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PART 5

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# PLANETARY FLIGHT HANDBOOK

## Part 5 – Trajectories to Jupiter, Ceres, and Vesta

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA SP-35
PART 5

# SPACE FLIGHT HANDBOOKS VOLUME III

# PLANETARY FLIGHT HANDBOOK

## Part 5 – Trajectories to Jupiter, Ceres, and Vesta

Prepared under contract
for NASA by Lockheed
Missiles and Space Company

*Scientific and Technical Information Division* 1966
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## FOREWORD

With the present volume, NASA adds to its Planetary Flight Handbook Series a set of important graphs and tables for planning probe flights to Jupiter and to the asteroids Ceres and Vesta within the decade 1970–1980. The continuing issuance of volumes within the present series serves not only to present practical data for performing mission analyses, but also to provide a means for standardizing the nomenclature and conventions used in trajectory analysis during the preliminary design of planetary missions.

This volume was prepared as a Company-sponsored project of the Lockheed Missiles & Space Company (LMSC), Sunnyvale, California, from data generated during the execution of the Asteroid Belt and Jupiter Flyby Mission Study for the Jet Propulsion Laboratory of Pasadena, California, under JPL Contract 950871 (Ref. 1).

The data contained herein were prepared by J. M. Deerwester, with the valuable assistance of M. A. Krop and J. Vosti, all of the Flight Mechanics Group of the LMSC Aerospace Sciences Laboratory. Sincere thanks are also due to W. T. O'Bryant of the Lunar and Planetary Programs Directorate, Office of Space Science and Applications, NASA Headquarters, and to B. D. Love of JPL for their kind permission and assistance in the publication of the volume; also to H. F. Thomae, Aeroballistics Laboratory, Marshall Space Flight Center, for advice and help supplied during the publication of the manuscript.

It is an honor to incorporate this volume as Part 5 of the NASA Planetary Flight Handbook.

Stanley Ross, Editor
Washington, D.C.
April 1965

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# SECTION 1

# INTRODUCTION

## Section 1
## INTRODUCTION

This Handbook contains a series of charts and tables of trajectory data associated with one-way trips from Earth to Jupiter and to the asteroids Ceres and Vesta for the time period 1970–1980. The remainder of the Handbook is divided into three sections. Section 2 contains hyperbolic excess speed contour charts. Section 3 presents the tabular trajectory data from which the contour charts were prepared. Section 4 contains planetary position and velocity data, including that of Earth, for the years 1969–2000. The format of the data contained in this Handbook is analogous to that employed in the Planetary Flight Handbook (Ref. 2). For those who may be unfamiliar with this format, a brief explanation of the data will be presented here.

### Speed Contour Charts

The horizontal and vertical scales represent the departure dates from Earth and the arrival dates at the target planet, respectively, measured in Julian days. The heavy solid line running diagonally up each chart, dividing the chart into two rather distinct regions, is the locus of points for which the heliocentric longitude of Earth at departure differs from the heliocentric longitude of the target at arrival by exactly 180 degrees. The average slope of this line is the ratio of Earth's mean motion to the target's mean motion, or about 11.9 to 1 for Jupiter, 4.67 to 1 for Ceres and 3.68 to 1 for Vesta. The small circle shown on this line denotes the passage of the target through Earth's heliocentric orbit plane, and also the passage of Earth through the target's heliocentric orbit plane. The date of the former event is read on the vertical scale; that of the latter is read on the horizontal scale. The contour lines represent hyperbolic excess speed requirements; the solid curves indicate Earth departure speeds and the dashed curves indicate arrival speeds. Note that the unit of speed is one-tenth Earth Mean Orbital Speed (EMOS).* The transformation from

*One EMOS is approximately 97, 700 ft/sec.

hyperbolic excess speed to speed near a planet at a particular radius is found from the energy equation. Figure 1-1 shows the impulsive velocity increments needed to place a vehicle, leaving a 100-nm circular Earth orbit, onto escape hyperbolas of various excess speeds. Figure 1-2 shows the vehicle speed near Jupiter for various radii and hyperbolic excess approach speeds.

Tabular Trajectory Data

Trajectory data from which the speed contour charts were prepared is presented in ten-day intervals at Earth and twenty-day intervals at the arrival body. The information is arranged in convenient columnar groupings. The dates are presented at the extreme left of each page. The remaining data are divided roughly into three sections, comprising (reading from left to right) six columns of parameters pertinent to the departure operation, six columns pertinent to the heliocentric phase, and six columns pertinent to the arrival operation. The departure and arrival groupings are each further subdivided into listings of sun-centered and planet-centered data. Hyperbolic excess speeds, which are generally of foremost preliminary concern, are placed as far toward the side margins as is possible, to facilitate rapid scanning. For each pair of departure and arrival dates, only trajectories having less than 360-degree heliocentric transfer angles are listed. Trajectories for which both the departure and arrival speeds exceed 0.65 EMOS are omitted.

The machine program used to generate the tables contains an internal ephemeris routine which treats all planetary orbits as eccentric, mutually inclined ellipses which are fixed in space. The orbital parameters adopted for the program have been extracted chiefly from the Explanatory Supplement to the British Ephemeris (Ref. 3), and are presented in Table 1-1; they are not purported to be the most accurate or up to date values obtainable for these constants; however, they are entirely in keeping with the fixed-ellipse model adopted for the calculations, and also with the limited-accuracy requirements for preliminary design data. Also shown are the synodic periods between each body and Earth.

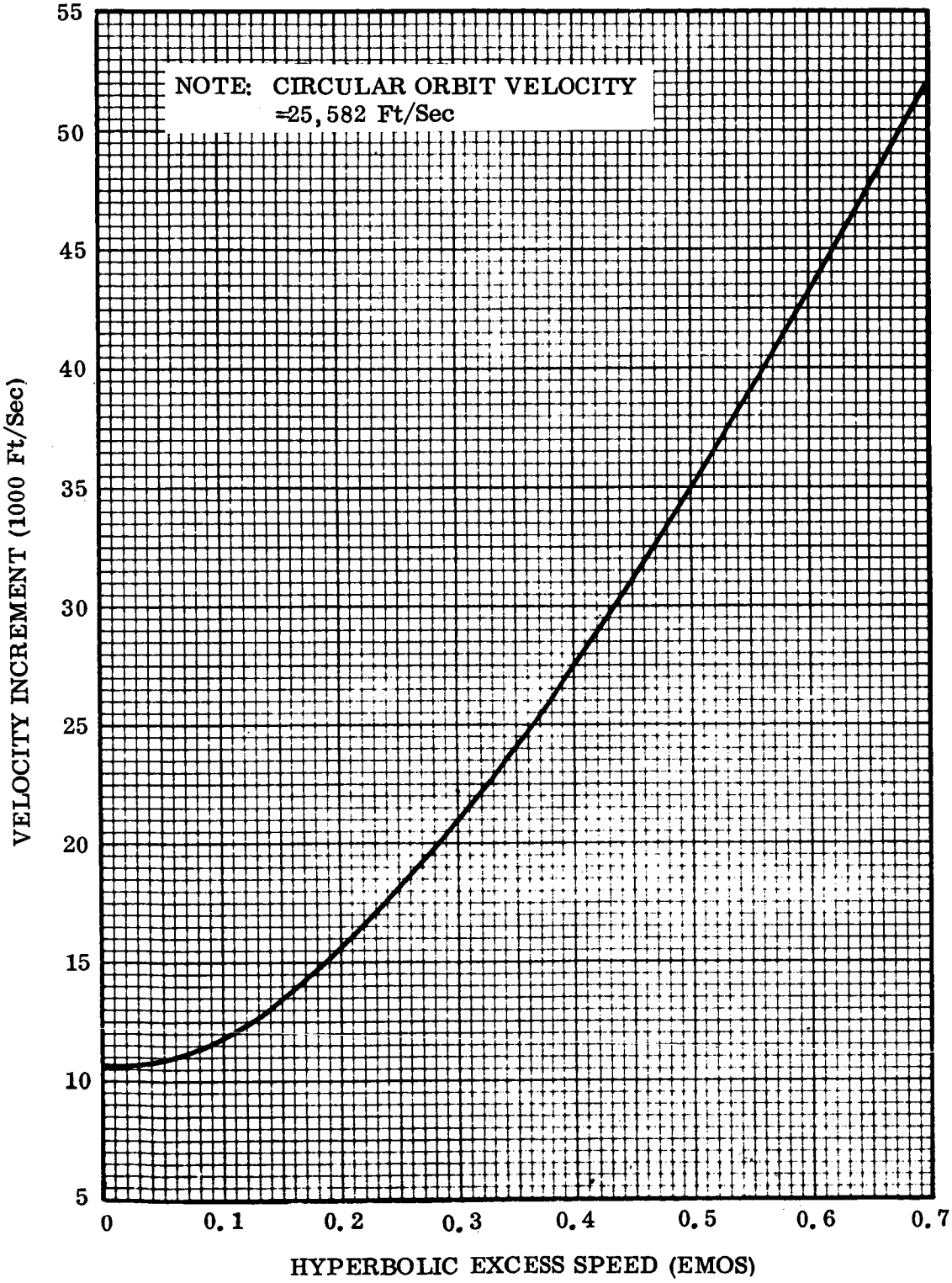


Fig. 1-1 Impulsive Velocity Increment from 100-nm Circular Earth Orbit

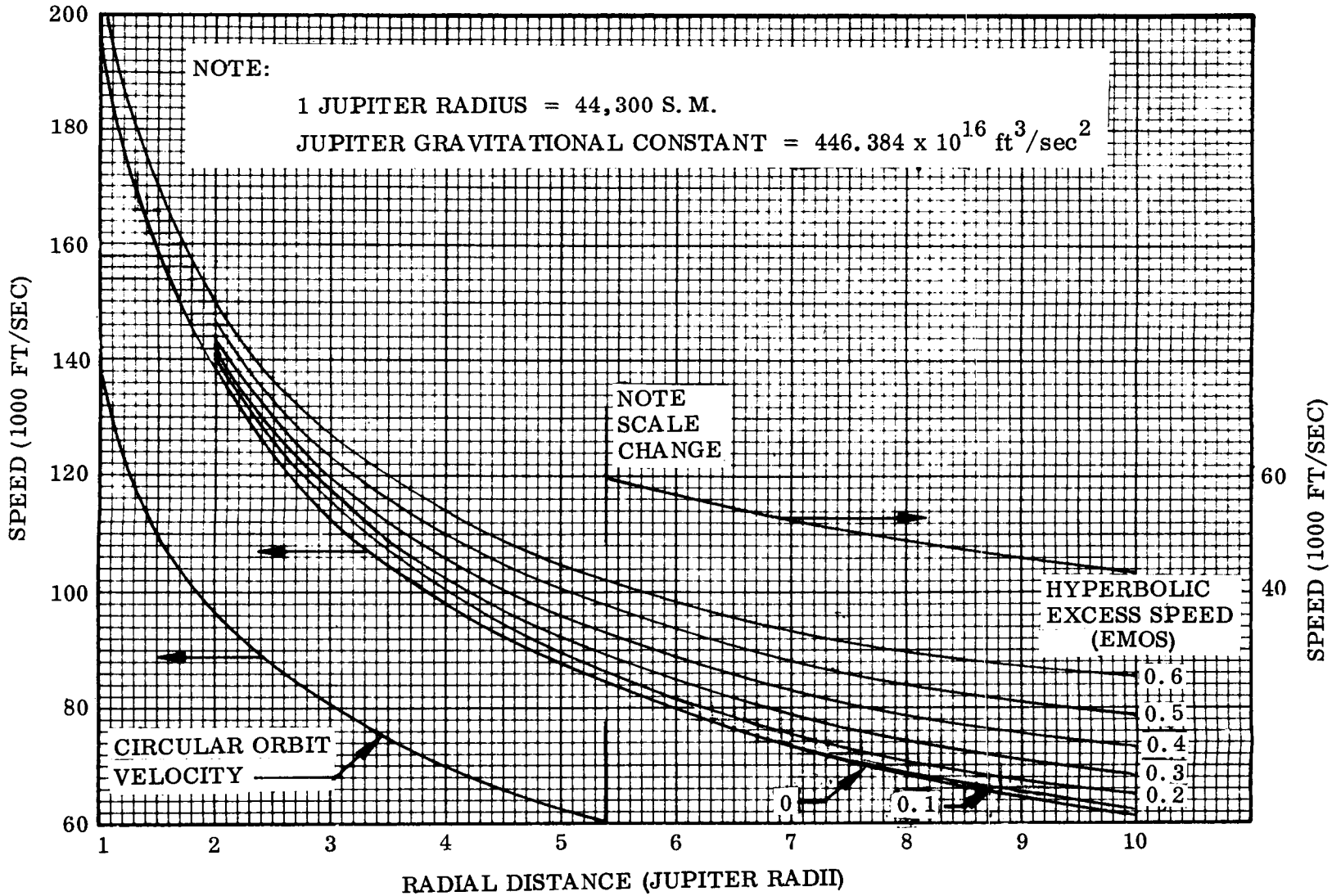


Fig. 1-2 Speed Near Jupiter

Table 1-1

ORBITAL ELEMENTS

| | Earth | Jupiter | Ceres | Vesta |
|---|---|---|---|---|
| Inclination to Ecliptic (deg) | 0.0 | 1.305 | 10.607 | 7.132 |
| Longitude of Ascending Node (deg) | 0.0 | 100.044 | 80.514 | 104.102 |
| Longitude of Perihelion (deg) | 102.252 | 13.678 | 152.367 | 253.236 |
| Semi-Major Axis (AU) | 1.0000 | 5.2028 | 2.7675 | 2.3617 |
| Mean Motion (deg/day) | 0.98561 | 0.08309 | 0.21408 | 0.27157 |
| Eccentricity | 0.01673 | 0.04844 | 0.07590 | 0.08888 |
| Mean Longitude (deg) | 100.158 | 259.831 | – | – |
| Mean Anomaly (deg) | – | – | 279.880 | 79.667 |
| Synodic Period (days) | – | 399 | 466 | 503 |

The mean longitudes of Earth and Jupiter are for the epoch 1960 January $1.5^h$ E. T.
The mean anomalies of Ceres and Vesta are for the epoch 1957 June 11 $0^h$ E. T.

The following is a list of definitions for the parameters contained in the tabular data.

| Column | Symbol | Explanation |
|---|---|---|
| 1 | DEPART | Julian date of departure; reckoned from JD 240-0000. |
| 2 | ARRIVE | Julian date of arrival; reckoned from JD 240-0000. |
| 3 | SPEED | Magnitude (speed) of hyperbolic excess departure velocity vector, normalized to Earth's mean orbital speed. |
| 4 | R A | Right ascension of hyperbolic excess departure velocity vector (hyperbolic asymptote); measured in degrees along the local planetary equator eastward from the "vernal equinox," i.e., where the Sun's path rises above the departure planet's equator. For each asteroid, since the orientation of the North Pole is unknown, the equator has been assumed coplanar with the orbit, and the "vernal equinox" is taken in the direction of its orbital perihelion. |
| 5 | DECL | Declination of hyperbolic excess departure velocity vector, measured in degrees positively northward and negatively southward from the planet's equator. |

| Column | Symbol | Explanation |
|---|---|---|
| 6 | I 1 | Inclination of transfer orbit to departure planet's orbit, in degrees; zero is forward, $-90°$ is perpendicular southward, $+90°$ is perpendicular northward, and $\pm 180°$ is backward. |
| 7 | V 1 | Heliocentric speed of departure, normalized to Earth's mean orbital speed. |
| 8 | PSI 1 | Heliocentric angle of departure, in degrees; measured counter-clockwise from the outward heliocentric radius vector to the departure velocity vector in the transfer plane (see Figure 1-3). |
| 9 | ECCEN | Eccentricity of heliocentric transfer orbit. |
| 10 | SMA | Semi-major axis of the transfer conic, in AU. |
| 11 | THET 1 | True anomaly of departure point, measured in the transfer orbit in degrees, reduced to $0 \leq \theta_1 \leq 360°$ (see Figure 1-3). |
| 12 | THET 2 | True anomaly of arrival point measured in the transfer orbit, in degrees; THET 2 minus THET 1 equals the heliocentric transfer angle L (see Figure 1-3). |
| 13 | PERIH | Perihelion distance of the transfer conic, in AU. This value is listed only if the vehicle traverses the perihelion during the transfer. |
| 14 | APHEL | Aphelion distance of the transfer conic, in AU. This value is listed only if the vehicle traverses the aphelion during the transfer. |
| 15 | I 2 | Inclination of transfer orbit to arrival planet's orbit, in degrees; if approach is directly from the rear (i.e., the arrival vector points in the same direction as the planet's motion), then I 2 = 0°, etc. |
| 16 | V 2 | Heliocentric arrival speed, normalized to Earth's mean orbital speed. |
| 17 | PSI 2 | Heliocentric angle of arrival, in degrees, measured clockwise from the inward heliocentric radius vector to the arrival velocity vector in the transfer plane (see Figure 1-3). Note that this angle is measured opposite in sense to PSI 1. |

| Column | Symbol | Explanation |
|---|---|---|
| 18 | R A | Analogous to departure velocity case; note, however, that this is the right ascension of the position at which the arrival velocity vector would emerge again from the planet's celestial sphere. This convention for reckoning asymptote directions is useful when calculating flyby or swingby trips. When the trajectory is unperturbed by the target planet, the approach and departure asymptotes have exactly the same right ascensions and declinations. By noting the discrepancies between the two asymptotes in other cases, the analyst may obtain a rough but rapid estimate of the bend angle without performing trigonometric calculations. |
| 19 | DECLIN | Declination of the position at which the arrival velocity vector would emerge again from the planet's celestial sphere. |
| 20 | SPEED | Magnitude (speed) of hyperbolic excess arrival velocity vector, normalized to Earth's mean orbital speed. |

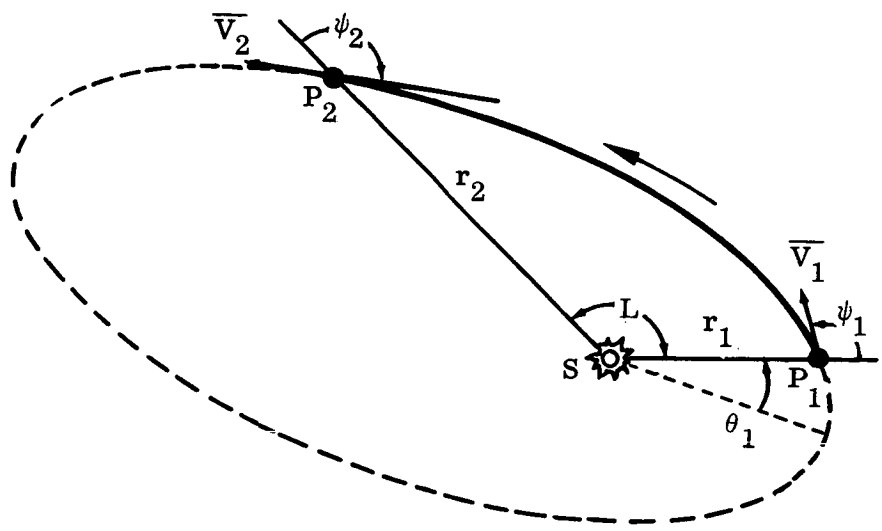


Fig. 1-3 Relationships in the Transfer Plane

## Planetary Positions and Velocities

The data presented in the tables are the positions and velocities of the Earth-Moon barycenter, Jupiter, Ceres, and Vesta for the years 1969 to 2000 inclusive. The reference axes XYZ form a nonrotating three-dimensional Cartesian axis system, which is based on the ecliptic and mean equinox of 1950.0. The three axes are defined as follows:

- X is the direction of the mean vernal equinox of 1950.0.
- Y is the plane of the ecliptic of 1950.0, 90 degrees in the advance direction from X.
- Z is normal to the ecliptic plane and forms a right-hand triad with X and Y (positive northward).

Positional information is presented in spherical coordinates L, B, and R, which are also defined relative to the ecliptic and mean equinox of 1950.0 as follows:

- L is the celestial longitude measured in the ecliptic from the mean vernal equinox in a right-hand sense about the Z-axis.
- B is the celestial latitude measured from the ecliptic (positive northward).
- R is the radial distance from the Sun.

The communication distances between each body and the Earth-Moon barycenter are listed in the next-to-the-last column.

The position and velocity data for the asteroids were calculated from constant orbital elements listed in Ref. 3 by use of the standard Keplerian orbital equations contained in a planetary positions computer program (Ref. 4). The number of significant figures appearing in the tables is indicative of the precision of the source data, which are given to four or five digits. However, the accuracy of the fourth significant figure is questionable due to secular and periodic perturbations.

The position and velocity data for Earth and Jupiter were calculated from mean orbital elements which are considered to vary linearly with the date. Positions of Earth in the table agree with the precise values in Ref. 5 to within ± 2 of the fourth significant figure; positions of Jupiter, to within ± 2 of the third significant figure. For the purpose of specifying absolute angular accuracy, the quoted relative accuracies should be applied to an angle of one radian.

## REFERENCES


1. Asteroid Belt and Jupiter Flyby Mission Study – Final Report. Lockheed Missiles & Space Company Report, LMSC-M-49-65-1, 28 Feb 1965, JPL Contract 950871.

2. Space Flight Handbook, Vol. 3, Planetary Flight Handbook, NASA SP-35, prepared for the George C. Marshall Space Flight Center, 1963.

3. Nautical Almanac Offices of the United Kingdom and the United States of America, Explanatory Supplement to the Astronomical Ephemeris and the American Ephemeris and Nautical Almanac, London, Her Majesty's Stationery Office, 1961.

4. H. F. Michielsen and M. A. Krop, Development of a Computer Subroutine for Planetary and Lunar Positions, WADD Technical Report 60-118, Sunnyvale, California, Lockheed Missiles & Space Division (for Wright Air Development Division, Wright-Patterson Air Force Base, Ohio), August 1960.

5. H. M. Nautical Almanac Office, Planetary Coordinates for the years 1960-1980 Referred to the Equinox of 1950.0, Her Majesty's Stationery Office, 1958.

# SECTION 2

# HYPERBOLIC EXCESS SPEED CONTOUR CHARTS

EARTH-JUPITER HYPERBOLIC EXCESS SPEED

CONTOUR CHARTS

FOR THE YEARS 1970-1980

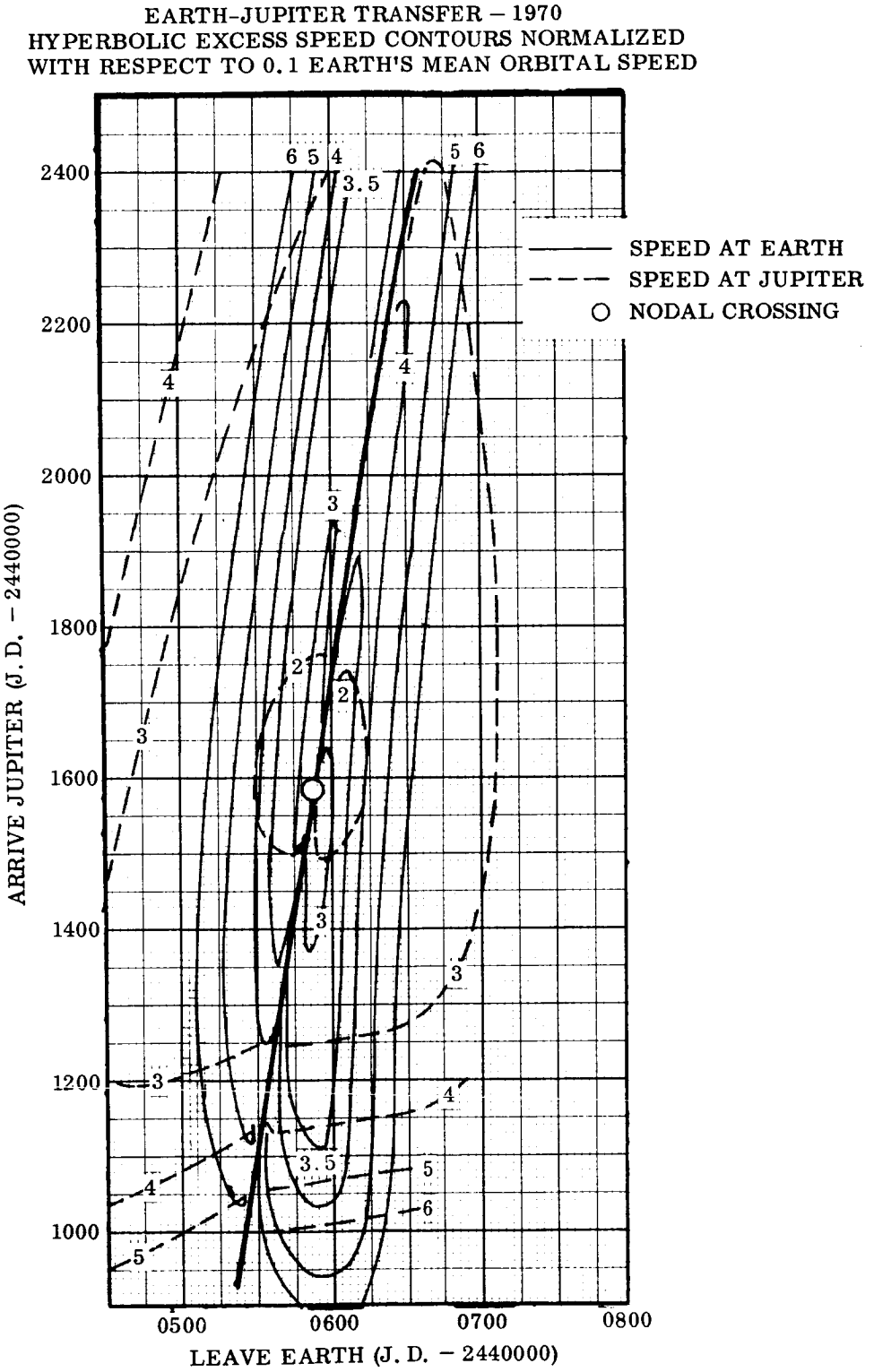


Fig. 2-1 Earth-Jupiter Transfer (1970)

EARTH-JUPITER TRANSFER - 1971
HYPERBOLIC EXCESS SPEED CONTOURS NORMALIZED
WITH RESPECT TO 0.1 EARTH'S MEAN ORBITAL SPEED

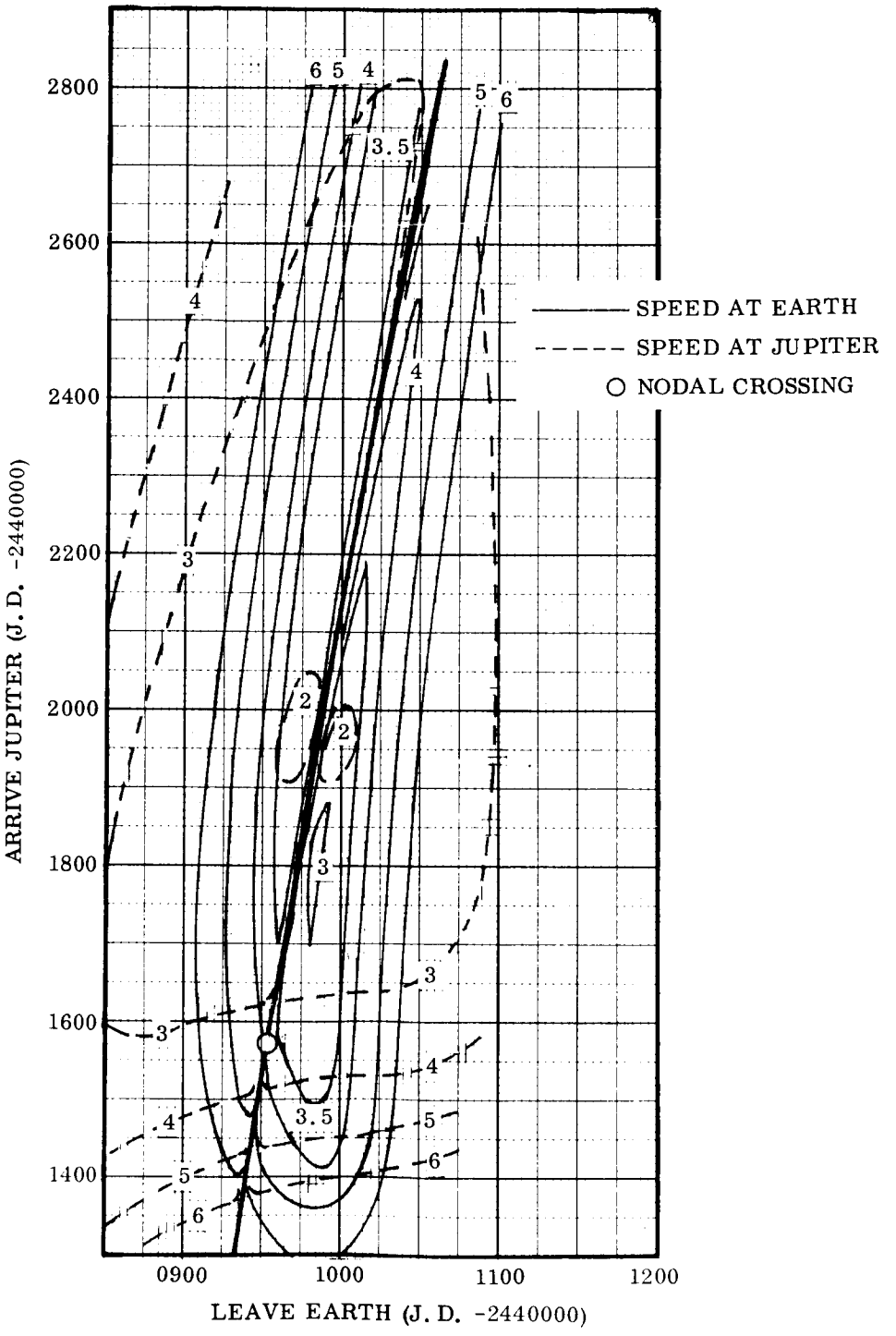


Fig. 2-2 Earth-Jupiter Transfer (1971)

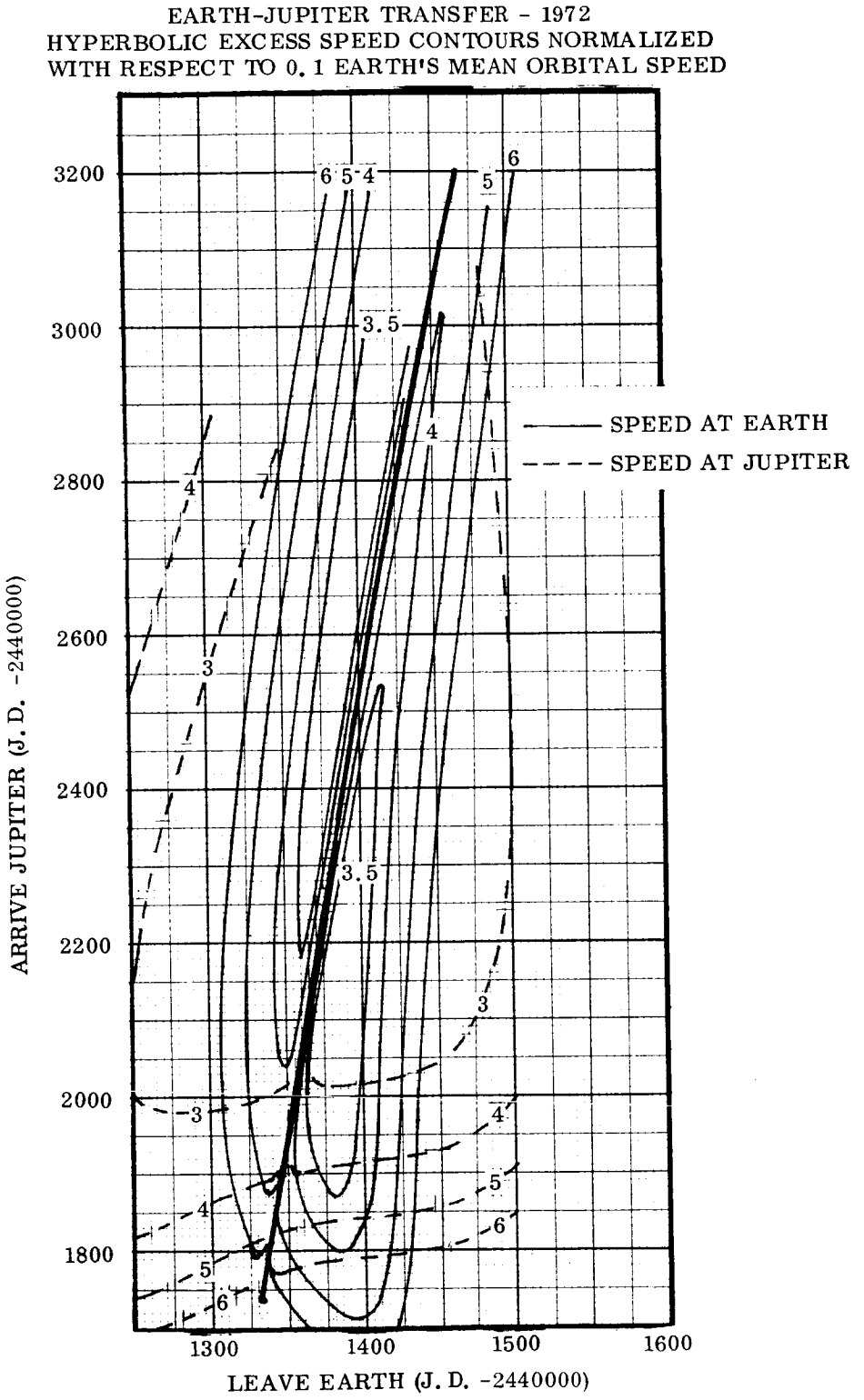


Fig. 2-3 Earth-Jupiter Transfer (1972)

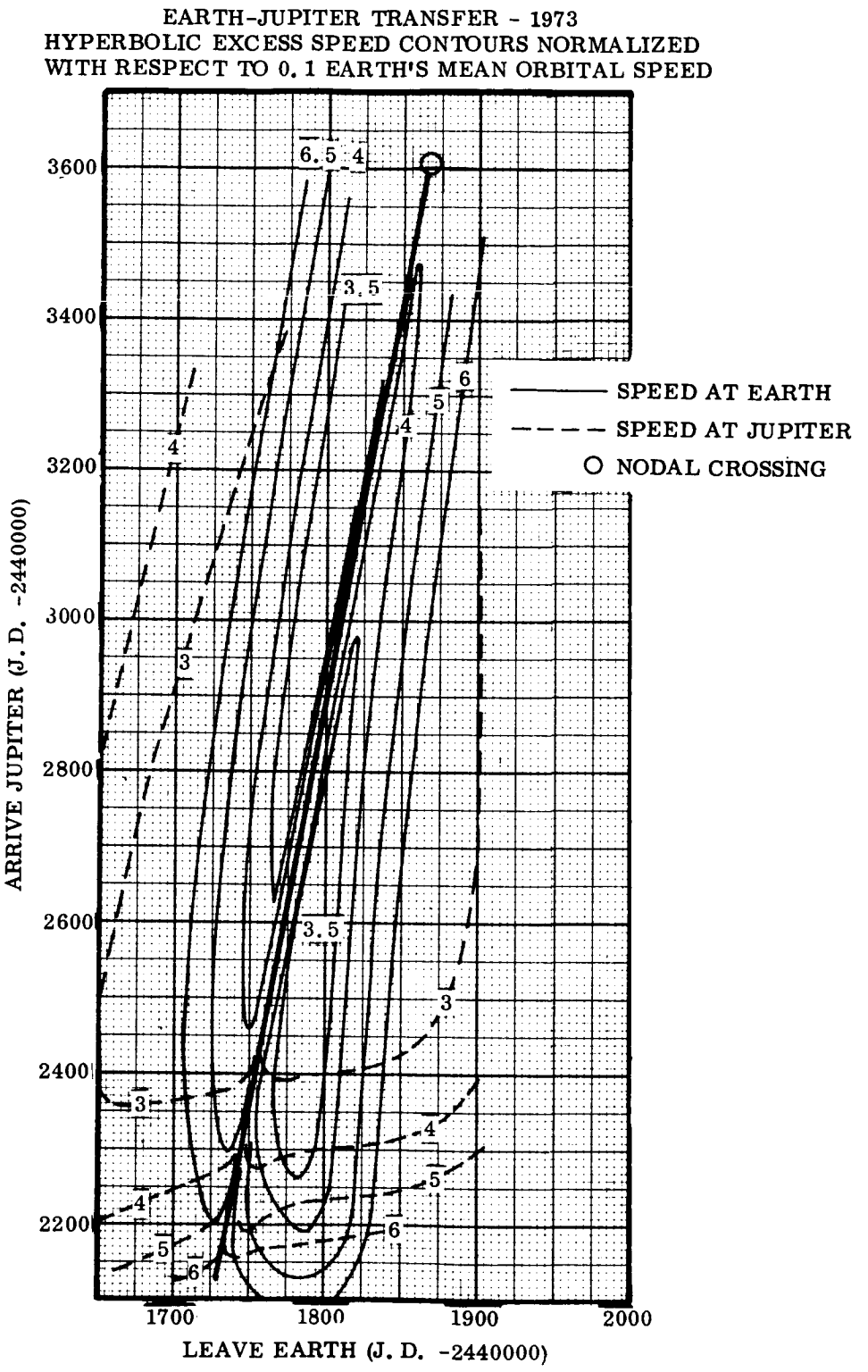


Fig. 2-4 Earth-Jupiter Transfer (1973)

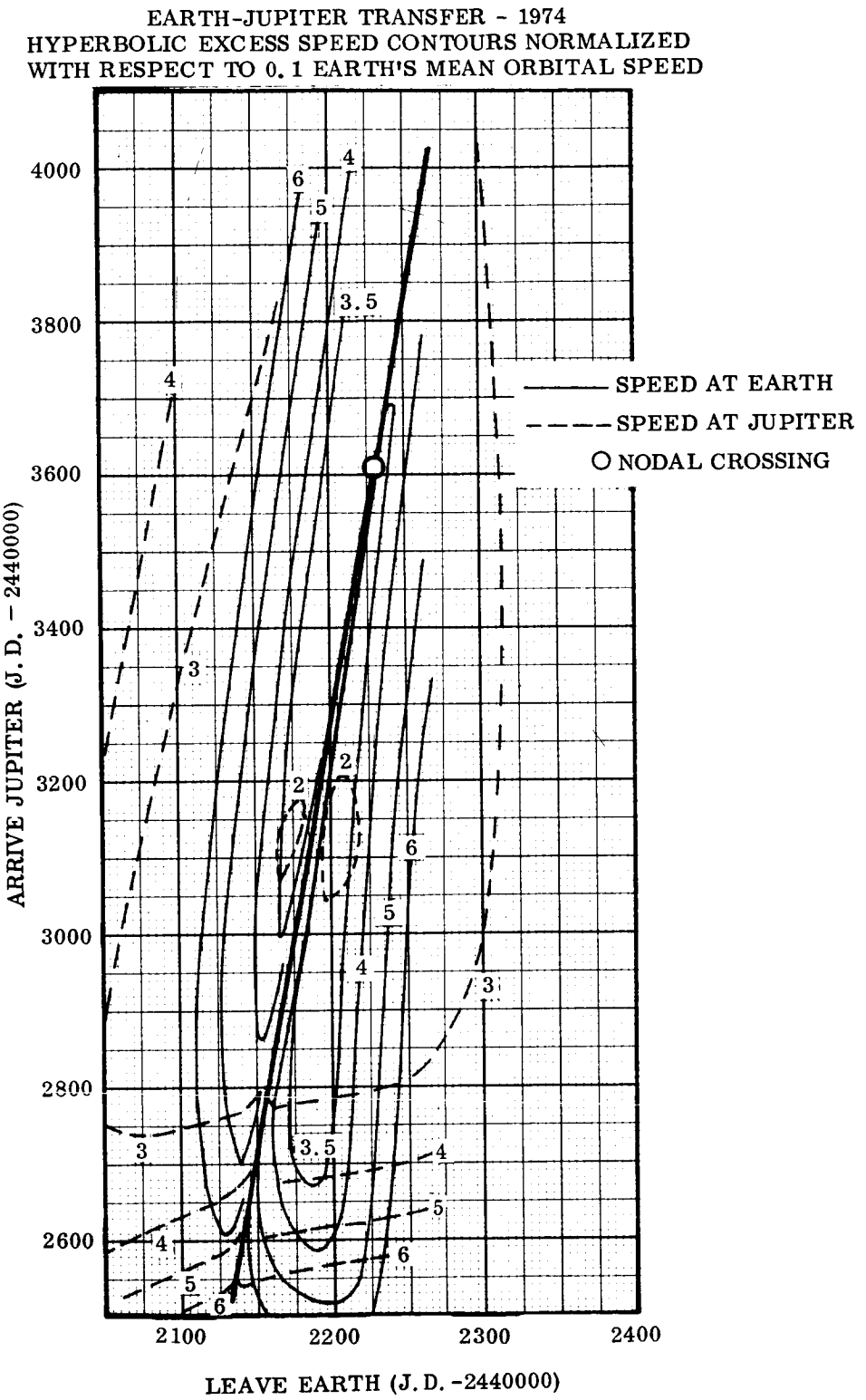


**Fig. 2-5 Earth-Jupiter Transfer (1974)**

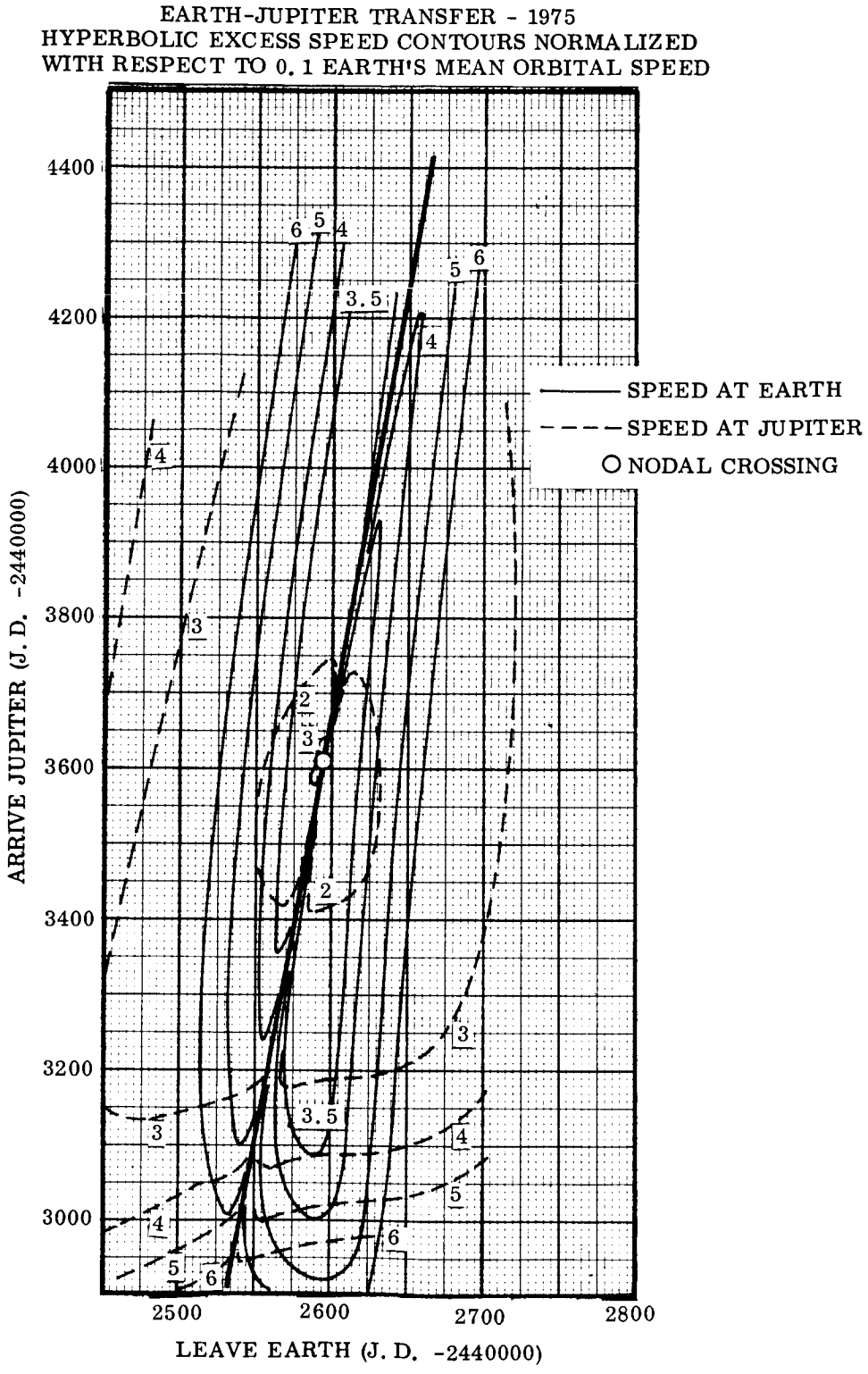


Fig. 2-6 Earth-Jupiter Transfer (1975)

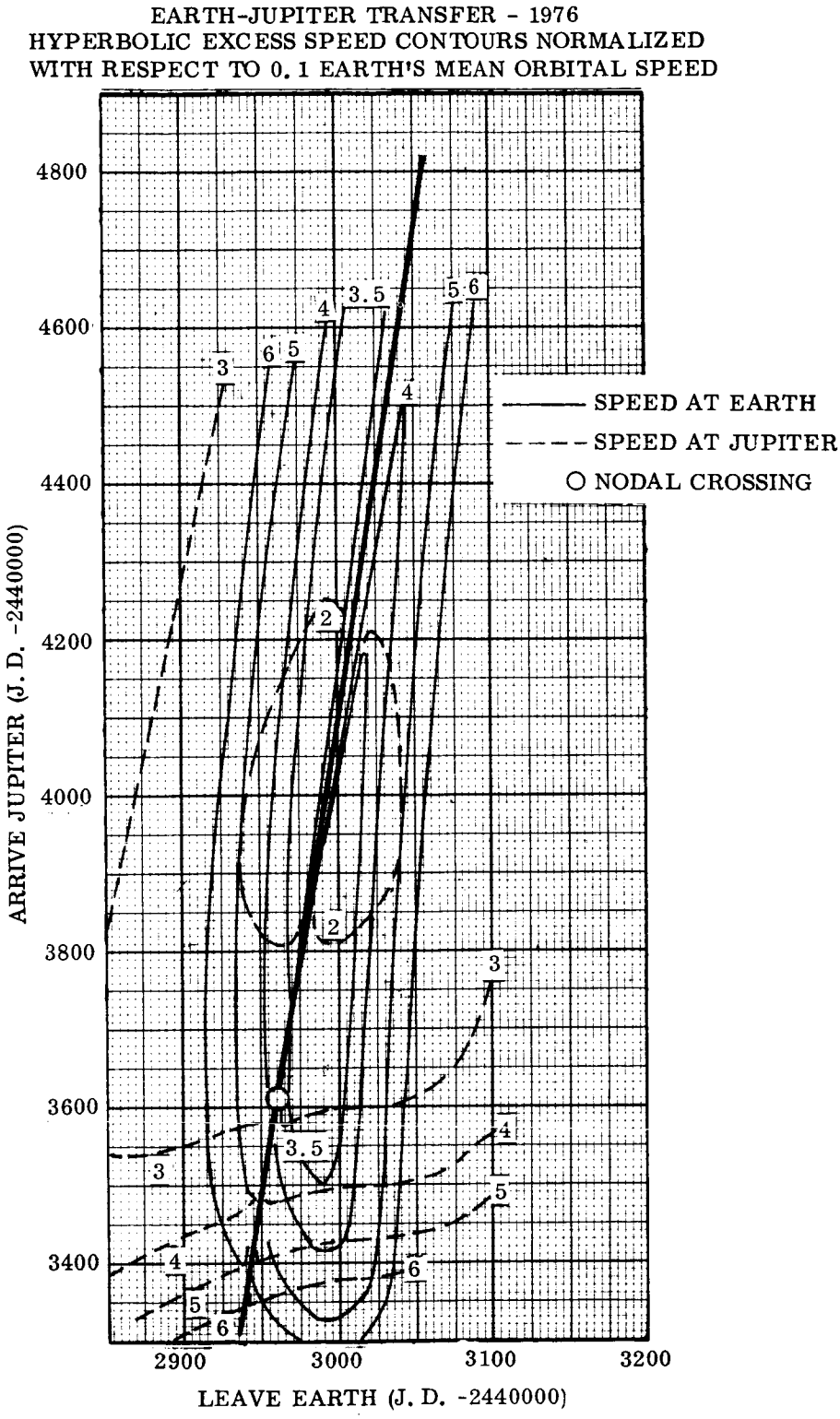


Fig. 2-7 Earth-Jupiter Transfer (1976)

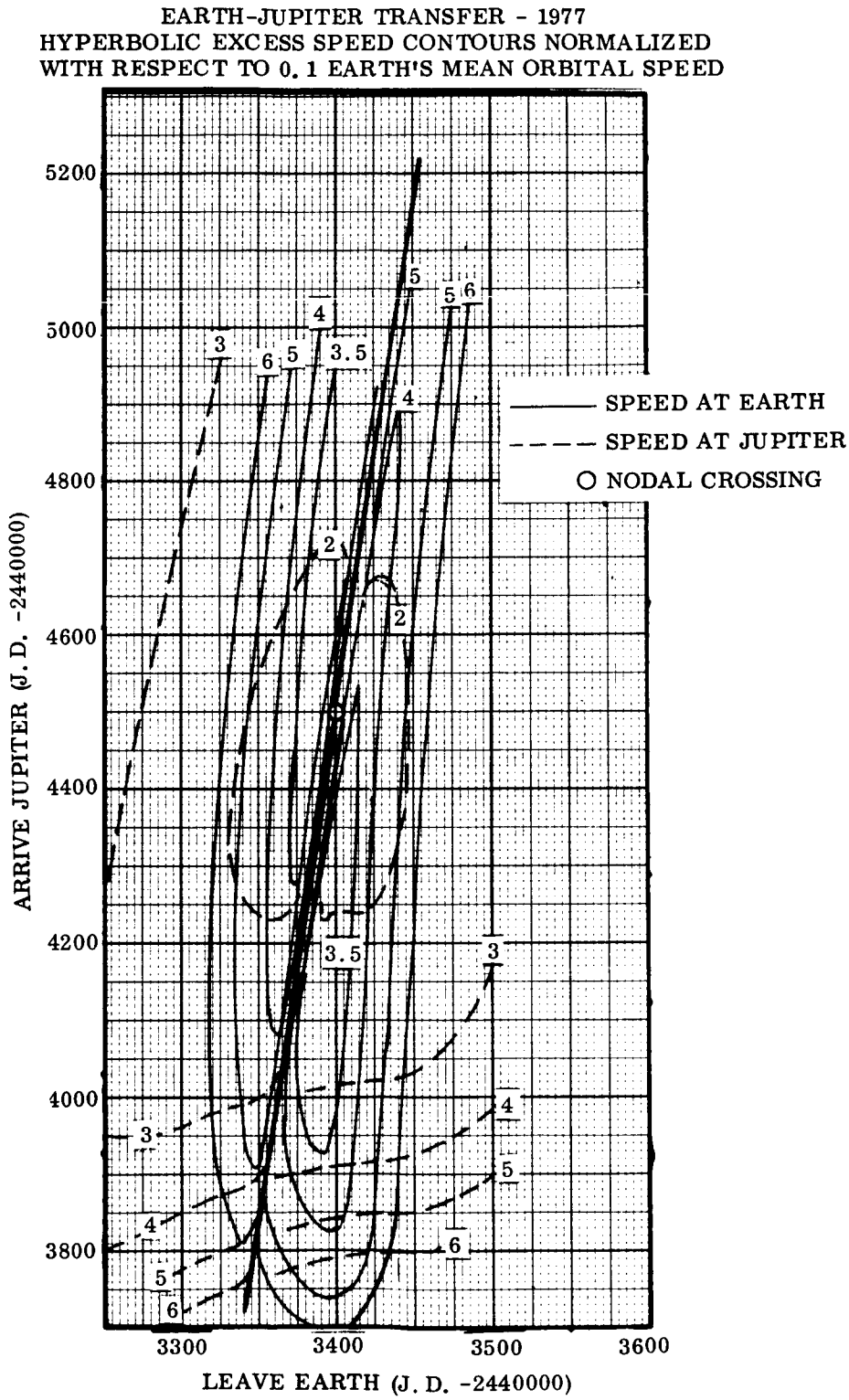


Fig. 2-8 Earth-Jupiter Transfer (1977)

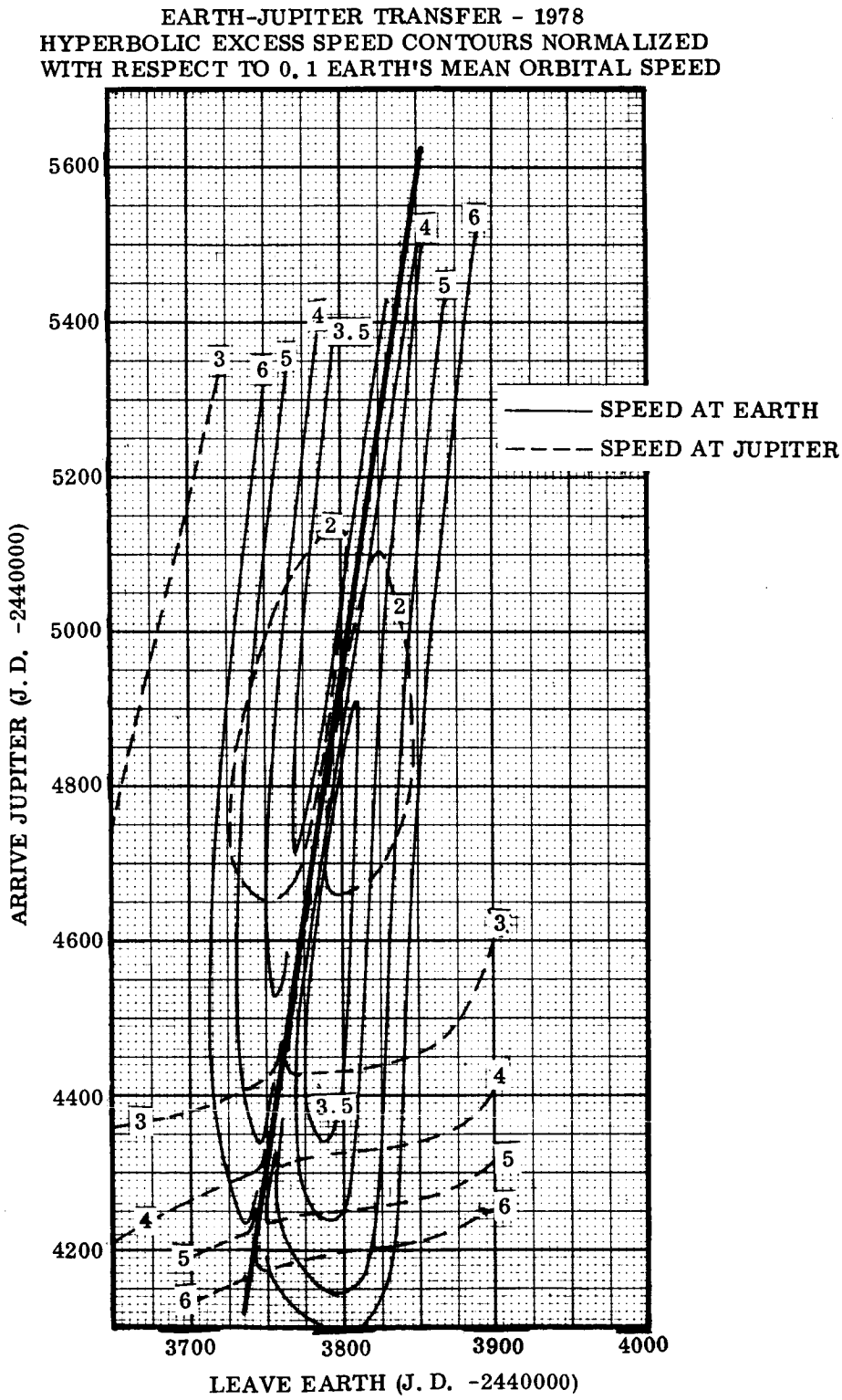


Fig. 2-9 Earth-Jupiter Transfer (1978)

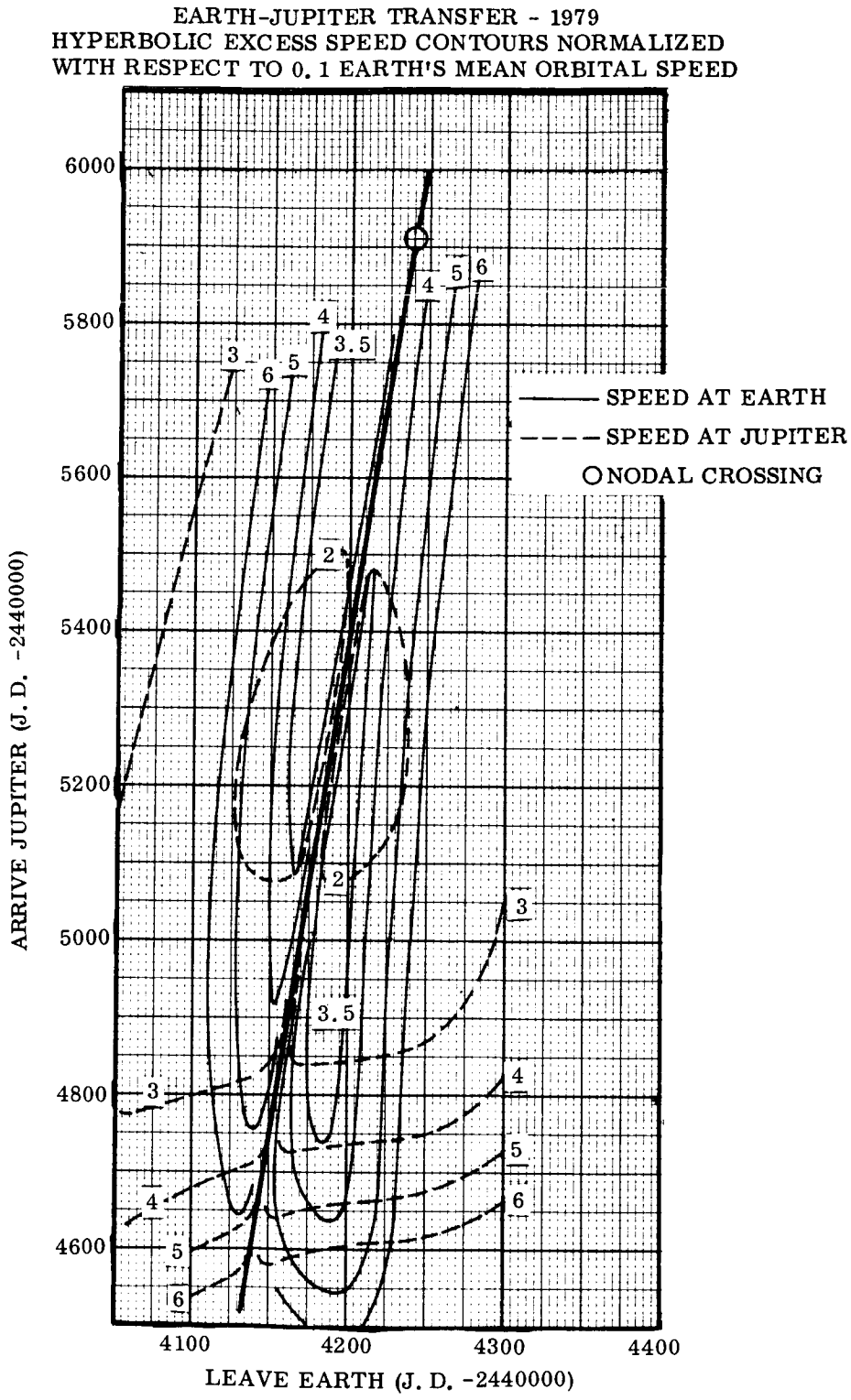


Fig. 2-10 Earth-Jupiter Transfer (1979)

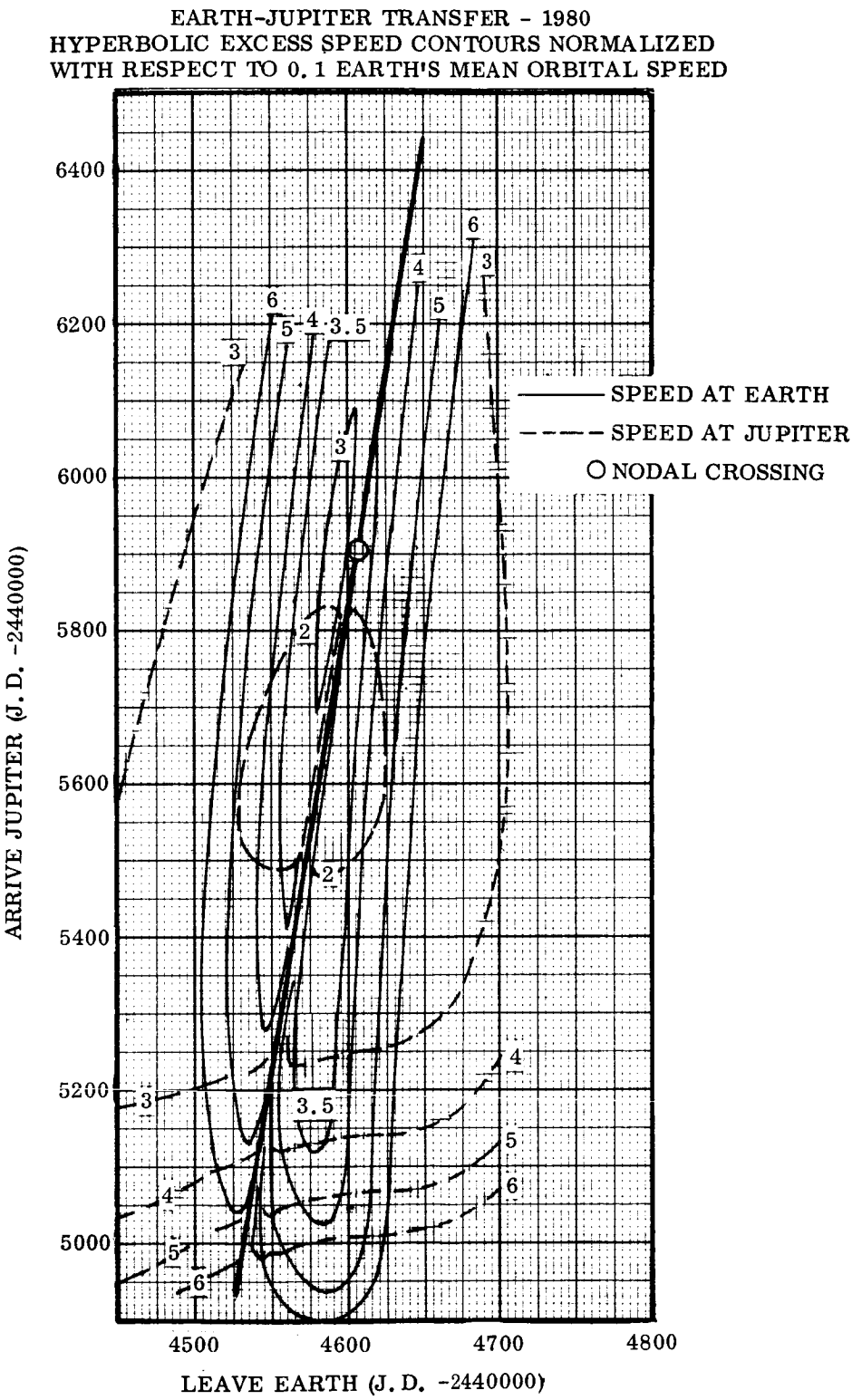


Fig. 2-11 Earth-Jupiter Transfer (1980)

# EARTH-CERES HYPERBOLIC EXCESS SPEED

# CONTOUR CHARTS

# FOR THE YEARS 1970-1980

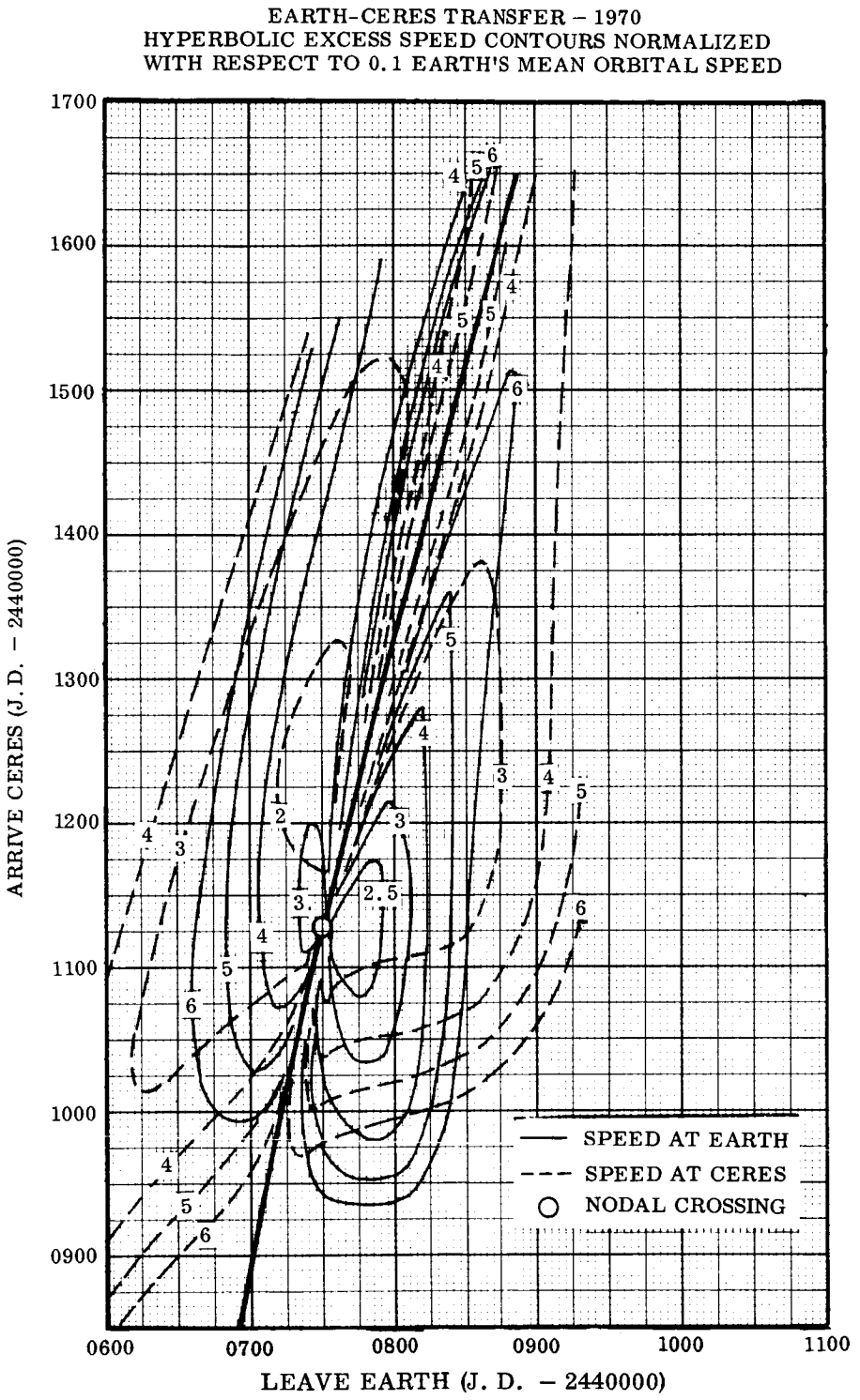


**Fig. 2-12 Earth-Ceres Transfer (1970)**

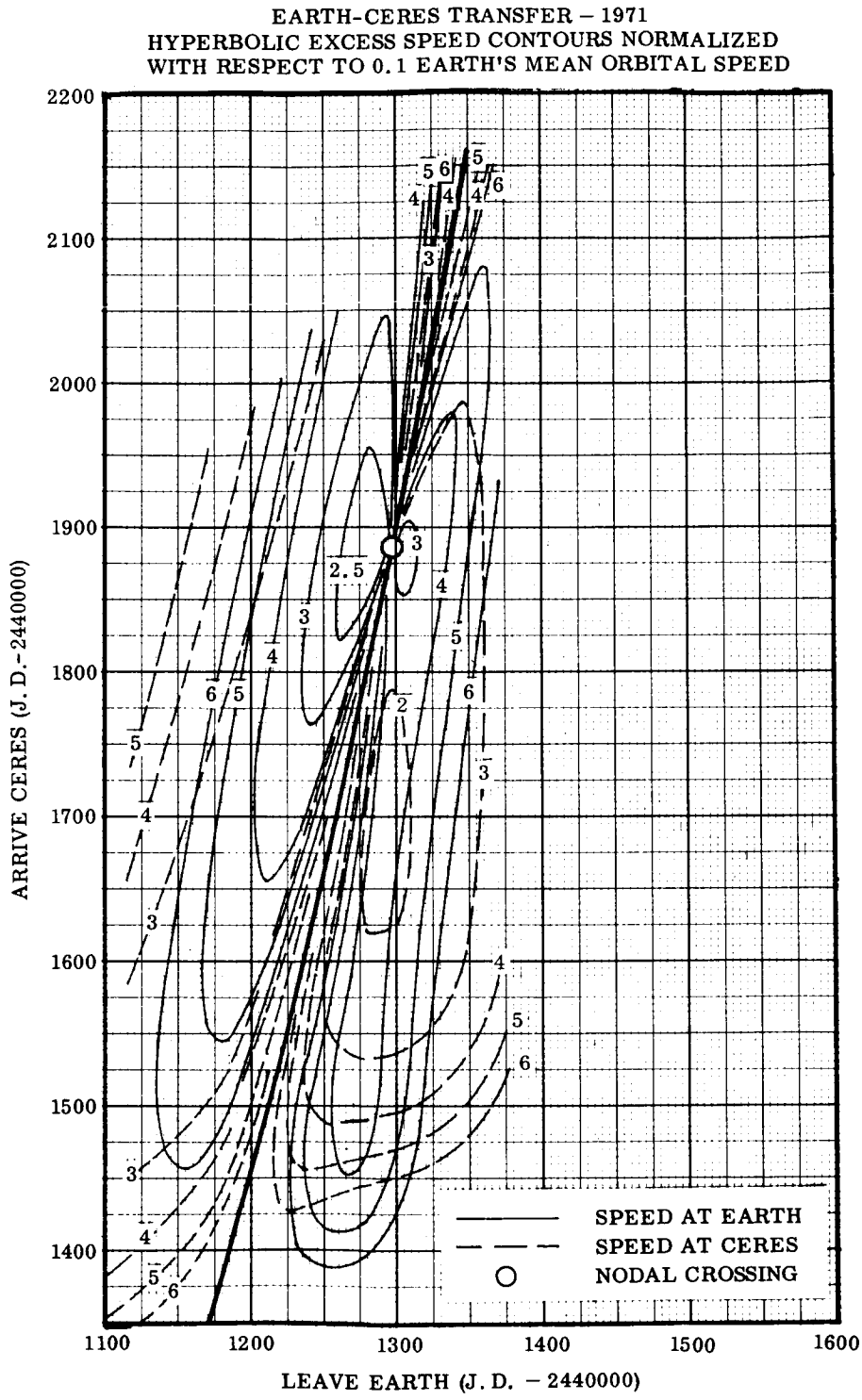


Fig. 2-13 Earth-Ceres Transfer (1971)

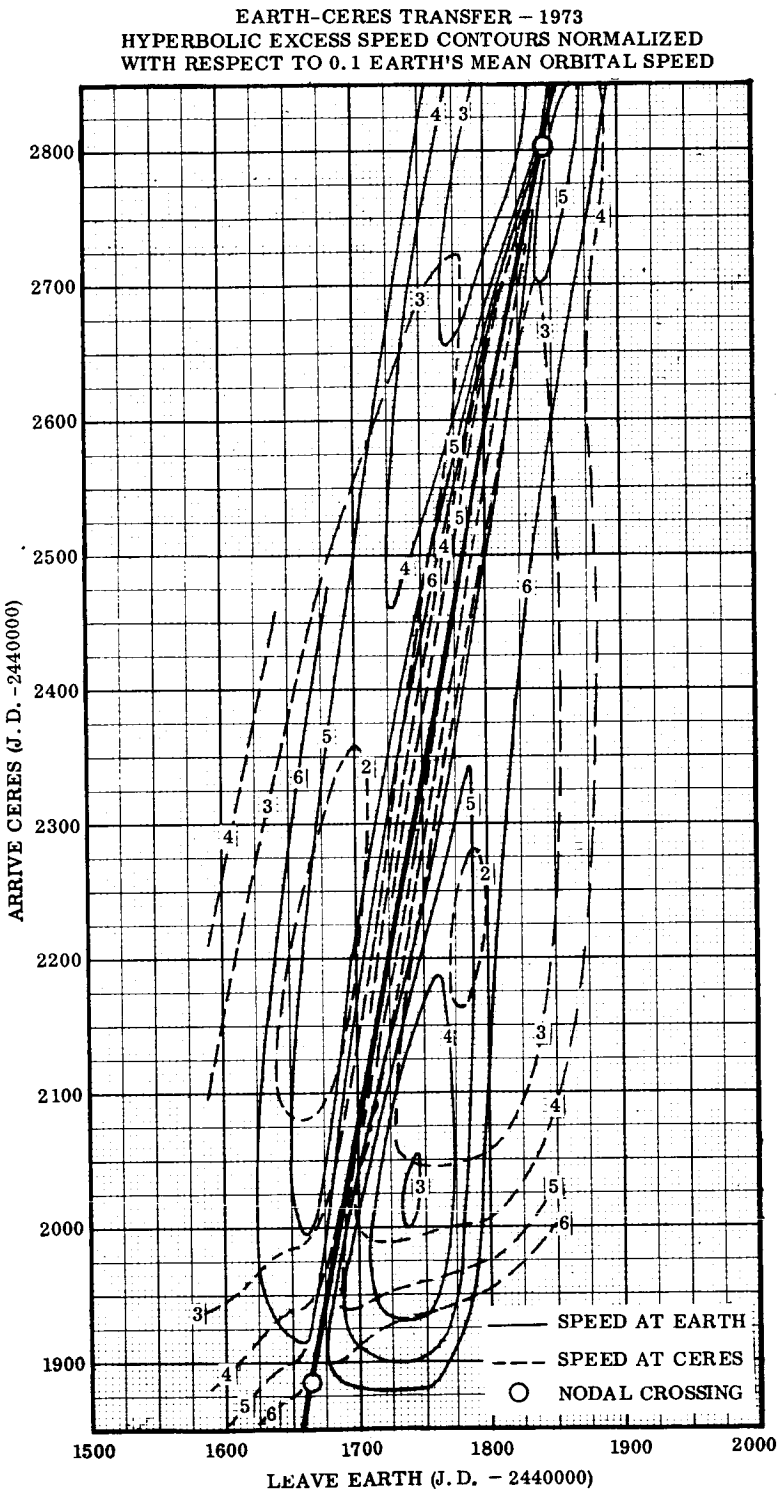


Fig. 2-14 Earth-Ceres Transfer (1973)

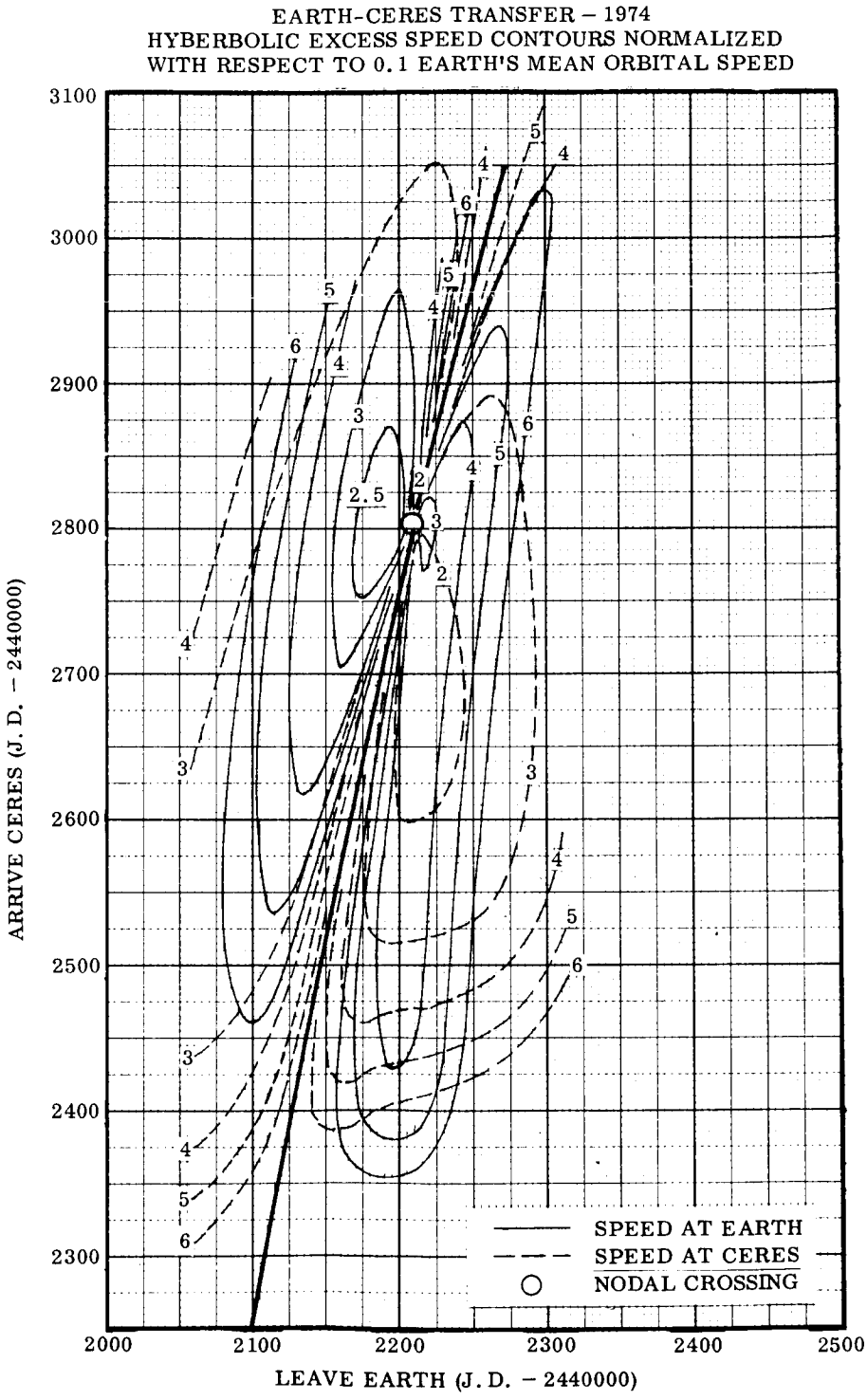


Fig. 2-15 Earth-Ceres Transfer (1974)

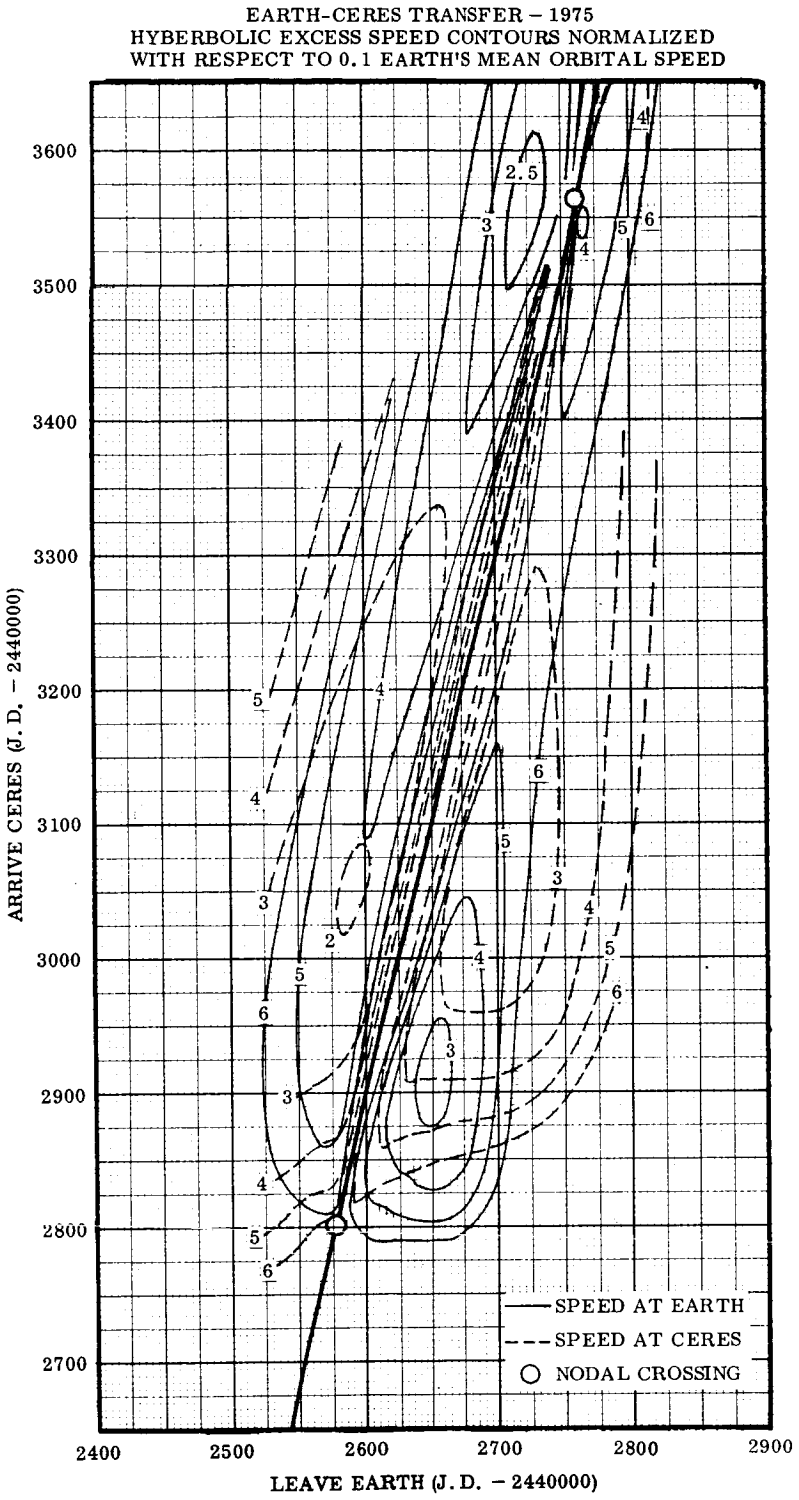


Fig. 2-16 Earth-Ceres Transfer (1975)

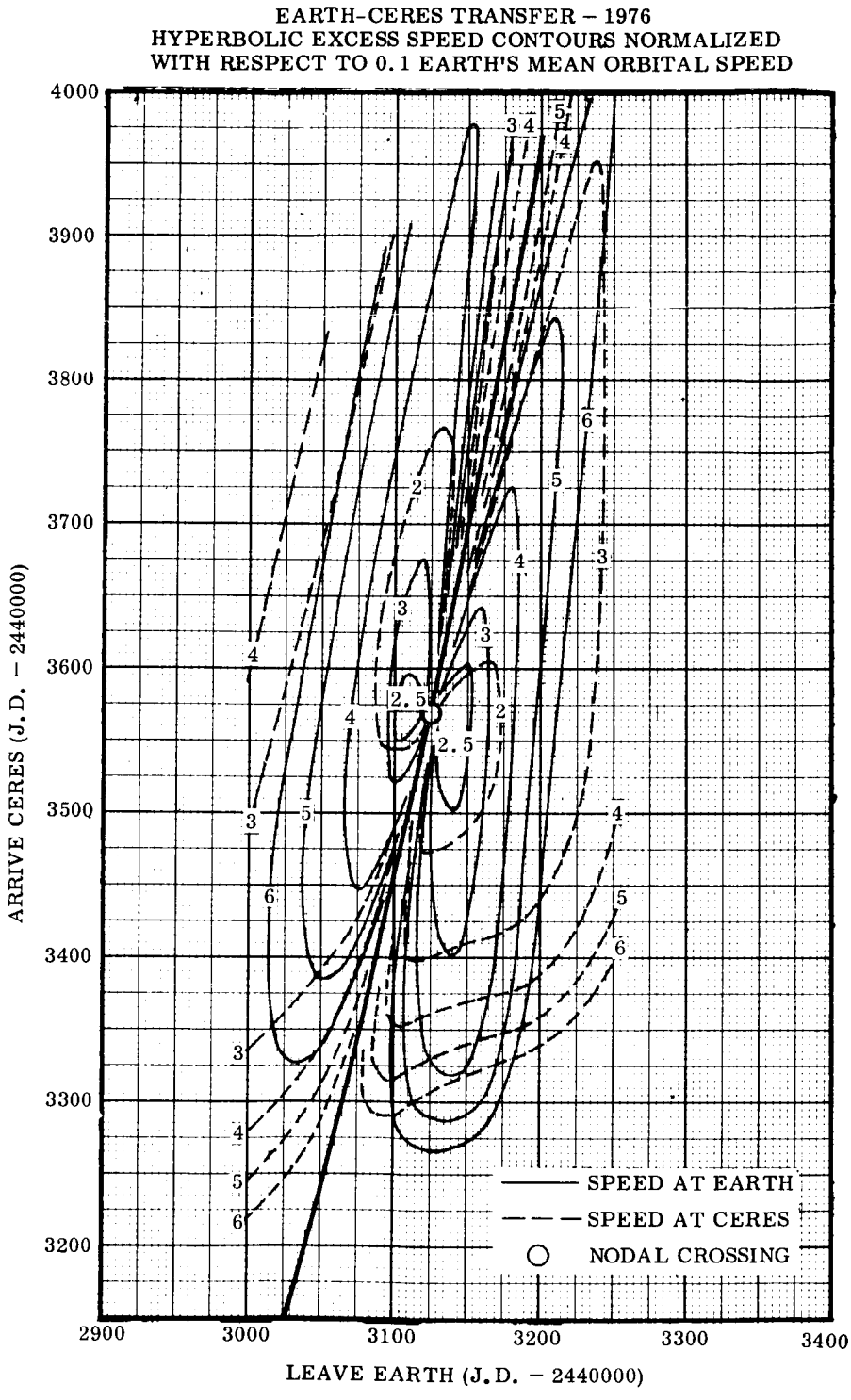


Fig. 2-17 Earth-Ceres Transfer (1976)

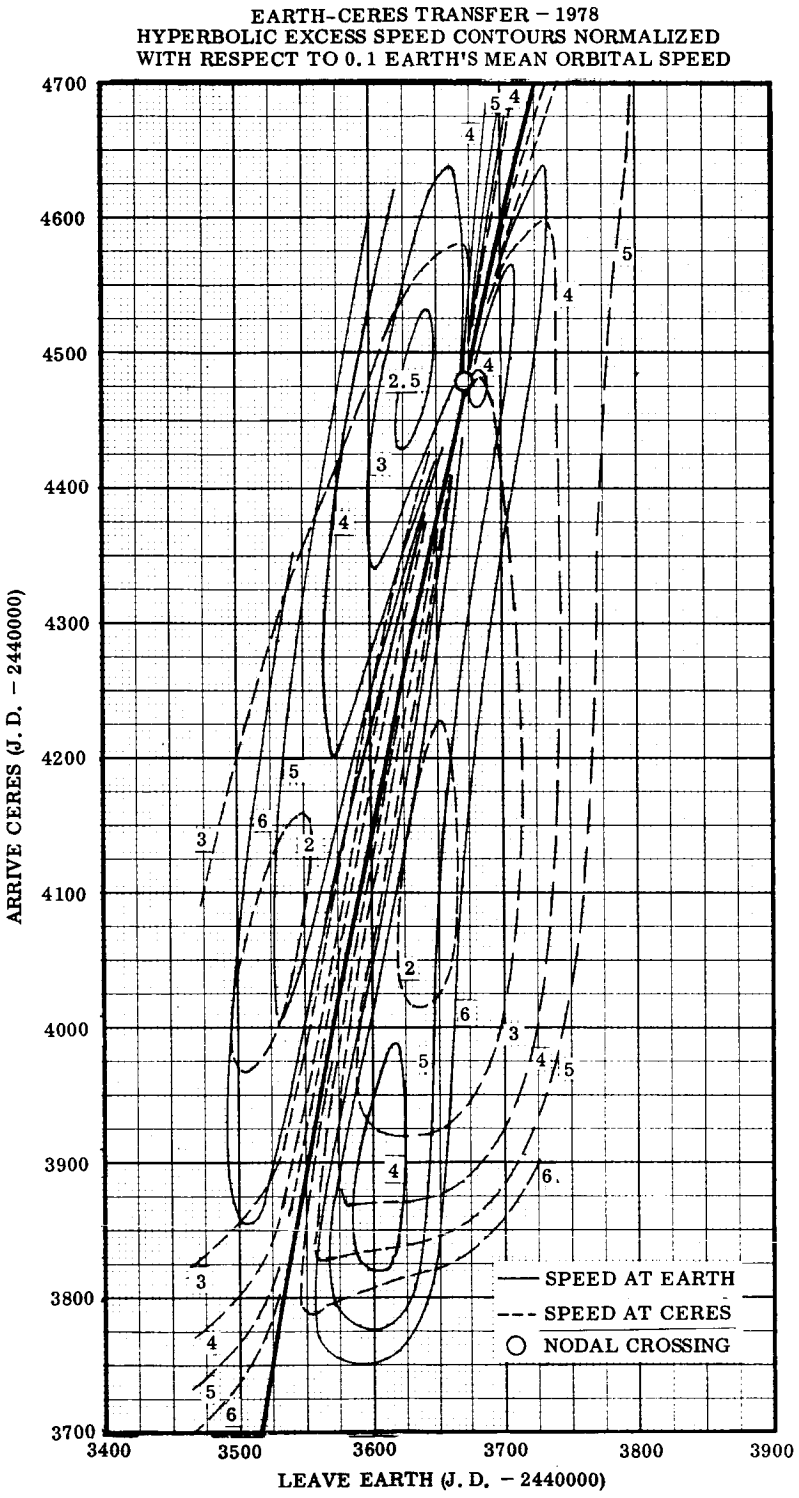


Fig. 2-18 Earth-Ceres Transfer (1978)

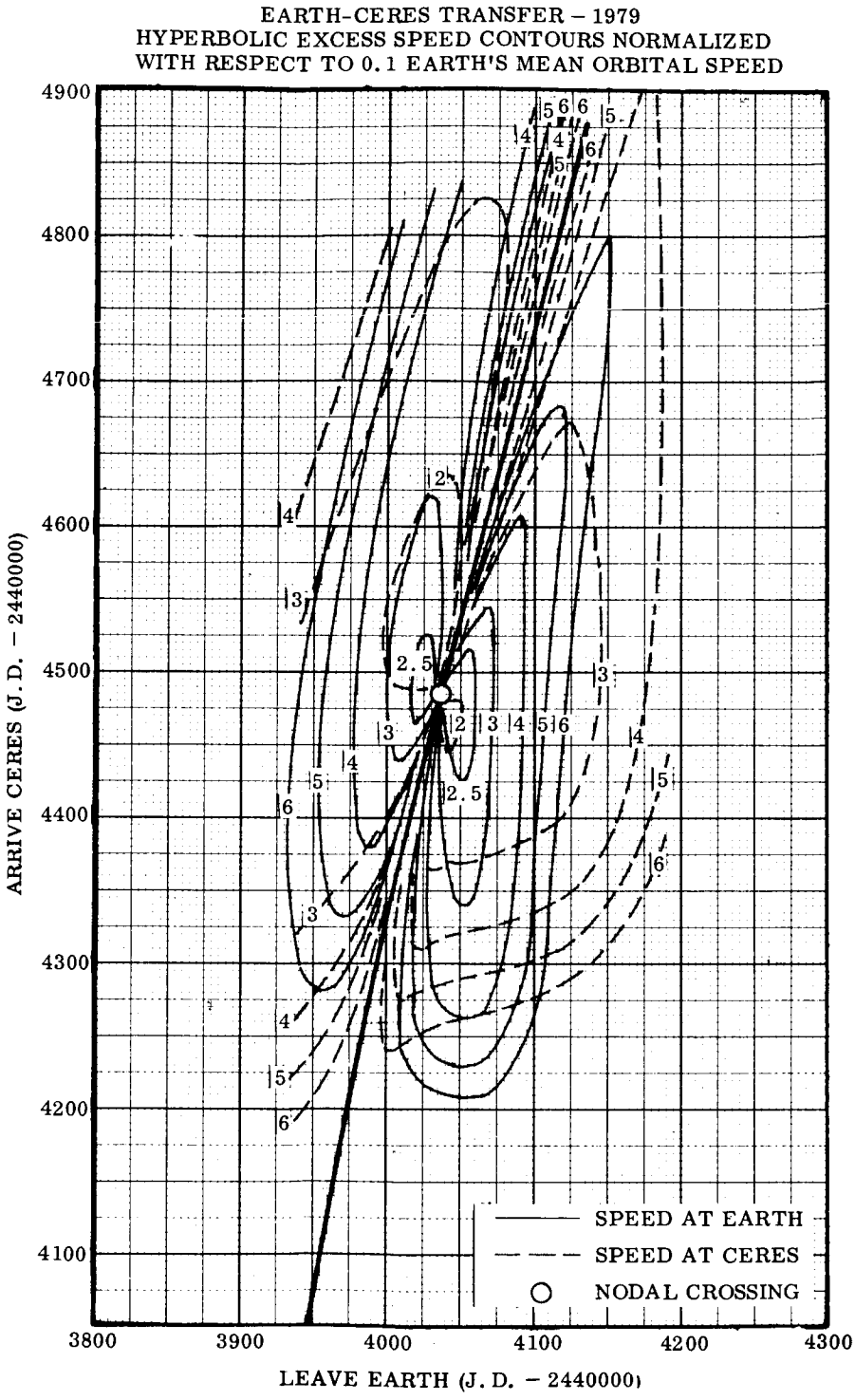


Fig. 2-19 Earth-Ceres Transfer (1979)

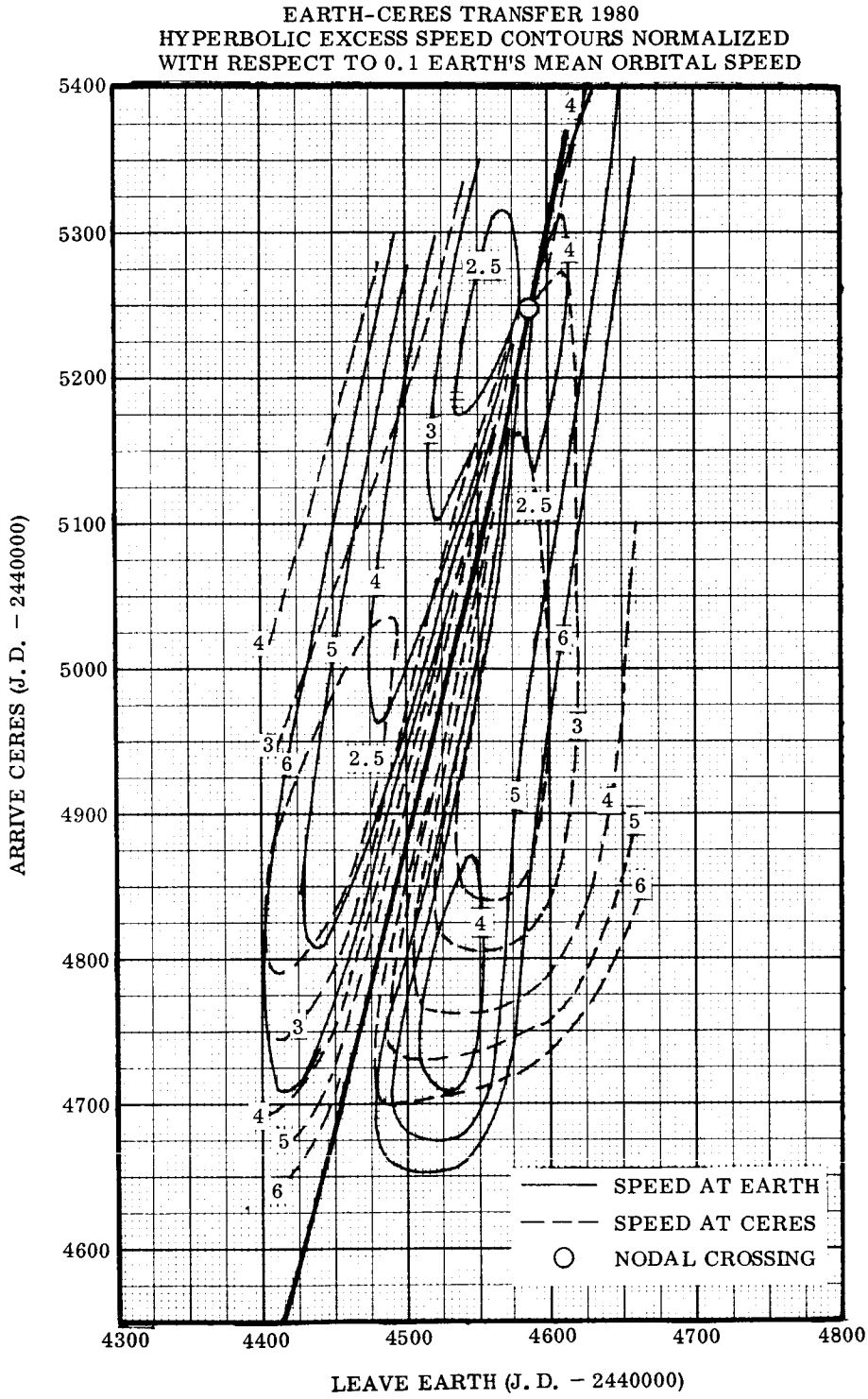


Fig. 2-20 Earth-Ceres Transfer (1980)

# EARTH-VESTA HYPERBOLIC EXCESS SPEED

# CONTOUR CHARTS

# FOR THE YEARS 1969-1980

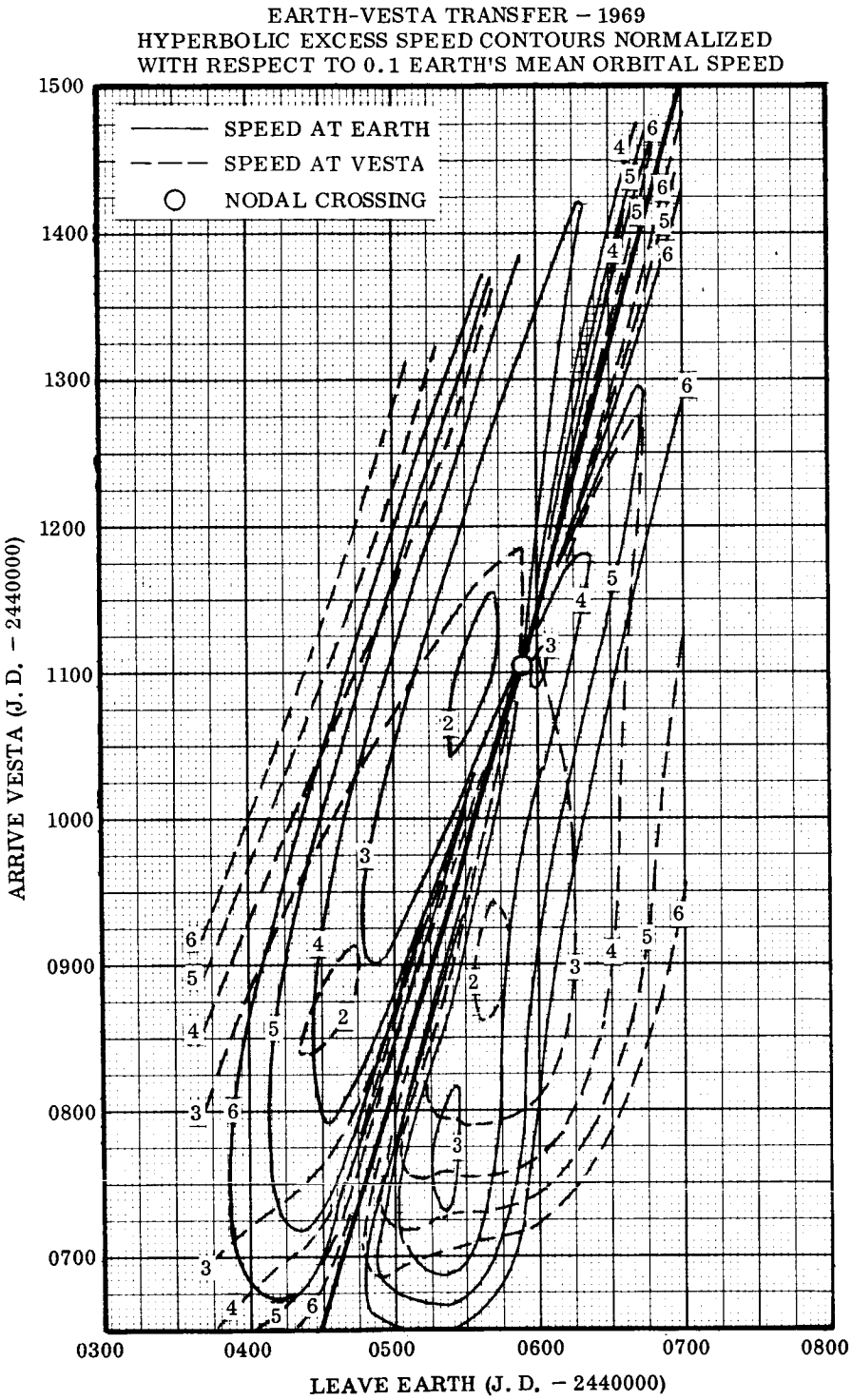


Fig. 2-21 Earth-Vesta Transfer (1969)

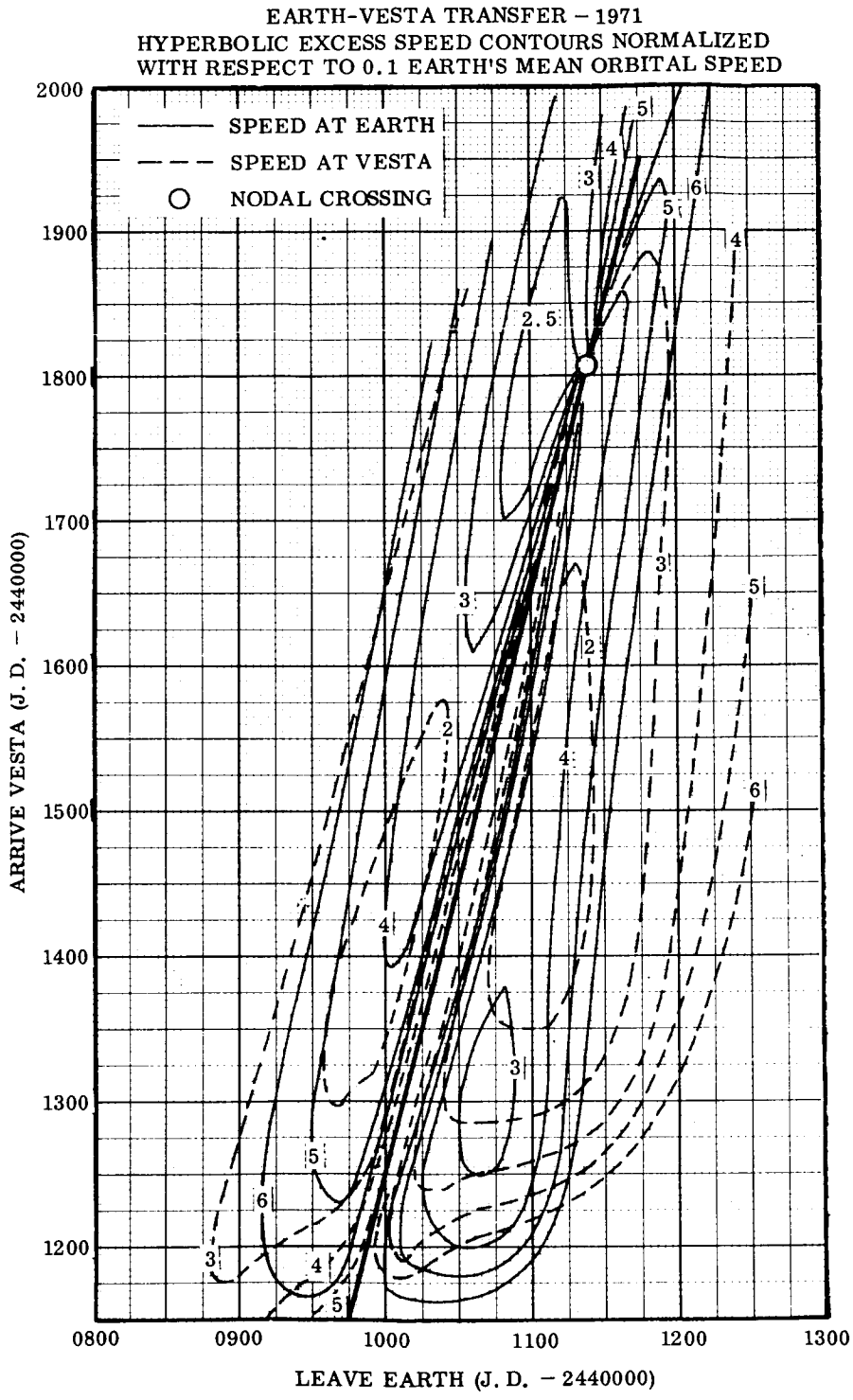


Fig. 2-22 Earth-Vesta Transfer (1971)

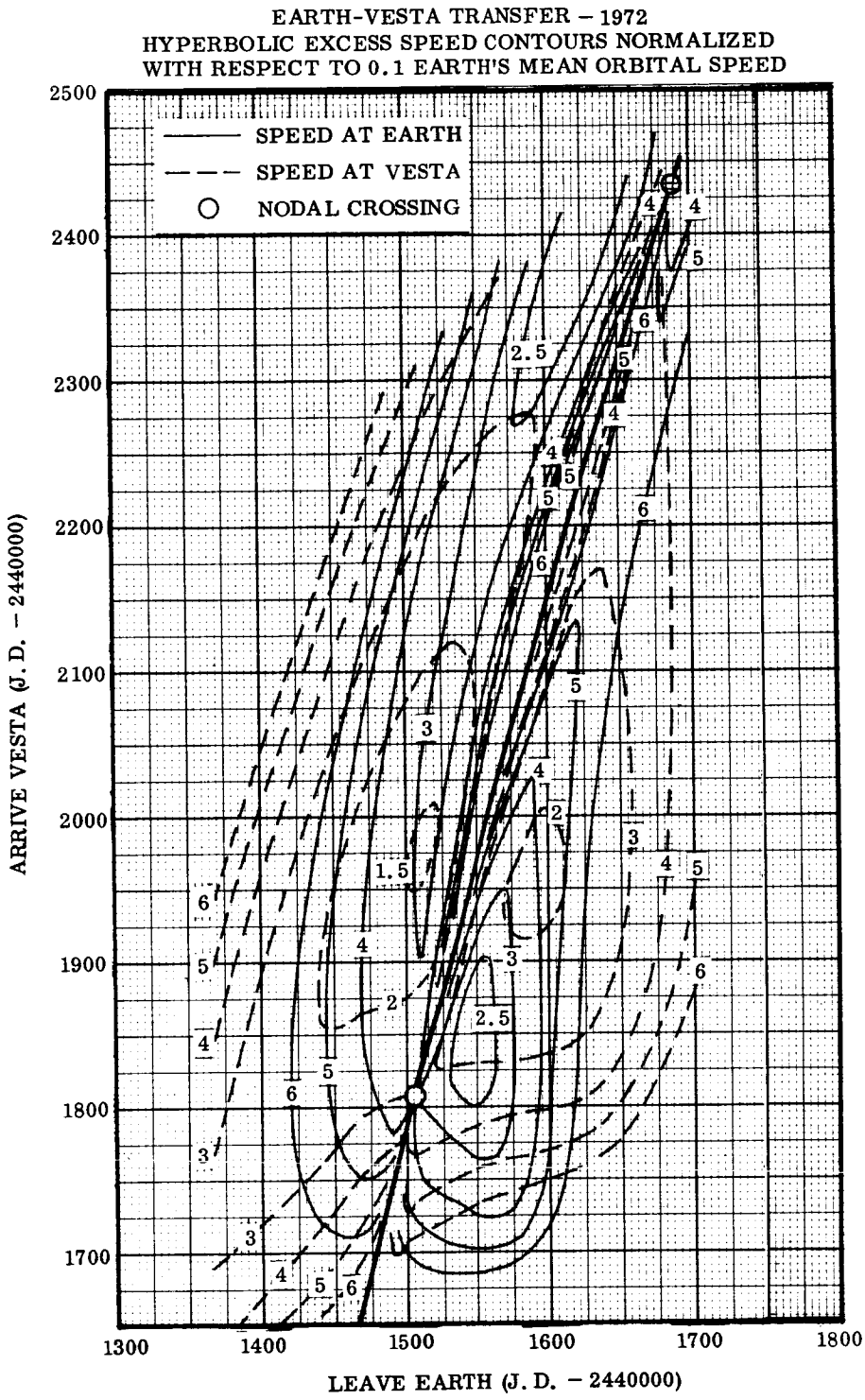


Fig. 2-23 Earth-Vesta Transfer (1972)

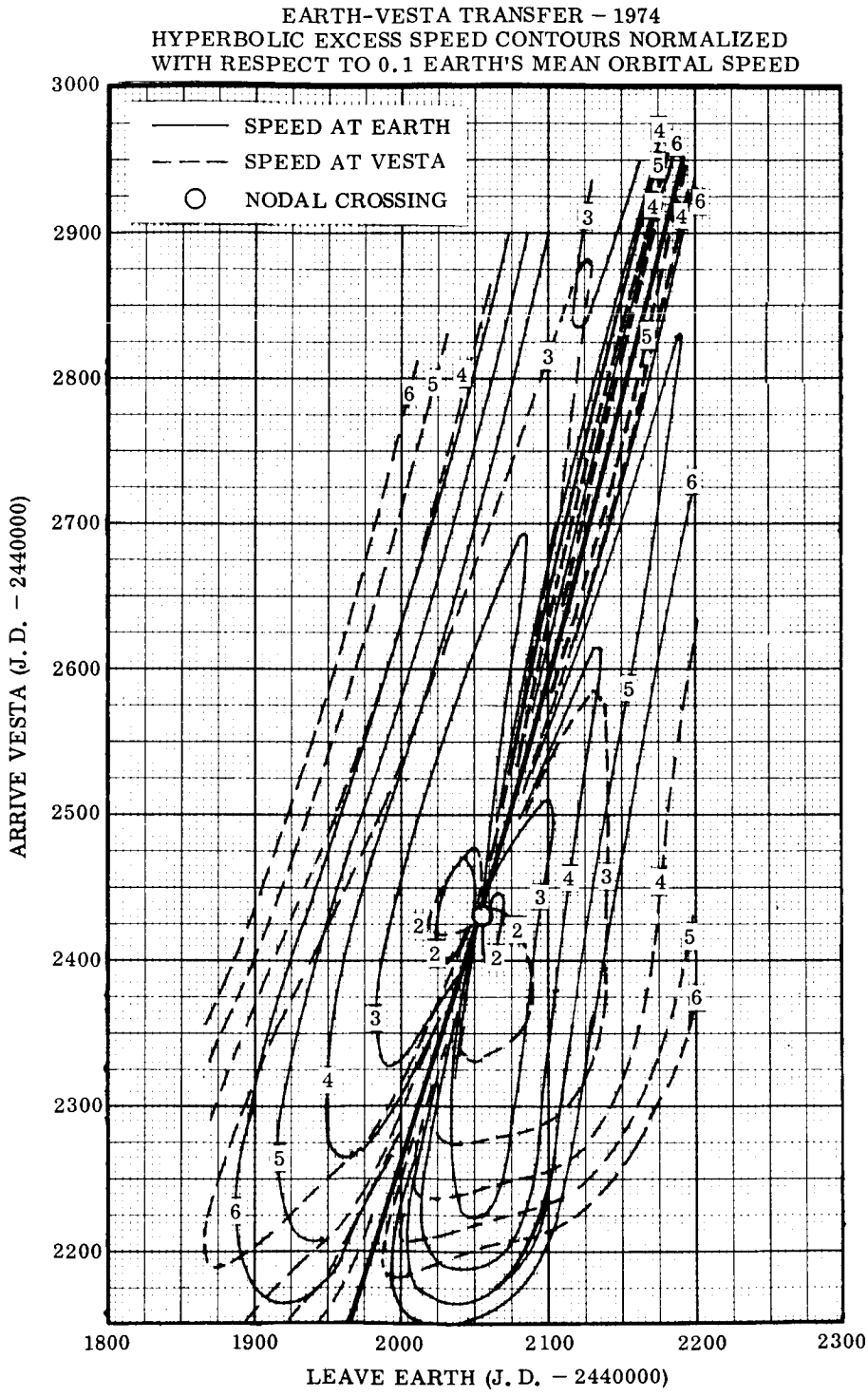


Fig. 2-24 Earth-Vesta Transfer (1974)

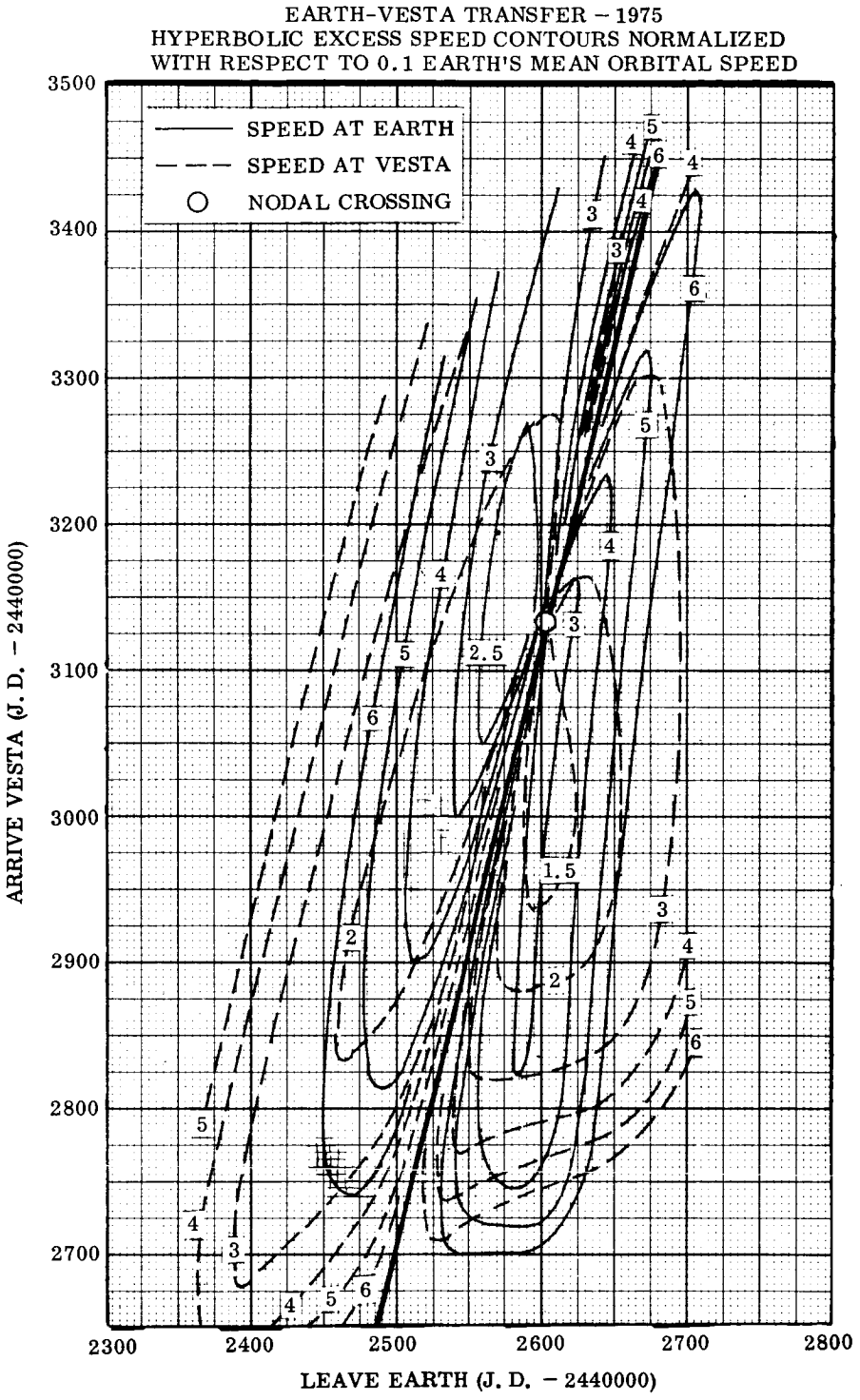


Fig. 2-25 Earth-Vesta Transfer (1975)

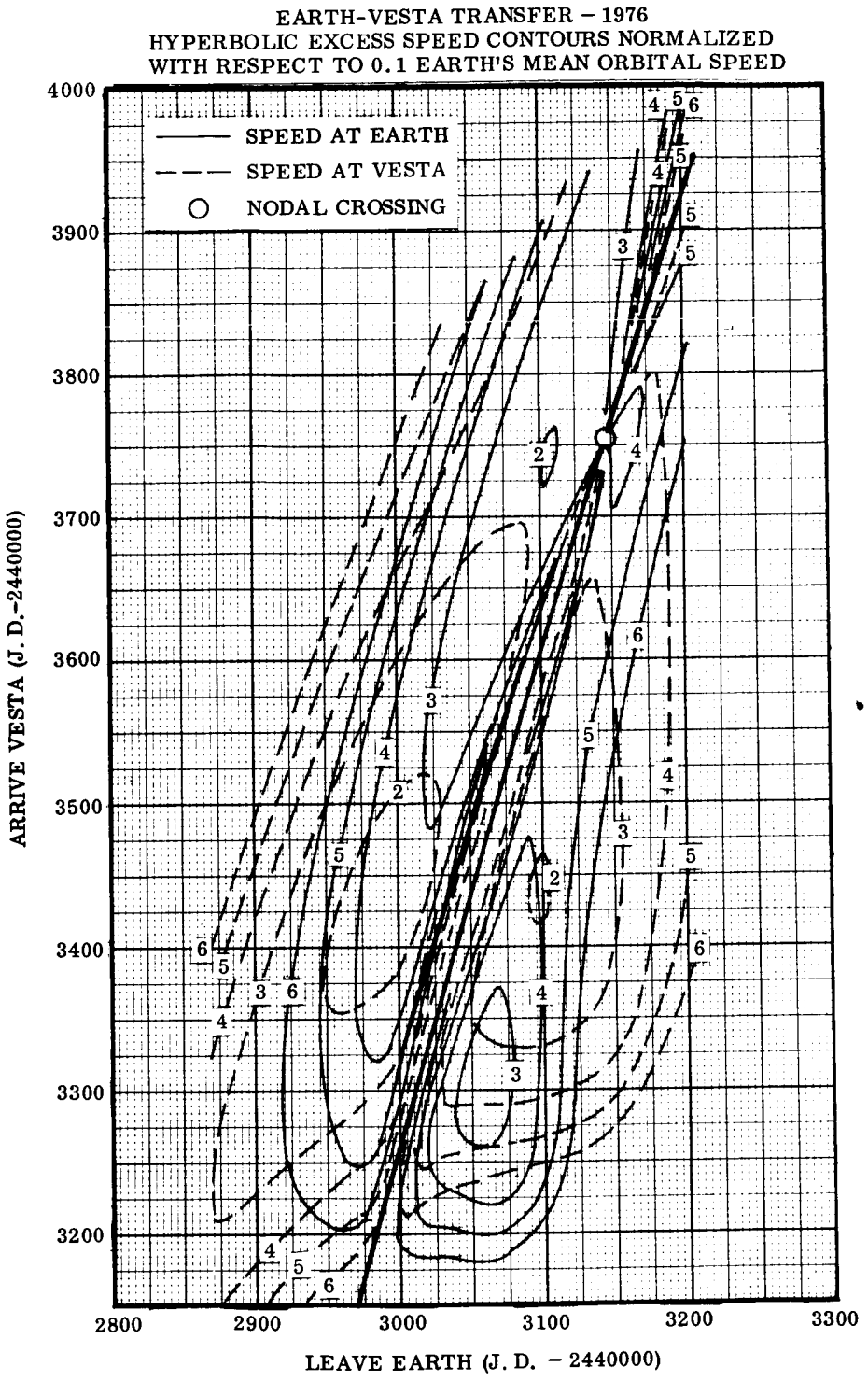


Fig. 2-26 Earth-Vesta Transfer (1976)

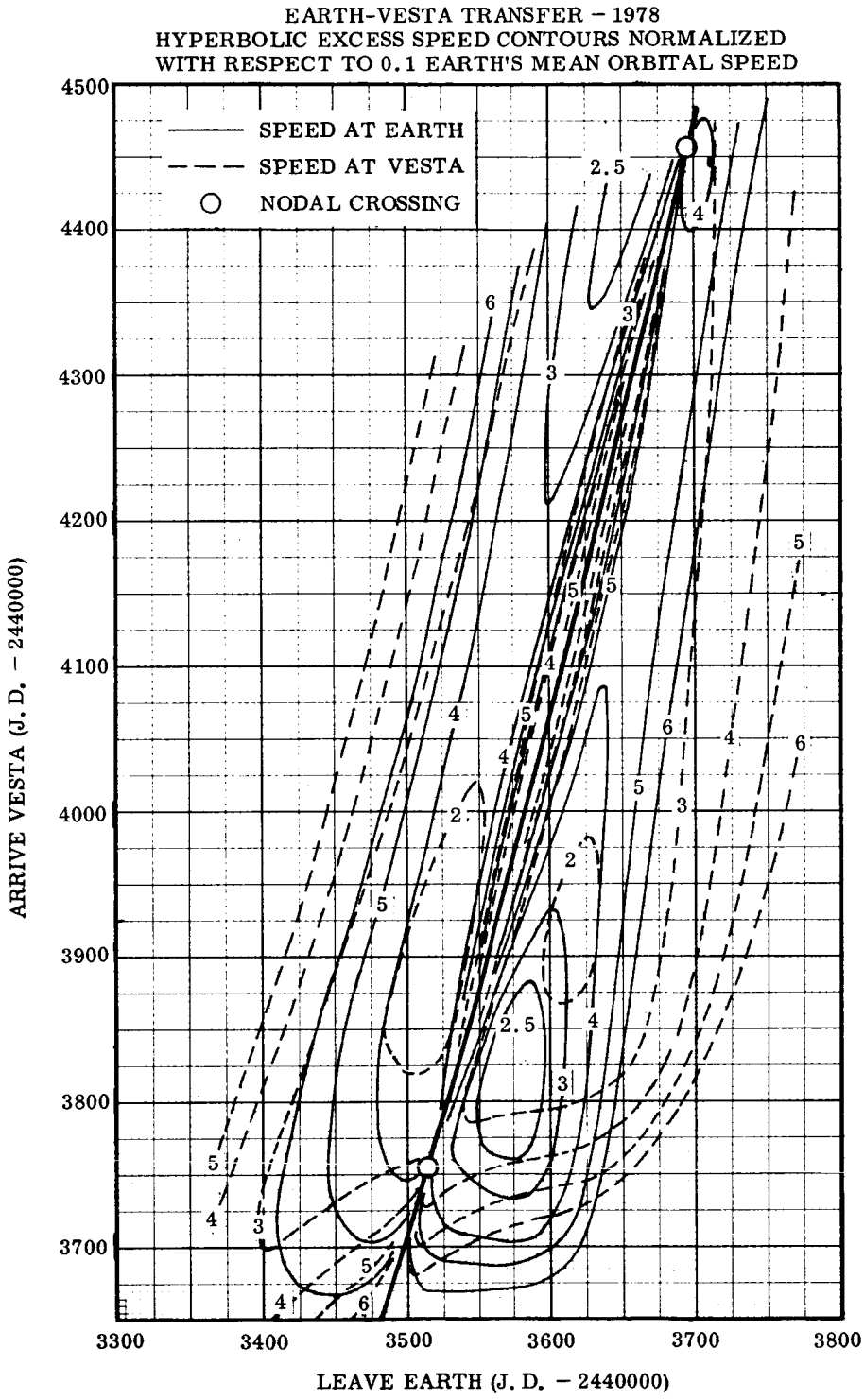


Fig. 2-27 Earth-Vesta Transfer (1978)

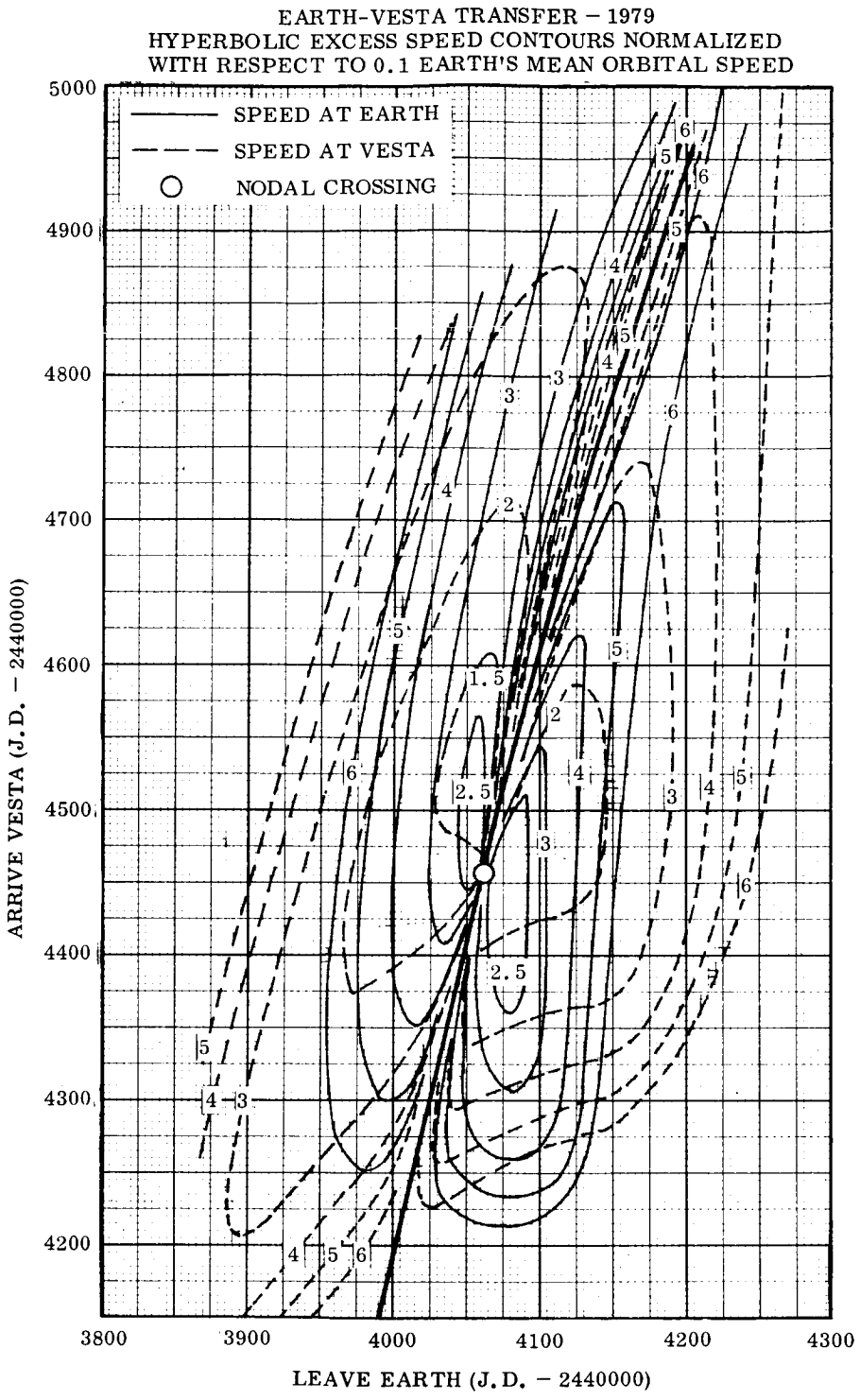


Fig. 2-28 Earth-Vesta Transfer (1979)

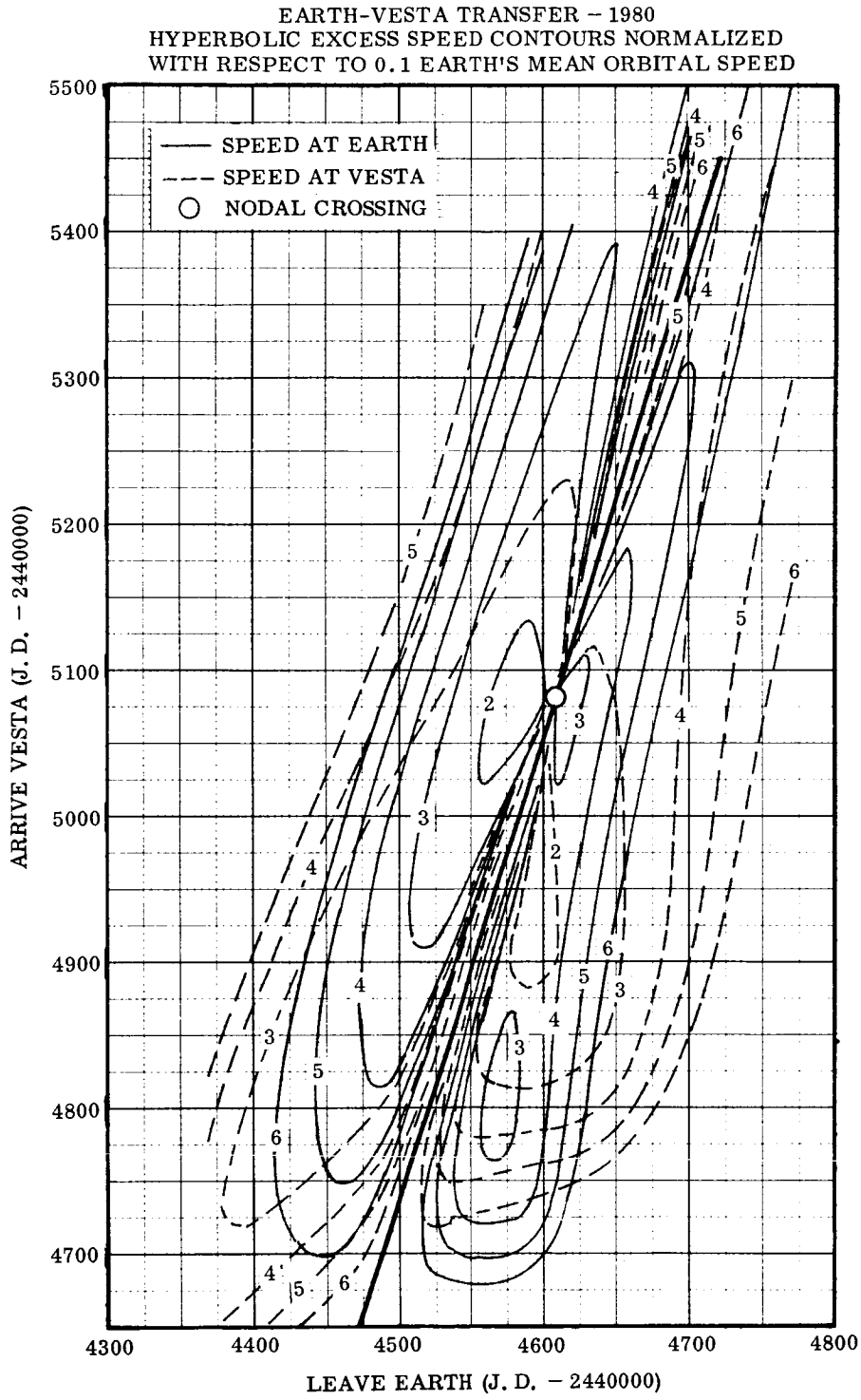


Fig. 2-29 Earth-Vesta Transfer (1980)

# SECTION 3

# TABULAR TRAJECTORY DATA

# EARTH-JUPITER TRAJECTORY DATA

# FOR THE YEARS 1970-1980

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 500 | 4- 940 | 0.862 | 183.3 | -3.8 | -1.66 | 1.411 | 128.1 | 0.993 | 94.634 | 283.5 | 501.0 | 0.617 | --- | 2.14 | 0.600 | 160.0 | 72.3 | 3.6 | 0.615 |
| 4- 500 | 4- 960 | 0.834 | 183.0 | -3.6 | -1.57 | 1.394 | 127.2 | 0.965 | 17.783 | 284.0 | 503.1 | 0.628 | --- | 2.07 | 0.561 | 158.5 | 72.4 | 3.7 | 0.577 |
| 4- 500 | 4- 980 | 0.810 | 182.8 | -3.4 | -1.48 | 1.380 | 126.4 | 0.939 | 10.495 | 284.5 | 505.2 | 0.637 | --- | 2.00 | 0.525 | 156.9 | 72.4 | 3.7 | 0.541 |
| 4- 500 | 4-1000 | 0.788 | 182.5 | -3.3 | -1.40 | 1.368 | 125.6 | 0.917 | 7.764 | 285.0 | 507.2 | 0.645 | --- | 1.94 | 0.492 | 155.2 | 72.4 | 3.7 | 0.509 |
| 4- 500 | 4-1020 | 0.769 | 182.3 | -3.1 | -1.32 | 1.357 | 124.9 | 0.897 | 6.342 | 285.4 | 509.1 | 0.653 | --- | 1.89 | 0.462 | 153.5 | 72.2 | 3.7 | 0.479 |
| 4- 500 | 4-1040 | 0.753 | 182.2 | -3.0 | -1.25 | 1.348 | 124.3 | 0.880 | 5.475 | 285.8 | 511.1 | 0.659 | --- | 1.84 | 0.435 | 151.6 | 72.0 | 3.8 | 0.452 |
| 4- 500 | 4-1060 | 0.738 | 182.0 | -2.8 | -1.18 | 1.340 | 123.8 | 0.864 | 4.895 | 286.1 | 512.9 | 0.665 | --- | 1.79 | 0.410 | 149.6 | 71.7 | 3.8 | 0.428 |
| 4- 500 | 4-1080 | 0.726 | 181.9 | -2.7 | -1.12 | 1.333 | 123.4 | 0.851 | 4.483 | 286.3 | 514.7 | 0.670 | --- | 1.75 | 0.387 | 147.6 | 71.3 | 3.8 | 0.405 |
| 4- 500 | 4-1100 | 0.715 | 181.8 | -2.6 | -1.06 | 1.327 | 123.0 | 0.839 | 4.177 | 286.5 | 516.5 | 0.674 | --- | 1.70 | 0.365 | 145.4 | 70.8 | 3.8 | 0.384 |
| 4- 500 | 4-1120 | 0.706 | 181.8 | -2.5 | -1.00 | 1.322 | 122.7 | 0.828 | 3.942 | 286.7 | 518.2 | 0.677 | --- | 1.67 | 0.346 | 143.1 | 70.2 | 3.8 | 0.365 |
| 4- 500 | 4-1140 | 0.698 | 181.8 | -2.4 | -0.94 | 1.317 | 122.4 | 0.819 | 3.758 | 286.8 | 519.9 | 0.680 | --- | 1.63 | 0.328 | 140.7 | 69.5 | 3.8 | 0.347 |
| 4- 500 | 4-1160 | 0.691 | 181.8 | -2.3 | -0.89 | 1.313 | 122.2 | 0.811 | 3.611 | 286.8 | 521.5 | 0.682 | --- | 1.60 | 0.312 | 138.2 | 68.8 | 3.9 | 0.331 |
| 4- 500 | 4-1180 | 0.686 | 181.8 | -2.3 | -0.83 | 1.309 | 122.0 | 0.804 | 3.492 | 286.8 | 523.0 | 0.683 | --- | 1.57 | 0.297 | 135.5 | 67.9 | 3.9 | 0.317 |
| 4- 500 | 4-1200 | 0.682 | 181.9 | -2.2 | -0.78 | 1.306 | 121.9 | 0.799 | 3.394 | 286.7 | 524.5 | 0.684 | --- | 1.54 | 0.283 | 132.8 | 66.9 | 3.9 | 0.304 |
| 4- 500 | 4-1220 | 0.679 | 182.0 | -2.2 | -0.73 | 1.303 | 121.8 | 0.794 | 3.313 | 286.6 | 526.0 | 0.684 | --- | 1.52 | 0.271 | 129.9 | 65.8 | 3.9 | 0.292 |
| 4- 500 | 4-1240 | 0.677 | 182.1 | -2.1 | -0.69 | 1.301 | 121.8 | 0.789 | 3.245 | 286.4 | 527.4 | 0.683 | --- | 1.49 | 0.260 | 126.9 | 64.7 | 3.9 | 0.281 |
| 4- 500 | 4-1260 | 0.675 | 182.3 | -2.1 | -0.64 | 1.299 | 121.8 | 0.786 | 3.189 | 286.2 | 528.7 | 0.682 | --- | 1.47 | 0.250 | 123.9 | 63.4 | 3.9 | 0.272 |
| 4- 500 | 4-1280 | 0.675 | 182.5 | -2.1 | -0.59 | 1.297 | 121.8 | 0.783 | 3.141 | 285.9 | 530.0 | 0.681 | --- | 1.45 | 0.241 | 120.7 | 62.1 | 3.9 | 0.263 |
| 4- 500 | 4-1300 | 0.675 | 182.7 | -2.1 | -0.55 | 1.295 | 121.9 | 0.781 | 3.101 | 285.5 | 531.3 | 0.679 | --- | 1.43 | 0.234 | 117.5 | 60.8 | 3.8 | 0.256 |
| 4- 500 | 4-1320 | 0.676 | 182.9 | -2.2 | -0.51 | 1.294 | 122.0 | 0.780 | 3.067 | 285.1 | 532.5 | 0.676 | --- | 1.41 | 0.227 | 114.2 | 59.4 | 3.8 | 0.250 |
| 4- 500 | 4-1340 | 0.678 | 183.2 | -2.2 | -0.46 | 1.293 | 122.2 | 0.778 | 3.039 | 284.7 | 533.6 | 0.673 | --- | 1.40 | 0.221 | 110.9 | 58.0 | 3.8 | 0.245 |
| 4- 500 | 4-1360 | 0.680 | 183.5 | -2.2 | -0.42 | 1.292 | 122.3 | 0.778 | 3.016 | 284.2 | 534.8 | 0.670 | --- | 1.38 | 0.217 | 107.5 | 56.6 | 3.7 | 0.240 |
| 4- 500 | 4-1380 | 0.684 | 183.8 | -2.3 | -0.38 | 1.291 | 122.5 | 0.778 | 2.996 | 283.7 | 535.8 | 0.666 | --- | 1.37 | 0.213 | 104.1 | 55.1 | 3.7 | 0.237 |
| 4- 500 | 4-1400 | 0.687 | 184.1 | -2.4 | -0.34 | 1.290 | 122.8 | 0.778 | 2.980 | 283.1 | 536.9 | 0.662 | --- | 1.36 | 0.209 | 100.8 | 53.8 | 3.7 | 0.234 |
| 4- 500 | 4-1420 | 0.691 | 184.5 | -2.4 | -0.30 | 1.290 | 123.1 | 0.779 | 2.966 | 282.5 | 537.9 | 0.657 | --- | 1.35 | 0.207 | 97.5 | 52.4 | 3.6 | 0.232 |
| 4- 500 | 4-1440 | 0.696 | 184.8 | -2.5 | -0.26 | 1.289 | 123.4 | 0.780 | 2.956 | 281.8 | 538.8 | 0.651 | --- | 1.34 | 0.205 | 94.2 | 51.1 | 3.6 | 0.231 |
| 4- 500 | 4-1460 | 0.702 | 185.2 | -2.6 | -0.22 | 1.289 | 123.7 | 0.781 | 2.947 | 281.1 | 539.7 | 0.646 | --- | 1.33 | 0.204 | 91.0 | 49.9 | 3.5 | 0.231 |
| 4- 500 | 4-1480 | 0.708 | 185.7 | -2.7 | -0.18 | 1.289 | 124.0 | 0.783 | 2.941 | 280.3 | 540.6 | 0.640 | 5.243 | 1.32 | 0.204 | 87.8 | 48.8 | 3.5 | 0.231 |
| 4- 500 | 4-1500 | 0.714 | 186.1 | -2.9 | -0.15 | 1.288 | 124.4 | 0.784 | 2.937 | 279.5 | 541.4 | 0.633 | 5.241 | 1.32 | 0.204 | 84.8 | 47.8 | 3.4 | 0.232 |
| 4- 500 | 4-1520 | 0.721 | 186.5 | -3.0 | -0.11 | 1.288 | 124.8 | 0.787 | 2.934 | 278.7 | 542.2 | 0.626 | 5.242 | 1.31 | 0.204 | 81.8 | 46.9 | 3.4 | 0.234 |
| 4- 500 | 4-1540 | 0.728 | 187.0 | -3.1 | -0.07 | 1.288 | 125.2 | 0.789 | 2.933 | 277.8 | 543.0 | 0.619 | 5.247 | 1.31 | 0.205 | 79.0 | 46.1 | 3.3 | 0.236 |
| 4- 500 | 4-1560 | 0.736 | 187.5 | -3.3 | -0.03 | 1.288 | 125.7 | 0.792 | 2.933 | 276.9 | 543.7 | 0.611 | 5.255 | 1.31 | 0.207 | 76.2 | 45.4 | 3.3 | 0.238 |
| 4- 500 | 4-1580 | 0.744 | 188.0 | -3.4 | 0.01 | 1.288 | 126.1 | 0.795 | 2.934 | 275.9 | 544.4 | 0.603 | 5.265 | 1.31 | 0.208 | 73.6 | 44.8 | 3.2 | 0.241 |
| 4- 500 | 4-1600 | 0.753 | 188.5 | -3.6 | 0.04 | 1.288 | 126.6 | 0.798 | 2.936 | 274.9 | 545.1 | 0.594 | 5.279 | 1.30 | 0.210 | 71.0 | 44.4 | 3.2 | 0.244 |
| 4- 500 | 4-1620 | 0.762 | 189.0 | -3.8 | 0.08 | 1.288 | 127.2 | 0.801 | 2.940 | 273.9 | 545.7 | 0.585 | 5.294 | 1.31 | 0.212 | 68.6 | 44.0 | 3.2 | 0.248 |
| 4- 500 | 4-1640 | 0.772 | 189.6 | -4.0 | 0.12 | 1.289 | 127.7 | 0.804 | 2.944 | 272.8 | 546.3 | 0.576 | 5.312 | 1.31 | 0.215 | 66.3 | 43.8 | 3.1 | 0.252 |
| 4- 500 | 4-1660 | 0.782 | 190.1 | -4.1 | 0.16 | 1.289 | 128.3 | 0.808 | 2.949 | 271.7 | 546.9 | 0.566 | 5.332 | 1.31 | 0.217 | 64.0 | 43.6 | 3.1 | 0.256 |
| 4- 500 | 4-1680 | 0.792 | 190.7 | -4.3 | 0.20 | 1.289 | 128.9 | 0.812 | 2.955 | 270.5 | 547.4 | 0.556 | 5.354 | 1.31 | 0.220 | 61.9 | 43.6 | 3.1 | 0.260 |
| 4- 500 | 4-1700 | 0.803 | 191.3 | -4.5 | 0.24 | 1.289 | 129.5 | 0.816 | 2.961 | 269.3 | 547.9 | 0.545 | 5.377 | 1.32 | 0.223 | 59.8 | 43.7 | 3.1 | 0.265 |
| 4- 500 | 4-1720 | 0.814 | 191.9 | -4.7 | 0.27 | 1.290 | 130.1 | 0.820 | 2.968 | 268.1 | 548.3 | 0.535 | 5.402 | 1.33 | 0.226 | 57.8 | 43.9 | 3.1 | 0.270 |
| 4- 500 | 4-1740 | 0.826 | 192.5 | -4.9 | 0.31 | 1.290 | 130.8 | 0.824 | 2.976 | 266.9 | 548.8 | 0.523 | 5.429 | 1.33 | 0.229 | 55.9 | 44.2 | 3.1 | 0.275 |
| 4- 500 | 4-1760 | 0.838 | 193.1 | -5.2 | 0.36 | 1.290 | 131.4 | 0.829 | 2.984 | 265.6 | 549.2 | 0.512 | 5.457 | 1.34 | 0.232 | 54.1 | 44.6 | 3.1 | 0.280 |
| 4- 500 | 4-1780 | 0.850 | 193.7 | -5.4 | 0.40 | 1.291 | 132.1 | 0.833 | 2.993 | 264.2 | 549.5 | 0.500 | 5.486 | 1.35 | 0.236 | 52.3 | 45.0 | 3.1 | 0.286 |
| 4- 500 | 4-1800 | 0.863 | 194.3 | -5.6 | 0.44 | 1.291 | 132.9 | 0.838 | 3.002 | 262.8 | 549.9 | 0.487 | 5.517 | 1.36 | 0.239 | 50.6 | 45.6 | 3.1 | 0.291 |
| 4- 500 | 4-1820 | 0.877 | 195.0 | -5.8 | 0.48 | 1.292 | 133.6 | 0.842 | 3.012 | 261.4 | 550.2 | 0.475 | 5.549 | 1.38 | 0.242 | 48.9 | 46.2 | 3.1 | 0.297 |
| 4- 500 | 4-1840 | 0.890 | 195.6 | -6.1 | 0.53 | 1.292 | 134.4 | 0.847 | 3.022 | 260.0 | 550.5 | 0.462 | 5.582 | 1.39 | 0.246 | 47.3 | 46.9 | 3.1 | 0.303 |
| 4- 500 | 4-1860 | 0.904 | 196.3 | -6.3 | 0.57 | 1.293 | 135.2 | 0.852 | 3.033 | 258.5 | 550.7 | 0.448 | 5.617 | 1.41 | 0.249 | 45.8 | 47.6 | 3.1 | 0.309 |
| 4- 500 | 4-1880 | 0.919 | 196.9 | -6.6 | 0.62 | 1.293 | 136.0 | 0.857 | 3.043 | 257.0 | 550.9 | 0.435 | 5.652 | 1.43 | 0.252 | 44.3 | 48.5 | 3.1 | 0.315 |
| 4- 500 | 4-1900 | 0.933 | 197.6 | -6.8 | 0.67 | 1.293 | 136.8 | 0.862 | 3.055 | 255.5 | 551.1 | 0.421 | 5.688 | 1.45 | 0.256 | 42.8 | 49.4 | 3.1 | 0.321 |
| 4- 500 | 4-1920 | 0.948 | 198.3 | -7.1 | 0.71 | 1.294 | 137.7 | 0.867 | 3.066 | 253.9 | 551.3 | 0.407 | 5.725 | 1.47 | 0.259 | 41.4 | 50.4 | 3.1 | 0.328 |
| 4- 500 | 4-1940 | 0.964 | 199.0 | -7.3 | 0.77 | 1.294 | 138.5 | 0.873 | 3.078 | 252.3 | 551.4 | 0.392 | 5.763 | 1.49 | 0.263 | 40.0 | 51.4 | 3.2 | 0.334 |
| 4- 500 | 4-1960 | 0.980 | 199.7 | -7.6 | 0.82 | 1.295 | 139.4 | 0.878 | 3.090 | 250.6 | 551.5 | 0.378 | 5.802 | 1.52 | 0.266 | 38.6 | 52.5 | 3.2 | 0.341 |
| 4- 500 | 4-1980 | 0.996 | 200.4 | -7.8 | 0.87 | 1.295 | 140.4 | 0.883 | 3.102 | 249.0 | 551.6 | 0.363 | 5.842 | 1.55 | 0.269 | 37.3 | 53.6 | 3.2 | 0.347 |
| 4- 500 | 4-2000 | 1.013 | 201.2 | -8.1 | 0.93 | 1.296 | 141.3 | 0.888 | 3.115 | 247.3 | 551.6 | 0.348 | 5.882 | 1.58 | 0.273 | 36.0 | 54.8 | 3.2 | 0.354 |
| 4- 500 | 4-2020 | 1.029 | 201.9 | -8.4 | 0.99 | 1.296 | 142.3 | 0.894 | 3.128 | 245.5 | 551.6 | 0.332 | 5.923 | 1.62 | 0.276 | 34.7 | 56.0 | 3.2 | 0.361 |
| 4- 500 | 4-2040 | 1.047 | 202.7 | -8.6 | 1.05 | 1.297 | 143.2 | 0.899 | 3.141 | 243.7 | 551.6 | 0.317 | 5.965 | 1.65 | 0.279 | 33.4 | 57.3 | 3.3 | 0.368 |
| 4- 500 | 4-2060 | 1.064 | 203.4 | -8.9 | 1.12 | 1.297 | 144.3 | 0.904 | 3.154 | 241.9 | 551.6 | 0.302 | 6.007 | 1.69 | 0.282 | 32.2 | 58.6 | 3.3 | 0.375 |
| 4- 500 | 4-2080 | 1.082 | 204.2 | -9.2 | 1.19 | 1.298 | 145.3 | 0.910 | 3.168 | 240.1 | 551.5 | 0.286 | 6.050 | 1.74 | 0.286 | 30.9 | 60.0 | 3.3 | 0.382 |
| 4- 500 | 4-2100 | 1.101 | 204.9 | -9.5 | 1.26 | 1.298 | 146.3 | 0.915 | 3.182 | 238.2 | 551.4 | 0.270 | 6.093 | 1.79 | 0.289 | 29.7 | 61.4 | 3.4 | 0.389 |
| 4- 510 | 4- 950 | 0.807 | 188.3 | -6.9 | -2.10 | 1.415 | 124.8 | 0.998 | 82.951 | 290.4 | 498.9 | 0.673 | --- | 2.68 | 0.606 | 159.2 | 74.0 | 3.9 | 0.615 |
| 4- 510 | 4- 970 | 0.779 | 187.9 | -6.6 | -1.95 | 1.399 | 123.8 | 0.966 | 20.226 | 291.0 | 501.0 | 0.683 | --- | 2.56 | 0.567 | 157.7 | 74.1 | 3.9 | 0.576 |
| 4- 510 | 4- 990 | 0.754 | 187.7 | -6.4 | -1.82 | 1.385 | 123.0 | 0.939 | 11.273 | 291.6 | 503.2 | 0.692 | --- | 2.45 | 0.531 | 156.1 | 74.2 | 3.9 | 0.541 |
| 4- 510 | 4-1010 | 0.733 | 187.4 | -6.1 | -1.70 | 1.372 | 122.2 | 0.914 | 8.167 | 292.2 | 505.2 | 0.701 | --- | 2.34 | 0.499 | 154.5 | 74.1 | 3.9 | 0.509 |
| 4- 510 | 4-1030 | 0.714 | 187.2 | -5.9 | -1.59 | 1.362 | 121.5 | 0.893 | 6.600 | 292.7 | 507.3 | 0.708 | --- | 2.25 | 0.469 | 152.7 | 74.1 | 4.0 | 0.479 |
| 4- 510 | 4-1050 | 0.697 | 186.9 | -5.7 | -1.49 | 1.353 | 120.9 | 0.874 | 5.661 | 293.1 | 509.3 | 0.714 | --- | 2.17 | 0.442 | 150.9 | 73.9 | 4.0 | 0.452 |
| 4- 510 | 4-1070 | 0.682 | 186.8 | -5.5 | -1.39 | 1.344 | 120.4 | 0.857 | 5.039 | 293.5 | 511.2 | 0.720 | --- | 2.09 | 0.417 | 148.9 | 73.6 | 4.0 | 0.427 |
| 4- 510 | 4-1090 | 0.669 | 186.6 | -5.3 | -1.30 | 1.337 | 119.9 | 0.842 | 4.600 | 293.8 | 513.1 | 0.725 | --- | 2.02 | 0.394 | 146.9 | 73.3 | 4.0 | 0.404 |
| 4- 510 | 4-1110 | 0.658 | 186.5 | -5.1 | -1.22 | 1.331 | 119.5 | 0.829 | 4.275 | 294.1 | 514.9 | 0.729 | --- | 1.96 | 0.373 | 144.7 | 72.9 | 4.0 | 0.383 |
| 4- 510 | 4-1130 | 0.649 | 186.4 | -5.0 | -1.14 | 1.326 | 119.2 | 0.818 | 4.027 | 294.3 | 516.7 | 0.733 | --- | 1.90 | 0.354 | 142.5 | 72.4 | 4.0 | 0.364 |
| 4- 510 | 4-1150 | 0.641 | 186.4 | -4.8 | -1.06 | 1.321 | 118.9 | 0.808 | 3.833 | 294.4 | 518.4 | 0.736 | --- | 1.84 | 0.336 | 140.1 | 71.7 | 4.1 | 0.346 |
| 4- 510 | 4-1170 | 0.634 | 186.4 | -4.7 | -0.99 | 1.317 | 118.6 | 0.799 | 3.679 | 294.5 | 520.1 | 0.738 | --- | 1.79 | 0.320 | 137.6 | 71.0 | 4.1 | 0.330 |
| 4- 510 | 4-1190 | 0.628 | 186.4 | -4.6 | -0.92 | 1.313 | 118.4 | 0.792 | 3.553 | 294.6 | 521.7 | 0.740 | --- | 1.74 | 0.305 | 135.1 | 70.2 | 4.1 | 0.315 |
| 4- 510 | 4-1210 | 0.623 | 186.4 | -4.5 | -0.86 | 1.310 | 118.3 | 0.785 | 3.450 | 294.6 | 523.3 | 0.741 | --- | 1.70 | 0.292 | 132.4 | 69.3 | 4.1 | 0.301 |
| 4- 510 | 4-1230 | 0.620 | 186.5 | -4.4 | -0.80 | 1.307 | 118.2 | 0.780 | 3.365 | 294.5 | 524.8 | 0.741 | --- | 1.66 | 0.280 | 129.6 | 68.3 | 4.1 | 0.289 |
| 4- 510 | 4-1250 | 0.617 | 186.7 | -4.4 | -0.74 | 1.305 | 118.1 | 0.775 | 3.294 | 294.4 | 526.2 | 0.741 | --- | 1.63 | 0.269 | 126.7 | 67.2 | 4.1 | 0.278 |
| 4- 510 | 4-1270 | 0.615 | 186.8 | -4.3 | -0.68 | 1.303 | 118.1 | 0.771 | 3.235 | 294.2 | 527.6 | 0.741 | --- | 1.59 | 0.259 | 123.8 | 66.0 | 4.1 | 0.268 |
| 4- 510 | 4-1290 | 0.614 | 187.0 | -4.3 | -0.63 | 1.301 | 118.1 | 0.768 | 3.185 | 293.9 | 529.0 | 0.740 | --- | 1.56 | 0.251 | 120.8 | 64.8 | 4.1 | 0.260 |
| 4- 510 | 4-1310 | 0.614 | 187.2 | -4.3 | -0.58 | 1.299 | 118.2 | 0.765 | 3.143 | 293.7 | 530.3 | 0.738 | --- | 1.53 | 0.243 | 117.7 | 63.5 | 4.1 | 0.252 |
| 4- 510 | 4-1330 | 0.615 | 187.4 | -4.3 | -0.53 | 1.298 | 118.3 | 0.763 | 3.107 | 293.3 | 531.6 | 0.736 | --- | 1.50 | 0.237 | 114.5 | 62.1 | 4.0 | 0.245 |
| 4- 510 | 4-1350 | 0.616 | 187.7 | -4.3 | -0.48 | 1.297 | 118.4 | 0.762 | 3.077 | 292.9 | 532.8 | 0.734 | --- | 1.48 | 0.231 | 111.4 | 60.7 | 4.0 | 0.240 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 510 | 4-1370 | 0.618 | 188.0 | -4.3 | -0.43 | 1.296 | 118.6 | 0.760 | 3.052 | 292.5 | 534.0 | 0.731 | --- | 1.46 | 0.226 | 108.2 | 59.3 | 4.0 | 0.235 |
| 4- 510 | 4-1390 | 0.620 | 188.3 | -4.4 | -0.39 | 1.295 | 118.7 | 0.760 | 3.031 | 292.0 | 535.1 | 0.728 | --- | 1.43 | 0.222 | 105.0 | 57.9 | 3.9 | 0.231 |
| 4- 510 | 4-1410 | 0.623 | 188.7 | -4.4 | -0.34 | 1.294 | 118.9 | 0.760 | 3.014 | 291.5 | 536.2 | 0.724 | --- | 1.41 | 0.219 | 101.8 | 56.5 | 3.9 | 0.228 |
| 4- 510 | 4-1430 | 0.627 | 189.0 | -4.5 | -0.30 | 1.293 | 119.2 | 0.760 | 3.000 | 290.9 | 537.2 | 0.720 | --- | 1.40 | 0.217 | 98.7 | 55.1 | 3.8 | 0.226 |
| 4- 510 | 4-1450 | 0.631 | 189.4 | -4.6 | -0.26 | 1.293 | 119.4 | 0.760 | 2.988 | 290.3 | 538.2 | 0.716 | --- | 1.38 | 0.215 | 95.6 | 53.8 | 3.8 | 0.224 |
| 4- 510 | 4-1470 | 0.636 | 189.8 | -4.6 | -0.21 | 1.292 | 119.7 | 0.761 | 2.979 | 289.6 | 539.2 | 0.711 | --- | 1.36 | 0.214 | 92.6 | 52.6 | 3.7 | 0.223 |
| 4- 510 | 4-1490 | 0.641 | 190.3 | -4.7 | -0.17 | 1.292 | 120.0 | 0.763 | 2.972 | 288.9 | 540.1 | 0.706 | 5.238 | 1.35 | 0.213 | 89.6 | 51.4 | 3.7 | 0.223 |
| 4- 510 | 4-1510 | 0.647 | 190.7 | -4.9 | -0.13 | 1.292 | 120.4 | 0.764 | 2.967 | 288.2 | 541.0 | 0.700 | 5.234 | 1.34 | 0.213 | 86.7 | 50.3 | 3.6 | 0.223 |
| 4- 510 | 4-1530 | 0.653 | 191.2 | -5.0 | -0.09 | 1.292 | 120.7 | 0.766 | 2.963 | 287.4 | 541.9 | 0.694 | 5.233 | 1.33 | 0.213 | 83.9 | 49.3 | 3.6 | 0.224 |
| 4- 510 | 4-1550 | 0.659 | 191.7 | -5.1 | -0.05 | 1.292 | 121.1 | 0.768 | 2.961 | 286.6 | 542.7 | 0.687 | 5.235 | 1.32 | 0.214 | 81.2 | 48.4 | 3.5 | 0.226 |
| 4- 510 | 4-1570 | 0.666 | 192.2 | -5.2 | -0.01 | 1.292 | 121.5 | 0.770 | 2.961 | 285.7 | 543.5 | 0.680 | 5.241 | 1.31 | 0.215 | 78.6 | 47.6 | 3.5 | 0.228 |
| 4- 510 | 4-1590 | 0.674 | 192.7 | -5.4 | 0.02 | 1.292 | 122.0 | 0.773 | 2.961 | 284.8 | 544.2 | 0.673 | 5.250 | 1.30 | 0.216 | 76.1 | 47.0 | 3.4 | 0.230 |
| 4- 510 | 4-1610 | 0.682 | 193.2 | -5.5 | 0.06 | 1.292 | 122.4 | 0.775 | 2.963 | 283.8 | 544.9 | 0.666 | 5.261 | 1.29 | 0.218 | 73.7 | 46.4 | 3.4 | 0.233 |
| 4- 510 | 4-1630 | 0.690 | 193.8 | -5.7 | 0.10 | 1.292 | 122.9 | 0.778 | 2.966 | 282.8 | 545.6 | 0.658 | 5.274 | 1.29 | 0.220 | 71.4 | 46.0 | 3.3 | 0.236 |
| 4- 510 | 4-1650 | 0.699 | 194.3 | -5.9 | 0.14 | 1.292 | 123.4 | 0.781 | 2.970 | 281.8 | 546.3 | 0.649 | 5.290 | 1.28 | 0.222 | 69.1 | 45.6 | 3.3 | 0.239 |
| 4- 510 | 4-1670 | 0.708 | 194.9 | -6.1 | 0.18 | 1.292 | 123.9 | 0.785 | 2.974 | 280.7 | 546.9 | 0.640 | 5.308 | 1.28 | 0.225 | 67.0 | 45.4 | 3.3 | 0.243 |
| 4- 510 | 4-1690 | 0.718 | 195.5 | -6.3 | 0.21 | 1.292 | 124.5 | 0.788 | 2.979 | 279.7 | 547.5 | 0.631 | 5.328 | 1.28 | 0.227 | 64.9 | 45.3 | 3.2 | 0.247 |
| 4- 510 | 4-1710 | 0.728 | 196.1 | -6.5 | 0.25 | 1.293 | 125.0 | 0.792 | 2.985 | 278.5 | 548.0 | 0.622 | 5.349 | 1.28 | 0.230 | 62.9 | 45.3 | 3.2 | 0.251 |
| 4- 510 | 4-1730 | 0.738 | 196.7 | -6.7 | 0.29 | 1.293 | 125.6 | 0.796 | 2.992 | 277.4 | 548.5 | 0.612 | 5.373 | 1.28 | 0.233 | 61.0 | 45.4 | 3.2 | 0.256 |
| 4- 510 | 4-1750 | 0.749 | 197.3 | -6.9 | 0.33 | 1.293 | 126.2 | 0.799 | 2.999 | 276.1 | 549.0 | 0.601 | 5.397 | 1.28 | 0.235 | 59.2 | 45.6 | 3.2 | 0.261 |
| 4- 510 | 4-1770 | 0.760 | 197.9 | -7.1 | 0.37 | 1.294 | 126.8 | 0.804 | 3.007 | 274.9 | 549.5 | 0.591 | 5.424 | 1.28 | 0.238 | 57.5 | 45.9 | 3.2 | 0.265 |
| 4- 510 | 4-1790 | 0.771 | 198.6 | -7.3 | 0.40 | 1.294 | 127.5 | 0.808 | 3.016 | 273.6 | 549.9 | 0.580 | 5.451 | 1.29 | 0.241 | 55.8 | 46.3 | 3.2 | 0.270 |
| 4- 510 | 4-1810 | 0.783 | 199.2 | -7.5 | 0.44 | 1.294 | 128.1 | 0.812 | 3.024 | 272.3 | 550.3 | 0.568 | 5.480 | 1.29 | 0.245 | 54.1 | 46.7 | 3.2 | 0.276 |
| 4- 510 | 4-1830 | 0.796 | 199.9 | -7.7 | 0.48 | 1.295 | 128.8 | 0.817 | 3.034 | 271.0 | 550.7 | 0.557 | 5.511 | 1.30 | 0.248 | 52.5 | 47.3 | 3.2 | 0.281 |
| 4- 510 | 4-1850 | 0.808 | 200.6 | -8.0 | 0.52 | 1.295 | 129.5 | 0.821 | 3.043 | 269.6 | 551.0 | 0.544 | 5.542 | 1.30 | 0.251 | 51.0 | 47.9 | 3.2 | 0.286 |
| 4- 510 | 4-1870 | 0.821 | 201.2 | -8.2 | 0.56 | 1.296 | 130.3 | 0.826 | 3.053 | 268.2 | 551.4 | 0.532 | 5.575 | 1.31 | 0.254 | 49.5 | 48.6 | 3.2 | 0.292 |
| 4- 510 | 4-1890 | 0.835 | 201.9 | -8.4 | 0.60 | 1.296 | 131.0 | 0.831 | 3.064 | 266.8 | 551.6 | 0.519 | 5.608 | 1.32 | 0.257 | 48.1 | 49.3 | 3.2 | 0.298 |
| 4- 510 | 4-1910 | 0.848 | 202.6 | -8.7 | 0.64 | 1.296 | 131.8 | 0.835 | 3.074 | 265.3 | 551.9 | 0.506 | 5.643 | 1.33 | 0.260 | 46.7 | 50.2 | 3.2 | 0.304 |
| 4- 510 | 4-1930 | 0.863 | 203.3 | -8.9 | 0.69 | 1.297 | 132.6 | 0.840 | 3.086 | 263.8 | 552.1 | 0.492 | 5.679 | 1.35 | 0.264 | 45.3 | 51.0 | 3.2 | 0.310 |
| 4- 510 | 4-1950 | 0.877 | 204.0 | -9.2 | 0.73 | 1.297 | 133.4 | 0.845 | 3.097 | 262.2 | 552.3 | 0.479 | 5.715 | 1.36 | 0.267 | 43.9 | 52.0 | 3.2 | 0.316 |
| 4- 510 | 4-1970 | 0.892 | 204.8 | -9.4 | 0.78 | 1.298 | 134.2 | 0.851 | 3.109 | 260.7 | 552.5 | 0.464 | 5.753 | 1.38 | 0.270 | 42.6 | 53.0 | 3.2 | 0.322 |
| 4- 510 | 4-1990 | 0.907 | 205.5 | -9.7 | 0.82 | 1.298 | 135.1 | 0.856 | 3.121 | 259.1 | 552.6 | 0.450 | 5.791 | 1.40 | 0.273 | 41.4 | 54.1 | 3.3 | 0.328 |
| 4- 510 | 4-2010 | 0.923 | 206.2 | -9.9 | 0.87 | 1.299 | 136.0 | 0.861 | 3.133 | 257.4 | 552.8 | 0.435 | 5.830 | 1.41 | 0.276 | 40.1 | 55.2 | 3.3 | 0.334 |
| 4- 510 | 4-2030 | 0.939 | 207.0 | -10.2 | 0.92 | 1.299 | 136.9 | 0.866 | 3.145 | 255.8 | 552.9 | 0.420 | 5.870 | 1.44 | 0.279 | 38.9 | 56.4 | 3.3 | 0.341 |
| 4- 510 | 4-2050 | 0.955 | 207.7 | -10.5 | 0.97 | 1.300 | 137.8 | 0.872 | 3.158 | 254.1 | 552.9 | 0.405 | 5.911 | 1.46 | 0.283 | 37.7 | 57.6 | 3.3 | 0.347 |
| 4- 510 | 4-2070 | 0.972 | 208.5 | -10.7 | 1.02 | 1.300 | 138.7 | 0.877 | 3.171 | 252.3 | 552.9 | 0.390 | 5.952 | 1.49 | 0.286 | 36.5 | 58.8 | 3.3 | 0.354 |
| 4- 510 | 4-2090 | 0.989 | 209.3 | -11.0 | 1.07 | 1.301 | 139.7 | 0.883 | 3.184 | 250.5 | 552.9 | 0.374 | 5.994 | 1.51 | 0.289 | 35.3 | 60.1 | 3.4 | 0.361 |
| 4- 510 | 4-2110 | 1.006 | 210.0 | -11.3 | 1.13 | 1.301 | 140.7 | 0.888 | 3.197 | 248.7 | 552.9 | 0.358 | 6.037 | 1.55 | 0.292 | 34.1 | 61.5 | 3.4 | 0.367 |
| 4- 520 | 4- 960 | 0.751 | 192.5 | -10.6 | -2.99 | 1.419 | 121.2 | 1.00 | 145.979 | 297.6 | 496.9 | 0.727 | --- | 3.68 | 0.610 | 158.5 | 75.5 | 4.3 | 0.614 |
| 4- 520 | 4- 980 | 0.723 | 192.2 | -10.2 | -2.71 | 1.403 | 120.3 | 0.967 | 22.499 | 298.3 | 499.1 | 0.737 | --- | 3.42 | 0.571 | 157.0 | 75.7 | 4.3 | 0.575 |
| 4- 520 | 4-1000 | 0.699 | 191.9 | -9.7 | -2.47 | 1.389 | 119.4 | 0.937 | 11.935 | 299.0 | 501.3 | 0.746 | --- | 3.19 | 0.536 | 155.4 | 75.8 | 4.3 | 0.540 |
| 4- 520 | 4-1020 | 0.677 | 191.6 | -9.4 | -2.26 | 1.376 | 118.7 | 0.911 | 8.504 | 299.6 | 503.5 | 0.754 | --- | 3.00 | 0.504 | 153.7 | 75.8 | 4.3 | 0.507 |
| 4- 520 | 4-1040 | 0.658 | 191.3 | -9.0 | -2.07 | 1.366 | 118.0 | 0.888 | 6.815 | 300.1 | 505.6 | 0.761 | --- | 2.82 | 0.474 | 152.0 | 75.8 | 4.3 | 0.478 |
| 4- 520 | 4-1060 | 0.641 | 191.1 | -8.7 | -1.90 | 1.356 | 117.4 | 0.868 | 5.815 | 300.6 | 507.6 | 0.768 | --- | 2.67 | 0.447 | 150.1 | 75.6 | 4.3 | 0.451 |
| 4- 520 | 4-1080 | 0.626 | 190.9 | -8.3 | -1.75 | 1.348 | 116.8 | 0.850 | 5.159 | 301.1 | 509.6 | 0.773 | --- | 2.54 | 0.423 | 148.2 | 75.4 | 4.3 | 0.426 |
| 4- 520 | 4-1100 | 0.613 | 190.7 | -8.0 | -1.61 | 1.341 | 116.4 | 0.834 | 4.698 | 301.5 | 511.6 | 0.778 | --- | 2.42 | 0.400 | 146.2 | 75.1 | 4.3 | 0.403 |
| 4- 520 | 4-1120 | 0.602 | 190.6 | -7.8 | -1.49 | 1.335 | 116.0 | 0.821 | 4.358 | 301.8 | 513.5 | 0.782 | --- | 2.31 | 0.379 | 144.0 | 74.8 | 4.3 | 0.381 |
| 4- 520 | 4-1140 | 0.592 | 190.5 | -7.5 | -1.37 | 1.330 | 115.6 | 0.808 | 4.100 | 302.1 | 515.3 | 0.786 | --- | 2.21 | 0.360 | 141.8 | 74.3 | 4.3 | 0.362 |
| 4- 520 | 4-1160 | 0.584 | 190.4 | -7.3 | -1.27 | 1.325 | 115.3 | 0.798 | 3.898 | 302.3 | 517.1 | 0.789 | --- | 2.13 | 0.343 | 139.5 | 73.7 | 4.3 | 0.344 |
| 4- 520 | 4-1180 | 0.576 | 190.4 | -7.1 | -1.17 | 1.321 | 115.1 | 0.788 | 3.737 | 302.4 | 518.8 | 0.791 | --- | 2.05 | 0.327 | 137.1 | 73.1 | 4.3 | 0.328 |
| 4- 520 | 4-1200 | 0.571 | 190.4 | -6.9 | -1.08 | 1.317 | 114.9 | 0.780 | 3.607 | 302.5 | 520.5 | 0.793 | --- | 1.97 | 0.312 | 134.5 | 72.3 | 4.3 | 0.313 |
| 4- 520 | 4-1220 | 0.566 | 190.4 | -6.8 | -0.99 | 1.314 | 114.7 | 0.773 | 3.500 | 302.6 | 522.1 | 0.794 | --- | 1.91 | 0.299 | 131.9 | 71.5 | 4.3 | 0.299 |
| 4- 520 | 4-1240 | 0.562 | 190.5 | -6.6 | -0.91 | 1.311 | 114.6 | 0.767 | 3.411 | 302.6 | 523.7 | 0.795 | --- | 1.85 | 0.287 | 129.2 | 70.5 | 4.3 | 0.287 |
| 4- 520 | 4-1260 | 0.559 | 190.6 | -6.5 | -0.84 | 1.308 | 114.5 | 0.762 | 3.338 | 302.5 | 525.2 | 0.795 | --- | 1.79 | 0.277 | 126.4 | 69.5 | 4.3 | 0.276 |
| 4- 520 | 4-1280 | 0.557 | 190.8 | -6.4 | -0.76 | 1.306 | 114.5 | 0.757 | 3.276 | 302.4 | 526.7 | 0.795 | --- | 1.74 | 0.267 | 123.6 | 68.4 | 4.3 | 0.265 |
| 4- 520 | 4-1300 | 0.555 | 191.0 | -6.3 | -0.70 | 1.304 | 114.5 | 0.754 | 3.224 | 302.2 | 528.1 | 0.794 | --- | 1.69 | 0.259 | 120.7 | 67.2 | 4.3 | 0.256 |
| 4- 520 | 4-1320 | 0.555 | 191.2 | -6.3 | -0.63 | 1.303 | 114.5 | 0.751 | 3.180 | 301.9 | 529.4 | 0.793 | --- | 1.65 | 0.251 | 117.7 | 65.9 | 4.3 | 0.248 |
| 4- 520 | 4-1340 | 0.555 | 191.4 | -6.2 | -0.57 | 1.301 | 114.6 | 0.748 | 3.143 | 301.6 | 530.8 | 0.792 | --- | 1.61 | 0.245 | 114.7 | 64.6 | 4.3 | 0.241 |
| 4- 520 | 4-1360 | 0.556 | 191.7 | -6.2 | -0.51 | 1.300 | 114.7 | 0.746 | 3.112 | 301.3 | 532.0 | 0.790 | --- | 1.57 | 0.239 | 111.7 | 63.2 | 4.2 | 0.235 |
| 4- 520 | 4-1380 | 0.557 | 192.0 | -6.2 | -0.46 | 1.299 | 114.8 | 0.745 | 3.086 | 300.9 | 533.2 | 0.788 | --- | 1.53 | 0.234 | 108.6 | 61.8 | 4.2 | 0.230 |
| 4- 520 | 4-1400 | 0.559 | 192.3 | -6.2 | -0.40 | 1.298 | 115.0 | 0.744 | 3.064 | 300.5 | 534.4 | 0.785 | --- | 1.50 | 0.231 | 105.6 | 60.4 | 4.1 | 0.226 |
| 4- 520 | 4-1420 | 0.562 | 192.7 | -6.3 | -0.35 | 1.297 | 115.1 | 0.743 | 3.046 | 300.0 | 535.5 | 0.782 | --- | 1.47 | 0.227 | 102.6 | 59.0 | 4.1 | 0.222 |
| 4- 520 | 4-1440 | 0.565 | 193.1 | -6.3 | -0.30 | 1.297 | 115.4 | 0.743 | 3.031 | 299.5 | 536.6 | 0.779 | --- | 1.44 | 0.225 | 99.6 | 57.6 | 4.0 | 0.220 |
| 4- 520 | 4-1460 | 0.568 | 193.5 | -6.4 | -0.26 | 1.296 | 115.6 | 0.743 | 3.018 | 298.9 | 537.7 | 0.775 | --- | 1.42 | 0.223 | 96.6 | 56.3 | 4.0 | 0.218 |
| 4- 520 | 4-1480 | 0.572 | 194.0 | -6.4 | -0.21 | 1.296 | 115.9 | 0.744 | 3.008 | 298.3 | 538.7 | 0.771 | --- | 1.40 | 0.222 | 93.8 | 55.0 | 3.9 | 0.216 |
| 4- 520 | 4-1500 | 0.577 | 194.4 | -6.5 | -0.16 | 1.296 | 116.1 | 0.745 | 3.001 | 297.6 | 539.7 | 0.766 | --- | 1.37 | 0.221 | 91.0 | 53.8 | 3.9 | 0.216 |
| 4- 520 | 4-1520 | 0.582 | 194.9 | -6.6 | -0.12 | 1.295 | 116.4 | 0.746 | 2.995 | 296.9 | 540.6 | 0.762 | 5.228 | 1.35 | 0.221 | 88.2 | 52.6 | 3.8 | 0.216 |
| 4- 520 | 4-1540 | 0.587 | 195.4 | -6.7 | -0.08 | 1.295 | 116.8 | 0.747 | 2.991 | 296.1 | 541.5 | 0.756 | 5.225 | 1.34 | 0.221 | 85.6 | 51.6 | 3.8 | 0.216 |
| 4- 520 | 4-1560 | 0.593 | 195.9 | -6.9 | -0.04 | 1.295 | 117.1 | 0.749 | 2.988 | 295.4 | 542.4 | 0.751 | 5.226 | 1.32 | 0.221 | 83.0 | 50.6 | 3.7 | 0.217 |
| 4- 520 | 4-1580 | 0.600 | 196.4 | -7.0 | 0.01 | 1.295 | 117.5 | 0.751 | 2.987 | 294.5 | 543.2 | 0.745 | 5.230 | 1.30 | 0.222 | 80.5 | 49.8 | 3.6 | 0.219 |
| 4- 520 | 4-1600 | 0.606 | 197.0 | -7.1 | 0.05 | 1.295 | 117.9 | 0.753 | 2.988 | 293.7 | 544.0 | 0.739 | 5.237 | 1.29 | 0.224 | 78.1 | 49.0 | 3.6 | 0.221 |
| 4- 520 | 4-1620 | 0.614 | 197.6 | -7.3 | 0.09 | 1.295 | 118.3 | 0.755 | 2.989 | 292.8 | 544.8 | 0.732 | 5.246 | 1.28 | 0.225 | 75.8 | 48.4 | 3.5 | 0.223 |
| 4- 520 | 4-1640 | 0.621 | 198.1 | -7.4 | 0.12 | 1.295 | 118.8 | 0.758 | 2.991 | 291.8 | 545.5 | 0.725 | 5.258 | 1.27 | 0.227 | 73.6 | 47.9 | 3.5 | 0.226 |
| 4- 520 | 4-1660 | 0.629 | 198.7 | -7.6 | 0.16 | 1.295 | 119.2 | 0.760 | 2.995 | 290.8 | 546.2 | 0.718 | 5.272 | 1.25 | 0.229 | 71.5 | 47.5 | 3.5 | 0.229 |
| 4- 520 | 4-1680 | 0.637 | 199.4 | -7.8 | 0.20 | 1.295 | 119.7 | 0.763 | 2.999 | 289.8 | 546.8 | 0.710 | 5.288 | 1.25 | 0.231 | 69.4 | 47.2 | 3.4 | 0.232 |
| 4- 520 | 4-1700 | 0.646 | 200.0 | -8.0 | 0.24 | 1.296 | 120.2 | 0.766 | 3.004 | 288.8 | 547.5 | 0.702 | 5.306 | 1.24 | 0.234 | 67.5 | 47.0 | 3.4 | 0.236 |
| 4- 520 | 4-1720 | 0.655 | 200.6 | -8.2 | 0.27 | 1.296 | 120.7 | 0.770 | 3.009 | 287.7 | 548.1 | 0.693 | 5.325 | 1.23 | 0.236 | 65.6 | 46.9 | 3.3 | 0.240 |
| 4- 520 | 4-1740 | 0.665 | 201.3 | -8.4 | 0.31 | 1.296 | 121.3 | 0.773 | 3.016 | 286.6 | 548.7 | 0.684 | 5.347 | 1.23 | 0.239 | 63.7 | 46.9 | 3.3 | 0.244 |
| 4- 520 | 4-1760 | 0.675 | 201.9 | -8.6 | 0.35 | 1.296 | 121.8 | 0.777 | 3.022 | 285.4 | 549.2 | 0.675 | 5.370 | 1.22 | 0.241 | 62.0 | 47.0 | 3.3 | 0.248 |
| 4- 520 | 4-1780 | 0.685 | 202.6 | -8.8 | 0.38 | 1.297 | 122.4 | 0.780 | 3.030 | 284.2 | 549.7 | 0.666 | 5.394 | 1.22 | 0.244 | 60.3 | 47.2 | 3.3 | 0.253 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 520 | 4-1800 | 0.696 | 203.3 | -9.0 | 0.42 | 1.297 | 123.0 | 0.784 | 3.038 | 283.0 | 550.2 | 0.656 | 5.420 | 1.22 | 0.247 | 58.7 | 47.5 | 3.3 | 0.257 |
| 4- 520 | 4-1820 | 0.707 | 203.9 | -9.2 | 0.46 | 1.297 | 123.6 | 0.788 | 3.046 | 281.8 | 550.7 | 0.645 | 5.448 | 1.21 | 0.250 | 57.1 | 47.9 | 3.3 | 0.262 |
| 4- 520 | 4-1840 | 0.718 | 204.6 | -9.5 | 0.49 | 1.298 | 124.3 | 0.792 | 3.055 | 280.5 | 551.1 | 0.635 | 5.476 | 1.21 | 0.253 | 55.6 | 48.4 | 3.2 | 0.267 |
| 4- 520 | 4-1860 | 0.730 | 205.3 | -9.7 | 0.53 | 1.298 | 124.9 | 0.797 | 3.065 | 279.2 | 551.5 | 0.624 | 5.506 | 1.22 | 0.256 | 54.1 | 48.9 | 3.2 | 0.272 |
| 4- 520 | 4-1880 | 0.742 | 206.0 | -9.9 | 0.57 | 1.299 | 125.6 | 0.801 | 3.074 | 277.8 | 551.9 | 0.612 | 5.537 | 1.22 | 0.259 | 52.7 | 49.6 | 3.2 | 0.277 |
| 4- 520 | 4-1900 | 0.754 | 206.8 | -10.2 | 0.60 | 1.299 | 126.3 | 0.805 | 3.084 | 276.4 | 552.2 | 0.600 | 5.569 | 1.22 | 0.262 | 51.3 | 50.3 | 3.2 | 0.283 |
| 4- 520 | 4-1920 | 0.767 | 207.5 | -10.4 | 0.64 | 1.299 | 127.0 | 0.810 | 3.095 | 275.0 | 552.5 | 0.588 | 5.602 | 1.22 | 0.265 | 50.0 | 51.0 | 3.2 | 0.288 |
| 4- 520 | 4-1940 | 0.780 | 208.2 | -10.6 | 0.68 | 1.300 | 127.7 | 0.815 | 3.106 | 273.6 | 552.8 | 0.576 | 5.636 | 1.23 | 0.268 | 48.7 | 51.8 | 3.3 | 0.294 |
| 4- 520 | 4-1960 | 0.794 | 209.0 | -10.9 | 0.72 | 1.300 | 128.5 | 0.819 | 3.117 | 272.1 | 553.1 | 0.563 | 5.671 | 1.24 | 0.271 | 47.4 | 52.7 | 3.3 | 0.299 |
| 4- 520 | 4-1980 | 0.808 | 209.7 | -11.1 | 0.75 | 1.301 | 129.3 | 0.824 | 3.128 | 270.6 | 553.3 | 0.549 | 5.707 | 1.24 | 0.274 | 46.1 | 53.7 | 3.3 | 0.305 |
| 4- 520 | 4-2000 | 0.822 | 210.5 | -11.4 | 0.79 | 1.301 | 130.1 | 0.829 | 3.140 | 269.0 | 553.6 | 0.536 | 5.743 | 1.25 | 0.277 | 44.9 | 54.7 | 3.3 | 0.311 |
| 4- 520 | 4-2020 | 0.837 | 211.2 | -11.6 | 0.83 | 1.302 | 130.9 | 0.834 | 3.152 | 267.5 | 553.7 | 0.522 | 5.781 | 1.26 | 0.280 | 43.7 | 55.7 | 3.3 | 0.317 |
| 4- 520 | 4-2040 | 0.852 | 212.0 | -11.9 | 0.88 | 1.302 | 131.7 | 0.840 | 3.164 | 265.9 | 553.9 | 0.508 | 5.820 | 1.28 | 0.283 | 42.5 | 56.8 | 3.3 | 0.323 |
| 4- 520 | 4-2060 | 0.867 | 212.8 | -12.1 | 0.92 | 1.303 | 132.6 | 0.845 | 3.176 | 264.2 | 554.0 | 0.493 | 5.859 | 1.29 | 0.286 | 41.4 | 58.0 | 3.3 | 0.329 |
| 4- 520 | 4-2080 | 0.882 | 213.6 | -12.4 | 0.96 | 1.303 | 133.4 | 0.850 | 3.189 | 262.6 | 554.1 | 0.478 | 5.899 | 1.31 | 0.289 | 40.3 | 59.2 | 3.4 | 0.335 |
| 4- 520 | 4-2100 | 0.899 | 214.3 | -12.6 | 1.00 | 1.304 | 134.3 | 0.855 | 3.201 | 260.9 | 554.2 | 0.463 | 5.940 | 1.32 | 0.292 | 39.1 | 60.4 | 3.4 | 0.341 |
| 4- 520 | 4-2120 | 0.915 | 215.1 | -12.9 | 1.05 | 1.304 | 135.3 | 0.861 | 3.214 | 259.1 | 554.3 | 0.448 | 5.981 | 1.34 | 0.295 | 38.0 | 61.7 | 3.4 | 0.348 |
| 4- 530 | 4- 970 | 0.699 | 195.1 | -17.4 | -5.58 | 1.422 | 117.6 | 1.00 | 332.417 | 305.0 | 495.1 | 0.780 | --- | 6.37 | 0.612 | 157.8 | 76.9 | 5.4 | 0.611 |
| 4- 530 | 4- 990 | 0.670 | 195.0 | -16.0 | -4.73 | 1.406 | 116.6 | 0.96 | 724.111 | 305.8 | 497.4 | 0.789 | --- | 5.53 | 0.574 | 156.3 | 77.1 | 5.2 | 0.573 |
| 4- 530 | 4-1010 | 0.644 | 194.8 | -14.9 | -4.08 | 1.392 | 115.8 | 0.93 | 612.390 | 306.5 | 499.7 | 0.798 | --- | 4.89 | 0.539 | 154.7 | 77.2 | 5.1 | 0.537 |
| 4- 530 | 4-1030 | 0.622 | 194.6 | -14.0 | -3.56 | 1.379 | 115.0 | 0.908 | 8.738 | 307.2 | 501.9 | 0.805 | --- | 4.39 | 0.507 | 153.0 | 77.3 | 5.0 | 0.505 |
| 4- 530 | 4-1050 | 0.602 | 194.3 | -13.2 | -3.14 | 1.369 | 114.3 | 0.883 | 6.967 | 307.8 | 504.1 | 0.812 | --- | 3.98 | 0.478 | 151.2 | 77.3 | 4.9 | 0.476 |
| 4- 530 | 4-1070 | 0.585 | 194.1 | -12.5 | -2.78 | 1.360 | 113.7 | 0.862 | 5.927 | 308.4 | 506.2 | 0.818 | --- | 3.64 | 0.451 | 149.4 | 77.2 | 4.9 | 0.448 |
| 4- 530 | 4-1090 | 0.570 | 194.0 | -11.8 | -2.48 | 1.351 | 113.2 | 0.843 | 5.248 | 308.9 | 508.3 | 0.823 | --- | 3.36 | 0.427 | 147.5 | 77.0 | 4.8 | 0.423 |
| 4- 530 | 4-1110 | 0.557 | 193.8 | -11.3 | -2.23 | 1.344 | 112.7 | 0.827 | 4.772 | 309.4 | 510.3 | 0.828 | --- | 3.12 | 0.404 | 145.4 | 76.8 | 4.8 | 0.400 |
| 4- 530 | 4-1130 | 0.546 | 193.7 | -10.8 | -2.01 | 1.338 | 112.3 | 0.812 | 4.422 | 309.8 | 512.3 | 0.832 | --- | 2.91 | 0.384 | 143.3 | 76.4 | 4.7 | 0.379 |
| 4- 530 | 4-1150 | 0.536 | 193.6 | -10.3 | -1.81 | 1.333 | 112.0 | 0.799 | 4.157 | 310.1 | 514.2 | 0.835 | --- | 2.73 | 0.365 | 141.1 | 76.0 | 4.7 | 0.360 |
| 4- 530 | 4-1170 | 0.528 | 193.5 | -9.9 | -1.64 | 1.328 | 111.7 | 0.788 | 3.949 | 310.4 | 516.0 | 0.838 | --- | 2.57 | 0.348 | 138.8 | 75.5 | 4.7 | 0.342 |
| 4- 530 | 4-1190 | 0.520 | 193.5 | -9.6 | -1.48 | 1.324 | 111.4 | 0.778 | 3.784 | 310.6 | 517.8 | 0.840 | --- | 2.43 | 0.332 | 136.4 | 74.9 | 4.7 | 0.325 |
| 4- 530 | 4-1210 | 0.514 | 193.5 | -9.3 | -1.34 | 1.320 | 111.2 | 0.769 | 3.650 | 310.7 | 519.5 | 0.842 | --- | 2.31 | 0.318 | 134.0 | 74.1 | 4.7 | 0.310 |
| 4- 530 | 4-1230 | 0.509 | 193.5 | -9.0 | -1.22 | 1.317 | 111.0 | 0.762 | 3.540 | 310.8 | 521.2 | 0.843 | --- | 2.20 | 0.305 | 131.4 | 73.3 | 4.6 | 0.297 |
| 4- 530 | 4-1250 | 0.505 | 193.6 | -8.7 | -1.10 | 1.314 | 110.9 | 0.755 | 3.450 | 310.9 | 522.8 | 0.844 | --- | 2.10 | 0.293 | 128.8 | 72.4 | 4.6 | 0.284 |
| 4- 530 | 4-1270 | 0.502 | 193.7 | -8.5 | -1.00 | 1.312 | 110.8 | 0.750 | 3.374 | 310.8 | 524.3 | 0.845 | --- | 2.01 | 0.283 | 126.0 | 71.4 | 4.6 | 0.273 |
| 4- 530 | 4-1290 | 0.500 | 193.9 | -8.3 | -0.90 | 1.310 | 110.8 | 0.745 | 3.311 | 310.7 | 525.9 | 0.845 | --- | 1.93 | 0.274 | 123.3 | 70.4 | 4.6 | 0.262 |
| 4- 530 | 4-1310 | 0.498 | 194.1 | -8.2 | -0.81 | 1.308 | 110.8 | 0.741 | 3.258 | 310.6 | 527.3 | 0.844 | --- | 1.86 | 0.265 | 120.4 | 69.2 | 4.5 | 0.253 |
| 4- 530 | 4-1330 | 0.497 | 194.3 | -8.1 | -0.73 | 1.306 | 110.8 | 0.737 | 3.213 | 310.4 | 528.7 | 0.843 | --- | 1.79 | 0.258 | 117.6 | 68.0 | 4.5 | 0.245 |
| 4- 530 | 4-1350 | 0.497 | 194.6 | -8.0 | -0.65 | 1.305 | 110.9 | 0.735 | 3.175 | 310.1 | 530.1 | 0.842 | --- | 1.73 | 0.252 | 114.7 | 66.7 | 4.5 | 0.238 |
| 4- 530 | 4-1370 | 0.497 | 194.9 | -7.9 | -0.57 | 1.303 | 110.9 | 0.732 | 3.143 | 309.8 | 531.4 | 0.841 | --- | 1.68 | 0.246 | 111.7 | 65.3 | 4.4 | 0.231 |
| 4- 530 | 4-1390 | 0.498 | 195.3 | -7.8 | -0.50 | 1.302 | 111.1 | 0.731 | 3.116 | 309.5 | 532.6 | 0.839 | --- | 1.63 | 0.241 | 108.8 | 64.0 | 4.4 | 0.226 |
| 4- 530 | 4-1410 | 0.500 | 195.6 | -7.8 | -0.44 | 1.301 | 111.2 | 0.729 | 3.093 | 309.1 | 533.8 | 0.837 | --- | 1.58 | 0.238 | 105.9 | 62.6 | 4.4 | 0.221 |
| 4- 530 | 4-1430 | 0.502 | 196.0 | -7.8 | -0.38 | 1.301 | 111.4 | 0.728 | 3.074 | 308.6 | 535.0 | 0.835 | --- | 1.54 | 0.234 | 103.0 | 61.2 | 4.3 | 0.218 |
| 4- 530 | 4-1450 | 0.505 | 196.5 | -7.8 | -0.32 | 1.300 | 111.6 | 0.728 | 3.058 | 308.1 | 536.1 | 0.832 | --- | 1.50 | 0.232 | 100.2 | 59.8 | 4.2 | 0.215 |
| 4- 530 | 4-1470 | 0.508 | 196.9 | -7.9 | -0.26 | 1.299 | 111.8 | 0.728 | 3.045 | 307.6 | 537.2 | 0.829 | --- | 1.46 | 0.230 | 97.4 | 58.5 | 4.2 | 0.212 |
| 4- 530 | 4-1490 | 0.511 | 197.4 | -7.9 | -0.21 | 1.299 | 112.0 | 0.728 | 3.035 | 307.0 | 538.3 | 0.825 | --- | 1.43 | 0.229 | 94.6 | 57.1 | 4.1 | 0.211 |
| 4- 530 | 4-1510 | 0.515 | 197.9 | -8.0 | -0.16 | 1.299 | 112.3 | 0.729 | 3.027 | 306.4 | 539.3 | 0.822 | --- | 1.39 | 0.228 | 91.9 | 55.9 | 4.1 | 0.210 |
| 4- 530 | 4-1530 | 0.520 | 198.5 | -8.1 | -0.11 | 1.298 | 112.6 | 0.729 | 3.021 | 305.7 | 540.3 | 0.817 | 5.224 | 1.37 | 0.228 | 89.3 | 54.7 | 4.0 | 0.209 |
| 4- 530 | 4-1550 | 0.525 | 199.0 | -8.2 | -0.06 | 1.298 | 112.9 | 0.730 | 3.016 | 305.0 | 541.2 | 0.813 | 5.220 | 1.34 | 0.228 | 86.8 | 53.6 | 3.9 | 0.210 |
| 4- 530 | 4-1570 | 0.530 | 199.6 | -8.3 | -0.02 | 1.298 | 113.2 | 0.732 | 3.013 | 304.2 | 542.1 | 0.808 | 5.219 | 1.31 | 0.228 | 84.3 | 52.6 | 3.9 | 0.210 |
| 4- 530 | 4-1590 | 0.536 | 200.2 | -8.4 | 0.03 | 1.298 | 113.5 | 0.733 | 3.012 | 303.4 | 543.0 | 0.803 | 5.221 | 1.29 | 0.229 | 82.0 | 51.7 | 3.8 | 0.212 |
| 4- 530 | 4-1610 | 0.542 | 200.8 | -8.6 | 0.07 | 1.298 | 113.9 | 0.735 | 3.012 | 302.6 | 543.8 | 0.798 | 5.226 | 1.27 | 0.230 | 79.7 | 50.9 | 3.7 | 0.213 |
| 4- 530 | 4-1630 | 0.548 | 201.4 | -8.7 | 0.11 | 1.298 | 114.3 | 0.737 | 3.013 | 301.7 | 544.6 | 0.792 | 5.234 | 1.25 | 0.232 | 77.5 | 50.2 | 3.7 | 0.215 |
| 4- 530 | 4-1650 | 0.555 | 202.0 | -8.9 | 0.15 | 1.298 | 114.7 | 0.739 | 3.015 | 300.8 | 545.4 | 0.786 | 5.244 | 1.23 | 0.233 | 75.4 | 49.7 | 3.6 | 0.217 |
| 4- 530 | 4-1670 | 0.562 | 202.7 | -9.1 | 0.19 | 1.298 | 115.1 | 0.742 | 3.018 | 299.9 | 546.1 | 0.780 | 5.256 | 1.22 | 0.235 | 73.3 | 49.2 | 3.6 | 0.220 |
| 4- 530 | 4-1690 | 0.570 | 203.4 | -9.2 | 0.23 | 1.299 | 115.6 | 0.744 | 3.022 | 298.9 | 546.8 | 0.773 | 5.271 | 1.20 | 0.237 | 71.4 | 48.8 | 3.5 | 0.223 |
| 4- 530 | 4-1710 | 0.578 | 204.0 | -9.4 | 0.27 | 1.299 | 116.1 | 0.747 | 3.027 | 297.9 | 547.5 | 0.766 | 5.287 | 1.19 | 0.239 | 69.5 | 48.6 | 3.5 | 0.226 |
| 4- 530 | 4-1730 | 0.586 | 204.7 | -9.6 | 0.31 | 1.299 | 116.5 | 0.750 | 3.032 | 296.9 | 548.1 | 0.759 | 5.305 | 1.17 | 0.242 | 67.7 | 48.4 | 3.4 | 0.230 |
| 4- 530 | 4-1750 | 0.595 | 205.4 | -9.8 | 0.34 | 1.299 | 117.0 | 0.753 | 3.038 | 295.8 | 548.7 | 0.751 | 5.325 | 1.16 | 0.244 | 65.9 | 48.4 | 3.4 | 0.234 |
| 4- 530 | 4-1770 | 0.604 | 206.1 | -10.0 | 0.38 | 1.299 | 117.6 | 0.756 | 3.045 | 294.7 | 549.3 | 0.743 | 5.347 | 1.15 | 0.247 | 64.3 | 48.4 | 3.4 | 0.238 |
| 4- 530 | 4-1790 | 0.614 | 206.9 | -10.3 | 0.41 | 1.300 | 118.1 | 0.759 | 3.052 | 293.5 | 549.9 | 0.735 | 5.369 | 1.14 | 0.250 | 62.7 | 48.6 | 3.4 | 0.242 |
| 4- 530 | 4-1810 | 0.623 | 207.6 | -10.5 | 0.45 | 1.300 | 118.7 | 0.763 | 3.060 | 292.4 | 550.4 | 0.726 | 5.394 | 1.14 | 0.252 | 61.1 | 48.8 | 3.3 | 0.246 |
| 4- 530 | 4-1830 | 0.634 | 208.3 | -10.7 | 0.48 | 1.300 | 119.2 | 0.766 | 3.068 | 291.2 | 550.9 | 0.717 | 5.419 | 1.13 | 0.255 | 59.6 | 49.2 | 3.3 | 0.250 |
| 4- 530 | 4-1850 | 0.644 | 209.1 | -10.9 | 0.52 | 1.301 | 119.8 | 0.770 | 3.077 | 289.9 | 551.4 | 0.707 | 5.446 | 1.12 | 0.258 | 58.1 | 49.6 | 3.3 | 0.255 |
| 4- 530 | 4-1870 | 0.655 | 209.8 | -11.2 | 0.55 | 1.301 | 120.5 | 0.774 | 3.086 | 288.6 | 551.9 | 0.697 | 5.474 | 1.12 | 0.261 | 56.7 | 50.0 | 3.3 | 0.260 |
| 4- 530 | 4-1890 | 0.666 | 210.6 | -11.4 | 0.58 | 1.302 | 121.1 | 0.778 | 3.095 | 287.3 | 552.3 | 0.687 | 5.503 | 1.12 | 0.264 | 55.4 | 50.6 | 3.3 | 0.265 |
| 4- 530 | 4-1910 | 0.678 | 211.4 | -11.6 | 0.62 | 1.302 | 121.7 | 0.782 | 3.105 | 286.0 | 552.7 | 0.676 | 5.534 | 1.11 | 0.267 | 54.1 | 51.2 | 3.3 | 0.270 |
| 4- 530 | 4-1930 | 0.689 | 212.1 | -11.9 | 0.65 | 1.302 | 122.4 | 0.786 | 3.115 | 284.7 | 553.1 | 0.665 | 5.565 | 1.11 | 0.269 | 52.8 | 52.0 | 3.3 | 0.275 |
| 4- 530 | 4-1950 | 0.702 | 212.9 | -12.1 | 0.69 | 1.303 | 123.1 | 0.791 | 3.126 | 283.3 | 553.4 | 0.654 | 5.598 | 1.11 | 0.272 | 51.5 | 52.7 | 3.3 | 0.280 |
| 4- 530 | 4-1970 | 0.714 | 213.7 | -12.4 | 0.72 | 1.303 | 123.8 | 0.795 | 3.137 | 281.8 | 553.7 | 0.642 | 5.631 | 1.11 | 0.275 | 50.3 | 53.6 | 3.3 | 0.285 |
| 4- 530 | 4-1990 | 0.727 | 214.5 | -12.6 | 0.75 | 1.304 | 124.5 | 0.800 | 3.148 | 280.4 | 554.0 | 0.630 | 5.665 | 1.11 | 0.278 | 49.1 | 54.4 | 3.3 | 0.290 |
| 4- 530 | 4-2010 | 0.740 | 215.3 | -12.9 | 0.79 | 1.304 | 125.3 | 0.804 | 3.159 | 278.9 | 554.3 | 0.618 | 5.700 | 1.12 | 0.281 | 48.0 | 55.4 | 3.3 | 0.296 |
| 4- 530 | 4-2030 | 0.754 | 216.1 | -13.1 | 0.82 | 1.304 | 126.0 | 0.809 | 3.171 | 277.4 | 554.5 | 0.605 | 5.736 | 1.12 | 0.284 | 46.8 | 56.4 | 3.3 | 0.301 |
| 4- 530 | 4-2050 | 0.768 | 216.9 | -13.4 | 0.86 | 1.305 | 126.8 | 0.814 | 3.183 | 275.8 | 554.8 | 0.592 | 5.773 | 1.13 | 0.287 | 45.7 | 57.4 | 3.3 | 0.307 |
| 4- 530 | 4-2070 | 0.782 | 217.7 | -13.6 | 0.89 | 1.305 | 127.6 | 0.819 | 3.195 | 274.3 | 555.0 | 0.578 | 5.811 | 1.13 | 0.290 | 44.6 | 58.5 | 3.4 | 0.313 |
| 4- 530 | 4-2090 | 0.797 | 218.5 | -13.9 | 0.93 | 1.306 | 128.4 | 0.824 | 3.207 | 272.7 | 555.1 | 0.564 | 5.849 | 1.14 | 0.293 | 43.6 | 59.7 | 3.4 | 0.318 |
| 4- 530 | 4-2110 | 0.812 | 219.3 | -14.1 | 0.97 | 1.306 | 129.2 | 0.829 | 3.219 | 271.0 | 555.3 | 0.550 | 5.889 | 1.15 | 0.295 | 42.5 | 60.9 | 3.4 | 0.324 |
| 4- 530 | 4-2130 | 0.827 | 220.2 | -14.4 | 1.00 | 1.307 | 130.1 | 0.834 | 3.232 | 269.4 | 555.4 | 0.536 | 5.929 | 1.16 | 0.298 | 41.5 | 62.1 | 3.4 | 0.330 |
| 4- 540 | 4-1000 | 0.749 | 189.5 | -49.4 | -22.18 | 1.408 | 112.8 | 0.96 | 624.553 | 313.5 | 496.0 | 0.838 | --- | 23.07 | 0.575 | 155.5 | 76.7 | 12.2 | 0.582 |
| 4- 540 | 4-1020 | 0.639 | 191.9 | -35.6 | -13.37 | 1.394 | 112.0 | 0.93 | 312.552 | 314.4 | 498.3 | 0.846 | --- | 14.27 | 0.540 | 153.9 | 77.9 | 9.2 | 0.539 |
| 4- 540 | 4-1040 | 0.591 | 193.3 | -28.3 | -9.37 | 1.382 | 111.2 | 0.904 | 8.837 | 315.1 | 500.6 | 0.853 | --- | 10.28 | 0.509 | 152.2 | 78.3 | 7.8 | 0.504 |
| 4- 540 | 4-1060 | 0.560 | 194.1 | -23.9 | -7.09 | 1.371 | 110.6 | 0.878 | 7.041 | 315.9 | 502.9 | 0.859 | --- | 8.02 | 0.480 | 150.5 | 78.4 | 7.0 | 0.473 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 540 | 4-1080 | 0.538 | 194.5 | -20.8 | -5.63 | 1.362 | 110.0 | 0.856 | 5.987 | 316.5 | 505.1 | 0.864 | --- | 6.57 | 0.453 | 148.7 | 78.4 | 6.5 | 0.446 |
| 4- 540 | 4-1100 | 0.520 | 194.7 | -18.6 | -4.62 | 1.354 | 109.4 | 0.836 | 5.298 | 317.1 | 507.2 | 0.869 | --- | 5.57 | 0.429 | 146.7 | 78.3 | 6.1 | 0.421 |
| 4- 540 | 4-1120 | 0.506 | 194.8 | -16.9 | -3.87 | 1.347 | 109.0 | 0.819 | 4.816 | 317.6 | 509.3 | 0.873 | --- | 4.83 | 0.407 | 144.7 | 78.1 | 5.9 | 0.398 |
| 4- 540 | 4-1140 | 0.494 | 194.9 | -15.6 | -3.29 | 1.341 | 108.6 | 0.804 | 4.463 | 318.1 | 511.3 | 0.876 | --- | 4.27 | 0.387 | 142.6 | 77.8 | 5.7 | 0.377 |
| 4- 540 | 4-1160 | 0.483 | 195.0 | -14.5 | -2.83 | 1.335 | 108.2 | 0.790 | 4.194 | 318.4 | 513.2 | 0.879 | --- | 3.83 | 0.368 | 140.4 | 77.4 | 5.5 | 0.357 |
| 4- 540 | 4-1180 | 0.474 | 195.0 | -13.5 | -2.46 | 1.331 | 107.9 | 0.779 | 3.984 | 318.8 | 515.1 | 0.882 | --- | 3.47 | 0.351 | 138.1 | 76.9 | 5.4 | 0.339 |
| 4- 540 | 4-1200 | 0.467 | 195.1 | -12.7 | -2.15 | 1.327 | 107.7 | 0.768 | 3.817 | 319.0 | 516.9 | 0.884 | --- | 3.17 | 0.336 | 135.8 | 76.4 | 5.3 | 0.323 |
| 4- 540 | 4-1220 | 0.461 | 195.1 | -12.1 | -1.89 | 1.323 | 107.5 | 0.759 | 3.681 | 319.2 | 518.7 | 0.886 | --- | 2.92 | 0.322 | 133.3 | 75.7 | 5.2 | 0.308 |
| 4- 540 | 4-1240 | 0.456 | 195.3 | -11.5 | -1.66 | 1.320 | 107.3 | 0.752 | 3.570 | 319.3 | 520.4 | 0.887 | --- | 2.71 | 0.309 | 130.8 | 74.9 | 5.1 | 0.294 |
| 4- 540 | 4-1260 | 0.451 | 195.4 | -11.0 | -1.47 | 1.317 | 107.2 | 0.745 | 3.479 | 319.4 | 522.1 | 0.888 | --- | 2.53 | 0.298 | 128.2 | 74.0 | 5.1 | 0.281 |
| 4- 540 | 4-1280 | 0.448 | 195.6 | -10.6 | -1.30 | 1.315 | 107.1 | 0.739 | 3.402 | 319.4 | 523.7 | 0.888 | --- | 2.38 | 0.288 | 125.5 | 73.1 | 5.0 | 0.270 |
| 4- 540 | 4-1300 | 0.446 | 195.8 | -10.2 | -1.15 | 1.312 | 107.1 | 0.734 | 3.338 | 319.4 | 525.2 | 0.888 | --- | 2.24 | 0.278 | 122.8 | 72.0 | 4.9 | 0.259 |
| 4- 540 | 4-1320 | 0.444 | 196.0 | -9.9 | -1.01 | 1.310 | 107.1 | 0.730 | 3.284 | 319.2 | 526.7 | 0.888 | --- | 2.12 | 0.270 | 120.1 | 70.9 | 4.9 | 0.250 |
| 4- 540 | 4-1340 | 0.443 | 196.3 | -9.7 | -0.89 | 1.309 | 107.1 | 0.726 | 3.239 | 319.1 | 528.1 | 0.888 | --- | 2.01 | 0.263 | 117.3 | 69.7 | 4.8 | 0.242 |
| 4- 540 | 4-1360 | 0.442 | 196.7 | -9.5 | -0.78 | 1.307 | 107.1 | 0.723 | 3.200 | 318.9 | 529.5 | 0.887 | --- | 1.91 | 0.257 | 114.5 | 68.4 | 4.8 | 0.234 |
| 4- 540 | 4-1380 | 0.442 | 197.0 | -9.3 | -0.68 | 1.306 | 107.2 | 0.720 | 3.168 | 318.6 | 530.9 | 0.886 | --- | 1.83 | 0.252 | 111.6 | 67.1 | 4.7 | 0.228 |
| 4- 540 | 4-1400 | 0.443 | 197.4 | -9.2 | -0.59 | 1.305 | 107.3 | 0.718 | 3.140 | 318.3 | 532.1 | 0.884 | --- | 1.75 | 0.247 | 108.8 | 65.8 | 4.6 | 0.222 |
| 4- 540 | 4-1420 | 0.444 | 197.9 | -9.1 | -0.50 | 1.304 | 107.4 | 0.717 | 3.117 | 317.9 | 533.4 | 0.883 | --- | 1.68 | 0.243 | 106.0 | 64.4 | 4.6 | 0.218 |
| 4- 540 | 4-1440 | 0.446 | 198.3 | -9.0 | -0.42 | 1.303 | 107.6 | 0.716 | 3.098 | 317.5 | 534.6 | 0.881 | --- | 1.62 | 0.240 | 103.2 | 63.0 | 4.5 | 0.214 |
| 4- 540 | 4-1460 | 0.448 | 198.8 | -9.0 | -0.35 | 1.303 | 107.8 | 0.715 | 3.082 | 317.0 | 535.7 | 0.878 | --- | 1.56 | 0.238 | 100.5 | 61.6 | 4.4 | 0.210 |
| 4- 540 | 4-1480 | 0.451 | 199.4 | -9.0 | -0.28 | 1.302 | 108.0 | 0.715 | 3.069 | 316.5 | 536.9 | 0.876 | --- | 1.51 | 0.236 | 97.8 | 60.3 | 4.4 | 0.208 |
| 4- 540 | 4-1500 | 0.454 | 199.9 | -9.0 | -0.22 | 1.302 | 108.2 | 0.715 | 3.058 | 315.9 | 537.9 | 0.873 | --- | 1.46 | 0.235 | 95.1 | 59.0 | 4.3 | 0.206 |
| 4- 540 | 4-1520 | 0.457 | 200.5 | -9.1 | -0.16 | 1.302 | 108.4 | 0.715 | 3.050 | 315.3 | 539.0 | 0.870 | --- | 1.41 | 0.234 | 92.6 | 57.7 | 4.2 | 0.205 |
| 4- 540 | 4-1540 | 0.461 | 201.1 | -9.2 | -0.10 | 1.301 | 108.7 | 0.715 | 3.043 | 314.6 | 540.0 | 0.867 | --- | 1.37 | 0.234 | 90.1 | 56.5 | 4.1 | 0.204 |
| 4- 540 | 4-1560 | 0.466 | 201.7 | -9.3 | -0.04 | 1.301 | 109.0 | 0.716 | 3.039 | 314.0 | 540.9 | 0.863 | 5.215 | 1.34 | 0.234 | 87.6 | 55.4 | 4.1 | 0.204 |
| 4- 540 | 4-1580 | 0.470 | 202.4 | -9.4 | 0.01 | 1.301 | 109.3 | 0.717 | 3.036 | 313.2 | 541.9 | 0.859 | 5.213 | 1.30 | 0.234 | 85.3 | 54.4 | 4.0 | 0.204 |
| 4- 540 | 4-1600 | 0.475 | 203.1 | -9.5 | 0.06 | 1.301 | 109.6 | 0.718 | 3.034 | 312.5 | 542.8 | 0.855 | 5.214 | 1.27 | 0.235 | 83.0 | 53.4 | 3.9 | 0.205 |
| 4- 540 | 4-1620 | 0.481 | 203.8 | -9.6 | 0.10 | 1.301 | 110.0 | 0.720 | 3.034 | 311.7 | 543.6 | 0.850 | 5.217 | 1.24 | 0.236 | 80.8 | 52.6 | 3.8 | 0.207 |
| 4- 540 | 4-1640 | 0.487 | 204.5 | -9.8 | 0.15 | 1.301 | 110.4 | 0.721 | 3.035 | 310.8 | 544.4 | 0.846 | 5.224 | 1.21 | 0.237 | 78.7 | 51.9 | 3.8 | 0.208 |
| 4- 540 | 4-1660 | 0.493 | 205.2 | -10.0 | 0.19 | 1.301 | 110.7 | 0.723 | 3.037 | 309.9 | 545.2 | 0.841 | 5.233 | 1.19 | 0.239 | 76.7 | 51.3 | 3.7 | 0.210 |
| 4- 540 | 4-1680 | 0.499 | 205.9 | -10.1 | 0.23 | 1.301 | 111.1 | 0.725 | 3.040 | 309.0 | 546.0 | 0.835 | 5.244 | 1.16 | 0.241 | 74.8 | 50.8 | 3.6 | 0.213 |
| 4- 540 | 4-1700 | 0.506 | 206.7 | -10.3 | 0.27 | 1.301 | 111.6 | 0.727 | 3.043 | 308.1 | 546.8 | 0.830 | 5.257 | 1.14 | 0.243 | 72.9 | 50.3 | 3.6 | 0.216 |
| 4- 540 | 4-1720 | 0.514 | 207.4 | -10.5 | 0.31 | 1.301 | 112.0 | 0.730 | 3.048 | 307.1 | 547.5 | 0.824 | 5.272 | 1.12 | 0.245 | 71.1 | 50.0 | 3.5 | 0.218 |
| 4- 540 | 4-1740 | 0.521 | 208.2 | -10.7 | 0.35 | 1.302 | 112.5 | 0.732 | 3.053 | 306.1 | 548.1 | 0.817 | 5.289 | 1.11 | 0.247 | 69.4 | 49.9 | 3.5 | 0.222 |
| 4- 540 | 4-1760 | 0.529 | 209.0 | -10.9 | 0.39 | 1.302 | 112.9 | 0.735 | 3.059 | 305.1 | 548.8 | 0.811 | 5.307 | 1.09 | 0.249 | 67.7 | 49.8 | 3.5 | 0.225 |
| 4- 540 | 4-1780 | 0.537 | 209.8 | -11.2 | 0.42 | 1.302 | 113.4 | 0.738 | 3.066 | 304.0 | 549.4 | 0.804 | 5.327 | 1.07 | 0.252 | 66.1 | 49.8 | 3.4 | 0.229 |
| 4- 540 | 4-1800 | 0.546 | 210.6 | -11.4 | 0.46 | 1.302 | 113.9 | 0.741 | 3.073 | 302.9 | 550.0 | 0.797 | 5.349 | 1.06 | 0.254 | 64.5 | 49.9 | 3.4 | 0.232 |
| 4- 540 | 4-1820 | 0.555 | 211.4 | -11.6 | 0.49 | 1.303 | 114.5 | 0.744 | 3.080 | 301.7 | 550.6 | 0.789 | 5.372 | 1.05 | 0.257 | 63.1 | 50.1 | 3.4 | 0.236 |
| 4- 540 | 4-1840 | 0.564 | 212.2 | -11.9 | 0.52 | 1.303 | 115.0 | 0.747 | 3.089 | 300.6 | 551.1 | 0.781 | 5.396 | 1.03 | 0.260 | 61.6 | 50.3 | 3.3 | 0.241 |
| 4- 540 | 4-1860 | 0.574 | 213.0 | -12.1 | 0.56 | 1.303 | 115.6 | 0.750 | 3.097 | 299.4 | 551.7 | 0.773 | 5.421 | 1.02 | 0.262 | 60.2 | 50.7 | 3.3 | 0.245 |
| 4- 540 | 4-1880 | 0.584 | 213.9 | -12.3 | 0.59 | 1.304 | 116.1 | 0.754 | 3.106 | 298.1 | 552.1 | 0.764 | 5.448 | 1.02 | 0.265 | 58.9 | 51.1 | 3.3 | 0.249 |
| 4- 540 | 4-1900 | 0.594 | 214.7 | -12.6 | 0.62 | 1.304 | 116.7 | 0.757 | 3.115 | 296.9 | 552.6 | 0.756 | 5.475 | 1.01 | 0.268 | 57.6 | 51.7 | 3.3 | 0.254 |
| 4- 540 | 4-1920 | 0.605 | 215.5 | -12.8 | 0.65 | 1.305 | 117.3 | 0.761 | 3.125 | 295.6 | 553.1 | 0.746 | 5.504 | 1.00 | 0.271 | 56.4 | 52.2 | 3.3 | 0.258 |
| 4- 540 | 4-1940 | 0.616 | 216.4 | -13.1 | 0.68 | 1.305 | 118.0 | 0.765 | 3.135 | 294.3 | 553.5 | 0.737 | 5.534 | 0.99 | 0.274 | 55.1 | 52.9 | 3.3 | 0.263 |
| 4- 540 | 4-1960 | 0.627 | 217.2 | -13.3 | 0.71 | 1.305 | 118.6 | 0.769 | 3.146 | 292.9 | 553.9 | 0.727 | 5.565 | 0.99 | 0.276 | 53.9 | 53.6 | 3.3 | 0.268 |
| 4- 540 | 4-1980 | 0.639 | 218.1 | -13.6 | 0.74 | 1.306 | 119.3 | 0.773 | 3.156 | 291.5 | 554.3 | 0.716 | 5.596 | 0.98 | 0.279 | 52.8 | 54.4 | 3.3 | 0.273 |
| 4- 540 | 4-2000 | 0.650 | 218.9 | -13.8 | 0.77 | 1.306 | 119.9 | 0.777 | 3.167 | 290.1 | 554.6 | 0.705 | 5.629 | 0.98 | 0.282 | 51.7 | 55.3 | 3.3 | 0.278 |
| 4- 540 | 4-2020 | 0.663 | 219.8 | -14.1 | 0.80 | 1.307 | 120.6 | 0.782 | 3.178 | 288.7 | 554.9 | 0.694 | 5.662 | 0.98 | 0.285 | 50.6 | 56.2 | 3.3 | 0.283 |
| 4- 540 | 4-2040 | 0.675 | 220.7 | -14.3 | 0.83 | 1.307 | 121.3 | 0.786 | 3.190 | 287.2 | 555.2 | 0.683 | 5.697 | 0.98 | 0.288 | 49.5 | 57.1 | 3.3 | 0.288 |
| 4- 540 | 4-2060 | 0.688 | 221.5 | -14.6 | 0.86 | 1.307 | 122.1 | 0.790 | 3.202 | 285.7 | 555.5 | 0.671 | 5.732 | 0.98 | 0.290 | 48.5 | 58.1 | 3.3 | 0.293 |
| 4- 540 | 4-2080 | 0.702 | 222.4 | -14.8 | 0.89 | 1.308 | 122.8 | 0.795 | 3.213 | 284.2 | 555.7 | 0.659 | 5.768 | 0.98 | 0.293 | 47.4 | 59.2 | 3.3 | 0.298 |
| 4- 540 | 4-2100 | 0.715 | 223.3 | -15.1 | 0.92 | 1.308 | 123.6 | 0.800 | 3.226 | 282.7 | 556.0 | 0.646 | 5.805 | 0.98 | 0.296 | 46.4 | 60.3 | 3.4 | 0.304 |
| 4- 540 | 4-2120 | 0.729 | 224.1 | -15.3 | 0.95 | 1.309 | 124.4 | 0.804 | 3.238 | 281.1 | 556.2 | 0.633 | 5.843 | 0.98 | 0.299 | 45.4 | 61.4 | 3.4 | 0.309 |
| 4- 540 | 4-2140 | 0.744 | 225.0 | -15.6 | 0.98 | 1.309 | 125.2 | 0.809 | 3.250 | 279.5 | 556.4 | 0.620 | 5.881 | 0.98 | 0.301 | 44.4 | 62.6 | 3.4 | 0.315 |
| 4- 550 | 4- 950 | 0.641 | 210.4 | -1.1 | 4.94 | 1.464 | 111.6 | 1.101 | -8.521 | 318.9 | 487.2 | 0.860 | --- | -4.00 | 0.698 | 159.1 | 79.1 | 1.6 | 0.688 |
| 4- 550 | 4- 970 | 0.610 | 210.3 | 0.8 | 5.55 | 1.443 | 110.5 | 1.048 | 18.131 | 319.9 | 489.8 | 0.869 | --- | -4.60 | 0.653 | 157.7 | 79.3 | 1.2 | 0.642 |
| 4- 550 | 4- 990 | 0.585 | 210.5 | 3.3 | 6.38 | 1.424 | 109.6 | 1.002 | 03.175 | 320.9 | 492.3 | 0.877 | --- | -5.41 | 0.611 | 156.3 | 79.5 | 0.8 | 0.600 |
| 4- 550 | 4-1010 | 0.566 | 211.2 | 6.6 | 7.56 | 1.408 | 108.7 | 0.963 | 23.598 | 321.9 | 494.8 | 0.884 | --- | -6.59 | 0.573 | 154.8 | 79.7 | 0.2 | 0.563 |
| 4- 550 | 4-1030 | 0.556 | 212.8 | 11.2 | 9.40 | 1.395 | 107.9 | 0.928 | 12.373 | 322.8 | 497.2 | 0.890 | --- | -8.42 | 0.539 | 153.2 | 79.7 | -0.8 | 0.529 |
| 4- 550 | 4-1050 | 0.564 | 216.3 | 18.4 | 12.66 | 1.383 | 107.2 | 0.898 | 8.782 | 323.6 | 499.6 | 0.896 | --- | -11.66 | 0.508 | 151.5 | 79.5 | -2.6 | 0.500 |
| 4- 550 | 4-1070 | 0.628 | 225.7 | 30.6 | 19.87 | 1.372 | 106.5 | 0.872 | 7.023 | 324.4 | 501.9 | 0.901 | --- | -18.86 | 0.479 | 149.7 | 78.6 | -6.4 | 0.478 |
| 4- 550 | 4-1090 | 1.015 | 263.4 | 45.1 | 45.97 | 1.363 | 105.9 | 0.849 | 5.985 | 325.3 | 504.1 | 0.907 | --- | -44.95 | 0.453 | 147.9 | 72.4 | -16.9 | 0.503 |
| 4- 550 | 4-1110 | 1.011 | 151.3 | -85.3 | -46.11 | 1.356 | 105.7 | 0.829 | 5.305 | 325.3 | 506.4 | 0.908 | --- | 47.14 | 0.430 | 146.0 | 70.6 | 24.1 | 0.488 |
| 4- 550 | 4-1130 | 0.577 | 182.7 | -51.5 | -18.23 | 1.349 | 105.1 | 0.811 | 4.828 | 326.1 | 508.5 | 0.912 | --- | 19.27 | 0.408 | 144.0 | 77.6 | 14.2 | 0.407 |
| 4- 550 | 4-1150 | 0.487 | 188.4 | -36.3 | -10.73 | 1.343 | 104.7 | 0.796 | 4.476 | 326.6 | 510.6 | 0.915 | --- | 11.78 | 0.388 | 141.9 | 78.4 | 10.4 | 0.378 |
| 4- 550 | 4-1170 | 0.453 | 191.0 | -28.3 | -7.39 | 1.337 | 104.4 | 0.782 | 4.209 | 327.1 | 512.6 | 0.918 | --- | 8.45 | 0.370 | 139.7 | 78.3 | 8.7 | 0.356 |
| 4- 550 | 4-1190 | 0.435 | 192.4 | -23.4 | -5.51 | 1.333 | 104.1 | 0.770 | 4.600 | 327.4 | 514.5 | 0.920 | --- | 6.58 | 0.353 | 137.4 | 78.0 | 7.7 | 0.337 |
| 4- 550 | 4-1210 | 0.423 | 193.3 | -20.1 | -4.31 | 1.329 | 103.9 | 0.760 | 3.834 | 327.7 | 516.4 | 0.921 | --- | 5.39 | 0.338 | 135.0 | 77.5 | 7.0 | 0.320 |
| 4- 550 | 4-1230 | 0.414 | 194.0 | -17.7 | -3.47 | 1.325 | 103.7 | 0.751 | 3.699 | 328.0 | 518.2 | 0.923 | --- | 4.56 | 0.324 | 132.6 | 76.9 | 6.6 | 0.305 |
| 4- 550 | 4-1250 | 0.408 | 194.5 | -16.0 | -2.85 | 1.322 | 103.5 | 0.743 | 3.588 | 328.1 | 519.9 | 0.924 | --- | 3.96 | 0.312 | 130.1 | 76.1 | 6.2 | 0.291 |
| 4- 550 | 4-1270 | 0.403 | 194.9 | -14.6 | -2.38 | 1.319 | 103.4 | 0.736 | 3.497 | 328.2 | 521.6 | 0.924 | --- | 3.50 | 0.301 | 127.6 | 75.3 | 6.0 | 0.278 |
| 4- 550 | 4-1290 | 0.399 | 195.3 | -13.5 | -2.00 | 1.317 | 103.3 | 0.730 | 3.421 | 328.3 | 523.2 | 0.925 | --- | 3.13 | 0.291 | 124.9 | 74.4 | 5.8 | 0.267 |
| 4- 550 | 4-1310 | 0.396 | 195.7 | -12.6 | -1.70 | 1.315 | 103.3 | 0.724 | 3.357 | 328.2 | 524.8 | 0.925 | --- | 2.84 | 0.282 | 122.3 | 73.3 | 5.6 | 0.256 |
| 4- 550 | 4-1330 | 0.394 | 196.1 | -11.9 | -1.44 | 1.313 | 103.3 | 0.720 | 3.303 | 328.1 | 526.3 | 0.925 | --- | 2.59 | 0.274 | 119.6 | 72.2 | 5.4 | 0.247 |
| 4- 550 | 4-1350 | 0.393 | 196.6 | -11.4 | -1.23 | 1.311 | 103.3 | 0.716 | 3.257 | 328.0 | 527.8 | 0.925 | --- | 2.39 | 0.267 | 116.8 | 71.1 | 5.3 | 0.239 |
| 4- 550 | 4-1370 | 0.392 | 197.0 | -10.9 | -1.04 | 1.310 | 103.3 | 0.713 | 3.219 | 327.8 | 529.2 | 0.924 | --- | 2.22 | 0.261 | 114.1 | 69.8 | 5.2 | 0.231 |
| 4- 550 | 4-1390 | 0.392 | 197.5 | -10.5 | -0.88 | 1.309 | 103.4 | 0.710 | 3.186 | 327.5 | 530.5 | 0.923 | --- | 2.07 | 0.256 | 111.3 | 68.5 | 5.1 | 0.225 |
| 4- 550 | 4-1410 | 0.392 | 198.0 | -10.2 | -0.74 | 1.307 | 103.5 | 0.708 | 3.159 | 327.2 | 531.8 | 0.922 | --- | 1.94 | 0.251 | 108.6 | 67.2 | 4.9 | 0.219 |
| 4- 550 | 4-1430 | 0.393 | 198.6 | -10.0 | -0.62 | 1.307 | 103.6 | 0.706 | 3.136 | 326.9 | 533.1 | 0.921 | --- | 1.83 | 0.248 | 105.9 | 65.8 | 4.8 | 0.214 |
| 4- 550 | 4-1450 | 0.394 | 199.1 | -9.9 | -0.51 | 1.306 | 103.8 | 0.705 | 3.117 | 326.5 | 534.3 | 0.919 | --- | 1.73 | 0.245 | 103.2 | 64.5 | 4.7 | 0.210 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 550 | 4-1470 | 0.396 | 199.8 | -9.7 | -0.41 | 1.305 | 104.0 | 0.704 | 3.101 | 326.0 | 535.5 | 0.917 | --- | 1.64 | 0.242 | 100.5 | 63.1 | 4.6 | 0.207 |
| 4- 550 | 4-1490 | 0.398 | 200.4 | -9.7 | -0.32 | 1.305 | 104.2 | 0.703 | 3.088 | 325.5 | 536.6 | 0.916 | --- | 1.57 | 0.241 | 97.9 | 61.8 | 4.5 | 0.204 |
| 4- 550 | 4-1510 | 0.401 | 201.1 | -9.6 | -0.23 | 1.304 | 104.4 | 0.703 | 3.077 | 325.0 | 537.7 | 0.913 | --- | 1.50 | 0.239 | 95.4 | 60.4 | 4.4 | 0.202 |
| 4- 550 | 4-1530 | 0.404 | 201.8 | -9.7 | -0.16 | 1.304 | 104.6 | 0.703 | 3.069 | 324.4 | 538.8 | 0.911 | --- | 1.43 | 0.239 | 92.9 | 59.2 | 4.3 | 0.201 |
| 4- 550 | 4-1550 | 0.407 | 202.5 | -9.7 | -0.09 | 1.304 | 104.9 | 0.703 | 3.062 | 323.7 | 539.8 | 0.908 | --- | 1.37 | 0.238 | 90.5 | 58.0 | 4.2 | 0.200 |
| 4- 550 | 4-1570 | 0.411 | 203.2 | -9.8 | -0.02 | 1.303 | 105.1 | 0.704 | 3.058 | 323.1 | 540.8 | 0.905 | 5.210 | 1.32 | 0.239 | 88.2 | 56.9 | 4.2 | 0.200 |
| 4- 550 | 4-1590 | 0.415 | 204.0 | -9.9 | 0.04 | 1.303 | 105.4 | 0.705 | 3.055 | 322.4 | 541.7 | 0.902 | 5.208 | 1.28 | 0.239 | 85.9 | 55.8 | 4.1 | 0.200 |
| 4- 550 | 4-1610 | 0.420 | 204.8 | -10.0 | 0.09 | 1.303 | 105.8 | 0.706 | 3.053 | 321.6 | 542.6 | 0.899 | 5.208 | 1.23 | 0.240 | 83.7 | 54.9 | 4.0 | 0.200 |
| 4- 550 | 4-1630 | 0.424 | 205.6 | -10.1 | 0.15 | 1.303 | 106.1 | 0.707 | 3.053 | 320.8 | 543.5 | 0.895 | 5.211 | 1.19 | 0.241 | 81.6 | 54.0 | 3.9 | 0.201 |
| 4- 550 | 4-1650 | 0.429 | 206.4 | -10.3 | 0.20 | 1.303 | 106.4 | 0.708 | 3.054 | 320.0 | 544.4 | 0.891 | 5.216 | 1.16 | 0.242 | 79.6 | 53.3 | 3.8 | 0.203 |
| 4- 550 | 4-1670 | 0.435 | 207.3 | -10.5 | 0.24 | 1.303 | 106.8 | 0.710 | 3.056 | 319.1 | 545.2 | 0.887 | 5.224 | 1.12 | 0.244 | 77.7 | 52.6 | 3.7 | 0.205 |
| 4- 550 | 4-1690 | 0.441 | 208.1 | -10.7 | 0.29 | 1.304 | 107.2 | 0.711 | 3.059 | 318.3 | 546.0 | 0.883 | 5.235 | 1.09 | 0.245 | 75.8 | 52.1 | 3.7 | 0.207 |
| 4- 550 | 4-1710 | 0.447 | 209.0 | -10.9 | 0.33 | 1.304 | 107.6 | 0.713 | 3.063 | 317.3 | 546.7 | 0.878 | 5.247 | 1.07 | 0.247 | 74.0 | 51.7 | 3.6 | 0.209 |
| 4- 550 | 4-1730 | 0.453 | 209.9 | -11.1 | 0.37 | 1.304 | 108.0 | 0.715 | 3.067 | 316.4 | 547.5 | 0.874 | 5.261 | 1.04 | 0.249 | 72.3 | 51.3 | 3.6 | 0.212 |
| 4- 550 | 4-1750 | 0.460 | 210.8 | -11.3 | 0.41 | 1.304 | 108.4 | 0.717 | 3.072 | 315.4 | 548.2 | 0.868 | 5.276 | 1.02 | 0.252 | 70.6 | 51.1 | 3.5 | 0.215 |
| 4- 550 | 4-1770 | 0.467 | 211.7 | -11.6 | 0.45 | 1.304 | 108.9 | 0.720 | 3.078 | 314.4 | 548.9 | 0.863 | 5.294 | 0.99 | 0.254 | 69.0 | 51.0 | 3.5 | 0.218 |
| 4- 550 | 4-1790 | 0.475 | 212.6 | -11.8 | 0.48 | 1.305 | 109.4 | 0.722 | 3.085 | 313.3 | 549.5 | 0.857 | 5.313 | 0.97 | 0.256 | 67.5 | 51.0 | 3.4 | 0.221 |
| 4- 550 | 4-1810 | 0.483 | 213.5 | -12.1 | 0.52 | 1.305 | 109.8 | 0.725 | 3.092 | 312.2 | 550.1 | 0.851 | 5.333 | 0.95 | 0.259 | 66.0 | 51.0 | 3.4 | 0.225 |
| 4- 550 | 4-1830 | 0.491 | 214.4 | -12.3 | 0.55 | 1.305 | 110.3 | 0.727 | 3.100 | 311.1 | 550.7 | 0.845 | 5.354 | 0.94 | 0.261 | 64.6 | 51.2 | 3.4 | 0.229 |
| 4- 550 | 4-1850 | 0.499 | 215.4 | -12.6 | 0.58 | 1.305 | 110.9 | 0.730 | 3.108 | 310.0 | 551.3 | 0.838 | 5.377 | 0.92 | 0.264 | 63.2 | 51.4 | 3.3 | 0.232 |
| 4- 550 | 4-1870 | 0.508 | 216.3 | -12.8 | 0.61 | 1.306 | 111.4 | 0.733 | 3.116 | 308.8 | 551.9 | 0.831 | 5.401 | 0.91 | 0.267 | 61.9 | 51.8 | 3.3 | 0.236 |
| 4- 550 | 4-1890 | 0.517 | 217.2 | -13.1 | 0.64 | 1.306 | 111.9 | 0.736 | 3.125 | 307.6 | 552.4 | 0.824 | 5.426 | 0.89 | 0.269 | 60.6 | 52.2 | 3.3 | 0.240 |
| 4- 550 | 4-1910 | 0.526 | 218.2 | -13.4 | 0.67 | 1.307 | 112.5 | 0.740 | 3.134 | 306.4 | 552.9 | 0.816 | 5.453 | 0.88 | 0.272 | 59.4 | 52.7 | 3.3 | 0.245 |
| 4- 550 | 4-1930 | 0.536 | 219.1 | -13.6 | 0.70 | 1.307 | 113.1 | 0.743 | 3.144 | 305.1 | 553.4 | 0.808 | 5.480 | 0.87 | 0.275 | 58.2 | 53.2 | 3.3 | 0.249 |
| 4- 550 | 4-1950 | 0.546 | 220.1 | -13.9 | 0.73 | 1.307 | 113.7 | 0.746 | 3.154 | 303.8 | 553.8 | 0.800 | 5.508 | 0.86 | 0.278 | 57.0 | 53.8 | 3.3 | 0.253 |
| 4- 550 | 4-1970 | 0.556 | 221.0 | -14.2 | 0.76 | 1.308 | 114.3 | 0.750 | 3.164 | 302.5 | 554.3 | 0.792 | 5.537 | 0.85 | 0.280 | 55.9 | 54.5 | 3.3 | 0.258 |
| 4- 550 | 4-1990 | 0.567 | 222.0 | -14.4 | 0.78 | 1.308 | 114.9 | 0.754 | 3.175 | 301.2 | 554.7 | 0.783 | 5.568 | 0.84 | 0.283 | 54.8 | 55.3 | 3.3 | 0.262 |
| 4- 550 | 4-2010 | 0.578 | 222.9 | -14.7 | 0.81 | 1.309 | 115.5 | 0.757 | 3.186 | 299.8 | 555.1 | 0.773 | 5.599 | 0.84 | 0.286 | 53.8 | 56.1 | 3.3 | 0.267 |
| 4- 550 | 4-2030 | 0.589 | 223.9 | -15.0 | 0.84 | 1.309 | 116.2 | 0.761 | 3.197 | 298.4 | 555.4 | 0.764 | 5.631 | 0.83 | 0.289 | 52.7 | 56.9 | 3.3 | 0.272 |
| 4- 550 | 4-2050 | 0.601 | 224.8 | -15.2 | 0.86 | 1.309 | 116.8 | 0.765 | 3.208 | 297.0 | 555.8 | 0.753 | 5.663 | 0.82 | 0.291 | 51.7 | 57.9 | 3.3 | 0.277 |
| 4- 550 | 4-2070 | 0.613 | 225.8 | -15.5 | 0.89 | 1.310 | 117.5 | 0.769 | 3.220 | 295.5 | 556.1 | 0.743 | 5.697 | 0.82 | 0.294 | 50.7 | 58.8 | 3.3 | 0.281 |
| 4- 550 | 4-2090 | 0.625 | 226.7 | -15.8 | 0.92 | 1.310 | 118.2 | 0.773 | 3.232 | 294.1 | 556.4 | 0.732 | 5.731 | 0.82 | 0.297 | 49.8 | 59.9 | 3.3 | 0.286 |
| 4- 550 | 4-2110 | 0.638 | 227.7 | -16.0 | 0.94 | 1.311 | 118.9 | 0.778 | 3.244 | 292.6 | 556.7 | 0.721 | 5.767 | 0.81 | 0.299 | 48.8 | 60.9 | 3.3 | 0.291 |
| 4- 550 | 4-2130 | 0.651 | 228.6 | -16.3 | 0.97 | 1.311 | 119.7 | 0.782 | 3.256 | 291.0 | 556.9 | 0.710 | 5.803 | 0.81 | 0.302 | 47.9 | 62.0 | 3.3 | 0.296 |
| 4- 550 | 4-2150 | 0.664 | 229.6 | -16.5 | 0.99 | 1.312 | 120.4 | 0.787 | 3.268 | 289.5 | 557.2 | 0.698 | 5.839 | 0.81 | 0.305 | 47.0 | 63.2 | 3.3 | 0.302 |
| 4- 560 | 4- 920 | 0.650 | 211.9 | -7.0 | 2.53 | 1.516 | 109.5 | 1.238 | -3.717 | 324.9 | 480.8 | 0.886 | --- | -1.51 | 0.799 | 161.0 | 79.5 | 2.5 | 0.784 |
| 4- 560 | 4- 940 | 0.609 | 211.1 | -6.1 | 2.63 | 1.487 | 108.3 | 1.163 | -5.477 | 326.0 | 483.5 | 0.895 | --- | -1.61 | 0.743 | 159.7 | 79.9 | 2.5 | 0.729 |
| 4- 560 | 4- 960 | 0.574 | 210.2 | -5.2 | 2.75 | 1.463 | 107.2 | 1.100 | -9.076 | 327.2 | 486.2 | 0.903 | --- | -1.72 | 0.693 | 158.4 | 80.2 | 2.4 | 0.678 |
| 4- 560 | 4- 980 | 0.544 | 209.4 | -4.1 | 2.89 | 1.442 | 106.2 | 1.045 | 20.341 | 328.3 | 488.8 | 0.910 | --- | -1.85 | 0.648 | 157.0 | 80.5 | 2.3 | 0.633 |
| 4- 560 | 4-1000 | 0.517 | 208.6 | -3.1 | 3.05 | 1.424 | 105.3 | 0.998 | 03.703 | 329.4 | 491.4 | 0.917 | --- | -2.00 | 0.607 | 155.6 | 80.7 | 2.2 | 0.592 |
| 4- 560 | 4-1020 | 0.494 | 207.9 | -1.9 | 3.25 | 1.408 | 104.5 | 0.957 | 21.485 | 330.4 | 494.0 | 0.923 | --- | -2.18 | 0.570 | 154.0 | 80.8 | 2.0 | 0.555 |
| 4- 560 | 4-1040 | 0.474 | 207.3 | -0.6 | 3.48 | 1.395 | 103.7 | 0.922 | 11.867 | 331.3 | 496.5 | 0.928 | --- | -2.41 | 0.536 | 152.4 | 80.9 | 1.9 | 0.520 |
| 4- 560 | 4-1060 | 0.457 | 206.8 | 0.9 | 3.76 | 1.383 | 103.1 | 0.891 | 8.569 | 332.2 | 498.9 | 0.932 | --- | -2.68 | 0.505 | 150.7 | 81.0 | 1.7 | 0.489 |
| 4- 560 | 4-1080 | 0.443 | 206.5 | 2.5 | 4.12 | 1.373 | 102.5 | 0.865 | 6.912 | 333.1 | 501.3 | 0.936 | --- | -3.03 | 0.477 | 149.0 | 80.9 | 1.4 | 0.461 |
| 4- 560 | 4-1100 | 0.431 | 206.4 | 4.4 | 4.59 | 1.364 | 101.9 | 0.841 | 5.921 | 333.8 | 503.6 | 0.939 | --- | -3.49 | 0.452 | 147.1 | 80.8 | 1.1 | 0.434 |
| 4- 560 | 4-1120 | 0.422 | 206.6 | 6.9 | 5.22 | 1.356 | 101.5 | 0.821 | 5.265 | 334.5 | 505.9 | 0.942 | --- | -4.12 | 0.428 | 145.2 | 80.7 | 0.6 | 0.410 |
| 4- 560 | 4-1140 | 0.417 | 207.3 | 10.0 | 6.14 | 1.350 | 101.1 | 0.803 | 4.803 | 335.1 | 508.1 | 0.945 | --- | -5.02 | 0.407 | 143.2 | 80.4 | -0.1 | 0.388 |
| 4- 560 | 4-1160 | 0.418 | 208.9 | 14.5 | 7.57 | 1.344 | 100.7 | 0.788 | 4.461 | 335.7 | 510.2 | 0.947 | --- | -6.45 | 0.387 | 141.1 | 80.0 | -1.2 | 0.369 |
| 4- 560 | 4-1180 | 0.433 | 212.3 | 21.6 | 10.15 | 1.338 | 100.4 | 0.774 | 4.201 | 336.2 | 512.2 | 0.949 | --- | -9.02 | 0.369 | 138.9 | 79.4 | -3.2 | 0.352 |
| 4- 560 | 4-1200 | 0.494 | 221.6 | 34.3 | 16.07 | 1.334 | 100.1 | 0.762 | 3.996 | 336.6 | 514.2 | 0.950 | --- | -14.94 | 0.353 | 136.6 | 78.2 | -7.6 | 0.341 |
| 4- 560 | 4-1220 | 0.892 | 265.8 | 52.4 | 41.28 | 1.330 | 99.8 | 0.752 | 3.833 | 337.0 | 516.1 | 0.952 | --- | -40.13 | 0.338 | 134.2 | 71.5 | -21.1 | 0.384 |
| 4- 560 | 4-1240 | 0.778 | 135.4 | -77.0 | -34.71 | 1.326 | 99.8 | 0.743 | 3.701 | 336.9 | 517.9 | 0.952 | --- | 35.86 | 0.325 | 131.9 | 71.3 | 26.1 | 0.359 |
| 4- 560 | 4-1260 | 0.445 | 179.2 | -45.8 | -13.02 | 1.323 | 99.6 | 0.735 | 3.593 | 337.2 | 519.7 | 0.953 | --- | 14.18 | 0.313 | 129.4 | 75.9 | 14.5 | 0.297 |
| 4- 560 | 4-1280 | 0.387 | 186.4 | -31.4 | -7.53 | 1.321 | 99.5 | 0.728 | 3.503 | 337.3 | 521.4 | 0.953 | --- | 8.70 | 0.302 | 126.8 | 75.8 | 10.5 | 0.278 |
| 4- 560 | 4-1300 | 0.368 | 189.5 | -24.0 | -5.08 | 1.318 | 99.5 | 0.722 | 3.428 | 337.4 | 523.0 | 0.954 | --- | 6.26 | 0.292 | 124.2 | 75.1 | 8.7 | 0.265 |
| 4- 560 | 4-1320 | 0.359 | 191.4 | -19.6 | -3.70 | 1.316 | 99.4 | 0.717 | 3.365 | 337.4 | 524.6 | 0.954 | --- | 4.89 | 0.284 | 121.6 | 74.2 | 7.6 | 0.254 |
| 4- 560 | 4-1340 | 0.354 | 192.7 | -16.7 | -2.81 | 1.314 | 99.4 | 0.712 | 3.313 | 337.3 | 526.1 | 0.954 | --- | 4.01 | 0.276 | 118.9 | 73.1 | 6.9 | 0.244 |
| 4- 560 | 4-1360 | 0.351 | 193.8 | -14.7 | -2.19 | 1.313 | 99.4 | 0.708 | 3.268 | 337.2 | 527.6 | 0.954 | --- | 3.40 | 0.269 | 116.2 | 72.0 | 6.4 | 0.236 |
| 4- 560 | 4-1380 | 0.350 | 194.7 | -13.2 | -1.73 | 1.311 | 99.5 | 0.705 | 3.230 | 337.0 | 529.0 | 0.953 | --- | 2.95 | 0.263 | 113.5 | 70.8 | 6.0 | 0.228 |
| 4- 560 | 4-1400 | 0.349 | 195.5 | -12.2 | -1.38 | 1.310 | 99.6 | 0.702 | 3.198 | 336.7 | 530.4 | 0.952 | --- | 2.61 | 0.259 | 110.8 | 69.5 | 5.7 | 0.222 |
| 4- 560 | 4-1420 | 0.349 | 196.3 | -11.4 | -1.10 | 1.309 | 99.7 | 0.700 | 3.171 | 336.4 | 531.7 | 0.952 | --- | 2.34 | 0.254 | 108.1 | 68.2 | 5.5 | 0.216 |
| 4- 560 | 4-1440 | 0.349 | 197.1 | -10.8 | -0.88 | 1.308 | 99.8 | 0.698 | 3.149 | 336.1 | 533.0 | 0.951 | --- | 2.12 | 0.251 | 105.5 | 66.8 | 5.2 | 0.211 |
| 4- 560 | 4-1460 | 0.350 | 197.9 | -10.3 | -0.69 | 1.308 | 100.0 | 0.697 | 3.130 | 335.7 | 534.2 | 0.950 | --- | 1.94 | 0.248 | 102.9 | 65.5 | 5.1 | 0.207 |
| 4- 560 | 4-1480 | 0.351 | 198.7 | -10.0 | -0.53 | 1.307 | 100.1 | 0.695 | 3.114 | 335.2 | 535.4 | 0.948 | --- | 1.79 | 0.246 | 100.3 | 64.1 | 4.9 | 0.204 |
| 4- 560 | 4-1500 | 0.353 | 199.5 | -9.8 | -0.39 | 1.307 | 100.3 | 0.695 | 3.102 | 334.7 | 536.5 | 0.947 | --- | 1.66 | 0.244 | 97.8 | 62.8 | 4.7 | 0.201 |
| 4- 560 | 4-1520 | 0.355 | 200.3 | -9.6 | -0.27 | 1.306 | 100.5 | 0.694 | 3.091 | 334.2 | 537.7 | 0.945 | --- | 1.55 | 0.243 | 95.3 | 61.5 | 4.6 | 0.199 |
| 4- 560 | 4-1540 | 0.357 | 201.2 | -9.6 | -0.16 | 1.306 | 100.8 | 0.694 | 3.083 | 333.6 | 538.7 | 0.943 | --- | 1.45 | 0.242 | 92.9 | 60.3 | 4.4 | 0.197 |
| 4- 560 | 4-1560 | 0.360 | 202.1 | -9.5 | -0.07 | 1.306 | 101.0 | 0.694 | 3.077 | 333.0 | 539.7 | 0.941 | --- | 1.37 | 0.242 | 90.6 | 59.1 | 4.3 | 0.196 |
| 4- 560 | 4-1580 | 0.363 | 203.0 | -9.6 | 0.01 | 1.305 | 101.3 | 0.694 | 3.073 | 332.3 | 540.7 | 0.939 | 5.207 | 1.30 | 0.242 | 88.3 | 58.0 | 4.2 | 0.196 |
| 4- 560 | 4-1600 | 0.366 | 204.0 | -9.7 | 0.09 | 1.305 | 101.6 | 0.695 | 3.070 | 331.6 | 541.7 | 0.937 | 5.203 | 1.23 | 0.243 | 86.2 | 56.9 | 4.1 | 0.196 |
| 4- 560 | 4-1620 | 0.370 | 204.9 | -9.8 | 0.15 | 1.305 | 101.9 | 0.696 | 3.069 | 330.9 | 542.6 | 0.934 | 5.203 | 1.17 | 0.244 | 84.1 | 56.0 | 4.0 | 0.197 |
| 4- 560 | 4-1640 | 0.374 | 205.9 | -9.9 | 0.22 | 1.305 | 102.2 | 0.696 | 3.069 | 330.1 | 543.5 | 0.932 | 5.206 | 1.12 | 0.245 | 82.0 | 55.1 | 3.9 | 0.197 |
| 4- 560 | 4-1660 | 0.378 | 206.9 | -10.1 | 0.27 | 1.305 | 102.6 | 0.697 | 3.070 | 329.3 | 544.4 | 0.929 | 5.211 | 1.07 | 0.246 | 80.1 | 54.4 | 3.8 | 0.199 |
| 4- 560 | 4-1680 | 0.383 | 207.9 | -10.3 | 0.33 | 1.305 | 102.9 | 0.699 | 3.072 | 328.4 | 545.2 | 0.926 | 5.218 | 1.03 | 0.248 | 78.2 | 53.7 | 3.7 | 0.200 |
| 4- 560 | 4-1700 | 0.388 | 208.9 | -10.5 | 0.37 | 1.305 | 103.3 | 0.700 | 3.075 | 327.6 | 546.0 | 0.922 | 5.228 | 0.99 | 0.250 | 76.4 | 53.2 | 3.6 | 0.202 |
| 4- 560 | 4-1720 | 0.393 | 209.9 | -10.8 | 0.42 | 1.306 | 103.7 | 0.702 | 3.079 | 326.7 | 546.8 | 0.919 | 5.239 | 0.96 | 0.251 | 74.7 | 52.8 | 3.6 | 0.205 |
| 4- 560 | 4-1740 | 0.399 | 211.0 | -11.0 | 0.46 | 1.306 | 104.1 | 0.703 | 3.084 | 325.7 | 547.5 | 0.915 | 5.252 | 0.92 | 0.254 | 73.1 | 52.4 | 3.5 | 0.207 |
| 4- 560 | 4-1760 | 0.405 | 212.0 | -11.3 | 0.50 | 1.306 | 104.5 | 0.705 | 3.089 | 324.7 | 548.3 | 0.911 | 5.267 | 0.90 | 0.256 | 71.5 | 52.2 | 3.5 | 0.210 |
| 4- 560 | 4-1780 | 0.411 | 213.1 | -11.6 | 0.54 | 1.306 | 104.9 | 0.707 | 3.095 | 323.7 | 548.9 | 0.906 | 5.284 | 0.87 | 0.258 | 70.0 | 52.1 | 3.4 | 0.213 |
| 4- 560 | 4-1800 | 0.418 | 214.2 | -11.9 | 0.57 | 1.307 | 105.4 | 0.709 | 3.102 | 322.7 | 549.6 | 0.902 | 5.302 | 0.84 | 0.260 | 68.5 | 52.0 | 3.4 | 0.216 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 560 | 4-1820 | 0.424 | 215.3 | -12.2 | 0.61 | 1.307 | 105.8 | 0.711 | 3.109 | 321.6 | 550.3 | 0.897 | 5.321 | 0.82 | 0.263 | 67.1 | 52.1 | 3.3 | 0.219 |
| 4- 560 | 4-1840 | 0.432 | 216.3 | -12.4 | 0.64 | 1.307 | 106.3 | 0.714 | 3.117 | 320.5 | 550.9 | 0.892 | 5.341 | 0.80 | 0.265 | 65.7 | 52.2 | 3.3 | 0.222 |
| 4- 560 | 4-1860 | 0.439 | 217.4 | -12.8 | 0.67 | 1.307 | 106.8 | 0.716 | 3.125 | 319.4 | 551.5 | 0.887 | 5.363 | 0.78 | 0.268 | 64.4 | 52.4 | 3.3 | 0.226 |
| 4- 560 | 4-1880 | 0.447 | 218.5 | -13.1 | 0.70 | 1.308 | 107.3 | 0.719 | 3.133 | 318.3 | 552.1 | 0.881 | 5.386 | 0.76 | 0.270 | 63.2 | 52.7 | 3.2 | 0.230 |
| 4- 560 | 4-1900 | 0.455 | 219.6 | -13.4 | 0.73 | 1.308 | 107.8 | 0.722 | 3.142 | 317.1 | 552.6 | 0.875 | 5.410 | 0.75 | 0.273 | 62.0 | 53.1 | 3.2 | 0.233 |
| 4- 560 | 4-1920 | 0.463 | 220.7 | -13.7 | 0.75 | 1.309 | 108.4 | 0.724 | 3.152 | 315.9 | 553.1 | 0.869 | 5.435 | 0.73 | 0.276 | 60.8 | 53.6 | 3.2 | 0.237 |
| 4- 560 | 4-1940 | 0.472 | 221.8 | -14.0 | 0.78 | 1.309 | 108.9 | 0.727 | 3.162 | 314.6 | 553.7 | 0.862 | 5.461 | 0.72 | 0.278 | 59.6 | 54.1 | 3.2 | 0.241 |
| 4- 560 | 4-1960 | 0.481 | 222.9 | -14.3 | 0.81 | 1.309 | 109.5 | 0.730 | 3.172 | 313.4 | 554.1 | 0.855 | 5.488 | 0.71 | 0.281 | 58.6 | 54.7 | 3.2 | 0.245 |
| 4- 560 | 4-1980 | 0.491 | 223.9 | -14.6 | 0.83 | 1.310 | 110.0 | 0.733 | 3.182 | 312.1 | 554.6 | 0.848 | 5.516 | 0.69 | 0.284 | 57.5 | 55.4 | 3.2 | 0.250 |
| 4- 560 | 4-2000 | 0.500 | 225.0 | -14.9 | 0.85 | 1.310 | 110.6 | 0.737 | 3.193 | 310.8 | 555.1 | 0.841 | 5.545 | 0.68 | 0.287 | 56.5 | 56.1 | 3.2 | 0.254 |
| 4- 560 | 4-2020 | 0.510 | 226.1 | -15.2 | 0.88 | 1.310 | 111.2 | 0.740 | 3.204 | 309.5 | 555.5 | 0.833 | 5.574 | 0.67 | 0.289 | 55.5 | 56.9 | 3.2 | 0.258 |
| 4- 560 | 4-2040 | 0.521 | 227.2 | -15.5 | 0.90 | 1.311 | 111.9 | 0.744 | 3.215 | 308.1 | 555.9 | 0.825 | 5.605 | 0.67 | 0.292 | 54.5 | 57.7 | 3.2 | 0.263 |
| 4- 560 | 4-2060 | 0.531 | 228.3 | -15.8 | 0.92 | 1.311 | 112.5 | 0.747 | 3.226 | 306.7 | 556.3 | 0.816 | 5.636 | 0.66 | 0.295 | 53.5 | 58.6 | 3.2 | 0.267 |
| 4- 560 | 4-2080 | 0.542 | 229.3 | -16.0 | 0.94 | 1.312 | 113.1 | 0.751 | 3.238 | 305.3 | 556.6 | 0.807 | 5.668 | 0.65 | 0.297 | 52.6 | 59.6 | 3.2 | 0.272 |
| 4- 560 | 4-2100 | 0.554 | 230.4 | -16.3 | 0.96 | 1.312 | 113.8 | 0.754 | 3.249 | 303.9 | 556.9 | 0.798 | 5.701 | 0.64 | 0.300 | 51.7 | 60.6 | 3.2 | 0.276 |
| 4- 560 | 4-2120 | 0.565 | 231.5 | -16.6 | 0.98 | 1.313 | 114.5 | 0.758 | 3.261 | 302.4 | 557.3 | 0.788 | 5.735 | 0.64 | 0.302 | 50.8 | 61.6 | 3.2 | 0.281 |
| 4- 560 | 4-2140 | 0.577 | 232.5 | -16.9 | 1.00 | 1.313 | 115.2 | 0.762 | 3.274 | 300.9 | 557.6 | 0.778 | 5.769 | 0.63 | 0.305 | 49.9 | 62.7 | 3.2 | 0.286 |
| 4- 560 | 4-2160 | 0.589 | 233.6 | -17.1 | 1.02 | 1.313 | 115.9 | 0.766 | 3.286 | 299.4 | 557.8 | 0.768 | 5.804 | 0.63 | 0.308 | 49.1 | 63.8 | 3.3 | 0.290 |
| 4- 570 | 4- 910 | 0.631 | 213.0 | -8.7 | 1.82 | 1.545 | 105.9 | 1.327 | -2.810 | 332.1 | 477.1 | 0.919 | --- | -0.70 | 0.852 | 161.5 | 80.2 | 2.8 | 0.833 |
| 4- 570 | 4- 930 | 0.587 | 211.8 | -8.0 | 1.85 | 1.512 | 104.7 | 1.236 | -3.931 | 333.4 | 479.9 | 0.927 | --- | -0.73 | 0.790 | 160.3 | 80.6 | 2.8 | 0.772 |
| 4- 570 | 4- 950 | 0.549 | 210.5 | -7.1 | 1.89 | 1.484 | 103.6 | 1.159 | -5.879 | 334.7 | 482.7 | 0.934 | --- | -0.76 | 0.735 | 159.0 | 80.9 | 2.7 | 0.717 |
| 4- 570 | 4- 970 | 0.516 | 209.3 | -6.3 | 1.93 | 1.460 | 102.6 | 1.094 | 10.049 | 335.9 | 485.5 | 0.940 | --- | -0.80 | 0.686 | 157.7 | 81.2 | 2.7 | 0.668 |
| 4- 570 | 4- 990 | 0.488 | 208.0 | -5.4 | 1.97 | 1.439 | 101.6 | 1.038 | 24.979 | 337.1 | 488.3 | 0.945 | --- | -0.84 | 0.641 | 156.3 | 81.4 | 2.7 | 0.623 |
| 4- 570 | 4-1010 | 0.463 | 206.8 | -4.5 | 2.02 | 1.422 | 100.8 | 0.990 | 96.759 | 338.3 | 491.0 | 0.950 | --- | -0.88 | 0.601 | 154.9 | 81.6 | 2.6 | 0.583 |
| 4- 570 | 4-1030 | 0.442 | 205.6 | -3.6 | 2.08 | 1.407 | 100.0 | 0.949 | 18.764 | 339.4 | 493.6 | 0.954 | --- | -0.93 | 0.564 | 153.3 | 81.7 | 2.6 | 0.546 |
| 4- 570 | 4-1050 | 0.424 | 204.5 | -2.7 | 2.14 | 1.394 | 99.4 | 0.914 | 11.102 | 340.4 | 496.2 | 0.957 | --- | -0.98 | 0.531 | 151.7 | 81.8 | 2.6 | 0.512 |
| 4- 570 | 4-1070 | 0.408 | 203.4 | -1.8 | 2.21 | 1.382 | 98.7 | 0.883 | 8.217 | 341.4 | 498.7 | 0.960 | --- | -1.05 | 0.501 | 150.0 | 81.8 | 2.5 | 0.481 |
| 4- 570 | 4-1090 | 0.394 | 202.5 | -0.9 | 2.29 | 1.372 | 98.2 | 0.857 | 6.713 | 342.2 | 501.1 | 0.963 | --- | -1.12 | 0.473 | 148.2 | 81.8 | 2.4 | 0.453 |
| 4- 570 | 4-1110 | 0.382 | 201.6 | 0.0 | 2.38 | 1.364 | 97.7 | 0.833 | 5.795 | 343.0 | 503.5 | 0.965 | --- | -1.21 | 0.448 | 146.4 | 81.6 | 2.3 | 0.427 |
| 4- 570 | 4-1130 | 0.372 | 200.8 | 1.0 | 2.49 | 1.356 | 97.3 | 0.813 | 5.180 | 343.8 | 505.8 | 0.967 | --- | -1.31 | 0.425 | 144.4 | 81.4 | 2.2 | 0.403 |
| 4- 570 | 4-1150 | 0.364 | 200.2 | 1.9 | 2.61 | 1.350 | 96.9 | 0.796 | 4.743 | 344.4 | 508.0 | 0.968 | --- | -1.43 | 0.404 | 142.4 | 81.2 | 2.1 | 0.381 |
| 4- 570 | 4-1170 | 0.356 | 199.7 | 2.9 | 2.77 | 1.344 | 96.6 | 0.781 | 4.417 | 345.0 | 510.2 | 0.970 | --- | -1.58 | 0.385 | 140.3 | 80.8 | 2.0 | 0.361 |
| 4- 570 | 4-1190 | 0.350 | 199.3 | 4.0 | 2.95 | 1.339 | 96.3 | 0.767 | 4.168 | 345.5 | 512.2 | 0.971 | --- | -1.76 | 0.367 | 138.1 | 80.4 | 1.8 | 0.343 |
| 4- 570 | 4-1210 | 0.345 | 199.2 | 5.2 | 3.19 | 1.334 | 96.1 | 0.755 | 3.972 | 345.9 | 514.2 | 0.972 | --- | -1.99 | 0.351 | 135.8 | 79.9 | 1.5 | 0.326 |
| 4- 570 | 4-1230 | 0.341 | 199.3 | 6.7 | 3.51 | 1.330 | 95.9 | 0.745 | 3.816 | 346.2 | 516.1 | 0.972 | --- | -2.30 | 0.337 | 133.4 | 79.2 | 1.2 | 0.310 |
| 4- 570 | 4-1250 | 0.339 | 199.6 | 8.5 | 3.94 | 1.327 | 95.7 | 0.736 | 3.688 | 346.5 | 518.0 | 0.973 | --- | -2.73 | 0.324 | 131.0 | 78.5 | 0.8 | 0.296 |
| 4- 570 | 4-1270 | 0.339 | 200.4 | 10.9 | 4.56 | 1.324 | 95.6 | 0.728 | 3.584 | 346.7 | 519.8 | 0.973 | --- | -3.35 | 0.312 | 128.5 | 77.8 | 0.1 | 0.283 |
| 4- 570 | 4-1290 | 0.342 | 201.9 | 14.4 | 5.56 | 1.321 | 95.5 | 0.722 | 3.497 | 346.8 | 521.5 | 0.973 | --- | -4.34 | 0.301 | 126.0 | 76.9 | -0.9 | 0.271 |
| 4- 570 | 4-1310 | 0.354 | 205.0 | 20.5 | 7.41 | 1.319 | 95.5 | 0.716 | 3.425 | 346.9 | 523.1 | 0.974 | --- | -6.18 | 0.292 | 123.4 | 75.8 | -2.8 | 0.261 |
| 4- 570 | 4-1330 | 0.399 | 213.0 | 32.9 | 11.96 | 1.317 | 95.4 | 0.711 | 3.364 | 346.9 | 524.7 | 0.974 | --- | -10.73 | 0.284 | 120.8 | 74.4 | -7.2 | 0.256 |
| 4- 570 | 4-1350 | 0.828 | 267.1 | 58.4 | 38.73 | 1.315 | 95.4 | 0.706 | 3.313 | 346.9 | 526.2 | 0.974 | --- | -37.49 | 0.276 | 118.1 | 68.0 | -25.0 | 0.318 |
| 4- 570 | 4-1370 | 0.498 | 159.2 | -59.8 | -19.20 | 1.314 | 95.5 | 0.702 | 3.270 | 346.6 | 527.7 | 0.973 | --- | 20.44 | 0.270 | 115.5 | 70.2 | 22.1 | 0.259 |
| 4- 570 | 4-1390 | 0.347 | 181.9 | -32.1 | -7.27 | 1.313 | 95.6 | 0.699 | 3.233 | 346.4 | 529.1 | 0.973 | --- | 8.52 | 0.265 | 112.8 | 70.9 | 11.9 | 0.230 |
| 4- 570 | 4-1410 | 0.325 | 187.4 | -21.4 | -4.09 | 1.311 | 95.7 | 0.696 | 3.203 | 346.2 | 530.5 | 0.973 | --- | 5.35 | 0.260 | 110.2 | 69.9 | 8.8 | 0.220 |
| 4- 570 | 4-1430 | 0.319 | 190.3 | -16.2 | -2.63 | 1.310 | 95.8 | 0.694 | 3.177 | 345.9 | 531.8 | 0.972 | --- | 3.90 | 0.256 | 107.5 | 68.7 | 7.3 | 0.214 |
| 4- 570 | 4-1450 | 0.317 | 192.2 | -13.3 | -1.80 | 1.310 | 95.9 | 0.692 | 3.155 | 345.5 | 533.1 | 0.972 | --- | 3.06 | 0.253 | 104.9 | 67.4 | 6.4 | 0.209 |
| 4- 570 | 4-1470 | 0.316 | 193.7 | -11.4 | -1.25 | 1.309 | 96.1 | 0.691 | 3.137 | 345.1 | 534.3 | 0.971 | --- | 2.53 | 0.250 | 102.4 | 66.1 | 5.8 | 0.205 |
| 4- 570 | 4-1490 | 0.316 | 194.9 | -10.3 | -0.87 | 1.308 | 96.3 | 0.689 | 3.122 | 344.7 | 535.5 | 0.970 | --- | 2.15 | 0.248 | 99.8 | 64.7 | 5.4 | 0.201 |
| 4- 570 | 4-1510 | 0.317 | 196.1 | -9.5 | -0.58 | 1.308 | 96.5 | 0.688 | 3.110 | 344.2 | 536.6 | 0.969 | --- | 1.87 | 0.247 | 97.4 | 63.4 | 5.0 | 0.198 |
| 4- 570 | 4-1530 | 0.318 | 197.3 | -9.0 | -0.36 | 1.307 | 96.7 | 0.688 | 3.100 | 343.6 | 537.7 | 0.968 | --- | 1.66 | 0.246 | 95.0 | 62.2 | 4.8 | 0.196 |
| 4- 570 | 4-1550 | 0.320 | 198.4 | -8.6 | -0.19 | 1.307 | 96.9 | 0.687 | 3.093 | 343.0 | 538.8 | 0.967 | --- | 1.49 | 0.245 | 92.7 | 60.9 | 4.5 | 0.195 |
| 4- 570 | 4-1570 | 0.322 | 199.6 | -8.5 | -0.05 | 1.307 | 97.2 | 0.687 | 3.087 | 342.4 | 539.8 | 0.966 | --- | 1.35 | 0.245 | 90.4 | 59.8 | 4.4 | 0.194 |
| 4- 570 | 4-1590 | 0.324 | 200.7 | -8.4 | 0.07 | 1.307 | 97.4 | 0.687 | 3.084 | 341.7 | 540.8 | 0.964 | 5.203 | 1.24 | 0.245 | 88.2 | 58.7 | 4.2 | 0.193 |
| 4- 570 | 4-1610 | 0.327 | 201.9 | -8.4 | 0.18 | 1.307 | 97.7 | 0.688 | 3.081 | 341.0 | 541.8 | 0.963 | 5.200 | 1.14 | 0.246 | 86.1 | 57.7 | 4.0 | 0.193 |
| 4- 570 | 4-1630 | 0.329 | 203.0 | -8.5 | 0.26 | 1.307 | 98.0 | 0.688 | 3.080 | 340.3 | 542.7 | 0.961 | 5.200 | 1.06 | 0.247 | 84.1 | 56.8 | 3.9 | 0.194 |
| 4- 570 | 4-1650 | 0.332 | 204.2 | -8.7 | 0.34 | 1.307 | 98.3 | 0.689 | 3.081 | 339.5 | 543.6 | 0.959 | 5.202 | 0.99 | 0.248 | 82.1 | 55.9 | 3.8 | 0.195 |
| 4- 570 | 4-1670 | 0.336 | 205.4 | -8.9 | 0.40 | 1.307 | 98.7 | 0.690 | 3.082 | 338.7 | 544.5 | 0.957 | 5.207 | 0.93 | 0.249 | 80.3 | 55.2 | 3.7 | 0.196 |
| 4- 570 | 4-1690 | 0.340 | 206.6 | -9.1 | 0.46 | 1.307 | 99.0 | 0.691 | 3.085 | 337.9 | 545.3 | 0.955 | 5.214 | 0.88 | 0.251 | 78.5 | 54.6 | 3.6 | 0.197 |
| 4- 570 | 4-1710 | 0.343 | 207.8 | -9.4 | 0.52 | 1.307 | 99.4 | 0.692 | 3.088 | 337.0 | 546.1 | 0.952 | 5.224 | 0.83 | 0.253 | 76.8 | 54.0 | 3.5 | 0.199 |
| 4- 570 | 4-1730 | 0.348 | 209.1 | -9.7 | 0.56 | 1.307 | 99.8 | 0.693 | 3.092 | 336.1 | 546.9 | 0.950 | 5.235 | 0.79 | 0.255 | 75.1 | 53.6 | 3.4 | 0.201 |
| 4- 570 | 4-1750 | 0.352 | 210.3 | -10.0 | 0.61 | 1.307 | 100.2 | 0.694 | 3.097 | 335.1 | 547.6 | 0.947 | 5.247 | 0.75 | 0.257 | 73.5 | 53.3 | 3.4 | 0.203 |
| 4- 570 | 4-1770 | 0.357 | 211.6 | -10.3 | 0.65 | 1.308 | 100.6 | 0.696 | 3.103 | 334.2 | 548.4 | 0.944 | 5.262 | 0.72 | 0.259 | 72.0 | 53.1 | 3.3 | 0.206 |
| 4- 570 | 4-1790 | 0.362 | 212.9 | -10.7 | 0.68 | 1.308 | 101.0 | 0.697 | 3.109 | 333.2 | 549.1 | 0.941 | 5.277 | 0.69 | 0.261 | 70.5 | 52.9 | 3.3 | 0.209 |
| 4- 570 | 4-1810 | 0.368 | 214.1 | -11.0 | 0.72 | 1.308 | 101.4 | 0.699 | 3.116 | 332.1 | 549.8 | 0.937 | 5.295 | 0.66 | 0.264 | 69.1 | 52.9 | 3.2 | 0.212 |
| 4- 570 | 4-1830 | 0.374 | 215.4 | -11.4 | 0.75 | 1.308 | 101.9 | 0.701 | 3.123 | 331.1 | 550.4 | 0.934 | 5.313 | 0.64 | 0.266 | 67.8 | 52.9 | 3.2 | 0.215 |
| 4- 570 | 4-1850 | 0.380 | 216.7 | -11.8 | 0.78 | 1.309 | 102.3 | 0.703 | 3.131 | 330.0 | 551.1 | 0.930 | 5.333 | 0.61 | 0.269 | 66.5 | 53.1 | 3.1 | 0.218 |
| 4- 570 | 4-1870 | 0.386 | 218.0 | -12.1 | 0.81 | 1.309 | 102.8 | 0.705 | 3.140 | 328.9 | 551.7 | 0.926 | 5.354 | 0.59 | 0.271 | 65.3 | 53.3 | 3.1 | 0.221 |
| 4- 570 | 4-1890 | 0.393 | 219.3 | -12.5 | 0.83 | 1.309 | 103.3 | 0.707 | 3.148 | 327.8 | 552.3 | 0.921 | 5.376 | 0.58 | 0.274 | 64.1 | 53.6 | 3.1 | 0.225 |
| 4- 570 | 4-1910 | 0.400 | 220.6 | -12.9 | 0.85 | 1.310 | 103.8 | 0.710 | 3.158 | 326.6 | 552.8 | 0.917 | 5.399 | 0.56 | 0.276 | 62.9 | 54.0 | 3.1 | 0.228 |
| 4- 570 | 4-1930 | 0.407 | 221.9 | -13.3 | 0.88 | 1.310 | 104.3 | 0.712 | 3.167 | 325.4 | 553.4 | 0.912 | 5.423 | 0.54 | 0.279 | 61.8 | 54.4 | 3.1 | 0.232 |
| 4- 570 | 4-1950 | 0.415 | 223.1 | -13.6 | 0.90 | 1.310 | 104.8 | 0.715 | 3.177 | 324.2 | 553.9 | 0.907 | 5.448 | 0.53 | 0.282 | 60.7 | 55.0 | 3.1 | 0.236 |
| 4- 570 | 4-1970 | 0.423 | 224.4 | -14.0 | 0.92 | 1.311 | 105.4 | 0.717 | 3.187 | 322.9 | 554.4 | 0.901 | 5.473 | 0.52 | 0.284 | 59.7 | 55.6 | 3.1 | 0.239 |
| 4- 570 | 4-1990 | 0.431 | 225.7 | -14.4 | 0.94 | 1.311 | 105.9 | 0.720 | 3.198 | 321.7 | 554.9 | 0.896 | 5.500 | 0.50 | 0.287 | 58.7 | 56.2 | 3.1 | 0.243 |
| 4- 570 | 4-2010 | 0.439 | 227.0 | -14.7 | 0.96 | 1.312 | 106.5 | 0.723 | 3.209 | 320.4 | 555.4 | 0.890 | 5.528 | 0.49 | 0.290 | 57.7 | 56.9 | 3.1 | 0.247 |
| 4- 570 | 4-2030 | 0.448 | 228.2 | -15.1 | 0.98 | 1.312 | 107.1 | 0.726 | 3.220 | 319.1 | 555.8 | 0.883 | 5.556 | 0.48 | 0.292 | 56.8 | 57.7 | 3.1 | 0.251 |
| 4- 570 | 4-2050 | 0.458 | 229.5 | -15.4 | 0.99 | 1.312 | 107.7 | 0.729 | 3.231 | 317.7 | 556.3 | 0.877 | 5.585 | 0.47 | 0.295 | 55.8 | 58.5 | 3.1 | 0.255 |
| 4- 570 | 4-2070 | 0.467 | 230.7 | -15.8 | 1.01 | 1.313 | 108.3 | 0.732 | 3.242 | 316.4 | 556.7 | 0.870 | 5.615 | 0.46 | 0.298 | 54.9 | 59.4 | 3.1 | 0.260 |
| 4- 570 | 4-2090 | 0.477 | 232.0 | -16.1 | 1.03 | 1.313 | 108.9 | 0.735 | 3.254 | 315.0 | 557.0 | 0.862 | 5.646 | 0.46 | 0.300 | 54.1 | 60.3 | 3.1 | 0.264 |
| 4- 570 | 4-2110 | 0.487 | 233.2 | -16.4 | 1.04 | 1.314 | 109.5 | 0.738 | 3.266 | 313.6 | 557.4 | 0.855 | 5.677 | 0.45 | 0.303 | 53.2 | 61.3 | 3.1 | 0.268 |
| 4- 570 | 4-2130 | 0.498 | 234.4 | -16.7 | 1.06 | 1.314 | 110.2 | 0.742 | 3.278 | 312.2 | 557.8 | 0.847 | 5.709 | 0.44 | 0.305 | 52.4 | 62.3 | 3.1 | 0.272 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 570 | 4-2150 | 0.509 | 235.6 | -17.0 | 1.07 | 1.315 | 110.8 | 0.745 | 3.290 | 310.7 | 558.1 | 0.838 | 5.742 | 0.44 | 0.308 | 51.6 | 63.3 | 3.1 | 0.277 |
| 4- 570 | 4-2170 | 0.520 | 236.8 | -17.3 | 1.09 | 1.315 | 111.5 | 0.749 | 3.303 | 309.2 | 558.4 | 0.829 | 5.776 | 0.43 | 0.310 | 50.8 | 64.4 | 3.1 | 0.281 |
| 4- 580 | 4- 900 | 0.619 | 212.9 | -9.4 | 1.47 | 1.577 | 102.0 | 1.429 | -2.208 | 339.7 | 473.7 | 0.948 | --- | -0.25 | 0.907 | 162.0 | 80.7 | 2.9 | 0.885 |
| 4- 580 | 4- 920 | 0.572 | 211.3 | -8.6 | 1.47 | 1.539 | 100.8 | 1.318 | -2.997 | 341.1 | 476.7 | 0.953 | --- | -0.25 | 0.839 | 160.9 | 81.1 | 2.9 | 0.818 |
| 4- 580 | 4- 940 | 0.532 | 209.7 | -7.7 | 1.48 | 1.506 | 99.7 | 1.226 | -4.248 | 342.5 | 479.6 | 0.958 | --- | -0.26 | 0.778 | 159.7 | 81.4 | 2.9 | 0.757 |
| 4- 580 | 4- 960 | 0.498 | 208.0 | -6.8 | 1.50 | 1.479 | 98.6 | 1.148 | -6.504 | 343.9 | 482.5 | 0.963 | --- | -0.27 | 0.724 | 158.4 | 81.7 | 2.9 | 0.704 |
| 4- 580 | 4- 980 | 0.468 | 206.3 | -5.9 | 1.51 | 1.456 | 97.7 | 1.083 | 11.710 | 345.2 | 485.4 | 0.967 | --- | -0.28 | 0.675 | 157.1 | 81.9 | 2.9 | 0.655 |
| 4- 580 | 4-1000 | 0.443 | 204.6 | -5.0 | 1.52 | 1.436 | 96.8 | 1.027 | 35.988 | 346.5 | 488.2 | 0.970 | --- | -0.29 | 0.632 | 155.7 | 82.1 | 2.9 | 0.611 |
| 4- 580 | 4-1020 | 0.422 | 203.0 | -4.1 | 1.53 | 1.419 | 96.1 | 0.980 | 47.618 | 347.7 | 491.0 | 0.972 | --- | -0.30 | 0.592 | 154.2 | 82.3 | 2.9 | 0.572 |
| 4- 580 | 4-1040 | 0.404 | 201.4 | -3.2 | 1.55 | 1.404 | 95.4 | 0.939 | 15.969 | 348.9 | 493.7 | 0.975 | --- | -0.31 | 0.556 | 152.6 | 82.4 | 2.9 | 0.535 |
| 4- 580 | 4-1060 | 0.388 | 199.8 | -2.3 | 1.56 | 1.391 | 94.8 | 0.904 | 10.180 | 350.0 | 496.3 | 0.976 | --- | -0.32 | 0.523 | 151.0 | 82.4 | 2.9 | 0.502 |
| 4- 580 | 4-1080 | 0.374 | 198.4 | -1.5 | 1.58 | 1.380 | 94.2 | 0.874 | 7.761 | 351.0 | 498.9 | 0.978 | --- | -0.34 | 0.494 | 149.3 | 82.4 | 2.9 | 0.472 |
| 4- 580 | 4-1100 | 0.363 | 197.1 | -0.7 | 1.60 | 1.371 | 93.7 | 0.848 | 6.441 | 351.9 | 501.4 | 0.979 | --- | -0.35 | 0.466 | 147.5 | 82.3 | 2.8 | 0.445 |
| 4- 580 | 4-1120 | 0.353 | 195.8 | 0.0 | 1.62 | 1.362 | 93.3 | 0.825 | 5.615 | 352.7 | 503.8 | 0.980 | --- | -0.37 | 0.442 | 145.6 | 82.1 | 2.8 | 0.419 |
| 4- 580 | 4-1140 | 0.345 | 194.7 | 0.7 | 1.64 | 1.355 | 92.9 | 0.806 | 5.053 | 353.5 | 506.1 | 0.981 | --- | -0.39 | 0.419 | 143.6 | 81.9 | 2.8 | 0.396 |
| 4- 580 | 4-1160 | 0.337 | 193.7 | 1.3 | 1.66 | 1.349 | 92.6 | 0.789 | 4.649 | 354.2 | 508.4 | 0.981 | --- | -0.41 | 0.399 | 141.6 | 81.6 | 2.8 | 0.374 |
| 4- 580 | 4-1180 | 0.331 | 192.9 | 1.9 | 1.69 | 1.343 | 92.3 | 0.774 | 4.346 | 354.8 | 510.5 | 0.982 | --- | -0.43 | 0.380 | 139.4 | 81.2 | 2.7 | 0.355 |
| 4- 580 | 4-1200 | 0.326 | 192.2 | 2.5 | 1.72 | 1.338 | 92.1 | 0.761 | 4.112 | 355.3 | 512.6 | 0.982 | --- | -0.46 | 0.363 | 137.2 | 80.7 | 2.7 | 0.336 |
| 4- 580 | 4-1220 | 0.321 | 191.6 | 3.0 | 1.76 | 1.334 | 91.9 | 0.750 | 3.928 | 355.7 | 514.6 | 0.982 | --- | -0.49 | 0.347 | 134.9 | 80.2 | 2.6 | 0.320 |
| 4- 580 | 4-1240 | 0.317 | 191.1 | 3.4 | 1.80 | 1.330 | 91.7 | 0.740 | 3.780 | 356.0 | 516.5 | 0.983 | --- | -0.53 | 0.333 | 132.5 | 79.5 | 2.6 | 0.304 |
| 4- 580 | 4-1260 | 0.314 | 190.8 | 3.8 | 1.84 | 1.327 | 91.6 | 0.731 | 3.660 | 356.3 | 518.4 | 0.983 | --- | -0.58 | 0.321 | 130.1 | 78.8 | 2.5 | 0.290 |
| 4- 580 | 4-1280 | 0.311 | 190.6 | 4.3 | 1.90 | 1.324 | 91.5 | 0.724 | 3.560 | 356.5 | 520.1 | 0.983 | --- | -0.63 | 0.309 | 127.6 | 78.0 | 2.4 | 0.277 |
| 4- 580 | 4-1300 | 0.308 | 190.6 | 4.6 | 1.97 | 1.321 | 91.4 | 0.717 | 3.478 | 356.6 | 521.9 | 0.983 | --- | -0.70 | 0.299 | 125.1 | 77.1 | 2.3 | 0.266 |
| 4- 580 | 4-1320 | 0.306 | 190.7 | 5.1 | 2.06 | 1.319 | 91.4 | 0.712 | 3.410 | 356.6 | 523.5 | 0.983 | --- | -0.78 | 0.290 | 122.5 | 76.1 | 2.2 | 0.255 |
| 4- 580 | 4-1340 | 0.305 | 190.9 | 5.5 | 2.17 | 1.317 | 91.4 | 0.707 | 3.352 | 356.6 | 525.1 | 0.983 | --- | -0.89 | 0.282 | 119.9 | 75.1 | 2.1 | 0.245 |
| 4- 580 | 4-1360 | 0.304 | 191.4 | 6.1 | 2.31 | 1.316 | 91.4 | 0.702 | 3.303 | 356.5 | 526.6 | 0.983 | --- | -1.03 | 0.275 | 117.2 | 73.9 | 1.9 | 0.237 |
| 4- 580 | 4-1380 | 0.303 | 192.0 | 6.8 | 2.51 | 1.314 | 91.5 | 0.699 | 3.263 | 356.3 | 528.0 | 0.983 | --- | -1.23 | 0.269 | 114.6 | 72.8 | 1.6 | 0.229 |
| 4- 580 | 4-1400 | 0.303 | 192.9 | 7.8 | 2.81 | 1.313 | 91.6 | 0.696 | 3.228 | 356.1 | 529.5 | 0.983 | --- | -1.53 | 0.264 | 111.9 | 71.5 | 1.2 | 0.222 |
| 4- 580 | 4-1420 | 0.304 | 194.2 | 9.6 | 3.30 | 1.312 | 91.7 | 0.693 | 3.199 | 355.9 | 530.8 | 0.983 | --- | -2.02 | 0.260 | 109.3 | 70.3 | 0.6 | 0.216 |
| 4- 580 | 4-1440 | 0.308 | 196.3 | 13.0 | 4.26 | 1.311 | 91.8 | 0.691 | 3.175 | 355.5 | 532.1 | 0.982 | --- | -2.97 | 0.256 | 106.7 | 69.0 | -0.6 | 0.211 |
| 4- 580 | 4-1460 | 0.327 | 201.6 | 22.3 | 6.93 | 1.310 | 92.0 | 0.689 | 3.154 | 355.2 | 533.4 | 0.982 | --- | -5.64 | 0.253 | 104.1 | 67.6 | -3.8 | 0.208 |
| 4- 580 | 4-1480 | 0.982 | 288.7 | 63.0 | 47.96 | 1.310 | 92.1 | 0.687 | 3.138 | 354.8 | 534.6 | 0.982 | --- | -46.66 | 0.251 | 101.6 | 61.5 | -30.2 | 0.328 |
| 4- 580 | 4-1500 | 0.316 | 181.1 | -26.6 | -5.61 | 1.309 | 92.3 | 0.686 | 3.124 | 354.3 | 535.7 | 0.982 | --- | 6.90 | 0.249 | 99.1 | 64.6 | 11.1 | 0.203 |
| 4- 580 | 4-1520 | 0.298 | 188.5 | -13.1 | -1.98 | 1.309 | 92.5 | 0.685 | 3.113 | 353.8 | 536.9 | 0.981 | --- | 3.27 | 0.248 | 96.7 | 63.6 | 6.8 | 0.197 |
| 4- 580 | 4-1540 | 0.297 | 191.4 | -8.9 | -0.84 | 1.308 | 92.8 | 0.684 | 3.104 | 353.2 | 538.0 | 0.981 | --- | 2.14 | 0.247 | 94.4 | 62.4 | 5.4 | 0.195 |
| 4- 580 | 4-1560 | 0.297 | 193.3 | -7.1 | -0.29 | 1.308 | 93.0 | 0.684 | 3.097 | 352.6 | 539.0 | 0.980 | --- | 1.59 | 0.247 | 92.1 | 61.2 | 4.7 | 0.193 |
| 4- 580 | 4-1580 | 0.298 | 194.9 | -6.2 | 0.04 | 1.308 | 93.3 | 0.683 | 3.093 | 352.0 | 540.0 | 0.980 | 5.206 | 1.27 | 0.247 | 89.9 | 60.1 | 4.3 | 0.192 |
| 4- 580 | 4-1600 | 0.299 | 196.4 | -5.8 | 0.26 | 1.308 | 93.5 | 0.683 | 3.089 | 351.3 | 541.0 | 0.979 | 5.200 | 1.05 | 0.247 | 87.8 | 59.0 | 4.0 | 0.192 |
| 4- 580 | 4-1620 | 0.300 | 197.8 | -5.6 | 0.41 | 1.308 | 93.8 | 0.683 | 3.088 | 350.6 | 542.0 | 0.978 | 5.197 | 0.90 | 0.248 | 85.8 | 58.0 | 3.8 | 0.192 |
| 4- 580 | 4-1640 | 0.302 | 199.2 | -5.7 | 0.53 | 1.308 | 94.1 | 0.683 | 3.088 | 349.8 | 542.9 | 0.977 | 5.198 | 0.79 | 0.249 | 83.8 | 57.2 | 3.6 | 0.192 |
| 4- 580 | 4-1660 | 0.304 | 200.6 | -5.8 | 0.62 | 1.308 | 94.4 | 0.684 | 3.088 | 349.0 | 543.8 | 0.976 | 5.201 | 0.70 | 0.250 | 81.9 | 56.4 | 3.5 | 0.193 |
| 4- 580 | 4-1680 | 0.306 | 202.0 | -6.1 | 0.69 | 1.308 | 94.8 | 0.684 | 3.090 | 348.2 | 544.6 | 0.975 | 5.206 | 0.63 | 0.252 | 80.1 | 55.7 | 3.3 | 0.194 |
| 4- 580 | 4-1700 | 0.308 | 203.4 | -6.4 | 0.75 | 1.308 | 95.1 | 0.685 | 3.093 | 347.4 | 545.5 | 0.974 | 5.213 | 0.57 | 0.253 | 78.4 | 55.1 | 3.2 | 0.196 |
| 4- 580 | 4-1720 | 0.311 | 204.8 | -6.7 | 0.80 | 1.308 | 95.5 | 0.686 | 3.097 | 346.5 | 546.3 | 0.972 | 5.222 | 0.53 | 0.255 | 76.7 | 54.6 | 3.2 | 0.197 |
| 4- 580 | 4-1740 | 0.314 | 206.2 | -7.1 | 0.84 | 1.308 | 95.9 | 0.687 | 3.102 | 345.6 | 547.1 | 0.971 | 5.233 | 0.49 | 0.257 | 75.2 | 54.2 | 3.1 | 0.199 |
| 4- 580 | 4-1760 | 0.317 | 207.7 | -7.5 | 0.88 | 1.308 | 96.3 | 0.688 | 3.107 | 344.6 | 547.8 | 0.969 | 5.245 | 0.45 | 0.259 | 73.6 | 53.9 | 3.0 | 0.201 |
| 4- 580 | 4-1780 | 0.320 | 209.2 | -8.0 | 0.91 | 1.309 | 96.7 | 0.689 | 3.113 | 343.7 | 548.5 | 0.967 | 5.259 | 0.42 | 0.262 | 72.2 | 53.7 | 3.0 | 0.204 |
| 4- 580 | 4-1800 | 0.324 | 210.7 | -8.5 | 0.94 | 1.309 | 97.1 | 0.691 | 3.120 | 342.7 | 549.3 | 0.965 | 5.275 | 0.40 | 0.264 | 70.8 | 53.6 | 2.9 | 0.206 |
| 4- 580 | 4-1820 | 0.328 | 212.2 | -9.0 | 0.96 | 1.309 | 97.5 | 0.692 | 3.127 | 341.6 | 549.9 | 0.963 | 5.291 | 0.38 | 0.266 | 69.4 | 53.6 | 2.9 | 0.209 |
| 4- 580 | 4-1840 | 0.333 | 213.7 | -9.4 | 0.99 | 1.309 | 97.9 | 0.694 | 3.135 | 340.6 | 550.6 | 0.961 | 5.309 | 0.36 | 0.269 | 68.2 | 53.6 | 2.9 | 0.212 |
| 4- 580 | 4-1860 | 0.337 | 215.2 | -9.9 | 1.01 | 1.310 | 98.4 | 0.695 | 3.143 | 339.5 | 551.2 | 0.958 | 5.328 | 0.34 | 0.271 | 66.9 | 53.8 | 2.9 | 0.215 |
| 4- 580 | 4-1880 | 0.342 | 216.7 | -10.4 | 1.02 | 1.310 | 98.8 | 0.697 | 3.152 | 338.4 | 551.9 | 0.955 | 5.349 | 0.32 | 0.274 | 65.7 | 54.0 | 2.9 | 0.218 |
| 4- 580 | 4-1900 | 0.347 | 218.2 | -10.9 | 1.04 | 1.310 | 99.3 | 0.699 | 3.161 | 337.3 | 552.5 | 0.952 | 5.370 | 0.31 | 0.277 | 64.6 | 54.3 | 2.8 | 0.221 |
| 4- 580 | 4-1920 | 0.353 | 219.8 | -11.4 | 1.06 | 1.311 | 99.8 | 0.701 | 3.170 | 336.1 | 553.1 | 0.949 | 5.392 | 0.30 | 0.279 | 63.5 | 54.7 | 2.8 | 0.224 |
| 4- 580 | 4-1940 | 0.359 | 221.3 | -11.9 | 1.07 | 1.311 | 100.3 | 0.703 | 3.180 | 334.9 | 553.6 | 0.945 | 5.415 | 0.28 | 0.282 | 62.4 | 55.2 | 2.8 | 0.228 |
| 4- 580 | 4-1960 | 0.365 | 222.8 | -12.4 | 1.08 | 1.312 | 100.8 | 0.705 | 3.190 | 333.7 | 554.2 | 0.942 | 5.439 | 0.27 | 0.284 | 61.4 | 55.7 | 2.8 | 0.231 |
| 4- 580 | 4-1980 | 0.372 | 224.3 | -12.9 | 1.10 | 1.312 | 101.3 | 0.707 | 3.201 | 332.5 | 554.7 | 0.938 | 5.464 | 0.27 | 0.287 | 60.4 | 56.3 | 2.8 | 0.235 |
| 4- 580 | 4-2000 | 0.379 | 225.8 | -13.4 | 1.11 | 1.312 | 101.9 | 0.709 | 3.212 | 331.3 | 555.2 | 0.933 | 5.490 | 0.26 | 0.290 | 59.5 | 56.9 | 2.8 | 0.239 |
| 4- 580 | 4-2020 | 0.386 | 227.3 | -13.8 | 1.12 | 1.313 | 102.4 | 0.712 | 3.223 | 330.0 | 555.7 | 0.929 | 5.516 | 0.25 | 0.292 | 58.6 | 57.7 | 2.8 | 0.242 |
| 4- 580 | 4-2040 | 0.394 | 228.8 | -14.3 | 1.13 | 1.313 | 103.0 | 0.714 | 3.234 | 328.7 | 556.1 | 0.924 | 5.544 | 0.24 | 0.295 | 57.7 | 58.4 | 2.9 | 0.246 |
| 4- 580 | 4-2060 | 0.402 | 230.3 | -14.7 | 1.14 | 1.314 | 103.6 | 0.717 | 3.245 | 327.4 | 556.6 | 0.919 | 5.572 | 0.24 | 0.298 | 56.8 | 59.2 | 2.9 | 0.250 |
| 4- 580 | 4-2080 | 0.410 | 231.8 | -15.1 | 1.15 | 1.314 | 104.1 | 0.720 | 3.257 | 326.0 | 557.0 | 0.913 | 5.601 | 0.23 | 0.300 | 56.0 | 60.1 | 2.9 | 0.254 |
| 4- 580 | 4-2100 | 0.418 | 233.2 | -15.5 | 1.16 | 1.314 | 104.7 | 0.722 | 3.269 | 324.7 | 557.4 | 0.908 | 5.630 | 0.22 | 0.303 | 55.2 | 61.0 | 2.9 | 0.258 |
| 4- 580 | 4-2120 | 0.427 | 234.7 | -15.9 | 1.17 | 1.315 | 105.3 | 0.725 | 3.281 | 323.3 | 557.8 | 0.902 | 5.660 | 0.22 | 0.305 | 54.4 | 62.0 | 2.9 | 0.262 |
| 4- 580 | 4-2140 | 0.437 | 236.1 | -16.3 | 1.17 | 1.315 | 106.0 | 0.728 | 3.293 | 321.9 | 558.2 | 0.895 | 5.691 | 0.21 | 0.308 | 53.6 | 63.0 | 2.9 | 0.266 |
| 4- 580 | 4-2160 | 0.446 | 237.5 | -16.7 | 1.18 | 1.316 | 106.6 | 0.731 | 3.305 | 320.5 | 558.5 | 0.888 | 5.722 | 0.21 | 0.310 | 52.8 | 64.0 | 2.9 | 0.270 |
| 4- 580 | 4-2180 | 0.456 | 238.9 | -17.0 | 1.19 | 1.316 | 107.2 | 0.734 | 3.318 | 319.0 | 558.9 | 0.881 | 5.754 | 0.21 | 0.313 | 52.1 | 65.1 | 3.0 | 0.274 |
| 4- 590 | 4- 890 | 0.619 | 211.4 | -9.3 | 1.27 | 1.611 | 97.6 | 1.545 | -1.779 | 347.6 | 470.6 | 0.969 | --- | 0.06 | 0.965 | 162.5 | 81.1 | 3.0 | 0.941 |
| 4- 590 | 4- 910 | 0.569 | 209.5 | -8.3 | 1.27 | 1.567 | 96.4 | 1.410 | -2.372 | 349.1 | 473.7 | 0.973 | --- | 0.07 | 0.890 | 161.4 | 81.4 | 3.1 | 0.866 |
| 4- 590 | 4- 930 | 0.527 | 207.4 | -7.4 | 1.27 | 1.530 | 95.3 | 1.299 | -3.260 | 350.6 | 476.8 | 0.976 | --- | 0.07 | 0.823 | 160.3 | 81.8 | 3.1 | 0.800 |
| 4- 590 | 4- 950 | 0.492 | 205.2 | -6.4 | 1.26 | 1.499 | 94.3 | 1.208 | -4.710 | 352.1 | 479.8 | 0.978 | --- | 0.07 | 0.763 | 159.1 | 82.0 | 3.1 | 0.741 |
| 4- 590 | 4- 970 | 0.462 | 203.1 | -5.3 | 1.26 | 1.472 | 93.4 | 1.131 | -7.476 | 353.6 | 482.8 | 0.980 | --- | 0.07 | 0.710 | 157.8 | 82.3 | 3.1 | 0.688 |
| 4- 590 | 4- 990 | 0.437 | 201.0 | -4.3 | 1.26 | 1.450 | 92.6 | 1.067 | 14.709 | 355.0 | 485.8 | 0.981 | --- | 0.07 | 0.663 | 156.5 | 82.5 | 3.1 | 0.641 |
| 4- 590 | 4-1010 | 0.416 | 198.9 | -3.3 | 1.26 | 1.431 | 91.8 | 1.012 | 79.634 | 356.4 | 488.7 | 0.982 | --- | 0.07 | 0.620 | 155.1 | 82.6 | 3.1 | 0.598 |
| 4- 590 | 4-1030 | 0.399 | 196.9 | -2.4 | 1.25 | 1.414 | 91.1 | 0.966 | 29.080 | 357.7 | 491.6 | 0.983 | --- | 0.07 | 0.581 | 153.6 | 82.7 | 3.1 | 0.559 |
| 4- 590 | 4-1050 | 0.384 | 195.0 | -1.4 | 1.25 | 1.400 | 90.5 | 0.927 | 13.437 | 358.9 | 494.3 | 0.983 | --- | 0.08 | 0.545 | 152.0 | 82.8 | 3.1 | 0.524 |
| 4- 590 | 4-1070 | 0.372 | 193.2 | -0.6 | 1.25 | 1.388 | 90.0 | 0.893 | 9.202 | 0.1 | 137.0 | --- | --- | 0.08 | 0.513 | 150.4 | 82.7 | 3.1 | 0.492 |
| 4- 590 | 4-1090 | 0.361 | 191.5 | 0.2 | 1.24 | 1.377 | 89.5 | 0.864 | 7.241 | 1.1 | 139.6 | --- | --- | 0.08 | 0.484 | 148.6 | 82.7 | 3.1 | 0.462 |
| 4- 590 | 4-1110 | 0.352 | 189.9 | 1.0 | 1.24 | 1.368 | 89.1 | 0.839 | 6.117 | 2.1 | 142.2 | --- | --- | 0.08 | 0.458 | 146.8 | 82.5 | 3.1 | 0.435 |
| 4- 590 | 4-1130 | 0.345 | 188.6 | 1.6 | 1.24 | 1.360 | 88.7 | 0.818 | 5.394 | 2.9 | 144.6 | --- | --- | 0.09 | 0.434 | 144.9 | 82.3 | 3.1 | 0.411 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 590 | 4-1150 | 0.338 | 187.3 | 2.2 | 1.23 | 1.353 | 88.4 | 0.799 | 4.892 | 3.7 | 146.9 | --- | --- | 0.09 | 0.412 | 142.9 | 82.0 | 3.1 | 0.388 |
| 4- 590 | 4-1170 | 0.333 | 186.2 | 2.7 | 1.23 | 1.347 | 88.1 | 0.783 | 4.527 | 4.4 | 149.2 | --- | --- | 0.09 | 0.392 | 140.8 | 81.7 | 3.1 | 0.367 |
| 4- 590 | 4-1190 | 0.328 | 185.3 | 3.2 | 1.22 | 1.341 | 87.8 | 0.769 | 4.250 | 4.9 | 151.3 | --- | --- | 0.10 | 0.373 | 138.6 | 81.2 | 3.1 | 0.348 |
| 4- 590 | 4-1210 | 0.324 | 184.5 | 3.5 | 1.22 | 1.337 | 87.7 | 0.757 | 4.036 | 5.4 | 153.4 | --- | --- | 0.10 | 0.357 | 136.4 | 80.7 | 3.1 | 0.330 |
| 4- 590 | 4-1230 | 0.321 | 183.8 | 3.9 | 1.21 | 1.332 | 87.5 | 0.746 | 3.866 | 5.8 | 155.4 | --- | --- | 0.11 | 0.342 | 134.0 | 80.1 | 3.1 | 0.314 |
| 4- 590 | 4-1250 | 0.317 | 183.3 | 4.1 | 1.21 | 1.329 | 87.4 | 0.737 | 3.728 | 6.2 | 157.3 | --- | --- | 0.11 | 0.328 | 131.6 | 79.4 | 3.1 | 0.299 |
| 4- 590 | 4-1270 | 0.315 | 182.9 | 4.3 | 1.20 | 1.326 | 87.3 | 0.729 | 3.616 | 6.4 | 159.1 | --- | --- | 0.12 | 0.316 | 129.2 | 78.6 | 3.1 | 0.285 |
| 4- 590 | 4-1290 | 0.312 | 182.6 | 4.4 | 1.19 | 1.323 | 87.2 | 0.722 | 3.524 | 6.6 | 160.9 | --- | --- | 0.12 | 0.305 | 126.6 | 77.8 | 3.1 | 0.273 |
| 4- 590 | 4-1310 | 0.310 | 182.4 | 4.4 | 1.18 | 1.321 | 87.2 | 0.716 | 3.447 | 6.6 | 162.5 | --- | --- | 0.13 | 0.295 | 124.1 | 76.8 | 3.1 | 0.261 |
| 4- 590 | 4-1330 | 0.308 | 182.4 | 4.4 | 1.17 | 1.319 | 87.2 | 0.710 | 3.383 | 6.7 | 164.2 | --- | --- | 0.14 | 0.287 | 121.5 | 75.8 | 3.1 | 0.251 |
| 4- 590 | 4-1350 | 0.306 | 182.5 | 4.4 | 1.16 | 1.317 | 87.3 | 0.705 | 3.330 | 6.6 | 165.7 | --- | --- | 0.15 | 0.279 | 118.8 | 74.7 | 3.1 | 0.242 |
| 4- 590 | 4-1370 | 0.304 | 182.7 | 4.3 | 1.15 | 1.315 | 87.3 | 0.701 | 3.285 | 6.5 | 167.2 | --- | --- | 0.16 | 0.273 | 116.2 | 73.6 | 3.1 | 0.234 |
| 4- 590 | 4-1390 | 0.302 | 182.9 | 4.1 | 1.14 | 1.314 | 87.4 | 0.698 | 3.247 | 6.3 | 168.6 | --- | --- | 0.18 | 0.267 | 113.5 | 72.4 | 3.1 | 0.226 |
| 4- 590 | 4-1410 | 0.301 | 183.3 | 3.9 | 1.12 | 1.313 | 87.5 | 0.695 | 3.215 | 6.1 | 170.0 | --- | --- | 0.19 | 0.262 | 110.9 | 71.1 | 3.1 | 0.220 |
| 4- 590 | 4-1430 | 0.299 | 183.7 | 3.6 | 1.10 | 1.312 | 87.6 | 0.692 | 3.188 | 5.8 | 171.3 | --- | --- | 0.22 | 0.258 | 108.3 | 69.9 | 3.1 | 0.214 |
| 4- 590 | 4-1450 | 0.298 | 184.3 | 3.3 | 1.07 | 1.311 | 87.8 | 0.690 | 3.165 | 5.4 | 172.6 | --- | --- | 0.24 | 0.255 | 105.7 | 68.6 | 3.1 | 0.209 |
| 4- 590 | 4-1470 | 0.297 | 184.9 | 2.9 | 1.03 | 1.310 | 88.0 | 0.688 | 3.147 | 5.0 | 173.8 | --- | --- | 0.28 | 0.252 | 103.1 | 67.3 | 3.2 | 0.204 |
| 4- 590 | 4-1490 | 0.296 | 185.5 | 2.4 | 0.98 | 1.309 | 88.1 | 0.686 | 3.132 | 4.6 | 175.0 | --- | --- | 0.32 | 0.250 | 100.6 | 66.0 | 3.2 | 0.201 |
| 4- 590 | 4-1510 | 0.295 | 186.2 | 1.7 | 0.92 | 1.309 | 88.3 | 0.685 | 3.119 | 4.1 | 176.2 | --- | --- | 0.39 | 0.249 | 98.2 | 64.7 | 3.3 | 0.198 |
| 4- 590 | 4-1530 | 0.294 | 186.9 | 1.0 | 0.81 | 1.309 | 88.6 | 0.684 | 3.110 | 3.5 | 177.3 | --- | --- | 0.49 | 0.248 | 95.9 | 63.4 | 3.4 | 0.195 |
| 4- 590 | 4-1550 | 0.293 | 187.6 | -0.2 | 0.64 | 1.308 | 88.8 | 0.683 | 3.102 | 3.0 | 178.3 | --- | --- | 0.67 | 0.247 | 93.6 | 62.2 | 3.6 | 0.194 |
| 4- 590 | 4-1570 | 0.292 | 188.0 | -2.2 | 0.26 | 1.308 | 89.1 | 0.683 | 3.096 | 2.3 | 179.4 | --- | --- | 1.04 | 0.247 | 91.3 | 61.1 | 4.0 | 0.192 |
| 4- 590 | 4-1590 | 0.292 | 186.7 | -8.1 | -1.07 | 1.308 | 89.3 | 0.682 | 3.093 | 1.7 | 180.4 | --- | 5.202 | 2.38 | 0.247 | 89.2 | 59.9 | 5.7 | 0.192 |
| 4- 590 | 4-1610 | 0.349 | 206.3 | 31.1 | 9.58 | 1.308 | 89.6 | 0.682 | 3.090 | 1.0 | 181.3 | --- | 5.198 | -8.28 | 0.248 | 87.1 | 59.3 | -7.8 | 0.197 |
| 4- 590 | 4-1630 | 0.296 | 195.9 | 6.8 | 2.81 | 1.308 | 89.9 | 0.682 | 3.090 | 0.2 | 182.3 | --- | 5.196 | -1.51 | 0.249 | 85.2 | 58.1 | 0.6 | 0.192 |
| 4- 590 | 4-1650 | 0.294 | 196.0 | 3.5 | 2.13 | 1.308 | 90.2 | 0.682 | 3.090 | 359.5 | 543.2 | 0.983 | 5.197 | -0.83 | 0.250 | 83.3 | 57.3 | 1.5 | 0.192 |
| 4- 590 | 4-1670 | 0.294 | 196.9 | 1.9 | 1.87 | 1.308 | 90.5 | 0.682 | 3.092 | 358.7 | 544.1 | 0.983 | 5.200 | -0.57 | 0.251 | 81.4 | 56.5 | 1.8 | 0.193 |
| 4- 590 | 4-1690 | 0.294 | 198.1 | 0.7 | 1.74 | 1.308 | 90.9 | 0.682 | 3.094 | 357.8 | 544.9 | 0.983 | 5.206 | -0.44 | 0.253 | 79.7 | 55.9 | 2.0 | 0.194 |
| 4- 590 | 4-1710 | 0.294 | 199.4 | -0.2 | 1.65 | 1.308 | 91.2 | 0.683 | 3.098 | 357.0 | 545.7 | 0.983 | 5.213 | -0.35 | 0.255 | 78.0 | 55.3 | 2.1 | 0.195 |
| 4- 590 | 4-1730 | 0.295 | 200.7 | -1.1 | 1.60 | 1.308 | 91.6 | 0.683 | 3.103 | 356.1 | 546.5 | 0.982 | 5.223 | -0.30 | 0.257 | 76.4 | 54.9 | 2.1 | 0.197 |
| 4- 590 | 4-1750 | 0.296 | 202.2 | -1.9 | 1.55 | 1.309 | 92.0 | 0.684 | 3.108 | 355.2 | 547.3 | 0.982 | 5.234 | -0.26 | 0.259 | 74.9 | 54.5 | 2.2 | 0.198 |
| 4- 590 | 4-1770 | 0.297 | 203.7 | -2.7 | 1.52 | 1.309 | 92.4 | 0.685 | 3.114 | 354.2 | 548.0 | 0.981 | 5.246 | -0.22 | 0.261 | 73.4 | 54.3 | 2.2 | 0.201 |
| 4- 590 | 4-1790 | 0.299 | 205.3 | -3.4 | 1.50 | 1.309 | 92.8 | 0.686 | 3.120 | 353.2 | 548.8 | 0.981 | 5.260 | -0.20 | 0.264 | 72.0 | 54.1 | 2.2 | 0.203 |
| 4- 590 | 4-1810 | 0.301 | 206.9 | -4.2 | 1.48 | 1.309 | 93.2 | 0.687 | 3.128 | 352.2 | 549.5 | 0.980 | 5.275 | -0.18 | 0.266 | 70.7 | 54.0 | 2.3 | 0.205 |
| 4- 590 | 4-1830 | 0.303 | 208.5 | -4.9 | 1.46 | 1.310 | 93.6 | 0.688 | 3.135 | 351.2 | 550.2 | 0.979 | 5.292 | -0.17 | 0.268 | 69.4 | 54.1 | 2.3 | 0.208 |
| 4- 590 | 4-1850 | 0.305 | 210.1 | -5.7 | 1.45 | 1.310 | 94.0 | 0.689 | 3.143 | 350.1 | 550.8 | 0.977 | 5.310 | -0.15 | 0.271 | 68.2 | 54.2 | 2.3 | 0.211 |
| 4- 590 | 4-1870 | 0.308 | 211.8 | -6.4 | 1.43 | 1.310 | 94.5 | 0.690 | 3.152 | 349.0 | 551.5 | 0.976 | 5.328 | -0.14 | 0.273 | 67.0 | 54.3 | 2.3 | 0.213 |
| 4- 590 | 4-1890 | 0.311 | 213.5 | -7.1 | 1.42 | 1.311 | 94.9 | 0.692 | 3.161 | 347.9 | 552.1 | 0.974 | 5.348 | -0.13 | 0.276 | 65.9 | 54.6 | 2.3 | 0.216 |
| 4- 590 | 4-1910 | 0.315 | 215.3 | -7.8 | 1.41 | 1.311 | 95.4 | 0.693 | 3.171 | 346.8 | 552.7 | 0.973 | 5.369 | -0.12 | 0.279 | 64.8 | 54.9 | 2.4 | 0.219 |
| 4- 590 | 4-1930 | 0.319 | 217.0 | -8.5 | 1.41 | 1.311 | 95.9 | 0.695 | 3.181 | 345.7 | 553.3 | 0.971 | 5.390 | -0.12 | 0.281 | 63.8 | 55.3 | 2.4 | 0.222 |
| 4- 590 | 4-1950 | 0.323 | 218.8 | -9.2 | 1.40 | 1.312 | 96.4 | 0.696 | 3.191 | 344.5 | 553.8 | 0.969 | 5.413 | -0.11 | 0.284 | 62.8 | 55.8 | 2.4 | 0.226 |
| 4- 590 | 4-1970 | 0.327 | 220.5 | -9.9 | 1.39 | 1.312 | 96.9 | 0.698 | 3.201 | 343.3 | 554.4 | 0.966 | 5.436 | -0.10 | 0.287 | 61.8 | 56.4 | 2.4 | 0.229 |
| 4- 590 | 4-1990 | 0.332 | 222.3 | -10.6 | 1.39 | 1.313 | 97.4 | 0.700 | 3.212 | 342.1 | 554.9 | 0.964 | 5.460 | -0.10 | 0.289 | 60.9 | 56.9 | 2.5 | 0.232 |
| 4- 590 | 4-2010 | 0.337 | 224.0 | -11.2 | 1.38 | 1.313 | 97.9 | 0.702 | 3.223 | 340.8 | 556.4 | 0.961 | 5.485 | -0.09 | 0.292 | 60.0 | 57.6 | 2.5 | 0.236 |
| 4- 590 | 4-2030 | 0.343 | 225.8 | -11.8 | 1.38 | 1.313 | 98.4 | 0.704 | 3.234 | 339.6 | 555.9 | 0.958 | 5.511 | -0.09 | 0.295 | 59.1 | 58.3 | 2.5 | 0.239 |
| 4- 590 | 4-2050 | 0.349 | 227.5 | -12.4 | 1.37 | 1.314 | 99.0 | 0.706 | 3.246 | 338.3 | 556.4 | 0.954 | 5.537 | -0.09 | 0.297 | 58.3 | 59.1 | 2.5 | 0.243 |
| 4- 590 | 4-2070 | 0.355 | 229.3 | -13.0 | 1.37 | 1.314 | 99.5 | 0.708 | 3.258 | 337.0 | 556.9 | 0.951 | 5.564 | -0.08 | 0.300 | 57.5 | 59.9 | 2.6 | 0.246 |
| 4- 590 | 4-2090 | 0.362 | 231.0 | -13.6 | 1.36 | 1.315 | 100.1 | 0.710 | 3.269 | 335.6 | 557.3 | 0.947 | 5.592 | -0.08 | 0.303 | 56.7 | 60.8 | 2.6 | 0.250 |
| 4- 590 | 4-2110 | 0.369 | 232.7 | -14.1 | 1.36 | 1.315 | 100.7 | 0.713 | 3.282 | 334.3 | 557.7 | 0.943 | 5.620 | -0.08 | 0.305 | 55.9 | 61.7 | 2.6 | 0.253 |
| 4- 590 | 4-2130 | 0.376 | 234.5 | -14.6 | 1.36 | 1.315 | 101.2 | 0.715 | 3.294 | 332.9 | 558.2 | 0.938 | 5.649 | -0.08 | 0.308 | 55.2 | 62.6 | 2.7 | 0.257 |
| 4- 590 | 4-2150 | 0.384 | 236.2 | -15.1 | 1.35 | 1.316 | 101.8 | 0.718 | 3.306 | 331.5 | 558.6 | 0.934 | 5.679 | -0.07 | 0.310 | 54.5 | 63.6 | 2.7 | 0.261 |
| 4- 590 | 4-2170 | 0.392 | 237.8 | -15.6 | 1.35 | 1.316 | 102.5 | 0.720 | 3.319 | 330.1 | 558.9 | 0.929 | 5.709 | -0.07 | 0.313 | 53.8 | 64.7 | 2.7 | 0.265 |
| 4- 590 | 4-2190 | 0.400 | 239.5 | -16.1 | 1.35 | 1.317 | 103.1 | 0.723 | 3.332 | 328.7 | 559.3 | 0.923 | 5.740 | -0.07 | 0.315 | 53.1 | 65.8 | 2.7 | 0.268 |
| 4- 600 | 4- 880 | 0.636 | 208.7 | -8.6 | 1.16 | 1.649 | 92.6 | 1.674 | -1.457 | 355.8 | 467.9 | 0.982 | --- | 0.31 | 1.027 | 163.1 | 81.3 | 3.1 | 1.001 |
| 4- 600 | 4- 900 | 0.583 | 206.3 | -7.5 | 1.15 | 1.598 | 91.5 | 1.511 | -1.924 | 357.4 | 471.1 | 0.983 | --- | 0.31 | 0.943 | 162.1 | 81.7 | 3.1 | 0.918 |
| 4- 600 | 4- 920 | 0.540 | 203.8 | -6.4 | 1.14 | 1.555 | 90.5 | 1.379 | -2.594 | 359.1 | 474.3 | 0.983 | --- | 0.31 | 0.869 | 161.0 | 82.0 | 3.1 | 0.845 |
| 4- 600 | 4- 940 | 0.504 | 201.3 | -5.3 | 1.13 | 1.520 | 89.6 | 1.271 | -3.625 | 0.7 | 117.5 | --- | --- | 0.32 | 0.804 | 159.9 | 82.2 | 3.2 | 0.781 |
| 4- 600 | 4- 960 | 0.474 | 198.8 | -4.2 | 1.12 | 1.490 | 88.7 | 1.182 | -5.390 | 2.4 | 120.6 | --- | --- | 0.32 | 0.746 | 158.7 | 82.4 | 3.2 | 0.723 |
| 4- 600 | 4- 980 | 0.450 | 196.3 | -3.0 | 1.11 | 1.464 | 87.9 | 1.108 | -9.054 | 4.0 | 123.8 | --- | --- | 0.33 | 0.694 | 157.4 | 82.6 | 3.2 | 0.672 |
| 4- 600 | 4-1000 | 0.430 | 193.9 | -2.0 | 1.10 | 1.443 | 87.2 | 1.047 | 21.027 | 5.5 | 126.8 | --- | --- | 0.33 | 0.647 | 156.0 | 82.8 | 3.2 | 0.626 |
| 4- 600 | 4-1020 | 0.414 | 191.6 | -0.9 | 1.09 | 1.424 | 86.6 | 0.995 | 86.433 | 6.9 | 129.8 | --- | --- | 0.34 | 0.605 | 154.6 | 82.8 | 3.2 | 0.584 |
| 4- 600 | 4-1040 | 0.401 | 189.5 | 0.0 | 1.08 | 1.408 | 86.0 | 0.951 | 19.893 | 8.3 | 132.7 | --- | --- | 0.34 | 0.567 | 153.1 | 82.9 | 3.2 | 0.546 |
| 4- 600 | 4-1060 | 0.390 | 187.5 | 0.9 | 1.07 | 1.395 | 85.4 | 0.914 | 11.298 | 9.5 | 135.6 | --- | --- | 0.35 | 0.533 | 151.5 | 82.9 | 3.2 | 0.512 |
| 4- 600 | 4-1080 | 0.380 | 185.6 | 1.7 | 1.06 | 1.383 | 85.0 | 0.882 | 8.249 | 10.7 | 138.3 | --- | --- | 0.36 | 0.501 | 149.8 | 82.8 | 3.2 | 0.480 |
| 4- 600 | 4-1100 | 0.373 | 184.0 | 2.4 | 1.04 | 1.373 | 84.6 | 0.855 | 6.698 | 11.8 | 140.9 | --- | --- | 0.37 | 0.473 | 148.0 | 82.6 | 3.2 | 0.452 |
| 4- 600 | 4-1120 | 0.366 | 182.5 | 3.1 | 1.03 | 1.364 | 84.2 | 0.831 | 5.764 | 12.7 | 143.4 | --- | --- | 0.37 | 0.447 | 146.1 | 82.4 | 3.3 | 0.425 |
| 4- 600 | 4-1140 | 0.361 | 181.1 | 3.6 | 1.02 | 1.356 | 83.9 | 0.811 | 5.144 | 13.6 | 145.9 | --- | --- | 0.38 | 0.423 | 144.2 | 82.1 | 3.3 | 0.401 |
| 4- 600 | 4-1160 | 0.357 | 180.0 | 4.1 | 1.00 | 1.349 | 83.6 | 0.794 | 4.706 | 14.4 | 148.2 | --- | --- | 0.39 | 0.402 | 142.1 | 81.8 | 3.3 | 0.379 |
| 4- 600 | 4-1180 | 0.353 | 179.0 | 4.5 | 0.99 | 1.344 | 83.4 | 0.779 | 4.382 | 15.0 | 150.4 | --- | --- | 0.40 | 0.382 | 140.0 | 81.4 | 3.3 | 0.359 |
| 4- 600 | 4-1200 | 0.349 | 178.1 | 4.8 | 0.97 | 1.339 | 83.3 | 0.766 | 4.135 | 15.6 | 152.5 | --- | --- | 0.42 | 0.365 | 137.8 | 80.9 | 3.3 | 0.340 |
| 4- 600 | 4-1220 | 0.346 | 177.4 | 5.1 | 0.95 | 1.334 | 83.1 | 0.755 | 3.941 | 16.0 | 154.6 | --- | --- | 0.43 | 0.349 | 135.5 | 80.3 | 3.3 | 0.323 |
| 4- 600 | 4-1240 | 0.343 | 176.8 | 5.3 | 0.93 | 1.330 | 83.0 | 0.745 | 3.787 | 16.4 | 156.5 | --- | --- | 0.44 | 0.334 | 133.1 | 79.6 | 3.4 | 0.308 |
| 4- 600 | 4-1260 | 0.341 | 176.4 | 5.4 | 0.91 | 1.327 | 82.9 | 0.736 | 3.662 | 16.7 | 158.4 | --- | --- | 0.46 | 0.321 | 130.7 | 78.8 | 3.4 | 0.293 |
| 4- 600 | 4-1280 | 0.338 | 176.0 | 5.5 | 0.89 | 1.324 | 82.9 | 0.729 | 3.560 | 16.9 | 160.2 | --- | --- | 0.47 | 0.309 | 128.2 | 78.0 | 3.4 | 0.280 |
| 4- 600 | 4-1300 | 0.336 | 175.8 | 5.5 | 0.87 | 1.321 | 82.9 | 0.722 | 3.476 | 17.0 | 161.9 | --- | --- | 0.49 | 0.299 | 125.6 | 77.1 | 3.4 | 0.268 |
| 4- 600 | 4-1320 | 0.334 | 175.7 | 5.5 | 0.85 | 1.319 | 82.9 | 0.716 | 3.406 | 17.0 | 163.5 | --- | --- | 0.51 | 0.290 | 123.0 | 76.1 | 3.5 | 0.258 |
| 4- 600 | 4-1340 | 0.332 | 175.7 | 5.4 | 0.82 | 1.317 | 82.9 | 0.711 | 3.347 | 17.0 | 165.1 | --- | --- | 0.54 | 0.282 | 120.3 | 75.1 | 3.5 | 0.248 |
| 4- 600 | 4-1360 | 0.329 | 175.8 | 5.2 | 0.79 | 1.315 | 83.0 | 0.707 | 3.298 | 16.9 | 166.6 | --- | --- | 0.56 | 0.274 | 117.7 | 73.9 | 3.5 | 0.239 |
| 4- 600 | 4-1380 | 0.327 | 176.0 | 5.0 | 0.76 | 1.314 | 83.1 | 0.703 | 3.257 | 16.7 | 168.1 | --- | --- | 0.59 | 0.268 | 115.0 | 72.8 | 3.6 | 0.231 |
| 4- 600 | 4-1400 | 0.325 | 176.2 | 4.8 | 0.72 | 1.313 | 83.2 | 0.700 | 3.222 | 16.5 | 169.5 | --- | --- | 0.62 | 0.263 | 112.3 | 71.5 | 3.6 | 0.224 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 600 | 4-1420 | 0.323 | 176.6 | 4.5 | 0.68 | 1.312 | 83.3 | 0.697 | 3.193 | 16.2 | 170.8 | --- | --- | 0.66 | 0.259 | 109.7 | 70.3 | 3.6 | 0.218 |
| 4- 600 | 4-1440 | 0.321 | 177.0 | 4.1 | 0.63 | 1.311 | 83.5 | 0.694 | 3.169 | 15.9 | 172.1 | --- | --- | 0.70 | 0.255 | 107.1 | 69.0 | 3.7 | 0.212 |
| 4- 600 | 4-1460 | 0.319 | 177.5 | 3.7 | 0.58 | 1.310 | 83.7 | 0.692 | 3.149 | 15.5 | 173.3 | --- | --- | 0.75 | 0.252 | 104.5 | 67.7 | 3.7 | 0.208 |
| 4- 600 | 4-1480 | 0.317 | 178.0 | 3.2 | 0.52 | 1.309 | 83.9 | 0.690 | 3.133 | 15.1 | 174.5 | --- | --- | 0.81 | 0.250 | 101.9 | 66.4 | 3.8 | 0.204 |
| 4- 600 | 4-1500 | 0.315 | 178.6 | 2.6 | 0.45 | 1.309 | 84.1 | 0.689 | 3.119 | 14.6 | 175.7 | --- | --- | 0.88 | 0.248 | 99.5 | 65.2 | 3.9 | 0.200 |
| 4- 600 | 4-1520 | 0.312 | 179.3 | 1.9 | 0.36 | 1.308 | 84.3 | 0.687 | 3.109 | 14.0 | 176.8 | --- | --- | 0.96 | 0.247 | 97.1 | 63.9 | 3.9 | 0.198 |
| 4- 600 | 4-1540 | 0.310 | 180.0 | 1.2 | 0.26 | 1.308 | 84.5 | 0.686 | 3.100 | 13.5 | 177.8 | --- | --- | 1.05 | 0.246 | 94.7 | 62.7 | 4.0 | 0.196 |
| 4- 600 | 4-1560 | 0.308 | 180.7 | 0.3 | 0.13 | 1.308 | 84.8 | 0.685 | 3.094 | 12.8 | 178.9 | --- | --- | 1.17 | 0.246 | 92.5 | 61.6 | 4.2 | 0.194 |
| 4- 600 | 4-1580 | 0.307 | 181.4 | -0.7 | -0.02 | 1.308 | 85.1 | 0.685 | 3.090 | 12.2 | 179.9 | --- | --- | 1.33 | 0.246 | 90.3 | 60.5 | 4.4 | 0.193 |
| 4- 600 | 4-1600 | 0.305 | 182.2 | -2.0 | -0.23 | 1.308 | 85.3 | 0.684 | 3.088 | 11.5 | 180.8 | --- | 5.199 | 1.53 | 0.247 | 88.2 | 59.5 | 4.6 | 0.192 |
| 4- 600 | 4-1620 | 0.303 | 182.8 | -3.6 | -0.52 | 1.307 | 85.6 | 0.684 | 3.086 | 10.8 | 181.8 | --- | 5.196 | 1.81 | 0.248 | 86.2 | 58.5 | 4.9 | 0.192 |
| 4- 600 | 4-1640 | 0.302 | 183.3 | -5.8 | -0.93 | 1.308 | 85.9 | 0.683 | 3.087 | 10.0 | 182.7 | --- | 5.196 | 2.23 | 0.249 | 84.2 | 57.7 | 5.5 | 0.193 |
| 4- 600 | 4-1660 | 0.301 | 183.3 | -9.0 | -1.59 | 1.308 | 86.3 | 0.683 | 3.088 | 9.2 | 183.6 | --- | 5.198 | 2.88 | 0.250 | 82.4 | 56.9 | 6.3 | 0.193 |
| 4- 600 | 4-1680 | 0.304 | 182.5 | -14.4 | -2.81 | 1.308 | 86.6 | 0.683 | 3.091 | 8.4 | 184.4 | --- | 5.202 | 4.10 | 0.252 | 80.6 | 56.2 | 7.8 | 0.195 |
| 4- 600 | 4-1700 | 0.319 | 178.1 | -26.0 | -5.82 | 1.308 | 86.9 | 0.683 | 3.094 | 7.5 | 185.2 | --- | 5.208 | 7.10 | 0.254 | 78.9 | 55.6 | 11.4 | 0.199 |
| 4- 600 | 4-1720 | 0.570 | 131.9 | -61.3 | -24.40 | 1.308 | 87.3 | 0.683 | 3.099 | 6.7 | 186.1 | --- | 5.216 | 25.67 | 0.256 | 77.3 | 55.6 | 28.7 | 0.245 |
| 4- 600 | 4-1740 | 0.431 | 217.2 | 45.1 | 15.69 | 1.308 | 87.7 | 0.684 | 3.104 | 5.7 | 186.8 | --- | 5.226 | -14.41 | 0.258 | 75.8 | 55.9 | -14.3 | 0.214 |
| 4- 600 | 4-1760 | 0.326 | 204.9 | 21.5 | 7.05 | 1.308 | 88.1 | 0.684 | 3.110 | 4.8 | 187.6 | --- | 5.237 | -5.78 | 0.260 | 74.3 | 54.9 | -4.7 | 0.202 |
| 4- 600 | 4-1780 | 0.309 | 203.0 | 13.1 | 4.87 | 1.309 | 88.5 | 0.685 | 3.116 | 3.8 | 188.3 | --- | 5.250 | -3.61 | 0.262 | 72.9 | 54.6 | -2.0 | 0.202 |
| 4- 600 | 4-1800 | 0.303 | 203.1 | 8.6 | 3.88 | 1.309 | 88.9 | 0.685 | 3.124 | 2.8 | 189.0 | --- | 5.264 | -2.62 | 0.265 | 71.6 | 54.4 | -0.7 | 0.204 |
| 4- 600 | 4-1820 | 0.300 | 203.9 | 5.7 | 3.31 | 1.309 | 89.3 | 0.686 | 3.131 | 1.8 | 189.7 | --- | 5.280 | -2.06 | 0.267 | 70.3 | 54.4 | -0.0 | 0.206 |
| 4- 600 | 4-1840 | 0.299 | 205.0 | 3.6 | 2.94 | 1.310 | 89.7 | 0.687 | 3.140 | 0.8 | 190.4 | --- | 5.296 | -1.69 | 0.270 | 69.1 | 54.4 | 0.4 | 0.208 |
| 4- 600 | 4-1860 | 0.298 | 206.3 | 1.8 | 2.68 | 1.310 | 90.1 | 0.688 | 3.149 | 359.7 | 551.1 | 0.984 | 5.314 | -1.44 | 0.272 | 67.9 | 54.6 | 0.8 | 0.211 |
| 4- 600 | 4-1880 | 0.298 | 207.9 | 0.3 | 2.49 | 1.310 | 90.6 | 0.689 | 3.158 | 358.6 | 551.7 | 0.983 | 5.332 | -1.25 | 0.275 | 66.8 | 54.8 | 1.0 | 0.214 |
| 4- 600 | 4-1900 | 0.299 | 209.5 | -1.0 | 2.35 | 1.311 | 91.0 | 0.690 | 3.167 | 357.5 | 552.3 | 0.983 | 5.352 | -1.11 | 0.278 | 65.7 | 55.1 | 1.2 | 0.216 |
| 4- 600 | 4-1920 | 0.300 | 211.2 | -2.2 | 2.23 | 1.311 | 91.5 | 0.691 | 3.177 | 356.4 | 552.9 | 0.983 | 5.372 | -1.00 | 0.280 | 64.7 | 55.4 | 1.4 | 0.219 |
| 4- 600 | 4-1940 | 0.301 | 212.9 | -3.4 | 2.13 | 1.311 | 92.0 | 0.692 | 3.188 | 355.2 | 553.5 | 0.982 | 5.393 | -0.90 | 0.283 | 63.7 | 55.9 | 1.5 | 0.222 |
| 4- 600 | 4-1960 | 0.303 | 214.7 | -4.4 | 2.05 | 1.312 | 92.4 | 0.693 | 3.198 | 354.0 | 554.1 | 0.981 | 5.415 | -0.83 | 0.286 | 62.8 | 56.4 | 1.6 | 0.225 |
| 4- 600 | 4-1980 | 0.305 | 216.6 | -5.5 | 1.98 | 1.312 | 92.9 | 0.695 | 3.209 | 352.8 | 554.6 | 0.980 | 5.438 | -0.76 | 0.289 | 61.9 | 56.9 | 1.7 | 0.228 |
| 4- 600 | 4-2000 | 0.307 | 218.5 | -6.4 | 1.93 | 1.313 | 93.4 | 0.696 | 3.220 | 351.6 | 555.2 | 0.979 | 5.462 | -0.71 | 0.291 | 61.0 | 57.5 | 1.8 | 0.231 |
| 4- 600 | 4-2020 | 0.310 | 220.4 | -7.4 | 1.87 | 1.313 | 94.0 | 0.697 | 3.232 | 350.4 | 555.7 | 0.978 | 5.486 | -0.66 | 0.294 | 60.2 | 58.2 | 1.9 | 0.234 |
| 4- 600 | 4-2040 | 0.313 | 222.4 | -8.3 | 1.83 | 1.313 | 94.5 | 0.699 | 3.244 | 349.1 | 556.2 | 0.976 | 5.511 | -0.62 | 0.297 | 59.4 | 58.9 | 2.0 | 0.238 |
| 4- 600 | 4-2060 | 0.317 | 224.3 | -9.1 | 1.79 | 1.314 | 95.0 | 0.701 | 3.255 | 347.8 | 556.7 | 0.974 | 5.536 | -0.59 | 0.299 | 58.6 | 59.7 | 2.0 | 0.241 |
| 4- 600 | 4-2080 | 0.321 | 226.3 | -10.0 | 1.75 | 1.314 | 95.6 | 0.702 | 3.268 | 346.5 | 557.1 | 0.972 | 5.563 | -0.56 | 0.302 | 57.8 | 60.5 | 2.1 | 0.244 |
| 4- 600 | 4-2100 | 0.326 | 228.3 | -10.8 | 1.72 | 1.315 | 96.1 | 0.704 | 3.280 | 345.2 | 557.6 | 0.970 | 5.589 | -0.53 | 0.305 | 57.1 | 61.4 | 2.1 | 0.248 |
| 4- 600 | 4-2120 | 0.331 | 230.3 | -11.5 | 1.69 | 1.315 | 96.7 | 0.706 | 3.292 | 343.9 | 558.0 | 0.968 | 5.617 | -0.51 | 0.307 | 56.4 | 62.3 | 2.2 | 0.251 |
| 4- 600 | 4-2140 | 0.336 | 232.2 | -12.2 | 1.67 | 1.316 | 97.2 | 0.708 | 3.305 | 342.5 | 558.4 | 0.965 | 5.645 | -0.48 | 0.310 | 55.7 | 63.3 | 2.3 | 0.254 |
| 4- 600 | 4-2160 | 0.342 | 234.2 | -12.9 | 1.64 | 1.316 | 97.8 | 0.710 | 3.318 | 341.1 | 558.9 | 0.962 | 5.673 | -0.46 | 0.312 | 55.0 | 64.3 | 2.3 | 0.258 |
| 4- 600 | 4-2180 | 0.348 | 236.2 | -13.6 | 1.62 | 1.317 | 98.4 | 0.712 | 3.330 | 339.7 | 559.3 | 0.958 | 5.703 | -0.45 | 0.315 | 54.4 | 65.3 | 2.4 | 0.261 |
| 4- 600 | 4-2200 | 0.354 | 238.1 | -14.2 | 1.60 | 1.317 | 99.0 | 0.714 | 3.343 | 338.3 | 559.6 | 0.955 | 5.732 | -0.43 | 0.317 | 53.7 | 66.4 | 2.4 | 0.265 |
| 4- 610 | 4- 890 | 0.622 | 202.5 | -6.3 | 1.09 | 1.632 | 86.1 | 1.619 | -1.584 | 6.2 | 108.9 | --- | --- | 0.52 | 1.000 | 162.8 | 81.7 | 3.2 | 0.975 |
| 4- 610 | 4- 910 | 0.576 | 199.7 | -5.2 | 1.08 | 1.583 | 85.2 | 1.463 | -2.113 | 8.0 | 112.3 | --- | --- | 0.52 | 0.918 | 161.8 | 82.0 | 3.2 | 0.894 |
| 4- 610 | 4- 930 | 0.539 | 197.0 | -3.9 | 1.06 | 1.542 | 84.4 | 1.337 | -2.893 | 9.8 | 115.6 | --- | --- | 0.52 | 0.846 | 160.7 | 82.2 | 3.2 | 0.823 |
| 4- 610 | 4- 950 | 0.510 | 194.2 | -2.7 | 1.05 | 1.508 | 83.6 | 1.235 | -4.141 | 11.6 | 118.9 | --- | --- | 0.53 | 0.782 | 159.6 | 82.4 | 3.2 | 0.760 |
| 4- 610 | 4- 970 | 0.486 | 191.6 | -1.6 | 1.03 | 1.479 | 82.9 | 1.151 | -6.424 | 13.3 | 122.2 | --- | --- | 0.53 | 0.725 | 158.3 | 82.6 | 3.2 | 0.704 |
| 4- 610 | 4- 990 | 0.467 | 189.1 | -0.5 | 1.02 | 1.455 | 82.2 | 1.082 | 11.861 | 15.0 | 125.4 | --- | --- | 0.54 | 0.675 | 157.0 | 82.7 | 3.3 | 0.655 |
| 4- 610 | 4-1010 | 0.452 | 186.7 | 0.5 | 1.00 | 1.434 | 81.6 | 1.024 | 40.686 | 16.6 | 128.6 | --- | --- | 0.54 | 0.629 | 155.7 | 82.7 | 3.3 | 0.610 |
| 4- 610 | 4-1030 | 0.440 | 184.5 | 1.5 | 0.98 | 1.416 | 81.1 | 0.975 | 38.911 | 18.1 | 131.6 | --- | --- | 0.55 | 0.588 | 154.2 | 82.8 | 3.3 | 0.569 |
| 4- 610 | 4-1050 | 0.430 | 182.5 | 2.3 | 0.97 | 1.401 | 80.6 | 0.935 | 14.634 | 19.5 | 134.6 | --- | --- | 0.56 | 0.551 | 152.7 | 82.7 | 3.3 | 0.532 |
| 4- 610 | 4-1070 | 0.422 | 180.7 | 3.0 | 0.95 | 1.388 | 80.2 | 0.900 | 9.558 | 20.8 | 137.4 | --- | --- | 0.56 | 0.517 | 151.0 | 82.6 | 3.3 | 0.499 |
| 4- 610 | 4-1090 | 0.415 | 179.1 | 3.7 | 0.93 | 1.377 | 79.8 | 0.871 | 7.372 | 22.0 | 140.1 | --- | --- | 0.57 | 0.487 | 149.3 | 82.5 | 3.3 | 0.469 |
| 4- 610 | 4-1110 | 0.410 | 177.7 | 4.3 | 0.92 | 1.367 | 79.5 | 0.846 | 6.163 | 23.0 | 142.7 | --- | --- | 0.58 | 0.459 | 147.5 | 82.3 | 3.4 | 0.441 |
| 4- 610 | 4-1130 | 0.405 | 176.4 | 4.8 | 0.90 | 1.359 | 79.2 | 0.825 | 5.400 | 24.0 | 145.2 | --- | --- | 0.59 | 0.434 | 145.6 | 82.0 | 3.4 | 0.415 |
| 4- 610 | 4-1150 | 0.401 | 175.3 | 5.2 | 0.88 | 1.352 | 79.0 | 0.807 | 4.879 | 24.8 | 147.6 | --- | --- | 0.60 | 0.411 | 143.6 | 81.6 | 3.4 | 0.392 |
| 4- 610 | 4-1170 | 0.398 | 174.4 | 5.5 | 0.86 | 1.345 | 78.8 | 0.791 | 4.504 | 25.5 | 149.9 | --- | --- | 0.61 | 0.390 | 141.5 | 81.2 | 3.4 | 0.371 |
| 4- 610 | 4-1190 | 0.395 | 173.6 | 5.8 | 0.84 | 1.340 | 78.6 | 0.777 | 4.222 | 26.1 | 152.1 | --- | --- | 0.62 | 0.371 | 139.3 | 80.7 | 3.5 | 0.351 |
| 4- 610 | 4-1210 | 0.392 | 172.9 | 6.0 | 0.82 | 1.335 | 78.5 | 0.765 | 4.005 | 26.6 | 154.2 | --- | --- | 0.64 | 0.354 | 137.0 | 80.1 | 3.5 | 0.333 |
| 4- 610 | 4-1230 | 0.389 | 172.4 | 6.2 | 0.79 | 1.331 | 78.4 | 0.755 | 3.833 | 27.0 | 156.2 | --- | --- | 0.65 | 0.339 | 134.6 | 79.4 | 3.5 | 0.317 |
| 4- 610 | 4-1250 | 0.387 | 172.0 | 6.3 | 0.77 | 1.327 | 78.4 | 0.746 | 3.696 | 27.3 | 158.1 | --- | --- | 0.67 | 0.325 | 132.2 | 78.7 | 3.5 | 0.302 |
| 4- 610 | 4-1270 | 0.384 | 171.6 | 6.3 | 0.74 | 1.324 | 78.4 | 0.739 | 3.585 | 27.5 | 159.9 | --- | --- | 0.68 | 0.312 | 129.7 | 77.8 | 3.6 | 0.288 |
| 4- 610 | 4-1290 | 0.382 | 171.4 | 6.3 | 0.72 | 1.321 | 78.4 | 0.732 | 3.493 | 27.6 | 161.6 | --- | --- | 0.70 | 0.301 | 127.1 | 76.9 | 3.6 | 0.276 |
| 4- 610 | 4-1310 | 0.379 | 171.3 | 6.3 | 0.69 | 1.319 | 78.4 | 0.726 | 3.417 | 27.7 | 163.2 | --- | --- | 0.72 | 0.291 | 124.5 | 76.0 | 3.6 | 0.264 |
| 4- 610 | 4-1330 | 0.377 | 171.3 | 6.2 | 0.66 | 1.317 | 78.5 | 0.721 | 3.354 | 27.7 | 164.8 | --- | --- | 0.74 | 0.282 | 121.8 | 74.9 | 3.7 | 0.254 |
| 4- 610 | 4-1350 | 0.374 | 171.4 | 6.1 | 0.63 | 1.315 | 78.5 | 0.716 | 3.302 | 27.6 | 166.3 | --- | --- | 0.76 | 0.275 | 119.1 | 73.8 | 3.7 | 0.245 |
| 4- 610 | 4-1370 | 0.371 | 171.5 | 5.9 | 0.60 | 1.313 | 78.6 | 0.712 | 3.258 | 27.4 | 167.8 | --- | --- | 0.79 | 0.268 | 116.4 | 72.7 | 3.7 | 0.237 |
| 4- 610 | 4-1390 | 0.369 | 171.7 | 5.7 | 0.56 | 1.312 | 78.8 | 0.708 | 3.221 | 27.2 | 169.1 | --- | --- | 0.82 | 0.262 | 113.7 | 71.5 | 3.8 | 0.229 |
| 4- 610 | 4-1410 | 0.366 | 172.0 | 5.4 | 0.52 | 1.311 | 78.9 | 0.705 | 3.190 | 26.9 | 170.5 | --- | --- | 0.85 | 0.257 | 111.0 | 70.3 | 3.8 | 0.223 |
| 4- 610 | 4-1430 | 0.363 | 172.3 | 5.2 | 0.48 | 1.310 | 79.1 | 0.703 | 3.165 | 26.6 | 171.8 | --- | --- | 0.88 | 0.254 | 108.3 | 69.0 | 3.8 | 0.217 |
| 4- 610 | 4-1450 | 0.360 | 172.7 | 4.8 | 0.43 | 1.309 | 79.3 | 0.700 | 3.144 | 26.2 | 173.0 | --- | --- | 0.92 | 0.250 | 105.7 | 67.7 | 3.9 | 0.212 |
| 4- 610 | 4-1470 | 0.357 | 173.2 | 4.4 | 0.38 | 1.308 | 79.5 | 0.698 | 3.126 | 25.7 | 174.2 | --- | --- | 0.96 | 0.248 | 103.1 | 66.5 | 3.9 | 0.208 |
| 4- 610 | 4-1490 | 0.354 | 173.7 | 4.0 | 0.33 | 1.308 | 79.7 | 0.696 | 3.112 | 25.2 | 175.3 | --- | --- | 1.01 | 0.246 | 100.5 | 65.2 | 4.0 | 0.204 |
| 4- 610 | 4-1510 | 0.351 | 174.3 | 3.5 | 0.27 | 1.307 | 79.9 | 0.694 | 3.101 | 24.7 | 176.4 | --- | --- | 1.06 | 0.245 | 98.1 | 64.0 | 4.0 | 0.201 |
| 4- 610 | 4-1530 | 0.348 | 174.9 | 3.0 | 0.20 | 1.307 | 80.2 | 0.693 | 3.092 | 24.1 | 177.5 | --- | --- | 1.13 | 0.244 | 95.7 | 62.8 | 4.1 | 0.199 |
| 4- 610 | 4-1550 | 0.345 | 175.6 | 2.4 | 0.12 | 1.307 | 80.4 | 0.692 | 3.086 | 23.5 | 178.5 | --- | --- | 1.19 | 0.244 | 93.3 | 61.7 | 4.2 | 0.197 |
| 4- 610 | 4-1570 | 0.342 | 176.3 | 1.7 | 0.03 | 1.307 | 80.7 | 0.691 | 3.081 | 22.8 | 179.5 | --- | --- | 1.27 | 0.244 | 91.1 | 60.6 | 4.3 | 0.196 |
| 4- 610 | 4-1590 | 0.339 | 177.1 | 1.0 | -0.07 | 1.307 | 81.0 | 0.690 | 3.079 | 22.1 | 180.5 | --- | 5.202 | 1.37 | 0.244 | 89.0 | 59.6 | 4.4 | 0.195 |
| 4- 610 | 4-1610 | 0.336 | 177.8 | 0.2 | -0.18 | 1.307 | 81.3 | 0.689 | 3.077 | 21.4 | 181.4 | --- | 5.198 | 1.47 | 0.245 | 86.9 | 58.7 | 4.5 | 0.194 |
| 4- 610 | 4-1630 | 0.333 | 178.6 | -0.8 | -0.32 | 1.307 | 81.6 | 0.689 | 3.078 | 20.6 | 182.3 | --- | 5.196 | 1.60 | 0.246 | 84.9 | 57.8 | 4.6 | 0.194 |
| 4- 610 | 4-1650 | 0.330 | 179.4 | -1.8 | -0.48 | 1.307 | 81.9 | 0.688 | 3.079 | 19.8 | 183.2 | --- | 5.197 | 1.76 | 0.248 | 83.1 | 57.1 | 4.8 | 0.194 |
| 4- 610 | 4-1670 | 0.327 | 180.2 | -3.0 | -0.68 | 1.307 | 82.3 | 0.688 | 3.082 | 19.0 | 184.0 | --- | 5.201 | 1.95 | 0.249 | 81.3 | 56.4 | 5.0 | 0.195 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 610 | 4-1690 | 0.324 | 181.0 | -4.5 | -0.93 | 1.307 | 82.6 | 0.687 | 3.085 | 18.2 | 184.8 | --- | 5.206 | 2.19 | 0.251 | 79.6 | 55.8 | 5.3 | 0.196 |
| 4- 610 | 4-1710 | 0.322 | 181.7 | -6.2 | -1.25 | 1.307 | 83.0 | 0.687 | 3.090 | 17.3 | 185.6 | --- | 5.213 | 2.50 | 0.253 | 77.9 | 55.3 | 5.7 | 0.197 |
| 4- 610 | 4-1730 | 0.320 | 182.3 | -8.4 | -1.68 | 1.307 | 83.3 | 0.687 | 3.095 | 16.4 | 186.4 | --- | 5.222 | 2.92 | 0.255 | 76.4 | 54.9 | 6.2 | 0.199 |
| 4- 610 | 4-1750 | 0.318 | 182.6 | -11.3 | -2.28 | 1.307 | 83.7 | 0.687 | 3.101 | 15.4 | 187.2 | --- | 5.232 | 3.52 | 0.258 | 74.9 | 54.6 | 6.9 | 0.201 |
| 4- 610 | 4-1770 | 0.319 | 182.4 | -15.4 | -3.20 | 1.308 | 84.1 | 0.687 | 3.108 | 14.5 | 187.9 | --- | 5.244 | 4.43 | 0.260 | 73.5 | 54.4 | 7.9 | 0.203 |
| 4- 610 | 4-1790 | 0.324 | 181.0 | -21.7 | -4.75 | 1.308 | 84.5 | 0.688 | 3.115 | 13.5 | 188.6 | --- | 5.257 | 5.98 | 0.263 | 72.1 | 54.3 | 9.7 | 0.206 |
| 4- 610 | 4-1810 | 0.347 | 176.0 | -32.9 | -8.00 | 1.308 | 84.9 | 0.688 | 3.123 | 12.5 | 189.3 | --- | 5.272 | 9.22 | 0.265 | 70.8 | 54.3 | 13.4 | 0.212 |
| 4- 610 | 4-1830 | 0.482 | 150.6 | -55.3 | -18.66 | 1.309 | 85.3 | 0.688 | 3.132 | 11.5 | 190.0 | --- | 5.287 | 19.87 | 0.268 | 69.6 | 55.1 | 23.6 | 0.238 |
| 4- 610 | 4-1850 | 1.165 | 318.0 | 74.4 | 58.47 | 1.309 | 85.9 | 0.689 | 3.141 | 10.1 | 190.7 | --- | 5.304 | -57.27 | 0.270 | 68.5 | 63.3 | -30.8 | 0.384 |
| 4- 610 | 4-1870 | 0.426 | 218.0 | 41.9 | 15.03 | 1.309 | 86.2 | 0.689 | 3.150 | 9.2 | 191.3 | --- | 5.321 | -13.84 | 0.273 | 67.4 | 55.9 | -12.8 | 0.227 |
| 4- 610 | 4-1890 | 0.348 | 211.1 | 25.0 | 8.80 | 1.310 | 86.7 | 0.690 | 3.160 | 8.1 | 191.9 | --- | 5.340 | -7.61 | 0.276 | 66.3 | 55.5 | -6.2 | 0.220 |
| 4- 610 | 4-1910 | 0.325 | 209.5 | 16.6 | 6.42 | 1.310 | 87.1 | 0.690 | 3.170 | 7.0 | 192.6 | --- | 5.359 | -5.24 | 0.279 | 65.3 | 55.6 | -3.5 | 0.220 |
| 4- 610 | 4-1930 | 0.315 | 209.5 | 11.4 | 5.16 | 1.311 | 87.6 | 0.691 | 3.181 | 5.9 | 193.1 | --- | 5.380 | -3.99 | 0.281 | 64.3 | 55.9 | -2.0 | 0.222 |
| 4- 610 | 4-1950 | 0.310 | 210.3 | 7.8 | 4.39 | 1.311 | 88.1 | 0.692 | 3.192 | 4.7 | 193.7 | --- | 5.401 | -3.22 | 0.284 | 63.4 | 56.4 | -1.1 | 0.224 |
| 4- 610 | 4-1970 | 0.306 | 211.4 | 5.1 | 3.86 | 1.311 | 88.6 | 0.693 | 3.203 | 3.5 | 194.3 | --- | 5.422 | -2.71 | 0.287 | 62.5 | 56.9 | -0.5 | 0.226 |
| 4- 610 | 4-1990 | 0.304 | 212.9 | 2.9 | 3.48 | 1.312 | 89.0 | 0.694 | 3.214 | 2.3 | 194.8 | --- | 5.445 | -2.33 | 0.290 | 61.6 | 57.4 | -0.0 | 0.229 |
| 4- 610 | 4-2010 | 0.303 | 214.5 | 1.0 | 3.19 | 1.312 | 89.5 | 0.695 | 3.226 | 1.1 | 195.4 | --- | 5.468 | -2.05 | 0.293 | 60.8 | 58.1 | 0.3 | 0.232 |
| 4- 610 | 4-2030 | 0.303 | 216.2 | -0.7 | 2.96 | 1.313 | 90.1 | 0.696 | 3.238 | 359.9 | 555.9 | 0.984 | 5.492 | -1.83 | 0.295 | 60.0 | 58.8 | 0.6 | 0.235 |
| 4- 610 | 4-2050 | 0.303 | 218.1 | -2.2 | 2.78 | 1.313 | 90.6 | 0.697 | 3.250 | 358.6 | 556.4 | 0.984 | 5.516 | -1.65 | 0.298 | 59.3 | 59.5 | 0.9 | 0.238 |
| 4- 610 | 4-2070 | 0.304 | 220.0 | -3.6 | 2.63 | 1.314 | 91.1 | 0.698 | 3.262 | 357.3 | 556.9 | 0.984 | 5.541 | -1.51 | 0.301 | 58.6 | 60.3 | 1.1 | 0.241 |
| 4- 610 | 4-2090 | 0.305 | 222.0 | -4.9 | 2.50 | 1.314 | 91.6 | 0.700 | 3.275 | 356.0 | 557.4 | 0.983 | 5.566 | -1.39 | 0.303 | 57.9 | 61.1 | 1.2 | 0.244 |
| 4- 610 | 4-2110 | 0.307 | 224.1 | -6.1 | 2.39 | 1.314 | 92.2 | 0.701 | 3.288 | 354.7 | 557.8 | 0.983 | 5.593 | -1.29 | 0.306 | 57.2 | 62.0 | 1.4 | 0.247 |
| 4- 610 | 4-2130 | 0.309 | 226.2 | -7.2 | 2.29 | 1.315 | 92.7 | 0.703 | 3.300 | 353.4 | 558.3 | 0.982 | 5.619 | -1.20 | 0.309 | 56.5 | 62.9 | 1.5 | 0.250 |
| 4- 610 | 4-2150 | 0.311 | 228.3 | -8.2 | 2.21 | 1.315 | 93.3 | 0.704 | 3.313 | 352.0 | 558.7 | 0.980 | 5.646 | -1.12 | 0.311 | 55.9 | 63.9 | 1.6 | 0.253 |
| 4- 610 | 4-2170 | 0.315 | 230.4 | -9.2 | 2.14 | 1.316 | 93.9 | 0.706 | 3.327 | 350.7 | 559.1 | 0.979 | 5.674 | -1.06 | 0.314 | 55.3 | 64.9 | 1.7 | 0.257 |
| 4- 610 | 4-2190 | 0.318 | 232.6 | -10.2 | 2.07 | 1.316 | 94.4 | 0.707 | 3.340 | 349.3 | 559.5 | 0.977 | 5.702 | -1.00 | 0.316 | 54.7 | 66.0 | 1.8 | 0.260 |
| 4- 610 | 4-2210 | 0.322 | 234.8 | -11.1 | 2.01 | 1.317 | 95.0 | 0.709 | 3.353 | 347.9 | 559.9 | 0.975 | 5.731 | -0.95 | 0.319 | 54.1 | 67.0 | 1.9 | 0.263 |
| 4- 620 | 4- 900 | 0.640 | 195.9 | -3.9 | 1.06 | 1.613 | 79.4 | 1.549 | -1.746 | 17.4 | 110.8 | --- | --- | 0.71 | 0.971 | 162.7 | 81.8 | 3.3 | 0.948 |
| 4- 620 | 4- 920 | 0.601 | 193.0 | -2.7 | 1.04 | 1.566 | 78.7 | 1.404 | -2.361 | 19.4 | 114.2 | --- | --- | 0.71 | 0.891 | 161.7 | 82.0 | 3.3 | 0.869 |
| 4- 620 | 4- 940 | 0.571 | 190.3 | -1.5 | 1.02 | 1.527 | 78.0 | 1.287 | -3.301 | 21.3 | 117.7 | --- | --- | 0.71 | 0.820 | 160.6 | 82.2 | 3.3 | 0.800 |
| 4- 620 | 4- 960 | 0.547 | 187.7 | -0.4 | 1.00 | 1.495 | 77.3 | 1.193 | -4.889 | 23.2 | 121.2 | --- | --- | 0.72 | 0.758 | 159.4 | 82.3 | 3.3 | 0.739 |
| 4- 620 | 4- 980 | 0.528 | 185.3 | 0.6 | 0.98 | 1.467 | 76.8 | 1.116 | -8.103 | 25.1 | 124.6 | --- | --- | 0.72 | 0.703 | 158.2 | 82.4 | 3.3 | 0.685 |
| 4- 620 | 4-1000 | 0.513 | 183.0 | 1.6 | 0.96 | 1.444 | 76.2 | 1.052 | 17.874 | 26.8 | 127.8 | --- | --- | 0.72 | 0.653 | 156.9 | 82.4 | 3.3 | 0.637 |
| 4- 620 | 4-1020 | 0.501 | 181.0 | 2.4 | 0.94 | 1.424 | 75.8 | 1.000 | 37.357 | 28.5 | 131.0 | --- | --- | 0.73 | 0.609 | 155.5 | 82.4 | 3.3 | 0.593 |
| 4- 620 | 4-1040 | 0.492 | 179.1 | 3.2 | 0.92 | 1.408 | 75.4 | 0.956 | 20.861 | 30.0 | 134.1 | --- | --- | 0.73 | 0.569 | 154.0 | 82.3 | 3.4 | 0.554 |
| 4- 620 | 4-1060 | 0.484 | 177.5 | 3.8 | 0.90 | 1.393 | 75.0 | 0.919 | 11.342 | 31.4 | 137.0 | --- | --- | 0.74 | 0.533 | 152.4 | 82.2 | 3.4 | 0.518 |
| 4- 620 | 4-1080 | 0.478 | 176.0 | 4.4 | 0.88 | 1.381 | 74.7 | 0.888 | 8.170 | 32.6 | 139.9 | --- | --- | 0.74 | 0.500 | 150.7 | 82.0 | 3.4 | 0.486 |
| 4- 620 | 4-1100 | 0.472 | 174.7 | 4.9 | 0.86 | 1.370 | 74.4 | 0.862 | 6.595 | 33.8 | 142.6 | --- | --- | 0.75 | 0.470 | 149.0 | 81.8 | 3.4 | 0.457 |
| 4- 620 | 4-1120 | 0.468 | 173.6 | 5.3 | 0.83 | 1.361 | 74.2 | 0.840 | 5.660 | 34.8 | 145.1 | --- | --- | 0.76 | 0.443 | 147.1 | 81.5 | 3.5 | 0.430 |
| 4- 620 | 4-1140 | 0.464 | 172.7 | 5.6 | 0.81 | 1.353 | 74.0 | 0.821 | 5.045 | 35.6 | 147.6 | --- | --- | 0.76 | 0.419 | 145.1 | 81.1 | 3.5 | 0.405 |
| 4- 620 | 4-1160 | 0.460 | 171.9 | 5.9 | 0.79 | 1.346 | 73.8 | 0.805 | 4.613 | 36.4 | 149.9 | --- | --- | 0.77 | 0.397 | 143.1 | 80.7 | 3.5 | 0.383 |
| 4- 620 | 4-1180 | 0.457 | 171.2 | 6.1 | 0.76 | 1.340 | 73.7 | 0.791 | 4.295 | 37.0 | 152.1 | --- | --- | 0.78 | 0.376 | 140.9 | 80.1 | 3.5 | 0.363 |
| 4- 620 | 4-1200 | 0.454 | 170.6 | 6.3 | 0.74 | 1.335 | 73.6 | 0.779 | 4.054 | 37.5 | 154.2 | --- | --- | 0.79 | 0.358 | 138.6 | 79.5 | 3.6 | 0.344 |
| 4- 620 | 4-1220 | 0.451 | 170.2 | 6.4 | 0.72 | 1.331 | 73.6 | 0.768 | 3.866 | 38.0 | 156.2 | --- | --- | 0.80 | 0.341 | 136.3 | 78.9 | 3.6 | 0.327 |
| 4- 620 | 4-1240 | 0.448 | 169.8 | 6.5 | 0.69 | 1.327 | 73.6 | 0.759 | 3.717 | 38.3 | 158.1 | --- | --- | 0.82 | 0.327 | 133.8 | 78.1 | 3.6 | 0.311 |
| 4- 620 | 4-1260 | 0.446 | 169.6 | 6.5 | 0.66 | 1.323 | 73.6 | 0.751 | 3.596 | 38.5 | 159.9 | --- | --- | 0.83 | 0.313 | 131.3 | 77.3 | 3.7 | 0.297 |
| 4- 620 | 4-1280 | 0.443 | 169.4 | 6.5 | 0.64 | 1.320 | 73.6 | 0.745 | 3.498 | 38.6 | 161.6 | --- | --- | 0.84 | 0.301 | 128.7 | 76.4 | 3.7 | 0.284 |
| 4- 620 | 4-1300 | 0.440 | 169.3 | 6.5 | 0.61 | 1.318 | 73.7 | 0.738 | 3.417 | 38.7 | 163.2 | --- | --- | 0.86 | 0.291 | 126.0 | 75.4 | 3.7 | 0.272 |
| 4- 620 | 4-1320 | 0.437 | 169.3 | 6.4 | 0.58 | 1.316 | 73.8 | 0.733 | 3.351 | 38.6 | 164.8 | --- | --- | 0.88 | 0.281 | 123.3 | 74.4 | 3.7 | 0.261 |
| 4- 620 | 4-1340 | 0.434 | 169.4 | 6.3 | 0.55 | 1.314 | 73.9 | 0.728 | -3.295 | 38.5 | 166.3 | --- | --- | 0.90 | 0.273 | 120.6 | 73.3 | 3.8 | 0.252 |
| 4- 620 | 4-1360 | 0.431 | 169.5 | 6.2 | 0.51 | 1.312 | 74.0 | 0.724 | 3.249 | 38.3 | 167.7 | --- | --- | 0.92 | 0.266 | 117.8 | 72.2 | 3.8 | 0.243 |
| 4- 620 | 4-1380 | 0.427 | 169.7 | 6.0 | 0.48 | 1.311 | 74.2 | 0.720 | 3.210 | 38.1 | 169.1 | --- | --- | 0.94 | 0.260 | 115.0 | 71.0 | 3.8 | 0.235 |
| 4- 620 | 4-1400 | 0.424 | 169.9 | 5.8 | 0.44 | 1.309 | 74.3 | 0.717 | 3.178 | 37.8 | 170.4 | --- | --- | 0.96 | 0.255 | 112.2 | 69.8 | 3.9 | 0.229 |
| 4- 620 | 4-1420 | 0.421 | 170.2 | 5.5 | 0.41 | 1.308 | 74.5 | 0.714 | 3.152 | 37.4 | 171.6 | --- | --- | 0.99 | 0.250 | 109.5 | 68.5 | 3.9 | 0.223 |
| 4- 620 | 4-1440 | 0.417 | 170.6 | 5.3 | 0.37 | 1.308 | 74.7 | 0.711 | 3.130 | 37.0 | 172.9 | --- | --- | 1.02 | 0.247 | 106.7 | 67.3 | 3.9 | 0.217 |
| 4- 620 | 4-1460 | 0.413 | 171.0 | 5.0 | 0.32 | 1.307 | 74.9 | 0.709 | 3.112 | 36.5 | 174.0 | --- | --- | 1.05 | 0.244 | 104.1 | 66.1 | 4.0 | 0.213 |
| 4- 620 | 4-1480 | 0.410 | 171.4 | 4.6 | 0.28 | 1.306 | 75.2 | 0.707 | 3.097 | 36.0 | 175.1 | --- | --- | 1.08 | 0.242 | 101.4 | 64.8 | 4.0 | 0.209 |
| 4- 620 | 4-1500 | 0.406 | 171.9 | 4.3 | 0.23 | 1.306 | 75.4 | 0.705 | 3.086 | 35.5 | 176.2 | --- | --- | 1.12 | 0.241 | 98.9 | 63.7 | 4.0 | 0.206 |
| 4- 620 | 4-1520 | 0.402 | 172.4 | 3.9 | 0.18 | 1.306 | 75.7 | 0.703 | 3.077 | 34.9 | 177.3 | --- | --- | 1.16 | 0.240 | 96.4 | 62.5 | 4.1 | 0.203 |
| 4- 620 | 4-1540 | 0.398 | 173.0 | 3.4 | 0.12 | 1.305 | 76.0 | 0.702 | 3.070 | 34.2 | 178.3 | --- | --- | 1.21 | 0.240 | 94.0 | 61.4 | 4.1 | 0.201 |
| 4- 620 | 4-1560 | 0.394 | 173.6 | 3.0 | 0.06 | 1.305 | 76.3 | 0.701 | 3.066 | 33.6 | 179.3 | --- | --- | 1.26 | 0.240 | 91.7 | 60.3 | 4.2 | 0.200 |
| 4- 620 | 4-1580 | 0.390 | 174.3 | 2.4 | -0.01 | 1.305 | 76.6 | 0.699 | 3.063 | 32.9 | 180.2 | --- | 5.206 | 1.31 | 0.240 | 89.5 | 59.4 | 4.2 | 0.198 |
| 4- 620 | 4-1600 | 0.385 | 174.9 | 1.9 | -0.08 | 1.305 | 76.9 | 0.698 | 3.062 | 32.1 | 181.1 | --- | 5.201 | 1.38 | 0.241 | 87.4 | 58.5 | 4.3 | 0.198 |
| 4- 620 | 4-1620 | 0.381 | 175.7 | 1.3 | -0.17 | 1.305 | 77.2 | 0.697 | 3.062 | 31.3 | 182.0 | --- | 5.198 | 1.45 | 0.242 | 85.4 | 57.6 | 4.4 | 0.197 |
| 4- 620 | 4-1640 | 0.377 | 176.4 | 0.6 | -0.26 | 1.305 | 77.5 | 0.697 | 3.064 | 30.5 | 182.9 | --- | 5.199 | 1.53 | 0.244 | 83.4 | 56.9 | 4.4 | 0.198 |
| 4- 620 | 4-1660 | 0.373 | 177.2 | -0.1 | -0.36 | 1.305 | 77.9 | 0.696 | 3.067 | 29.7 | 183.7 | --- | 5.201 | 1.62 | 0.246 | 81.6 | 56.2 | 4.5 | 0.198 |
| 4- 620 | 4-1680 | 0.369 | 178.0 | -0.9 | -0.47 | 1.305 | 78.2 | 0.695 | 3.071 | 28.8 | 184.5 | --- | 5.206 | 1.72 | 0.248 | 79.9 | 55.7 | 4.6 | 0.199 |
| 4- 620 | 4-1700 | 0.364 | 178.8 | -1.8 | -0.60 | 1.305 | 78.6 | 0.695 | 3.075 | 27.9 | 185.3 | --- | 5.212 | 1.84 | 0.250 | 78.2 | 55.2 | 4.8 | 0.200 |
| 4- 620 | 4-1720 | 0.360 | 179.7 | -2.8 | -0.76 | 1.306 | 79.0 | 0.694 | 3.081 | 27.0 | 186.1 | --- | 5.221 | 1.98 | 0.252 | 76.6 | 54.8 | 4.9 | 0.201 |
| 4- 620 | 4-1740 | 0.356 | 180.5 | -3.9 | -0.93 | 1.306 | 79.4 | 0.694 | 3.087 | 26.1 | 186.8 | --- | 5.230 | 2.15 | 0.254 | 75.1 | 54.5 | 5.1 | 0.202 |
| 4- 620 | 4-1760 | 0.352 | 181.4 | -5.2 | -1.15 | 1.306 | 79.7 | 0.694 | 3.094 | 25.1 | 187.6 | --- | 5.242 | 2.35 | 0.257 | 73.7 | 54.3 | 5.3 | 0.204 |
| 4- 620 | 4-1780 | 0.348 | 182.2 | -6.6 | -1.40 | 1.307 | 80.1 | 0.694 | 3.102 | 24.1 | 188.3 | --- | 5.254 | 2.60 | 0.259 | 72.3 | 54.1 | 5.6 | 0.206 |
| 4- 620 | 4-1800 | 0.345 | 183.0 | -8.3 | -1.72 | 1.307 | 80.6 | 0.694 | 3.111 | 23.1 | 189.0 | --- | 5.268 | 2.90 | 0.262 | 71.0 | 54.1 | 6.0 | 0.208 |
| 4- 620 | 4-1820 | 0.342 | 183.7 | -10.3 | -2.12 | 1.307 | 81.0 | 0.694 | 3.119 | 22.1 | 189.6 | --- | 5.283 | 3.29 | 0.265 | 69.8 | 54.1 | 6.4 | 0.210 |
| 4- 620 | 4-1840 | 0.339 | 184.1 | -12.9 | -2.65 | 1.308 | 81.4 | 0.694 | 3.129 | 21.0 | 190.3 | --- | 5.299 | 3.81 | 0.268 | 68.7 | 54.3 | 7.0 | 0.212 |
| 4- 620 | 4-1860 | 0.338 | 184.3 | -16.1 | -3.38 | 1.308 | 81.8 | 0.694 | 3.138 | 20.0 | 191.0 | --- | 5.315 | 4.54 | 0.270 | 67.5 | 54.4 | 7.8 | 0.215 |
| 4- 620 | 4-1880 | 0.340 | 183.9 | -20.6 | -4.46 | 1.308 | 82.3 | 0.694 | 3.149 | 18.9 | 191.6 | --- | 5.333 | 5.60 | 0.273 | 66.5 | 54.7 | 8.9 | 0.218 |
| 4- 620 | 4-1900 | 0.347 | 182.1 | -27.1 | -6.20 | 1.309 | 82.7 | 0.694 | 3.159 | 17.8 | 192.2 | --- | 5.352 | 7.34 | 0.276 | 65.5 | 55.1 | 10.8 | 0.222 |
| 4- 620 | 4-1920 | 0.373 | 176.8 | -37.4 | -9.51 | 1.309 | 83.2 | 0.694 | 3.170 | 16.6 | 192.8 | --- | 5.371 | 10.63 | 0.279 | 64.5 | 55.7 | 14.2 | 0.229 |
| 4- 620 | 4-1940 | 0.481 | 156.2 | -54.4 | -18.06 | 1.310 | 83.6 | 0.695 | 3.181 | 15.5 | 193.4 | --- | 5.392 | 19.17 | 0.282 | 63.6 | 57.0 | 22.0 | 0.250 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 620 | 4-1960 | 1.297 | 72.6 | -45.4 | -66.32 | 1.310 | 84.0 | 0.695 | 3.193 | 14.7 | 193.9 | --- | 5.413 | 67.42 | 0.285 | 62.7 | 67.8 | 35.2 | 0.437 |
| 4- 620 | 4-1980 | 0.622 | 234.0 | 59.8 | 27.07 | 1.310 | 84.7 | 0.696 | 3.204 | 12.9 | 194.5 | --- | 5.434 | -25.99 | 0.288 | 61.9 | 60.8 | -21.3 | 0.274 |
| 4- 620 | 4-2000 | 0.411 | 219.8 | 35.9 | 13.54 | 1.311 | 85.2 | 0.696 | 3.216 | 11.7 | 195.0 | --- | 5.456 | -12.47 | 0.291 | 61.1 | 58.9 | -10.5 | 0.242 |
| 4- 620 | 4-2020 | 0.358 | 216.5 | 23.6 | 9.20 | 1.311 | 85.7 | 0.697 | 3.229 | 10.5 | 195.6 | --- | 5.479 | -8.13 | 0.293 | 60.4 | 59.0 | -6.1 | 0.239 |
| 4- 620 | 4-2040 | 0.336 | 215.8 | 16.2 | 7.08 | 1.312 | 86.2 | 0.698 | 3.241 | 9.3 | 196.1 | --- | 5.502 | -6.03 | 0.296 | 59.6 | 59.5 | -3.8 | 0.239 |
| 4- 620 | 4-2060 | 0.325 | 216.2 | 11.3 | 5.83 | 1.312 | 86.7 | 0.698 | 3.254 | 8.1 | 196.6 | --- | 5.526 | -4.79 | 0.299 | 58.9 | 60.2 | -2.4 | 0.241 |
| 4- 620 | 4-2080 | 0.318 | 217.2 | 7.6 | 5.00 | 1.313 | 87.2 | 0.699 | 3.267 | 6.8 | 197.1 | --- | 5.551 | -3.97 | 0.302 | 58.3 | 60.9 | -1.5 | 0.243 |
| 4- 620 | 4-2100 | 0.314 | 218.6 | 4.7 | 4.42 | 1.313 | 87.7 | 0.700 | 3.280 | 5.5 | 197.5 | --- | 5.576 | -3.39 | 0.304 | 57.6 | 61.8 | -0.8 | 0.246 |
| 4- 620 | 4-2120 | 0.311 | 220.2 | 2.3 | 3.98 | 1.314 | 88.3 | 0.701 | 3.293 | 4.2 | 198.0 | --- | 5.601 | -2.97 | 0.307 | 57.0 | 62.7 | -0.4 | 0.248 |
| 4- 620 | 4-2140 | 0.309 | 221.9 | 0.2 | 3.63 | 1.314 | 88.8 | 0.702 | 3.306 | 2.8 | 198.5 | --- | 5.627 | -2.63 | 0.310 | 56.4 | 63.6 | 0.0 | 0.251 |
| 4- 620 | 4-2160 | 0.308 | 223.8 | -1.6 | 3.36 | 1.315 | 89.4 | 0.703 | 3.320 | 1.5 | 198.9 | --- | 5.654 | -2.37 | 0.312 | 55.8 | 64.6 | 0.4 | 0.254 |
| 4- 620 | 4-2180 | 0.307 | 225.9 | -3.2 | 3.13 | 1.315 | 89.9 | 0.704 | 3.333 | 0.1 | 199.3 | --- | 5.681 | -2.16 | 0.315 | 55.2 | 65.6 | 0.6 | 0.257 |
| 4- 620 | 4-2200 | 0.307 | 228.0 | -4.7 | 2.95 | 1.316 | 90.5 | 0.706 | 3.347 | 358.8 | 559.7 | 0.985 | 5.708 | -1.98 | 0.318 | 54.7 | 66.6 | 0.8 | 0.260 |
| 4- 620 | 4-2220 | 0.308 | 230.2 | -6.0 | 2.79 | 1.316 | 91.1 | 0.707 | 3.360 | 357.4 | 560.1 | 0.985 | 5.736 | -1.83 | 0.320 | 54.1 | 67.7 | 1.0 | 0.263 |
| 4- 630 | 4- 950 | 0.632 | 185.1 | 0.2 | 1.00 | 1.512 | 71.3 | 1.232 | -3.866 | 33.7 | 120.8 | --- | --- | 0.89 | 0.793 | 160.7 | 81.8 | 3.3 | 0.778 |
| 4- 630 | 4- 970 | 0.612 | 182.9 | 1.2 | 0.98 | 1.481 | 70.9 | 1.147 | -6.024 | 35.7 | 124.3 | --- | --- | 0.89 | 0.733 | 159.6 | 81.9 | 3.4 | 0.719 |
| 4- 630 | 4- 990 | 0.596 | 180.9 | 2.0 | 0.95 | 1.455 | 70.4 | 1.079 | 11.159 | 37.6 | 127.7 | --- | --- | 0.89 | 0.679 | 158.3 | 81.9 | 3.4 | 0.667 |
| 4- 630 | 4-1010 | 0.583 | 179.1 | 2.8 | 0.93 | 1.433 | 70.1 | 1.023 | 38.216 | 39.4 | 131.1 | --- | --- | 0.89 | 0.630 | 157.0 | 81.8 | 3.4 | 0.620 |
| 4- 630 | 4-1030 | 0.573 | 177.4 | 3.4 | 0.90 | 1.414 | 69.7 | 0.977 | 37.235 | 41.0 | 134.2 | --- | --- | 0.89 | 0.587 | 155.5 | 81.7 | 3.4 | 0.578 |
| 4- 630 | 4-1050 | 0.564 | 176.0 | 4.0 | 0.88 | 1.398 | 69.5 | 0.938 | 13.982 | 42.5 | 137.3 | --- | --- | 0.89 | 0.548 | 154.0 | 81.6 | 3.4 | 0.540 |
| 4- 630 | 4-1070 | 0.557 | 174.7 | 4.4 | 0.86 | 1.384 | 69.2 | 0.906 | 9.150 | 43.9 | 140.2 | --- | --- | 0.90 | 0.513 | 152.4 | 81.3 | 3.5 | 0.505 |
| 4- 630 | 4-1090 | 0.551 | 173.7 | 4.8 | 0.83 | 1.373 | 69.0 | 0.880 | 7.072 | 45.0 | 142.9 | --- | --- | 0.90 | 0.481 | 150.6 | 81.1 | 3.5 | 0.474 |
| 4- 630 | 4-1110 | 0.546 | 172.7 | 5.2 | 0.81 | 1.363 | 68.8 | 0.857 | 5.924 | 46.1 | 145.5 | --- | --- | 0.90 | 0.452 | 148.8 | 80.7 | 3.5 | 0.446 |
| 4- 630 | 4-1130 | 0.542 | 171.9 | 5.5 | 0.78 | 1.354 | 68.7 | 0.838 | 5.202 | 47.0 | 148.0 | --- | --- | 0.91 | 0.426 | 146.9 | 80.3 | 3.5 | 0.420 |
| 4- 630 | 4-1150 | 0.538 | 171.3 | 5.7 | 0.76 | 1.347 | 68.6 | 0.821 | 4.709 | 47.7 | 150.3 | --- | --- | 0.91 | 0.402 | 144.8 | 79.8 | 3.6 | 0.396 |
| 4- 630 | 4-1170 | 0.534 | 170.7 | 5.9 | 0.73 | 1.340 | 68.6 | 0.807 | 4.354 | 48.4 | 152.5 | --- | --- | 0.92 | 0.380 | 142.7 | 79.3 | 3.6 | 0.375 |
| 4- 630 | 4-1190 | 0.530 | 170.3 | 6.0 | 0.70 | 1.335 | 68.5 | 0.795 | 4.089 | 48.9 | 154.6 | --- | --- | 0.93 | 0.361 | 140.4 | 78.7 | 3.6 | 0.355 |
| 4- 630 | 4-1210 | 0.527 | 169.9 | 6.1 | 0.68 | 1.330 | 68.5 | 0.785 | 3.884 | 49.3 | 156.6 | --- | --- | 0.93 | 0.343 | 138.1 | 78.0 | 3.6 | 0.337 |
| 4- 630 | 4-1230 | 0.523 | 169.6 | 6.1 | 0.65 | 1.326 | 68.5 | 0.776 | 3.724 | 49.6 | 158.5 | --- | --- | 0.94 | 0.327 | 135.6 | 77.2 | 3.7 | 0.321 |
| 4- 630 | 4-1250 | 0.520 | 169.5 | 6.1 | 0.62 | 1.322 | 68.6 | 0.768 | 3.595 | 49.8 | 160.2 | --- | --- | 0.95 | 0.313 | 133.1 | 76.4 | 3.7 | 0.306 |
| 4- 630 | 4-1270 | 0.516 | 169.3 | 6.1 | 0.59 | 1.319 | 68.7 | 0.761 | 3.491 | 49.9 | 161.9 | --- | --- | 0.96 | 0.300 | 130.4 | 75.5 | 3.7 | 0.293 |
| 4- 630 | 4-1290 | 0.512 | 169.3 | 6.1 | 0.56 | 1.316 | 68.8 | 0.754 | 3.406 | 49.9 | 163.5 | --- | --- | 0.97 | 0.289 | 127.7 | 74.5 | 3.7 | 0.280 |
| 4- 630 | 4-1310 | 0.509 | 169.3 | 6.0 | 0.53 | 1.314 | 68.9 | 0.749 | 3.336 | 49.8 | 165.1 | --- | --- | 0.98 | 0.279 | 125.0 | 73.5 | 3.8 | 0.269 |
| 4- 630 | 4-1330 | 0.505 | 169.4 | 5.9 | 0.50 | 1.312 | 69.0 | 0.744 | 3.278 | 49.7 | 166.5 | --- | --- | 1.00 | 0.270 | 122.1 | 72.4 | 3.8 | 0.259 |
| 4- 630 | 4-1350 | 0.501 | 169.5 | 5.8 | 0.47 | 1.310 | 69.2 | 0.740 | 3.230 | 49.5 | 167.9 | --- | --- | 1.01 | 0.262 | 119.3 | 71.2 | 3.8 | 0.251 |
| 4- 630 | 4-1370 | 0.497 | 169.7 | 5.6 | 0.44 | 1.309 | 69.4 | 0.736 | 3.191 | 49.2 | 169.2 | --- | --- | 1.03 | 0.256 | 116.4 | 70.1 | 3.9 | 0.243 |
| 4- 630 | 4-1390 | 0.493 | 169.9 | 5.4 | 0.41 | 1.307 | 69.6 | 0.733 | 3.158 | 48.8 | 170.5 | --- | --- | 1.05 | 0.250 | 113.5 | 68.9 | 3.9 | 0.235 |
| 4- 630 | 4-1410 | 0.489 | 170.2 | 5.2 | 0.37 | 1.306 | 69.8 | 0.729 | 3.130 | 48.5 | 171.7 | --- | --- | 1.07 | 0.246 | 110.6 | 67.7 | 3.9 | 0.229 |
| 4- 630 | 4-1430 | 0.485 | 170.5 | 5.0 | 0.33 | 1.305 | 70.0 | 0.727 | 3.108 | 48.0 | 172.9 | --- | --- | 1.09 | 0.242 | 107.8 | 66.5 | 3.9 | 0.224 |
| 4- 630 | 4-1450 | 0.480 | 170.8 | 4.8 | 0.29 | 1.305 | 70.3 | 0.724 | 3.090 | 47.5 | 174.1 | --- | --- | 1.11 | 0.239 | 105.0 | 65.3 | 4.0 | 0.219 |
| 4- 630 | 4-1470 | 0.476 | 171.2 | 4.5 | 0.25 | 1.304 | 70.5 | 0.722 | 3.075 | 47.0 | 175.1 | --- | --- | 1.13 | 0.237 | 102.3 | 64.1 | 4.0 | 0.215 |
| 4- 630 | 4-1490 | 0.471 | 171.6 | 4.2 | 0.21 | 1.304 | 70.8 | 0.720 | 3.063 | 46.4 | 176.2 | --- | --- | 1.16 | 0.235 | 99.6 | 62.9 | 4.0 | 0.212 |
| 4- 630 | 4-1510 | 0.467 | 172.1 | 3.9 | 0.17 | 1.303 | 71.1 | 0.718 | 3.055 | 45.8 | 177.2 | --- | --- | 1.19 | 0.234 | 97.0 | 61.8 | 4.0 | 0.209 |
| 4- 630 | 4-1530 | 0.462 | 172.6 | 3.6 | 0.12 | 1.303 | 71.4 | 0.716 | 3.048 | 45.1 | 178.2 | --- | --- | 1.22 | 0.234 | 94.5 | 60.7 | 4.1 | 0.207 |
| 4- 630 | 4-1550 | 0.457 | 173.1 | 3.2 | 0.07 | 1.303 | 71.7 | 0.714 | 3.044 | 44.4 | 179.1 | --- | --- | 1.25 | 0.234 | 92.1 | 59.7 | 4.1 | 0.205 |
| 4- 630 | 4-1570 | 0.452 | 173.7 | 2.8 | 0.02 | 1.303 | 72.0 | 0.713 | 3.041 | 43.7 | 180.1 | --- | 5.209 | 1.29 | 0.235 | 89.8 | 58.8 | 4.1 | 0.204 |
| 4- 630 | 4-1590 | 0.447 | 174.3 | 2.4 | -0.04 | 1.303 | 72.3 | 0.711 | 3.041 | 42.9 | 181.0 | --- | 5.204 | 1.33 | 0.236 | 87.7 | 57.9 | 4.1 | 0.203 |
| 4- 630 | 4-1610 | 0.442 | 174.9 | 1.9 | -0.10 | 1.303 | 72.7 | 0.710 | 3.041 | 42.1 | 181.8 | --- | 5.201 | 1.38 | 0.237 | 85.6 | 57.1 | 4.2 | 0.202 |
| 4- 630 | 4-1630 | 0.437 | 175.5 | 1.4 | -0.16 | 1.303 | 73.0 | 0.709 | 3.043 | 41.3 | 182.7 | --- | 5.201 | 1.43 | 0.239 | 83.6 | 56.4 | 4.2 | 0.202 |
| 4- 630 | 4-1650 | 0.432 | 176.2 | 0.9 | -0.23 | 1.303 | 73.4 | 0.708 | 3.046 | 40.4 | 183.5 | --- | 5.203 | 1.48 | 0.240 | 81.7 | 55.8 | 4.3 | 0.203 |
| 4- 630 | 4-1670 | 0.426 | 176.9 | 0.4 | -0.30 | 1.303 | 73.8 | 0.707 | 3.050 | 39.5 | 184.3 | --- | 5.207 | 1.54 | 0.243 | 79.9 | 55.2 | 4.3 | 0.203 |
| 4- 630 | 4-1690 | 0.421 | 177.7 | -0.2 | -0.39 | 1.303 | 74.1 | 0.706 | 3.056 | 38.6 | 185.0 | --- | 5.213 | 1.61 | 0.245 | 78.2 | 54.8 | 4.4 | 0.204 |
| 4- 630 | 4-1710 | 0.416 | 178.4 | -0.9 | -0.48 | 1.304 | 74.5 | 0.705 | 3.062 | 37.7 | 185.8 | --- | 5.221 | 1.68 | 0.247 | 76.6 | 54.4 | 4.5 | 0.205 |
| 4- 630 | 4-1730 | 0.411 | 179.2 | -1.6 | -0.57 | 1.304 | 74.9 | 0.705 | 3.068 | 36.8 | 186.5 | --- | 5.231 | 1.77 | 0.250 | 75.0 | 54.1 | 4.6 | 0.206 |
| 4- 630 | 4-1750 | 0.405 | 180.0 | -2.3 | -0.68 | 1.304 | 75.3 | 0.704 | 3.076 | 35.8 | 187.3 | --- | 5.242 | 1.87 | 0.252 | 73.6 | 53.9 | 4.7 | 0.207 |
| 4- 630 | 4-1770 | 0.400 | 180.9 | -3.2 | -0.81 | 1.304 | 75.7 | 0.703 | 3.084 | 34.8 | 188.0 | --- | 5.254 | 1.97 | 0.255 | 72.2 | 53.8 | 4.8 | 0.209 |
| 4- 630 | 4-1790 | 0.395 | 181.7 | -4.1 | -0.95 | 1.305 | 76.1 | 0.703 | 3.093 | 33.8 | 188.6 | --- | 5.267 | 2.10 | 0.258 | 70.9 | 53.8 | 4.9 | 0.211 |
| 4- 630 | 4-1810 | 0.389 | 182.6 | -5.0 | -1.10 | 1.305 | 76.6 | 0.703 | 3.102 | 32.7 | 189.3 | --- | 5.281 | 2.24 | 0.261 | 69.7 | 53.8 | 5.1 | 0.212 |
| 4- 630 | 4-1830 | 0.384 | 183.4 | -6.1 | -1.28 | 1.306 | 77.0 | 0.702 | 3.112 | 31.7 | 190.0 | --- | 5.297 | 2.41 | 0.264 | 68.5 | 54.0 | 5.2 | 0.214 |
| 4- 630 | 4-1850 | 0.379 | 184.3 | -7.4 | -1.50 | 1.306 | 77.5 | 0.702 | 3.122 | 30.6 | 190.6 | --- | 5.313 | 2.61 | 0.267 | 67.4 | 54.2 | 5.5 | 0.217 |
| 4- 630 | 4-1870 | 0.375 | 185.2 | -8.7 | -1.75 | 1.306 | 77.9 | 0.702 | 3.133 | 29.5 | 191.2 | --- | 5.331 | 2.84 | 0.270 | 66.4 | 54.4 | 5.7 | 0.219 |
| 4- 630 | 4-1890 | 0.370 | 186.0 | -10.3 | -2.05 | 1.307 | 78.4 | 0.701 | 3.144 | 28.4 | 191.8 | --- | 5.349 | 3.13 | 0.273 | 65.4 | 54.8 | 6.0 | 0.221 |
| 4- 630 | 4-1910 | 0.366 | 186.7 | -12.2 | -2.42 | 1.307 | 78.8 | 0.701 | 3.155 | 27.2 | 192.4 | --- | 5.367 | 3.49 | 0.276 | 64.4 | 55.2 | 6.4 | 0.223 |
| 4- 630 | 4-1930 | 0.362 | 187.3 | -14.4 | -2.89 | 1.308 | 79.3 | 0.701 | 3.166 | 26.1 | 193.0 | --- | 5.387 | 3.94 | 0.279 | 63.5 | 55.6 | 6.9 | 0.226 |
| 4- 630 | 4-1950 | 0.360 | 187.8 | -17.1 | -3.49 | 1.308 | 79.8 | 0.701 | 3.178 | 24.9 | 193.6 | --- | 5.407 | 4.54 | 0.282 | 62.7 | 56.1 | 7.6 | 0.229 |
| 4- 630 | 4-1970 | 0.358 | 187.8 | -20.5 | -4.32 | 1.309 | 80.3 | 0.701 | 3.191 | 23.7 | 194.1 | --- | 5.428 | 5.35 | 0.285 | 61.9 | 56.7 | 8.4 | 0.232 |
| 4- 630 | 4-1990 | 0.361 | 187.2 | -25.2 | -5.52 | 1.309 | 80.7 | 0.701 | 3.203 | 22.5 | 194.7 | --- | 5.450 | 6.54 | 0.288 | 61.1 | 57.4 | 9.6 | 0.235 |
| 4- 630 | 4-2010 | 0.370 | 185.2 | -31.6 | -7.40 | 1.310 | 81.2 | 0.702 | 3.216 | 21.3 | 195.2 | --- | 5.472 | 8.40 | 0.291 | 60.3 | 58.2 | 11.5 | 0.240 |
| 4- 630 | 4-2030 | 0.398 | 179.4 | -41.4 | -10.77 | 1.310 | 81.7 | 0.702 | 3.228 | 20.1 | 195.7 | --- | 5.494 | 11.76 | 0.294 | 59.6 | 59.2 | 14.7 | 0.247 |
| 4- 630 | 4-2050 | 0.495 | 160.2 | -55.4 | -18.50 | 1.311 | 82.2 | 0.702 | 3.242 | 18.9 | 196.2 | --- | 5.518 | 19.48 | 0.297 | 58.9 | 60.9 | 21.3 | 0.266 |
| 4- 630 | 4-2070 | 1.005 | 93.0 | -53.8 | -48.89 | 1.311 | 82.6 | 0.703 | 3.255 | 17.9 | 196.7 | --- | 5.542 | 49.85 | 0.300 | 58.3 | 69.2 | 34.1 | 0.375 |
| 4- 630 | 4-2090 | 0.885 | 250.7 | 73.5 | 42.05 | 1.311 | 83.5 | 0.703 | 3.268 | 15.8 | 197.2 | --- | 5.564 | -41.11 | 0.302 | 57.7 | 69.1 | -26.6 | 0.342 |
| 4- 630 | 4-2110 | 0.489 | 227.6 | 44.2 | 18.60 | 1.312 | 83.9 | 0.703 | 3.282 | 14.7 | 197.7 | --- | 5.589 | -17.67 | 0.305 | 57.1 | 64.2 | -14.1 | 0.269 |
| 4- 630 | 4-2130 | 0.396 | 223.3 | 28.9 | 11.94 | 1.312 | 84.4 | 0.704 | 3.295 | 13.5 | 198.1 | --- | 5.615 | -11.02 | 0.308 | 56.5 | 64.0 | -8.2 | 0.259 |
| 4- 630 | 4-2150 | 0.360 | 222.3 | 19.7 | 8.89 | 1.313 | 85.0 | 0.704 | 3.309 | 12.2 | 198.6 | --- | 5.640 | -7.99 | 0.311 | 56.0 | 64.6 | -5.2 | 0.257 |
| 4- 630 | 4-2170 | 0.342 | 222.5 | 13.6 | 7.15 | 1.313 | 85.5 | 0.705 | 3.323 | 10.8 | 199.0 | --- | 5.666 | -6.26 | 0.313 | 55.4 | 65.4 | -3.5 | 0.258 |
| 4- 630 | 4-2190 | 0.331 | 223.4 | 9.1 | 6.02 | 1.314 | 86.1 | 0.706 | 3.337 | 9.5 | 199.5 | --- | 5.692 | -5.15 | 0.316 | 54.9 | 66.4 | -2.3 | 0.260 |
| 4- 630 | 4-2210 | 0.324 | 224.7 | 5.7 | 5.23 | 1.314 | 86.6 | 0.707 | 3.351 | 8.1 | 199.9 | --- | 5.719 | -4.37 | 0.318 | 54.4 | 67.4 | -1.5 | 0.263 |
| 4- 630 | 4-2230 | 0.319 | 226.3 | 2.9 | 4.65 | 1.315 | 87.2 | 0.707 | 3.365 | 6.7 | 200.3 | --- | 5.746 | -3.80 | 0.321 | 53.9 | 68.4 | -0.9 | 0.265 |
| 4- 640 | 4-1000 | 0.683 | 178.6 | 2.6 | 0.95 | 1.441 | 63.9 | 1.044 | 18.120 | 51.0 | 131.8 | --- | --- | 1.06 | 0.653 | 158.7 | 81.0 | 3.4 | 0.649 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 640 | 4-1020 | 0.670 | 177.2 | 3.1 | 0.92 | 1.420 | 63.7 | 0.997 | 34.928 | 52.7 | 135.0 | --- | --- | 1.05 | 0.606 | 157.3 | 80.8 | 3.4 | 0.604 |
| 4- 640 | 4-1040 | 0.660 | 176.0 | 3.6 | 0.90 | 1.403 | 63.5 | 0.957 | 18.518 | 54.3 | 138.2 | --- | --- | 1.05 | 0.564 | 155.8 | 80.6 | 3.5 | 0.563 |
| 4- 640 | 4-1060 | 0.651 | 175.0 | 4.0 | 0.87 | 1.388 | 63.4 | 0.925 | 10.436 | 55.6 | 141.1 | --- | --- | 1.05 | 0.526 | 154.3 | 80.4 | 3.5 | 0.526 |
| 4- 640 | 4-1080 | 0.644 | 174.1 | 4.3 | 0.84 | 1.375 | 63.2 | 0.898 | 7.624 | 56.9 | 143.9 | --- | --- | 1.05 | 0.491 | 152.6 | 80.1 | 3.5 | 0.493 |
| 4- 640 | 4-1100 | 0.638 | 173.3 | 4.6 | 0.81 | 1.364 | 63.2 | 0.875 | 6.205 | 57.9 | 146.5 | --- | --- | 1.04 | 0.460 | 150.8 | 79.7 | 3.5 | 0.463 |
| 4- 640 | 4-1120 | 0.632 | 172.7 | 4.8 | 0.78 | 1.355 | 63.1 | 0.856 | 5.357 | 58.8 | 148.9 | --- | --- | 1.04 | 0.432 | 148.9 | 79.2 | 3.5 | 0.436 |
| 4- 640 | 4-1140 | 0.626 | 172.1 | 5.0 | 0.75 | 1.347 | 63.1 | 0.840 | 4.796 | 59.6 | 151.2 | --- | --- | 1.04 | 0.406 | 146.9 | 78.7 | 3.6 | 0.411 |
| 4- 640 | 4-1160 | 0.621 | 171.7 | 5.1 | 0.72 | 1.340 | 63.1 | 0.826 | 4.401 | 60.1 | 153.4 | --- | --- | 1.05 | 0.383 | 144.8 | 78.1 | 3.6 | 0.389 |
| 4- 640 | 4-1180 | 0.617 | 171.4 | 5.2 | 0.70 | 1.334 | 63.1 | 0.814 | 4.111 | 60.6 | 155.5 | --- | --- | 1.05 | 0.362 | 142.5 | 77.5 | 3.6 | 0.368 |
| 4- 640 | 4-1200 | 0.612 | 171.1 | 5.2 | 0.67 | 1.328 | 63.2 | 0.804 | 3.890 | 61.0 | 157.4 | --- | --- | 1.05 | 0.343 | 140.2 | 76.8 | 3.6 | 0.349 |
| 4- 640 | 4-1220 | 0.608 | 170.9 | 5.3 | 0.64 | 1.324 | 63.3 | 0.795 | 3.719 | 61.2 | 159.2 | --- | --- | 1.05 | 0.326 | 137.7 | 76.0 | 3.7 | 0.332 |
| 4- 640 | 4-1240 | 0.603 | 170.8 | 5.3 | 0.61 | 1.320 | 63.4 | 0.787 | 3.583 | 61.4 | 160.9 | --- | --- | 1.06 | 0.311 | 135.1 | 75.1 | 3.7 | 0.317 |
| 4- 640 | 4-1260 | 0.599 | 170.7 | 5.2 | 0.58 | 1.317 | 63.5 | 0.780 | 3.473 | 61.4 | 162.6 | --- | --- | 1.06 | 0.297 | 132.4 | 74.2 | 3.7 | 0.303 |
| 4- 640 | 4-1280 | 0.594 | 170.7 | 5.2 | 0.55 | 1.314 | 63.6 | 0.774 | 3.385 | 61.4 | 164.1 | --- | --- | 1.07 | 0.285 | 129.7 | 73.2 | 3.7 | 0.290 |
| 4- 640 | 4-1300 | 0.590 | 170.8 | 5.1 | 0.52 | 1.311 | 63.8 | 0.769 | 3.312 | 61.2 | 165.6 | --- | --- | 1.08 | 0.274 | 126.8 | 72.2 | 3.8 | 0.279 |
| 4- 640 | 4-1320 | 0.585 | 170.9 | 5.0 | 0.49 | 1.309 | 64.0 | 0.764 | 3.252 | 61.0 | 167.0 | --- | --- | 1.09 | 0.265 | 123.9 | 71.1 | 3.8 | 0.269 |
| 4- 640 | 4-1340 | 0.581 | 171.0 | 4.9 | 0.45 | 1.307 | 64.2 | 0.759 | 3.203 | 60.8 | 168.3 | --- | --- | 1.09 | 0.257 | 120.9 | 70.0 | 3.8 | 0.259 |
| 4- 640 | 4-1360 | 0.576 | 171.2 | 4.7 | 0.42 | 1.306 | 64.4 | 0.755 | 3.162 | 60.5 | 169.6 | --- | --- | 1.11 | 0.250 | 117.9 | 68.8 | 3.8 | 0.251 |
| 4- 640 | 4-1380 | 0.571 | 171.4 | 4.6 | 0.39 | 1.305 | 64.6 | 0.752 | 3.129 | 60.2 | 170.8 | --- | --- | 1.12 | 0.244 | 114.9 | 67.7 | 3.8 | 0.244 |
| 4- 640 | 4-1400 | 0.566 | 171.7 | 4.4 | 0.35 | 1.304 | 64.9 | 0.748 | 3.101 | 59.8 | 172.0 | --- | --- | 1.13 | 0.239 | 111.9 | 66.5 | 3.9 | 0.237 |
| 4- 640 | 4-1420 | 0.561 | 172.0 | 4.2 | 0.32 | 1.303 | 65.2 | 0.745 | 3.078 | 59.2 | 173.1 | --- | --- | 1.14 | 0.235 | 108.9 | 65.3 | 3.9 | 0.232 |
| 4- 640 | 4-1440 | 0.556 | 172.3 | 4.0 | 0.28 | 1.302 | 65.4 | 0.743 | 3.060 | 58.6 | 174.2 | --- | --- | 1.16 | 0.232 | 106.0 | 64.1 | 3.9 | 0.227 |
| 4- 640 | 4-1460 | 0.551 | 172.6 | 3.8 | 0.25 | 1.301 | 65.7 | 0.740 | 3.046 | 58.0 | 175.3 | --- | --- | 1.17 | 0.230 | 103.1 | 63.0 | 3.9 | 0.223 |
| 4- 640 | 4-1480 | 0.545 | 173.0 | 3.5 | 0.21 | 1.301 | 66.0 | 0.738 | 3.034 | 57.4 | 176.3 | --- | --- | 1.19 | 0.228 | 100.3 | 61.9 | 3.9 | 0.219 |
| 4- 640 | 4-1500 | 0.540 | 173.4 | 3.2 | 0.17 | 1.300 | 66.3 | 0.736 | 3.026 | 56.7 | 177.3 | --- | --- | 1.21 | 0.227 | 97.5 | 60.8 | 3.9 | 0.216 |
| 4- 640 | 4-1520 | 0.535 | 173.9 | 3.0 | 0.13 | 1.300 | 66.7 | 0.734 | 3.020 | 56.0 | 178.2 | --- | --- | 1.23 | 0.227 | 94.9 | 59.8 | 4.0 | 0.214 |
| 4- 640 | 4-1540 | 0.529 | 174.3 | 2.7 | 0.08 | 1.300 | 67.0 | 0.732 | 3.016 | 55.3 | 179.1 | --- | --- | 1.26 | 0.227 | 92.4 | 58.8 | 4.0 | 0.212 |
| 4- 640 | 4-1560 | 0.523 | 174.8 | 2.3 | 0.04 | 1.300 | 67.3 | 0.730 | 3.013 | 54.5 | 180.0 | --- | --- | 1.28 | 0.228 | 90.0 | 57.9 | 4.0 | 0.211 |
| 4- 640 | 4-1580 | 0.517 | 175.3 | 2.0 | -0.01 | 1.300 | 67.7 | 0.728 | 3.013 | 53.7 | 180.9 | --- | 5.207 | 1.31 | 0.229 | 87.7 | 57.1 | 4.0 | 0.210 |
| 4- 640 | 4-1600 | 0.512 | 175.9 | 1.6 | -0.06 | 1.300 | 68.0 | 0.727 | 3.014 | 52.9 | 181.7 | --- | 5.204 | 1.34 | 0.230 | 85.5 | 56.4 | 4.0 | 0.209 |
| 4- 640 | 4-1620 | 0.506 | 176.5 | 1.3 | -0.11 | 1.300 | 68.4 | 0.725 | 3.017 | 52.2 | 182.5 | --- | 5.204 | 1.37 | 0.232 | 83.4 | 55.7 | 4.0 | 0.209 |
| 4- 640 | 4-1640 | 0.500 | 177.1 | 0.9 | -0.16 | 1.300 | 68.8 | 0.724 | 3.020 | 51.2 | 183.3 | --- | 5.206 | 1.41 | 0.234 | 81.5 | 55.1 | 4.1 | 0.209 |
| 4- 640 | 4-1660 | 0.494 | 177.7 | 0.4 | -0.22 | 1.300 | 69.2 | 0.722 | 3.025 | 50.3 | 184.1 | --- | 5.210 | 1.45 | 0.236 | 79.6 | 54.6 | 4.1 | 0.209 |
| 4- 640 | 4-1680 | 0.488 | 178.3 | -0.0 | -0.28 | 1.301 | 69.6 | 0.721 | 3.031 | 49.3 | 184.8 | --- | 5.216 | 1.49 | 0.239 | 77.9 | 54.2 | 4.1 | 0.210 |
| 4- 640 | 4-1700 | 0.481 | 179.0 | -0.5 | -0.34 | 1.301 | 70.0 | 0.720 | 3.037 | 48.4 | 185.5 | --- | 5.224 | 1.54 | 0.241 | 76.2 | 53.9 | 4.2 | 0.210 |
| 4- 640 | 4-1720 | 0.475 | 179.7 | -1.0 | -0.41 | 1.301 | 70.4 | 0.719 | 3.044 | 47.4 | 186.3 | --- | 5.233 | 1.59 | 0.244 | 74.6 | 53.6 | 4.2 | 0.211 |
| 4- 640 | 4-1740 | 0.469 | 180.4 | -1.5 | -0.48 | 1.302 | 70.8 | 0.718 | 3.052 | 46.4 | 187.0 | --- | 5.244 | 1.64 | 0.247 | 73.2 | 53.4 | 4.3 | 0.213 |
| 4- 640 | 4-1760 | 0.463 | 181.1 | -2.1 | -0.56 | 1.302 | 71.2 | 0.717 | 3.061 | 45.4 | 187.6 | --- | 5.256 | 1.70 | 0.250 | 71.8 | 53.4 | 4.4 | 0.214 |
| 4- 640 | 4-1780 | 0.456 | 181.9 | -2.7 | -0.65 | 1.302 | 71.7 | 0.716 | 3.070 | 44.4 | 188.3 | --- | 5.269 | 1.77 | 0.253 | 70.4 | 53.3 | 4.4 | 0.216 |
| 4- 640 | 4-1800 | 0.450 | 182.6 | -3.4 | -0.74 | 1.303 | 72.1 | 0.715 | 3.080 | 43.3 | 189.0 | --- | 5.283 | 1.85 | 0.256 | 69.2 | 53.4 | 4.5 | 0.217 |
| 4- 640 | 4-1820 | 0.444 | 183.4 | -4.1 | -0.85 | 1.303 | 72.6 | 0.715 | 3.090 | 42.2 | 189.6 | --- | 5.298 | 1.94 | 0.259 | 68.0 | 53.5 | 4.6 | 0.219 |
| 4- 640 | 4-1840 | 0.437 | 184.3 | -4.8 | -0.96 | 1.304 | 73.0 | 0.714 | 3.101 | 41.2 | 190.2 | --- | 5.314 | 2.03 | 0.262 | 66.9 | 53.8 | 4.7 | 0.221 |
| 4- 640 | 4-1860 | 0.431 | 185.1 | -5.6 | -1.08 | 1.304 | 73.5 | 0.713 | 3.112 | 40.0 | 190.8 | --- | 5.331 | 2.14 | 0.265 | 65.9 | 54.0 | 4.8 | 0.223 |
| 4- 640 | 4-1880 | 0.425 | 186.0 | -6.5 | -1.22 | 1.304 | 73.9 | 0.713 | 3.123 | 38.9 | 191.4 | --- | 5.349 | 2.26 | 0.269 | 64.9 | 54.4 | 4.9 | 0.225 |
| 4- 640 | 4-1900 | 0.419 | 186.8 | -7.5 | -1.38 | 1.305 | 74.4 | 0.712 | 3.135 | 37.8 | 192.0 | --- | 5.367 | 2.40 | 0.272 | 64.0 | 54.8 | 5.1 | 0.227 |
| 4- 640 | 4-1920 | 0.413 | 187.7 | -8.5 | -1.56 | 1.305 | 74.9 | 0.711 | 3.147 | 36.6 | 192.6 | --- | 5.387 | 2.57 | 0.275 | 63.1 | 55.2 | 5.3 | 0.229 |
| 4- 640 | 4-1940 | 0.407 | 188.6 | -9.7 | -1.77 | 1.306 | 75.4 | 0.711 | 3.160 | 35.4 | 193.2 | --- | 5.406 | 2.75 | 0.278 | 62.2 | 55.8 | 5.5 | 0.231 |
| 4- 640 | 4-1960 | 0.401 | 189.4 | -11.0 | -2.00 | 1.306 | 75.9 | 0.711 | 3.172 | 34.3 | 193.7 | --- | 5.427 | 2.98 | 0.281 | 61.4 | 56.3 | 5.7 | 0.234 |
| 4- 640 | 4-1980 | 0.396 | 190.3 | -12.4 | -2.29 | 1.307 | 76.4 | 0.710 | 3.185 | 33.0 | 194.3 | --- | 5.448 | 3.24 | 0.284 | 60.7 | 57.0 | 6.0 | 0.236 |
| 4- 640 | 4-2000 | 0.390 | 191.1 | -14.1 | -2.62 | 1.307 | 76.9 | 0.710 | 3.198 | 31.8 | 194.8 | --- | 5.469 | 3.56 | 0.288 | 60.0 | 57.6 | 6.3 | 0.238 |
| 4- 640 | 4-2020 | 0.386 | 191.8 | -16.0 | -3.04 | 1.308 | 77.4 | 0.710 | 3.212 | 30.6 | 195.3 | --- | 5.491 | 3.96 | 0.291 | 59.3 | 58.4 | 6.7 | 0.241 |
| 4- 640 | 4-2040 | 0.382 | 192.4 | -18.4 | -3.56 | 1.308 | 77.9 | 0.710 | 3.225 | 29.3 | 195.8 | --- | 5.514 | 4.47 | 0.294 | 58.6 | 59.1 | 7.2 | 0.244 |
| 4- 640 | 4-2060 | 0.379 | 192.8 | -21.2 | -4.23 | 1.309 | 78.4 | 0.709 | 3.239 | 28.1 | 196.3 | --- | 5.537 | 5.12 | 0.297 | 58.0 | 60.0 | 7.9 | 0.246 |
| 4- 640 | 4-2080 | 0.378 | 192.7 | -24.8 | -5.14 | 1.309 | 78.9 | 0.709 | 3.253 | 26.8 | 196.8 | --- | 5.560 | 6.02 | 0.300 | 57.4 | 60.9 | 8.8 | 0.250 |
| 4- 640 | 4-2100 | 0.380 | 192.0 | -29.5 | -6.44 | 1.310 | 79.4 | 0.709 | 3.267 | 25.5 | 197.3 | --- | 5.584 | 7.30 | 0.303 | 56.8 | 61.8 | 10.0 | 0.253 |
| 4- 640 | 4-2120 | 0.391 | 189.6 | -35.9 | -8.44 | 1.310 | 80.0 | 0.709 | 3.281 | 24.2 | 197.8 | --- | 5.609 | 9.28 | 0.305 | 56.3 | 62.9 | 11.9 | 0.258 |
| 4- 640 | 4-2140 | 0.421 | 183.4 | -45.2 | -11.91 | 1.311 | 80.5 | 0.710 | 3.295 | 22.9 | 198.2 | --- | 5.634 | 12.74 | 0.308 | 55.8 | 64.2 | 15.0 | 0.265 |
| 4- 640 | 4-2160 | 0.516 | 163.7 | -57.5 | -19.40 | 1.311 | 81.0 | 0.710 | 3.310 | 21.7 | 198.7 | --- | 5.659 | 20.21 | 0.311 | 55.3 | 66.3 | 21.0 | 0.283 |
| 4- 640 | 4-2180 | 0.924 | 104.2 | -56.2 | -44.07 | 1.312 | 81.5 | 0.710 | 3.324 | 20.6 | 199.1 | --- | 5.685 | 44.86 | 0.314 | 54.8 | 73.8 | 32.4 | 0.368 |
| 4- 640 | 4-2200 | 1.115 | 261.6 | 82.8 | 55.33 | 1.312 | 82.4 | 0.710 | 3.339 | 18.2 | 199.5 | --- | 5.708 | -54.55 | 0.316 | 54.4 | 78.7 | -27.9 | 0.408 |
| 4- 640 | 4-2220 | 0.585 | 233.5 | 49.5 | 23.12 | 1.313 | 82.9 | 0.710 | 3.353 | 17.2 | 199.9 | --- | 5.735 | -22.36 | 0.319 | 53.9 | 70.8 | -16.5 | 0.296 |
| 4- 640 | 4-2240 | 0.432 | 229.6 | 32.2 | 14.29 | 1.313 | 83.4 | 0.711 | 3.368 | 15.9 | 200.4 | --- | 5.762 | -13.55 | 0.322 | 53.4 | 70.2 | -9.7 | 0.279 |
| 4- 650 | 4-1010 | 0.783 | 178.2 | 2.4 | 0.98 | 1.428 | 57.2 | 1.015 | 47.225 | 65.0 | 136.6 | --- | --- | 1.23 | 0.626 | 159.4 | 79.7 | 3.4 | 0.633 |
| 4- 650 | 4-1030 | 0.769 | 177.2 | 2.8 | 0.94 | 1.408 | 57.1 | 0.976 | 28.955 | 66.6 | 139.7 | --- | --- | 1.22 | 0.581 | 158.0 | 79.5 | 3.5 | 0.589 |
| 4- 650 | 4-1050 | 0.758 | 176.3 | 3.1 | 0.91 | 1.391 | 57.1 | 0.944 | 12.330 | 68.0 | 142.6 | --- | --- | 1.21 | 0.539 | 156.5 | 79.2 | 3.5 | 0.550 |
| 4- 650 | 4-1070 | 0.749 | 175.6 | 3.4 | 0.88 | 1.377 | 57.1 | 0.918 | 8.320 | 69.2 | 145.4 | --- | --- | 1.20 | 0.502 | 154.8 | 78.8 | 3.5 | 0.515 |
| 4- 650 | 4-1090 | 0.740 | 175.0 | 3.6 | 0.84 | 1.365 | 57.1 | 0.896 | 6.529 | 70.2 | 148.0 | --- | --- | 1.19 | 0.468 | 153.1 | 78.4 | 3.5 | 0.483 |
| 4- 650 | 4-1110 | 0.732 | 174.5 | 3.8 | 0.81 | 1.355 | 57.1 | 0.877 | 5.521 | 71.1 | 150.4 | --- | --- | 1.19 | 0.438 | 151.3 | 77.9 | 3.5 | 0.454 |
| 4- 650 | 4-1130 | 0.725 | 174.1 | 3.9 | 0.78 | 1.346 | 57.2 | 0.861 | 4.881 | 71.7 | 152.6 | --- | --- | 1.18 | 0.411 | 149.3 | 77.4 | 3.6 | 0.428 |
| 4- 650 | 4-1150 | 0.719 | 173.7 | 4.0 | 0.74 | 1.339 | 57.3 | 0.848 | 4.442 | 72.3 | 154.7 | --- | --- | 1.17 | 0.386 | 147.2 | 76.7 | 3.6 | 0.404 |
| 4- 650 | 4-1170 | 0.712 | 173.5 | 4.0 | 0.71 | 1.332 | 57.4 | 0.837 | 4.125 | 72.7 | 156.7 | --- | --- | 1.17 | 0.363 | 145.0 | 76.0 | 3.6 | 0.383 |
| 4- 650 | 4-1190 | 0.706 | 173.3 | 4.1 | 0.68 | 1.327 | 57.5 | 0.827 | 3.888 | 73.0 | 158.5 | --- | --- | 1.17 | 0.343 | 142.6 | 75.3 | 3.6 | 0.363 |
| 4- 650 | 4-1210 | 0.700 | 173.2 | 4.1 | 0.65 | 1.322 | 57.7 | 0.818 | 3.705 | 73.1 | 160.3 | --- | --- | 1.17 | 0.324 | 140.2 | 74.5 | 3.7 | 0.346 |
| 4- 650 | 4-1230 | 0.695 | 173.1 | 4.0 | 0.62 | 1.318 | 57.9 | 0.810 | 3.561 | 73.2 | 161.9 | --- | --- | 1.16 | 0.308 | 137.6 | 73.6 | 3.7 | 0.329 |
| 4- 650 | 4-1250 | 0.689 | 173.1 | 4.0 | 0.58 | 1.314 | 58.0 | 0.803 | 3.447 | 73.2 | 163.5 | --- | --- | 1.16 | 0.293 | 134.8 | 72.7 | 3.7 | 0.315 |
| 4- 650 | 4-1270 | 0.684 | 173.2 | 3.9 | 0.55 | 1.311 | 58.3 | 0.797 | 3.355 | 73.0 | 165.0 | --- | --- | 1.17 | 0.280 | 132.0 | 71.7 | 3.7 | 0.302 |
| 4- 650 | 4-1290 | 0.678 | 173.3 | 3.8 | 0.52 | 1.308 | 58.5 | 0.792 | 3.280 | 72.8 | 166.4 | --- | --- | 1.17 | 0.268 | 129.0 | 70.6 | 3.7 | 0.290 |
| 4- 650 | 4-1310 | 0.672 | 173.4 | 3.7 | 0.49 | 1.306 | 58.7 | 0.787 | 3.218 | 72.6 | 167.7 | --- | --- | 1.17 | 0.258 | 126.0 | 69.6 | 3.7 | 0.279 |
| 4- 650 | 4-1330 | 0.667 | 173.6 | 3.6 | 0.45 | 1.304 | 59.0 | 0.782 | 3.168 | 72.2 | 169.0 | --- | --- | 1.17 | 0.249 | 122.9 | 68.5 | 3.8 | 0.270 |
| 4- 650 | 4-1350 | 0.661 | 173.7 | 3.5 | 0.42 | 1.303 | 59.2 | 0.778 | 3.127 | 71.8 | 170.2 | --- | --- | 1.18 | 0.242 | 119.7 | 67.3 | 3.8 | 0.261 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 650 | 4-1370 | 0.655 | 174.0 | 3.3 | 0.39 | 1.301 | 59.5 | 0.775 | 3.093 | 71.4 | 171.3 | --- | --- | 1.18 | 0.235 | 116.5 | 66.2 | 3.8 | 0.254 |
| 4- 650 | 4-1390 | 0.650 | 174.2 | 3.2 | 0.35 | 1.300 | 59.8 | 0.771 | 3.065 | 70.9 | 172.4 | --- | --- | 1.19 | 0.230 | 113.3 | 65.0 | 3.8 | 0.247 |
| 4- 650 | 4-1410 | 0.644 | 174.5 | 3.0 | 0.32 | 1.299 | 60.1 | 0.768 | 3.042 | 70.3 | 173.5 | --- | --- | 1.20 | 0.226 | 110.2 | 63.9 | 3.8 | 0.241 |
| 4- 650 | 4-1430 | 0.638 | 174.8 | 2.8 | 0.28 | 1.299 | 60.4 | 0.765 | 3.024 | 69.7 | 174.5 | --- | --- | 1.20 | 0.223 | 107.0 | 62.8 | 3.8 | 0.236 |
| 4- 650 | 4-1450 | 0.632 | 175.2 | 2.6 | 0.25 | 1.298 | 60.8 | 0.762 | 3.010 | 69.1 | 175.5 | --- | --- | 1.21 | 0.220 | 103.9 | 61.7 | 3.8 | 0.232 |
| 4- 650 | 4-1470 | 0.626 | 175.5 | 2.4 | 0.21 | 1.297 | 61.1 | 0.760 | 2.999 | 68.4 | 176.5 | --- | --- | 1.22 | 0.219 | 100.9 | 60.6 | 3.8 | 0.228 |
| 4- 650 | 4-1490 | 0.620 | 175.9 | 2.1 | 0.17 | 1.297 | 61.4 | 0.757 | 2.991 | 67.7 | 177.4 | --- | --- | 1.24 | 0.218 | 98.0 | 59.6 | 3.8 | 0.225 |
| 4- 650 | 4-1510 | 0.613 | 176.3 | 1.9 | 0.14 | 1.297 | 61.8 | 0.755 | 2.985 | 67.0 | 178.3 | --- | --- | 1.25 | 0.218 | 95.2 | 58.6 | 3.8 | 0.223 |
| 4- 650 | 4-1530 | 0.607 | 176.8 | 1.6 | 0.10 | 1.297 | 62.2 | 0.753 | 2.982 | 66.2 | 179.2 | --- | --- | 1.26 | 0.218 | 92.6 | 57.7 | 3.8 | 0.221 |
| 4- 650 | 4-1550 | 0.601 | 177.2 | 1.3 | 0.06 | 1.297 | 62.5 | 0.750 | 2.980 | 65.4 | 180.0 | --- | --- | 1.28 | 0.219 | 90.0 | 56.9 | 3.8 | 0.219 |
| 4- 650 | 4-1570 | 0.594 | 177.7 | 1.0 | 0.02 | 1.297 | 62.9 | 0.749 | 2.980 | 64.6 | 180.8 | --- | 5.211 | 1.30 | 0.220 | 87.6 | 56.1 | 3.9 | 0.218 |
| 4- 650 | 4-1590 | 0.588 | 178.2 | 0.7 | -0.03 | 1.297 | 63.3 | 0.747 | 2.982 | 63.7 | 181.6 | --- | 5.208 | 1.32 | 0.222 | 85.3 | 55.4 | 3.9 | 0.217 |
| 4- 650 | 4-1610 | 0.581 | 178.7 | 0.4 | -0.07 | 1.297 | 63.7 | 0.745 | 2.985 | 62.8 | 182.4 | --- | 5.208 | 1.34 | 0.224 | 83.1 | 54.8 | 3.9 | 0.217 |
| 4- 650 | 4-1630 | 0.574 | 179.2 | 0.1 | -0.12 | 1.297 | 64.1 | 0.743 | 2.989 | 61.9 | 183.1 | --- | 5.210 | 1.36 | 0.226 | 81.0 | 54.3 | 3.9 | 0.217 |
| 4- 650 | 4-1650 | 0.567 | 179.8 | -0.3 | -0.16 | 1.297 | 64.5 | 0.741 | 2.994 | 61.0 | 183.9 | --- | 5.214 | 1.39 | 0.228 | 79.1 | 53.8 | 3.9 | 0.217 |
| 4- 650 | 4-1670 | 0.561 | 180.3 | -0.6 | -0.21 | 1.298 | 64.9 | 0.740 | 3.000 | 60.0 | 184.6 | --- | 5.220 | 1.41 | 0.231 | 77.3 | 53.4 | 3.9 | 0.217 |
| 4- 650 | 4-1690 | 0.554 | 180.9 | -1.0 | -0.27 | 1.298 | 65.4 | 0.738 | 3.008 | 59.0 | 185.3 | --- | 5.228 | 1.44 | 0.234 | 75.5 | 53.2 | 4.0 | 0.218 |
| 4- 650 | 4-1710 | 0.547 | 181.5 | -1.4 | -0.32 | 1.298 | 65.8 | 0.737 | 3.015 | 58.0 | 186.0 | --- | 5.237 | 1.48 | 0.237 | 73.9 | 52.9 | 4.0 | 0.219 |
| 4- 650 | 4-1730 | 0.540 | 182.1 | -1.8 | -0.38 | 1.299 | 66.2 | 0.735 | 3.024 | 57.0 | 186.7 | --- | 5.248 | 1.51 | 0.240 | 72.4 | 52.8 | 4.0 | 0.220 |
| 4- 650 | 4-1750 | 0.533 | 182.8 | -2.3 | -0.44 | 1.299 | 66.7 | 0.734 | 3.033 | 56.0 | 187.3 | --- | 5.260 | 1.55 | 0.243 | 71.0 | 52.8 | 4.1 | 0.221 |
| 4- 650 | 4-1770 | 0.526 | 183.5 | -2.7 | -0.50 | 1.299 | 67.1 | 0.733 | 3.043 | 54.9 | 188.0 | --- | 5.273 | 1.59 | 0.246 | 69.7 | 52.8 | 4.1 | 0.222 |
| 4- 650 | 4-1790 | 0.519 | 184.1 | -3.2 | -0.56 | 1.300 | 67.6 | 0.732 | 3.053 | 53.9 | 188.6 | --- | 5.287 | 1.64 | 0.250 | 68.4 | 52.9 | 4.1 | 0.224 |
| 4- 650 | 4-1810 | 0.512 | 184.8 | -3.7 | -0.64 | 1.300 | 68.0 | 0.730 | 3.064 | 52.8 | 189.2 | --- | 5.302 | 1.69 | 0.253 | 67.2 | 53.0 | 4.2 | 0.225 |
| 4- 650 | 4-1830 | 0.504 | 185.6 | -4.3 | -0.71 | 1.301 | 68.5 | 0.729 | 3.075 | 51.7 | 189.8 | --- | 5.318 | 1.75 | 0.257 | 66.1 | 53.3 | 4.3 | 0.227 |
| 4- 650 | 4-1850 | 0.497 | 186.3 | -4.8 | -0.79 | 1.301 | 69.0 | 0.728 | 3.087 | 50.5 | 190.4 | --- | 5.335 | 1.81 | 0.260 | 65.1 | 53.6 | 4.3 | 0.229 |
| 4- 650 | 4-1870 | 0.490 | 187.1 | -5.4 | -0.88 | 1.302 | 69.5 | 0.727 | 3.099 | 49.4 | 191.0 | --- | 5.352 | 1.88 | 0.263 | 64.1 | 53.9 | 4.4 | 0.231 |
| 4- 650 | 4-1890 | 0.483 | 187.9 | -6.1 | -0.98 | 1.302 | 69.9 | 0.726 | 3.111 | 48.3 | 191.6 | --- | 5.371 | 1.95 | 0.267 | 63.2 | 54.3 | 4.5 | 0.232 |
| 4- 650 | 4-1910 | 0.476 | 188.7 | -6.8 | -1.08 | 1.303 | 70.4 | 0.725 | 3.124 | 47.1 | 192.2 | --- | 5.390 | 2.03 | 0.270 | 62.3 | 54.8 | 4.6 | 0.234 |
| 4- 650 | 4-1930 | 0.469 | 189.5 | -7.5 | -1.19 | 1.303 | 70.9 | 0.724 | 3.137 | 45.9 | 192.7 | --- | 5.409 | 2.13 | 0.274 | 61.5 | 55.3 | 4.7 | 0.236 |
| 4- 650 | 4-1950 | 0.462 | 190.3 | -8.3 | -1.32 | 1.304 | 71.4 | 0.723 | 3.150 | 44.7 | 193.3 | --- | 5.429 | 2.23 | 0.277 | 60.7 | 55.9 | 4.8 | 0.238 |
| 4- 650 | 4-1970 | 0.455 | 191.2 | -9.1 | -1.45 | 1.304 | 71.9 | 0.723 | 3.164 | 43.5 | 193.8 | --- | 5.450 | 2.35 | 0.280 | 60.0 | 56.6 | 4.9 | 0.241 |
| 4- 650 | 4-1990 | 0.448 | 192.1 | -10.0 | -1.61 | 1.305 | 72.4 | 0.722 | 3.177 | 42.3 | 194.3 | --- | 5.471 | 2.48 | 0.283 | 59.3 | 57.2 | 5.1 | 0.243 |
| 4- 650 | 4-2010 | 0.441 | 192.9 | -11.0 | -1.78 | 1.305 | 72.9 | 0.721 | 3.191 | 41.0 | 194.8 | --- | 5.493 | 2.64 | 0.287 | 58.6 | 58.0 | 5.2 | 0.245 |
| 4- 650 | 4-2030 | 0.434 | 193.8 | -12.1 | -1.97 | 1.306 | 73.5 | 0.721 | 3.205 | 39.8 | 195.4 | --- | 5.515 | 2.82 | 0.290 | 58.0 | 58.7 | 5.4 | 0.247 |
| 4- 650 | 4-2050 | 0.427 | 194.7 | -13.3 | -2.20 | 1.306 | 74.0 | 0.720 | 3.219 | 38.5 | 195.9 | --- | 5.537 | 3.02 | 0.293 | 57.4 | 59.5 | 5.6 | 0.249 |
| 4- 650 | 4-2070 | 0.421 | 195.6 | -14.6 | -2.46 | 1.307 | 74.5 | 0.720 | 3.234 | 37.3 | 196.3 | --- | 5.560 | 3.26 | 0.296 | 56.8 | 60.4 | 5.9 | 0.252 |
| 4- 650 | 4-2090 | 0.415 | 196.4 | -16.1 | -2.77 | 1.307 | 75.1 | 0.719 | 3.248 | 36.0 | 196.8 | --- | 5.584 | 3.55 | 0.299 | 56.3 | 61.3 | 6.2 | 0.254 |
| 4- 650 | 4-2110 | 0.409 | 197.2 | -17.9 | -3.13 | 1.308 | 75.6 | 0.719 | 3.263 | 34.7 | 197.3 | --- | 5.608 | 3.90 | 0.302 | 55.8 | 62.2 | 6.5 | 0.256 |
| 4- 650 | 4-2130 | 0.404 | 198.0 | -19.9 | -3.58 | 1.308 | 76.1 | 0.718 | 3.278 | 33.4 | 197.8 | --- | 5.632 | 4.33 | 0.305 | 55.3 | 63.2 | 6.9 | 0.259 |
| 4- 650 | 4-2150 | 0.399 | 198.5 | -22.3 | -4.15 | 1.309 | 76.7 | 0.718 | 3.292 | 32.0 | 198.2 | --- | 5.656 | 4.88 | 0.308 | 54.8 | 64.2 | 7.5 | 0.261 |
| 4- 650 | 4-2170 | 0.396 | 198.9 | -25.2 | -4.88 | 1.309 | 77.2 | 0.718 | 3.307 | 30.7 | 198.7 | --- | 5.681 | 5.59 | 0.311 | 54.3 | 65.2 | 8.1 | 0.264 |
| 4- 650 | 4-2190 | 0.395 | 198.8 | -28.8 | -5.86 | 1.310 | 77.8 | 0.718 | 3.322 | 29.4 | 199.1 | --- | 5.706 | 6.55 | 0.314 | 53.9 | 66.4 | 9.0 | 0.267 |
| 4- 650 | 4-2210 | 0.399 | 197.9 | -33.6 | -7.24 | 1.310 | 78.3 | 0.717 | 3.337 | 28.0 | 199.5 | --- | 5.732 | 7.92 | 0.317 | 53.5 | 67.5 | 10.3 | 0.271 |
| 4- 650 | 4-2230 | 0.410 | 195.3 | -40.1 | -9.36 | 1.311 | 78.9 | 0.717 | 3.353 | 26.6 | 199.9 | --- | 5.758 | 10.02 | 0.319 | 53.1 | 68.8 | 12.1 | 0.275 |
| 4- 650 | 4-2250 | 0.443 | 188.5 | -49.1 | -13.00 | 1.311 | 79.5 | 0.717 | 3.368 | 25.3 | 200.3 | --- | 5.784 | 13.63 | 0.322 | 52.7 | 70.4 | 15.2 | 0.283 |
| 4- 660 | 4-1020 | 0.891 | 179.2 | 1.7 | 1.03 | 1.414 | 50.3 | 0.993 | 87.102 | 79.7 | 142.0 | --- | --- | 1.41 | 0.600 | 160.4 | 78.1 | 3.5 | 0.621 |
| 4- 660 | 4-1040 | 0.876 | 178.5 | 2.0 | 0.99 | 1.396 | 50.4 | 0.963 | 15.676 | 81.0 | 144.9 | --- | --- | 1.39 | 0.555 | 159.0 | 77.8 | 3.5 | 0.578 |
| 4- 660 | 4-1060 | 0.863 | 177.9 | 2.2 | 0.95 | 1.380 | 50.5 | 0.938 | 9.311 | 82.1 | 147.5 | --- | --- | 1.37 | 0.515 | 157.5 | 77.4 | 3.5 | 0.540 |
| 4- 660 | 4-1080 | 0.852 | 177.4 | 2.4 | 0.91 | 1.367 | 50.7 | 0.917 | 6.947 | 83.0 | 150.0 | --- | --- | 1.36 | 0.478 | 155.8 | 76.9 | 3.5 | 0.506 |
| 4- 660 | 4-1100 | 0.842 | 177.0 | 2.5 | 0.87 | 1.355 | 50.8 | 0.900 | 5.723 | 83.8 | 152.3 | --- | --- | 1.34 | 0.445 | 154.1 | 76.4 | 3.5 | 0.475 |
| 4- 660 | 4-1120 | 0.832 | 176.7 | 2.6 | 0.83 | 1.346 | 51.0 | 0.885 | 4.982 | 84.3 | 154.4 | --- | --- | 1.33 | 0.415 | 152.1 | 75.8 | 3.5 | 0.448 |
| 4- 660 | 4-1140 | 0.824 | 176.5 | 2.6 | 0.79 | 1.337 | 51.2 | 0.872 | 4.488 | 84.8 | 156.4 | --- | --- | 1.32 | 0.388 | 150.1 | 75.1 | 3.6 | 0.423 |
| 4- 660 | 4-1160 | 0.815 | 176.3 | 2.6 | 0.76 | 1.330 | 51.4 | 0.861 | 4.140 | 85.1 | 158.3 | --- | --- | 1.30 | 0.364 | 147.9 | 74.4 | 3.6 | 0.400 |
| 4- 660 | 4-1180 | 0.808 | 176.2 | 2.6 | 0.72 | 1.324 | 51.6 | 0.852 | 3.883 | 85.2 | 160.0 | --- | --- | 1.29 | 0.342 | 145.6 | 73.6 | 3.6 | 0.380 |
| 4- 660 | 4-1200 | 0.800 | 176.2 | 2.6 | 0.68 | 1.319 | 51.8 | 0.844 | 3.687 | 85.3 | 161.7 | --- | --- | 1.29 | 0.322 | 143.1 | 72.8 | 3.6 | 0.361 |
| 4- 660 | 4-1220 | 0.793 | 176.2 | 2.8 | 0.65 | 1.315 | 52.1 | 0.836 | 3.536 | 85.2 | 163.2 | --- | --- | 1.28 | 0.304 | 140.5 | 71.9 | 3.6 | 0.344 |
| 4- 660 | 4-1240 | 0.786 | 176.2 | 2.5 | 0.61 | 1.311 | 52.3 | 0.830 | 3.416 | 85.1 | 164.6 | --- | --- | 1.27 | 0.288 | 137.7 | 70.9 | 3.6 | 0.329 |
| 4- 660 | 4-1260 | 0.779 | 176.3 | 2.4 | 0.57 | 1.308 | 52.6 | 0.824 | 3.320 | 84.9 | 166.0 | --- | --- | 1.26 | 0.274 | 134.8 | 70.0 | 3.7 | 0.316 |
| 4- 660 | 4-1280 | 0.772 | 176.5 | 2.3 | 0.54 | 1.305 | 52.9 | 0.818 | 3.242 | 84.6 | 167.3 | --- | --- | 1.26 | 0.261 | 131.7 | 68.9 | 3.7 | 0.303 |
| 4- 660 | 4-1300 | 0.765 | 176.6 | 2.2 | 0.50 | 1.303 | 53.2 | 0.813 | 3.179 | 84.2 | 168.5 | --- | --- | 1.26 | 0.250 | 128.6 | 67.8 | 3.7 | 0.292 |
| 4- 660 | 4-1320 | 0.759 | 176.8 | 2.1 | 0.47 | 1.301 | 53.5 | 0.809 | 3.128 | 83.8 | 169.7 | --- | --- | 1.25 | 0.240 | 125.3 | 66.8 | 3.7 | 0.282 |
| 4- 660 | 4-1340 | 0.752 | 177.0 | 1.9 | 0.43 | 1.299 | 53.8 | 0.805 | 3.086 | 83.3 | 170.8 | --- | --- | 1.25 | 0.232 | 121.9 | 65.6 | 3.7 | 0.274 |
| 4- 660 | 4-1360 | 0.745 | 177.3 | 1.8 | 0.40 | 1.298 | 54.2 | 0.801 | 3.051 | 82.8 | 171.9 | --- | --- | 1.25 | 0.225 | 118.5 | 64.5 | 3.7 | 0.266 |
| 4- 660 | 4-1380 | 0.739 | 177.5 | 1.6 | 0.36 | 1.296 | 54.5 | 0.797 | 3.024 | 82.2 | 172.9 | --- | --- | 1.25 | 0.220 | 115.1 | 63.4 | 3.7 | 0.259 |
| 4- 660 | 4-1400 | 0.732 | 177.8 | 1.5 | 0.33 | 1.296 | 54.9 | 0.794 | 3.001 | 81.6 | 173.9 | --- | --- | 1.25 | 0.215 | 111.7 | 62.3 | 3.7 | 0.253 |
| 4- 660 | 4-1420 | 0.725 | 178.1 | 1.3 | 0.29 | 1.295 | 55.2 | 0.791 | 2.983 | 80.9 | 174.9 | --- | --- | 1.25 | 0.212 | 108.3 | 61.2 | 3.7 | 0.248 |
| 4- 660 | 4-1440 | 0.718 | 178.5 | 1.1 | 0.26 | 1.294 | 55.6 | 0.788 | 2.969 | 80.2 | 175.8 | --- | --- | 1.26 | 0.209 | 105.0 | 60.2 | 3.7 | 0.243 |
| 4- 660 | 4-1460 | 0.711 | 178.8 | 0.9 | 0.22 | 1.294 | 56.0 | 0.785 | 2.959 | 79.5 | 176.7 | --- | --- | 1.26 | 0.207 | 101.7 | 59.2 | 3.7 | 0.239 |
| 4- 660 | 4-1480 | 0.704 | 179.2 | 0.7 | 0.18 | 1.293 | 56.4 | 0.782 | 2.951 | 78.7 | 177.6 | --- | --- | 1.26 | 0.207 | 98.6 | 58.2 | 3.7 | 0.236 |
| 4- 660 | 4-1500 | 0.697 | 179.6 | 0.4 | 0.15 | 1.293 | 56.8 | 0.779 | 2.946 | 77.9 | 178.4 | --- | --- | 1.27 | 0.206 | 95.6 | 57.3 | 3.7 | 0.234 |
| 4- 660 | 4-1520 | 0.690 | 180.0 | 0.2 | 0.11 | 1.293 | 57.2 | 0.777 | 2.943 | 77.1 | 179.2 | --- | --- | 1.28 | 0.207 | 92.7 | 56.5 | 3.7 | 0.231 |
| 4- 660 | 4-1540 | 0.683 | 180.4 | -0.1 | 0.07 | 1.293 | 57.6 | 0.774 | 2.942 | 76.2 | 180.0 | --- | 5.220 | 1.29 | 0.208 | 89.9 | 55.7 | 3.7 | 0.230 |
| 4- 660 | 4-1560 | 0.676 | 180.9 | -0.3 | 0.03 | 1.293 | 58.0 | 0.772 | 2.943 | 75.4 | 180.8 | --- | 5.215 | 1.30 | 0.209 | 87.3 | 55.0 | 3.7 | 0.228 |
| 4- 660 | 4-1580 | 0.668 | 181.3 | -0.6 | -0.01 | 1.293 | 58.4 | 0.770 | 2.945 | 74.5 | 181.5 | --- | 5.212 | 1.31 | 0.211 | 84.8 | 54.4 | 3.7 | 0.227 |
| 4- 660 | 4-1600 | 0.661 | 181.8 | -0.9 | -0.05 | 1.293 | 58.8 | 0.768 | 2.948 | 73.5 | 182.3 | --- | 5.212 | 1.32 | 0.213 | 82.5 | 53.8 | 3.7 | 0.227 |
| 4- 660 | 4-1620 | 0.654 | 182.3 | -1.2 | -0.09 | 1.293 | 59.3 | 0.766 | 2.953 | 72.6 | 183.0 | --- | 5.214 | 1.33 | 0.216 | 80.3 | 53.3 | 3.7 | 0.227 |
| 4- 660 | 4-1640 | 0.646 | 182.8 | -1.5 | -0.13 | 1.294 | 59.7 | 0.764 | 2.959 | 71.6 | 183.7 | --- | 5.219 | 1.35 | 0.219 | 78.3 | 52.9 | 3.7 | 0.227 |
| 4- 660 | 4-1660 | 0.639 | 183.3 | -1.8 | -0.17 | 1.294 | 60.2 | 0.762 | 2.966 | 70.6 | 184.4 | --- | 5.225 | 1.36 | 0.222 | 76.4 | 52.6 | 3.7 | 0.227 |
| 4- 660 | 4-1680 | 0.631 | 183.9 | -2.1 | -0.22 | 1.294 | 60.6 | 0.760 | 2.974 | 69.6 | 185.1 | --- | 5.233 | 1.38 | 0.225 | 74.6 | 52.4 | 3.8 | 0.227 |
| 4- 660 | 4-1700 | 0.624 | 184.4 | -2.4 | -0.26 | 1.295 | 61.1 | 0.758 | 2.982 | 68.6 | 185.7 | --- | 5.242 | 1.40 | 0.228 | 72.9 | 52.2 | 3.8 | 0.228 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 660 | 4-1720 | 0.616 | 185.0 | -2.8 | -0.31 | 1.295 | 61.5 | 0.756 | 2.991 | 67.6 | 186.4 | --- | 5.253 | 1.43 | 0.232 | 71.4 | 52.1 | 3.8 | 0.229 |
| 4- 660 | 4-1740 | 0.608 | 185.6 | -3.1 | -0.36 | 1.296 | 62.0 | 0.754 | 3.001 | 66.5 | 187.0 | --- | 5.265 | 1.45 | 0.235 | 69.9 | 52.1 | 3.8 | 0.230 |
| 4- 660 | 4-1760 | 0.601 | 186.1 | -3.5 | -0.41 | 1.296 | 62.5 | 0.753 | 3.012 | 65.4 | 187.6 | --- | 5.278 | 1.48 | 0.239 | 68.6 | 52.2 | 3.8 | 0.231 |
| 4- 660 | 4-1780 | 0.593 | 186.8 | -3.9 | -0.46 | 1.296 | 62.9 | 0.751 | 3.022 | 64.3 | 188.2 | --- | 5.292 | 1.51 | 0.242 | 67.3 | 52.3 | 3.9 | 0.232 |
| 4- 660 | 4-1800 | 0.585 | 187.4 | -4.3 | -0.52 | 1.297 | 63.4 | 0.749 | 3.034 | 63.2 | 188.8 | --- | 5.307 | 1.54 | 0.246 | 66.1 | 52.5 | 3.9 | 0.233 |
| 4- 660 | 4-1820 | 0.577 | 188.0 | -4.7 | -0.57 | 1.297 | 63.9 | 0.748 | 3.046 | 62.1 | 189.4 | --- | 5.324 | 1.57 | 0.250 | 65.0 | 52.7 | 4.0 | 0.235 |
| 4- 660 | 4-1840 | 0.569 | 188.7 | -5.2 | -0.63 | 1.298 | 64.4 | 0.746 | 3.058 | 61.0 | 190.0 | --- | 5.340 | 1.61 | 0.253 | 63.9 | 53.1 | 4.0 | 0.236 |
| 4- 660 | 4-1860 | 0.562 | 189.4 | -5.6 | -0.70 | 1.298 | 64.9 | 0.745 | 3.071 | 59.8 | 190.6 | --- | 5.358 | 1.65 | 0.257 | 63.0 | 53.4 | 4.1 | 0.238 |
| 4- 660 | 4-1880 | 0.554 | 190.1 | -6.1 | -0.77 | 1.299 | 65.4 | 0.744 | 3.084 | 58.7 | 191.1 | --- | 5.376 | 1.69 | 0.261 | 62.0 | 53.9 | 4.1 | 0.240 |
| 4- 660 | 4-1900 | 0.546 | 190.8 | -6.6 | -0.84 | 1.299 | 65.9 | 0.742 | 3.097 | 57.5 | 191.7 | --- | 5.395 | 1.74 | 0.264 | 61.2 | 54.4 | 4.2 | 0.242 |
| 4- 660 | 4-1920 | 0.538 | 191.5 | -7.2 | -0.91 | 1.300 | 66.4 | 0.741 | 3.110 | 56.3 | 192.2 | --- | 5.415 | 1.80 | 0.268 | 60.4 | 54.9 | 4.2 | 0.243 |
| 4- 660 | 4-1940 | 0.530 | 192.3 | -7.7 | -0.99 | 1.301 | 66.9 | 0.740 | 3.124 | 55.1 | 192.8 | --- | 5.435 | 1.86 | 0.272 | 59.6 | 55.5 | 4.3 | 0.245 |
| 4- 660 | 4-1960 | 0.522 | 193.1 | -8.3 | -1.08 | 1.301 | 67.4 | 0.738 | 3.138 | 53.9 | 193.3 | --- | 5.455 | 1.92 | 0.275 | 58.9 | 56.1 | 4.4 | 0.247 |
| 4- 660 | 4-1980 | 0.514 | 193.9 | -8.9 | -1.17 | 1.302 | 68.0 | 0.737 | 3.152 | 52.5 | 193.8 | --- | 5.476 | 1.99 | 0.279 | 58.2 | 56.8 | 4.5 | 0.249 |
| 4- 660 | 4-2000 | 0.506 | 194.7 | -9.6 | -1.28 | 1.302 | 68.5 | 0.736 | 3.167 | 51.4 | 194.3 | --- | 5.498 | 2.07 | 0.282 | 57.6 | 57.6 | 4.6 | 0.251 |
| 4- 660 | 4-2020 | 0.498 | 195.5 | -10.3 | -1.39 | 1.303 | 69.0 | 0.735 | 3.181 | 50.1 | 194.8 | --- | 5.519 | 2.16 | 0.285 | 57.0 | 58.3 | 4.7 | 0.253 |
| 4- 660 | 4-2040 | 0.490 | 196.4 | -11.0 | -1.51 | 1.303 | 69.6 | 0.734 | 3.196 | 48.9 | 195.3 | --- | 5.542 | 2.26 | 0.289 | 56.4 | 59.1 | 4.8 | 0.255 |
| 4- 660 | 4-2060 | 0.483 | 197.2 | -11.8 | -1.64 | 1.304 | 70.1 | 0.733 | 3.211 | 47.6 | 195.8 | --- | 5.564 | 2.37 | 0.292 | 55.9 | 60.0 | 4.9 | 0.257 |
| 4- 660 | 4-2080 | 0.475 | 198.1 | -12.7 | -1.78 | 1.304 | 70.6 | 0.732 | 3.226 | 46.3 | 196.3 | --- | 5.587 | 2.50 | 0.295 | 55.4 | 60.9 | 5.0 | 0.259 |
| 4- 660 | 4-2100 | 0.467 | 199.0 | -13.6 | -1.95 | 1.305 | 71.2 | 0.731 | 3.241 | 45.0 | 196.8 | --- | 5.611 | 2.64 | 0.298 | 54.9 | 61.8 | 5.2 | 0.261 |
| 4- 660 | 4-2120 | 0.460 | 199.9 | -14.6 | -2.13 | 1.306 | 71.7 | 0.730 | 3.256 | 43.7 | 197.2 | --- | 5.635 | 2.80 | 0.302 | 54.4 | 62.8 | 5.3 | 0.263 |
| 4- 660 | 4-2140 | 0.452 | 200.8 | -15.7 | -2.34 | 1.306 | 72.3 | 0.730 | 3.272 | 42.4 | 197.7 | --- | 5.659 | 2.99 | 0.305 | 54.0 | 63.8 | 5.5 | 0.265 |
| 4- 660 | 4-2160 | 0.445 | 201.7 | -16.9 | -2.58 | 1.307 | 72.8 | 0.729 | 3.287 | 41.0 | 198.1 | --- | 5.683 | 3.21 | 0.308 | 53.6 | 64.8 | 5.8 | 0.267 |
| 4- 660 | 4-2180 | 0.438 | 202.6 | -18.3 | -2.86 | 1.307 | 73.4 | 0.728 | 3.303 | 39.7 | 198.6 | --- | 5.708 | 3.47 | 0.311 | 53.2 | 65.8 | 6.0 | 0.269 |
| 4- 660 | 4-2200 | 0.432 | 203.5 | -19.8 | -3.18 | 1.308 | 74.0 | 0.728 | 3.318 | 38.3 | 199.0 | --- | 5.732 | 3.78 | 0.314 | 52.8 | 66.9 | 6.3 | 0.271 |
| 4- 660 | 4-2220 | 0.425 | 204.3 | -21.6 | -3.58 | 1.308 | 74.5 | 0.727 | 3.334 | 37.0 | 199.4 | --- | 5.758 | 4.15 | 0.316 | 52.4 | 68.0 | 6.6 | 0.274 |
| 4- 660 | 4-2240 | 0.420 | 205.1 | -23.6 | -4.06 | 1.309 | 75.1 | 0.726 | 3.350 | 35.6 | 199.8 | --- | 5.783 | 4.61 | 0.319 | 52.1 | 69.2 | 7.1 | 0.276 |
| 4- 660 | 4-2260 | 0.415 | 205.7 | -26.0 | -4.66 | 1.309 | 75.7 | 0.726 | 3.365 | 34.2 | 200.3 | --- | 5.809 | 5.19 | 0.322 | 51.8 | 70.4 | 7.6 | 0.278 |
| 4- 670 | 4-1030 | 1.004 | 181.1 | 0.7 | 1.13 | 1.401 | 43.3 | 0.981 | 23.842 | 94.6 | 147.8 | --- | --- | 1.62 | 0.574 | 161.9 | 76.2 | 3.5 | 0.612 |
| 4- 670 | 4-1050 | 0.987 | 180.7 | 0.8 | 1.07 | 1.384 | 43.6 | 0.958 | 10.967 | 95.6 | 150.3 | --- | --- | 1.59 | 0.530 | 160.5 | 75.8 | 3.5 | 0.570 |
| 4- 670 | 4-1070 | 0.972 | 180.3 | 0.9 | 1.02 | 1.369 | 43.8 | 0.939 | 7.567 | 96.3 | 152.6 | --- | --- | 1.56 | 0.490 | 159.0 | 75.3 | 3.5 | 0.534 |
| 4- 670 | 4-1090 | 0.959 | 180.1 | 1.0 | 0.97 | 1.356 | 44.1 | 0.923 | 6.009 | 96.9 | 154.7 | --- | --- | 1.53 | 0.454 | 157.3 | 74.7 | 3.5 | 0.501 |
| 4- 670 | 4-1110 | 0.947 | 179.9 | 1.1 | 0.92 | 1.346 | 44.4 | 0.910 | 5.122 | 97.3 | 156.7 | --- | --- | 1.51 | 0.422 | 155.5 | 74.1 | 3.5 | 0.471 |
| 4- 670 | 4-1130 | 0.935 | 179.7 | 1.1 | 0.88 | 1.337 | 44.7 | 0.898 | 4.556 | 97.6 | 158.5 | --- | --- | 1.48 | 0.392 | 153.5 | 73.4 | 3.5 | 0.445 |
| 4- 670 | 4-1150 | 0.925 | 179.7 | 1.1 | 0.83 | 1.329 | 45.0 | 0.888 | 4.166 | 97.7 | 160.2 | --- | --- | 1.46 | 0.366 | 151.4 | 72.6 | 3.5 | 0.421 |
| 4- 670 | 4-1170 | 0.915 | 179.6 | 1.0 | 0.79 | 1.322 | 45.3 | 0.880 | 3.884 | 97.7 | 161.8 | --- | --- | 1.44 | 0.342 | 149.1 | 71.8 | 3.5 | 0.399 |
| 4- 670 | 4-1190 | 0.906 | 179.7 | 1.0 | 0.74 | 1.317 | 45.7 | 0.872 | 3.673 | 97.6 | 163.3 | --- | --- | 1.42 | 0.320 | 146.7 | 71.0 | 3.6 | 0.380 |
| 4- 670 | 4-1210 | 0.897 | 179.7 | 0.9 | 0.70 | 1.312 | 46.0 | 0.865 | 3.511 | 97.4 | 164.7 | --- | --- | 1.41 | 0.300 | 144.0 | 70.1 | 3.6 | 0.362 |
| 4- 670 | 4-1230 | 0.888 | 179.8 | 0.8 | 0.66 | 1.308 | 46.4 | 0.858 | 3.385 | 97.2 | 166.0 | --- | --- | 1.39 | 0.283 | 141.2 | 69.1 | 3.6 | 0.346 |
| 4- 670 | 4-1250 | 0.880 | 180.0 | 0.7 | 0.62 | 1.304 | 46.7 | 0.853 | 3.284 | 96.8 | 167.2 | --- | --- | 1.38 | 0.267 | 138.3 | 68.1 | 3.6 | 0.332 |
| 4- 670 | 4-1270 | 0.871 | 180.1 | 0.6 | 0.58 | 1.301 | 47.1 | 0.847 | 3.203 | 96.4 | 168.4 | --- | --- | 1.36 | 0.253 | 135.1 | 67.1 | 3.6 | 0.319 |
| 4- 670 | 4-1290 | 0.863 | 180.3 | 0.5 | 0.54 | 1.299 | 47.4 | 0.843 | 3.138 | 95.9 | 169.5 | --- | --- | 1.35 | 0.241 | 131.8 | 66.0 | 3.6 | 0.308 |
| 4- 670 | 4-1310 | 0.855 | 180.5 | 0.4 | 0.50 | 1.297 | 47.8 | 0.838 | 3.085 | 95.4 | 170.6 | --- | --- | 1.34 | 0.231 | 128.4 | 65.0 | 3.6 | 0.297 |
| 4- 670 | 4-1330 | 0.847 | 180.8 | 0.2 | 0.46 | 1.295 | 48.2 | 0.834 | 3.042 | 94.8 | 171.6 | --- | --- | 1.33 | 0.222 | 124.8 | 63.9 | 3.6 | 0.288 |
| 4- 670 | 4-1350 | 0.839 | 181.1 | 0.1 | 0.42 | 1.294 | 48.6 | 0.830 | 3.007 | 94.2 | 172.6 | --- | --- | 1.32 | 0.214 | 121.2 | 62.8 | 3.6 | 0.280 |
| 4- 670 | 4-1370 | 0.832 | 181.3 | -0.1 | 0.39 | 1.292 | 49.0 | 0.826 | 2.979 | 93.5 | 173.5 | --- | --- | 1.32 | 0.208 | 117.5 | 61.7 | 3.6 | 0.273 |
| 4- 670 | 4-1390 | 0.824 | 181.7 | -0.3 | 0.35 | 1.291 | 49.4 | 0.822 | 2.957 | 92.8 | 174.4 | --- | --- | 1.31 | 0.203 | 113.7 | 60.7 | 3.6 | 0.267 |
| 4- 670 | 4-1410 | 0.816 | 182.0 | -0.4 | 0.31 | 1.291 | 49.8 | 0.819 | 2.939 | 92.1 | 175.3 | --- | --- | 1.31 | 0.199 | 110.0 | 59.7 | 3.6 | 0.261 |
| 4- 670 | 4-1430 | 0.808 | 182.3 | -0.6 | 0.27 | 1.290 | 50.3 | 0.816 | 2.925 | 91.3 | 176.2 | --- | --- | 1.30 | 0.196 | 106.4 | 58.7 | 3.6 | 0.257 |
| 4- 670 | 4-1450 | 0.800 | 182.7 | -0.8 | 0.24 | 1.290 | 50.7 | 0.813 | 2.915 | 90.5 | 177.0 | --- | --- | 1.30 | 0.194 | 102.8 | 57.7 | 3.6 | 0.253 |
| 4- 670 | 4-1470 | 0.793 | 183.0 | -1.0 | 0.20 | 1.289 | 51.1 | 0.810 | 2.908 | 89.7 | 177.8 | --- | --- | 1.30 | 0.193 | 99.3 | 56.8 | 3.6 | 0.249 |
| 4- 670 | 4-1490 | 0.785 | 183.4 | -1.3 | 0.16 | 1.289 | 51.6 | 0.807 | 2.903 | 88.8 | 178.6 | --- | --- | 1.30 | 0.193 | 96.0 | 56.0 | 3.6 | 0.246 |
| 4- 670 | 4-1510 | 0.777 | 183.8 | -1.5 | 0.13 | 1.289 | 52.0 | 0.804 | 2.901 | 87.9 | 179.3 | --- | --- | 1.30 | 0.194 | 92.8 | 55.2 | 3.5 | 0.244 |
| 4- 670 | 4-1530 | 0.769 | 184.2 | -1.7 | 0.09 | 1.289 | 52.5 | 0.801 | 2.900 | 87.0 | 180.1 | --- | 5.224 | 1.30 | 0.195 | 89.8 | 54.5 | 3.5 | 0.242 |
| 4- 670 | 4-1550 | 0.761 | 184.7 | -1.9 | 0.05 | 1.289 | 52.9 | 0.799 | 2.901 | 86.1 | 180.8 | --- | 5.218 | 1.30 | 0.197 | 86.9 | 53.9 | 3.5 | 0.241 |
| 4- 670 | 4-1570 | 0.753 | 185.1 | -2.2 | 0.01 | 1.289 | 53.4 | 0.796 | 2.904 | 85.2 | 181.5 | --- | 5.216 | 1.30 | 0.199 | 84.3 | 53.3 | 3.5 | 0.239 |
| 4- 670 | 4-1590 | 0.745 | 185.6 | -2.4 | -0.02 | 1.289 | 53.8 | 0.793 | 2.908 | 84.2 | 182.2 | --- | 5.216 | 1.31 | 0.202 | 81.8 | 52.8 | 3.5 | 0.239 |
| 4- 670 | 4-1610 | 0.737 | 186.0 | -2.7 | -0.06 | 1.289 | 54.3 | 0.791 | 2.914 | 83.2 | 182.8 | --- | 5.219 | 1.31 | 0.204 | 79.4 | 52.4 | 3.5 | 0.238 |
| 4- 670 | 4-1630 | 0.729 | 186.5 | -3.0 | -0.10 | 1.290 | 54.8 | 0.789 | 2.920 | 82.2 | 183.5 | --- | 5.223 | 1.32 | 0.208 | 77.3 | 52.1 | 3.5 | 0.238 |
| 4- 670 | 4-1650 | 0.721 | 187.0 | -3.3 | -0.14 | 1.290 | 55.3 | 0.786 | 2.928 | 81.2 | 184.1 | --- | 5.230 | 1.33 | 0.211 | 75.2 | 51.8 | 3.6 | 0.238 |
| 4- 670 | 4-1670 | 0.713 | 187.5 | -3.5 | -0.18 | 1.290 | 55.7 | 0.784 | 2.936 | 80.1 | 184.8 | --- | 5.238 | 1.34 | 0.215 | 73.4 | 51.6 | 3.6 | 0.238 |
| 4- 670 | 4-1690 | 0.705 | 188.0 | -3.8 | -0.22 | 1.291 | 56.2 | 0.782 | 2.945 | 79.1 | 185.4 | --- | 5.248 | 1.35 | 0.218 | 71.6 | 51.5 | 3.6 | 0.239 |
| 4- 670 | 4-1710 | 0.696 | 188.5 | -4.1 | -0.26 | 1.291 | 56.7 | 0.780 | 2.955 | 78.0 | 186.0 | --- | 5.259 | 1.36 | 0.222 | 70.0 | 51.4 | 3.6 | 0.239 |
| 4- 670 | 4-1730 | 0.688 | 189.1 | -4.4 | -0.31 | 1.292 | 57.2 | 0.778 | 2.965 | 76.9 | 186.6 | --- | 5.271 | 1.38 | 0.226 | 68.5 | 51.5 | 3.6 | 0.240 |
| 4- 670 | 4-1750 | 0.680 | 189.6 | -4.8 | -0.35 | 1.292 | 57.7 | 0.775 | 2.976 | 75.8 | 187.2 | --- | 5.284 | 1.39 | 0.230 | 67.1 | 51.6 | 3.6 | 0.241 |
| 4- 670 | 4-1770 | 0.671 | 190.2 | -5.1 | -0.40 | 1.293 | 58.2 | 0.773 | 2.988 | 74.7 | 187.8 | --- | 5.299 | 1.41 | 0.234 | 65.8 | 51.7 | 3.6 | 0.242 |
| 4- 670 | 4-1790 | 0.663 | 190.8 | -5.4 | -0.44 | 1.293 | 58.7 | 0.771 | 3.000 | 73.6 | 188.4 | --- | 5.314 | 1.43 | 0.238 | 64.6 | 51.9 | 3.7 | 0.243 |
| 4- 670 | 4-1810 | 0.655 | 191.4 | -5.8 | -0.49 | 1.294 | 59.2 | 0.769 | 3.012 | 72.4 | 188.9 | --- | 5.330 | 1.45 | 0.242 | 63.5 | 52.2 | 3.7 | 0.245 |
| 4- 670 | 4-1830 | 0.646 | 192.0 | -6.2 | -0.54 | 1.294 | 59.7 | 0.768 | 3.025 | 71.3 | 189.5 | --- | 5.347 | 1.47 | 0.246 | 62.4 | 52.6 | 3.7 | 0.246 |
| 4- 670 | 4-1850 | 0.638 | 192.6 | -6.5 | -0.59 | 1.295 | 60.3 | 0.766 | 3.038 | 70.1 | 190.1 | --- | 5.365 | 1.50 | 0.250 | 61.5 | 53.0 | 3.8 | 0.247 |
| 4- 670 | 4-1870 | 0.629 | 193.2 | -6.9 | -0.64 | 1.295 | 60.8 | 0.764 | 3.052 | 68.9 | 190.6 | --- | 5.384 | 1.52 | 0.254 | 60.6 | 53.4 | 3.8 | 0.249 |
| 4- 670 | 4-1890 | 0.621 | 193.9 | -7.3 | -0.70 | 1.296 | 61.3 | 0.762 | 3.066 | 67.7 | 191.1 | --- | 5.402 | 1.55 | 0.258 | 59.7 | 53.9 | 3.9 | 0.250 |
| 4- 670 | 4-1910 | 0.612 | 194.6 | -7.8 | -0.76 | 1.297 | 61.8 | 0.760 | 3.080 | 66.5 | 191.7 | --- | 5.422 | 1.58 | 0.262 | 58.9 | 54.5 | 3.9 | 0.252 |
| 4- 670 | 4-1930 | 0.603 | 195.2 | -8.2 | -0.82 | 1.297 | 62.4 | 0.759 | 3.094 | 65.3 | 192.2 | --- | 5.442 | 1.62 | 0.265 | 58.2 | 55.1 | 4.0 | 0.254 |
| 4- 670 | 4-1950 | 0.595 | 195.9 | -8.6 | -0.88 | 1.298 | 62.9 | 0.757 | 3.109 | 64.1 | 192.7 | --- | 5.463 | 1.66 | 0.269 | 57.5 | 55.7 | 4.0 | 0.255 |
| 4- 670 | 4-1970 | 0.586 | 196.7 | -9.1 | -0.94 | 1.298 | 63.4 | 0.755 | 3.124 | 62.9 | 193.2 | --- | 5.484 | 1.70 | 0.273 | 56.8 | 56.4 | 4.1 | 0.257 |
| 4- 670 | 4-1990 | 0.578 | 197.4 | -9.6 | -1.01 | 1.299 | 64.0 | 0.754 | 3.139 | 61.6 | 193.7 | --- | 5.505 | 1.75 | 0.277 | 56.2 | 57.2 | 4.1 | 0.259 |
| 4- 670 | 4-2010 | 0.569 | 198.1 | -10.1 | -1.09 | 1.300 | 64.5 | 0.752 | 3.154 | 60.4 | 194.2 | --- | 5.527 | 1.80 | 0.280 | 55.7 | 58.0 | 4.2 | 0.260 |
| 4- 670 | 4-2030 | 0.560 | 198.9 | -10.6 | -1.17 | 1.300 | 65.1 | 0.751 | 3.169 | 59.1 | 194.7 | --- | 5.549 | 1.85 | 0.284 | 55.1 | 58.8 | 4.3 | 0.262 |
| 4- 670 | 4-2050 | 0.552 | 199.7 | -11.2 | -1.25 | 1.301 | 65.6 | 0.750 | 3.184 | 57.8 | 195.2 | --- | 5.571 | 1.91 | 0.287 | 54.6 | 59.6 | 4.3 | 0.264 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 670 | 4-2070 | 0.543 | 200.5 | - .8 | -1.34 | 1.301 | 66.2 | 0.748 | 3.200 | 56.5 | 195.7 | --- | 5.594 | 1.98 | 0.291 | 54.2 | 60.5 | 4.4 | 0.266 |
| 4- 670 | 4-2090 | 0.535 | 201.3 | -1. .4 | -1.44 | 1.302 | 66.7 | 0.747 | 3.216 | 55.2 | 196.1 | --- | 5.617 | 2.06 | 0.294 | 53.7 | 61.4 | 4.5 | 0.268 |
| 4- 670 | 4-2110 | 0.526 | 202.2 | -13.1 | -1.54 | 1.302 | 67.3 | 0.746 | 3.232 | 53.9 | 196.6 | --- | 5.641 | 2.14 | 0.297 | 53.3 | 62.4 | 4.6 | 0.269 |
| 4- 670 | 4-2130 | 0.518 | 203.0 | -13.8 | -1.66 | 1.303 | 67.9 | 0.744 | 3.247 | 52.6 | 197.1 | --- | 5.665 | 2.23 | 0.301 | 52.9 | 63.4 | 4.7 | 0.271 |
| 4- 670 | 4-2150 | 0.509 | 203.9 | -14.5 | -1.78 | 1.304 | 68.4 | 0.743 | 3.263 | 51.2 | 197.5 | --- | 5.689 | 2.33 | 0.304 | 52.5 | 64.4 | 4.8 | 0.273 |
| 4- 670 | 4-2170 | 0.501 | 204.8 | -15.3 | -1.92 | 1.304 | 69.0 | 0.742 | 3.279 | 49.9 | 197.9 | --- | 5.713 | 2.45 | 0.307 | 52.1 | 65.4 | 4.9 | 0.275 |
| 4- 670 | 4-2190 | 0.493 | 205.7 | -16.2 | -2.07 | 1.305 | 69.6 | 0.741 | 3.296 | 48.5 | 198.4 | --- | 5.738 | 2.58 | 0.310 | 51.8 | 66.5 | 5.1 | 0.277 |
| 4- 670 | 4-2210 | 0.485 | 206.6 | -17.1 | -2.24 | 1.305 | 70.1 | 0.740 | 3.312 | 47.2 | 198.8 | --- | 5.762 | 2.73 | 0.313 | 51.5 | 67.6 | 5.2 | 0.279 |
| 4- 670 | 4-2230 | 0.476 | 207.6 | -18.1 | -2.43 | 1.306 | 70.7 | 0.739 | 3.328 | 45.8 | 199.2 | --- | 5.787 | 2.90 | 0.316 | 51.2 | 68.7 | 5.4 | 0.281 |
| 4- 670 | 4-2250 | 0.469 | 208.5 | -19.2 | -2.65 | 1.306 | 71.3 | 0.738 | 3.344 | 44.4 | 199.7 | --- | 5.813 | 3.09 | 0.319 | 50.9 | 69.9 | 5.6 | 0.282 |
| 4- 670 | 4-2270 | 0.461 | 209.5 | -20.4 | -2.90 | 1.307 | 71.9 | 0.737 | 3.361 | 43.0 | 200.1 | --- | 5.838 | 3.32 | 0.321 | 50.6 | 71.1 | 5.8 | 0.284 |
| 4- 680 | 4-1040 | 1.120 | 183.8 | -0.6 | 1.28 | 1.390 | 36.2 | 0.976 | 14.432 | 109.6 | 153.7 | --- | --- | 1.88 | 0.550 | 163.9 | 74.1 | 3.4 | 0.607 |
| 4- 680 | 4-1060 | 1.101 | 183.6 | -0.6 | 1.21 | 1.373 | 36.6 | 0.960 | 8.625 | 110.1 | 155.7 | --- | --- | 1.82 | 0.506 | 162.5 | 73.6 | 3.4 | 0.567 |
| 4- 680 | 4-1080 | 1.083 | 183.4 | -0.5 | 1.14 | 1.358 | 37.0 | 0.947 | 6.465 | 110.4 | 157.6 | --- | --- | 1.78 | 0.467 | 160.9 | 73.0 | 3.4 | 0.531 |
| 4- 680 | 4-1100 | 1.068 | 183.3 | -0.5 | 1.08 | 1.347 | 37.5 | 0.935 | 5.348 | 110.6 | 159.3 | --- | --- | 1.74 | 0.431 | 159.3 | 72.3 | 3.5 | 0.500 |
| 4- 680 | 4-1120 | 1.053 | 183.3 | -0.6 | 1.02 | 1.336 | 37.9 | 0.925 | 4.671 | 110.7 | 160.9 | --- | --- | 1.70 | 0.399 | 157.4 | 71.6 | 3.5 | 0.471 |
| - 680 | 4-1140 | 1.040 | 183.3 | -0.6 | 0.96 | 1.328 | 38.3 | 0.916 | 4.221 | 110.6 | 162.4 | --- | --- | 1.66 | 0.370 | 155.4 | 70.8 | 3.5 | 0.445 |
| 4- 680 | 4-1160 | 1.028 | 183.3 | -0.7 | 0.90 | 1.321 | 38.8 | 0.908 | 3.905 | 110.4 | 163.8 | --- | --- | 1.62 | 0.343 | 153.2 | 70.0 | 3.5 | 0.422 |
| 4- 680 | 4-1180 | 1.016 | 183.4 | -0.7 | 0.85 | 1.314 | 39.2 | 0.901 | 3.672 | 110.1 | 165.1 | --- | --- | 1.59 | 0.320 | 150.9 | 69.1 | 3.5 | 0.402 |
| 4- 680 | 4-1200 | 1.005 | 183.6 | -0.8 | 0.79 | 1.309 | 39.6 | 0.895 | 3.496 | 109.8 | 166.3 | --- | --- | 1.56 | 0.298 | 148.3 | 68.2 | 3.5 | 0.383 |
| 4- 680 | 4-1220 | 0.995 | 183.7 | -0.9 | 0.74 | 1.305 | 40.1 | 0.889 | 3.359 | 109.3 | 167.5 | --- | --- | 1.54 | 0.279 | 145.5 | 67.2 | 3.5 | 0.366 |
| 4- 680 | 4-1240 | 0.984 | 183.9 | -1.0 | 0.69 | 1.301 | 40.5 | 0.883 | 3.252 | 108.8 | 168.5 | --- | --- | 1.51 | 0.261 | 142.6 | 66.3 | 3.5 | 0.351 |
| 4- 680 | 4-1260 | 0.974 | 184.1 | -1.2 | 0.65 | 1.298 | 41.0 | 0.878 | 3.167 | 108.3 | 169.6 | --- | --- | 1.49 | 0.246 | 139.4 | 65.3 | 3.5 | 0.338 |
| 4- 680 | 4-1280 | 0.965 | 184.4 | -1.3 | 0.60 | 1.295 | 41.4 | 0.873 | 3.099 | 107.7 | 170.6 | --- | --- | 1.46 | 0.232 | 135.9 | 64.2 | 3.5 | 0.326 |
| 4- 680 | 4-1300 | 0.955 | 184.6 | -1.5 | 0.55 | 1.293 | 41.9 | 0.869 | 3.043 | 107.0 | 171.5 | --- | --- | 1.44 | 0.220 | 132.3 | 63.2 | 3.5 | 0.315 |
| 4- 680 | 4-1320 | 0.946 | 184.9 | -1.6 | 0.51 | 1.291 | 42.4 | 0.865 | 2.999 | 106.3 | 172.4 | --- | --- | 1.43 | 0.210 | 128.6 | 62.1 | 3.5 | 0.305 |
| 4- 680 | 4-1340 | 0.937 | 185.2 | -1.8 | 0.47 | 1.289 | 42.8 | 0.861 | 2.963 | 105.6 | 173.3 | --- | --- | 1.41 | 0.201 | 124.6 | 61.1 | 3.5 | 0.297 |
| 4- 680 | 4-1360 | 0.928 | 185.5 | -1.9 | 0.43 | 1.288 | 43.3 | 0.857 | 2.934 | 104.8 | 174.1 | --- | --- | 1.39 | 0.194 | 120.6 | 60.1 | 3.5 | 0.290 |
| 4- 680 | 4-1380 | 0.919 | 185.8 | -2.1 | 0.38 | 1.287 | 43.8 | 0.853 | 2.912 | 104.1 | 175.0 | --- | --- | 1.38 | 0.189 | 116.5 | 59.1 | 3.5 | 0.283 |
| 4- 680 | 4-1400 | 0.910 | 186.2 | -2.3 | 0.34 | 1.286 | 44.3 | 0.849 | 2.894 | 103.2 | 175.7 | --- | --- | 1.37 | 0.184 | 112.4 | 58.1 | 3.4 | 0.277 |
| 4- 680 | 4-1420 | 0.902 | 186.5 | -2.5 | 0.30 | 1.286 | 44.7 | 0.846 | 2.880 | 102.4 | 176.5 | --- | --- | 1.36 | 0.181 | 108.3 | 57.2 | 3.4 | 0.272 |
| 4- 680 | 4-1440 | 0.893 | 186.9 | -2.7 | 0.26 | 1.285 | 45.2 | 0.843 | 2.870 | 101.5 | 177.3 | --- | --- | 1.34 | 0.179 | 104.3 | 56.3 | 3.4 | 0.268 |
| 4- 680 | 4-1460 | 0.884 | 187.3 | -2.9 | 0.22 | 1.285 | 45.7 | 0.839 | 2.863 | 100.6 | 178.0 | --- | --- | 1.34 | 0.178 | 100.4 | 55.5 | 3.4 | 0.264 |
| 4- 680 | 4-1480 | 0.876 | 187.7 | -3.1 | 0.19 | 1.285 | 46.2 | 0.836 | 2.858 | 99.7 | 178.7 | --- | --- | 1.33 | 0.178 | 96.6 | 54.7 | 3.4 | 0.261 |
| 4- 680 | 4-1500 | 0.867 | 188.1 | -3.3 | 0.15 | 1.285 | 46.7 | 0.833 | 2.856 | 98.7 | 179.4 | --- | --- | 1.32 | 0.179 | 93.1 | 54.0 | 3.4 | 0.259 |
| 4- 680 | 4-1520 | 0.858 | 188.5 | -3.5 | 0.11 | 1.285 | 47.2 | 0.830 | 2.856 | 97.8 | 180.1 | --- | 5.227 | 1.32 | 0.180 | 89.7 | 53.4 | 3.4 | 0.256 |
| 4- 680 | 4-1540 | 0.849 | 188.9 | -3.8 | 0.07 | 1.285 | 47.7 | 0.827 | 2.858 | 96.8 | 180.7 | --- | 5.222 | 1.31 | 0.182 | 86.5 | 52.8 | 3.4 | 0.255 |
| 4- 680 | 4-1560 | 0.841 | 189.3 | -4.0 | 0.03 | 1.285 | 48.2 | 0.824 | 2.861 | 95.8 | 181.4 | --- | 5.220 | 1.31 | 0.185 | 83.6 | 52.3 | 3.4 | 0.253 |
| 4- 680 | 4-1580 | 0.832 | 189.8 | -4.2 | -0.01 | 1.285 | 48.7 | 0.821 | 2.866 | 94.8 | 182.0 | --- | 5.220 | 1.31 | 0.188 | 80.8 | 51.8 | 3.4 | 0.252 |
| 4- 680 | 4-1600 | 0.823 | 190.2 | -4.5 | -0.04 | 1.285 | 49.2 | 0.819 | 2.872 | 93.7 | 182.6 | --- | 5.223 | 1.30 | 0.191 | 78.3 | 51.5 | 3.4 | 0.252 |
| 4- 680 | 4-1620 | 0.815 | 190.7 | -4.7 | -0.08 | 1.286 | 49.7 | 0.816 | 2.879 | 92.7 | 183.3 | --- | 5.228 | 1.30 | 0.195 | 76.0 | 51.2 | 3.4 | 0.251 |
| 4- 680 | 4-1640 | 0.806 | 191.2 | -5.0 | -0.12 | 1.286 | 50.2 | 0.813 | 2.887 | 91.6 | 183.9 | --- | 5.235 | 1.30 | 0.199 | 73.8 | 51.0 | 3.4 | 0.251 |
| 4- 680 | 4-1660 | 0.797 | 191.7 | -5.2 | -0.16 | 1.286 | 50.8 | 0.811 | 2.896 | 90.5 | 184.5 | --- | 5.243 | 1.31 | 0.203 | 71.8 | 50.9 | 3.4 | 0.251 |
| 4- 680 | 4-1680 | 0.788 | 192.2 | -5.5 | -0.20 | 1.287 | 51.3 | 0.808 | 2.905 | 89.4 | 185.0 | --- | 5.253 | 1.31 | 0.207 | 70.0 | 50.8 | 3.4 | 0.252 |
| 4- 680 | 4-1700 | 0.779 | 192.7 | -5.8 | -0.23 | 1.287 | 51.8 | 0.806 | 2.916 | 88.3 | 185.6 | --- | 5.265 | 1.31 | 0.211 | 68.3 | 50.8 | 3.4 | 0.252 |
| 4- 680 | 4-1720 | 0.771 | 193.2 | -6.0 | -0.27 | 1.288 | 52.3 | 0.803 | 2.927 | 87.2 | 186.2 | --- | 5.277 | 1.32 | 0.215 | 66.7 | 50.8 | 3.4 | 0.253 |
| 4- 680 | 4-1740 | 0.762 | 193.7 | -6.3 | -0.31 | 1.288 | 52.9 | 0.801 | 2.938 | 86.1 | 186.8 | --- | 5.291 | 1.33 | 0.220 | 65.3 | 51.0 | 3.4 | 0.253 |
| 4- 680 | 4-1760 | 0.753 | 194.2 | -6.6 | -0.35 | 1.289 | 53.4 | 0.798 | 2.951 | 84.9 | 187.3 | --- | 5.306 | 1.33 | 0.224 | 64.0 | 51.2 | 3.4 | 0.254 |
| 4- 680 | 4-1780 | 0.744 | 194.8 | -6.9 | -0.39 | 1.289 | 53.9 | 0.796 | 2.963 | 83.8 | 187.9 | --- | 5.322 | 1.34 | 0.228 | 62.7 | 51.4 | 3.5 | 0.255 |
| 4- 680 | 4-1800 | 0.735 | 195.3 | -7.2 | -0.44 | 1.290 | 54.5 | 0.794 | 2.976 | 82.6 | 188.4 | --- | 5.338 | 1.35 | 0.233 | 61.6 | 51.7 | 3.5 | 0.256 |
| 4- 680 | 4-1820 | 0.726 | 195.9 | -7.5 | -0.48 | 1.291 | 55.0 | 0.791 | 2.990 | 81.5 | 188.9 | --- | 5.355 | 1.37 | 0.237 | 60.6 | 52.1 | 3.5 | 0.257 |
| 4- 680 | 4-1840 | 0.717 | 196.5 | -7.9 | -0.52 | 1.291 | 55.5 | 0.789 | 3.003 | 80.3 | 189.5 | --- | 5.373 | 1.38 | 0.241 | 59.6 | 52.5 | 3.5 | 0.259 |
| 4- 680 | 4-1860 | 0.708 | 197.1 | -8.2 | -0.57 | 1.292 | 56.1 | 0.787 | 3.017 | 79.1 | 190.0 | --- | 5.392 | 1.40 | 0.246 | 58.7 | 53.0 | 3.6 | 0.260 |
| 4- 680 | 4-1880 | 0.699 | 197.7 | -8.5 | -0.61 | 1.292 | 56.6 | 0.785 | 3.032 | 77.9 | 190.5 | --- | 5.411 | 1.41 | 0.250 | 57.9 | 53.5 | 3.6 | 0.261 |
| 4- 680 | 4-1900 | 0.690 | 198.3 | -8.9 | -0.66 | 1.293 | 57.2 | 0.783 | 3.046 | 76.7 | 191.0 | --- | 5.431 | 1.43 | 0.254 | 57.1 | 54.1 | 3.6 | 0.262 |
| 4- 680 | 4-1920 | 0.681 | 198.9 | -9.2 | -0.71 | 1.294 | 57.7 | 0.781 | 3.061 | 75.4 | 191.5 | --- | 5.451 | 1.45 | 0.258 | 56.4 | 54.7 | 3.7 | 0.264 |
| 4- 680 | 4-1940 | 0.671 | 199.6 | -9.6 | -0.76 | 1.294 | 58.3 | 0.778 | 3.077 | 74.2 | 192.0 | --- | 5.472 | 1.47 | 0.262 | 55.7 | 55.4 | 3.7 | 0.265 |
| 4- 680 | 4-1960 | 0.662 | 200.2 | -10.0 | -0.81 | 1.295 | 58.8 | 0.776 | 3.092 | 72.9 | 192.5 | --- | 5.493 | 1.50 | 0.266 | 55.1 | 56.1 | 3.8 | 0.267 |
| 4- 680 | 4-1980 | 0.653 | 200.9 | -10.4 | -0.86 | 1.296 | 59.4 | 0.775 | 3.107 | 71.7 | 193.0 | --- | 5.514 | 1.53 | 0.270 | 54.5 | 56.8 | 3.8 | 0.268 |
| 4- 680 | 4-2000 | 0.644 | 201.6 | -10.8 | -0.92 | 1.296 | 60.0 | 0.773 | 3.123 | 70.4 | 193.5 | --- | 5.536 | 1.56 | 0.274 | 54.0 | 57.6 | 3.9 | 0.270 |
| 4- 680 | 4-2020 | 0.635 | 202.3 | -11.2 | -0.98 | 1.297 | 60.5 | 0.771 | 3.139 | 69.1 | 194.0 | --- | 5.558 | 1.59 | 0.278 | 53.5 | 58.4 | 3.9 | 0.271 |
| 4- 680 | 4-2040 | 0.626 | 203.0 | -11.6 | -1.04 | 1.297 | 61.1 | 0.769 | 3.155 | 67.9 | 194.5 | --- | 5.581 | 1.62 | 0.282 | 53.0 | 59.3 | 4.0 | 0.273 |
| 4- 680 | 4-2060 | 0.616 | 203.7 | -12.1 | -1.10 | 1.298 | 61.7 | 0.767 | 3.171 | 66.6 | 195.0 | --- | 5.604 | 1.66 | 0.285 | 52.6 | 60.2 | 4.0 | 0.274 |
| 4- 680 | 4-2080 | 0.607 | 204.5 | -12.6 | -1.17 | 1.299 | 62.2 | 0.765 | 3.187 | 65.3 | 195.4 | --- | 5.627 | 1.71 | 0.289 | 52.2 | 61.1 | 4.1 | 0.276 |
| 4- 680 | 4-2100 | 0.598 | 205.2 | -13.0 | -1.24 | 1.299 | 62.8 | 0.764 | 3.204 | 63.9 | 195.9 | --- | 5.650 | 1.75 | 0.292 | 51.8 | 62.1 | 4.2 | 0.278 |
| 4- 680 | 4-2120 | 0.589 | 206.0 | -13.5 | -1.31 | 1.300 | 63.4 | 0.762 | 3.220 | 62.6 | 196.3 | --- | 5.674 | 1.80 | 0.296 | 51.4 | 63.1 | 4.2 | 0.279 |
| 4- 680 | 4-2140 | 0.580 | 206.8 | -14.1 | -1.39 | 1.300 | 64.0 | 0.760 | 3.237 | 61.3 | 196.8 | --- | 5.698 | 1.86 | 0.299 | 51.1 | 64.1 | 4.3 | 0.281 |
| 4- 680 | 4-2160 | 0.571 | 207.6 | -14.6 | -1.48 | 1.301 | 64.5 | 0.759 | 3.253 | 60.0 | 197.2 | --- | 5.722 | 1.92 | 0.302 | 50.8 | 65.1 | 4.4 | 0.282 |
| 4- 680 | 4-2180 | 0.562 | 208.5 | -15.2 | -1.57 | 1.302 | 65.1 | 0.757 | 3.270 | 58.6 | 197.7 | --- | 5.746 | 1.99 | 0.306 | 50.5 | 66.2 | 4.5 | 0.284 |
| 4- 680 | 4-2200 | 0.552 | 209.3 | -15.8 | -1.67 | 1.302 | 65.7 | 0.756 | 3.287 | 57.2 | 198.1 | --- | 5.771 | 2.07 | 0.309 | 50.2 | 67.3 | 4.5 | 0.286 |
| 4- 680 | 4-2220 | 0.543 | 210.2 | -16.5 | -1.78 | 1.303 | 66.3 | 0.754 | 3.303 | 55.9 | 198.5 | --- | 5.795 | 2.15 | 0.312 | 49.9 | 68.4 | 4.6 | 0.287 |
| 4- 680 | 4-2240 | 0.534 | 211.1 | -17.2 | -1.89 | 1.303 | 66.9 | 0.753 | 3.320 | 54.5 | 198.9 | --- | 5.820 | 2.24 | 0.315 | 49.6 | 69.5 | 4.7 | 0.289 |
| 4- 680 | 4-2260 | 0.526 | 212.0 | -17.9 | -2.02 | 1.304 | 67.5 | 0.752 | 3.337 | 53.1 | 199.4 | --- | 5.845 | 2.35 | 0.318 | 49.4 | 70.7 | 4.8 | 0.291 |
| 4- 680 | 4-2280 | 0.517 | 213.0 | -18.7 | -2.16 | 1.305 | 68.1 | 0.750 | 3.354 | 51.7 | 199.8 | --- | 5.871 | 2.46 | 0.321 | 49.2 | 71.9 | 5.0 | 0.292 |
| 4- 690 | 4-1050 | 1.236 | 187.1 | -2.2 | 1.53 | 1.379 | 28.9 | 0.979 | 10.777 | 124.5 | 159.5 | --- | --- | 2.22 | 0.528 | 166.4 | 71.9 | 3.4 | 0.607 |
| 4- 690 | 4-1070 | 1.214 | 187.0 | -2.2 | 1.43 | 1.363 | 29.5 | 0.968 | 7.278 | 124.5 | 161.0 | --- | --- | 2.14 | 0.485 | 165.0 | 71.2 | 3.4 | 0.568 |
| 4- 690 | 4-1090 | 1.194 | 187.0 | -2.2 | 1.33 | 1.349 | 30.1 | 0.959 | 5.735 | 124.3 | 162.4 | --- | --- | 2.06 | 0.445 | 163.5 | 70.6 | 3.4 | 0.534 |
| 4- 690 | 4-1110 | 1.177 | 187.1 | -2.3 | 1.25 | 1.338 | 30.7 | 0.951 | 4.875 | 124.0 | 163.7 | --- | --- | 1.99 | 0.410 | 161.8 | 69.8 | 3.4 | 0.503 |
| 4- 690 | 4-1130 | 1.160 | 187.1 | -2.3 | 1.16 | 1.328 | 31.3 | 0.943 | 4.332 | 123.7 | 164.9 | --- | --- | 1.93 | 0.378 | 160.0 | 69.0 | 3.4 | 0.475 |
| 4- 690 | 4-1150 | 1.145 | 187.3 | -2.4 | 1.09 | 1.320 | 31.8 | 0.936 | 3.962 | 123.3 | 166.1 | --- | --- | 1.87 | 0.348 | 158.0 | 68.2 | 3.4 | 0.450 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 690 | 4-1170 | 1.131 | 187.4 | -2.5 | 1.01 | 1.313 | 32.4 | 0.930 | 3.696 | 122.8 | 167.1 | --- | --- | 1.82 | 0.322 | 155.8 | 67.3 | 3.4 | 0.428 |
| 4- 690 | 4-1190 | 1.117 | 187.6 | -2.6 | 0.94 | 1.307 | 33.0 | 0.924 | 3.499 | 122.2 | 168.1 | --- | --- | 1.77 | 0.298 | 153.4 | 66.4 | 3.4 | 0.408 |
| 4- 690 | 4-1210 | 1.105 | 187.8 | -2.8 | 0.88 | 1.302 | 33.5 | 0.919 | 3.348 | 121.6 | 169.1 | --- | --- | 1.73 | 0.276 | 150.7 | 65.5 | 3.4 | 0.390 |
| 4- 690 | 4-1230 | 1.093 | 188.1 | -2.9 | 0.81 | 1.298 | 34.1 | 0.914 | 3.231 | 120.9 | 170.0 | --- | --- | 1.68 | 0.257 | 147.8 | 64.5 | 3.4 | 0.374 |
| 4- 690 | 4-1250 | 1.081 | 188.3 | -3.0 | 0.75 | 1.295 | 34.6 | 0.909 | 3.139 | 120.2 | 170.9 | --- | --- | 1.65 | 0.240 | 144.6 | 63.5 | 3.4 | 0.360 |
| 4- 690 | 4-1270 | 1.070 | 188.6 | -3.2 | 0.70 | 1.292 | 35.2 | 0.905 | 3.066 | 119.4 | 171.7 | --- | --- | 1.61 | 0.224 | 141.2 | 62.5 | 3.4 | 0.347 |
| 4- 690 | 4-1290 | 1.059 | 188.9 | -3.4 | 0.64 | 1.289 | 35.7 | 0.900 | 3.007 | 118.7 | 172.5 | --- | --- | 1.58 | 0.210 | 137.5 | 61.5 | 3.4 | 0.336 |
| 4- 690 | 4-1310 | 1.048 | 189.2 | -3.5 | 0.59 | 1.287 | 36.3 | 0.896 | 2.960 | 117.8 | 173.3 | --- | --- | 1.55 | 0.199 | 133.5 | 60.5 | 3.4 | 0.326 |
| 4- 690 | 4-1330 | 1.038 | 189.6 | -3.7 | 0.54 | 1.285 | 36.8 | 0.892 | 2.922 | 117.0 | 174.1 | --- | --- | 1.52 | 0.189 | 129.3 | 59.5 | 3.3 | 0.317 |
| 4- 690 | 4-1350 | 1.027 | 189.9 | -3.9 | 0.49 | 1.284 | 37.4 | 0.888 | 2.892 | 116.1 | 174.8 | --- | --- | 1.49 | 0.180 | 124.9 | 58.5 | 3.3 | 0.309 |
| 4- 690 | 4-1370 | 1.017 | 190.3 | -4.0 | 0.44 | 1.283 | 37.9 | 0.884 | 2.868 | 115.2 | 175.6 | --- | --- | 1.47 | 0.174 | 120.4 | 57.6 | 3.3 | 0.302 |
| 4- 690 | 4-1390 | 1.007 | 190.6 | -4.2 | 0.39 | 1.282 | 38.5 | 0.881 | 2.850 | 114.3 | 176.2 | --- | --- | 1.44 | 0.168 | 115.8 | 56.7 | 3.3 | 0.296 |
| 4- 690 | 4-1410 | 0.998 | 191.0 | -4.4 | 0.35 | 1.281 | 39.0 | 0.877 | 2.836 | 113.4 | 176.9 | --- | --- | 1.42 | 0.165 | 111.1 | 55.8 | 3.3 | 0.290 |
| 4- 690 | 4-1430 | 0.988 | 191.4 | -4.6 | 0.30 | 1.281 | 39.6 | 0.874 | 2.825 | 112.4 | 177.5 | --- | --- | 1.40 | 0.162 | 106.5 | 55.0 | 3.3 | 0.286 |
| 4- 690 | 4-1450 | 0.978 | 191.8 | -4.8 | 0.26 | 1.280 | 40.1 | 0.870 | 2.818 | 111.4 | 178.2 | --- | --- | 1.39 | 0.161 | 102.0 | 54.2 | 3.3 | 0.282 |
| 4- 690 | 4-1470 | 0.969 | 192.2 | -5.0 | 0.22 | 1.280 | 40.7 | 0.867 | 2.814 | 110.4 | 178.8 | --- | --- | 1.37 | 0.161 | 97.7 | 53.5 | 3.3 | 0.278 |
| 4- 690 | 4-1490 | 0.959 | 192.6 | -5.2 | 0.17 | 1.280 | 41.2 | 0.864 | 2.812 | 109.4 | 179.4 | --- | --- | 1.35 | 0.162 | 93.6 | 52.9 | 3.2 | 0.275 |
| 4- 690 | 4-1510 | 0.950 | 193.0 | -5.5 | 0.13 | 1.280 | 41.8 | 0.860 | 2.812 | 108.4 | 180.0 | --- | 5.231 | 1.34 | 0.163 | 89.8 | 52.3 | 3.2 | 0.273 |
| 4- 690 | 4-1530 | 0.940 | 193.5 | -5.7 | 0.09 | 1.280 | 42.3 | 0.857 | 2.814 | 107.3 | 180.6 | --- | 5.226 | 1.33 | 0.166 | 86.2 | 51.8 | 3.2 | 0.271 |
| 4- 690 | 4-1550 | 0.931 | 193.9 | -5.9 | 0.05 | 1.280 | 42.9 | 0.854 | 2.817 | 106.3 | 181.2 | --- | 5.224 | 1.32 | 0.169 | 82.8 | 51.4 | 3.2 | 0.269 |
| 4- 690 | 4-1570 | 0.921 | 194.3 | -6.1 | 0.01 | 1.281 | 43.4 | 0.851 | 2.822 | 105.2 | 181.8 | --- | 5.224 | 1.31 | 0.172 | 79.8 | 51.0 | 3.2 | 0.268 |
| 4- 690 | 4-1590 | 0.912 | 194.8 | -6.3 | -0.02 | 1.281 | 44.0 | 0.848 | 2.829 | 104.1 | 182.4 | --- | 5.227 | 1.30 | 0.176 | 77.0 | 50.7 | 3.2 | 0.267 |
| 4- 690 | 4-1610 | 0.903 | 195.3 | -6.6 | -0.06 | 1.281 | 44.5 | 0.845 | 2.836 | 103.0 | 183.0 | --- | 5.232 | 1.29 | 0.180 | 74.4 | 50.5 | 3.2 | 0.267 |
| 4- 690 | 4-1630 | 0.893 | 195.7 | -6.8 | -0.10 | 1.282 | 45.1 | 0.842 | 2.845 | 101.9 | 183.5 | --- | 5.240 | 1.29 | 0.184 | 72.0 | 50.3 | 3.2 | 0.266 |
| 4- 690 | 4-1650 | 0.884 | 196.2 | -7.1 | -0.14 | 1.282 | 45.6 | 0.839 | 2.854 | 100.8 | 184.1 | --- | 5.248 | 1.28 | 0.189 | 69.9 | 50.2 | 3.2 | 0.266 |
| 4- 690 | 4-1670 | 0.874 | 196.7 | -7.3 | -0.18 | 1.283 | 46.2 | 0.836 | 2.864 | 99.7 | 184.6 | --- | 5.259 | 1.28 | 0.194 | 68.0 | 50.2 | 3.2 | 0.266 |
| 4- 690 | 4-1690 | 0.865 | 197.2 | -7.6 | -0.21 | 1.283 | 46.8 | 0.833 | 2.875 | 98.5 | 185.2 | --- | 5.270 | 1.28 | 0.198 | 66.2 | 50.2 | 3.2 | 0.266 |
| 4- 690 | 4-1710 | 0.856 | 197.7 | -7.8 | -0.25 | 1.284 | 47.3 | 0.831 | 2.886 | 97.4 | 185.7 | --- | 5.283 | 1.27 | 0.203 | 64.6 | 50.3 | 3.2 | 0.267 |
| 4- 690 | 4-1730 | 0.846 | 198.2 | -8.1 | -0.29 | 1.284 | 47.9 | 0.828 | 2.898 | 96.2 | 186.2 | --- | 5.298 | 1.27 | 0.208 | 63.1 | 50.5 | 3.3 | 0.267 |
| 4- 690 | 4-1750 | 0.837 | 198.7 | -8.3 | -0.33 | 1.285 | 48.4 | 0.825 | 2.911 | 95.1 | 186.8 | --- | 5.313 | 1.27 | 0.213 | 61.7 | 50.7 | 3.3 | 0.268 |
| 4- 690 | 4-1770 | 0.827 | 199.2 | -8.6 | -0.36 | 1.285 | 49.0 | 0.822 | 2.924 | 93.9 | 187.3 | --- | 5.329 | 1.28 | 0.218 | 60.5 | 51.0 | 3.3 | 0.269 |
| 4- 690 | 4-1790 | 0.818 | 199.8 | -8.9 | -0.40 | 1.286 | 49.6 | 0.820 | 2.938 | 92.7 | 187.8 | --- | 5.345 | 1.28 | 0.222 | 59.4 | 51.3 | 3.3 | 0.269 |
| 4- 690 | 4-1810 | 0.808 | 200.3 | -9.1 | -0.44 | 1.287 | 50.1 | 0.817 | 2.952 | 91.5 | 188.3 | --- | 5.363 | 1.28 | 0.227 | 58.3 | 51.7 | 3.3 | 0.270 |
| 4- 690 | 4-1830 | 0.799 | 200.9 | -9.4 | -0.48 | 1.287 | 50.7 | 0.814 | 2.966 | 90.3 | 188.8 | --- | 5.381 | 1.29 | 0.232 | 57.4 | 52.2 | 3.4 | 0.271 |
| 4- 690 | 4-1850 | 0.789 | 201.4 | -9.7 | -0.52 | 1.288 | 51.3 | 0.812 | 2.980 | 89.1 | 189.3 | --- | 5.400 | 1.29 | 0.237 | 56.5 | 52.7 | 3.4 | 0.272 |
| 4- 690 | 4-1870 | 0.780 | 202.0 | -10.0 | -0.56 | 1.289 | 51.9 | 0.809 | 2.995 | 87.9 | 189.8 | --- | 5.420 | 1.30 | 0.241 | 55.7 | 53.2 | 3.4 | 0.273 |
| 4- 690 | 4-1890 | 0.770 | 202.6 | -10.3 | -0.60 | 1.289 | 52.4 | 0.807 | 3.011 | 86.6 | 190.3 | --- | 5.440 | 1.31 | 0.246 | 54.9 | 53.8 | 3.4 | 0.275 |
| 4- 690 | 4-1910 | 0.760 | 203.2 | -10.6 | -0.64 | 1.290 | 53.0 | 0.804 | 3.026 | 85.4 | 190.8 | --- | 5.460 | 1.32 | 0.250 | 54.3 | 54.4 | 3.5 | 0.276 |
| 4- 690 | 4-1930 | 0.751 | 203.8 | -10.9 | -0.68 | 1.291 | 53.6 | 0.802 | 3.042 | 84.1 | 191.3 | --- | 5.481 | 1.33 | 0.255 | 53.6 | 55.1 | 3.5 | 0.277 |
| 4- 690 | 4-1950 | 0.741 | 204.4 | -11.3 | -0.73 | 1.291 | 54.2 | 0.800 | 3.057 | 82.9 | 191.8 | --- | 5.502 | 1.35 | 0.259 | 53.0 | 55.8 | 3.5 | 0.278 |
| 4- 690 | 4-1970 | 0.732 | 205.0 | -11.6 | -0.77 | 1.292 | 54.7 | 0.797 | 3.073 | 81.6 | 192.3 | --- | 5.524 | 1.36 | 0.263 | 52.5 | 56.6 | 3.6 | 0.279 |
| 4- 690 | 4-1990 | 0.722 | 205.7 | -11.9 | -0.81 | 1.293 | 55.3 | 0.795 | 3.090 | 80.3 | 192.7 | --- | 5.546 | 1.38 | 0.267 | 52.0 | 57.4 | 3.6 | 0.281 |
| 4- 690 | 4-2010 | 0.712 | 206.3 | -12.3 | -0.86 | 1.293 | 55.9 | 0.793 | 3.106 | 79.1 | 193.2 | --- | 5.569 | 1.40 | 0.271 | 51.5 | 58.2 | 3.7 | 0.282 |
| 4- 690 | 4-2030 | 0.703 | 207.0 | -12.6 | -0.91 | 1.294 | 56.5 | 0.791 | 3.123 | 77.8 | 193.7 | --- | 5.591 | 1.42 | 0.275 | 51.1 | 59.1 | 3.7 | 0.283 |
| 4- 690 | 4-2050 | 0.693 | 207.7 | -13.0 | -0.96 | 1.295 | 57.1 | 0.788 | 3.139 | 76.5 | 194.1 | --- | 5.614 | 1.44 | 0.279 | 50.7 | 59.9 | 3.7 | 0.285 |
| 4- 690 | 4-2070 | 0.683 | 208.3 | -13.4 | -1.01 | 1.295 | 57.7 | 0.786 | 3.156 | 75.2 | 194.6 | --- | 5.637 | 1.46 | 0.283 | 50.3 | 60.9 | 3.8 | 0.286 |
| 4- 690 | 4-2090 | 0.674 | 209.0 | -13.7 | -1.06 | 1.296 | 58.3 | 0.784 | 3.173 | 73.8 | 195.1 | --- | 5.661 | 1.49 | 0.287 | 50.0 | 61.8 | 3.8 | 0.288 |
| 4- 690 | 4-2110 | 0.664 | 209.8 | -14.1 | -1.12 | 1.297 | 58.9 | 0.782 | 3.190 | 72.5 | 195.5 | --- | 5.685 | 1.52 | 0.290 | 49.7 | 62.8 | 3.9 | 0.289 |
| 4- 690 | 4-2130 | 0.654 | 210.5 | -14.5 | -1.17 | 1.297 | 59.5 | 0.780 | 3.207 | 71.2 | 196.0 | --- | 5.708 | 1.55 | 0.294 | 49.4 | 63.8 | 3.9 | 0.290 |
| 4- 690 | 4-2150 | 0.645 | 211.2 | -15.0 | -1.23 | 1.298 | 60.1 | 0.778 | 3.224 | 69.8 | 196.4 | --- | 5.733 | 1.58 | 0.297 | 49.1 | 64.9 | 4.0 | 0.292 |
| 4- 690 | 4-2170 | 0.635 | 212.0 | -15.4 | -1.30 | 1.298 | 60.7 | 0.776 | 3.241 | 68.5 | 196.8 | --- | 5.757 | 1.62 | 0.301 | 48.8 | 65.9 | 4.1 | 0.293 |
| 4- 690 | 4-2190 | 0.625 | 212.8 | -15.9 | -1.36 | 1.299 | 61.3 | 0.774 | 3.258 | 67.1 | 197.3 | --- | 5.781 | 1.67 | 0.304 | 48.6 | 67.0 | 4.1 | 0.294 |
| 4- 690 | 4-2210 | 0.615 | 213.6 | -16.3 | -1.43 | 1.300 | 61.9 | 0.773 | 3.276 | 65.8 | 197.7 | --- | 5.806 | 1.71 | 0.307 | 48.3 | 68.1 | 4.2 | 0.296 |
| 4- 690 | 4-2230 | 0.606 | 214.4 | -16.8 | -1.51 | 1.300 | 62.5 | 0.771 | 3.293 | 64.4 | 198.1 | --- | 5.831 | 1.76 | 0.311 | 48.1 | 69.3 | 4.2 | 0.297 |
| 4- 690 | 4-2250 | 0.596 | 215.3 | -17.3 | -1.59 | 1.301 | 63.1 | 0.769 | 3.310 | 63.0 | 198.5 | --- | 5.856 | 1.82 | 0.314 | 47.9 | 70.4 | 4.3 | 0.299 |
| 4- 690 | 4-2270 | 0.587 | 216.1 | -17.9 | -1.67 | 1.302 | 63.7 | 0.767 | 3.328 | 61.6 | 198.9 | --- | 5.881 | 1.88 | 0.317 | 47.7 | 71.6 | 4.4 | 0.300 |
| 4- 690 | 4-2290 | 0.577 | 217.0 | -18.4 | -1.76 | 1.302 | 64.3 | 0.766 | 3.345 | 60.2 | 199.4 | --- | 5.906 | 1.95 | 0.320 | 47.6 | 72.8 | 4.5 | 0.301 |
| 4- 700 | 4-1060 | 1.351 | 190.7 | -3.8 | 1.97 | 1.370 | 21.6 | 0.986 | 8.944 | 139.0 | 165.0 | --- | --- | 2.75 | 0.510 | 169.3 | 69.6 | 3.3 | 0.613 |
| 4- 700 | 4-1080 | 1.326 | 190.8 | -3.9 | 1.81 | 1.354 | 22.4 | 0.979 | 6.453 | 138.5 | 166.0 | --- | --- | 2.61 | 0.466 | 168.1 | 68.9 | 3.3 | 0.574 |
| 4- 700 | 4-1100 | 1.304 | 190.9 | -4.0 | 1.66 | 1.341 | 23.1 | 0.973 | 5.245 | 137.8 | 166.9 | --- | --- | 2.48 | 0.427 | 166.6 | 68.2 | 3.3 | 0.540 |
| 4- 700 | 4-1120 | 1.284 | 191.1 | -4.1 | 1.53 | 1.330 | 23.9 | 0.967 | 4.539 | 137.1 | 167.8 | --- | --- | 2.36 | 0.391 | 165.0 | 67.4 | 3.3 | 0.510 |
| 4- 700 | 4-1140 | 1.266 | 191.3 | -4.2 | 1.41 | 1.321 | 24.6 | 0.962 | 4.081 | 136.4 | 168.6 | --- | --- | 2.26 | 0.359 | 163.3 | 66.6 | 3.3 | 0.483 |
| 4- 700 | 4-1160 | 1.249 | 191.6 | -4.3 | 1.30 | 1.313 | 25.3 | 0.957 | 3.764 | 135.6 | 169.4 | --- | --- | 2.17 | 0.329 | 161.3 | 65.7 | 3.3 | 0.459 |
| 4- 700 | 4-1180 | 1.233 | 191.8 | -4.5 | 1.20 | 1.306 | 26.0 | 0.952 | 3.534 | 134.8 | 170.2 | --- | --- | 2.08 | 0.302 | 159.1 | 64.8 | 3.3 | 0.438 |
| 4- 700 | 4-1200 | 1.218 | 192.1 | -4.6 | 1.10 | 1.301 | 26.7 | 0.947 | 3.361 | 133.9 | 170.9 | --- | --- | 2.01 | 0.278 | 156.7 | 63.9 | 3.3 | 0.418 |
| 4- 700 | 4-1220 | 1.204 | 192.4 | -4.8 | 1.01 | 1.296 | 27.3 | 0.943 | 3.229 | 133.1 | 171.6 | --- | --- | 1.93 | 0.256 | 154.0 | 62.9 | 3.3 | 0.401 |
| 4- 700 | 4-1240 | 1.190 | 192.7 | -4.9 | 0.93 | 1.292 | 28.0 | 0.939 | 3.126 | 132.2 | 172.3 | --- | --- | 1.87 | 0.236 | 151.0 | 61.9 | 3.3 | 0.386 |
| 4- 700 | 4-1260 | 1.177 | 193.0 | -5.1 | 0.85 | 1.289 | 28.7 | 0.934 | 3.045 | 131.2 | 172.9 | --- | --- | 1.81 | 0.219 | 147.7 | 61.0 | 3.3 | 0.372 |
| 4- 700 | 4-1280 | 1.164 | 193.4 | -5.3 | 0.78 | 1.286 | 29.3 | 0.930 | 2.980 | 130.3 | 173.6 | --- | --- | 1.76 | 0.203 | 144.0 | 60.0 | 3.2 | 0.360 |
| 4- 700 | 4-1300 | 1.152 | 193.7 | -5.6 | 0.71 | 1.284 | 29.9 | 0.926 | 2.929 | 129.3 | 174.2 | --- | --- | 1.71 | 0.189 | 140.0 | 59.0 | 3.2 | 0.349 |
| 4- 700 | 4-1320 | 1.140 | 194.1 | -5.6 | 0.64 | 1.282 | 30.6 | 0.923 | 2.888 | 128.4 | 174.8 | --- | --- | 1.66 | 0.177 | 135.6 | 58.1 | 3.2 | 0.339 |
| 4- 700 | 4-1340 | 1.129 | 194.5 | -5.8 | 0.58 | 1.280 | 31.2 | 0.919 | 2.856 | 127.4 | 175.4 | --- | --- | 1.62 | 0.167 | 130.9 | 57.2 | 3.2 | 0.331 |
| 4- 700 | 4-1360 | 1.118 | 194.9 | -6.0 | 0.52 | 1.279 | 31.8 | 0.915 | 2.830 | 126.3 | 176.0 | --- | --- | 1.58 | 0.159 | 125.9 | 56.3 | 3.2 | 0.323 |
| 4- 700 | 4-1380 | 1.106 | 195.3 | -6.2 | 0.46 | 1.278 | 32.5 | 0.911 | 2.810 | 125.3 | 176.6 | --- | --- | 1.54 | 0.152 | 120.7 | 55.4 | 3.2 | 0.317 |
| 4- 700 | 4-1400 | 1.096 | 195.7 | -6.4 | 0.41 | 1.277 | 33.1 | 0.908 | 2.795 | 124.3 | 177.2 | --- | --- | 1.51 | 0.147 | 115.4 | 54.6 | 3.1 | 0.311 |
| 4- 700 | 4-1420 | 1.085 | 196.1 | -6.6 | 0.36 | 1.277 | 33.7 | 0.904 | 2.783 | 123.2 | 177.8 | --- | --- | 1.48 | 0.144 | 110.0 | 53.9 | 3.1 | 0.306 |
| 4- 700 | 4-1440 | 1.074 | 196.5 | -6.8 | 0.31 | 1.276 | 34.3 | 0.901 | 2.776 | 122.2 | 178.3 | --- | --- | 1.45 | 0.142 | 104.7 | 53.2 | 3.1 | 0.301 |
| 4- 700 | 4-1460 | 1.064 | 196.9 | -7.0 | 0.26 | 1.276 | 34.9 | 0.897 | 2.771 | 121.1 | 178.9 | --- | --- | 1.42 | 0.142 | 99.6 | 52.5 | 3.1 | 0.297 |
| 4- 700 | 4-1480 | 1.053 | 197.4 | -7.2 | 0.21 | 1.276 | 35.5 | 0.894 | 2.769 | 120.0 | 179.4 | --- | --- | 1.40 | 0.143 | 94.7 | 52.0 | 3.1 | 0.294 |
| 4- 700 | 4-1500 | 1.043 | 197.8 | -7.4 | 0.17 | 1.276 | 36.1 | 0.891 | 2.769 | 118.9 | 180.0 | --- | --- | 1.38 | 0.145 | 90.2 | 51.4 | 3.1 | 0.292 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 700 | 4-1520 | 1.033 | 198.2 | -7.6 | 0.12 | 1.276 | 36.8 | 0.887 | 2.771 | 117.8 | 180.5 | --- | 5.229 | 1.36 | 0.147 | 86.0 | 51.0 | 3.1 | 0.289 |
| 4- 700 | 4-1540 | 1.023 | 198.7 | -7.8 | 0.08 | 1.276 | 37.4 | 0.884 | 2.774 | 116.7 | 181.0 | --- | 5.227 | 1.34 | 0.151 | 82.1 | 50.6 | 3.1 | 0.287 |
| 4- 700 | 4-1560 | 1.012 | 199.1 | -8.1 | 0.04 | 1.276 | 38.0 | 0.881 | 2.779 | 115.6 | 181.6 | --- | 5.227 | 1.32 | 0.155 | 78.6 | 50.3 | 3.1 | 0.286 |
| 4- 700 | 4-1580 | 1.002 | 199.6 | -8.3 | -0.01 | 1.277 | 38.6 | 0.878 | 2.786 | 114.4 | 182.1 | --- | 5.230 | 1.30 | 0.159 | 75.4 | 50.0 | 3.1 | 0.285 |
| 4- 700 | 4-1600 | 0.992 | 200.1 | -8.5 | -0.05 | 1.277 | 39.2 | 0.874 | 2.793 | 113.3 | 182.6 | --- | 5.236 | 1.29 | 0.164 | 72.5 | 49.9 | 3.1 | 0.284 |
| 4- 700 | 4-1620 | 0.982 | 200.5 | -8.7 | -0.09 | 1.278 | 39.8 | 0.871 | 2.802 | 112.1 | 183.1 | --- | 5.243 | 1.27 | 0.169 | 69.9 | 49.7 | 3.1 | 0.283 |
| 4- 700 | 4-1640 | 0.972 | 201.0 | -9.0 | -0.12 | 1.278 | 40.4 | 0.868 | 2.812 | 111.0 | 183.6 | --- | 5.252 | 1.26 | 0.174 | 67.6 | 49.7 | 3.1 | 0.283 |
| 4- 700 | 4-1660 | 0.962 | 201.5 | -9.2 | -0.16 | 1.279 | 41.0 | 0.865 | 2.822 | 109.8 | 184.1 | --- | 5.263 | 1.25 | 0.179 | 65.5 | 49.7 | 3.1 | 0.282 |
| 4- 700 | 4-1680 | 0.952 | 202.0 | -9.4 | -0.20 | 1.279 | 41.6 | 0.862 | 2.833 | 108.6 | 184.6 | --- | 5.275 | 1.24 | 0.184 | 63.6 | 49.8 | 3.1 | 0.282 |
| 4- 700 | 4-1700 | 0.942 | 202.5 | -9.7 | -0.24 | 1.280 | 42.2 | 0.859 | 2.845 | 107.5 | 185.1 | --- | 5.288 | 1.23 | 0.190 | 61.9 | 49.9 | 3.1 | 0.282 |
| 4- 700 | 4-1720 | 0.932 | 203.0 | -9.9 | -0.28 | 1.280 | 42.8 | 0.856 | 2.857 | 106.3 | 185.6 | --- | 5.303 | 1.23 | 0.195 | 60.4 | 50.1 | 3.1 | 0.283 |
| 4- 700 | 4-1740 | 0.922 | 203.5 | -10.1 | -0.31 | 1.281 | 43.4 | 0.853 | 2.870 | 105.1 | 186.1 | --- | 5.318 | 1.22 | 0.200 | 59.0 | 50.4 | 3.1 | 0.283 |
| 4- 700 | 4-1760 | 0.912 | 204.0 | -10.4 | -0.35 | 1.281 | 44.0 | 0.850 | 2.884 | 103.9 | 186.6 | --- | 5.335 | 1.22 | 0.206 | 57.8 | 50.7 | 3.1 | 0.283 |
| 4- 700 | 4-1780 | 0.902 | 204.6 | -10.6 | -0.38 | 1.282 | 44.6 | 0.847 | 2.898 | 102.6 | 187.1 | --- | 5.352 | 1.21 | 0.211 | 56.7 | 51.0 | 3.1 | 0.284 |
| 4- 700 | 4-1800 | 0.892 | 205.1 | -10.9 | -0.42 | 1.283 | 45.2 | 0.844 | 2.912 | 101.4 | 187.6 | --- | 5.370 | 1.21 | 0.216 | 55.6 | 51.4 | 3.2 | 0.285 |
| 4- 700 | 4-1820 | 0.882 | 205.6 | -11.1 | -0.46 | 1.283 | 45.8 | 0.841 | 2.927 | 100.2 | 188.1 | --- | 5.389 | 1.21 | 0.221 | 54.7 | 51.9 | 3.2 | 0.286 |
| 4- 700 | 4-1840 | 0.872 | 206.2 | -11.4 | -0.49 | 1.284 | 46.4 | 0.838 | 2.942 | 99.0 | 188.6 | --- | 5.408 | 1.21 | 0.227 | 53.8 | 52.4 | 3.2 | 0.286 |
| 4- 700 | 4-1860 | 0.862 | 206.7 | -11.7 | -0.53 | 1.285 | 47.0 | 0.836 | 2.957 | 97.7 | 189.1 | --- | 5.428 | 1.21 | 0.232 | 53.1 | 53.0 | 3.2 | 0.287 |
| 4- 700 | 4-1880 | 0.852 | 207.3 | -11.9 | -0.57 | 1.286 | 47.6 | 0.833 | 2.973 | 96.5 | 189.5 | --- | 5.448 | 1.21 | 0.236 | 52.4 | 53.6 | 3.3 | 0.288 |
| 4- 700 | 4-1900 | 0.842 | 207.9 | -12.2 | -0.60 | 1.286 | 48.2 | 0.830 | 2.989 | 95.2 | 190.0 | --- | 5.469 | 1.21 | 0.241 | 51.7 | 54.2 | 3.3 | 0.289 |
| 4- 700 | 4-1920 | 0.832 | 208.5 | -12.5 | -0.64 | 1.287 | 48.8 | 0.827 | 3.005 | 93.9 | 190.5 | --- | 5.491 | 1.21 | 0.246 | 51.1 | 54.9 | 3.3 | 0.290 |
| 4- 700 | 4-1940 | 0.822 | 209.0 | -12.7 | -0.68 | 1.288 | 49.4 | 0.825 | 3.021 | 92.7 | 190.9 | --- | 5.512 | 1.22 | 0.251 | 50.6 | 55.6 | 3.3 | 0.291 |
| 4- 700 | 4-1960 | 0.812 | 209.6 | -13.0 | -0.71 | 1.288 | 50.0 | 0.822 | 3.038 | 91.4 | 191.4 | --- | 5.534 | 1.22 | 0.255 | 50.1 | 56.4 | 3.4 | 0.292 |
| 4- 700 | 4-1980 | 0.802 | 210.2 | -13.3 | -0.75 | 1.289 | 50.6 | 0.819 | 3.054 | 90.1 | 191.9 | --- | 5.557 | 1.23 | 0.260 | 49.6 | 57.2 | 3.4 | 0.293 |
| 4- 700 | 4-2000 | 0.792 | 210.9 | -13.6 | -0.79 | 1.290 | 51.2 | 0.817 | 3.071 | 88.8 | 192.3 | --- | 5.579 | 1.24 | 0.264 | 49.2 | 58.0 | 3.4 | 0.294 |
| 4- 700 | 4-2020 | 0.782 | 211.5 | -13.9 | -0.83 | 1.290 | 51.8 | 0.814 | 3.088 | 87.5 | 192.8 | --- | 5.602 | 1.25 | 0.268 | 48.8 | 58.9 | 3.5 | 0.296 |
| 4- 700 | 4-2040 | 0.772 | 212.1 | -14.2 | -0.87 | 1.291 | 52.4 | 0.812 | 3.105 | 86.2 | 193.2 | --- | 5.625 | 1.26 | 0.272 | 48.5 | 59.8 | 3.5 | 0.297 |
| 4- 700 | 4-2060 | 0.762 | 212.8 | -14.5 | -0.91 | 1.292 | 53.1 | 0.809 | 3.122 | 84.9 | 193.7 | --- | 5.649 | 1.27 | 0.277 | 48.1 | 60.7 | 3.6 | 0.298 |
| 4- 700 | 4-2080 | 0.752 | 213.4 | -14.8 | -0.95 | 1.292 | 53.7 | 0.807 | 3.140 | 83.6 | 194.1 | --- | 5.672 | 1.29 | 0.280 | 47.8 | 61.7 | 3.6 | 0.299 |
| 4- 700 | 4-2100 | 0.742 | 214.1 | -15.2 | -1.00 | 1.293 | 54.3 | 0.804 | 3.157 | 82.3 | 194.6 | --- | 5.696 | 1.30 | 0.284 | 47.6 | 62.6 | 3.6 | 0.300 |
| 4- 700 | 4-2120 | 0.731 | 214.8 | -15.5 | -1.04 | 1.294 | 54.9 | 0.802 | 3.175 | 80.9 | 195.0 | --- | 5.720 | 1.32 | 0.288 | 47.3 | 63.6 | 3.7 | 0.301 |
| 4- 700 | 4-2140 | 0.721 | 215.5 | -15.8 | -1.09 | 1.294 | 55.5 | 0.800 | 3.192 | 79.6 | 195.5 | --- | 5.745 | 1.34 | 0.292 | 47.1 | 64.7 | 3.7 | 0.302 |
| 4- 700 | 4-2160 | 0.711 | 216.2 | -16.2 | -1.13 | 1.295 | 56.1 | 0.797 | 3.210 | 78.2 | 195.9 | --- | 5.769 | 1.36 | 0.296 | 46.9 | 65.7 | 3.8 | 0.304 |
| 4- 700 | 4-2180 | 0.701 | 216.9 | -16.5 | -1.18 | 1.296 | 56.7 | 0.795 | 3.227 | 76.9 | 196.3 | --- | 5.794 | 1.38 | 0.299 | 46.7 | 66.8 | 3.8 | 0.305 |
| 4- 700 | 4-2200 | 0.691 | 217.7 | -16.9 | -1.23 | 1.296 | 57.4 | 0.793 | 3.245 | 75.5 | 196.8 | --- | 5.818 | 1.41 | 0.303 | 46.5 | 67.9 | 3.9 | 0.306 |
| 4- 700 | 4-2220 | 0.681 | 218.4 | -17.3 | -1.29 | 1.297 | 58.0 | 0.791 | 3.263 | 74.1 | 197.2 | --- | 5.843 | 1.44 | 0.306 | 46.3 | 69.1 | 3.9 | 0.307 |
| 4- 700 | 4-2240 | 0.671 | 219.2 | -17.7 | -1.34 | 1.298 | 58.6 | 0.789 | 3.281 | 72.8 | 197.6 | --- | 5.868 | 1.47 | 0.309 | 46.2 | 70.2 | 3.9 | 0.308 |
| 4- 700 | 4-2260 | 0.660 | 220.0 | -18.1 | -1.40 | 1.298 | 59.2 | 0.786 | 3.299 | 71.4 | 198.0 | --- | 5.893 | 1.50 | 0.312 | 46.0 | 71.4 | 4.0 | 0.309 |
| 4- 700 | 4-2280 | 0.650 | 220.8 | -18.5 | -1.46 | 1.299 | 59.8 | 0.784 | 3.317 | 70.0 | 198.4 | --- | 5.918 | 1.54 | 0.315 | 45.9 | 72.6 | 4.0 | 0.311 |
| 4- 700 | 4-2300 | 0.640 | 221.6 | -18.9 | -1.52 | 1.300 | 60.5 | 0.782 | 3.335 | 68.6 | 198.8 | --- | 5.944 | 1.58 | 0.319 | 45.8 | 73.8 | 4.1 | 0.312 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 900 | 4-1320 | 0.857 | 215.1 | -15.2 | -0.86 | 1.426 | 127.1 | 1.00968 | .466 | 286.2 | 498.9 | 0.631 | --- | 1.94 | 0.626 | 160.2 | 103.1 | 3.6 | 0.646 |
| 4- 900 | 4-1340 | 0.826 | 214.7 | -15.0 | -0.77 | 1.408 | 126.1 | 0.97626 | .961 | 286.8 | 501.1 | 0.642 | --- | 1.86 | 0.584 | 158.6 | 103.2 | 3.6 | 0.604 |
| 4- 900 | 4-1360 | 0.799 | 214.5 | -14.8 | -0.68 | 1.392 | 125.2 | 0.94712 | .339 | 287.4 | 503.3 | 0.652 | --- | 1.79 | 0.545 | 157.0 | 103.3 | 3.7 | 0.566 |
| 4- 900 | 4-1380 | 0.775 | 214.2 | -14.6 | -0.59 | 1.379 | 124.4 | 0.922 | 8.436 | 287.9 | 505.5 | 0.661 | --- | 1.73 | 0.510 | 155.3 | 103.3 | 3.7 | 0.530 |
| 4- 900 | 4-1400 | 0.754 | 213.9 | -14.4 | -0.52 | 1.367 | 123.6 | 0.899 | 6.637 | 288.4 | 507.6 | 0.669 | --- | 1.66 | 0.478 | 153.4 | 103.2 | 3.7 | 0.499 |
| 4- 900 | 4-1420 | 0.736 | 213.7 | -14.3 | -0.45 | 1.357 | 123.0 | 0.879 | 5.609 | 288.8 | 509.6 | 0.676 | --- | 1.61 | 0.449 | 151.5 | 103.0 | 3.7 | 0.469 |
| 4- 900 | 4-1440 | 0.720 | 213.6 | -14.1 | -0.38 | 1.348 | 122.4 | 0.862 | 4.948 | 289.2 | 511.6 | 0.682 | --- | 1.56 | 0.422 | 149.5 | 102.7 | 3.7 | 0.443 |
| 4- 900 | 4-1460 | 0.706 | 213.4 | -14.0 | -0.31 | 1.340 | 121.9 | 0.847 | 4.491 | 289.5 | 513.5 | 0.688 | --- | 1.51 | 0.398 | 147.3 | 102.4 | 3.8 | 0.418 |
| 4- 900 | 4-1480 | 0.695 | 213.3 | -13.8 | -0.25 | 1.334 | 121.5 | 0.834 | 4.158 | 289.7 | 515.4 | 0.692 | --- | 1.47 | 0.376 | 145.1 | 101.9 | 3.8 | 0.396 |
| 4- 900 | 4-1500 | 0.685 | 213.2 | -13.7 | -0.20 | 1.328 | 121.1 | 0.822 | 3.907 | 289.9 | 517.2 | 0.696 | --- | 1.43 | 0.355 | 142.7 | 101.4 | 3.8 | 0.375 |
| 4- 900 | 4-1520 | 0.676 | 213.2 | -13.6 | -0.14 | 1.323 | 120.8 | 0.812 | 3.712 | 290.0 | 519.0 | 0.699 | --- | 1.39 | 0.336 | 140.2 | 100.7 | 3.9 | 0.356 |
| 4- 900 | 4-1540 | 0.669 | 213.2 | -13.5 | -0.09 | 1.318 | 120.6 | 0.803 | 3.558 | 290.1 | 520.7 | 0.701 | --- | 1.36 | 0.320 | 137.6 | 99.9 | 3.9 | 0.339 |
| 4- 900 | 4-1560 | 0.663 | 213.2 | -13.4 | -0.04 | 1.315 | 120.4 | 0.795 | 3.434 | 290.1 | 522.4 | 0.702 | --- | 1.33 | 0.304 | 134.9 | 99.0 | 3.9 | 0.324 |
| 4- 900 | 4-1580 | 0.659 | 213.3 | -13.4 | 0.01 | 1.311 | 120.3 | 0.789 | 3.333 | 290.0 | 524.0 | 0.703 | --- | 1.30 | 0.290 | 132.0 | 98.0 | 3.9 | 0.310 |
| 4- 900 | 4-1600 | 0.655 | 213.4 | -13.3 | 0.05 | 1.308 | 120.2 | 0.784 | 3.250 | 289.9 | 525.5 | 0.704 | --- | 1.28 | 0.278 | 129.1 | 96.9 | 4.0 | 0.297 |
| 4- 900 | 4-1620 | 0.653 | 213.5 | -13.3 | 0.10 | 1.306 | 120.1 | 0.779 | 3.182 | 289.8 | 527.0 | 0.703 | --- | 1.25 | 0.266 | 126.0 | 95.8 | 4.0 | 0.286 |
| 4- 900 | 4-1640 | 0.651 | 213.7 | -13.3 | 0.14 | 1.304 | 120.1 | 0.775 | 3.125 | 289.5 | 528.4 | 0.702 | --- | 1.23 | 0.256 | 122.9 | 94.5 | 4.0 | 0.276 |
| 4- 900 | 4-1660 | 0.651 | 213.9 | -13.3 | 0.18 | 1.302 | 120.2 | 0.772 | 3.077 | 289.2 | 529.8 | 0.701 | --- | 1.21 | 0.248 | 119.6 | 93.2 | 4.0 | 0.267 |
| 4- 900 | 4-1680 | 0.651 | 214.1 | -13.3 | 0.22 | 1.300 | 120.2 | 0.770 | 3.037 | 288.9 | 531.1 | 0.699 | --- | 1.19 | 0.240 | 116.3 | 91.8 | 4.1 | 0.259 |
| 4- 900 | 4-1700 | 0.652 | 214.4 | -13.3 | 0.26 | 1.299 | 120.4 | 0.768 | 3.004 | 288.5 | 532.4 | 0.697 | --- | 1.17 | 0.234 | 113.0 | 90.3 | 4.1 | 0.253 |
| 4- 900 | 4-1720 | 0.654 | 214.7 | -13.3 | 0.30 | 1.297 | 120.5 | 0.767 | 2.976 | 288.0 | 533.7 | 0.694 | --- | 1.15 | 0.228 | 109.6 | 88.8 | 4.1 | 0.247 |
| 4- 900 | 4-1740 | 0.657 | 215.0 | -13.4 | 0.33 | 1.296 | 120.7 | 0.766 | 2.953 | 287.5 | 534.8 | 0.690 | --- | 1.14 | 0.223 | 106.2 | 87.4 | 4.1 | 0.243 |
| 4- 900 | 4-1760 | 0.660 | 215.3 | -13.4 | 0.37 | 1.296 | 120.9 | 0.766 | 2.934 | 286.9 | 536.0 | 0.686 | --- | 1.13 | 0.220 | 102.9 | 85.9 | 4.1 | 0.240 |
| 4- 900 | 4-1780 | 0.664 | 215.7 | -13.5 | 0.41 | 1.295 | 121.2 | 0.766 | 2.918 | 286.3 | 537.1 | 0.682 | --- | 1.11 | 0.217 | 99.5 | 84.5 | 4.1 | 0.237 |
| 4- 900 | 4-1800 | 0.668 | 216.1 | -13.6 | 0.44 | 1.294 | 121.5 | 0.767 | 2.906 | 285.7 | 538.1 | 0.677 | --- | 1.10 | 0.215 | 96.2 | 83.1 | 4.0 | 0.235 |
| 4- 900 | 4-1820 | 0.674 | 216.5 | -13.7 | 0.47 | 1.294 | 121.8 | 0.768 | 2.896 | 285.0 | 539.1 | 0.671 | --- | 1.09 | 0.213 | 93.0 | 81.8 | 4.0 | 0.234 |
| 4- 900 | 4-1840 | 0.679 | 217.0 | -13.8 | 0.51 | 1.294 | 122.1 | 0.770 | 2.889 | 284.2 | 540.1 | 0.665 | 5.112 | 1.08 | 0.212 | 89.8 | 80.6 | 4.0 | 0.234 |
| 4- 900 | 4-1860 | 0.686 | 217.4 | -13.9 | 0.54 | 1.293 | 122.5 | 0.771 | 2.883 | 283.4 | 541.0 | 0.659 | 5.107 | 1.08 | 0.212 | 86.7 | 79.4 | 4.0 | 0.235 |
| 4- 900 | 4-1880 | 0.693 | 217.9 | -14.0 | 0.57 | 1.293 | 122.9 | 0.774 | 2.880 | 282.5 | 541.8 | 0.652 | 5.107 | 1.07 | 0.212 | 83.7 | 78.4 | 4.0 | 0.236 |
| 4- 900 | 4-1900 | 0.700 | 218.4 | -14.1 | 0.61 | 1.293 | 123.3 | 0.776 | 2.878 | 281.6 | 542.7 | 0.645 | 5.111 | 1.06 | 0.213 | 80.8 | 77.5 | 3.9 | 0.238 |
| 4- 900 | 4-1920 | 0.708 | 219.0 | -14.2 | 0.64 | 1.293 | 123.8 | 0.779 | 2.877 | 280.7 | 543.5 | 0.637 | 5.117 | 1.06 | 0.214 | 78.1 | 76.7 | 3.9 | 0.240 |
| 4- 900 | 4-1940 | 0.716 | 219.5 | -14.4 | 0.67 | 1.293 | 124.2 | 0.781 | 2.878 | 279.7 | 544.2 | 0.629 | 5.127 | 1.06 | 0.215 | 75.4 | 76.1 | 3.9 | 0.243 |
| 4- 900 | 4-1960 | 0.725 | 220.1 | -14.5 | 0.70 | 1.293 | 124.7 | 0.785 | 2.880 | 278.7 | 544.9 | 0.621 | 5.140 | 1.05 | 0.217 | 72.8 | 75.6 | 3.9 | 0.246 |
| 4- 900 | 4-1980 | 0.735 | 220.6 | -14.7 | 0.74 | 1.293 | 125.3 | 0.788 | 2.884 | 277.6 | 545.6 | 0.612 | 5.155 | 1.05 | 0.219 | 70.4 | 75.1 | 3.8 | 0.250 |
| 4- 900 | 4-2000 | 0.744 | 221.2 | -14.8 | 0.77 | 1.293 | 125.8 | 0.791 | 2.888 | 276.5 | 546.3 | 0.602 | 5.173 | 1.05 | 0.221 | 68.0 | 74.9 | 3.8 | 0.254 |
| 4- 900 | 4-2020 | 0.755 | 221.9 | -15.0 | 0.80 | 1.294 | 126.4 | 0.795 | 2.893 | 275.3 | 546.9 | 0.592 | 5.193 | 1.05 | 0.224 | 65.7 | 74.7 | 3.8 | 0.258 |
| 4- 900 | 4-2040 | 0.765 | 222.5 | -15.1 | 0.83 | 1.294 | 127.0 | 0.799 | 2.899 | 274.1 | 547.4 | 0.582 | 5.215 | 1.05 | 0.226 | 63.6 | 74.6 | 3.8 | 0.262 |
| 4- 900 | 4-2060 | 0.777 | 223.1 | -15.3 | 0.87 | 1.294 | 127.6 | 0.803 | 2.905 | 272.9 | 548.0 | 0.572 | 5.239 | 1.06 | 0.229 | 61.5 | 74.7 | 3.8 | 0.267 |
| 4- 900 | 4-2080 | 0.788 | 223.8 | -15.5 | 0.90 | 1.295 | 128.3 | 0.808 | 2.913 | 271.6 | 548.5 | 0.561 | 5.265 | 1.06 | 0.232 | 59.5 | 74.9 | 3.7 | 0.272 |
| 4- 900 | 4-2100 | 0.800 | 224.4 | -15.7 | 0.93 | 1.295 | 129.0 | 0.812 | 2.921 | 270.3 | 548.9 | 0.549 | 5.292 | 1.06 | 0.235 | 57.5 | 75.2 | 3.7 | 0.278 |
| 4- 900 | 4-2120 | 0.813 | 225.1 | -15.8 | 0.97 | 1.295 | 129.6 | 0.817 | 2.929 | 269.0 | 549.3 | 0.537 | 5.321 | 1.07 | 0.238 | 55.7 | 75.5 | 3.7 | 0.283 |
| 4- 900 | 4-2140 | 0.826 | 225.8 | -16.0 | 1.00 | 1.296 | 130.4 | 0.821 | 2.938 | 267.6 | 549.7 | 0.525 | 5.352 | 1.08 | 0.241 | 53.9 | 76.0 | 3.7 | 0.289 |
| 4- 900 | 4-2160 | 0.839 | 226.5 | -16.2 | 1.03 | 1.296 | 131.1 | 0.826 | 2.948 | 266.2 | 550.1 | 0.512 | 5.383 | 1.08 | 0.244 | 52.2 | 76.6 | 3.7 | 0.294 |
| 4- 900 | 4-2180 | 0.853 | 227.2 | -16.4 | 1.07 | 1.297 | 131.9 | 0.831 | 2.958 | 264.7 | 550.4 | 0.499 | 5.416 | 1.09 | 0.247 | 50.5 | 77.2 | 3.7 | 0.300 |
| 4- 900 | 4-2200 | 0.867 | 228.0 | -16.6 | 1.11 | 1.297 | 132.7 | 0.836 | 2.968 | 263.2 | 550.7 | 0.486 | 5.451 | 1.10 | 0.251 | 48.9 | 77.9 | 3.7 | 0.306 |
| 4- 900 | 4-2220 | 0.882 | 228.7 | -16.8 | 1.14 | 1.298 | 133.5 | 0.841 | 2.979 | 261.7 | 551.0 | 0.472 | 5.486 | 1.11 | 0.254 | 47.3 | 78.7 | 3.7 | 0.313 |
| 4- 900 | 4-2240 | 0.897 | 229.5 | -17.0 | 1.18 | 1.298 | 134.3 | 0.847 | 2.991 | 260.1 | 551.2 | 0.458 | 5.523 | 1.13 | 0.257 | 45.8 | 79.6 | 3.7 | 0.319 |
| 4- 900 | 4-2260 | 0.912 | 230.2 | -17.2 | 1.22 | 1.299 | 135.2 | 0.852 | 3.002 | 258.5 | 551.4 | 0.444 | 5.561 | 1.14 | 0.260 | 44.3 | 80.5 | 3.7 | 0.325 |
| 4- 900 | 4-2280 | 0.928 | 231.0 | -17.4 | 1.26 | 1.299 | 136.0 | 0.858 | 3.014 | 256.9 | 551.6 | 0.429 | 5.599 | 1.16 | 0.263 | 42.9 | 81.5 | 3.7 | 0.332 |
| 4- 900 | 4-2300 | 0.944 | 231.8 | -17.6 | 1.30 | 1.300 | 136.9 | 0.863 | 3.027 | 255.2 | 551.7 | 0.414 | 5.639 | 1.18 | 0.266 | 41.5 | 82.6 | 3.7 | 0.338 |
| 4- 900 | 4-2320 | 0.961 | 232.6 | -17.7 | 1.34 | 1.300 | 137.9 | 0.869 | 3.039 | 253.5 | 551.8 | 0.399 | 5.679 | 1.20 | 0.269 | 40.1 | 83.7 | 3.6 | 0.345 |
| 4- 900 | 4-2340 | 0.977 | 233.4 | -17.9 | 1.38 | 1.301 | 138.8 | 0.874 | 3.052 | 251.8 | 551.9 | 0.384 | 5.720 | 1.22 | 0.273 | 38.7 | 84.9 | 3.6 | 0.352 |
| 4- 900 | 4-2360 | 0.995 | 234.2 | -18.1 | 1.43 | 1.301 | 139.8 | 0.880 | 3.065 | 250.0 | 552.0 | 0.368 | 5.762 | 1.24 | 0.276 | 37.4 | 86.1 | 3.6 | 0.359 |
| 4- 900 | 4-2380 | 1.012 | 235.0 | -18.3 | 1.48 | 1.302 | 140.8 | 0.886 | 3.079 | 248.2 | 552.0 | 0.352 | 5.805 | 1.27 | 0.279 | 36.1 | 87.4 | 3.6 | 0.366 |
| 4- 900 | 4-2400 | 1.030 | 235.8 | -18.5 | 1.53 | 1.302 | 141.8 | 0.891 | 3.093 | 246.3 | 552.0 | 0.336 | 5.849 | 1.29 | 0.282 | 34.8 | 88.7 | 3.6 | 0.373 |
| 4- 900 | 4-2420 | 1.049 | 236.7 | -18.7 | 1.58 | 1.303 | 142.8 | 0.897 | 3.106 | 244.5 | 551.9 | 0.320 | 5.893 | 1.32 | 0.285 | 33.5 | 90.1 | 3.6 | 0.380 |
| 4- 900 | 4-2440 | 1.067 | 237.5 | -18.9 | 1.63 | 1.303 | 143.9 | 0.903 | 3.121 | 242.6 | 551.8 | 0.304 | 5.937 | 1.36 | 0.287 | 32.2 | 91.5 | 3.6 | 0.387 |
| 4- 900 | 4-2460 | 1.086 | 238.4 | -19.1 | 1.69 | 1.304 | 145.0 | 0.908 | 3.135 | 240.6 | 551.7 | 0.288 | 5.982 | 1.40 | 0.290 | 31.0 | 93.0 | 3.6 | 0.394 |
| 4- 900 | 4-2480 | 1.105 | 239.3 | -19.3 | 1.75 | 1.305 | 146.1 | 0.914 | 3.150 | 238.7 | 551.6 | 0.272 | 6.028 | 1.44 | 0.293 | 29.8 | 94.5 | 3.6 | 0.401 |
| 4- 900 | 4-2500 | 1.125 | 240.1 | -19.4 | 1.82 | 1.305 | 147.2 | 0.919 | 3.165 | 236.7 | 551.4 | 0.256 | 6.074 | 1.48 | 0.296 | 28.5 | 96.0 | 3.6 | 0.408 |
| 4- 910 | 4-1330 | 0.801 | 220.6 | -17.5 | -1.13 | 1.430 | 123.6 | 1.01447 | .798 | 293.2 | 496.7 | 0.687 | --- | 2.26 | 0.631 | 159.4 | 104.7 | 3.7 | 0.645 |
| 4- 910 | 4-1350 | 0.770 | 220.2 | -17.2 | -0.98 | 1.412 | 122.6 | 0.97832 | .331 | 294.0 | 499.0 | 0.698 | --- | 2.12 | 0.589 | 157.8 | 104.9 | 3.7 | 0.603 |
| 4- 910 | 4-1370 | 0.743 | 219.9 | -17.0 | -0.85 | 1.396 | 121.7 | 0.94713 | .329 | 294.6 | 501.3 | 0.708 | --- | 2.00 | 0.551 | 156.2 | 105.0 | 3.8 | 0.564 |
| 4- 910 | 4-1390 | 0.719 | 219.5 | -16.7 | -0.73 | 1.382 | 120.9 | 0.919 | 8.876 | 295.2 | 503.5 | 0.717 | --- | 1.90 | 0.516 | 154.5 | 105.0 | 3.8 | 0.529 |
| 4- 910 | 4-1410 | 0.698 | 219.2 | -16.4 | -0.62 | 1.371 | 120.1 | 0.895 | 6.900 | 295.8 | 505.7 | 0.724 | --- | 1.81 | 0.485 | 152.7 | 105.0 | 3.8 | 0.497 |
| 4- 910 | 4-1430 | 0.680 | 219.0 | -16.2 | -0.52 | 1.361 | 119.5 | 0.874 | 5.791 | 296.3 | 507.8 | 0.731 | --- | 1.72 | 0.456 | 150.8 | 104.9 | 3.8 | 0.468 |
| 4- 910 | 4-1450 | 0.664 | 218.8 | -16.0 | -0.43 | 1.352 | 118.9 | 0.855 | 5.086 | 296.7 | 509.9 | 0.737 | --- | 1.65 | 0.429 | 148.7 | 104.7 | 3.8 | 0.441 |
| 4- 910 | 4-1470 | 0.650 | 218.6 | -15.8 | -0.35 | 1.344 | 118.4 | 0.839 | 4.601 | 297.1 | 511.9 | 0.743 | --- | 1.58 | 0.405 | 146.6 | 104.3 | 3.8 | 0.417 |
| 4- 910 | 4-1490 | 0.638 | 218.4 | -15.6 | -0.27 | 1.337 | 117.9 | 0.824 | 4.251 | 297.4 | 513.8 | 0.747 | --- | 1.52 | 0.383 | 144.4 | 103.9 | 3.8 | 0.394 |
| 4- 910 | 4-1510 | 0.627 | 218.3 | -15.5 | -0.20 | 1.332 | 117.6 | 0.812 | 3.987 | 297.7 | 515.7 | 0.751 | --- | 1.46 | 0.363 | 142.1 | 103.4 | 3.9 | 0.373 |
| 4- 910 | 4-1530 | 0.619 | 218.2 | -15.3 | -0.14 | 1.326 | 117.3 | 0.801 | 3.783 | 297.9 | 517.6 | 0.754 | --- | 1.41 | 0.344 | 139.6 | 102.8 | 3.9 | 0.355 |
| 4- 910 | 4-1550 | 0.611 | 218.2 | -15.2 | -0.08 | 1.322 | 117.0 | 0.791 | 3.621 | 298.0 | 519.3 | 0.757 | --- | 1.36 | 0.327 | 137.0 | 102.1 | 3.9 | 0.337 |
| 4- 910 | 4-1570 | 0.605 | 218.2 | -15.1 | -0.02 | 1.318 | 116.8 | 0.783 | 3.492 | 298.0 | 521.1 | 0.758 | --- | 1.32 | 0.312 | 134.4 | 101.3 | 3.9 | 0.321 |
| 4- 910 | 4-1590 | 0.600 | 218.2 | -15.0 | 0.03 | 1.315 | 116.6 | 0.776 | 3.386 | 298.1 | 522.7 | 0.760 | --- | 1.28 | 0.299 | 131.6 | 100.4 | 3.9 | 0.307 |
| 4- 910 | 4-1610 | 0.596 | 218.3 | -14.9 | 0.09 | 1.312 | 116.5 | 0.770 | 3.300 | 298.0 | 524.3 | 0.760 | --- | 1.24 | 0.286 | 128.8 | 99.4 | 4.0 | 0.294 |
| 4- 910 | 4-1630 | 0.594 | 218.4 | -14.8 | 0.13 | 1.309 | 116.5 | 0.764 | 3.228 | 297.9 | 525.9 | 0.760 | --- | 1.21 | 0.275 | 125.8 | 98.2 | 4.0 | 0.283 |
| 4- 910 | 4-1650 | 0.592 | 218.6 | -14.8 | 0.18 | 1.307 | 116.4 | 0.760 | 3.168 | 297.7 | 527.4 | 0.760 | --- | 1.18 | 0.265 | 122.8 | 97.0 | 4.0 | 0.272 |
| 4- 910 | 4-1670 | 0.591 | 218.8 | -14.7 | 0.23 | 1.305 | 116.5 | 0.757 | 3.118 | 297.5 | 528.8 | 0.759 | --- | 1.15 | 0.257 | 119.7 | 95.7 | 4.0 | 0.263 |
| 4- 910 | 4-1690 | 0.591 | 219.0 | -14.7 | 0.27 | 1.303 | 116.5 | 0.754 | 3.077 | 297.2 | 530.2 | 0.757 | --- | 1.13 | 0.249 | 116.5 | 94.4 | 4.0 | 0.255 |
| 4- 910 | 4-1710 | 0.591 | 219.3 | -14.7 | 0.31 | 1.302 | 116.6 | 0.752 | 3.042 | 296.8 | 531.5 | 0.755 | --- | 1.10 | 0.243 | 113.3 | 93.0 | 4.1 | 0.248 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 910 | 4-1730 | 0.592 | 219.6 | -14.7 | 0.35 | 1.301 | 116.7 | 0.750 | 3.012 | 296.4 | 532.8 | 0.753 | --- | 1.08 | 0.237 | 110.1 | 91.5 | 4.1 | 0.242 |
| 4- 910 | 4-1750 | 0.595 | 219.9 | -14.8 | 0.38 | 1.300 | 116.9 | 0.749 | 2.988 | 296.0 | 534.1 | 0.750 | --- | 1.06 | 0.233 | 106.9 | 90.1 | 4.1 | 0.237 |
| 4- 910 | 4-1770 | 0.597 | 220.2 | -14.8 | 0.42 | 1.299 | 117.1 | 0.748 | 2.968 | 295.4 | 535.3 | 0.747 | --- | 1.04 | 0.229 | 103.7 | 88.6 | 4.1 | 0.234 |
| 4- 910 | 4-1790 | 0.601 | 220.6 | -14.8 | 0.46 | 1.298 | 117.3 | 0.748 | 2.951 | 294.9 | 536.4 | 0.743 | --- | 1.02 | 0.226 | 100.5 | 87.1 | 4.1 | 0.230 |
| 4- 910 | 4-1810 | 0.604 | 221.0 | -14.9 | 0.49 | 1.298 | 117.6 | 0.748 | 2.938 | 294.3 | 537.5 | 0.739 | --- | 1.01 | 0.224 | 97.4 | 85.7 | 4.0 | 0.228 |
| 4- 910 | 4-1830 | 0.609 | 221.5 | -15.0 | 0.52 | 1.297 | 117.8 | 0.749 | 2.927 | 293.6 | 538.5 | 0.734 | --- | 0.99 | 0.222 | 94.4 | 84.4 | 4.0 | 0.227 |
| 4- 910 | 4-1850 | 0.614 | 221.9 | -15.1 | 0.56 | 1.297 | 118.1 | 0.750 | 2.919 | 292.9 | 539.5 | 0.729 | --- | 0.98 | 0.221 | 91.4 | 83.1 | 4.0 | 0.226 |
| 4- 910 | 4-1870 | 0.620 | 222.4 | -15.2 | 0.59 | 1.296 | 118.5 | 0.751 | 2.913 | 292.1 | 540.5 | 0.724 | 5.102 | 0.97 | 0.221 | 88.5 | 81.9 | 4.0 | 0.226 |
| 4- 910 | 4-1890 | 0.626 | 222.9 | -15.3 | 0.62 | 1.296 | 118.8 | 0.753 | 2.909 | 291.3 | 541.4 | 0.718 | 5.100 | 0.96 | 0.221 | 85.6 | 80.8 | 4.0 | 0.227 |
| 4- 910 | 4-1910 | 0.632 | 223.5 | -15.4 | 0.65 | 1.296 | 119.2 | 0.755 | 2.906 | 290.5 | 542.3 | 0.712 | 5.101 | 0.95 | 0.221 | 82.9 | 79.9 | 3.9 | 0.228 |
| 4- 910 | 4-1930 | 0.640 | 224.0 | -15.5 | 0.68 | 1.296 | 119.6 | 0.757 | 2.905 | 289.6 | 543.2 | 0.705 | 5.106 | 0.94 | 0.222 | 80.3 | 79.0 | 3.9 | 0.230 |
| 4- 910 | 4-1950 | 0.647 | 224.6 | -15.6 | 0.71 | 1.296 | 120.1 | 0.760 | 2.906 | 288.6 | 544.0 | 0.698 | 5.113 | 0.93 | 0.223 | 77.7 | 78.3 | 3.9 | 0.232 |
| 4- 910 | 4-1970 | 0.655 | 225.2 | -15.8 | 0.74 | 1.296 | 120.5 | 0.763 | 2.907 | 287.7 | 544.7 | 0.690 | 5.124 | 0.92 | 0.225 | 75.3 | 77.6 | 3.9 | 0.235 |
| 4- 910 | 4-1990 | 0.664 | 225.8 | -15.9 | 0.77 | 1.296 | 121.0 | 0.765 | 2.910 | 286.7 | 545.5 | 0.683 | 5.137 | 0.92 | 0.227 | 73.0 | 77.1 | 3.8 | 0.238 |
| 4- 910 | 4-2010 | 0.673 | 226.4 | -16.1 | 0.80 | 1.296 | 121.5 | 0.769 | 2.914 | 285.6 | 546.2 | 0.674 | 5.153 | 0.91 | 0.229 | 70.7 | 76.8 | 3.8 | 0.242 |
| 4- 910 | 4-2030 | 0.682 | 227.0 | -16.2 | 0.82 | 1.297 | 122.1 | 0.772 | 2.918 | 284.5 | 546.8 | 0.665 | 5.171 | 0.91 | 0.231 | 68.5 | 76.5 | 3.8 | 0.246 |
| 4- 910 | 4-2050 | 0.692 | 227.7 | -16.4 | 0.85 | 1.297 | 122.6 | 0.776 | 2.924 | 283.4 | 547.5 | 0.656 | 5.191 | 0.91 | 0.233 | 66.5 | 76.4 | 3.8 | 0.250 |
| 4- 910 | 4-2070 | 0.702 | 228.4 | -16.5 | 0.88 | 1.297 | 123.2 | 0.779 | 2.930 | 282.2 | 548.0 | 0.647 | 5.213 | 0.90 | 0.236 | 64.5 | 76.3 | 3.7 | 0.254 |
| 4- 910 | 4-2090 | 0.713 | 229.0 | -16.7 | 0.91 | 1.297 | 123.8 | 0.783 | 2.937 | 281.0 | 548.6 | 0.637 | 5.237 | 0.90 | 0.239 | 62.6 | 76.4 | 3.7 | 0.259 |
| 4- 910 | 4-2110 | 0.724 | 229.7 | -16.9 | 0.94 | 1.298 | 124.4 | 0.787 | 2.944 | 279.7 | 549.1 | 0.626 | 5.263 | 0.90 | 0.241 | 60.7 | 76.6 | 3.7 | 0.263 |
| 4- 910 | 4-2130 | 0.736 | 230.5 | -17.1 | 0.96 | 1.298 | 125.1 | 0.792 | 2.953 | 278.4 | 549.6 | 0.616 | 5.290 | 0.90 | 0.244 | 59.0 | 76.9 | 3.7 | 0.268 |
| 4- 910 | 4-2150 | 0.748 | 231.2 | -17.2 | 0.99 | 1.299 | 125.7 | 0.796 | 2.961 | 277.1 | 550.1 | 0.604 | 5.318 | 0.90 | 0.247 | 57.2 | 77.3 | 3.7 | 0.274 |
| 4- 910 | 4-2170 | 0.760 | 231.9 | -17.4 | 1.02 | 1.299 | 126.4 | 0.800 | 2.970 | 275.7 | 550.5 | 0.593 | 5.348 | 0.90 | 0.250 | 55.6 | 77.8 | 3.7 | 0.279 |
| 4- 910 | 4-2190 | 0.773 | 232.6 | -17.6 | 1.05 | 1.299 | 127.1 | 0.805 | 2.980 | 274.3 | 550.9 | 0.581 | 5.379 | 0.91 | 0.253 | 54.0 | 78.3 | 3.7 | 0.285 |
| 4- 910 | 4-2210 | 0.786 | 233.4 | -17.7 | 1.08 | 1.300 | 127.8 | 0.810 | 2.990 | 272.9 | 551.3 | 0.568 | 5.412 | 0.91 | 0.256 | 52.5 | 79.0 | 3.6 | 0.290 |
| 4- 910 | 4-2230 | 0.799 | 234.2 | -17.9 | 1.11 | 1.300 | 128.6 | 0.815 | 3.001 | 271.4 | 551.6 | 0.556 | 5.446 | 0.91 | 0.259 | 51.0 | 79.7 | 3.6 | 0.296 |
| 4- 910 | 4-2250 | 0.813 | 234.9 | -18.1 | 1.14 | 1.301 | 129.4 | 0.820 | 3.012 | 269.9 | 551.9 | 0.543 | 5.481 | 0.92 | 0.262 | 49.5 | 80.5 | 3.6 | 0.302 |
| 4- 910 | 4-2270 | 0.828 | 235.7 | -18.3 | 1.17 | 1.301 | 130.2 | 0.825 | 3.023 | 268.4 | 552.2 | 0.529 | 5.517 | 0.93 | 0.265 | 48.1 | 81.3 | 3.6 | 0.308 |
| 4- 910 | 4-2290 | 0.842 | 236.5 | -18.5 | 1.20 | 1.302 | 131.0 | 0.830 | 3.035 | 266.8 | 552.4 | 0.515 | 5.554 | 0.93 | 0.268 | 46.7 | 82.3 | 3.6 | 0.314 |
| 4- 910 | 4-2310 | 0.857 | 237.3 | -18.6 | 1.23 | 1.302 | 131.8 | 0.836 | 3.046 | 265.2 | 552.6 | 0.501 | 5.592 | 0.94 | 0.271 | 45.3 | 83.3 | 3.6 | 0.320 |
| 4- 910 | 4-2330 | 0.873 | 238.1 | -18.8 | 1.26 | 1.303 | 132.7 | 0.841 | 3.059 | 263.6 | 552.8 | 0.487 | 5.631 | 0.95 | 0.274 | 44.0 | 84.3 | 3.6 | 0.326 |
| 4- 910 | 4-2350 | 0.889 | 239.0 | -19.0 | 1.29 | 1.303 | 133.6 | 0.846 | 3.071 | 262.0 | 552.9 | 0.472 | 5.671 | 0.96 | 0.276 | 42.7 | 85.4 | 3.6 | 0.333 |
| 4- 910 | 4-2370 | 0.905 | 239.8 | -19.2 | 1.32 | 1.304 | 134.5 | 0.852 | 3.084 | 260.3 | 553.1 | 0.457 | 5.711 | 0.98 | 0.279 | 41.5 | 86.6 | 3.6 | 0.339 |
| 4- 910 | 4-2390 | 0.922 | 240.6 | -19.3 | 1.36 | 1.304 | 135.4 | 0.858 | 3.097 | 258.5 | 553.2 | 0.441 | 5.753 | 0.99 | 0.282 | 40.2 | 87.8 | 3.6 | 0.346 |
| 4- 910 | 4-2410 | 0.938 | 241.5 | -19.5 | 1.39 | 1.305 | 136.3 | 0.863 | 3.110 | 256.8 | 553.2 | 0.426 | 5.795 | 1.01 | 0.285 | 39.0 | 89.1 | 3.6 | 0.352 |
| 4- 910 | 4-2430 | 0.956 | 242.3 | -19.7 | 1.43 | 1.305 | 137.3 | 0.869 | 3.124 | 255.0 | 553.2 | 0.410 | 5.838 | 1.02 | 0.288 | 37.8 | 90.4 | 3.6 | 0.359 |
| 4- 910 | 4-2450 | 0.973 | 243.2 | -19.8 | 1.47 | 1.306 | 138.3 | 0.875 | 3.138 | 253.2 | 553.3 | 0.394 | 5.882 | 1.04 | 0.291 | 36.6 | 91.7 | 3.6 | 0.365 |
| 4- 910 | 4-2470 | 0.991 | 244.1 | -20.0 | 1.51 | 1.306 | 139.3 | 0.880 | 3.152 | 251.3 | 553.2 | 0.377 | 5.926 | 1.06 | 0.293 | 35.4 | 93.1 | 3.5 | 0.372 |
| 4- 910 | 4-2490 | 1.010 | 244.9 | -20.1 | 1.55 | 1.307 | 140.3 | 0.886 | 3.166 | 249.4 | 553.2 | 0.361 | 5.971 | 1.08 | 0.296 | 34.2 | 94.5 | 3.5 | 0.379 |
| 4- 910 | 4-2510 | 1.028 | 245.8 | -20.3 | 1.59 | 1.307 | 141.4 | 0.892 | 3.180 | 247.5 | 553.1 | 0.344 | 6.016 | 1.11 | 0.299 | 33.0 | 96.0 | 3.5 | 0.386 |
| 4- 920 | 4-1340 | 0.743 | 225.5 | -20.3 | -1.77 | 1.433 | 120.0 | 1.01 | 939.988 | 300.6 | 494.7 | 0.742 | --- | 2.94 | 0.635 | 158.6 | 106.3 | 4.0 | 0.643 |
| 4- 920 | 4-1360 | 0.713 | 225.1 | -19.7 | -1.46 | 1.415 | 119.0 | 0.98 | 037.339 | 301.4 | 497.1 | 0.752 | --- | 2.65 | 0.593 | 157.1 | 106.5 | 4.0 | 0.601 |
| 4- 920 | 4-1380 | 0.686 | 224.7 | -19.2 | -1.21 | 1.399 | 118.1 | 0.94 | 614.114 | 302.1 | 499.5 | 0.762 | --- | 2.41 | 0.555 | 155.4 | 106.6 | 3.9 | 0.562 |
| 4- 920 | 4-1400 | 0.662 | 224.3 | -18.8 | -1.00 | 1.385 | 117.3 | 0.916 | 9.219 | 302.8 | 501.8 | 0.770 | --- | 2.21 | 0.521 | 153.7 | 106.7 | 3.9 | 0.527 |
| 4- 920 | 4-1420 | 0.641 | 224.0 | -18.4 | -0.83 | 1.374 | 116.5 | 0.891 | 7.105 | 303.4 | 504.0 | 0.778 | --- | 2.05 | 0.489 | 151.9 | 106.7 | 3.9 | 0.495 |
| 4- 920 | 4-1440 | 0.623 | 223.7 | -18.1 | -0.67 | 1.364 | 115.9 | 0.868 | 5.935 | 304.0 | 506.2 | 0.784 | --- | 1.90 | 0.460 | 150.0 | 106.6 | 3.9 | 0.466 |
| 4- 920 | 4-1460 | 0.607 | 223.4 | -17.7 | -0.54 | 1.355 | 115.3 | 0.848 | 5.196 | 304.5 | 508.4 | 0.790 | --- | 1.78 | 0.434 | 148.0 | 106.4 | 3.9 | 0.439 |
| 4- 920 | 4-1480 | 0.593 | 223.1 | -17.4 | -0.42 | 1.347 | 114.8 | 0.831 | 4.691 | 304.9 | 510.4 | 0.795 | --- | 1.67 | 0.410 | 145.9 | 106.1 | 3.9 | 0.415 |
| 4- 920 | 4-1500 | 0.581 | 222.9 | -17.2 | -0.32 | 1.340 | 114.3 | 0.815 | 4.326 | 305.3 | 512.5 | 0.799 | --- | 1.58 | 0.388 | 143.7 | 105.8 | 3.9 | 0.392 |
| 4- 920 | 4-1520 | 0.571 | 222.8 | -16.9 | -0.22 | 1.335 | 114.0 | 0.802 | 4.053 | 305.6 | 514.4 | 0.803 | --- | 1.50 | 0.369 | 141.4 | 105.3 | 3.9 | 0.371 |
| 4- 920 | 4-1540 | 0.562 | 222.7 | -16.7 | -0.14 | 1.329 | 113.6 | 0.790 | 3.841 | 305.9 | 516.3 | 0.806 | --- | 1.42 | 0.350 | 139.0 | 104.7 | 3.9 | 0.352 |
| 4- 920 | 4-1560 | 0.554 | 222.6 | -16.5 | -0.06 | 1.325 | 113.4 | 0.780 | 3.675 | 306.1 | 518.2 | 0.809 | --- | 1.36 | 0.334 | 136.4 | 104.1 | 3.9 | 0.335 |
| 4- 920 | 4-1580 | 0.548 | 222.6 | -16.3 | 0.01 | 1.321 | 113.2 | 0.771 | 3.541 | 306.2 | 519.9 | 0.810 | --- | 1.30 | 0.319 | 133.8 | 103.3 | 3.9 | 0.319 |
| 4- 920 | 4-1600 | 0.543 | 222.6 | -16.2 | 0.07 | 1.318 | 113.0 | 0.763 | 3.432 | 306.2 | 521.6 | 0.812 | --- | 1.24 | 0.306 | 131.1 | 102.5 | 3.9 | 0.305 |
| 4- 920 | 4-1620 | 0.539 | 222.7 | -16.1 | 0.13 | 1.315 | 112.9 | 0.757 | 3.342 | 306.2 | 523.3 | 0.813 | --- | 1.20 | 0.293 | 128.3 | 101.5 | 4.0 | 0.291 |
| 4- 920 | 4-1640 | 0.536 | 222.8 | -16.0 | 0.19 | 1.312 | 112.8 | 0.751 | 3.268 | 306.2 | 524.9 | 0.813 | --- | 1.15 | 0.283 | 125.5 | 100.4 | 4.0 | 0.280 |
| 4- 920 | 4-1660 | 0.534 | 222.9 | -15.9 | 0.24 | 1.310 | 112.8 | 0.747 | 3.207 | 306.0 | 526.5 | 0.813 | --- | 1.11 | 0.273 | 122.5 | 99.2 | 4.0 | 0.269 |
| 4- 920 | 4-1680 | 0.532 | 223.1 | -15.8 | 0.29 | 1.308 | 112.8 | 0.743 | 3.155 | 305.9 | 527.9 | 0.812 | --- | 1.08 | 0.265 | 119.5 | 98.0 | 4.0 | 0.260 |
| 4- 920 | 4-1700 | 0.532 | 223.3 | -15.8 | 0.34 | 1.306 | 112.8 | 0.739 | 3.112 | 305.6 | 529.4 | 0.811 | --- | 1.04 | 0.257 | 116.5 | 96.7 | 4.0 | 0.251 |
| 4- 920 | 4-1720 | 0.532 | 223.6 | -15.7 | 0.38 | 1.305 | 112.9 | 0.737 | 3.076 | 305.3 | 530.8 | 0.810 | --- | 1.01 | 0.251 | 113.4 | 95.3 | 4.0 | 0.244 |
| 4- 920 | 4-1740 | 0.533 | 223.9 | -15.7 | 0.42 | 1.304 | 113.0 | 0.735 | 3.045 | 304.9 | 532.1 | 0.808 | --- | 0.98 | 0.245 | 110.4 | 93.9 | 4.0 | 0.238 |
| 4- 920 | 4-1760 | 0.534 | 224.2 | -15.8 | 0.46 | 1.303 | 113.1 | 0.733 | 3.020 | 304.5 | 533.4 | 0.806 | --- | 0.96 | 0.241 | 107.3 | 92.4 | 4.0 | 0.233 |
| 4- 920 | 4-1780 | 0.537 | 224.6 | -15.8 | 0.50 | 1.302 | 113.3 | 0.732 | 2.999 | 304.1 | 534.6 | 0.803 | --- | 0.93 | 0.237 | 104.3 | 91.0 | 4.0 | 0.228 |
| 4- 920 | 4-1800 | 0.539 | 225.0 | -15.8 | 0.53 | 1.301 | 113.5 | 0.732 | 2.982 | 303.5 | 535.8 | 0.800 | --- | 0.91 | 0.234 | 101.3 | 89.5 | 4.0 | 0.225 |
| 4- 920 | 4-1820 | 0.543 | 225.4 | -15.9 | 0.56 | 1.300 | 113.7 | 0.732 | 2.968 | 303.0 | 536.9 | 0.796 | --- | 0.89 | 0.232 | 98.3 | 88.1 | 4.0 | 0.222 |
| 4- 920 | 4-1840 | 0.547 | 225.9 | -16.0 | 0.60 | 1.300 | 114.0 | 0.732 | 2.956 | 302.3 | 538.0 | 0.792 | --- | 0.87 | 0.230 | 95.4 | 86.7 | 4.0 | 0.221 |
| 4- 920 | 4-1860 | 0.551 | 226.4 | -16.0 | 0.63 | 1.299 | 114.2 | 0.733 | 2.947 | 301.7 | 539.1 | 0.788 | --- | 0.86 | 0.229 | 92.5 | 85.4 | 3.9 | 0.219 |
| 4- 920 | 4-1880 | 0.556 | 226.9 | -16.1 | 0.66 | 1.299 | 114.6 | 0.734 | 2.941 | 300.9 | 540.1 | 0.784 | 5.098 | 0.84 | 0.229 | 89.8 | 84.2 | 3.9 | 0.219 |
| 4- 920 | 4-1900 | 0.562 | 227.5 | -16.2 | 0.69 | 1.299 | 114.9 | 0.735 | 2.936 | 300.2 | 541.1 | 0.779 | 5.094 | 0.82 | 0.229 | 87.1 | 83.1 | 3.9 | 0.219 |
| 4- 920 | 4-1920 | 0.568 | 228.0 | -16.3 | 0.72 | 1.299 | 115.2 | 0.736 | 2.933 | 299.4 | 542.0 | 0.773 | 5.093 | 0.81 | 0.229 | 84.5 | 82.0 | 3.9 | 0.220 |
| 4- 920 | 4-1940 | 0.574 | 228.6 | -16.5 | 0.74 | 1.299 | 115.6 | 0.738 | 2.932 | 298.5 | 542.9 | 0.768 | 5.096 | 0.80 | 0.230 | 82.0 | 81.1 | 3.9 | 0.222 |
| 4- 920 | 4-1960 | 0.581 | 229.2 | -16.6 | 0.77 | 1.299 | 116.0 | 0.740 | 2.932 | 297.6 | 543.7 | 0.761 | 5.102 | 0.79 | 0.231 | 79.6 | 80.3 | 3.8 | 0.223 |
| 4- 920 | 4-1980 | 0.588 | 229.9 | -16.7 | 0.80 | 1.299 | 116.4 | 0.743 | 2.933 | 296.7 | 544.5 | 0.755 | 5.111 | 0.78 | 0.232 | 77.3 | 79.6 | 3.8 | 0.226 |
| 4- 920 | 4-2000 | 0.596 | 230.5 | -16.9 | 0.82 | 1.299 | 116.9 | 0.745 | 2.935 | 295.7 | 545.3 | 0.748 | 5.123 | 0.77 | 0.234 | 75.0 | 79.0 | 3.8 | 0.229 |
| 4- 920 | 4-2020 | 0.604 | 231.2 | -17.0 | 0.85 | 1.299 | 117.4 | 0.748 | 2.939 | 294.7 | 546.1 | 0.741 | 5.137 | 0.76 | 0.236 | 72.9 | 78.6 | 3.7 | 0.232 |
| 4- 920 | 4-2040 | 0.613 | 231.9 | -17.2 | 0.87 | 1.299 | 117.9 | 0.751 | 2.943 | 293.7 | 546.8 | 0.733 | 5.153 | 0.75 | 0.238 | 70.8 | 78.2 | 3.7 | 0.235 |
| 4- 920 | 4-2060 | 0.622 | 232.6 | -17.3 | 0.89 | 1.299 | 118.4 | 0.754 | 2.948 | 292.6 | 547.4 | 0.725 | 5.171 | 0.75 | 0.240 | 68.9 | 78.0 | 3.7 | 0.239 |
| 4- 920 | 4-2080 | 0.631 | 233.3 | -17.5 | 0.92 | 1.300 | 118.9 | 0.757 | 2.954 | 291.4 | 548.1 | 0.717 | 5.191 | 0.74 | 0.242 | 67.0 | 77.9 | 3.7 | 0.243 |
| 4- 920 | 4-2100 | 0.641 | 234.0 | -17.6 | 0.94 | 1.300 | 119.5 | 0.761 | 2.961 | 290.3 | 548.7 | 0.708 | 5.213 | 0.74 | 0.245 | 65.1 | 77.9 | 3.7 | 0.247 |
| 4- 920 | 4-2120 | 0.651 | 234.8 | -17.8 | 0.96 | 1.300 | 120.0 | 0.765 | 2.968 | 289.1 | 549.3 | 0.699 | 5.237 | 0.73 | 0.247 | 63.4 | 78.0 | 3.6 | 0.251 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 920 | 4-214C | 0.662 | 235.5 | -18.0 | 0.99 | 1.301 | 120.6 | 0.768 | 2.976 | 287.8 | 549.8 | 0.689 | 5.262 | 0.73 | 0.250 | 61.7 | 78.3 | 3.6 | 0.256 |
| 4- 920 | 4-216C | 0.673 | 236.3 | -18.1 | 1.01 | 1.301 | 121.3 | 0.772 | 2.984 | 286.6 | 550.3 | 0.679 | 5.289 | 0.72 | 0.253 | 60.0 | 78.6 | 3.6 | 0.261 |
| 4- 920 | 4-218C | 0.684 | 237.1 | -18.3 | 1.03 | 1.301 | 121.9 | 0.777 | 2.993 | 285.2 | 550.8 | 0.669 | 5.317 | 0.72 | 0.255 | 58.5 | 79.0 | 3.6 | 0.266 |
| 4- 920 | 4-220C | 0.696 | 237.8 | -18.5 | 1.06 | 1.302 | 122.5 | 0.781 | 3.002 | 283.9 | 551.2 | 0.658 | 5.347 | 0.72 | 0.258 | 56.9 | 79.5 | 3.6 | 0.271 |
| 4- 920 | 4-222C | 0.708 | 238.6 | -18.6 | 1.08 | 1.302 | 123.2 | 0.785 | 3.012 | 282.5 | 551.7 | 0.647 | 5.378 | 0.72 | 0.261 | 55.5 | 80.1 | 3.6 | 0.276 |
| 4- 920 | 4-224C | 0.721 | 239.4 | -18.8 | 1.10 | 1.303 | 123.9 | 0.790 | 3.022 | 281.1 | 552.1 | 0.635 | 5.410 | 0.72 | 0.264 | 54.0 | 80.7 | 3.6 | 0.281 |
| 4- 920 | 4-226C | 0.734 | 240.3 | -19.0 | 1.12 | 1.303 | 124.6 | 0.795 | 3.033 | 279.7 | 552.4 | 0.623 | 5.443 | 0.72 | 0.266 | 52.7 | 81.4 | 3.6 | 0.287 |
| 4- 920 | 4-228C | 0.747 | 241.1 | -19.1 | 1.15 | 1.304 | 125.4 | 0.799 | 3.044 | 278.2 | 552.8 | 0.611 | 5.477 | 0.72 | 0.269 | 51.3 | 82.2 | 3.6 | 0.292 |
| 4- 920 | 4-230C | 0.761 | 241.9 | -19.3 | 1.17 | 1.304 | 126.1 | 0.804 | 3.055 | 276.7 | 553.1 | 0.598 | 5.513 | 0.72 | 0.272 | 50.0 | 83.1 | 3.6 | 0.298 |
| 4- 920 | 4-232C | 0.775 | 242.7 | -19.4 | 1.19 | 1.305 | 126.9 | 0.809 | 3.067 | 275.2 | 553.3 | 0.585 | 5.549 | 0.73 | 0.275 | 48.7 | 84.0 | 3.5 | 0.304 |
| 4- 920 | 4-234C | 0.789 | 243.6 | -19.6 | 1.22 | 1.305 | 127.7 | 0.814 | 3.079 | 273.6 | 553.6 | 0.571 | 5.586 | 0.73 | 0.278 | 47.5 | 85.0 | 3.5 | 0.310 |
| 4- 920 | 4-236C | 0.804 | 244.4 | -19.8 | 1.24 | 1.305 | 128.5 | 0.820 | 3.091 | 272.0 | 553.8 | 0.558 | 5.625 | 0.74 | 0.280 | 46.2 | 86.1 | 3.5 | 0.315 |
| 4- 920 | 4-238C | 0.819 | 245.3 | -19.9 | 1.26 | 1.306 | 129.4 | 0.825 | 3.104 | 270.4 | 554.0 | 0.543 | 5.664 | 0.74 | 0.283 | 45.0 | 87.2 | 3.5 | 0.321 |
| 4- 920 | 4-240C | 0.834 | 246.2 | -20.1 | 1.29 | 1.306 | 130.2 | 0.830 | 3.116 | 268.7 | 554.1 | 0.529 | 5.704 | 0.75 | 0.286 | 43.8 | 88.3 | 3.5 | 0.328 |
| 4- 920 | 4-242C | 0.850 | 247.0 | -20.2 | 1.31 | 1.307 | 131.1 | 0.836 | 3.129 | 267.0 | 554.3 | 0.514 | 5.745 | 0.75 | 0.289 | 42.7 | 89.5 | 3.5 | 0.334 |
| 4- 920 | 4-244C | 0.866 | 247.9 | -20.4 | 1.34 | 1.308 | 132.0 | 0.841 | 3.142 | 265.3 | 554.4 | 0.499 | 5.786 | 0.76 | 0.291 | 41.5 | 90.8 | 3.5 | 0.340 |
| 4- 920 | 4-246C | 0.883 | 248.8 | -20.5 | 1.36 | 1.308 | 132.9 | 0.847 | 3.156 | 263.6 | 554.5 | 0.483 | 5.828 | 0.77 | 0.294 | 40.4 | 92.1 | 3.5 | 0.346 |
| 4- 920 | 4-248C | 0.900 | 249.7 | -20.7 | 1.39 | 1.309 | 133.9 | 0.852 | 3.170 | 261.8 | 554.5 | 0.468 | 5.871 | 0.78 | 0.296 | 39.3 | 93.4 | 3.5 | 0.352 |
| 4- 920 | 4-250C | 0.917 | 250.6 | -20.8 | 1.42 | 1.309 | 134.8 | 0.858 | 3.183 | 260.0 | 554.5 | 0.452 | 5.915 | 0.79 | 0.299 | 38.2 | 94.8 | 3.5 | 0.359 |
| 4- 920 | 4-252C | 0.935 | 251.5 | -20.9 | 1.45 | 1.310 | 135.8 | 0.864 | 3.197 | 258.1 | 554.5 | 0.435 | 5.959 | 0.80 | 0.301 | 37.1 | 96.2 | 3.4 | 0.365 |
| 4- 930 | 4-135C | 0.690 | 228.7 | -27.6 | -4.92 | 1.434 | 116.2 | 1.02137.596 | | 308.1 | 493.0 | 0.795 | --- | 6.14 | 0.636 | 157.9 | 107.6 | 5.2 | 0.639 |
| 4- 930 | 4-137C | 0.656 | 228.6 | -24.9 | -3.39 | 1.416 | 115.2 | 0.98040.155 | | 309.0 | 495.5 | 0.804 | --- | 4.61 | 0.595 | 156.3 | 107.9 | 4.8 | 0.597 |
| 4- 930 | 4-139C | 0.629 | 228.3 | -23.1 | -2.46 | 1.401 | 114.3 | 0.94414.549 | | 309.8 | 497.9 | 0.813 | --- | 3.70 | 0.557 | 154.7 | 108.1 | 4.5 | 0.559 |
| 4- 930 | 4-141C | 0.605 | 228.0 | -21.9 | -1.84 | 1.387 | 113.5 | 0.913 | 9.419 | 310.6 | 500.3 | 0.821 | --- | 3.08 | 0.523 | 152.9 | 108.2 | 4.3 | 0.524 |
| 4- 930 | 4-143C | 0.584 | 227.7 | -20.9 | -1.39 | 1.376 | 112.8 | 0.886 | 7.232 | 311.3 | 502.6 | 0.828 | --- | 2.64 | 0.492 | 151.1 | 108.2 | 4.2 | 0.492 |
| 4- 930 | 4-145C | 0.566 | 227.4 | -20.2 | -1.06 | 1.366 | 112.1 | 0.862 | 6.028 | 311.9 | 504.8 | 0.834 | --- | 2.32 | 0.464 | 149.2 | 108.1 | 4.1 | 0.463 |
| 4- 930 | 4-147C | 0.550 | 227.1 | -19.5 | -0.80 | 1.357 | 111.6 | 0.841 | 5.270 | 312.5 | 507.1 | 0.839 | --- | 2.06 | 0.438 | 147.2 | 107.9 | 4.0 | 0.436 |
| 4- 930 | 4-149C | 0.537 | 226.8 | -19.0 | -0.59 | 1.349 | 111.1 | 0.823 | 4.753 | 313.0 | 509.2 | 0.844 | --- | 1.86 | 0.414 | 145.1 | 107.7 | 4.0 | 0.412 |
| 4- 930 | 4-151C | 0.525 | 226.6 | -18.5 | -0.41 | 1.343 | 110.6 | 0.806 | 4.380 | 313.5 | 511.3 | 0.848 | --- | 1.69 | 0.392 | 142.9 | 107.4 | 4.0 | 0.389 |
| 4- 930 | 4-153C | 0.514 | 226.4 | -18.1 | -0.27 | 1.337 | 110.3 | 0.792 | 4.101 | 313.8 | 513.3 | 0.851 | --- | 1.55 | 0.373 | 140.6 | 106.9 | 3.9 | 0.368 |
| 4- 930 | 4-155C | 0.506 | 226.2 | -17.8 | -0.14 | 1.332 | 109.9 | 0.780 | 3.885 | 314.1 | 515.3 | 0.854 | --- | 1.44 | 0.355 | 138.3 | 106.4 | 3.9 | 0.349 |
| 4- 930 | 4-157C | 0.498 | 226.1 | -17.5 | -0.04 | 1.327 | 109.7 | 0.770 | 3.715 | 314.4 | 517.2 | 0.856 | --- | 1.34 | 0.339 | 135.8 | 105.8 | 3.9 | 0.332 |
| 4- 930 | 4-159C | 0.492 | 226.1 | -17.2 | 0.06 | 1.323 | 109.5 | 0.760 | 3.579 | 314.6 | 519.0 | 0.858 | --- | 1.25 | 0.324 | 133.2 | 105.1 | 3.9 | 0.316 |
| 4- 930 | 4-161C | 0.487 | 226.1 | -17.0 | 0.14 | 1.320 | 109.3 | 0.752 | 3.468 | 314.7 | 520.7 | 0.859 | --- | 1.18 | 0.311 | 130.6 | 104.2 | 3.9 | 0.302 |
| 4- 930 | 4-163C | 0.483 | 226.1 | -16.8 | 0.21 | 1.317 | 109.2 | 0.745 | 3.377 | 314.7 | 522.5 | 0.860 | --- | 1.11 | 0.299 | 127.8 | 103.3 | 3.9 | 0.288 |
| 4- 930 | 4-165C | 0.480 | 226.2 | -16.6 | 0.28 | 1.314 | 109.1 | 0.739 | 3.301 | 314.7 | 524.1 | 0.861 | --- | 1.05 | 0.288 | 125.0 | 102.3 | 3.9 | 0.276 |
| 4- 930 | 4-167C | 0.477 | 226.3 | -16.5 | 0.34 | 1.312 | 109.0 | 0.734 | 3.238 | 314.6 | 525.7 | 0.861 | --- | 1.00 | 0.279 | 122.2 | 101.2 | 3.9 | 0.266 |
| 4- 930 | 4-169C | 0.476 | 226.5 | -16.4 | 0.39 | 1.310 | 109.0 | 0.730 | 3.186 | 314.4 | 527.2 | 0.860 | --- | 0.96 | 0.271 | 119.3 | 99.9 | 3.9 | 0.256 |
| 4- 930 | 4-171C | 0.475 | 226.8 | -16.3 | 0.44 | 1.309 | 109.1 | 0.726 | 3.142 | 314.2 | 528.7 | 0.860 | --- | 0.91 | 0.264 | 116.3 | 98.7 | 3.9 | 0.248 |
| 4- 930 | 4-173C | 0.475 | 227.0 | -16.3 | 0.49 | 1.307 | 109.1 | 0.724 | 3.105 | 314.0 | 530.1 | 0.858 | --- | 0.88 | 0.257 | 113.4 | 97.3 | 3.9 | 0.240 |
| 4- 930 | 4-175C | 0.476 | 227.4 | -16.3 | 0.53 | 1.306 | 109.2 | 0.721 | 3.074 | 313.6 | 531.5 | 0.857 | --- | 0.84 | 0.252 | 110.4 | 95.9 | 3.9 | 0.234 |
| 4- 930 | 4-177C | 0.477 | 227.7 | -16.3 | 0.57 | 1.305 | 109.3 | 0.719 | 3.048 | 313.2 | 532.8 | 0.855 | --- | 0.81 | 0.248 | 107.5 | 94.5 | 3.9 | 0.228 |
| 4- 930 | 4-179C | 0.479 | 228.1 | -16.3 | 0.61 | 1.304 | 109.5 | 0.718 | 3.026 | 312.8 | 534.1 | 0.853 | --- | 0.78 | 0.244 | 104.6 | 93.0 | 3.9 | 0.224 |
| 4- 930 | 4-181C | 0.481 | 228.6 | -16.3 | 0.64 | 1.303 | 109.7 | 0.717 | 3.008 | 312.3 | 535.3 | 0.850 | --- | 0.76 | 0.241 | 101.7 | 91.6 | 3.9 | 0.220 |
| 4- 930 | 4-183C | 0.484 | 229.1 | -16.4 | 0.68 | 1.303 | 109.9 | 0.717 | 2.994 | 311.8 | 536.5 | 0.848 | --- | 0.74 | 0.239 | 98.8 | 90.2 | 3.9 | 0.217 |
| 4- 930 | 4-185C | 0.487 | 229.6 | -16.4 | 0.71 | 1.302 | 110.1 | 0.717 | 2.982 | 311.2 | 537.6 | 0.844 | --- | 0.71 | 0.237 | 96.1 | 88.8 | 3.8 | 0.215 |
| 4- 930 | 4-187C | 0.491 | 230.1 | -16.5 | 0.73 | 1.302 | 110.4 | 0.717 | 2.973 | 310.6 | 538.7 | 0.841 | --- | 0.70 | 0.236 | 93.3 | 87.5 | 3.8 | 0.214 |
| 4- 930 | 4-189C | 0.496 | 230.7 | -16.6 | 0.76 | 1.301 | 110.7 | 0.718 | 2.966 | 309.9 | 539.7 | 0.837 | --- | 0.68 | 0.235 | 90.7 | 86.2 | 3.8 | 0.213 |
| 4- 930 | 4-191C | 0.501 | 231.3 | -16.7 | 0.79 | 1.301 | 111.0 | 0.719 | 2.961 | 309.1 | 540.7 | 0.833 | 5.089 | 0.66 | 0.235 | 88.2 | 85.0 | 3.8 | 0.213 |
| 4- 930 | 4-193C | 0.506 | 231.9 | -16.8 | 0.81 | 1.301 | 111.3 | 0.720 | 2.958 | 308.4 | 541.7 | 0.828 | 5.087 | 0.65 | 0.236 | 85.7 | 84.0 | 3.8 | 0.213 |
| 4- 930 | 4-195C | 0.512 | 232.6 | -17.0 | 0.84 | 1.301 | 111.7 | 0.721 | 2.956 | 307.5 | 542.6 | 0.824 | 5.089 | 0.63 | 0.236 | 83.3 | 83.0 | 3.7 | 0.215 |
| 4- 930 | 4-197C | 0.518 | 233.3 | -17.1 | 0.86 | 1.301 | 112.0 | 0.723 | 2.956 | 306.7 | 543.5 | 0.818 | 5.093 | 0.62 | 0.237 | 81.0 | 82.1 | 3.7 | 0.216 |
| 4- 930 | 4-199C | 0.524 | 234.0 | -17.2 | 0.88 | 1.301 | 112.4 | 0.725 | 2.957 | 305.8 | 544.3 | 0.813 | 5.101 | 0.61 | 0.238 | 78.8 | 81.4 | 3.7 | 0.218 |
| 4- 930 | 4-201C | 0.531 | 234.7 | -17.4 | 0.90 | 1.301 | 112.9 | 0.727 | 2.959 | 304.8 | 545.2 | 0.807 | 5.111 | 0.60 | 0.240 | 76.7 | 80.8 | 3.7 | 0.220 |
| 4- 930 | 4-203C | 0.539 | 235.4 | -17.5 | 0.92 | 1.301 | 113.3 | 0.730 | 2.962 | 303.9 | 545.9 | 0.801 | 5.123 | 0.59 | 0.242 | 74.6 | 80.3 | 3.6 | 0.223 |
| 4- 930 | 4-205C | 0.547 | 236.2 | -17.7 | 0.94 | 1.301 | 113.8 | 0.732 | 2.966 | 302.8 | 546.7 | 0.794 | 5.138 | 0.58 | 0.244 | 72.6 | 79.9 | 3.6 | 0.226 |
| 4- 930 | 4-207C | 0.555 | 236.9 | -17.9 | 0.96 | 1.302 | 114.2 | 0.735 | 2.971 | 301.8 | 547.4 | 0.787 | 5.155 | 0.57 | 0.246 | 70.8 | 79.6 | 3.6 | 0.229 |
| 4- 930 | 4-209C | 0.563 | 237.7 | -18.0 | 0.98 | 1.302 | 114.7 | 0.738 | 2.977 | 300.7 | 548.1 | 0.780 | 5.173 | 0.56 | 0.248 | 68.9 | 79.4 | 3.6 | 0.233 |
| 4- 930 | 4-211C | 0.572 | 238.5 | -18.2 | 1.00 | 1.302 | 115.3 | 0.741 | 2.983 | 299.6 | 548.7 | 0.773 | 5.194 | 0.55 | 0.250 | 67.2 | 79.4 | 3.6 | 0.237 |
| 4- 930 | 4-213C | 0.582 | 239.3 | -18.4 | 1.02 | 1.302 | 115.8 | 0.744 | 2.990 | 298.4 | 549.3 | 0.765 | 5.216 | 0.55 | 0.253 | 65.5 | 79.4 | 3.5 | 0.241 |
| 4- 930 | 4-215C | 0.591 | 240.1 | -18.5 | 1.04 | 1.303 | 116.4 | 0.748 | 2.998 | 297.2 | 549.9 | 0.756 | 5.240 | 0.54 | 0.255 | 63.9 | 79.6 | 3.5 | 0.245 |
| 4- 930 | 4-217C | 0.602 | 241.0 | -18.7 | 1.06 | 1.303 | 116.9 | 0.751 | 3.006 | 296.0 | 550.5 | 0.747 | 5.265 | 0.54 | 0.258 | 62.4 | 79.9 | 3.5 | 0.250 |
| 4- 930 | 4-219C | 0.612 | 241.8 | -18.9 | 1.07 | 1.304 | 117.5 | 0.755 | 3.015 | 294.7 | 551.0 | 0.738 | 5.291 | 0.53 | 0.260 | 60.9 | 80.2 | 3.5 | 0.254 |
| 4- 930 | 4-221C | 0.623 | 242.7 | -19.0 | 1.09 | 1.304 | 118.1 | 0.759 | 3.024 | 293.4 | 551.5 | 0.729 | 5.319 | 0.53 | 0.263 | 59.4 | 80.6 | 3.5 | 0.259 |
| 4- 930 | 4-223C | 0.634 | 243.5 | -19.2 | 1.11 | 1.304 | 118.8 | 0.763 | 3.034 | 292.1 | 552.0 | 0.719 | 5.348 | 0.53 | 0.266 | 58.0 | 81.2 | 3.5 | 0.264 |
| 4- 930 | 4-225C | 0.646 | 244.4 | -19.4 | 1.12 | 1.305 | 119.4 | 0.767 | 3.044 | 290.7 | 552.4 | 0.709 | 5.379 | 0.52 | 0.268 | 56.6 | 81.8 | 3.5 | 0.269 |
| 4- 930 | 4-227C | 0.658 | 245.2 | -19.5 | 1.14 | 1.305 | 120.1 | 0.771 | 3.054 | 289.3 | 552.8 | 0.698 | 5.410 | 0.52 | 0.271 | 55.3 | 82.4 | 3.5 | 0.274 |
| 4- 930 | 4-229C | 0.670 | 246.1 | -19.7 | 1.16 | 1.306 | 120.8 | 0.776 | 3.065 | 287.9 | 553.2 | 0.687 | 5.443 | 0.52 | 0.274 | 54.0 | 83.2 | 3.5 | 0.279 |
| 4- 930 | 4-231C | 0.683 | 247.0 | -19.8 | 1.17 | 1.306 | 121.5 | 0.780 | 3.076 | 286.5 | 553.6 | 0.676 | 5.477 | 0.52 | 0.276 | 52.8 | 84.0 | 3.5 | 0.284 |
| 4- 930 | 4-233C | 0.696 | 247.9 | -20.0 | 1.19 | 1.306 | 122.2 | 0.785 | 3.087 | 285.0 | 553.9 | 0.664 | 5.511 | 0.52 | 0.279 | 51.6 | 84.9 | 3.4 | 0.290 |
| 4- 930 | 4-235C | 0.709 | 248.8 | -20.1 | 1.21 | 1.307 | 123.0 | 0.790 | 3.099 | 283.5 | 554.2 | 0.652 | 5.547 | 0.52 | 0.282 | 50.4 | 85.8 | 3.4 | 0.295 |
| 4- 930 | 4-237C | 0.723 | 249.7 | -20.3 | 1.22 | 1.307 | 123.7 | 0.795 | 3.111 | 281.9 | 554.5 | 0.639 | 5.583 | 0.52 | 0.284 | 49.2 | 86.8 | 3.4 | 0.300 |
| 4- 930 | 4-239C | 0.737 | 250.6 | -20.4 | 1.24 | 1.308 | 124.5 | 0.800 | 3.123 | 280.4 | 554.7 | 0.626 | 5.621 | 0.52 | 0.287 | 48.1 | 87.8 | 3.4 | 0.306 |
| 4- 930 | 4-241C | 0.751 | 251.5 | -20.6 | 1.25 | 1.308 | 125.3 | 0.805 | 3.136 | 278.8 | 555.0 | 0.613 | 5.659 | 0.52 | 0.290 | 47.0 | 88.9 | 3.4 | 0.312 |
| 4- 930 | 4-243C | 0.766 | 252.4 | -20.7 | 1.27 | 1.309 | 126.1 | 0.810 | 3.149 | 277.1 | 555.2 | 0.599 | 5.698 | 0.52 | 0.292 | 45.9 | 90.1 | 3.4 | 0.317 |
| 4- 930 | 4-245C | 0.781 | 253.3 | -20.8 | 1.29 | 1.309 | 127.0 | 0.815 | 3.162 | 275.5 | 555.3 | 0.585 | 5.738 | 0.53 | 0.295 | 44.8 | 91.3 | 3.4 | 0.323 |
| 4- 930 | 4-247C | 0.797 | 254.3 | -21.0 | 1.31 | 1.310 | 127.8 | 0.820 | 3.175 | 273.8 | 555.5 | 0.570 | 5.779 | 0.53 | 0.297 | 43.7 | 92.5 | 3.4 | 0.329 |
| 4- 930 | 4-249C | 0.812 | 255.2 | -21.1 | 1.32 | 1.310 | 128.7 | 0.826 | 3.188 | 272.1 | 555.6 | 0.556 | 5.821 | 0.53 | 0.300 | 42.7 | 93.8 | 3.4 | 0.335 |
| 4- 930 | 4-251C | 0.829 | 256.1 | -21.2 | 1.34 | 1.311 | 129.6 | 0.831 | 3.202 | 270.4 | 555.7 | 0.541 | 5.863 | 0.54 | 0.302 | 41.7 | 95.1 | 3.4 | 0.341 |
| 4- 930 | 4-253C | 0.845 | 257.1 | -21.3 | 1.36 | 1.311 | 130.5 | 0.837 | 3.215 | 268.6 | 555.7 | 0.525 | 5.906 | 0.54 | 0.304 | 40.6 | 96.5 | 3.4 | 0.347 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 940 | 4-1360 | 0.630 | 237.3 | -9.2 | 5.01 | 1.435 | 112.2 | 1.02239 | 271.316.1 | 491.5 | 0.845 | --- | -3.75 | 0.636 | 157.1 | 109.0 | 1.4 | 0.633 |
| 4- 940 | 4-1380 | 0.610 | 238.1 | -4.4 | 7.06 | 1.417 | 111.3 | 0.97839 | 235.317.0 | 494.1 | 0.853 | --- | -5.79 | 0.595 | 155.5 | 109.1 | 0.5 | 0.592 |
| 4- 940 | 4-1400 | 0.633 | 242.9 | 9.5 | 13.97 | 1.401 | 110.4 | 0.94114 | 523.317.9 | 496.6 | 0.861 | --- | -12.70 | 0.557 | 153.9 | 108.7 | -2.6 | 0.558 |
| 4- 940 | 4-1420 | 1.016 | 304.0 | -85.4 | -43.67 | 1.388 | 109.7 | 0.908 | 9.443 | 318.6 | 499.0 | 0.867 | --- | 44.95 | 0.524 | 152.2 | 102.7 | 20.4 | 0.575 |
| 4- 940 | 4-1440 | 0.548 | 227.3 | -36.6 | -7.53 | 1.377 | 108.9 | 0.880 | 7.263 | 319.5 | 501.4 | 0.873 | --- | 8.81 | 0.493 | 150.4 | 109.3 | 7.3 | 0.490 |
| 4- 940 | 4-1460 | 0.514 | 228.7 | -27.3 | -3.52 | 1.367 | 108.3 | 0.855 | 6.060 | 320.2 | 503.7 | 0.879 | --- | 4.80 | 0.465 | 148.4 | 109.4 | 5.4 | 0.459 |
| 4- 940 | 4-1480 | 0.496 | 229.0 | -23.6 | -2.01 | 1.358 | 107.7 | 0.833 | 5.301 | 320.8 | 506.0 | 0.883 | --- | 3.29 | 0.439 | 146.4 | 109.3 | 4.7 | 0.432 |
| 4- 940 | 4-1500 | 0.482 | 229.0 | -21.5 | -1.22 | 1.350 | 107.3 | 0.814 | 4.783 | 321.4 | 508.2 | 0.887 | --- | 2.51 | 0.416 | 144.4 | 109.1 | 4.4 | 0.408 |
| 4- 940 | 4-1520 | 0.470 | 228.8 | -20.1 | -0.73 | 1.344 | 106.8 | 0.798 | 4.409 | 321.9 | 510.4 | 0.891 | --- | 2.02 | 0.395 | 142.2 | 108.8 | 4.2 | 0.385 |
| 4- 940 | 4-1540 | 0.460 | 228.7 | -19.2 | -0.40 | 1.338 | 106.5 | 0.784 | 4.129 | 322.3 | 512.4 | 0.894 | --- | 1.70 | 0.375 | 139.9 | 108.4 | 4.0 | 0.365 |
| 4- 940 | 4-1560 | 0.452 | 228.5 | -18.5 | -0.16 | 1.333 | 106.2 | 0.771 | 3.912 | 322.7 | 514.5 | 0.896 | --- | 1.46 | 0.358 | 137.5 | 107.8 | 3.9 | 0.346 |
| 4- 940 | 4-1580 | 0.445 | 228.4 | -17.9 | 0.02 | 1.329 | 105.9 | 0.760 | 3.742 | 323.0 | 516.4 | 0.898 | --- | 1.28 | 0.342 | 135.1 | 107.2 | 3.9 | 0.328 |
| 4- 940 | 4-1600 | 0.439 | 228.3 | -17.5 | 0.17 | 1.325 | 105.7 | 0.750 | 3.605 | 323.2 | 518.3 | 0.900 | --- | 1.14 | 0.328 | 132.5 | 106.5 | 3.8 | 0.313 |
| 4- 940 | 4-1620 | 0.434 | 228.3 | -17.1 | 0.28 | 1.322 | 105.5 | 0.742 | 3.493 | 323.3 | 520.1 | 0.901 | --- | 1.03 | 0.315 | 129.9 | 105.7 | 3.8 | 0.298 |
| 4- 940 | 4-1640 | 0.430 | 228.3 | -16.8 | 0.38 | 1.319 | 105.4 | 0.735 | 3.401 | 323.4 | 521.8 | 0.902 | --- | 0.94 | 0.303 | 127.2 | 104.8 | 3.8 | 0.285 |
| 4- 940 | 4-1660 | 0.427 | 228.4 | -16.6 | 0.46 | 1.316 | 105.3 | 0.729 | 3.325 | 323.4 | 523.5 | 0.902 | --- | 0.87 | 0.293 | 124.5 | 103.8 | 3.7 | 0.273 |
| 4- 940 | 4-1680 | 0.424 | 228.6 | -16.4 | 0.53 | 1.314 | 105.3 | 0.723 | 3.262 | 323.4 | 525.1 | 0.902 | --- | 0.80 | 0.284 | 121.7 | 102.7 | 3.7 | 0.262 |
| 4- 940 | 4-1700 | 0.423 | 228.8 | -16.2 | 0.58 | 1.312 | 105.3 | 0.719 | 3.209 | 323.2 | 526.7 | 0.902 | --- | 0.75 | 0.275 | 118.9 | 101.5 | 3.7 | 0.253 |
| 4- 940 | 4-1720 | 0.422 | 229.0 | -16.1 | 0.64 | 1.310 | 105.3 | 0.715 | 3.165 | 323.1 | 528.2 | 0.902 | --- | 0.70 | 0.268 | 116.0 | 100.3 | 3.7 | 0.244 |
| 4- 940 | 4-1740 | 0.422 | 229.3 | -16.1 | 0.68 | 1.309 | 105.4 | 0.712 | 3.128 | 322.8 | 529.6 | 0.901 | --- | 0.66 | 0.262 | 113.1 | 99.0 | 3.7 | 0.237 |
| 4- 940 | 4-1760 | 0.422 | 229.7 | -16.1 | 0.72 | 1.308 | 105.4 | 0.709 | 3.096 | 322.5 | 531.0 | 0.900 | --- | 0.62 | 0.257 | 110.3 | 97.6 | 3.7 | 0.230 |
| 4- 940 | 4-1780 | 0.423 | 230.1 | -16.1 | 0.76 | 1.307 | 105.6 | 0.707 | 3.070 | 322.1 | 532.4 | 0.898 | --- | 0.59 | 0.253 | 107.4 | 96.2 | 3.7 | 0.224 |
| 4- 940 | 4-1800 | 0.424 | 230.5 | -16.1 | 0.79 | 1.306 | 105.7 | 0.706 | 3.049 | 321.7 | 533.7 | 0.896 | --- | 0.56 | 0.249 | 104.6 | 94.7 | 3.7 | 0.220 |
| 4- 940 | 4-1820 | 0.426 | 231.0 | -16.1 | 0.82 | 1.305 | 105.9 | 0.705 | 3.031 | 321.3 | 534.9 | 0.894 | --- | 0.54 | 0.246 | 101.8 | 93.3 | 3.7 | 0.216 |
| 4- 940 | 4-1840 | 0.429 | 231.6 | -16.2 | 0.85 | 1.304 | 106.1 | 0.704 | 3.016 | 320.8 | 536.1 | 0.892 | --- | 0.51 | 0.244 | 99.1 | 91.9 | 3.6 | 0.213 |
| 4- 940 | 4-1860 | 0.432 | 232.1 | -16.3 | 0.88 | 1.304 | 106.3 | 0.704 | 3.004 | 320.2 | 537.3 | 0.890 | --- | 0.49 | 0.243 | 96.4 | 90.5 | 3.6 | 0.210 |
| 4- 940 | 4-1880 | 0.435 | 232.8 | -16.4 | 0.90 | 1.303 | 106.6 | 0.704 | 2.995 | 319.6 | 538.4 | 0.887 | --- | 0.48 | 0.242 | 93.8 | 89.2 | 3.6 | 0.209 |
| 4- 940 | 4-1900 | 0.439 | 233.4 | -16.5 | 0.92 | 1.303 | 106.8 | 0.704 | 2.988 | 318.9 | 539.5 | 0.884 | --- | 0.46 | 0.241 | 91.3 | 87.9 | 3.6 | 0.208 |
| 4- 940 | 4-1920 | 0.443 | 234.1 | -16.6 | 0.94 | 1.303 | 107.1 | 0.705 | 2.983 | 318.2 | 540.5 | 0.880 | 5.085 | 0.44 | 0.241 | 88.9 | 86.7 | 3.6 | 0.208 |
| 4- 940 | 4-1940 | 0.448 | 234.8 | -16.8 | 0.96 | 1.303 | 107.4 | 0.706 | 2.979 | 317.4 | 541.5 | 0.877 | 5.082 | 0.43 | 0.241 | 86.5 | 85.6 | 3.6 | 0.208 |
| 4- 940 | 4-1960 | 0.453 | 235.5 | -16.9 | 0.98 | 1.303 | 107.8 | 0.707 | 2.978 | 316.6 | 542.4 | 0.873 | 5.083 | 0.42 | 0.242 | 84.2 | 84.6 | 3.5 | 0.209 |
| 4- 940 | 4-1980 | 0.459 | 236.3 | -17.1 | 1.00 | 1.303 | 108.1 | 0.708 | 2.977 | 315.8 | 543.3 | 0.868 | 5.086 | 0.40 | 0.243 | 82.0 | 83.7 | 3.5 | 0.210 |
| 4- 940 | 4-2000 | 0.464 | 237.1 | -17.2 | 1.01 | 1.303 | 108.5 | 0.710 | 2.978 | 314.9 | 544.2 | 0.864 | 5.092 | 0.39 | 0.244 | 79.9 | 83.0 | 3.5 | 0.212 |
| 4- 940 | 4-2020 | 0.471 | 237.9 | -17.4 | 1.03 | 1.303 | 108.9 | 0.712 | 2.980 | 314.0 | 545.1 | 0.859 | 5.101 | 0.38 | 0.245 | 77.9 | 82.3 | 3.5 | 0.214 |
| 4- 940 | 4-2040 | 0.477 | 238.8 | -17.6 | 1.04 | 1.303 | 109.3 | 0.714 | 2.983 | 313.1 | 545.9 | 0.854 | 5.113 | 0.37 | 0.247 | 75.9 | 81.8 | 3.5 | 0.216 |
| 4- 940 | 4-2060 | 0.484 | 239.6 | -17.8 | 1.06 | 1.303 | 109.8 | 0.716 | 2.987 | 312.1 | 546.6 | 0.848 | 5.126 | 0.37 | 0.249 | 74.0 | 81.3 | 3.4 | 0.219 |
| 4- 940 | 4-2080 | 0.492 | 240.5 | -18.0 | 1.07 | 1.303 | 110.2 | 0.718 | 2.992 | 311.0 | 547.4 | 0.843 | 5.142 | 0.36 | 0.251 | 72.2 | 81.0 | 3.4 | 0.222 |
| 4- 940 | 4-2100 | 0.500 | 241.4 | -18.1 | 1.09 | 1.304 | 110.7 | 0.721 | 2.998 | 310.0 | 548.1 | 0.837 | 5.159 | 0.35 | 0.253 | 70.5 | 80.8 | 3.4 | 0.225 |
| 4- 940 | 4-2120 | 0.508 | 242.2 | -18.3 | 1.10 | 1.304 | 111.2 | 0.724 | 3.004 | 308.9 | 548.8 | 0.830 | 5.178 | 0.34 | 0.255 | 68.8 | 80.7 | 3.4 | 0.229 |
| 4- 940 | 4-2140 | 0.516 | 243.2 | -18.5 | 1.11 | 1.304 | 111.7 | 0.727 | 3.011 | 307.8 | 549.4 | 0.823 | 5.199 | 0.34 | 0.258 | 67.2 | 80.8 | 3.4 | 0.232 |
| 4- 940 | 4-2160 | 0.525 | 244.1 | -18.7 | 1.12 | 1.304 | 112.2 | 0.730 | 3.019 | 306.6 | 550.0 | 0.816 | 5.221 | 0.33 | 0.260 | 65.7 | 80.9 | 3.4 | 0.236 |
| 4- 940 | 4-2180 | 0.534 | 245.0 | -18.9 | 1.13 | 1.305 | 112.8 | 0.733 | 3.027 | 305.4 | 550.6 | 0.809 | 5.245 | 0.33 | 0.262 | 64.2 | 81.1 | 3.4 | 0.240 |
| 4- 940 | 4-2200 | 0.544 | 245.9 | -19.0 | 1.14 | 1.305 | 113.3 | 0.736 | 3.036 | 304.2 | 551.2 | 0.801 | 5.270 | 0.32 | 0.265 | 62.8 | 81.4 | 3.3 | 0.245 |
| 4- 940 | 4-2220 | 0.554 | 246.9 | -19.2 | 1.16 | 1.306 | 113.9 | 0.740 | 3.045 | 302.9 | 551.7 | 0.793 | 5.297 | 0.32 | 0.268 | 61.4 | 81.8 | 3.3 | 0.249 |
| 4- 940 | 4-2240 | 0.564 | 247.8 | -19.4 | 1.17 | 1.306 | 114.5 | 0.743 | 3.054 | 301.6 | 552.2 | 0.784 | 5.324 | 0.32 | 0.270 | 60.1 | 82.2 | 3.3 | 0.253 |
| 4- 940 | 4-2260 | 0.575 | 248.8 | -19.6 | 1.18 | 1.306 | 115.1 | 0.747 | 3.064 | 300.3 | 552.7 | 0.775 | 5.353 | 0.31 | 0.273 | 58.8 | 82.8 | 3.3 | 0.258 |
| 4- 940 | 4-2280 | 0.586 | 249.7 | -19.7 | 1.19 | 1.307 | 115.7 | 0.751 | 3.075 | 299.0 | 553.2 | 0.766 | 5.383 | 0.31 | 0.275 | 57.5 | 83.4 | 3.3 | 0.263 |
| 4- 940 | 4-2300 | 0.597 | 250.7 | -19.9 | 1.20 | 1.307 | 116.4 | 0.755 | 3.085 | 297.6 | 553.6 | 0.757 | 5.414 | 0.31 | 0.278 | 56.3 | 84.1 | 3.3 | 0.268 |
| 4- 940 | 4-2320 | 0.609 | 251.6 | -20.0 | 1.21 | 1.308 | 117.0 | 0.759 | 3.096 | 296.2 | 554.0 | 0.747 | 5.446 | 0.30 | 0.280 | 55.1 | 84.9 | 3.3 | 0.272 |
| 4- 940 | 4-2340 | 0.621 | 252.6 | -20.2 | 1.22 | 1.308 | 117.7 | 0.763 | 3.108 | 294.7 | 554.4 | 0.736 | 5.479 | 0.30 | 0.283 | 54.0 | 85.7 | 3.3 | 0.277 |
| 4- 940 | 4-2360 | 0.633 | 253.6 | -20.3 | 1.23 | 1.309 | 118.4 | 0.767 | 3.119 | 293.3 | 554.7 | 0.725 | 5.513 | 0.30 | 0.286 | 52.9 | 86.6 | 3.3 | 0.282 |
| 4- 940 | 4-2380 | 0.646 | 254.5 | -20.5 | 1.24 | 1.309 | 119.1 | 0.772 | 3.131 | 291.8 | 555.1 | 0.714 | 5.548 | 0.30 | 0.288 | 51.8 | 87.6 | 3.3 | 0.288 |
| 4- 940 | 4-2400 | 0.659 | 255.5 | -20.6 | 1.25 | 1.309 | 119.9 | 0.776 | 3.143 | 290.2 | 555.4 | 0.703 | 5.584 | 0.30 | 0.291 | 50.7 | 88.6 | 3.3 | 0.293 |
| 4- 940 | 4-2420 | 0.672 | 256.5 | -20.7 | 1.26 | 1.310 | 120.6 | 0.781 | 3.155 | 288.7 | 555.6 | 0.691 | 5.620 | 0.30 | 0.293 | 49.6 | 89.6 | 3.3 | 0.298 |
| 4- 940 | 4-2440 | 0.686 | 257.5 | -20.9 | 1.26 | 1.310 | 121.4 | 0.786 | 3.168 | 287.1 | 555.9 | 0.678 | 5.658 | 0.30 | 0.296 | 48.6 | 90.7 | 3.3 | 0.303 |
| 4- 940 | 4-2460 | 0.700 | 258.4 | -21.0 | 1.27 | 1.311 | 122.2 | 0.791 | 3.181 | 285.5 | 556.1 | 0.666 | 5.696 | 0.30 | 0.298 | 47.6 | 91.9 | 3.3 | 0.309 |
| 4- 940 | 4-2480 | 0.714 | 259.4 | -21.1 | 1.28 | 1.311 | 123.0 | 0.796 | 3.194 | 283.9 | 556.3 | 0.653 | 5.735 | 0.30 | 0.300 | 46.6 | 93.1 | 3.3 | 0.314 |
| 4- 940 | 4-2500 | 0.729 | 260.4 | -21.2 | 1.29 | 1.312 | 123.8 | 0.801 | 3.207 | 282.2 | 556.5 | 0.639 | 5.775 | 0.30 | 0.303 | 45.6 | 94.3 | 3.3 | 0.320 |
| 4- 940 | 4-2520 | 0.744 | 261.4 | -21.3 | 1.30 | 1.312 | 124.6 | 0.806 | 3.220 | 280.6 | 556.6 | 0.625 | 5.815 | 0.30 | 0.305 | 44.7 | 95.6 | 3.3 | 0.325 |
| 4- 940 | 4-2540 | 0.760 | 262.4 | -21.4 | 1.31 | 1.313 | 125.5 | 0.811 | 3.234 | 278.9 | 556.8 | 0.611 | 5.857 | 0.30 | 0.307 | 43.7 | 96.9 | 3.2 | 0.331 |
| 4- 950 | 4-1330 | 0.630 | 239.6 | -17.1 | 1.53 | 1.478 | 110.2 | 1.132 | -6.613 | 322.1 | 484.9 | 0.873 | --- | -0.23 | 0.727 | 159.2 | 109.7 | 2.8 | 0.721 |
| 4- 950 | 4-1350 | 0.594 | 238.6 | -16.7 | 1.55 | 1.454 | 109.1 | 1.07 | 112.389 | 323.2 | 487.7 | 0.882 | --- | -0.26 | 0.677 | 157.8 | 110.0 | 2.8 | 0.670 |
| 4- 950 | 4-1370 | 0.563 | 237.7 | -16.2 | 1.58 | 1.434 | 108.0 | 1.01 | 946.673 | 324.3 | 490.3 | 0.890 | --- | -0.28 | 0.633 | 156.3 | 110.3 | 2.8 | 0.625 |
| 4- 950 | 4-1390 | 0.536 | 236.8 | -15.8 | 1.62 | 1.416 | 107.1 | 0.97 | 434.851 | 325.3 | 493.0 | 0.897 | --- | -0.32 | 0.592 | 154.8 | 110.5 | 2.7 | 0.584 |
| 4- 950 | 4-1410 | 0.512 | 235.9 | -15.3 | 1.67 | 1.401 | 106.3 | 0.93 | 614.012 | 326.3 | 495.6 | 0.903 | --- | -0.37 | 0.555 | 153.1 | 110.6 | 2.7 | 0.547 |
| 4- 950 | 4-1430 | 0.491 | 235.1 | -14.7 | 1.73 | 1.388 | 105.5 | 0.902 | 9.275 | 327.2 | 498.1 | 0.909 | --- | -0.43 | 0.522 | 151.4 | 110.7 | 2.7 | 0.513 |
| 4- 950 | 4-1450 | 0.473 | 234.3 | -14.1 | 1.83 | 1.377 | 104.9 | 0.873 | 7.190 | 328.0 | 500.6 | 0.914 | --- | -0.53 | 0.492 | 149.6 | 110.7 | 2.6 | 0.481 |
| 4- 950 | 4-1470 | 0.457 | 233.7 | -13.4 | 1.97 | 1.367 | 104.3 | 0.848 | 6.025 | 328.8 | 503.0 | 0.918 | --- | -0.67 | 0.464 | 147.6 | 110.6 | 2.5 | 0.453 |
| 4- 950 | 4-1490 | 0.444 | 233.2 | -12.3 | 2.24 | 1.358 | 103.8 | 0.826 | 5.285 | 329.5 | 505.3 | 0.922 | --- | -0.94 | 0.439 | 145.6 | 110.4 | 2.3 | 0.427 |
| 4- 950 | 4-1510 | 0.433 | 233.1 | -10.2 | 2.84 | 1.351 | 103.3 | 0.806 | 4.777 | 330.1 | 507.6 | 0.925 | --- | -1.54 | 0.416 | 143.6 | 110.2 | 1.9 | 0.403 |
| 4- 950 | 4-1530 | 0.434 | 235.1 | -1.8 | 5.65 | 1.344 | 102.9 | 0.790 | 4.410 | 330.7 | 509.8 | 0.928 | --- | -4.35 | 0.395 | 141.4 | 109.8 | 0.1 | 0.381 |
| 4- 950 | 4-1550 | 0.417 | 226.3 | -30.2 | -3.90 | 1.339 | 102.6 | 0.775 | 4.134 | 331.1 | 511.9 | 0.930 | --- | 5.20 | 0.376 | 139.1 | 109.4 | 6.4 | 0.361 |
| 4- 950 | 4-1570 | 0.402 | 228.9 | -19.2 | -0.32 | 1.334 | 102.3 | 0.762 | 3.920 | 331.5 | 513.9 | 0.932 | --- | 1.63 | 0.359 | 136.7 | 109.0 | 4.1 | 0.341 |
| 4- 950 | 4-1590 | 0.395 | 229.1 | -17.0 | 0.34 | 1.329 | 102.0 | 0.751 | 3.752 | 331.8 | 515.9 | 0.933 | --- | 0.96 | 0.343 | 134.3 | 108.4 | 3.6 | 0.324 |
| 4- 950 | 4-1610 | 0.390 | 229.1 | -16.0 | 0.62 | 1.326 | 101.8 | 0.742 | 3.616 | 332.1 | 517.8 | 0.935 | --- | 0.68 | 0.329 | 131.8 | 107.7 | 3.5 | 0.309 |
| 4- 950 | 4-1630 | 0.385 | 229.1 | -15.4 | 0.78 | 1.322 | 101.7 | 0.733 | 3.506 | 332.3 | 519.7 | 0.936 | --- | 0.53 | 0.317 | 129.2 | 106.9 | 3.4 | 0.294 |
| 4- 950 | 4-1650 | 0.382 | 229.1 | -15.1 | 0.88 | 1.320 | 101.6 | 0.726 | 3.415 | 332.4 | 521.4 | 0.936 | --- | 0.43 | 0.305 | 126.5 | 106.0 | 3.3 | 0.281 |
| 4- 950 | 4-1670 | 0.379 | 229.2 | -14.8 | 0.94 | 1.317 | 101.5 | 0.720 | 3.340 | 332.4 | 523.1 | 0.937 | --- | 0.37 | 0.295 | 123.8 | 105.0 | 3.3 | 0.269 |
| 4- 950 | 4-1690 | 0.377 | 229.3 | -14.7 | 0.99 | 1.315 | 101.5 | 0.714 | 3.277 | 332.4 | 524.8 | 0.937 | --- | 0.32 | 0.286 | 121.1 | 103.9 | 3.3 | 0.259 |
| 4- 950 | 4-1710 | 0.375 | 229.5 | -14.6 | 1.03 | 1.313 | 101.5 | 0.710 | 3.225 | 332.3 | 526.4 | 0.936 | --- | 0.28 | 0.279 | 118.3 | 102.7 | 3.3 | 0.249 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 950 | 4-1730 | 0.374 | 229.7 | -14.5 | 1.06 | 1.311 | 101.5 | 0.706 | 3.181 | 332.1 | 527.9 | 0.936 | --- | 0.25 | 0.272 | 115.5 | 101.5 | 3.3 | 0.241 |
| 4- 950 | 4-1750 | 0.374 | 230.1 | -14.5 | 1.09 | 1.310 | 101.6 | 0.702 | 3.144 | 331.9 | 529.4 | 0.935 | --- | 0.23 | 0.266 | 112.7 | 100.2 | 3.3 | 0.233 |
| 4- 950 | 4-1770 | 0.374 | 230.4 | -14.6 | 1.11 | 1.309 | 101.6 | 0.700 | 3.113 | 331.6 | 530.8 | 0.935 | --- | 0.21 | 0.261 | 109.9 | 98.8 | 3.3 | 0.227 |
| 4- 950 | 4-1790 | 0.374 | 230.9 | -14.6 | 1.12 | 1.308 | 101.8 | 0.698 | 3.087 | 331.2 | 532.1 | 0.934 | --- | 0.19 | 0.257 | 107.2 | 97.4 | 3.3 | 0.221 |
| 4- 950 | 4-1810 | 0.376 | 231.4 | -14.7 | 1.14 | 1.307 | 101.9 | 0.696 | 3.066 | 330.8 | 533.5 | 0.932 | --- | 0.18 | 0.253 | 104.4 | 96.0 | 3.3 | 0.216 |
| 4- 950 | 4-1830 | 0.377 | 231.9 | -14.8 | 1.15 | 1.306 | 102.1 | 0.695 | 3.048 | 330.4 | 534.7 | 0.931 | --- | 0.17 | 0.251 | 101.7 | 94.6 | 3.2 | 0.212 |
| 4- 950 | 4-1850 | 0.379 | 232.6 | -15.0 | 1.16 | 1.305 | 102.3 | 0.694 | 3.033 | 329.9 | 535.9 | 0.929 | --- | 0.16 | 0.249 | 99.1 | 93.2 | 3.2 | 0.209 |
| 4- 950 | 4-1870 | 0.382 | 233.2 | -15.1 | 1.17 | 1.305 | 102.5 | 0.693 | 3.022 | 329.3 | 537.1 | 0.927 | --- | 0.15 | 0.247 | 96.5 | 91.8 | 3.2 | 0.207 |
| 4- 950 | 4-1890 | 0.384 | 233.9 | -15.3 | 1.18 | 1.305 | 102.7 | 0.693 | 3.013 | 328.7 | 538.2 | 0.925 | --- | 0.14 | 0.246 | 94.0 | 90.5 | 3.2 | 0.205 |
| 4- 950 | 4-1910 | 0.388 | 234.7 | -15.5 | 1.19 | 1.304 | 103.0 | 0.693 | 3.006 | 328.1 | 539.3 | 0.922 | --- | 0.13 | 0.246 | 91.6 | 89.2 | 3.2 | 0.204 |
| 4- 950 | 4-1930 | 0.391 | 235.5 | -15.7 | 1.20 | 1.304 | 103.3 | 0.693 | 3.001 | 327.4 | 540.3 | 0.920 | 5.082 | 0.13 | 0.246 | 89.2 | 88.1 | 3.2 | 0.203 |
| 4- 950 | 4-1950 | 0.395 | 236.3 | -15.9 | 1.20 | 1.304 | 103.6 | 0.694 | 2.998 | 326.6 | 541.3 | 0.917 | 5.078 | 0.12 | 0.246 | 86.9 | 87.0 | 3.2 | 0.203 |
| 4- 950 | 4-1970 | 0.400 | 237.1 | -16.1 | 1.21 | 1.304 | 103.9 | 0.695 | 2.996 | 325.9 | 542.3 | 0.914 | 5.078 | 0.11 | 0.247 | 84.8 | 86.0 | 3.2 | 0.204 |
| 4- 950 | 4-1990 | 0.405 | 238.0 | -16.3 | 1.22 | 1.304 | 104.3 | 0.696 | 2.996 | 325.0 | 543.2 | 0.911 | 5.081 | 0.11 | 0.248 | 82.6 | 85.1 | 3.2 | 0.205 |
| 4- 950 | 4-2010 | 0.410 | 239.0 | -16.5 | 1.22 | 1.304 | 104.6 | 0.697 | 2.997 | 324.2 | 544.1 | 0.907 | 5.086 | 0.11 | 0.249 | 80.6 | 84.3 | 3.2 | 0.206 |
| 4- 950 | 4-2030 | 0.415 | 239.9 | -16.8 | 1.23 | 1.304 | 105.0 | 0.699 | 2.999 | 323.3 | 545.0 | 0.903 | 5.095 | 0.10 | 0.250 | 78.7 | 83.6 | 3.2 | 0.208 |
| 4- 950 | 4-2050 | 0.421 | 240.9 | -17.0 | 1.23 | 1.304 | 105.4 | 0.701 | 3.002 | 322.3 | 545.8 | 0.899 | 5.105 | 0.10 | 0.252 | 76.8 | 83.0 | 3.2 | 0.210 |
| 4- 950 | 4-2070 | 0.427 | 241.8 | -17.2 | 1.24 | 1.304 | 105.8 | 0.702 | 3.006 | 321.4 | 546.6 | 0.895 | 5.118 | 0.10 | 0.254 | 75.0 | 82.6 | 3.2 | 0.213 |
| 4- 950 | 4-2090 | 0.434 | 242.8 | -17.5 | 1.24 | 1.305 | 106.2 | 0.704 | 3.011 | 320.4 | 547.4 | 0.890 | 5.132 | 0.09 | 0.256 | 73.3 | 82.3 | 3.1 | 0.216 |
| 4- 950 | 4-2110 | 0.441 | 243.9 | -17.7 | 1.24 | 1.305 | 106.7 | 0.707 | 3.017 | 319.3 | 548.1 | 0.885 | 5.148 | 0.09 | 0.258 | 71.6 | 82.0 | 3.1 | 0.219 |
| 4- 950 | 4-2130 | 0.448 | 244.9 | -17.9 | 1.25 | 1.305 | 107.2 | 0.709 | 3.023 | 318.2 | 548.8 | 0.880 | 5.167 | 0.09 | 0.260 | 70.0 | 81.9 | 3.1 | 0.222 |
| 4- 950 | 4-2150 | 0.456 | 245.9 | -18.1 | 1.25 | 1.305 | 107.7 | 0.712 | 3.030 | 317.1 | 549.5 | 0.874 | 5.186 | 0.09 | 0.262 | 68.5 | 81.9 | 3.1 | 0.225 |
| 4- 950 | 4-2170 | 0.464 | 247.0 | -18.4 | 1.25 | 1.306 | 108.2 | 0.714 | 3.038 | 316.0 | 550.1 | 0.868 | 5.207 | 0.08 | 0.264 | 67.0 | 82.0 | 3.1 | 0.229 |
| 4- 950 | 4-2190 | 0.472 | 248.0 | -18.6 | 1.26 | 1.306 | 108.7 | 0.717 | 3.046 | 314.8 | 550.8 | 0.862 | 5.230 | 0.08 | 0.267 | 65.6 | 82.2 | 3.1 | 0.233 |
| 4- 950 | 4-2210 | 0.481 | 249.1 | -18.8 | 1.26 | 1.306 | 109.2 | 0.720 | 3.055 | 313.6 | 551.4 | 0.856 | 5.254 | 0.08 | 0.269 | 64.3 | 82.5 | 3.1 | 0.237 |
| 4- 950 | 4-2230 | 0.490 | 250.2 | -19.0 | 1.26 | 1.307 | 109.8 | 0.723 | 3.064 | 312.4 | 551.9 | 0.849 | 5.279 | 0.08 | 0.272 | 63.0 | 82.8 | 3.1 | 0.241 |
| 4- 950 | 4-2250 | 0.499 | 251.2 | -19.2 | 1.27 | 1.307 | 110.3 | 0.726 | 3.073 | 311.1 | 552.5 | 0.842 | 5.305 | 0.08 | 0.274 | 61.7 | 83.3 | 3.1 | 0.245 |
| 4- 950 | 4-2270 | 0.509 | 252.3 | -19.4 | 1.27 | 1.308 | 110.9 | 0.729 | 3.083 | 309.8 | 553.0 | 0.834 | 5.332 | 0.08 | 0.277 | 60.5 | 83.8 | 3.1 | 0.249 |
| 4- 950 | 4-2290 | 0.519 | 253.4 | -19.6 | 1.27 | 1.308 | 111.5 | 0.733 | 3.094 | 308.5 | 553.5 | 0.826 | 5.361 | 0.08 | 0.279 | 59.3 | 84.4 | 3.1 | 0.254 |
| 4- 950 | 4-2310 | 0.529 | 254.5 | -19.7 | 1.27 | 1.308 | 112.1 | 0.736 | 3.104 | 307.2 | 553.9 | 0.818 | 5.391 | 0.07 | 0.282 | 58.1 | 85.1 | 3.1 | 0.258 |
| 4- 950 | 4-2330 | 0.540 | 255.5 | -19.9 | 1.28 | 1.309 | 112.7 | 0.740 | 3.115 | 305.8 | 554.4 | 0.810 | 5.421 | 0.07 | 0.284 | 57.0 | 85.8 | 3.1 | 0.263 |
| 4- 950 | 4-2350 | 0.551 | 256.6 | -20.1 | 1.28 | 1.309 | 113.4 | 0.744 | 3.127 | 304.4 | 554.8 | 0.801 | 5.453 | 0.07 | 0.287 | 55.9 | 86.6 | 3.1 | 0.267 |
| 4- 950 | 4-2370 | 0.562 | 257.7 | -20.2 | 1.28 | 1.310 | 114.0 | 0.748 | 3.138 | 303.0 | 555.2 | 0.792 | 5.485 | 0.07 | 0.289 | 54.9 | 87.5 | 3.1 | 0.272 |
| 4- 950 | 4-2390 | 0.573 | 258.8 | -20.4 | 1.28 | 1.310 | 114.7 | 0.752 | 3.150 | 301.5 | 555.5 | 0.782 | 5.518 | 0.07 | 0.292 | 53.9 | 88.4 | 3.1 | 0.277 |
| 4- 950 | 4-2410 | 0.585 | 259.8 | -20.5 | 1.29 | 1.311 | 115.4 | 0.756 | 3.162 | 300.0 | 555.9 | 0.772 | 5.552 | 0.07 | 0.294 | 52.8 | 89.3 | 3.1 | 0.282 |
| 4- 950 | 4-2430 | 0.598 | 260.9 | -20.6 | 1.29 | 1.311 | 116.1 | 0.760 | 3.174 | 298.5 | 556.2 | 0.762 | 5.587 | 0.07 | 0.297 | 51.9 | 90.4 | 3.1 | 0.286 |
| 4- 950 | 4-2450 | 0.610 | 262.0 | -20.8 | 1.29 | 1.312 | 116.8 | 0.764 | 3.187 | 297.0 | 556.5 | 0.751 | 5.623 | 0.07 | 0.299 | 50.9 | 91.4 | 3.1 | 0.291 |
| 4- 950 | 4-2470 | 0.623 | 263.0 | -20.9 | 1.29 | 1.312 | 117.6 | 0.769 | 3.200 | 295.4 | 556.8 | 0.740 | 5.660 | 0.07 | 0.301 | 50.0 | 92.5 | 3.1 | 0.296 |
| 4- 950 | 4-2490 | 0.637 | 264.1 | -21.0 | 1.30 | 1.313 | 118.3 | 0.773 | 3.213 | 293.9 | 557.0 | 0.728 | 5.697 | 0.07 | 0.304 | 49.0 | 93.7 | 3.1 | 0.301 |
| 4- 950 | 4-2510 | 0.650 | 265.2 | -21.1 | 1.30 | 1.313 | 119.1 | 0.778 | 3.226 | 292.3 | 557.2 | 0.716 | 5.735 | 0.07 | 0.306 | 48.1 | 94.9 | 3.1 | 0.306 |
| 4- 950 | 4-2530 | 0.664 | 266.2 | -21.2 | 1.30 | 1.313 | 119.9 | 0.783 | 3.239 | 290.6 | 557.4 | 0.704 | 5.774 | 0.07 | 0.308 | 47.2 | 96.1 | 3.1 | 0.311 |
| 4- 950 | 4-2550 | 0.679 | 267.3 | -21.3 | 1.30 | 1.314 | 120.7 | 0.788 | 3.252 | 289.0 | 557.6 | 0.691 | 5.814 | 0.07 | 0.310 | 46.3 | 97.4 | 3.1 | 0.317 |
| 4- 960 | 4-1320 | 0.607 | 241.7 | -18.5 | 0.99 | 1.503 | 106.8 | 1.203 | -4.470 | 329.3 | 481.2 | 0.908 | --- | 0.35 | 0.775 | 159.9 | 110.4 | 3.0 | 0.765 |
| 4- 960 | 4-1340 | 0.568 | 240.4 | -18.2 | 0.97 | 1.475 | 105.7 | 1.129 | -7.079 | 330.5 | 484.0 | 0.916 | --- | 0.37 | 0.721 | 158.5 | 110.8 | 3.0 | 0.710 |
| 4- 960 | 4-1360 | 0.534 | 239.1 | -17.9 | 0.94 | 1.451 | 104.6 | 1.067 | 13.822 | 331.7 | 486.8 | 0.923 | --- | 0.39 | 0.671 | 157.1 | 111.1 | 3.0 | 0.661 |
| 4- 960 | 4-1380 | 0.505 | 237.8 | -17.6 | 0.92 | 1.431 | 103.6 | 1.013 | 69.563 | 332.9 | 489.6 | 0.929 | --- | 0.41 | 0.627 | 155.6 | 111.3 | 3.0 | 0.616 |
| 4- 960 | 4-1400 | 0.480 | 236.6 | -17.3 | 0.88 | 1.414 | 102.8 | 0.968 | 28.875 | 334.0 | 492.3 | 0.934 | --- | 0.44 | 0.587 | 154.0 | 111.5 | 3.1 | 0.575 |
| 4- 960 | 4-1420 | 0.458 | 235.3 | -17.0 | 0.85 | 1.399 | 102.0 | 0.928 | 13.098 | 335.0 | 495.0 | 0.939 | --- | 0.48 | 0.551 | 152.4 | 111.6 | 3.1 | 0.539 |
| 4- 960 | 4-1440 | 0.439 | 234.1 | -16.8 | 0.81 | 1.386 | 101.3 | 0.894 | 8.930 | 336.0 | 497.6 | 0.943 | --- | 0.52 | 0.518 | 150.6 | 111.7 | 3.1 | 0.505 |
| 4- 960 | 4-1460 | 0.422 | 233.0 | -16.6 | 0.75 | 1.375 | 100.7 | 0.865 | 7.015 | 336.9 | 500.1 | 0.947 | --- | 0.56 | 0.488 | 148.8 | 111.6 | 3.2 | 0.474 |
| 4- 960 | 4-1480 | 0.407 | 231.9 | -16.5 | 0.69 | 1.366 | 100.1 | 0.840 | 5.922 | 337.8 | 502.6 | 0.950 | --- | 0.62 | 0.461 | 146.9 | 111.5 | 3.2 | 0.446 |
| 4- 960 | 4-1500 | 0.395 | 230.9 | -16.4 | 0.62 | 1.357 | 99.7 | 0.818 | 5.220 | 338.5 | 504.9 | 0.953 | --- | 0.70 | 0.436 | 144.8 | 111.4 | 3.3 | 0.420 |
| 4- 960 | 4-1520 | 0.384 | 230.0 | -16.5 | 0.52 | 1.350 | 99.2 | 0.798 | 4.735 | 339.2 | 507.3 | 0.955 | --- | 0.79 | 0.414 | 142.7 | 111.1 | 3.4 | 0.396 |
| 4- 960 | 4-1540 | 0.374 | 229.1 | -16.7 | 0.39 | 1.344 | 98.9 | 0.782 | 4.382 | 339.8 | 509.5 | 0.957 | --- | 0.92 | 0.394 | 140.5 | 110.8 | 3.5 | 0.375 |
| 4- 960 | 4-1560 | 0.366 | 228.2 | -17.1 | 0.22 | 1.338 | 98.6 | 0.767 | 4.115 | 340.3 | 511.7 | 0.958 | --- | 1.09 | 0.375 | 138.3 | 110.4 | 3.6 | 0.355 |
| 4- 960 | 4-1580 | 0.359 | 227.4 | -17.9 | -0.04 | 1.333 | 98.3 | 0.754 | 3.908 | 340.7 | 513.7 | 0.960 | --- | 1.35 | 0.358 | 135.9 | 109.8 | 3.9 | 0.336 |
| 4- 960 | 4-1600 | 0.354 | 226.4 | -19.3 | -0.47 | 1.329 | 98.1 | 0.743 | 3.744 | 341.0 | 515.7 | 0.961 | --- | 1.77 | 0.343 | 133.5 | 109.2 | 4.3 | 0.320 |
| 4- 960 | 4-1620 | 0.349 | 225.2 | -22.1 | -1.28 | 1.326 | 97.9 | 0.734 | 3.612 | 341.3 | 517.7 | 0.961 | --- | 2.58 | 0.329 | 131.0 | 108.5 | 5.0 | 0.304 |
| 4- 960 | 4-1640 | 0.351 | 222.5 | -30.0 | -3.46 | 1.322 | 97.8 | 0.726 | 3.505 | 341.5 | 519.5 | 0.962 | --- | 4.76 | 0.317 | 128.4 | 107.6 | 7.0 | 0.291 |
| 4- 960 | 4-1660 | 0.659 | 143.6 | -81.9 | -28.34 | 1.320 | 97.7 | 0.718 | 3.417 | 341.7 | 521.3 | 0.963 | --- | 29.64 | 0.306 | 125.7 | 102.6 | 25.2 | 0.325 |
| 4- 960 | 4-1680 | 0.374 | 235.0 | 10.3 | 7.99 | 1.317 | 97.6 | 0.712 | 3.343 | 341.7 | 523.1 | 0.963 | --- | -6.70 | 0.296 | 123.1 | 105.5 | -3.2 | 0.268 |
| 4- 960 | 4-1700 | 0.347 | 231.0 | -1.6 | 4.33 | 1.315 | 97.6 | 0.707 | 3.282 | 341.6 | 524.7 | 0.963 | --- | -3.04 | 0.288 | 120.3 | 104.6 | 0.0 | 0.256 |
| 4- 960 | 4-1720 | 0.341 | 230.0 | -5.4 | 3.25 | 1.313 | 97.6 | 0.702 | 3.231 | 341.5 | 526.3 | 0.963 | --- | -1.97 | 0.280 | 117.6 | 103.5 | 1.0 | 0.246 |
| 4- 960 | 4-1740 | 0.338 | 229.7 | -7.3 | 2.74 | 1.312 | 97.6 | 0.698 | 3.188 | 341.4 | 527.8 | 0.962 | --- | -1.45 | 0.274 | 114.9 | 102.3 | 1.5 | 0.237 |
| 4- 960 | 4-1760 | 0.336 | 229.7 | -8.5 | 2.44 | 1.310 | 97.7 | 0.695 | 3.152 | 341.2 | 529.3 | 0.962 | --- | -1.15 | 0.268 | 112.1 | 101.0 | 1.8 | 0.230 |
| 4- 960 | 4-1780 | 0.336 | 229.9 | -9.4 | 2.24 | 1.309 | 97.8 | 0.692 | 3.122 | 340.9 | 530.7 | 0.961 | --- | -0.95 | 0.263 | 109.4 | 99.7 | 2.0 | 0.223 |
| 4- 960 | 4-1800 | 0.336 | 230.2 | -10.0 | 2.09 | 1.308 | 97.9 | 0.690 | 3.097 | 340.5 | 532.1 | 0.960 | --- | -0.81 | 0.259 | 106.7 | 98.3 | 2.1 | 0.218 |
| 4- 960 | 4-1820 | 0.336 | 230.7 | -10.6 | 1.99 | 1.307 | 98.1 | 0.688 | 3.076 | 340.1 | 533.4 | 0.960 | --- | -0.71 | 0.256 | 104.0 | 96.9 | 2.2 | 0.213 |
| 4- 960 | 4-1840 | 0.337 | 231.2 | -11.1 | 1.91 | 1.307 | 98.3 | 0.687 | 3.059 | 339.7 | 534.7 | 0.958 | --- | -0.63 | 0.254 | 101.4 | 95.5 | 2.3 | 0.209 |
| 4- 960 | 4-1860 | 0.338 | 231.9 | -11.6 | 1.84 | 1.306 | 98.5 | 0.686 | 3.045 | 339.2 | 535.9 | 0.957 | --- | -0.57 | 0.252 | 98.8 | 94.1 | 2.4 | 0.206 |
| 4- 960 | 4-1880 | 0.340 | 232.6 | -12.0 | 1.79 | 1.306 | 98.7 | 0.685 | 3.034 | 338.6 | 537.1 | 0.956 | --- | -0.52 | 0.250 | 96.3 | 92.7 | 2.4 | 0.204 |
| 4- 960 | 4-1900 | 0.342 | 233.3 | -12.4 | 1.74 | 1.305 | 98.9 | 0.685 | 3.026 | 338.0 | 538.2 | 0.954 | --- | -0.47 | 0.250 | 93.9 | 91.4 | 2.5 | 0.202 |
| 4- 960 | 4-1920 | 0.344 | 234.2 | -12.8 | 1.70 | 1.305 | 99.2 | 0.684 | 3.019 | 337.4 | 539.3 | 0.953 | --- | -0.44 | 0.249 | 91.6 | 90.2 | 2.5 | 0.201 |
| 4- 960 | 4-1940 | 0.347 | 235.1 | -13.2 | 1.67 | 1.305 | 99.4 | 0.685 | 3.015 | 336.7 | 540.3 | 0.951 | 5.078 | -0.41 | 0.249 | 89.3 | 89.0 | 2.6 | 0.200 |
| 4- 960 | 4-1960 | 0.350 | 236.0 | -13.6 | 1.64 | 1.305 | 99.7 | 0.685 | 3.012 | 335.9 | 541.3 | 0.949 | 5.075 | -0.38 | 0.250 | 87.1 | 87.9 | 2.6 | 0.200 |
| 4- 960 | 4-1980 | 0.354 | 237.0 | -14.0 | 1.61 | 1.305 | 100.1 | 0.686 | 3.010 | 335.2 | 542.3 | 0.946 | 5.074 | -0.36 | 0.250 | 85.0 | 87.0 | 2.6 | 0.200 |
| 4- 960 | 4-2000 | 0.358 | 238.0 | -14.4 | 1.59 | 1.305 | 100.4 | 0.686 | 3.010 | 334.4 | 543.3 | 0.944 | 5.077 | -0.34 | 0.251 | 82.9 | 86.1 | 2.6 | 0.201 |
| 4- 960 | 4-2020 | 0.362 | 239.1 | -14.7 | 1.57 | 1.305 | 100.8 | 0.687 | 3.012 | 333.5 | 544.2 | 0.941 | 5.082 | -0.32 | 0.253 | 81.0 | 85.3 | 2.7 | 0.203 |
| 4- 960 | 4-2040 | 0.367 | 240.2 | -15.1 | 1.55 | 1.305 | 101.1 | 0.689 | 3.014 | 332.6 | 545.0 | 0.938 | 5.090 | -0.30 | 0.254 | 79.1 | 84.6 | 2.7 | 0.204 |
| 4- 960 | 4-2060 | 0.372 | 241.3 | -15.4 | 1.54 | 1.305 | 101.5 | 0.690 | 3.018 | 331.7 | 545.9 | 0.935 | 5.100 | -0.29 | 0.256 | 77.3 | 84.1 | 2.7 | 0.206 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 960 | 4-2080 | 0.377 | 242.5 | -15.8 | 1.52 | 1.305 | 101.9 | 0.692 | 3.022 | 330.7 | 546.7 | 0.932 | 5.112 | -0.28 | 0.257 | 75.6 | 83.6 | 2.7 | 0.209 |
| 4- 960 | 4-2100 | 0.382 | 243.6 | -16.1 | 1.51 | 1.305 | 102.3 | 0.693 | 3.027 | 329.7 | 547.4 | 0.928 | 5.126 | -0.27 | 0.259 | 74.0 | 83.3 | 2.7 | 0.211 |
| 4- 960 | 4-2120 | 0.388 | 244.8 | -16.5 | 1.49 | 1.305 | 102.8 | 0.695 | 3.033 | 328.7 | 548.2 | 0.925 | 5.141 | -0.26 | 0.261 | 72.4 | 83.1 | 2.7 | 0.214 |
| 4- 960 | 4-2140 | 0.395 | 246.0 | -16.8 | 1.48 | 1.306 | 103.2 | 0.697 | 3.040 | 327.6 | 548.9 | 0.921 | 5.158 | -0.25 | 0.264 | 70.9 | 82.9 | 2.8 | 0.217 |
| 4- 960 | 4-2160 | 0.401 | 247.2 | -17.1 | 1.47 | 1.306 | 103.7 | 0.699 | 3.047 | 326.5 | 549.6 | 0.916 | 5.177 | -0.24 | 0.266 | 69.4 | 82.9 | 2.8 | 0.220 |
| 4- 960 | 4-2180 | 0.408 | 248.5 | -17.4 | 1.46 | 1.306 | 104.2 | 0.702 | 3.055 | 325.4 | 550.3 | 0.912 | 5.197 | -0.23 | 0.268 | 68.0 | 83.0 | 2.8 | 0.223 |
| 4- 960 | 4-2200 | 0.415 | 249.7 | -17.7 | 1.45 | 1.307 | 104.7 | 0.704 | 3.063 | 324.2 | 550.9 | 0.907 | 5.219 | -0.22 | 0.270 | 66.7 | 83.2 | 2.8 | 0.227 |
| 4- 960 | 4-2220 | 0.423 | 250.9 | -18.0 | 1.44 | 1.307 | 105.2 | 0.706 | 3.072 | 323.1 | 551.5 | 0.902 | 5.242 | -0.22 | 0.273 | 65.4 | 83.4 | 2.8 | 0.231 |
| 4- 960 | 4-2240 | 0.431 | 252.2 | -18.2 | 1.43 | 1.307 | 105.7 | 0.709 | 3.081 | 321.9 | 552.1 | 0.896 | 5.266 | -0.21 | 0.275 | 64.1 | 83.8 | 2.8 | 0.234 |
| 4- 960 | 4-2260 | 0.439 | 253.4 | -18.5 | 1.42 | 1.308 | 106.2 | 0.712 | 3.091 | 320.6 | 552.7 | 0.890 | 5.291 | -0.21 | 0.278 | 62.9 | 84.2 | 2.8 | 0.238 |
| 4- 960 | 4-2280 | 0.448 | 254.7 | -18.7 | 1.41 | 1.308 | 106.8 | 0.715 | 3.101 | 319.3 | 553.2 | 0.884 | 5.317 | -0.20 | 0.280 | 61.8 | 84.7 | 2.8 | 0.242 |
| 4- 960 | 4-2300 | 0.457 | 255.9 | -18.9 | 1.41 | 1.309 | 107.4 | 0.718 | 3.111 | 318.1 | 553.7 | 0.878 | 5.345 | -0.20 | 0.283 | 60.7 | 85.3 | 2.9 | 0.246 |
| 4- 960 | 4-2320 | 0.466 | 257.2 | -19.2 | 1.40 | 1.309 | 108.0 | 0.721 | 3.122 | 316.7 | 554.2 | 0.871 | 5.373 | -0.19 | 0.285 | 59.6 | 85.9 | 2.9 | 0.251 |
| 4- 960 | 4-2340 | 0.475 | 258.4 | -19.4 | 1.39 | 1.310 | 108.6 | 0.724 | 3.133 | 315.4 | 554.7 | 0.864 | 5.402 | -0.19 | 0.288 | 58.5 | 86.7 | 2.9 | 0.255 |
| 4- 960 | 4-2360 | 0.485 | 259.6 | -19.6 | 1.39 | 1.310 | 109.2 | 0.727 | 3.145 | 314.0 | 555.1 | 0.857 | 5.432 | -0.19 | 0.290 | 57.5 | 87.4 | 2.9 | 0.259 |
| 4- 960 | 4-2380 | 0.496 | 260.9 | -19.7 | 1.38 | 1.310 | 109.8 | 0.731 | 3.156 | 312.6 | 555.5 | 0.849 | 5.463 | -0.18 | 0.293 | 56.5 | 88.3 | 2.9 | 0.263 |
| 4- 960 | 4-2400 | 0.506 | 262.1 | -19.9 | 1.37 | 1.311 | 110.4 | 0.734 | 3.168 | 311.2 | 555.9 | 0.841 | 5.495 | -0.18 | 0.295 | 55.5 | 89.2 | 2.9 | 0.268 |
| 4- 960 | 4-2420 | 0.517 | 263.3 | -20.1 | 1.37 | 1.311 | 111.1 | 0.738 | 3.180 | 309.7 | 556.3 | 0.833 | 5.528 | -0.18 | 0.297 | 54.6 | 90.1 | 2.9 | 0.272 |
| 4- 960 | 4-2440 | 0.528 | 264.5 | -20.2 | 1.36 | 1.312 | 111.8 | 0.742 | 3.193 | 308.3 | 556.7 | 0.824 | 5.561 | -0.18 | 0.300 | 53.7 | 91.1 | 2.9 | 0.277 |
| 4- 960 | 4-2460 | 0.540 | 265.7 | -20.3 | 1.35 | 1.312 | 112.4 | 0.746 | 3.205 | 306.8 | 557.0 | 0.815 | 5.595 | -0.17 | 0.302 | 52.8 | 92.1 | 2.9 | 0.281 |
| 4- 960 | 4-2480 | 0.552 | 266.9 | -20.5 | 1.35 | 1.313 | 113.1 | 0.750 | 3.218 | 305.3 | 557.3 | 0.805 | 5.630 | -0.17 | 0.304 | 51.9 | 93.2 | 2.9 | 0.286 |
| 4- 960 | 4-2500 | 0.564 | 268.1 | -20.6 | 1.34 | 1.313 | 113.8 | 0.754 | 3.231 | 303.7 | 557.6 | 0.795 | 5.666 | -0.17 | 0.307 | 51.0 | 94.3 | 2.9 | 0.291 |
| 4- 960 | 4-2520 | 0.576 | 269.2 | -20.7 | 1.34 | 1.314 | 114.6 | 0.758 | 3.244 | 302.2 | 557.9 | 0.785 | 5.703 | -0.17 | 0.309 | 50.2 | 95.5 | 2.9 | 0.295 |
| 4- 960 | 4-2540 | 0.589 | 270.4 | -20.8 | 1.33 | 1.314 | 115.3 | 0.762 | 3.257 | 300.6 | 558.1 | 0.774 | 5.740 | -0.17 | 0.311 | 49.3 | 96.7 | 2.9 | 0.300 |
| 4- 960 | 4-2560 | 0.602 | 271.6 | -20.8 | 1.33 | 1.315 | 116.1 | 0.767 | 3.270 | 299.0 | 558.3 | 0.763 | 5.778 | -0.17 | 0.313 | 48.5 | 98.0 | 2.9 | 0.305 |
| 4- 970 | 4-1290 | 0.638 | 244.0 | -19.4 | 0.79 | 1.567 | 104.4 | 1.393 | -2.372 | 335.3 | 474.6 | 0.932 | --- | 0.60 | 0.894 | 161.7 | 110.7 | 3.1 | 0.880 |
| 4- 970 | 4-1310 | 0.589 | 242.5 | -19.1 | 0.77 | 1.529 | 103.1 | 1.285 | -3.288 | 336.7 | 477.6 | 0.939 | --- | 0.62 | 0.826 | 160.4 | 111.0 | 3.1 | 0.812 |
| 4- 970 | 4-1330 | 0.548 | 240.9 | -18.7 | 0.74 | 1.497 | 102.0 | 1.196 | -4.816 | 338.1 | 480.5 | 0.945 | --- | 0.64 | 0.765 | 159.2 | 111.4 | 3.1 | 0.751 |
| 4- 970 | 4-1350 | 0.512 | 239.2 | -18.4 | 0.71 | 1.470 | 100.9 | 1.121 | -7.841 | 339.4 | 483.5 | 0.951 | --- | 0.66 | 0.711 | 157.8 | 111.7 | 3.1 | 0.697 |
| 4- 970 | 4-1370 | 0.481 | 237.5 | -18.0 | 0.67 | 1.447 | 99.9 | 1.058 | 16.513 | 340.7 | 486.4 | 0.955 | --- | 0.69 | 0.663 | 156.4 | 111.9 | 3.1 | 0.649 |
| 4- 970 | 4-1390 | 0.455 | 235.8 | -17.7 | 0.64 | 1.427 | 99.0 | 1.004 | 34.684 | 341.9 | 489.3 | 0.960 | --- | 0.72 | 0.619 | 154.9 | 112.2 | 3.2 | 0.605 |
| 4- 970 | 4-1410 | 0.433 | 234.2 | -17.4 | 0.60 | 1.411 | 98.3 | 0.958 | 23.086 | 343.1 | 492.1 | 0.963 | --- | 0.76 | 0.580 | 153.3 | 112.3 | 3.2 | 0.565 |
| 4- 970 | 4-1430 | 0.413 | 232.6 | -17.1 | 0.56 | 1.396 | 97.5 | 0.919 | 11.929 | 344.2 | 494.8 | 0.966 | --- | 0.79 | 0.544 | 151.6 | 112.4 | 3.2 | 0.529 |
| 4- 970 | 4-1450 | 0.396 | 231.0 | -16.8 | 0.51 | 1.384 | 96.9 | 0.885 | 8.443 | 345.3 | 497.5 | 0.969 | --- | 0.84 | 0.512 | 149.8 | 112.4 | 3.3 | 0.496 |
| 4- 970 | 4-1470 | 0.382 | 229.6 | -16.6 | 0.45 | 1.373 | 96.3 | 0.856 | 6.751 | 346.3 | 500.1 | 0.971 | --- | 0.88 | 0.483 | 148.0 | 112.4 | 3.3 | 0.466 |
| 4- 970 | 4-1490 | 0.369 | 228.2 | -16.4 | 0.39 | 1.364 | 95.8 | 0.831 | 5.759 | 347.1 | 502.6 | 0.973 | --- | 0.94 | 0.456 | 146.1 | 112.2 | 3.4 | 0.438 |
| 4- 970 | 4-1510 | 0.358 | 226.9 | -16.3 | 0.32 | 1.355 | 95.4 | 0.809 | 5.110 | 347.9 | 505.0 | 0.974 | --- | 1.00 | 0.432 | 144.0 | 112.0 | 3.5 | 0.413 |
| 4- 970 | 4-1530 | 0.349 | 225.8 | -16.3 | 0.24 | 1.348 | 95.0 | 0.791 | 4.657 | 348.6 | 507.4 | 0.975 | --- | 1.07 | 0.410 | 141.9 | 111.8 | 3.5 | 0.390 |
| 4- 970 | 4-1550 | 0.341 | 224.7 | -16.3 | 0.15 | 1.342 | 94.7 | 0.774 | 4.324 | 349.3 | 509.6 | 0.976 | --- | 1.16 | 0.390 | 139.7 | 111.4 | 3.7 | 0.368 |
| 4- 970 | 4-1570 | 0.334 | 223.7 | -16.5 | 0.04 | 1.337 | 94.4 | 0.760 | 4.072 | 349.8 | 511.8 | 0.977 | --- | 1.26 | 0.372 | 137.4 | 110.9 | 3.8 | 0.349 |
| 4- 970 | 4-1590 | 0.329 | 222.9 | -16.8 | -0.09 | 1.332 | 94.2 | 0.748 | 3.875 | 350.2 | 513.9 | 0.978 | --- | 1.39 | 0.356 | 135.0 | 110.4 | 3.9 | 0.331 |
| 4- 970 | 4-1610 | 0.324 | 222.1 | -17.3 | -0.25 | 1.328 | 94.0 | 0.737 | 3.719 | 350.6 | 515.9 | 0.978 | --- | 1.54 | 0.341 | 132.6 | 109.7 | 4.1 | 0.314 |
| 4- 970 | 4-1630 | 0.319 | 221.4 | -17.9 | -0.44 | 1.325 | 93.8 | 0.728 | 3.594 | 350.9 | 517.9 | 0.979 | --- | 1.74 | 0.328 | 130.1 | 109.0 | 4.4 | 0.299 |
| 4- 970 | 4-1650 | 0.316 | 220.7 | -18.9 | -0.70 | 1.322 | 93.7 | 0.720 | 3.491 | 351.1 | 519.7 | 0.979 | --- | 1.99 | 0.316 | 127.5 | 108.2 | 4.7 | 0.285 |
| 4- 970 | 4-1670 | 0.313 | 220.1 | -20.2 | -1.05 | 1.319 | 93.7 | 0.713 | 3.406 | 351.2 | 521.5 | 0.979 | --- | 2.33 | 0.305 | 124.9 | 107.2 | 5.1 | 0.273 |
| 4- 970 | 4-1690 | 0.312 | 219.4 | -22.2 | -1.54 | 1.316 | 93.6 | 0.707 | 3.336 | 351.2 | 523.3 | 0.979 | --- | 2.82 | 0.296 | 122.2 | 106.2 | 5.6 | 0.262 |
| 4- 970 | 4-1710 | 0.312 | 218.4 | -25.3 | -2.30 | 1.314 | 93.6 | 0.701 | 3.277 | 351.2 | 524.9 | 0.979 | --- | 3.57 | 0.287 | 119.5 | 105.1 | 6.5 | 0.252 |
| 4- 970 | 4-1730 | 0.315 | 216.6 | -30.6 | -3.62 | 1.313 | 93.7 | 0.697 | 3.229 | 351.1 | 526.5 | 0.979 | --- | 4.88 | 0.280 | 116.8 | 103.9 | 8.0 | 0.244 |
| 4- 970 | 4-1750 | 0.332 | 212.5 | -41.2 | -6.46 | 1.311 | 93.7 | 0.693 | 3.188 | 350.9 | 528.0 | 0.979 | --- | 7.72 | 0.274 | 114.1 | 102.5 | 11.1 | 0.238 |
| 4- 970 | 4-1770 | 0.458 | 186.8 | -68.7 | -17.07 | 1.310 | 93.8 | 0.690 | 3.153 | 350.7 | 529.5 | 0.979 | --- | 18.32 | 0.269 | 111.3 | 100.0 | 21.3 | 0.250 |
| 4- 970 | 4-1790 | 0.804 | 274.1 | 59.9 | 37.69 | 1.309 | 94.0 | 0.687 | 3.125 | 350.2 | 530.9 | 0.978 | --- | -36.45 | 0.264 | 108.7 | 94.9 | -26.3 | 0.304 |
| 4- 970 | 4-1810 | 0.377 | 236.9 | 23.1 | 11.12 | 1.308 | 94.1 | 0.685 | 3.101 | 350.0 | 532.3 | 0.978 | --- | -9.88 | 0.261 | 106.0 | 98.2 | -8.1 | 0.223 |
| 4- 970 | 4-1830 | 0.334 | 232.5 | 9.8 | 6.87 | 1.307 | 94.2 | 0.683 | 3.081 | 349.6 | 533.6 | 0.977 | --- | -5.64 | 0.258 | 103.4 | 97.1 | -3.6 | 0.213 |
| 4- 970 | 4-1850 | 0.322 | 231.2 | 3.4 | 5.17 | 1.306 | 94.4 | 0.681 | 3.065 | 349.1 | 534.8 | 0.977 | --- | -3.94 | 0.255 | 100.8 | 95.8 | -1.7 | 0.208 |
| 4- 970 | 4-1870 | 0.317 | 230.9 | -0.3 | 4.25 | 1.306 | 94.6 | 0.680 | 3.052 | 348.6 | 536.0 | 0.976 | --- | -3.03 | 0.254 | 98.3 | 94.5 | -0.7 | 0.204 |
| 4- 970 | 4-1890 | 0.315 | 231.1 | -2.8 | 3.67 | 1.305 | 94.8 | 0.679 | 3.041 | 348.1 | 537.2 | 0.975 | --- | -2.46 | 0.253 | 95.9 | 93.2 | 0.0 | 0.202 |
| 4- 970 | 4-1910 | 0.315 | 231.6 | -4.7 | 3.28 | 1.305 | 95.1 | 0.679 | 3.033 | 347.5 | 538.3 | 0.974 | --- | -2.07 | 0.252 | 93.5 | 91.9 | 0.5 | 0.200 |
| 4- 970 | 4-1930 | 0.315 | 232.3 | -6.1 | 2.99 | 1.305 | 95.3 | 0.679 | 3.028 | 346.8 | 539.4 | 0.973 | --- | -1.79 | 0.252 | 91.2 | 90.7 | 0.8 | 0.199 |
| 4- 970 | 4-1950 | 0.316 | 233.1 | -7.3 | 2.77 | 1.305 | 95.6 | 0.678 | 3.024 | 346.1 | 540.5 | 0.972 | 5.075 | -1.57 | 0.252 | 89.0 | 89.6 | 1.1 | 0.198 |
| 4- 970 | 4-1970 | 0.318 | 234.1 | -8.4 | 2.60 | 1.305 | 95.9 | 0.679 | 3.021 | 345.4 | 541.5 | 0.971 | 5.072 | -1.41 | 0.252 | 86.9 | 88.5 | 1.3 | 0.198 |
| 4- 970 | 4-1990 | 0.320 | 235.1 | -9.3 | 2.46 | 1.305 | 96.2 | 0.679 | 3.021 | 344.6 | 542.4 | 0.970 | 5.072 | -1.27 | 0.253 | 84.9 | 87.6 | 1.4 | 0.198 |
| 4- 970 | 4-2010 | 0.322 | 236.2 | -10.1 | 2.34 | 1.305 | 96.6 | 0.680 | 3.021 | 343.8 | 543.4 | 0.968 | 5.074 | -1.16 | 0.254 | 82.9 | 86.7 | 1.6 | 0.199 |
| 4- 970 | 4-2030 | 0.325 | 237.4 | -10.9 | 2.24 | 1.305 | 96.9 | 0.680 | 3.023 | 342.9 | 544.3 | 0.966 | 5.080 | -1.07 | 0.255 | 81.1 | 86.0 | 1.7 | 0.200 |
| 4- 970 | 4-2050 | 0.328 | 238.6 | -11.6 | 2.16 | 1.305 | 97.3 | 0.681 | 3.026 | 342.0 | 545.1 | 0.964 | 5.087 | -0.99 | 0.257 | 79.3 | 85.3 | 1.8 | 0.202 |
| 4- 970 | 4-2070 | 0.332 | 239.9 | -12.2 | 2.09 | 1.305 | 97.7 | 0.682 | 3.030 | 341.1 | 546.0 | 0.962 | 5.097 | -0.93 | 0.259 | 77.5 | 84.8 | 1.9 | 0.204 |
| 4- 970 | 4-2090 | 0.336 | 241.2 | -12.9 | 2.02 | 1.305 | 98.1 | 0.684 | 3.034 | 340.1 | 546.8 | 0.960 | 5.109 | -0.87 | 0.260 | 75.9 | 84.4 | 2.0 | 0.206 |
| 4- 970 | 4-2110 | 0.340 | 242.5 | -13.4 | 1.97 | 1.305 | 98.5 | 0.685 | 3.040 | 339.1 | 547.6 | 0.958 | 5.122 | -0.82 | 0.262 | 74.3 | 84.1 | 2.1 | 0.208 |
| 4- 970 | 4-2130 | 0.345 | 243.9 | -14.0 | 1.92 | 1.306 | 98.9 | 0.686 | 3.046 | 338.1 | 548.3 | 0.955 | 5.137 | -0.77 | 0.265 | 72.8 | 83.9 | 2.1 | 0.211 |
| 4- 970 | 4-2150 | 0.350 | 245.3 | -14.5 | 1.87 | 1.306 | 99.3 | 0.688 | 3.053 | 337.0 | 549.0 | 0.952 | 5.154 | -0.74 | 0.267 | 71.4 | 83.8 | 2.2 | 0.213 |
| 4- 970 | 4-2170 | 0.355 | 246.7 | -15.0 | 1.83 | 1.306 | 99.8 | 0.690 | 3.061 | 336.0 | 549.7 | 0.949 | 5.172 | -0.70 | 0.269 | 70.0 | 83.7 | 2.2 | 0.216 |
| 4- 970 | 4-2190 | 0.361 | 248.2 | -15.5 | 1.79 | 1.307 | 100.3 | 0.692 | 3.069 | 334.8 | 550.4 | 0.946 | 5.192 | -0.67 | 0.271 | 68.6 | 83.8 | 2.3 | 0.220 |
| 4- 970 | 4-2210 | 0.367 | 249.6 | -15.9 | 1.76 | 1.307 | 100.7 | 0.694 | 3.077 | 333.7 | 551.1 | 0.942 | 5.213 | -0.64 | 0.274 | 67.4 | 84.0 | 2.3 | 0.223 |
| 4- 970 | 4-2230 | 0.373 | 251.1 | -16.3 | 1.72 | 1.307 | 101.2 | 0.696 | 3.086 | 332.5 | 551.7 | 0.938 | 5.235 | -0.62 | 0.276 | 66.1 | 84.3 | 2.4 | 0.226 |
| 4- 970 | 4-2250 | 0.379 | 252.5 | -16.7 | 1.69 | 1.308 | 101.7 | 0.698 | 3.096 | 331.3 | 552.3 | 0.934 | 5.258 | -0.59 | 0.278 | 64.9 | 84.6 | 2.4 | 0.230 |
| 4- 970 | 4-2270 | 0.386 | 254.0 | -17.1 | 1.67 | 1.308 | 102.3 | 0.701 | 3.106 | 330.1 | 552.9 | 0.930 | 5.282 | -0.57 | 0.281 | 63.8 | 85.0 | 2.4 | 0.233 |
| 4- 970 | 4-2290 | 0.394 | 255.4 | -17.4 | 1.64 | 1.308 | 102.8 | 0.703 | 3.116 | 328.8 | 553.4 | 0.925 | 5.307 | -0.56 | 0.283 | 62.7 | 85.5 | 2.5 | 0.237 |
| 4- 970 | 4-2310 | 0.401 | 256.9 | -17.7 | 1.62 | 1.309 | 103.3 | 0.706 | 3.127 | 327.6 | 553.9 | 0.920 | 5.333 | -0.54 | 0.286 | 61.6 | 86.1 | 2.5 | 0.241 |
| 4- 970 | 4-2330 | 0.409 | 258.4 | -18.0 | 1.59 | 1.309 | 103.9 | 0.708 | 3.138 | 326.3 | 554.5 | 0.915 | 5.360 | -0.52 | 0.288 | 60.6 | 86.8 | 2.5 | 0.245 |
| 4- 970 | 4-2350 | 0.418 | 259.8 | -18.3 | 1.57 | 1.310 | 104.5 | 0.711 | 3.149 | 324.9 | 554.9 | 0.910 | 5.389 | -0.51 | 0.291 | 59.6 | 87.5 | 2.6 | 0.249 |
| 4- 970 | 4-2370 | 0.426 | 261.3 | -18.6 | 1.55 | 1.310 | 105.1 | 0.714 | 3.161 | 323.6 | 555.4 | 0.904 | 5.417 | -0.50 | 0.293 | 58.7 | 88.2 | 2.6 | 0.253 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 970 | 4-2390 | 0.436 | 262.7 | -18.8 | 1.53 | 1.311 | 105.7 | 0.717 | 3.172 | 322.2 | 555.9 | 0.898 | 5.447 | -0.48 | 0.296 | 57.7 | 89.0 | 2.6 | 0.257 |
| 4- 970 | 4-2410 | 0.445 | 264.1 | -19.0 | 1.51 | 1.311 | 106.3 | 0.720 | 3.184 | 320.8 | 556.3 | 0.891 | 5.478 | -0.47 | 0.298 | 56.8 | 89.9 | 2.6 | 0.261 |
| 4- 970 | 4-2430 | 0.455 | 265.5 | -19.2 | 1.50 | 1.312 | 106.9 | 0.723 | 3.197 | 319.4 | 556.7 | 0.884 | 5.509 | -0.46 | 0.300 | 55.9 | 90.9 | 2.6 | 0.265 |
| 4- 970 | 4-2450 | 0.465 | 266.9 | -19.4 | 1.48 | 1.312 | 107.5 | 0.727 | 3.209 | 317.9 | 557.1 | 0.877 | 5.541 | -0.45 | 0.303 | 55.1 | 91.8 | 2.6 | 0.269 |
| 4- 970 | 4-2470 | 0.475 | 268.3 | -19.6 | 1.46 | 1.312 | 108.2 | 0.730 | 3.222 | 316.5 | 557.4 | 0.870 | 5.574 | -0.45 | 0.305 | 54.2 | 92.8 | 2.7 | 0.273 |
| 4- 970 | 4-2490 | 0.486 | 269.7 | -19.7 | 1.45 | 1.313 | 108.9 | 0.734 | 3.235 | 315.0 | 557.8 | 0.862 | 5.607 | -0.44 | 0.307 | 53.4 | 93.9 | 2.7 | 0.278 |
| 4- 970 | 4-2510 | 0.497 | 271.0 | -19.9 | 1.43 | 1.313 | 109.5 | 0.737 | 3.248 | 313.5 | 558.1 | 0.854 | 5.642 | -0.43 | 0.309 | 52.6 | 95.0 | 2.7 | 0.282 |
| 4- 970 | 4-2530 | 0.508 | 272.3 | -20.0 | 1.42 | 1.314 | 110.2 | 0.741 | 3.261 | 312.0 | 558.4 | 0.845 | 5.677 | -0.43 | 0.312 | 51.8 | 96.2 | 2.7 | 0.286 |
| 4- 970 | 4-2550 | 0.520 | 273.7 | -20.1 | 1.40 | 1.314 | 110.9 | 0.745 | 3.274 | 310.4 | 558.7 | 0.836 | 5.712 | -0.42 | 0.314 | 51.0 | 97.3 | 2.7 | 0.291 |
| 4- 970 | 4-2570 | 0.532 | 275.0 | -20.2 | 1.39 | 1.315 | 111.6 | 0.749 | 3.288 | 308.8 | 558.9 | 0.827 | 5.749 | -0.41 | 0.316 | 50.3 | 98.6 | 2.7 | 0.295 |
| 4- 980 | 4-1280 | 0.632 | 243.7 | -19.5 | 0.68 | 1.601 | 100.3 | 1.511 | -1.877 | 342.9 | 471.2 | 0.959 | --- | 0.77 | 0.954 | 162.2 | 111.2 | 3.1 | 0.937 |
| 4- 980 | 4-1300 | 0.580 | 241.7 | -19.1 | 0.65 | 1.557 | 99.1 | 1.380 | -2.539 | 344.4 | 474.3 | 0.964 | --- | 0.79 | 0.878 | 161.0 | 111.5 | 3.1 | 0.862 |
| 4- 980 | 4-1320 | 0.536 | 239.7 | -18.7 | 0.62 | 1.520 | 97.9 | 1.272 | -3.565 | 345.9 | 477.4 | 0.968 | --- | 0.81 | 0.811 | 159.8 | 111.9 | 3.1 | 0.795 |
| 4- 980 | 4-1340 | 0.499 | 237.6 | -18.3 | 0.59 | 1.489 | 96.9 | 1.182 | -5.335 | 347.3 | 480.5 | 0.972 | --- | 0.83 | 0.752 | 158.5 | 112.2 | 3.2 | 0.736 |
| 4- 980 | 4-1360 | 0.468 | 235.4 | -17.9 | 0.56 | 1.463 | 95.9 | 1.107 | -9.077 | 348.8 | 483.5 | 0.975 | --- | 0.85 | 0.699 | 157.2 | 112.4 | 3.2 | 0.683 |
| 4- 980 | 4-1380 | 0.441 | 233.3 | -17.4 | 0.52 | 1.441 | 95.0 | 1.045 | 21.946 | 350.2 | 486.5 | 0.977 | --- | 0.87 | 0.652 | 155.7 | 112.6 | 3.2 | 0.635 |
| 4- 980 | 4-1400 | 0.418 | 231.2 | -17.0 | 0.49 | 1.422 | 94.2 | 0.991 | 14.817 | 351.5 | 489.4 | 0.979 | --- | 0.90 | 0.609 | 154.2 | 112.8 | 3.2 | 0.593 |
| 4- 980 | 4-1420 | 0.399 | 229.2 | -16.5 | 0.45 | 1.406 | 93.5 | 0.946 | 18.289 | 352.8 | 492.3 | 0.981 | --- | 0.93 | 0.570 | 152.6 | 112.9 | 3.3 | 0.554 |
| 4- 980 | 4-1440 | 0.383 | 227.2 | -16.1 | 0.41 | 1.392 | 92.9 | 0.908 | 10.665 | 353.9 | 495.1 | 0.982 | --- | 0.96 | 0.535 | 150.9 | 112.9 | 3.3 | 0.518 |
| 4- 980 | 4-1460 | 0.369 | 225.4 | -15.7 | 0.36 | 1.380 | 92.3 | 0.875 | 7.865 | 355.0 | 497.9 | 0.983 | --- | 1.00 | 0.504 | 149.1 | 112.9 | 3.4 | 0.486 |
| 4- 980 | 4-1480 | 0.357 | 223.6 | -15.4 | 0.31 | 1.369 | 91.8 | 0.847 | 6.420 | 356.1 | 500.5 | 0.984 | --- | 1.04 | 0.475 | 147.2 | 112.8 | 3.4 | 0.456 |
| 4- 980 | 4-1500 | 0.347 | 222.0 | -15.1 | 0.26 | 1.360 | 91.4 | 0.822 | 5.545 | 357.0 | 503.1 | 0.984 | --- | 1.08 | 0.449 | 145.3 | 112.6 | 3.5 | 0.429 |
| 4- 980 | 4-1520 | 0.338 | 220.6 | -14.9 | 0.20 | 1.353 | 91.0 | 0.802 | 4.961 | 357.8 | 505.5 | 0.985 | --- | 1.13 | 0.425 | 143.2 | 112.4 | 3.5 | 0.405 |
| 4- 980 | 4-1540 | 0.331 | 219.3 | -14.8 | 0.14 | 1.346 | 90.7 | 0.783 | 4.547 | 358.5 | 507.9 | 0.985 | --- | 1.19 | 0.404 | 141.1 | 112.1 | 3.6 | 0.382 |
| 4- 980 | 4-1560 | 0.325 | 218.1 | -14.7 | 0.07 | 1.340 | 90.4 | 0.768 | 4.241 | 359.1 | 510.2 | 0.985 | --- | 1.25 | 0.385 | 138.8 | 111.6 | 3.7 | 0.361 |
| 4- 980 | 4-1580 | 0.320 | 217.1 | -14.7 | -0.01 | 1.335 | 90.1 | 0.754 | 4.007 | 359.7 | 512.4 | 0.985 | --- | 1.32 | 0.367 | 136.5 | 111.1 | 3.8 | 0.342 |
| 4- 980 | 4-1600 | 0.315 | 216.2 | -14.8 | -0.10 | 1.330 | 90.0 | 0.742 | 3.824 | 0.1 | 154.5 | --- | --- | 1.39 | 0.351 | 134.1 | 110.6 | 4.0 | 0.325 |
| 4- 980 | 4-1620 | 0.311 | 215.4 | -15.0 | -0.20 | 1.326 | 89.8 | 0.732 | 3.678 | 0.5 | 156.5 | --- | --- | 1.48 | 0.337 | 131.6 | 109.9 | 4.1 | 0.309 |
| 4- 980 | 4-1640 | 0.308 | 214.8 | -15.3 | -0.31 | 1.323 | 89.7 | 0.723 | 3.560 | 0.7 | 158.4 | --- | --- | 1.59 | 0.324 | 129.1 | 109.1 | 4.3 | 0.294 |
| 4- 980 | 4-1660 | 0.305 | 214.3 | -15.8 | -0.44 | 1.320 | 89.6 | 0.716 | 3.463 | 0.9 | 160.3 | --- | --- | 1.71 | 0.312 | 126.5 | 108.2 | 4.4 | 0.281 |
| 4- 980 | 4-1680 | 0.302 | 213.9 | -16.4 | -0.60 | 1.317 | 89.6 | 0.709 | 3.384 | 1.0 | 162.0 | --- | --- | 1.86 | 0.302 | 123.9 | 107.3 | 4.7 | 0.269 |
| 4- 980 | 4-1700 | 0.300 | 213.6 | -17.1 | -0.78 | 1.315 | 89.6 | 0.703 | 3.318 | 1.0 | 163.7 | --- | --- | 2.03 | 0.293 | 121.2 | 106.2 | 4.9 | 0.258 |
| 4- 980 | 4-1720 | 0.299 | 213.3 | -18.1 | -1.01 | 1.313 | 89.6 | 0.698 | 3.263 | 1.0 | 165.4 | --- | --- | 2.25 | 0.285 | 118.5 | 105.1 | 5.2 | 0.248 |
| 4- 980 | 4-1740 | 0.297 | 213.1 | -19.3 | -1.28 | 1.311 | 89.6 | 0.694 | 3.217 | 0.9 | 167.0 | --- | --- | 2.51 | 0.279 | 115.8 | 103.9 | 5.6 | 0.239 |
| 4- 980 | 4-1760 | 0.297 | 212.9 | -20.9 | -1.63 | 1.310 | 89.7 | 0.690 | 3.178 | 0.7 | 168.5 | --- | --- | 2.86 | 0.273 | 113.1 | 102.6 | 6.1 | 0.231 |
| 4- 980 | 4-1780 | 0.297 | 212.6 | -23.0 | -2.10 | 1.309 | 89.8 | 0.687 | 3.146 | 0.4 | 169.9 | --- | --- | 3.31 | 0.268 | 110.4 | 101.3 | 6.7 | 0.225 |
| 4- 980 | 4-1800 | 0.298 | 212.1 | -25.9 | -2.74 | 1.308 | 90.0 | 0.684 | 3.119 | 0.1 | 171.3 | --- | --- | 3.95 | 0.264 | 107.7 | 100.0 | 7.5 | 0.219 |
| 4- 980 | 4-1820 | 0.301 | 211.2 | -30.0 | -3.70 | 1.307 | 90.1 | 0.682 | 3.097 | 359.7 | 532.6 | 0.985 | --- | 4.89 | 0.260 | 105.1 | 98.6 | 8.8 | 0.215 |
| 4- 980 | 4-1840 | 0.310 | 209.2 | -36.3 | -5.25 | 1.306 | 90.3 | 0.680 | 3.079 | 359.3 | 533.9 | 0.985 | --- | 6.44 | 0.258 | 102.5 | 97.2 | 10.7 | 0.212 |
| 4- 980 | 4-1860 | 0.335 | 204.1 | -47.0 | -8.26 | 1.306 | 90.5 | 0.679 | 3.064 | 358.9 | 536.2 | 0.985 | --- | 9.43 | 0.256 | 100.0 | 95.7 | 14.3 | 0.212 |
| 4- 980 | 4-1880 | 0.438 | 180.7 | -66.6 | -16.38 | 1.305 | 90.7 | 0.677 | 3.052 | 358.4 | 536.4 | 0.985 | --- | 17.55 | 0.254 | 97.6 | 93.8 | 22.7 | 0.226 |
| 4- 980 | 4-1900 | 1.389 | 58.5 | -45.9 | -72.36 | 1.305 | 90.7 | 0.676 | 3.043 | 358.2 | 537.5 | 0.985 | --- | 73.52 | 0.253 | 95.2 | 87.3 | 35.7 | 0.449 |
| 4- 980 | 4-1920 | 0.532 | 248.5 | 48.3 | 22.35 | 1.304 | 91.2 | 0.676 | 3.036 | 356.9 | 538.6 | 0.984 | --- | -21.20 | 0.253 | 92.9 | 91.3 | -20.0 | 0.234 |
| 4- 980 | 4-1940 | 0.372 | 236.9 | 25.9 | 11.52 | 1.304 | 91.5 | 0.675 | 3.031 | 356.3 | 539.7 | 0.984 | --- | -10.38 | 0.253 | 90.7 | 90.7 | -9.7 | 0.206 |
| 4- 980 | 4-1960 | 0.333 | 234.0 | 14.6 | 7.97 | 1.304 | 91.8 | 0.675 | 3.028 | 355.6 | 540.7 | 0.984 | 5.072 | -6.84 | 0.253 | 88.5 | 89.8 | -5.6 | 0.201 |
| 4- 980 | 4-1980 | 0.318 | 233.2 | 8.0 | 6.21 | 1.304 | 92.1 | 0.675 | 3.027 | 354.9 | 541.7 | 0.983 | 5.070 | -5.09 | 0.254 | 86.5 | 88.8 | -3.4 | 0.199 |
| 4- 980 | 4-2000 | 0.312 | 233.3 | 3.6 | 5.17 | 1.304 | 92.4 | 0.675 | 3.027 | 354.1 | 542.7 | 0.983 | 5.070 | -4.06 | 0.255 | 84.5 | 87.9 | -2.1 | 0.198 |
| 4- 980 | 4-2020 | 0.309 | 233.8 | 0.5 | 4.48 | 1.304 | 92.7 | 0.676 | 3.028 | 353.3 | 543.6 | 0.982 | 5.073 | -3.37 | 0.256 | 82.6 | 87.1 | -1.2 | 0.199 |
| 4- 980 | 4-2040 | 0.308 | 234.6 | -1.9 | 3.98 | 1.304 | 93.1 | 0.676 | 3.030 | 352.4 | 544.5 | 0.981 | 5.079 | -2.89 | 0.257 | 80.8 | 86.4 | -0.6 | 0.199 |
| 4- 980 | 4-2060 | 0.308 | 235.7 | -3.9 | 3.61 | 1.304 | 93.4 | 0.677 | 3.034 | 351.5 | 545.3 | 0.981 | 5.087 | -2.52 | 0.259 | 79.1 | 85.8 | -0.1 | 0.201 |
| 4- 980 | 4-2080 | 0.309 | 236.9 | -5.6 | 3.32 | 1.304 | 93.8 | 0.678 | 3.038 | 350.6 | 546.2 | 0.979 | 5.097 | -2.24 | 0.261 | 77.4 | 85.3 | 0.2 | 0.202 |
| 4- 980 | 4-2100 | 0.310 | 238.2 | -6.9 | 3.09 | 1.305 | 94.2 | 0.679 | 3.043 | 349.6 | 547.0 | 0.978 | 5.108 | -2.02 | 0.263 | 75.8 | 84.9 | 0.5 | 0.204 |
| 4- 980 | 4-2120 | 0.312 | 239.6 | -8.1 | 2.90 | 1.305 | 94.6 | 0.680 | 3.049 | 348.6 | 547.7 | 0.977 | 5.122 | -1.84 | 0.265 | 74.3 | 84.6 | 0.8 | 0.207 |
| 4- 980 | 4-2140 | 0.315 | 241.1 | -9.2 | 2.74 | 1.305 | 95.0 | 0.681 | 3.056 | 347.6 | 548.5 | 0.976 | 5.137 | -1.69 | 0.267 | 72.9 | 84.4 | 1.0 | 0.209 |
| 4- 980 | 4-2160 | 0.318 | 242.6 | -10.2 | 2.60 | 1.306 | 95.5 | 0.682 | 3.063 | 346.5 | 549.2 | 0.974 | 5.153 | -1.56 | 0.269 | 71.5 | 84.4 | 1.2 | 0.212 |
| 4- 980 | 4-2180 | 0.321 | 244.2 | -11.1 | 2.48 | 1.306 | 95.9 | 0.684 | 3.071 | 345.4 | 549.9 | 0.972 | 5.171 | -1.46 | 0.271 | 70.2 | 84.4 | 1.3 | 0.214 |
| 4- 980 | 4-2200 | 0.325 | 245.8 | -11.9 | 2.38 | 1.306 | 96.4 | 0.685 | 3.080 | 344.3 | 550.6 | 0.970 | 5.190 | -1.36 | 0.274 | 68.9 | 84.5 | 1.5 | 0.217 |
| 4- 980 | 4-2220 | 0.329 | 247.5 | -12.7 | 2.29 | 1.307 | 96.9 | 0.687 | 3.089 | 343.1 | 551.2 | 0.968 | 5.210 | -1.28 | 0.276 | 67.7 | 84.7 | 1.6 | 0.220 |
| 4- 980 | 4-2240 | 0.333 | 249.1 | -13.4 | 2.21 | 1.307 | 97.3 | 0.688 | 3.098 | 342.0 | 551.9 | 0.965 | 5.232 | -1.21 | 0.279 | 66.5 | 85.0 | 1.7 | 0.223 |
| 4- 980 | 4-2260 | 0.338 | 250.8 | -14.0 | 2.13 | 1.307 | 97.8 | 0.690 | 3.108 | 340.8 | 552.5 | 0.962 | 5.254 | -1.15 | 0.281 | 65.4 | 85.3 | 1.8 | 0.227 |
| 4- 980 | 4-2280 | 0.344 | 252.5 | -14.6 | 2.07 | 1.308 | 98.3 | 0.692 | 3.119 | 339.6 | 553.1 | 0.960 | 5.278 | -1.09 | 0.284 | 64.3 | 85.8 | 1.8 | 0.230 |
| 4- 980 | 4-2300 | 0.349 | 254.2 | -15.2 | 2.01 | 1.308 | 98.9 | 0.694 | 3.129 | 338.3 | 553.6 | 0.956 | 5.302 | -1.04 | 0.286 | 63.3 | 86.3 | 1.9 | 0.234 |
| 4- 980 | 4-2320 | 0.355 | 256.0 | -15.7 | 1.96 | 1.309 | 99.4 | 0.697 | 3.140 | 337.0 | 554.2 | 0.953 | 5.327 | -1.00 | 0.288 | 62.3 | 86.8 | 2.0 | 0.237 |
| 4- 980 | 4-2340 | 0.362 | 257.7 | -16.1 | 1.90 | 1.309 | 99.9 | 0.699 | 3.151 | 335.8 | 554.7 | 0.949 | 5.354 | -0.96 | 0.291 | 61.3 | 87.5 | 2.0 | 0.241 |
| 4- 980 | 4-2360 | 0.369 | 259.4 | -16.6 | 1.86 | 1.309 | 100.5 | 0.701 | 3.163 | 334.4 | 555.2 | 0.945 | 5.381 | -0.92 | 0.293 | 60.4 | 88.2 | 2.1 | 0.244 |
| 4- 980 | 4-2380 | 0.376 | 261.1 | -17.0 | 1.81 | 1.310 | 101.1 | 0.704 | 3.175 | 333.1 | 555.7 | 0.941 | 5.408 | -0.89 | 0.296 | 59.5 | 89.0 | 2.2 | 0.248 |
| 4- 980 | 4-2400 | 0.383 | 262.8 | -17.3 | 1.77 | 1.310 | 101.6 | 0.706 | 3.187 | 331.7 | 556.1 | 0.936 | 5.437 | -0.86 | 0.298 | 58.6 | 89.8 | 2.2 | 0.252 |
| 4- 980 | 4-2420 | 0.391 | 264.4 | -17.6 | 1.74 | 1.311 | 102.2 | 0.709 | 3.199 | 330.4 | 556.6 | 0.931 | 5.467 | -0.84 | 0.300 | 57.8 | 90.6 | 2.2 | 0.256 |
| 4- 980 | 4-2440 | 0.399 | 266.1 | -17.9 | 1.70 | 1.311 | 102.8 | 0.712 | 3.211 | 329.0 | 557.0 | 0.926 | 5.497 | -0.81 | 0.303 | 56.9 | 91.6 | 2.3 | 0.260 |
| 4- 980 | 4-2460 | 0.408 | 267.7 | -18.2 | 1.67 | 1.312 | 103.5 | 0.714 | 3.224 | 327.5 | 557.4 | 0.921 | 5.528 | -0.79 | 0.305 | 56.1 | 92.5 | 2.3 | 0.263 |
| 4- 980 | 4-2480 | 0.417 | 269.4 | -18.4 | 1.63 | 1.312 | 104.1 | 0.717 | 3.237 | 326.1 | 557.8 | 0.915 | 5.559 | -0.77 | 0.307 | 55.3 | 93.5 | 2.3 | 0.267 |
| 4- 980 | 4-2500 | 0.426 | 271.0 | -18.7 | 1.60 | 1.313 | 104.7 | 0.720 | 3.250 | 324.6 | 558.1 | 0.909 | 5.591 | -0.75 | 0.310 | 54.6 | 94.6 | 2.4 | 0.271 |
| 4- 980 | 4-2520 | 0.436 | 272.5 | -18.8 | 1.57 | 1.313 | 105.4 | 0.724 | 3.263 | 323.1 | 558.5 | 0.902 | 5.624 | -0.73 | 0.312 | 53.8 | 95.7 | 2.4 | 0.275 |
| 4- 980 | 4-2540 | 0.446 | 274.1 | -19.0 | 1.55 | 1.314 | 106.0 | 0.727 | 3.277 | 321.6 | 558.8 | 0.895 | 5.658 | -0.72 | 0.314 | 53.1 | 96.8 | 2.4 | 0.279 |
| 4- 980 | 4-2560 | 0.456 | 275.6 | -19.1 | 1.52 | 1.314 | 106.7 | 0.730 | 3.290 | 320.1 | 559.1 | 0.888 | 5.692 | -0.70 | 0.316 | 52.4 | 98.0 | 2.4 | 0.283 |
| 4- 980 | 4-2580 | 0.467 | 277.1 | -19.3 | 1.49 | 1.315 | 107.4 | 0.733 | 3.304 | 318.6 | 559.4 | 0.881 | 5.727 | -0.69 | 0.318 | 51.7 | 99.2 | 2.4 | 0.287 |
| 4- 990 | 4-1270 | 0.641 | 241.7 | -19.3 | 0.62 | 1.639 | 95.7 | 1.645 | -1.517 | 350.8 | 468.2 | 0.978 | --- | 0.90 | 1.018 | 162.7 | 111.5 | 3.1 | 0.998 |
| 4- 990 | 4-1290 | 0.585 | 239.4 | -18.8 | 0.59 | 1.588 | 94.6 | 1.485 | -2.023 | 352.4 | 471.4 | 0.981 | --- | 0.91 | 0.933 | 161.6 | 111.9 | 3.1 | 0.915 |
| 4- 990 | 4-1310 | 0.539 | 236.9 | -18.3 | 0.56 | 1.546 | 93.5 | 1.355 | -2.769 | 354.0 | 474.6 | 0.983 | --- | 0.93 | 0.859 | 160.5 | 112.2 | 3.2 | 0.841 |
| 4- 990 | 4-1330 | 0.501 | 234.4 | -17.8 | 0.53 | 1.510 | 92.4 | 1.249 | -3.957 | 355.6 | 477.8 | 0.985 | --- | 0.94 | 0.794 | 159.3 | 112.5 | 3.2 | 0.777 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| BEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 990 | 4-1350 | 0.469 | 231.8 | -17.2 | 0.50 | 1.480 | 91.5 | 1.161 | -6.118 | 357.2 | 480.9 | 0.986 | --- | 0.96 | 0.736 | 158.0 | 112.7 | 3.2 | 0.719 |
| 4- 990 | 4-1370 | 0.442 | 229.2 | -16.6 | 0.47 | 1.455 | 90.7 | 1.088 | 11.186 | 358.7 | 484.1 | 0.986 | --- | 0.98 | 0.684 | 156.6 | 112.9 | 3.2 | 0.667 |
| 4- 990 | 4-1390 | 0.420 | 226.7 | -16.0 | 0.43 | 1.434 | 89.9 | 1.027 | 36.372 | 0.2 | 127.2 | --- | --- | 1.00 | 0.638 | 155.1 | 113.1 | 3.3 | 0.621 |
| 4- 990 | 4-1410 | 0.402 | 224.3 | -15.4 | 0.40 | 1.415 | 89.2 | 0.976 | 40.758 | 1.6 | 130.2 | --- | --- | 1.02 | 0.596 | 153.6 | 113.2 | 3.3 | 0.579 |
| 4- 990 | 4-1430 | 0.386 | 222.0 | -14.8 | 0.36 | 1.400 | 88.6 | 0.932 | 14.581 | 2.9 | 133.2 | --- | --- | 1.05 | 0.558 | 152.0 | 113.2 | 3.3 | 0.541 |
| 4- 990 | 4-1450 | 0.376 | 219.9 | -14.3 | 0.32 | 1.386 | 88.0 | 0.896 | 9.433 | 4.2 | 136.0 | --- | --- | 1.07 | 0.524 | 150.2 | 113.2 | 3.4 | 0.506 |
| 4- 990 | 4-1470 | 0.363 | 217.9 | -13.8 | 0.28 | 1.375 | 87.5 | 0.864 | 7.248 | 5.3 | 138.8 | --- | --- | 1.10 | 0.493 | 148.4 | 113.1 | 3.4 | 0.475 |
| 4- 990 | 4-1490 | 0.354 | 216.1 | -13.4 | 0.23 | 1.365 | 87.1 | 0.837 | 6.048 | 6.3 | 141.5 | --- | --- | 1.13 | 0.465 | 146.5 | 113.0 | 3.5 | 0.446 |
| 4- 990 | 4-1510 | 0.347 | 214.4 | -13.0 | 0.18 | 1.356 | 86.7 | 0.814 | 5.294 | 7.3 | 144.0 | --- | --- | 1.17 | 0.440 | 144.5 | 112.7 | 3.5 | 0.420 |
| 4- 990 | 4-1530 | 0.340 | 213.0 | -12.7 | 0.13 | 1.349 | 86.4 | 0.795 | 4.781 | 8.1 | 146.5 | --- | --- | 1.20 | 0.417 | 142.4 | 112.4 | 3.6 | 0.396 |
| 4- 990 | 4-1550 | 0.335 | 211.7 | -12.5 | 0.08 | 1.342 | 86.1 | 0.778 | 4.412 | 8.8 | 148.9 | --- | --- | 1.24 | 0.396 | 140.2 | 112.0 | 3.7 | 0.374 |
| 4- 990 | 4-1570 | 0.331 | 210.6 | -12.4 | 0.02 | 1.336 | 85.9 | 0.763 | 4.135 | 9.4 | 151.1 | --- | --- | 1.29 | 0.377 | 138.0 | 111.6 | 3.8 | 0.354 |
| 4- 990 | 4-1590 | 0.327 | 209.7 | -12.3 | -0.04 | 1.332 | 85.7 | 0.750 | 3.923 | 10.0 | 153.3 | --- | --- | 1.34 | 0.360 | 135.6 | 111.0 | 3.9 | 0.335 |
| 4- 990 | 4-1610 | 0.323 | 208.9 | -12.3 | -0.11 | 1.327 | 85.6 | 0.739 | 3.755 | 10.4 | 155.4 | --- | --- | 1.39 | 0.345 | 133.2 | 110.3 | 4.0 | 0.318 |
| 4- 990 | 4-1630 | 0.320 | 208.2 | -12.4 | -0.18 | 1.324 | 85.5 | 0.730 | 3.621 | 10.7 | 157.4 | --- | --- | 1.45 | 0.331 | 130.7 | 109.6 | 4.1 | 0.303 |
| 4- 990 | 4-1650 | 0.317 | 207.7 | -12.6 | -0.26 | 1.320 | 85.4 | 0.721 | 3.512 | 10.9 | 159.3 | --- | --- | 1.52 | 0.318 | 128.1 | 108.8 | 4.2 | 0.289 |
| 4- 990 | 4-1670 | 0.315 | 207.3 | -12.8 | -0.35 | 1.317 | 85.4 | 0.714 | 3.423 | 11.1 | 161.1 | --- | --- | 1.60 | 0.307 | 125.5 | 107.8 | 4.4 | 0.276 |
| 4- 990 | 4-1690 | 0.312 | 207.1 | -13.2 | -0.45 | 1.315 | 85.4 | 0.708 | 3.350 | 11.1 | 162.9 | --- | --- | 1.69 | 0.298 | 122.8 | 106.8 | 4.5 | 0.264 |
| 4- 990 | 4-1710 | 0.310 | 206.9 | -13.6 | -0.56 | 1.313 | 85.4 | 0.702 | 3.289 | 11.1 | 164.5 | --- | --- | 1.78 | 0.289 | 120.1 | 105.8 | 4.7 | 0.254 |
| 4- 990 | 4-1730 | 0.308 | 206.8 | -14.2 | -0.69 | 1.311 | 85.5 | 0.698 | 3.238 | 11.0 | 166.1 | --- | --- | 1.90 | 0.282 | 117.4 | 104.6 | 4.9 | 0.244 |
| 4- 990 | 4-1750 | 0.306 | 206.9 | -14.9 | -0.83 | 1.310 | 85.5 | 0.694 | 3.196 | 10.9 | 167.7 | --- | --- | 2.03 | 0.275 | 114.7 | 103.4 | 5.1 | 0.236 |
| 4- 990 | 4-1770 | 0.305 | 207.0 | -15.7 | -0.99 | 1.308 | 85.7 | 0.690 | 3.160 | 10.7 | 169.1 | --- | --- | 2.18 | 0.270 | 112.0 | 102.1 | 5.4 | 0.229 |
| 4- 990 | 4-1790 | 0.303 | 207.1 | -16.6 | -1.18 | 1.307 | 85.8 | 0.687 | 3.131 | 10.4 | 170.6 | --- | --- | 2.36 | 0.266 | 109.3 | 100.8 | 5.7 | 0.222 |
| 4- 990 | 4-1810 | 0.302 | 207.4 | -17.8 | -1.41 | 1.306 | 85.9 | 0.684 | 3.106 | 10.0 | 171.9 | --- | --- | 2.57 | 0.262 | 106.6 | 99.5 | 6.0 | 0.217 |
| 4- 990 | 4-1830 | 0.301 | 207.6 | -19.2 | -1.68 | 1.305 | 86.1 | 0.682 | 3.086 | 9.6 | 173.2 | --- | --- | 2.83 | 0.259 | 104.0 | 98.1 | 6.4 | 0.212 |
| 4- 990 | 4-1850 | 0.300 | 207.8 | -20.8 | -2.02 | 1.305 | 86.3 | 0.680 | 3.070 | 9.1 | 174.5 | --- | --- | 3.15 | 0.256 | 101.5 | 96.8 | 6.9 | 0.208 |
| 4- 990 | 4-1870 | 0.300 | 208.0 | -22.9 | -2.44 | 1.304 | 86.5 | 0.679 | 3.057 | 8.6 | 175.7 | --- | --- | 3.57 | 0.255 | 99.0 | 95.4 | 7.4 | 0.205 |
| 4- 990 | 4-1890 | 0.301 | 208.0 | -25.6 | -3.00 | 1.304 | 86.7 | 0.678 | 3.047 | 8.1 | 176.8 | --- | --- | 4.11 | 0.254 | 96.6 | 94.1 | 8.2 | 0.203 |
| 4- 990 | 4-1910 | 0.303 | 207.7 | -28.9 | -3.75 | 1.303 | 87.0 | 0.677 | 3.039 | 7.5 | 178.0 | --- | --- | 4.85 | 0.253 | 94.2 | 92.9 | 9.1 | 0.201 |
| 4- 990 | 4-1930 | 0.308 | 206.9 | -33.5 | -4.84 | 1.303 | 87.3 | 0.676 | 3.033 | 6.8 | 179.0 | --- | --- | 5.92 | 0.253 | 92.0 | 91.7 | 10.5 | 0.201 |
| 4- 990 | 4-1950 | 0.320 | 204.7 | -40.1 | -6.55 | 1.303 | 87.5 | 0.675 | 3.029 | 6.1 | 180.1 | --- | 5.075 | 7.62 | 0.253 | 89.8 | 90.6 | 12.6 | 0.202 |
| 4- 990 | 4-1970 | 0.349 | 198.9 | -50.3 | -9.63 | 1.303 | 87.8 | 0.675 | 3.027 | 5.4 | 181.1 | --- | 5.070 | 10.70 | 0.254 | 87.7 | 89.5 | 16.3 | 0.206 |
| 4- 990 | 4-1990 | 0.444 | 176.2 | -65.9 | -16.81 | 1.303 | 88.1 | 0.675 | 3.027 | 4.7 | 182.1 | --- | 5.069 | 17.86 | 0.254 | 85.7 | 88.6 | 23.5 | 0.223 |
| 4- 990 | 4-2010 | 0.957 | 82.6 | -59.8 | -46.79 | 1.303 | 88.4 | 0.675 | 3.028 | 4.1 | 183.0 | --- | 5.070 | 47.83 | 0.256 | 83.8 | 88.6 | 37.0 | 0.338 |
| 4- 990 | 4-2030 | 0.813 | 267.7 | 67.0 | 38.62 | 1.303 | 89.0 | 0.675 | 3.030 | 2.6 | 183.9 | --- | 5.074 | -37.60 | 0.257 | 82.0 | 88.3 | -28.7 | 0.294 |
| 4- 990 | 4-2050 | 0.445 | 242.0 | 39.2 | 16.93 | 1.303 | 89.3 | 0.675 | 3.033 | 1.9 | 184.8 | --- | 5.080 | -15.91 | 0.258 | 80.3 | 86.9 | -15.5 | 0.220 |
| 4- 990 | 4-2070 | 0.363 | 237.5 | 24.1 | 10.92 | 1.303 | 89.6 | 0.675 | 3.037 | 1.0 | 185.6 | --- | 5.089 | -9.92 | 0.260 | 78.6 | 86.1 | -9.1 | 0.209 |
| 4- 990 | 4-2090 | 0.333 | 236.2 | 15.0 | 8.18 | 1.304 | 90.0 | 0.676 | 3.043 | 0.0 | 186.4 | --- | 5.099 | -7.19 | 0.262 | 77.0 | 85.6 | -5.9 | 0.206 |
| 4- 990 | 4-2110 | 0.319 | 236.2 | 9.0 | 6.61 | 1.304 | 90.4 | 0.676 | 3.048 | 359.1 | 547.2 | 0.986 | 5.111 | -5.64 | 0.264 | 75.5 | 85.3 | -3.9 | 0.206 |
| 4- 990 | 4-2130 | 0.312 | 236.8 | 4.7 | 5.60 | 1.304 | 90.8 | 0.677 | 3.055 | 358.1 | 548.0 | 0.986 | 5.124 | -4.63 | 0.266 | 74.0 | 85.0 | -2.7 | 0.208 |
| 4- 990 | 4-2150 | 0.309 | 237.8 | 1.5 | 4.89 | 1.304 | 91.2 | 0.678 | 3.062 | 357.0 | 548.7 | 0.986 | 5.139 | -3.94 | 0.269 | 72.7 | 84.9 | -1.8 | 0.210 |
| 4- 990 | 4-2170 | 0.307 | 239.0 | -1.1 | 4.36 | 1.305 | 91.6 | 0.679 | 3.070 | 356.0 | 549.4 | 0.985 | 5.155 | -3.42 | 0.271 | 71.3 | 84.8 | -1.1 | 0.212 |
| 4- 990 | 4-2190 | 0.306 | 240.4 | -3.2 | 3.96 | 1.305 | 92.1 | 0.680 | 3.079 | 354.9 | 550.1 | 0.985 | 5.173 | -3.03 | 0.273 | 70.1 | 84.9 | -0.6 | 0.214 |
| 4- 990 | 4-2210 | 0.307 | 242.0 | -5.0 | 3.63 | 1.305 | 92.5 | 0.681 | 3.088 | 353.7 | 550.8 | 0.984 | 5.192 | -2.72 | 0.276 | 68.9 | 85.0 | -0.2 | 0.217 |
| 4- 990 | 4-2230 | 0.308 | 243.7 | -6.6 | 3.37 | 1.306 | 93.0 | 0.683 | 3.097 | 352.6 | 551.5 | 0.983 | 5.212 | -2.47 | 0.278 | 67.7 | 85.2 | 0.2 | 0.220 |
| 4- 990 | 4-2250 | 0.310 | 245.4 | -8.0 | 3.15 | 1.306 | 93.5 | 0.684 | 3.107 | 351.4 | 552.1 | 0.982 | 5.233 | -2.26 | 0.281 | 66.6 | 85.5 | 0.4 | 0.223 |
| 4- 990 | 4-2270 | 0.312 | 247.2 | -9.2 | 2.96 | 1.307 | 94.0 | 0.685 | 3.118 | 350.2 | 552.7 | 0.981 | 5.255 | -2.09 | 0.283 | 65.5 | 85.9 | 0.7 | 0.226 |
| 4- 990 | 4-2290 | 0.315 | 249.1 | -10.3 | 2.80 | 1.307 | 94.5 | 0.687 | 3.128 | 349.0 | 553.3 | 0.979 | 5.278 | -1.94 | 0.286 | 64.5 | 86.4 | 0.9 | 0.229 |
| 4- 990 | 4-2310 | 0.318 | 251.0 | -11.2 | 2.66 | 1.307 | 95.0 | 0.689 | 3.139 | 347.8 | 553.8 | 0.977 | 5.302 | -1.82 | 0.288 | 63.5 | 86.9 | 1.0 | 0.232 |
| 4- 990 | 4-2330 | 0.322 | 252.9 | -12.1 | 2.54 | 1.308 | 95.5 | 0.690 | 3.151 | 346.5 | 554.4 | 0.975 | 5.326 | -1.71 | 0.291 | 62.6 | 87.5 | 1.2 | 0.235 |
| 4- 990 | 4-2350 | 0.327 | 254.8 | -12.9 | 2.43 | 1.308 | 96.0 | 0.692 | 3.162 | 345.2 | 554.9 | 0.973 | 5.352 | -1.61 | 0.293 | 61.7 | 88.1 | 1.3 | 0.238 |
| 4- 990 | 4-2370 | 0.331 | 256.8 | -13.7 | 2.33 | 1.309 | 96.6 | 0.694 | 3.174 | 343.9 | 555.4 | 0.970 | 5.378 | -1.53 | 0.295 | 60.8 | 88.9 | 1.4 | 0.242 |
| 4- 990 | 4-2390 | 0.336 | 258.8 | -14.3 | 2.25 | 1.309 | 97.1 | 0.696 | 3.186 | 342.6 | 555.9 | 0.968 | 5.405 | -1.45 | 0.298 | 60.0 | 89.6 | 1.5 | 0.245 |
| 4- 990 | 4-2410 | 0.342 | 260.7 | -14.9 | 2.17 | 1.310 | 97.7 | 0.698 | 3.199 | 341.2 | 556.4 | 0.965 | 5.433 | -1.39 | 0.300 | 59.2 | 90.5 | 1.6 | 0.249 |
| 4- 990 | 4-2430 | 0.348 | 262.7 | -15.4 | 2.09 | 1.310 | 98.3 | 0.701 | 3.211 | 339.9 | 556.8 | 0.961 | 5.461 | -1.33 | 0.303 | 58.4 | 91.3 | 1.7 | 0.252 |
| 4- 990 | 4-2450 | 0.354 | 264.7 | -15.9 | 2.03 | 1.311 | 98.9 | 0.703 | 3.224 | 338.5 | 557.3 | 0.958 | 5.490 | -1.27 | 0.305 | 57.6 | 92.2 | 1.8 | 0.256 |
| 4- 990 | 4-2470 | 0.361 | 266.6 | -16.4 | 1.96 | 1.311 | 99.5 | 0.705 | 3.237 | 337.1 | 557.7 | 0.954 | 5.520 | -1.23 | 0.307 | 56.8 | 93.2 | 1.8 | 0.259 |
| 4- 990 | 4-2490 | 0.368 | 268.5 | -16.7 | 1.91 | 1.312 | 100.1 | 0.708 | 3.250 | 335.6 | 558.1 | 0.950 | 5.551 | -1.18 | 0.310 | 56.1 | 94.2 | 1.9 | 0.263 |
| 4- 990 | 4-2510 | 0.376 | 270.4 | -17.1 | 1.85 | 1.312 | 100.7 | 0.710 | 3.264 | 334.2 | 558.5 | 0.945 | 5.582 | -1.14 | 0.312 | 55.4 | 95.3 | 2.0 | 0.267 |
| 4- 990 | 4-2530 | 0.384 | 272.3 | -17.4 | 1.80 | 1.313 | 101.3 | 0.713 | 3.277 | 332.7 | 558.8 | 0.941 | 5.613 | -1.11 | 0.314 | 54.7 | 96.4 | 2.0 | 0.270 |
| 4- 990 | 4-2550 | 0.392 | 274.1 | -17.6 | 1.75 | 1.313 | 101.9 | 0.716 | 3.291 | 331.2 | 559.2 | 0.936 | 5.646 | -1.07 | 0.316 | 54.0 | 97.5 | 2.0 | 0.274 |
| 4- 990 | 4-2570 | 0.401 | 275.9 | -17.9 | 1.71 | 1.313 | 102.6 | 0.719 | 3.304 | 329.7 | 559.5 | 0.930 | 5.678 | -1.05 | 0.318 | 53.4 | 98.6 | 2.1 | 0.278 |
| 4- 990 | 4-2590 | 0.410 | 277.7 | -18.0 | 1.67 | 1.314 | 103.3 | 0.721 | 3.318 | 328.2 | 559.8 | 0.924 | 5.712 | -1.02 | 0.320 | 52.7 | 99.8 | 2.1 | 0.281 |
| 4-1000 | 4-1280 | 0.611 | 235.9 | -18.2 | 0.56 | 1.622 | 89.5 | 1.601 | -1.644 | 0.7 | 108.8 | --- | --- | 1.02 | 0.992 | 162.3 | 112.0 | 3.2 | 0.973 |
| 4-1000 | 4-1300 | 0.562 | 233.0 | -17.6 | 0.53 | 1.573 | 88.5 | 1.446 | -2.217 | 2.5 | 112.1 | --- | --- | 1.03 | 0.910 | 161.2 | 112.3 | 3.2 | 0.891 |
| 4-1000 | 4-1320 | 0.522 | 230.1 | -16.9 | 0.50 | 1.532 | 87.6 | 1.320 | -3.083 | 4.2 | 115.5 | --- | --- | 1.04 | 0.838 | 160.1 | 112.6 | 3.2 | 0.820 |
| 4-1000 | 4-1340 | 0.490 | 227.2 | -16.2 | 0.47 | 1.498 | 86.7 | 1.218 | -4.522 | 6.0 | 118.8 | --- | --- | 1.05 | 0.774 | 158.8 | 112.8 | 3.2 | 0.757 |
| 4-1000 | 4-1360 | 0.464 | 224.3 | -15.4 | 0.44 | 1.470 | 85.9 | 1.134 | -7.345 | 7.7 | 122.1 | --- | --- | 1.06 | 0.717 | 157.5 | 113.0 | 3.2 | 0.701 |
| 4-1000 | 4-1380 | 0.442 | 221.6 | -14.7 | 0.40 | 1.446 | 85.2 | 1.064 | 15.250 | 9.3 | 125.4 | --- | --- | 1.08 | 0.667 | 156.1 | 113.1 | 3.3 | 0.650 |
| 4-1000 | 4-1400 | 0.425 | 219.0 | -14.0 | 0.37 | 1.425 | 84.6 | 1.007 | 49.616 | 10.9 | 128.5 | --- | --- | 1.09 | 0.621 | 154.7 | 113.2 | 3.3 | 0.605 |
| 4-1000 | 4-1420 | 0.411 | 216.6 | -13.3 | 0.33 | 1.408 | 84.0 | 0.958 | 23.342 | 12.3 | 131.6 | --- | --- | 1.11 | 0.581 | 153.1 | 113.3 | 3.3 | 0.564 |
| 4-1000 | 4-1440 | 0.400 | 214.3 | -12.7 | 0.30 | 1.393 | 83.4 | 0.917 | 11.797 | 13.7 | 134.6 | --- | --- | 1.13 | 0.544 | 151.4 | 113.2 | 3.4 | 0.527 |
| 4-1000 | 4-1460 | 0.390 | 212.3 | -12.1 | 0.26 | 1.380 | 83.0 | 0.883 | 8.307 | 15.0 | 137.5 | --- | --- | 1.15 | 0.511 | 149.7 | 113.2 | 3.4 | 0.494 |
| 4-1000 | 4-1480 | 0.383 | 210.5 | -11.6 | 0.22 | 1.369 | 82.6 | 0.854 | 6.633 | 16.1 | 140.3 | --- | --- | 1.17 | 0.480 | 147.8 | 113.0 | 3.5 | 0.463 |
| 4-1000 | 4-1500 | 0.376 | 208.8 | -11.1 | 0.18 | 1.359 | 82.2 | 0.829 | 5.657 | 17.1 | 143.0 | --- | --- | 1.19 | 0.453 | 145.9 | 112.8 | 3.5 | 0.435 |
| 4-1000 | 4-1520 | 0.371 | 207.4 | -10.8 | 0.14 | 1.351 | 81.9 | 0.808 | 5.023 | 18.1 | 145.5 | --- | --- | 1.22 | 0.428 | 143.8 | 112.5 | 3.6 | 0.410 |
| 4-1000 | 4-1540 | 0.368 | 206.1 | -10.5 | 0.09 | 1.344 | 81.7 | 0.789 | 4.580 | 18.9 | 148.0 | --- | --- | 1.25 | 0.406 | 141.7 | 112.1 | 3.7 | 0.387 |
| 4-1000 | 4-1560 | 0.362 | 205.1 | -10.2 | 0.04 | 1.338 | 81.5 | 0.774 | 4.257 | 19.6 | 150.3 | --- | --- | 1.28 | 0.386 | 139.5 | 111.6 | 3.7 | 0.365 |
| 4-1000 | 4-1580 | 0.359 | 204.2 | -10.1 | -0.01 | 1.332 | 81.3 | 0.760 | 4.013 | 20.1 | 152.6 | --- | --- | 1.31 | 0.367 | 137.1 | 111.1 | 3.8 | 0.346 |
| 4-1000 | 4-1600 | 0.356 | 203.4 | -10.0 | -0.06 | 1.328 | 81.2 | 0.749 | 3.823 | 20.6 | 154.7 | --- | --- | 1.35 | 0.351 | 134.7 | 110.4 | 3.9 | 0.328 |

BEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1000 | 4-1620 | 0.353 | 202.8 | -10.0 | -0.12 | 1.324 | 81.1 | 0.738 | 3.672 | 21.0 | 156.7 | --- | --- | 1.39 | 0.336 | 132.2 | 109.7 | 4.0 | 0.312 |
| 4-1000 | 4-1640 | 0.350 | 202.3 | -10.1 | -0.18 | 1.320 | 81.1 | 0.730 | 3.551 | 21.2 | 158.7 | --- | --- | 1.43 | 0.323 | 129.7 | 108.9 | 4.1 | 0.297 |
| 4-1000 | 4-1660 | 0.348 | 202.0 | -10.2 | -0.24 | 1.317 | 81.0 | 0.722 | 3.453 | 21.4 | 160.5 | --- | --- | 1.48 | 0.311 | 127.0 | 108.0 | 4.2 | 0.283 |
| 4-1000 | 4-1680 | 0.345 | 201.7 | -10.4 | -0.31 | 1.314 | 81.0 | 0.715 | 3.372 | 21.5 | 162.3 | --- | --- | 1.53 | 0.301 | 124.4 | 107.0 | 4.3 | 0.271 |
| 4-1000 | 4-1700 | 0.343 | 201.6 | -10.6 | -0.38 | 1.312 | 81.1 | 0.710 | 3.306 | 21.5 | 164.0 | --- | --- | 1.59 | 0.291 | 121.6 | 106.0 | 4.5 | 0.260 |
| 4-1000 | 4-1720 | 0.340 | 201.6 | -11.0 | -0.46 | 1.310 | 81.2 | 0.705 | 3.250 | 21.5 | 165.6 | --- | --- | 1.65 | 0.283 | 118.9 | 104.8 | 4.6 | 0.250 |
| 4-1000 | 4-1740 | 0.338 | 201.6 | -11.3 | -0.55 | 1.308 | 81.2 | 0.700 | 3.205 | 21.3 | 167.1 | --- | --- | 1.72 | 0.277 | 116.2 | 103.7 | 4.8 | 0.241 |
| 4-1000 | 4-1760 | 0.336 | 201.8 | -11.8 | -0.64 | 1.307 | 81.4 | 0.696 | 3.166 | 21.1 | 168.6 | --- | --- | 1.80 | 0.271 | 113.4 | 102.4 | 4.9 | 0.234 |
| 4-1000 | 4-1780 | 0.333 | 202.0 | -12.3 | -0.75 | 1.306 | 81.5 | 0.693 | 3.135 | 20.8 | 170.0 | --- | --- | 1.89 | 0.266 | 110.7 | 101.1 | 5.1 | 0.227 |
| 4-1000 | 4-1800 | 0.331 | 202.3 | -13.0 | -0.86 | 1.305 | 81.7 | 0.690 | 3.108 | 20.5 | 171.4 | --- | --- | 1.99 | 0.262 | 108.0 | 99.8 | 5.3 | 0.221 |
| 4-1000 | 4-1820 | 0.329 | 202.7 | -13.7 | -0.99 | 1.304 | 81.8 | 0.688 | 3.087 | 20.1 | 172.7 | --- | --- | 2.11 | 0.258 | 105.3 | 98.5 | 5.5 | 0.215 |
| 4-1000 | 4-1840 | 0.327 | 203.1 | -14.5 | -1.14 | 1.303 | 82.0 | 0.686 | 3.069 | 19.6 | 174.0 | --- | --- | 2.24 | 0.256 | 102.7 | 97.2 | 5.7 | 0.211 |
| 4-1000 | 4-1860 | 0.324 | 203.6 | -15.4 | -1.31 | 1.303 | 82.3 | 0.684 | 3.055 | 19.1 | 175.2 | --- | --- | 2.39 | 0.254 | 100.2 | 95.9 | 5.9 | 0.207 |
| 4-1000 | 4-1880 | 0.322 | 204.1 | -16.5 | -1.50 | 1.302 | 82.5 | 0.682 | 3.044 | 18.5 | 176.4 | --- | --- | 2.56 | 0.253 | 97.7 | 94.6 | 6.2 | 0.204 |
| 4-1000 | 4-1900 | 0.320 | 204.6 | -17.7 | -1.72 | 1.302 | 82.8 | 0.681 | 3.035 | 17.9 | 177.5 | --- | --- | 2.77 | 0.252 | 95.4 | 93.3 | 6.5 | 0.202 |
| 4-1000 | 4-1920 | 0.318 | 205.2 | -19.1 | -1.98 | 1.302 | 83.0 | 0.680 | 3.029 | 17.3 | 178.6 | --- | --- | 3.01 | 0.251 | 93.1 | 92.2 | 6.8 | 0.200 |
| 4-1000 | 4-1940 | 0.317 | 205.7 | -20.7 | -2.29 | 1.301 | 83.3 | 0.679 | 3.025 | 16.6 | 179.6 | --- | --- | 3.31 | 0.252 | 90.9 | 91.1 | 7.2 | 0.199 |
| 4-1000 | 4-1960 | 0.316 | 206.2 | -22.6 | -2.67 | 1.301 | 83.6 | 0.678 | 3.023 | 15.8 | 180.6 | --- | 5.072 | 3.68 | 0.252 | 88.7 | 90.0 | 7.7 | 0.199 |
| 4-1000 | 4-1980 | 0.315 | 206.6 | -25.0 | -3.16 | 1.301 | 83.9 | 0.678 | 3.022 | 15.1 | 181.6 | --- | 5.069 | 4.15 | 0.253 | 86.7 | 89.1 | 8.3 | 0.199 |
| 4-1000 | 4-2000 | 0.316 | 206.8 | -27.8 | -3.78 | 1.301 | 84.2 | 0.677 | 3.023 | 14.3 | 182.5 | --- | 5.069 | 4.75 | 0.254 | 84.8 | 88.2 | 9.1 | 0.199 |
| 4-1000 | 4-2020 | 0.318 | 206.6 | -31.5 | -4.62 | 1.301 | 84.6 | 0.677 | 3.025 | 13.4 | 183.4 | --- | 5.072 | 5.58 | 0.255 | 82.9 | 87.5 | 10.1 | 0.201 |
| 4-1000 | 4-2040 | 0.324 | 205.8 | -36.4 | -5.81 | 1.301 | 84.9 | 0.677 | 3.028 | 12.6 | 184.3 | --- | 5.077 | 6.76 | 0.257 | 81.1 | 86.8 | 11.5 | 0.203 |
| 4-1000 | 4-2060 | 0.337 | 203.4 | -43.1 | -7.64 | 1.302 | 85.3 | 0.677 | 3.032 | 11.7 | 185.2 | --- | 5.084 | 8.58 | 0.259 | 79.4 | 86.3 | 13.6 | 0.206 |
| 4-1000 | 4-2080 | 0.369 | 197.0 | -52.8 | -10.83 | 1.302 | 85.7 | 0.677 | 3.037 | 10.7 | 186.0 | --- | 5.093 | 11.74 | 0.261 | 77.8 | 86.0 | 17.1 | 0.213 |
| 4-1000 | 4-2100 | 0.461 | 174.1 | -66.0 | -17.65 | 1.302 | 86.0 | 0.677 | 3.043 | 9.8 | 186.8 | --- | 5.103 | 18.55 | 0.263 | 76.3 | 86.1 | 23.7 | 0.231 |
| 4-1000 | 4-2120 | 0.844 | 97.3 | -62.6 | -40.29 | 1.302 | 86.4 | 0.678 | 3.050 | 9.0 | 187.6 | --- | 5.116 | 41.18 | 0.265 | 74.8 | 88.7 | 35.3 | 0.315 |
| 4-1000 | 4-2140 | 1.116 | 300.0 | 79.1 | 55.93 | 1.303 | 87.1 | 0.678 | 3.057 | 7.1 | 188.3 | --- | 5.129 | -55.06 | 0.267 | 73.5 | 90.9 | -30.8 | 0.377 |
| 4-1000 | 4-2160 | 0.532 | 246.3 | 48.5 | 22.32 | 1.303 | 87.4 | 0.678 | 3.065 | 6.4 | 189.0 | --- | 5.144 | -21.46 | 0.269 | 72.2 | 86.5 | -19.5 | 0.245 |
| 4-1000 | 4-2180 | 0.401 | 241.1 | 30.8 | 13.67 | 1.303 | 87.8 | 0.679 | 3.074 | 5.4 | 189.7 | --- | 5.161 | -12.83 | 0.272 | 70.9 | 85.6 | -11.6 | 0.225 |
| 4-1000 | 4-2200 | 0.354 | 239.7 | 19.9 | 9.94 | 1.304 | 88.3 | 0.680 | 3.083 | 4.3 | 190.4 | --- | 5.179 | -9.11 | 0.274 | 69.7 | 85.5 | -7.6 | 0.221 |
| 4-1000 | 4-2220 | 0.332 | 239.7 | 12.7 | 7.87 | 1.304 | 88.7 | 0.681 | 3.093 | 3.2 | 191.1 | --- | 5.198 | -7.06 | 0.277 | 68.5 | 85.5 | -5.2 | 0.221 |
| 4-1000 | 4-2240 | 0.321 | 240.5 | 7.6 | 6.55 | 1.305 | 89.2 | 0.682 | 3.103 | 2.0 | 191.7 | --- | 5.217 | -5.76 | 0.279 | 67.4 | 85.7 | -3.6 | 0.222 |
| 4-1000 | 4-2260 | 0.314 | 241.6 | 3.7 | 5.65 | 1.305 | 89.7 | 0.683 | 3.113 | 0.8 | 192.3 | --- | 5.238 | -4.87 | 0.282 | 66.4 | 86.0 | -2.5 | 0.224 |
| 4-1000 | 4-2280 | 0.310 | 243.1 | 0.6 | 4.98 | 1.305 | 90.1 | 0.684 | 3.124 | 359.6 | 552.9 | 0.988 | 5.260 | -4.21 | 0.284 | 65.4 | 86.4 | -1.7 | 0.227 |
| 4-1000 | 4-2300 | 0.308 | 244.7 | -1.9 | 4.47 | 1.306 | 90.6 | 0.685 | 3.135 | 358.4 | 553.5 | 0.988 | 5.282 | -3.72 | 0.287 | 64.4 | 86.9 | -1.1 | 0.229 |
| 4-1000 | 4-2320 | 0.308 | 246.5 | -3.9 | 4.06 | 1.306 | 91.2 | 0.686 | 3.147 | 357.2 | 554.1 | 0.988 | 5.306 | -3.33 | 0.290 | 63.5 | 87.4 | -0.7 | 0.232 |
| 4-1000 | 4-2340 | 0.308 | 248.4 | -5.7 | 3.74 | 1.307 | 91.7 | 0.687 | 3.159 | 355.9 | 554.6 | 0.987 | 5.330 | -3.02 | 0.292 | 62.6 | 88.1 | -0.3 | 0.235 |
| 4-1000 | 4-2360 | 0.309 | 250.4 | -7.3 | 3.46 | 1.307 | 92.2 | 0.689 | 3.171 | 354.6 | 555.1 | 0.986 | 5.355 | -2.76 | 0.295 | 61.8 | 88.7 | 0.1 | 0.238 |
| 4-1000 | 4-2380 | 0.310 | 252.4 | -8.6 | 3.23 | 1.308 | 92.7 | 0.690 | 3.183 | 353.3 | 555.6 | 0.985 | 5.381 | -2.55 | 0.297 | 60.9 | 89.5 | 0.3 | 0.241 |
| 4-1000 | 4-2400 | 0.313 | 254.5 | -9.8 | 3.03 | 1.308 | 93.3 | 0.692 | 3.196 | 352.0 | 556.1 | 0.984 | 5.407 | -2.36 | 0.300 | 60.2 | 90.2 | 0.6 | 0.244 |
| 4-1000 | 4-2420 | 0.315 | 256.7 | -10.9 | 2.86 | 1.309 | 93.8 | 0.694 | 3.208 | 350.6 | 556.6 | 0.983 | 5.434 | -2.21 | 0.302 | 59.4 | 91.1 | 0.7 | 0.248 |
| 4-1000 | 4-2440 | 0.319 | 258.9 | -11.8 | 2.71 | 1.309 | 94.4 | 0.695 | 3.221 | 349.3 | 557.1 | 0.981 | 5.462 | -2.07 | 0.304 | 58.7 | 92.0 | 0.9 | 0.251 |
| 4-1000 | 4-2460 | 0.323 | 261.1 | -12.7 | 2.58 | 1.310 | 95.0 | 0.697 | 3.234 | 347.9 | 557.5 | 0.979 | 5.490 | -1.96 | 0.307 | 57.9 | 92.9 | 1.1 | 0.254 |
| 4-1000 | 4-2480 | 0.327 | 263.3 | -13.4 | 2.46 | 1.310 | 95.5 | 0.699 | 3.248 | 346.5 | 557.9 | 0.977 | 5.519 | -1.85 | 0.309 | 57.2 | 93.9 | 1.2 | 0.257 |
| 4-1000 | 4-2500 | 0.332 | 265.5 | -14.1 | 2.35 | 1.310 | 96.1 | 0.701 | 3.261 | 345.1 | 558.4 | 0.974 | 5.548 | -1.76 | 0.311 | 56.6 | 94.9 | 1.3 | 0.261 |
| 4-1000 | 4-2520 | 0.337 | 267.7 | -14.7 | 2.25 | 1.311 | 96.7 | 0.703 | 3.275 | 343.7 | 558.8 | 0.972 | 5.578 | -1.68 | 0.314 | 55.9 | 95.9 | 1.4 | 0.264 |
| 4-1000 | 4-2540 | 0.343 | 269.8 | -15.2 | 2.16 | 1.311 | 97.4 | 0.705 | 3.289 | 342.2 | 559.1 | 0.969 | 5.609 | -1.61 | 0.316 | 55.3 | 97.0 | 1.5 | 0.267 |
| 4-1000 | 4-2560 | 0.349 | 272.0 | -15.7 | 2.08 | 1.312 | 98.0 | 0.708 | 3.303 | 340.7 | 559.5 | 0.965 | 5.640 | -1.54 | 0.318 | 54.6 | 98.1 | 1.6 | 0.271 |
| 4-1000 | 4-2580 | 0.356 | 274.1 | -16.1 | 2.01 | 1.312 | 98.6 | 0.710 | 3.317 | 339.2 | 559.8 | 0.962 | 5.672 | -1.49 | 0.320 | 54.0 | 99.3 | 1.6 | 0.274 |
| 4-1000 | 4-2600 | 0.363 | 276.2 | -16.4 | 1.94 | 1.313 | 99.2 | 0.712 | 3.331 | 337.7 | 560.2 | 0.958 | 5.704 | -1.43 | 0.322 | 53.4 | 100.5 | 1.7 | 0.278 |
| 4-1010 | 4-1290 | 0.610 | 228.8 | -16.7 | 0.52 | 1.604 | 83.1 | 1.541 | -1.808 | 11.4 | 110.2 | --- | --- | 1.12 | 0.964 | 162.1 | 112.3 | 3.2 | 0.946 |
| 4-1010 | 4-1310 | 0.568 | 225.7 | -15.8 | 0.49 | 1.557 | 82.3 | 1.394 | -2.473 | 13.3 | 113.7 | --- | --- | 1.12 | 0.884 | 161.0 | 112.5 | 3.2 | 0.867 |
| 4-1010 | 4-1330 | 0.535 | 222.6 | -15.0 | 0.46 | 1.518 | 81.5 | 1.276 | -3.517 | 15.2 | 117.2 | --- | --- | 1.13 | 0.814 | 159.8 | 112.7 | 3.2 | 0.797 |
| 4-1010 | 4-1350 | 0.509 | 219.7 | -14.2 | 0.43 | 1.485 | 80.8 | 1.180 | -5.358 | 17.0 | 120.6 | --- | --- | 1.14 | 0.752 | 158.6 | 112.9 | 3.3 | 0.736 |
| 4-1010 | 4-1370 | 0.488 | 217.0 | -13.4 | 0.39 | 1.458 | 80.1 | 1.102 | -9.421 | 18.8 | 124.0 | --- | --- | 1.15 | 0.696 | 157.2 | 113.0 | 3.3 | 0.682 |
| 4-1010 | 4-1390 | 0.471 | 214.4 | -12.6 | 0.36 | 1.435 | 79.5 | 1.038 | 25.399 | 20.5 | 127.4 | --- | --- | 1.15 | 0.647 | 155.8 | 113.1 | 3.3 | 0.633 |
| 4-1010 | 4-1410 | 0.458 | 212.0 | -11.9 | 0.33 | 1.415 | 79.0 | 0.984 | 61.125 | 22.2 | 130.6 | --- | --- | 1.17 | 0.603 | 154.3 | 113.1 | 3.3 | 0.589 |
| 4-1010 | 4-1430 | 0.448 | 209.9 | -11.3 | 0.29 | 1.399 | 78.5 | 0.940 | 15.808 | 23.7 | 133.7 | --- | --- | 1.18 | 0.563 | 152.7 | 113.0 | 3.4 | 0.550 |
| 4-1010 | 4-1450 | 0.439 | 208.0 | -10.7 | 0.25 | 1.384 | 78.1 | 0.903 | 9.719 | 25.1 | 136.7 | --- | --- | 1.19 | 0.527 | 151.0 | 112.9 | 3.4 | 0.514 |
| 4-1010 | 4-1470 | 0.432 | 206.3 | -10.2 | 0.22 | 1.372 | 77.8 | 0.871 | 7.324 | 26.3 | 139.6 | --- | --- | 1.20 | 0.495 | 149.2 | 112.8 | 3.5 | 0.481 |
| 4-1010 | 4-1490 | 0.426 | 204.8 | -9.7 | 0.18 | 1.362 | 77.5 | 0.845 | 6.052 | 27.4 | 142.4 | --- | --- | 1.22 | 0.465 | 147.3 | 112.5 | 3.5 | 0.452 |
| 4-1010 | 4-1510 | 0.421 | 203.5 | -9.3 | 0.14 | 1.353 | 77.2 | 0.822 | 5.270 | 28.4 | 145.0 | --- | --- | 1.24 | 0.439 | 145.3 | 112.2 | 3.6 | 0.425 |
| 4-1010 | 4-1530 | 0.417 | 202.4 | -9.0 | 0.10 | 1.345 | 77.0 | 0.803 | 4.744 | 29.3 | 147.5 | --- | --- | 1.25 | 0.415 | 143.2 | 111.8 | 3.6 | 0.400 |
| 4-1010 | 4-1550 | 0.414 | 201.4 | -8.8 | 0.06 | 1.338 | 76.8 | 0.787 | 4.369 | 30.1 | 149.9 | --- | --- | 1.27 | 0.393 | 141.0 | 111.3 | 3.7 | 0.378 |
| 4-1010 | 4-1570 | 0.410 | 200.6 | -8.6 | 0.02 | 1.332 | 76.7 | 0.773 | 4.091 | 30.7 | 152.2 | --- | --- | 1.30 | 0.373 | 138.7 | 110.8 | 3.8 | 0.357 |
| 4-1010 | 4-1590 | 0.407 | 200.0 | -8.5 | -0.03 | 1.327 | 76.6 | 0.761 | 3.878 | 31.2 | 154.4 | --- | --- | 1.32 | 0.356 | 136.3 | 110.2 | 3.8 | 0.338 |
| 4-1010 | 4-1610 | 0.404 | 199.5 | -8.5 | -0.08 | 1.323 | 76.5 | 0.750 | 3.711 | 31.6 | 156.4 | --- | --- | 1.35 | 0.340 | 133.8 | 109.4 | 3.9 | 0.321 |
| 4-1010 | 4-1630 | 0.401 | 199.1 | -8.5 | -0.12 | 1.319 | 76.5 | 0.741 | 3.579 | 31.9 | 158.4 | --- | --- | 1.38 | 0.326 | 131.3 | 108.6 | 4.0 | 0.306 |
| 4-1010 | 4-1650 | 0.399 | 198.8 | -8.5 | -0.18 | 1.316 | 76.5 | 0.733 | 3.471 | 32.1 | 160.3 | --- | --- | 1.41 | 0.313 | 128.6 | 107.7 | 4.1 | 0.292 |
| 4-1010 | 4-1670 | 0.396 | 198.6 | -8.7 | -0.23 | 1.313 | 76.5 | 0.726 | 3.384 | 32.2 | 162.0 | --- | --- | 1.44 | 0.302 | 125.9 | 106.8 | 4.2 | 0.279 |
| 4-1010 | 4-1690 | 0.393 | 198.5 | -8.8 | -0.29 | 1.311 | 76.6 | 0.720 | 3.312 | 32.2 | 163.7 | --- | --- | 1.48 | 0.292 | 123.2 | 105.7 | 4.3 | 0.267 |
| 4-1010 | 4-1710 | 0.390 | 198.5 | -9.0 | -0.35 | 1.308 | 76.7 | 0.715 | 3.253 | 32.1 | 165.3 | --- | --- | 1.52 | 0.283 | 120.4 | 104.6 | 4.4 | 0.257 |
| 4-1010 | 4-1730 | 0.387 | 198.5 | -9.3 | -0.41 | 1.307 | 76.8 | 0.710 | 3.204 | 32.0 | 166.9 | --- | --- | 1.56 | 0.276 | 117.6 | 103.5 | 4.5 | 0.248 |
| 4-1010 | 4-1750 | 0.384 | 198.7 | -9.6 | -0.48 | 1.305 | 76.9 | 0.706 | 3.163 | 31.8 | 168.4 | --- | --- | 1.61 | 0.270 | 114.8 | 102.2 | 4.6 | 0.239 |
| 4-1010 | 4-1770 | 0.381 | 198.9 | -10.0 | -0.55 | 1.304 | 77.1 | 0.703 | 3.130 | 31.5 | 169.8 | --- | --- | 1.66 | 0.264 | 112.0 | 101.0 | 4.8 | 0.232 |
| 4-1010 | 4-1790 | 0.378 | 199.2 | -10.4 | -0.62 | 1.303 | 77.3 | 0.700 | 3.102 | 31.1 | 171.1 | --- | --- | 1.72 | 0.260 | 109.2 | 99.7 | 4.9 | 0.226 |
| 4-1010 | 4-1810 | 0.375 | 199.5 | -10.8 | -0.71 | 1.302 | 77.5 | 0.697 | 3.079 | 30.7 | 172.4 | --- | --- | 1.79 | 0.256 | 106.5 | 98.4 | 5.0 | 0.220 |
| 4-1010 | 4-1830 | 0.372 | 199.9 | -11.3 | -0.80 | 1.301 | 77.7 | 0.694 | 3.061 | 30.2 | 173.7 | --- | --- | 1.86 | 0.253 | 103.9 | 97.1 | 5.2 | 0.215 |
| 4-1010 | 4-1850 | 0.369 | 200.4 | -11.9 | -0.89 | 1.300 | 77.9 | 0.692 | 3.046 | 29.7 | 174.9 | --- | --- | 1.94 | 0.251 | 101.3 | 95.8 | 5.3 | 0.211 |
| 4-1010 | 4-1870 | 0.365 | 200.9 | -12.5 | -1.00 | 1.300 | 78.1 | 0.690 | 3.034 | 29.2 | 176.0 | --- | --- | 2.02 | 0.250 | 98.7 | 94.6 | 5.5 | 0.208 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1010 | 4-1890 | 0.362 | 201.4 | -13.2 | -1.12 | 1.300 | 78.4 | 0.689 | 3.025 | 28.5 | 177.1 | --- | --- | 2.12 | 0.249 | 96.3 | 93.3 | 5.6 | 0.205 |
| 4-1010 | 4-1910 | 0.359 | 202.0 | -14.0 | -1.25 | 1.299 | 78.7 | 0.687 | 3.019 | 27.9 | 178.2 | --- | --- | 2.23 | 0.249 | 93.9 | 92.2 | 5.8 | 0.203 |
| 4-1010 | 4-1930 | 0.355 | 202.7 | -14.9 | -1.39 | 1.299 | 79.0 | 0.686 | 3.014 | 27.2 | 179.2 | --- | --- | 2.36 | 0.249 | 91.6 | 91.1 | 6.0 | 0.202 |
| 4-1010 | 4-1950 | 0.352 | 203.4 | -15.8 | -1.56 | 1.299 | 79.3 | 0.685 | 3.012 | 26.4 | 180.2 | --- | 5.075 | 2.51 | 0.249 | 89.5 | 90.1 | 6.2 | 0.201 |
| 4-1010 | 4-1970 | 0.349 | 204.1 | -16.9 | -1.74 | 1.299 | 79.6 | 0.684 | 3.011 | 25.6 | 181.2 | --- | 5.071 | 2.67 | 0.250 | 87.4 | 89.1 | 6.4 | 0.201 |
| 4-1010 | 4-1990 | 0.346 | 204.8 | -18.1 | -1.95 | 1.299 | 80.0 | 0.683 | 3.012 | 24.8 | 182.1 | --- | 5.070 | 2.87 | 0.251 | 85.4 | 88.3 | 6.6 | 0.201 |
| 4-1010 | 4-2010 | 0.343 | 205.6 | -19.4 | -2.20 | 1.299 | 80.3 | 0.683 | 3.014 | 24.0 | 183.0 | --- | 5.071 | 3.10 | 0.252 | 83.5 | 87.5 | 6.9 | 0.201 |
| 4-1010 | 4-2030 | 0.340 | 206.3 | -21.0 | -2.49 | 1.299 | 80.7 | 0.682 | 3.017 | 23.1 | 183.9 | --- | 5.075 | 3.37 | 0.254 | 81.7 | 86.9 | 7.3 | 0.202 |
| 4-1010 | 4-2050 | 0.337 | 207.0 | -22.7 | -2.83 | 1.299 | 81.0 | 0.682 | 3.021 | 22.2 | 184.8 | --- | 5.081 | 3.70 | 0.256 | 80.0 | 86.3 | 7.7 | 0.203 |
| 4-1010 | 4-2070 | 0.336 | 207.7 | -24.8 | -3.26 | 1.300 | 81.4 | 0.682 | 3.026 | 21.2 | 185.6 | --- | 5.089 | 4.10 | 0.258 | 78.3 | 85.8 | 8.1 | 0.204 |
| 4-1010 | 4-2090 | 0.334 | 208.2 | -27.3 | -3.78 | 1.300 | 81.8 | 0.682 | 3.032 | 20.3 | 186.4 | --- | 5.099 | 4.61 | 0.260 | 76.8 | 85.5 | 8.7 | 0.206 |
| 4-1010 | 4-2110 | 0.335 | 208.5 | -30.3 | -4.46 | 1.300 | 82.2 | 0.682 | 3.039 | 19.3 | 187.1 | --- | 5.111 | 5.27 | 0.262 | 75.3 | 85.2 | 9.5 | 0.208 |
| 4-1010 | 4-2130 | 0.337 | 208.4 | -34.2 | -5.37 | 1.300 | 82.6 | 0.682 | 3.047 | 18.2 | 187.9 | --- | 5.124 | 6.17 | 0.265 | 73.9 | 85.1 | 10.5 | 0.211 |
| 4-1010 | 4-2150 | 0.343 | 207.5 | -39.2 | -6.66 | 1.301 | 83.0 | 0.682 | 3.055 | 17.2 | 188.6 | --- | 5.138 | 7.44 | 0.267 | 72.6 | 85.1 | 11.9 | 0.214 |
| 4-1010 | 4-2170 | 0.357 | 205.0 | -45.9 | -8.61 | 1.301 | 83.5 | 0.682 | 3.064 | 16.1 | 189.3 | --- | 5.154 | 9.37 | 0.270 | 71.3 | 85.2 | 14.0 | 0.219 |
| 4-1010 | 4-2190 | 0.391 | 198.0 | -55.3 | -11.93 | 1.302 | 83.9 | 0.682 | 3.074 | 15.1 | 190.0 | --- | 5.170 | 12.67 | 0.272 | 70.1 | 85.6 | 17.4 | 0.227 |
| 4-1010 | 4-2210 | 0.483 | 173.8 | -67.0 | -18.73 | 1.302 | 84.3 | 0.683 | 3.083 | 14.0 | 190.7 | --- | 5.188 | 19.46 | 0.275 | 69.0 | 86.6 | 23.4 | 0.245 |
| 4-1010 | 4-2230 | 0.822 | 105.2 | -62.9 | -38.96 | 1.302 | 84.7 | 0.683 | 3.094 | 13.1 | 191.3 | --- | 5.208 | 39.67 | 0.277 | 67.9 | 90.7 | 34.0 | 0.319 |
| 4-1010 | 4-2250 | 1.312 | 356.0 | 84.9 | 67.79 | 1.303 | 85.6 | 0.683 | 3.105 | 10.7 | 191.9 | --- | 5.226 | -67.10 | 0.280 | 66.9 | 96.5 | -29.7 | 0.439 |
| 4-1010 | 4-2270 | 0.608 | 248.7 | 53.8 | 26.64 | 1.303 | 85.9 | 0.684 | 3.116 | 10.0 | 192.5 | --- | 5.247 | -25.97 | 0.283 | 65.9 | 89.0 | -21.5 | 0.272 |
| 4-1010 | 4-2290 | 0.435 | 244.5 | 34.5 | 15.84 | 1.304 | 86.4 | 0.685 | 3.127 | 8.9 | 193.1 | --- | 5.269 | -15.19 | 0.285 | 64.9 | 87.8 | -13.0 | 0.244 |
| 4-1010 | 4-2310 | 0.374 | 243.5 | 22.6 | 11.29 | 1.304 | 86.9 | 0.686 | 3.139 | 7.7 | 193.7 | --- | 5.291 | -10.66 | 0.288 | 64.0 | 87.8 | -8.5 | 0.238 |
| 4-1010 | 4-2330 | 0.346 | 243.8 | 14.7 | 8.82 | 1.305 | 87.4 | 0.687 | 3.151 | 6.5 | 194.3 | --- | 5.314 | -8.20 | 0.291 | 63.2 | 88.2 | -5.9 | 0.238 |
| 4-1010 | 4-2350 | 0.330 | 244.8 | 9.0 | 7.26 | 1.305 | 87.9 | 0.687 | 3.164 | 5.2 | 194.8 | --- | 5.338 | -6.66 | 0.293 | 62.3 | 88.7 | -4.2 | 0.239 |
| 4-1010 | 4-2370 | 0.321 | 246.2 | 4.7 | 6.19 | 1.306 | 88.4 | 0.688 | 3.176 | 4.0 | 195.3 | --- | 5.363 | -5.61 | 0.296 | 61.5 | 89.4 | -3.0 | 0.241 |
| 4-1010 | 4-2390 | 0.316 | 247.8 | 1.4 | 5.42 | 1.306 | 88.9 | 0.690 | 3.189 | 2.7 | 195.8 | --- | 5.388 | -4.85 | 0.298 | 60.8 | 90.1 | -2.1 | 0.243 |
| 4-1010 | 4-2410 | 0.312 | 249.7 | -1.3 | 4.82 | 1.307 | 89.5 | 0.691 | 3.202 | 1.3 | 196.3 | --- | 5.414 | -4.27 | 0.301 | 60.0 | 90.9 | -1.5 | 0.246 |
| 4-1010 | 4-2430 | 0.310 | 251.7 | -3.6 | 4.35 | 1.307 | 90.0 | 0.692 | 3.215 | 360.0 | 556.8 | 0.990 | 5.440 | -3.82 | 0.303 | 59.3 | 91.7 | -0.9 | 0.248 |
| 4-1010 | 4-2450 | 0.310 | 253.8 | -5.6 | 3.97 | 1.308 | 90.6 | 0.693 | 3.229 | 358.6 | 557.3 | 0.990 | 5.467 | -3.46 | 0.306 | 58.6 | 92.6 | -0.5 | 0.251 |
| 4-1010 | 4-2470 | 0.310 | 256.0 | -7.1 | 3.66 | 1.308 | 91.1 | 0.695 | 3.242 | 357.3 | 557.7 | 0.990 | 5.495 | -3.16 | 0.308 | 58.0 | 93.5 | -0.2 | 0.254 |
| 4-1010 | 4-2490 | 0.311 | 258.3 | -8.5 | 3.39 | 1.309 | 91.7 | 0.696 | 3.256 | 355.9 | 558.2 | 0.989 | 5.523 | -2.91 | 0.310 | 57.3 | 94.5 | 0.1 | 0.257 |
| 4-1010 | 4-2510 | 0.312 | 260.6 | -9.8 | 3.16 | 1.309 | 92.3 | 0.698 | 3.270 | 354.5 | 558.6 | 0.989 | 5.551 | -2.71 | 0.313 | 56.7 | 95.5 | 0.3 | 0.260 |
| 4-1010 | 4-2530 | 0.314 | 263.0 | -10.8 | 2.97 | 1.310 | 92.9 | 0.699 | 3.284 | 353.0 | 559.0 | 0.987 | 5.581 | -2.53 | 0.315 | 56.1 | 96.6 | 0.5 | 0.263 |
| 4-1010 | 4-2550 | 0.317 | 265.4 | -11.8 | 2.79 | 1.310 | 93.5 | 0.701 | 3.298 | 351.6 | 559.4 | 0.986 | 5.610 | -2.37 | 0.317 | 55.5 | 97.7 | 0.7 | 0.266 |
| 4-1010 | 4-2570 | 0.321 | 267.8 | -12.6 | 2.64 | 1.311 | 94.1 | 0.703 | 3.312 | 350.1 | 559.7 | 0.984 | 5.640 | -2.24 | 0.319 | 55.0 | 98.8 | 0.9 | 0.269 |
| 4-1010 | 4-2590 | 0.325 | 270.2 | -13.3 | 2.50 | 1.311 | 94.7 | 0.705 | 3.327 | 348.7 | 560.1 | 0.982 | 5.671 | -2.12 | 0.321 | 54.4 | 100.0 | 1.0 | 0.272 |
| 4-1010 | 4-2610 | 0.329 | 272.6 | -13.9 | 2.38 | 1.312 | 95.3 | 0.707 | 3.341 | 347.2 | 560.4 | 0.980 | 5.702 | -2.02 | 0.324 | 53.8 | 101.1 | 1.1 | 0.275 |
| 4-1020 | 4-1300 | 0.642 | 222.0 | -14.9 | 0.50 | 1.584 | 76.4 | 1.469 | -2.019 | 22.8 | 112.4 | --- | --- | 1.21 | 0.934 | 162.0 | 112.3 | 3.2 | 0.918 |
| 4-1020 | 4-1320 | 0.606 | 219.0 | -14.1 | 0.47 | 1.539 | 75.7 | 1.334 | -2.815 | 24.9 | 116.0 | --- | --- | 1.21 | 0.856 | 160.9 | 112.5 | 3.2 | 0.842 |
| 4-1020 | 4-1340 | 0.579 | 216.2 | -13.2 | 0.43 | 1.502 | 75.1 | 1.226 | -4.130 | 26.9 | 119.7 | --- | --- | 1.21 | 0.788 | 159.8 | 112.6 | 3.3 | 0.775 |
| 4-1020 | 4-1360 | 0.557 | 213.6 | -12.4 | 0.40 | 1.471 | 74.6 | 1.139 | -6.667 | 28.9 | 123.3 | --- | --- | 1.21 | 0.727 | 158.5 | 112.7 | 3.3 | 0.715 |
| 4-1020 | 4-1380 | 0.540 | 211.2 | -11.7 | 0.36 | 1.445 | 74.1 | 1.06 | 813.481 | 30.8 | 126.7 | --- | --- | 1.22 | 0.673 | 157.1 | 112.7 | 3.3 | 0.663 |
| 4-1020 | 4-1400 | 0.527 | 209.1 | -11.0 | 0.33 | 1.423 | 73.6 | 1.01 | 088.573 | 32.5 | 130.1 | --- | --- | 1.22 | 0.625 | 155.7 | 112.7 | 3.3 | 0.615 |
| 4-1020 | 4-1420 | 0.516 | 207.2 | -10.4 | 0.29 | 1.405 | 73.3 | 0.96 | 324.284 | 34.2 | 133.4 | --- | --- | 1.23 | 0.582 | 154.2 | 112.6 | 3.4 | 0.573 |
| 4-1020 | 4-1440 | 0.507 | 205.5 | -9.8 | 0.26 | 1.389 | 72.9 | 0.92 | 311.723 | 35.7 | 136.5 | --- | --- | 1.23 | 0.543 | 152.5 | 112.5 | 3.4 | 0.535 |
| 4-1020 | 4-1460 | 0.500 | 204.0 | -9.4 | 0.22 | 1.375 | 72.6 | 0.890 | 8.159 | 37.0 | 139.5 | --- | --- | 1.24 | 0.508 | 150.8 | 112.3 | 3.5 | 0.500 |
| 4-1020 | 4-1480 | 0.494 | 202.7 | -9.0 | 0.19 | 1.364 | 72.4 | 0.862 | 6.487 | 38.2 | 142.3 | --- | --- | 1.25 | 0.477 | 148.9 | 112.0 | 3.5 | 0.469 |
| 4-1020 | 4-1500 | 0.489 | 201.6 | -8.6 | 0.15 | 1.354 | 72.2 | 0.839 | 5.523 | 39.3 | 145.0 | --- | --- | 1.26 | 0.448 | 147.0 | 111.7 | 3.5 | 0.440 |
| 4-1020 | 4-1520 | 0.485 | 200.6 | -8.4 | 0.11 | 1.345 | 72.0 | 0.819 | 4.901 | 40.2 | 147.6 | --- | --- | 1.27 | 0.423 | 144.9 | 111.2 | 3.6 | 0.414 |
| 4-1020 | 4-1540 | 0.481 | 199.8 | -8.2 | 0.07 | 1.338 | 71.9 | 0.802 | 4.470 | 41.0 | 150.0 | --- | --- | 1.28 | 0.399 | 142.7 | 110.8 | 3.7 | 0.391 |
| 4-1020 | 4-1560 | 0.477 | 199.2 | -8.0 | 0.03 | 1.332 | 71.8 | 0.788 | 4.157 | 41.6 | 152.3 | --- | --- | 1.29 | 0.378 | 140.4 | 110.2 | 3.7 | 0.369 |
| 4-1020 | 4-1580 | 0.474 | 198.6 | -7.9 | -0.01 | 1.326 | 71.7 | 0.775 | 3.920 | 42.1 | 154.5 | --- | --- | 1.31 | 0.359 | 138.0 | 109.5 | 3.8 | 0.350 |
| 4-1020 | 4-1600 | 0.470 | 198.2 | -7.8 | -0.05 | 1.322 | 71.7 | 0.765 | 3.737 | 42.5 | 156.5 | --- | --- | 1.32 | 0.342 | 135.6 | 108.8 | 3.9 | 0.332 |
| 4-1020 | 4-1620 | 0.467 | 197.9 | -7.8 | -0.09 | 1.318 | 71.7 | 0.755 | 3.593 | 42.8 | 158.5 | --- | --- | 1.34 | 0.327 | 133.0 | 108.0 | 3.9 | 0.316 |
| 4-1020 | 4-1640 | 0.464 | 197.6 | -7.9 | -0.13 | 1.314 | 71.8 | 0.747 | 3.478 | 43.0 | 160.3 | --- | --- | 1.36 | 0.314 | 130.3 | 107.1 | 4.0 | 0.301 |
| 4-1020 | 4-1660 | 0.460 | 197.5 | -8.0 | -0.18 | 1.311 | 71.8 | 0.740 | 3.384 | 43.1 | 162.1 | --- | --- | 1.38 | 0.302 | 127.6 | 106.1 | 4.1 | 0.287 |
| 4-1020 | 4-1680 | 0.457 | 197.4 | -8.1 | -0.23 | 1.308 | 71.9 | 0.734 | 3.308 | 43.1 | 163.8 | --- | --- | 1.41 | 0.291 | 124.8 | 105.1 | 4.2 | 0.275 |
| 4-1020 | 4-1700 | 0.454 | 197.5 | -8.2 | -0.28 | 1.306 | 72.0 | 0.729 | 3.245 | 43.0 | 165.4 | --- | --- | 1.43 | 0.282 | 122.0 | 104.0 | 4.3 | 0.265 |
| 4-1020 | 4-1720 | 0.450 | 197.5 | -8.4 | -0.33 | 1.304 | 72.2 | 0.724 | 3.194 | 42.9 | 166.9 | --- | --- | 1.46 | 0.274 | 119.1 | 102.9 | 4.4 | 0.255 |
| 4-1020 | 4-1740 | 0.447 | 197.7 | -8.6 | -0.38 | 1.303 | 72.3 | 0.720 | 3.151 | 42.6 | 168.4 | --- | --- | 1.49 | 0.267 | 116.2 | 101.7 | 4.5 | 0.246 |
| 4-1020 | 4-1760 | 0.443 | 197.9 | -8.9 | -0.44 | 1.301 | 72.5 | 0.716 | 3.116 | 42.3 | 169.7 | --- | --- | 1.52 | 0.261 | 113.3 | 100.4 | 4.5 | 0.239 |
| 4-1020 | 4-1780 | 0.439 | 198.1 | -9.2 | -0.49 | 1.300 | 72.7 | 0.713 | 3.087 | 41.9 | 171.1 | --- | --- | 1.56 | 0.256 | 110.5 | 99.2 | 4.6 | 0.232 |
| 4-1020 | 4-1800 | 0.435 | 198.5 | -9.5 | -0.55 | 1.299 | 72.9 | 0.710 | 3.063 | 41.5 | 172.4 | --- | --- | 1.60 | 0.252 | 107.7 | 97.9 | 4.7 | 0.226 |
| 4-1020 | 4-1820 | 0.431 | 198.8 | -9.9 | -0.62 | 1.298 | 73.2 | 0.707 | 3.044 | 41.0 | 173.6 | --- | --- | 1.64 | 0.249 | 104.9 | 96.6 | 4.8 | 0.221 |
| 4-1020 | 4-1840 | 0.427 | 199.2 | -10.3 | -0.69 | 1.298 | 73.4 | 0.705 | 3.029 | 40.5 | 174.8 | --- | --- | 1.69 | 0.247 | 102.2 | 95.4 | 4.9 | 0.217 |
| 4-1020 | 4-1860 | 0.423 | 199.7 | -10.7 | -0.76 | 1.297 | 73.7 | 0.702 | 3.017 | 39.9 | 175.9 | --- | --- | 1.74 | 0.246 | 99.6 | 94.1 | 5.0 | 0.213 |
| 4-1020 | 4-1880 | 0.419 | 200.2 | -11.2 | -0.84 | 1.297 | 74.0 | 0.701 | 3.008 | 39.2 | 177.0 | --- | --- | 1.80 | 0.245 | 97.0 | 92.9 | 5.1 | 0.210 |
| 4-1020 | 4-1900 | 0.414 | 200.8 | -11.7 | -0.92 | 1.297 | 74.3 | 0.699 | 3.001 | 38.6 | 178.0 | --- | --- | 1.86 | 0.244 | 94.6 | 91.8 | 5.2 | 0.208 |
| 4-1020 | 4-1920 | 0.410 | 201.3 | -12.3 | -1.01 | 1.296 | 74.6 | 0.697 | 2.997 | 37.8 | 179.0 | --- | --- | 1.93 | 0.244 | 92.2 | 90.7 | 5.3 | 0.206 |
| 4-1020 | 4-1940 | 0.405 | 202.0 | -12.9 | -1.11 | 1.296 | 74.9 | 0.696 | 2.994 | 37.1 | 180.0 | --- | 5.078 | 2.01 | 0.245 | 90.0 | 89.7 | 5.5 | 0.205 |
| 4-1020 | 4-1960 | 0.401 | 202.6 | -13.6 | -1.22 | 1.296 | 75.2 | 0.695 | 2.994 | 36.3 | 181.0 | --- | 5.073 | 2.09 | 0.246 | 87.8 | 88.8 | 5.6 | 0.204 |
| 4-1020 | 4-1980 | 0.396 | 203.3 | -14.3 | -1.33 | 1.296 | 75.6 | 0.694 | 2.994 | 35.5 | 181.9 | --- | 5.071 | 2.19 | 0.247 | 85.8 | 88.0 | 5.7 | 0.204 |
| 4-1020 | 4-2000 | 0.392 | 204.1 | -15.1 | -1.46 | 1.296 | 75.9 | 0.693 | 2.997 | 34.6 | 182.8 | --- | 5.072 | 2.29 | 0.248 | 83.8 | 87.3 | 5.8 | 0.204 |
| 4-1020 | 4-2020 | 0.387 | 204.9 | -15.9 | -1.60 | 1.297 | 76.3 | 0.692 | 3.000 | 33.7 | 183.6 | --- | 5.076 | 2.41 | 0.250 | 82.0 | 86.6 | 6.0 | 0.205 |
| 4-1020 | 4-2040 | 0.383 | 205.7 | -16.8 | -1.75 | 1.297 | 76.7 | 0.691 | 3.005 | 32.8 | 184.5 | --- | 5.081 | 2.55 | 0.252 | 80.2 | 86.1 | 6.1 | 0.205 |
| 4-1020 | 4-2060 | 0.378 | 206.5 | -17.9 | -1.93 | 1.297 | 77.1 | 0.690 | 3.010 | 31.8 | 185.3 | --- | 5.089 | 2.71 | 0.254 | 78.5 | 85.6 | 6.3 | 0.206 |
| 4-1020 | 4-2080 | 0.374 | 207.3 | -19.0 | -2.13 | 1.297 | 77.5 | 0.690 | 3.017 | 30.8 | 186.0 | --- | 5.098 | 2.89 | 0.256 | 77.0 | 85.3 | 6.5 | 0.208 |
| 4-1020 | 4-2100 | 0.370 | 208.2 | -20.3 | -2.36 | 1.298 | 77.9 | 0.689 | 3.024 | 29.8 | 186.8 | --- | 5.109 | 3.10 | 0.259 | 75.5 | 85.0 | 6.8 | 0.209 |
| 4-1020 | 4-2120 | 0.366 | 209.1 | -21.7 | -2.62 | 1.298 | 78.3 | 0.689 | 3.032 | 28.8 | 187.5 | --- | 5.121 | 3.34 | 0.261 | 74.1 | 84.8 | 7.0 | 0.211 |
| 4-1020 | 4-2140 | 0.362 | 209.9 | -23.3 | -2.94 | 1.298 | 78.7 | 0.689 | 3.041 | 27.7 | 188.3 | --- | 5.135 | 3.63 | 0.264 | 72.7 | 84.8 | 7.4 | 0.213 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1020 | 4-2160 | 0.359 | 210.7 | -25.1 | -3.31 | 1.299 | 79.2 | 0.689 | 3.050 | 26.6 | 189.0 | --- | 5.150 | 3.99 | 0.266 | 71.4 | 84.8 | 7.7 | 0.215 |
| 4-1020 | 4-2180 | 0.358 | 211.5 | -27.3 | -3.76 | 1.299 | 79.6 | 0.688 | 3.060 | 25.5 | 189.6 | --- | 5.166 | 4.42 | 0.269 | 70.2 | 84.9 | 8.2 | 0.217 |
| 4-1020 | 4-2200 | 0.354 | 212.1 | -29.8 | -4.33 | 1.299 | 80.1 | 0.688 | 3.070 | 24.4 | 190.3 | --- | 5.183 | 4.97 | 0.272 | 69.1 | 85.1 | 8.8 | 0.220 |
| 4-1020 | 4-2220 | 0.354 | 212.5 | -32.9 | -5.06 | 1.300 | 80.5 | 0.688 | 3.081 | 23.3 | 191.0 | --- | 5.201 | 5.68 | 0.275 | 68.0 | 85.4 | 9.6 | 0.223 |
| 4-1020 | 4-2240 | 0.356 | 212.5 | -36.9 | -6.03 | 1.300 | 81.0 | 0.688 | 3.092 | 22.1 | 191.6 | --- | 5.220 | 6.63 | 0.277 | 67.0 | 85.7 | 10.6 | 0.226 |
| 4-1020 | 4-2260 | 0.362 | 211.6 | -41.9 | -7.40 | 1.301 | 81.5 | 0.689 | 3.103 | 20.9 | 192.2 | --- | 5.240 | 7.99 | 0.280 | 66.0 | 86.2 | 12.0 | 0.230 |
| 4-1020 | 4-2280 | 0.377 | 208.9 | -48.7 | -9.47 | 1.301 | 82.0 | 0.689 | 3.115 | 19.7 | 192.8 | --- | 5.261 | 10.04 | 0.283 | 65.1 | 86.9 | 14.0 | 0.235 |
| 4-1020 | 4-2300 | 0.413 | 201.3 | -57.9 | -12.96 | 1.302 | 82.4 | 0.689 | 3.127 | 18.6 | 193.4 | --- | 5.283 | 13.51 | 0.286 | 64.2 | 87.8 | 17.3 | 0.244 |
| 4-1020 | 4-2320 | 0.510 | 174.5 | -68.6 | -20.01 | 1.302 | 82.9 | 0.690 | 3.140 | 17.4 | 193.9 | --- | 5.305 | 20.53 | 0.288 | 63.3 | 89.5 | 23.2 | 0.263 |
| 4-1020 | 4-2340 | 0.842 | 109.3 | -62.2 | -39.96 | 1.303 | 83.3 | 0.690 | 3.152 | 16.3 | 194.5 | --- | 5.328 | 40.47 | 0.291 | 62.5 | 94.8 | 33.1 | 0.335 |
| 4-1020 | 4-2360 | 1.384 | 77.0 | 86.6 | 72.30 | 1.303 | 84.4 | 0.690 | 3.165 | 13.7 | 195.0 | --- | 5.350 | -71.81 | 0.294 | 61.8 | 102.6 | -28.7 | 0.469 |
| 4-1020 | 4-2380 | 0.653 | 249.4 | 55.6 | 29.11 | 1.304 | 84.7 | 0.691 | 3.179 | 13.0 | 195.5 | --- | 5.375 | -28.64 | 0.296 | 61.1 | 93.4 | -21.9 | 0.295 |
| 4-1020 | 4-2400 | 0.459 | 247.7 | 35.7 | 17.15 | 1.304 | 85.2 | 0.692 | 3.192 | 11.8 | 196.0 | --- | 5.400 | -16.70 | 0.299 | 60.3 | 91.8 | -13.4 | 0.263 |
| 4-1020 | 4-2420 | 0.389 | 247.6 | 23.3 | 12.12 | 1.305 | 85.7 | 0.692 | 3.206 | 10.5 | 196.5 | --- | 5.425 | -11.69 | 0.302 | 59.7 | 92.0 | -8.8 | 0.256 |
| 4-1020 | 4-2440 | 0.357 | 248.4 | 15.0 | 9.39 | 1.305 | 86.2 | 0.693 | 3.220 | 9.2 | 197.0 | --- | 5.451 | -8.98 | 0.304 | 59.0 | 92.6 | -6.1 | 0.255 |
| 4-1020 | 4-2460 | 0.339 | 249.7 | 9.1 | 7.67 | 1.306 | 86.8 | 0.694 | 3.233 | 7.9 | 197.4 | --- | 5.478 | -7.28 | 0.307 | 58.4 | 93.4 | -4.4 | 0.255 |
| 4-1020 | 4-2480 | 0.328 | 251.3 | 4.7 | 6.50 | 1.306 | 87.3 | 0.695 | 3.248 | 6.5 | 197.9 | --- | 5.505 | -6.13 | 0.309 | 57.8 | 94.2 | -3.2 | 0.257 |
| 4-1020 | 4-2500 | 0.321 | 253.2 | 1.2 | 5.65 | 1.307 | 87.9 | 0.696 | 3.262 | 5.1 | 198.3 | --- | 5.532 | -5.30 | 0.311 | 57.2 | 95.2 | -2.3 | 0.259 |
| 4-1020 | 4-2520 | 0.317 | 255.2 | -1.6 | 5.00 | 1.307 | 88.5 | 0.697 | 3.276 | 3.7 | 198.8 | --- | 5.560 | -4.67 | 0.314 | 56.6 | 96.2 | -1.6 | 0.262 |
| 4-1020 | 4-2540 | 0.314 | 257.5 | -3.9 | 4.48 | 1.308 | 89.1 | 0.698 | 3.291 | 2.3 | 199.2 | --- | 5.589 | -4.17 | 0.316 | 56.0 | 97.3 | -1.1 | 0.264 |
| 4-1020 | 4-2560 | 0.312 | 259.8 | -5.8 | 4.07 | 1.308 | 89.6 | 0.700 | 3.305 | 0.9 | 199.6 | --- | 5.618 | -3.78 | 0.318 | 55.5 | 98.3 | -0.7 | 0.267 |
| 4-1020 | 4-2580 | 0.312 | 262.2 | -7.4 | 3.72 | 1.309 | 90.2 | 0.701 | 3.320 | 359.4 | 559.9 | 0.993 | 5.647 | -3.45 | 0.320 | 55.0 | 99.5 | -0.3 | 0.269 |
| 4-1020 | 4-2600 | 0.312 | 264.7 | -8.8 | 3.43 | 1.309 | 90.8 | 0.702 | 3.335 | 357.9 | 560.3 | 0.993 | 5.677 | -3.18 | 0.323 | 54.5 | 100.6 | -0.1 | 0.272 |
| 4-1020 | 4-2620 | 0.313 | 267.2 | -10.0 | 3.19 | 1.310 | 91.5 | 0.704 | 3.350 | 356.5 | 560.7 | 0.992 | 5.707 | -2.95 | 0.325 | 54.0 | 101.8 | 0.2 | 0.275 |
| 4-1030 | 4-1350 | 0.648 | 211.8 | -11.9 | 0.42 | 1.486 | 68.6 | 1.173 | -5.031 | 39.5 | 123.1 | --- | --- | 1.28 | 0.760 | 159.9 | 112.1 | 3.3 | 0.753 |
| 4-1030 | 4-1370 | 0.629 | 209.6 | -11.2 | 0.38 | 1.456 | 68.2 | 1.097 | -8.910 | 41.6 | 126.8 | --- | --- | 1.28 | 0.701 | 158.7 | 112.1 | 3.3 | 0.695 |
| 4-1030 | 4-1390 | 0.614 | 207.7 | -10.6 | 0.35 | 1.432 | 67.9 | 1.035 | 24.356 | 43.5 | 130.3 | --- | --- | 1.28 | 0.648 | 157.3 | 112.0 | 3.3 | 0.644 |
| 4-1030 | 4-1410 | 0.602 | 206.1 | -10.1 | 0.31 | 1.411 | 67.6 | 0.985 | 55.944 | 45.2 | 133.7 | --- | --- | 1.28 | 0.602 | 155.8 | 111.9 | 3.4 | 0.599 |
| 4-1030 | 4-1430 | 0.592 | 204.6 | -9.6 | 0.27 | 1.393 | 67.3 | 0.943 | 14.902 | 46.8 | 136.9 | --- | --- | 1.28 | 0.560 | 154.2 | 111.7 | 3.4 | 0.558 |
| 4-1030 | 4-1450 | 0.584 | 203.3 | -9.2 | 0.24 | 1.379 | 67.1 | 0.909 | 9.223 | 48.2 | 139.9 | --- | --- | 1.28 | 0.522 | 152.5 | 111.5 | 3.4 | 0.521 |
| 4-1030 | 4-1470 | 0.577 | 202.2 | -8.9 | 0.20 | 1.366 | 66.9 | 0.881 | 6.980 | 49.5 | 142.8 | --- | --- | 1.28 | 0.488 | 150.7 | 111.2 | 3.5 | 0.487 |
| 4-1030 | 4-1490 | 0.571 | 201.3 | -8.6 | 0.16 | 1.355 | 66.8 | 0.857 | 5.787 | 50.6 | 145.5 | --- | --- | 1.28 | 0.457 | 148.8 | 110.8 | 3.5 | 0.457 |
| 4-1030 | 4-1510 | 0.566 | 200.5 | -8.4 | 0.13 | 1.346 | 66.7 | 0.837 | 5.053 | 51.5 | 148.1 | --- | --- | 1.28 | 0.429 | 146.8 | 110.4 | 3.6 | 0.430 |
| 4-1030 | 4-1530 | 0.561 | 199.9 | -8.2 | 0.09 | 1.338 | 66.6 | 0.820 | 4.560 | 52.3 | 150.5 | --- | --- | 1.29 | 0.404 | 144.6 | 109.9 | 3.6 | 0.405 |
| 4-1030 | 4-1550 | 0.557 | 199.4 | -8.1 | 0.05 | 1.331 | 66.6 | 0.805 | 4.210 | 52.9 | 152.8 | --- | --- | 1.30 | 0.382 | 142.4 | 109.3 | 3.7 | 0.382 |
| 4-1030 | 4-1570 | 0.552 | 198.9 | -8.0 | 0.01 | 1.325 | 66.6 | 0.793 | 3.949 | 53.4 | 155.0 | --- | --- | 1.30 | 0.362 | 140.0 | 108.6 | 3.7 | 0.362 |
| 4-1030 | 4-1590 | 0.548 | 198.6 | -7.9 | -0.02 | 1.320 | 66.6 | 0.782 | 3.751 | 53.8 | 157.0 | --- | --- | 1.31 | 0.343 | 137.5 | 107.8 | 3.8 | 0.343 |
| 4-1030 | 4-1610 | 0.544 | 198.4 | -7.9 | -0.06 | 1.316 | 66.7 | 0.773 | 3.596 | 54.1 | 158.9 | --- | --- | 1.32 | 0.327 | 134.9 | 107.0 | 3.9 | 0.326 |
| 4-1030 | 4-1630 | 0.540 | 198.2 | -8.0 | -0.10 | 1.312 | 66.8 | 0.765 | 3.473 | 54.2 | 160.8 | --- | --- | 1.33 | 0.312 | 132.2 | 106.1 | 3.9 | 0.311 |
| 4-1030 | 4-1650 | 0.536 | 198.1 | -8.0 | -0.15 | 1.309 | 66.9 | 0.758 | 3.374 | 54.3 | 162.5 | --- | --- | 1.34 | 0.299 | 129.4 | 105.2 | 4.0 | 0.297 |
| 4-1030 | 4-1670 | 0.532 | 198.1 | -8.1 | -0.19 | 1.306 | 67.0 | 0.752 | 3.293 | 54.3 | 164.1 | --- | --- | 1.36 | 0.288 | 126.6 | 104.1 | 4.1 | 0.285 |
| 4-1030 | 4-1690 | 0.528 | 198.1 | -8.3 | -0.23 | 1.303 | 67.2 | 0.746 | 3.228 | 54.1 | 165.7 | --- | --- | 1.37 | 0.278 | 123.6 | 103.0 | 4.2 | 0.273 |
| 4-1030 | 4-1710 | 0.523 | 198.2 | -8.4 | -0.27 | 1.301 | 67.4 | 0.741 | 3.174 | 53.9 | 167.2 | --- | --- | 1.39 | 0.270 | 120.7 | 101.9 | 4.2 | 0.263 |
| 4-1030 | 4-1730 | 0.519 | 198.4 | -8.6 | -0.32 | 1.300 | 67.5 | 0.737 | 3.130 | 53.7 | 168.6 | --- | --- | 1.41 | 0.262 | 117.7 | 100.7 | 4.3 | 0.254 |
| 4-1030 | 4-1750 | 0.515 | 198.6 | -8.8 | -0.37 | 1.298 | 67.8 | 0.733 | 3.093 | 53.3 | 169.9 | --- | --- | 1.43 | 0.256 | 114.7 | 99.5 | 4.4 | 0.246 |
| 4-1030 | 4-1770 | 0.510 | 198.9 | -9.0 | -0.41 | 1.297 | 68.0 | 0.729 | 3.064 | 52.9 | 171.2 | --- | --- | 1.45 | 0.251 | 111.7 | 98.2 | 4.4 | 0.239 |
| 4-1030 | 4-1790 | 0.505 | 199.2 | -9.3 | -0.46 | 1.296 | 68.2 | 0.726 | 3.039 | 52.4 | 172.5 | --- | --- | 1.47 | 0.247 | 108.8 | 97.0 | 4.5 | 0.233 |
| 4-1030 | 4-1810 | 0.501 | 199.5 | -9.6 | -0.52 | 1.295 | 68.5 | 0.723 | 3.020 | 51.9 | 173.6 | --- | --- | 1.50 | 0.244 | 105.9 | 95.8 | 4.6 | 0.228 |
| 4-1030 | 4-1830 | 0.496 | 199.9 | -9.9 | -0.57 | 1.295 | 68.8 | 0.721 | 3.004 | 51.3 | 174.8 | --- | --- | 1.53 | 0.241 | 103.1 | 94.5 | 4.7 | 0.224 |
| 4-1030 | 4-1850 | 0.491 | 200.3 | -10.2 | -0.63 | 1.294 | 69.1 | 0.718 | 2.992 | 50.7 | 175.9 | --- | --- | 1.56 | 0.239 | 100.3 | 93.3 | 4.7 | 0.220 |
| 4-1030 | 4-1870 | 0.486 | 200.7 | -10.6 | -0.68 | 1.294 | 69.4 | 0.716 | 2.983 | 50.0 | 176.9 | --- | --- | 1.60 | 0.238 | 97.6 | 92.2 | 4.8 | 0.217 |
| 4-1030 | 4-1890 | 0.480 | 201.2 | -11.0 | -0.75 | 1.293 | 69.7 | 0.714 | 2.977 | 49.3 | 178.0 | --- | --- | 1.63 | 0.238 | 95.1 | 91.1 | 4.9 | 0.214 |
| 4-1030 | 4-1910 | 0.475 | 201.8 | -11.4 | -0.81 | 1.293 | 70.0 | 0.712 | 2.973 | 48.6 | 178.9 | --- | --- | 1.67 | 0.238 | 92.6 | 90.1 | 4.9 | 0.212 |
| 4-1030 | 4-1930 | 0.470 | 202.3 | -11.8 | -0.88 | 1.293 | 70.4 | 0.711 | 2.971 | 47.8 | 179.9 | --- | --- | 1.72 | 0.239 | 90.3 | 89.1 | 5.0 | 0.211 |
| 4-1030 | 4-1950 | 0.464 | 202.9 | -12.3 | -0.95 | 1.293 | 70.7 | 0.709 | 2.970 | 47.0 | 180.8 | --- | 5.076 | 1.77 | 0.240 | 88.0 | 88.2 | 5.1 | 0.210 |
| 4-1030 | 4-1970 | 0.459 | 203.6 | -12.8 | -1.03 | 1.293 | 71.1 | 0.708 | 2.971 | 46.1 | 181.7 | --- | 5.074 | 1.82 | 0.241 | 85.9 | 87.4 | 5.2 | 0.209 |
| 4-1030 | 4-1990 | 0.453 | 204.2 | -13.3 | -1.11 | 1.293 | 71.5 | 0.706 | 2.974 | 45.2 | 182.6 | --- | 5.074 | 1.88 | 0.243 | 83.9 | 86.7 | 5.2 | 0.209 |
| 4-1030 | 4-2010 | 0.448 | 204.9 | -13.9 | -1.20 | 1.293 | 71.9 | 0.705 | 2.978 | 44.3 | 183.4 | --- | 5.077 | 1.95 | 0.244 | 82.0 | 86.1 | 5.3 | 0.209 |
| 4-1030 | 4-2030 | 0.442 | 205.6 | -14.5 | -1.29 | 1.294 | 72.3 | 0.704 | 2.983 | 43.4 | 184.2 | --- | 5.082 | 2.02 | 0.247 | 80.2 | 85.6 | 5.4 | 0.210 |
| 4-1030 | 4-2050 | 0.436 | 206.4 | -15.1 | -1.40 | 1.294 | 72.7 | 0.703 | 2.989 | 42.4 | 185.0 | --- | 5.089 | 2.10 | 0.249 | 78.5 | 85.2 | 5.5 | 0.211 |
| 4-1030 | 4-2070 | 0.431 | 207.2 | -15.8 | -1.51 | 1.294 | 73.1 | 0.702 | 2.996 | 41.4 | 185.8 | --- | 5.098 | 2.19 | 0.251 | 76.8 | 84.8 | 5.6 | 0.212 |
| 4-1030 | 4-2090 | 0.425 | 208.0 | -16.6 | -1.63 | 1.295 | 73.5 | 0.701 | 3.003 | 40.4 | 186.5 | --- | 5.109 | 2.29 | 0.254 | 75.3 | 84.6 | 5.7 | 0.213 |
| 4-1030 | 4-2110 | 0.419 | 208.9 | -17.4 | -1.76 | 1.295 | 73.9 | 0.700 | 3.012 | 39.3 | 187.2 | --- | 5.121 | 2.40 | 0.257 | 73.9 | 84.4 | 5.8 | 0.215 |
| 4-1030 | 4-2130 | 0.414 | 209.7 | -18.3 | -1.91 | 1.295 | 74.4 | 0.700 | 3.021 | 38.2 | 187.9 | --- | 5.134 | 2.53 | 0.259 | 72.5 | 84.4 | 5.9 | 0.216 |
| 4-1030 | 4-2150 | 0.408 | 210.6 | -19.2 | -2.07 | 1.296 | 74.8 | 0.699 | 3.030 | 37.2 | 188.6 | --- | 5.149 | 2.67 | 0.262 | 71.2 | 84.4 | 6.1 | 0.218 |
| 4-1030 | 4-2170 | 0.403 | 211.6 | -20.3 | -2.26 | 1.296 | 75.3 | 0.698 | 3.041 | 36.0 | 189.3 | --- | 5.164 | 2.84 | 0.265 | 70.0 | 84.5 | 6.3 | 0.220 |
| 4-1030 | 4-2190 | 0.397 | 212.5 | -21.4 | -2.47 | 1.297 | 75.7 | 0.698 | 3.051 | 34.9 | 190.0 | --- | 5.181 | 3.03 | 0.268 | 68.9 | 84.7 | 6.5 | 0.222 |
| 4-1030 | 4-2210 | 0.392 | 213.5 | -22.7 | -2.71 | 1.297 | 76.2 | 0.697 | 3.063 | 33.8 | 190.6 | --- | 5.199 | 3.25 | 0.271 | 67.8 | 84.9 | 6.7 | 0.224 |
| 4-1030 | 4-2230 | 0.387 | 214.4 | -24.1 | -2.99 | 1.298 | 76.7 | 0.697 | 3.074 | 32.6 | 191.2 | --- | 5.217 | 3.51 | 0.274 | 66.8 | 85.3 | 7.0 | 0.226 |
| 4-1030 | 4-2250 | 0.383 | 215.4 | -25.8 | -3.32 | 1.298 | 77.2 | 0.697 | 3.086 | 31.4 | 191.8 | --- | 5.237 | 3.81 | 0.277 | 65.8 | 85.7 | 7.3 | 0.229 |
| 4-1030 | 4-2270 | 0.379 | 216.3 | -27.6 | -3.71 | 1.299 | 77.7 | 0.697 | 3.099 | 30.2 | 192.4 | --- | 5.257 | 4.19 | 0.280 | 64.9 | 86.2 | 7.6 | 0.231 |
| 4-1030 | 4-2290 | 0.375 | 217.1 | -29.8 | -4.19 | 1.299 | 78.2 | 0.696 | 3.111 | 29.0 | 193.0 | --- | 5.278 | 4.64 | 0.282 | 64.0 | 86.7 | 8.1 | 0.234 |
| 4-1030 | 4-2310 | 0.373 | 217.9 | -32.4 | -4.79 | 1.300 | 78.7 | 0.696 | 3.124 | 27.7 | 193.6 | --- | 5.299 | 5.22 | 0.285 | 63.2 | 87.3 | 8.7 | 0.237 |
| 4-1030 | 4-2330 | 0.372 | 218.3 | -35.6 | -5.56 | 1.300 | 79.2 | 0.696 | 3.137 | 26.5 | 194.1 | --- | 5.322 | 5.97 | 0.288 | 62.4 | 88.0 | 9.4 | 0.240 |
| 4-1030 | 4-2350 | 0.374 | 218.4 | -39.5 | -6.59 | 1.301 | 79.7 | 0.696 | 3.151 | 25.2 | 194.6 | --- | 5.345 | 6.98 | 0.291 | 61.7 | 88.8 | 10.4 | 0.243 |
| 4-1030 | 4-2370 | 0.380 | 217.6 | -44.6 | -8.04 | 1.301 | 80.2 | 0.696 | 3.164 | 23.9 | 195.2 | --- | 5.368 | 8.41 | 0.294 | 60.9 | 89.6 | 11.8 | 0.247 |
| 4-1030 | 4-2390 | 0.396 | 214.8 | -51.5 | -10.24 | 1.302 | 80.7 | 0.697 | 3.178 | 22.6 | 195.7 | --- | 5.392 | 10.59 | 0.296 | 60.3 | 90.6 | 13.9 | 0.253 |
| 4-1030 | 4-2410 | 0.435 | 206.5 | -60.7 | -13.94 | 1.302 | 81.3 | 0.697 | 3.192 | 21.3 | 196.2 | --- | 5.417 | 14.27 | 0.299 | 59.6 | 92.0 | 17.2 | 0.261 |
| 4-1030 | 4-2430 | 0.538 | 175.6 | -70.7 | -21.43 | 1.303 | 81.8 | 0.697 | 3.207 | 20.1 | 196.6 | --- | 5.442 | 21.74 | 0.302 | 59.0 | 94.2 | 23.0 | 0.281 |
| 4-1030 | 4-2450 | 0.889 | 111.6 | -61.0 | -42.54 | 1.303 | 82.2 | 0.698 | 3.221 | 19.0 | 197.1 | --- | 5.468 | 42.83 | 0.304 | 58.3 | 100.8 | 32.6 | 0.356 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1030 | 4-2470 | 1.361 | 156.4 | 84.8 | 70.89 | 1.304 | 83.3 | 0.697 | 3.235 | 16.2 | 197.6 | --- | 5.492 | -70.62 | 0.307 | 57.9 | 108.5 | -28.3 | 0.474 |
| 4-1030 | 4-2490 | 0.663 | 250.1 | 54.3 | 29.53 | 1.304 | 83.7 | 0.698 | 3.250 | 15.4 | 198.0 | --- | 5.519 | -29.28 | 0.309 | 57.3 | 98.7 | -21.2 | 0.311 |
| 4-1030 | 4-2510 | 0.470 | 251.2 | 34.7 | 17.51 | 1.305 | 84.2 | 0.699 | 3.265 | 14.1 | 198.4 | --- | 5.547 | -17.28 | 0.312 | 56.7 | 97.2 | -13.0 | 0.280 |
| 4-1030 | 4-2530 | 0.398 | 252.1 | 22.3 | 12.37 | 1.305 | 84.7 | 0.700 | 3.280 | 12.8 | 198.9 | --- | 5.574 | -12.16 | 0.314 | 56.2 | 97.5 | -8.6 | 0.272 |
| 4-1030 | 4-2550 | 0.364 | 253.4 | 14.0 | 9.55 | 1.306 | 85.3 | 0.700 | 3.295 | 11.4 | 199.3 | --- | 5.602 | -9.36 | 0.317 | 55.7 | 98.2 | -6.0 | 0.271 |
| 4-1030 | 4-2570 | 0.345 | 255.1 | 8.1 | 7.78 | 1.306 | 85.9 | 0.701 | 3.310 | 10.0 | 199.7 | --- | 5.630 | -7.61 | 0.319 | 55.2 | 99.2 | -4.3 | 0.271 |
| 4-1030 | 4-2590 | 0.334 | 257.0 | 3.7 | 6.56 | 1.307 | 86.5 | 0.702 | 3.325 | 8.6 | 200.1 | --- | 5.659 | -6.41 | 0.321 | 54.7 | 100.3 | -3.1 | 0.273 |
| 4-1030 | 4-2610 | 0.326 | 259.2 | 0.3 | 5.67 | 1.307 | 87.1 | 0.703 | 3.340 | 7.1 | 200.4 | --- | 5.688 | -5.55 | 0.323 | 54.3 | 101.4 | -2.3 | 0.275 |
| 4-1030 | 4-2630 | 0.321 | 261.4 | -2.4 | 4.99 | 1.308 | 87.7 | 0.704 | 3.356 | 5.6 | 200.8 | --- | 5.717 | -4.89 | 0.326 | 53.8 | 102.5 | -1.6 | 0.277 |
| 4-1040 | 4-1400 | 0.705 | 206.3 | -10.3 | 0.33 | 1.418 | 61.5 | 1.00629 | .901 | 56.9 | 134.6 | --- | --- | 1.34 | 0.622 | 157.7 | 111.0 | 3.4 | 0.628 |
| 4-1040 | 4-1420 | 0.692 | 205.1 | -9.9 | 0.30 | 1.398 | 61.3 | 0.96421 | .077 | 58.6 | 137.9 | --- | --- | 1.33 | 0.577 | 156.2 | 110.7 | 3.4 | 0.583 |
| 4-1040 | 4-1440 | 0.682 | 204.0 | -9.5 | 0.26 | 1.382 | 61.2 | 0.92910 | .699 | 60.0 | 141.0 | --- | --- | 1.32 | 0.536 | 154.6 | 110.5 | 3.4 | 0.544 |
| 4-1040 | 4-1460 | 0.673 | 203.1 | -9.2 | 0.22 | 1.368 | 61.1 | 0.901 | 7.574 | 61.3 | 143.9 | --- | --- | 1.32 | 0.499 | 152.8 | 110.1 | 3.5 | 0.508 |
| 4-1040 | 4-1480 | 0.665 | 202.4 | -9.0 | 0.18 | 1.356 | 61.1 | 0.877 | 6.078 | 62.4 | 146.6 | --- | --- | 1.31 | 0.466 | 151.0 | 109.7 | 3.5 | 0.476 |
| 4-1040 | 4-1500 | 0.659 | 201.7 | -8.8 | 0.15 | 1.346 | 61.1 | 0.857 | 5.209 | 63.3 | 149.2 | --- | --- | 1.31 | 0.436 | 149.0 | 109.2 | 3.6 | 0.447 |
| 4-1040 | 4-1520 | 0.652 | 201.2 | -8.7 | 0.11 | 1.337 | 61.1 | 0.840 | 4.645 | 64.1 | 151.5 | --- | --- | 1.31 | 0.409 | 146.9 | 108.7 | 3.6 | 0.421 |
| 4-1040 | 4-1540 | 0.646 | 200.8 | -8.6 | 0.07 | 1.330 | 61.1 | 0.826 | 4.253 | 64.7 | 153.8 | --- | --- | 1.30 | 0.385 | 144.6 | 108.1 | 3.6 | 0.397 |
| 4-1040 | 4-1560 | 0.641 | 200.5 | -8.6 | 0.03 | 1.323 | 61.2 | 0.814 | 3.968 | 65.1 | 155.9 | --- | --- | 1.30 | 0.363 | 142.3 | 107.4 | 3.7 | 0.376 |
| 4-1040 | 4-1580 | 0.635 | 200.2 | -8.5 | -0.01 | 1.318 | 61.3 | 0.803 | 3.754 | 65.4 | 157.9 | --- | --- | 1.31 | 0.343 | 139.8 | 106.6 | 3.8 | 0.356 |
| 4-1040 | 4-1600 | 0.630 | 200.1 | -8.6 | -0.04 | 1.313 | 61.4 | 0.794 | 3.588 | 65.6 | 159.8 | --- | --- | 1.31 | 0.326 | 137.1 | 105.7 | 3.8 | 0.339 |
| 4-1040 | 4-1620 | 0.625 | 200.0 | -8.6 | -0.08 | 1.309 | 61.6 | 0.786 | 3.457 | 65.7 | 161.5 | --- | --- | 1.31 | 0.310 | 134.4 | 104.8 | 3.9 | 0.323 |
| 4-1040 | 4-1640 | 0.620 | 200.0 | -8.7 | -0.12 | 1.306 | 61.7 | 0.779 | 3.353 | 65.7 | 163.2 | --- | --- | 1.32 | 0.296 | 131.6 | 103.9 | 3.9 | 0.308 |
| 4-1040 | 4-1660 | 0.615 | 200.0 | -8.8 | -0.16 | 1.303 | 61.9 | 0.773 | 3.269 | 65.6 | 164.8 | --- | --- | 1.32 | 0.284 | 128.6 | 102.8 | 4.0 | 0.295 |
| 4-1040 | 4-1680 | 0.610 | 200.1 | -8.9 | -0.20 | 1.300 | 62.1 | 0.767 | 3.201 | 65.5 | 166.2 | --- | --- | 1.33 | 0.273 | 125.6 | 101.7 | 4.0 | 0.283 |
| 4-1040 | 4-1700 | 0.605 | 200.2 | -9.0 | -0.24 | 1.298 | 62.3 | 0.762 | 3.146 | 65.2 | 167.7 | --- | --- | 1.34 | 0.264 | 122.5 | 100.6 | 4.1 | 0.273 |
| 4-1040 | 4-1720 | 0.599 | 200.4 | -9.2 | -0.28 | 1.296 | 62.6 | 0.758 | 3.100 | 64.9 | 169.0 | --- | --- | 1.35 | 0.256 | 119.4 | 99.4 | 4.2 | 0.264 |
| 4-1040 | 4-1740 | 0.594 | 200.6 | -9.3 | -0.32 | 1.295 | 62.8 | 0.754 | 3.063 | 64.5 | 170.3 | --- | --- | 1.36 | 0.249 | 116.3 | 98.2 | 4.2 | 0.256 |
| 4-1040 | 4-1760 | 0.589 | 200.9 | -9.5 | -0.36 | 1.294 | 63.1 | 0.750 | 3.033 | 64.0 | 171.5 | --- | --- | 1.37 | 0.244 | 113.1 | 97.0 | 4.3 | 0.248 |
| 4-1040 | 4-1780 | 0.583 | 201.1 | -9.8 | -0.41 | 1.293 | 63.4 | 0.747 | 3.008 | 63.5 | 172.7 | --- | --- | 1.38 | 0.239 | 110.0 | 95.8 | 4.3 | 0.242 |
| 4-1040 | 4-1800 | 0.578 | 201.5 | -10.0 | -0.45 | 1.292 | 63.7 | 0.743 | 2.989 | 62.9 | 173.9 | --- | --- | 1.40 | 0.236 | 106.9 | 94.6 | 4.4 | 0.237 |
| 4-1040 | 4-1820 | 0.572 | 201.8 | -10.2 | -0.49 | 1.291 | 64.0 | 0.741 | 2.973 | 62.3 | 175.0 | --- | --- | 1.41 | 0.233 | 103.9 | 93.4 | 4.4 | 0.232 |
| 4-1040 | 4-1840 | 0.566 | 202.2 | -10.5 | -0.54 | 1.291 | 64.3 | 0.738 | 2.961 | 61.6 | 176.0 | --- | --- | 1.43 | 0.231 | 101.0 | 92.3 | 4.5 | 0.228 |
| 4-1040 | 4-1860 | 0.560 | 202.7 | -10.8 | -0.59 | 1.290 | 64.7 | 0.735 | 2.953 | 60.9 | 177.0 | --- | --- | 1.45 | 0.230 | 98.2 | 91.2 | 4.5 | 0.225 |
| 4-1040 | 4-1880 | 0.554 | 203.1 | -11.1 | -0.64 | 1.290 | 65.0 | 0.733 | 2.947 | 60.1 | 178.0 | --- | --- | 1.48 | 0.230 | 95.5 | 90.1 | 4.6 | 0.222 |
| 4-1040 | 4-1900 | 0.548 | 203.6 | -11.4 | -0.69 | 1.290 | 65.4 | 0.731 | 2.943 | 59.4 | 178.9 | --- | --- | 1.50 | 0.230 | 92.9 | 89.2 | 4.6 | 0.220 |
| 4-1040 | 4-1920 | 0.542 | 204.1 | -11.8 | -0.74 | 1.290 | 65.8 | 0.729 | 2.941 | 58.5 | 179.8 | --- | --- | 1.53 | 0.231 | 90.4 | 88.2 | 4.7 | 0.218 |
| 4-1040 | 4-1940 | 0.536 | 204.6 | -12.1 | -0.80 | 1.290 | 66.1 | 0.727 | 2.941 | 57.7 | 180.7 | --- | 5.079 | 1.56 | 0.232 | 88.1 | 87.4 | 4.7 | 0.217 |
| 4-1040 | 4-1960 | 0.529 | 205.2 | -12.5 | -0.86 | 1.290 | 66.5 | 0.725 | 2.943 | 56.8 | 181.6 | --- | 5.077 | 1.59 | 0.234 | 85.8 | 86.7 | 4.8 | 0.217 |
| 4-1040 | 4-1980 | 0.523 | 205.8 | -12.9 | -0.92 | 1.290 | 66.9 | 0.724 | 2.946 | 55.9 | 182.4 | --- | 5.077 | 1.62 | 0.235 | 83.7 | 86.0 | 4.8 | 0.216 |
| 4-1040 | 4-2000 | 0.517 | 206.4 | -13.3 | -0.98 | 1.290 | 67.3 | 0.722 | 2.950 | 54.9 | 183.2 | --- | 5.080 | 1.66 | 0.237 | 81.7 | 85.4 | 4.9 | 0.216 |
| 4-1040 | 4-2020 | 0.510 | 207.1 | -13.8 | -1.05 | 1.290 | 67.7 | 0.720 | 2.956 | 54.0 | 184.0 | --- | 5.085 | 1.70 | 0.240 | 79.9 | 85.0 | 4.9 | 0.217 |
| 4-1040 | 4-2040 | 0.504 | 207.7 | -14.3 | -1.12 | 1.291 | 68.2 | 0.719 | 2.962 | 53.0 | 184.8 | --- | 5.092 | 1.75 | 0.242 | 78.1 | 84.6 | 5.0 | 0.217 |
| 4-1040 | 4-2060 | 0.497 | 208.4 | -14.7 | -1.19 | 1.291 | 68.6 | 0.718 | 2.969 | 51.9 | 185.5 | --- | 5.100 | 1.80 | 0.245 | 76.4 | 84.3 | 5.0 | 0.218 |
| 4-1040 | 4-2080 | 0.490 | 209.2 | -15.3 | -1.27 | 1.291 | 69.0 | 0.716 | 2.978 | 50.9 | 186.2 | --- | 5.111 | 1.86 | 0.248 | 74.9 | 84.0 | 5.1 | 0.219 |
| 4-1040 | 4-2100 | 0.484 | 209.9 | -15.8 | -1.35 | 1.292 | 69.5 | 0.715 | 2.987 | 49.8 | 186.9 | --- | 5.123 | 1.92 | 0.251 | 73.4 | 83.9 | 5.1 | 0.220 |
| 4-1040 | 4-2120 | 0.477 | 210.7 | -16.4 | -1.44 | 1.292 | 70.0 | 0.714 | 2.996 | 48.7 | 187.6 | --- | 5.136 | 1.98 | 0.254 | 72.0 | 83.9 | 5.2 | 0.222 |
| 4-1040 | 4-2140 | 0.470 | 211.6 | -17.0 | -1.54 | 1.293 | 70.4 | 0.713 | 3.006 | 47.6 | 188.3 | --- | 5.150 | 2.06 | 0.257 | 70.7 | 83.9 | 5.3 | 0.223 |
| 4-1040 | 4-2160 | 0.464 | 212.4 | -17.7 | -1.65 | 1.293 | 70.9 | 0.712 | 3.017 | 46.5 | 189.0 | --- | 5.165 | 2.14 | 0.260 | 69.5 | 84.0 | 5.4 | 0.225 |
| 4-1040 | 4-2180 | 0.457 | 213.3 | -18.4 | -1.76 | 1.293 | 71.4 | 0.711 | 3.028 | 45.4 | 189.6 | --- | 5.182 | 2.23 | 0.263 | 68.4 | 84.2 | 5.5 | 0.227 |
| 4-1040 | 4-2200 | 0.450 | 214.2 | -19.2 | -1.89 | 1.294 | 71.8 | 0.710 | 3.040 | 44.2 | 190.2 | --- | 5.199 | 2.34 | 0.266 | 67.3 | 84.5 | 5.6 | 0.229 |
| 4-1040 | 4-2220 | 0.444 | 215.1 | -20.0 | -2.02 | 1.294 | 72.3 | 0.709 | 3.052 | 43.0 | 190.8 | --- | 5.218 | 2.45 | 0.269 | 66.3 | 84.8 | 5.7 | 0.230 |
| 4-1040 | 4-2240 | 0.437 | 216.1 | -20.8 | -2.18 | 1.295 | 72.8 | 0.709 | 3.065 | 41.8 | 191.4 | --- | 5.237 | 2.58 | 0.272 | 65.3 | 85.2 | 5.8 | 0.233 |
| 4-1040 | 4-2260 | 0.431 | 217.1 | -21.8 | -2.35 | 1.295 | 73.3 | 0.708 | 3.078 | 40.6 | 192.0 | --- | 5.256 | 2.73 | 0.275 | 64.4 | 85.7 | 5.9 | 0.235 |
| 4-1040 | 4-2280 | 0.424 | 218.1 | -22.8 | -2.54 | 1.296 | 73.8 | 0.707 | 3.091 | 39.4 | 192.6 | --- | 5.277 | 2.90 | 0.278 | 63.5 | 86.2 | 6.1 | 0.237 |
| 4-1040 | 4-2300 | 0.418 | 219.1 | -24.0 | -2.75 | 1.297 | 74.3 | 0.707 | 3.104 | 38.1 | 193.1 | --- | 5.298 | 3.09 | 0.281 | 62.7 | 86.8 | 6.3 | 0.239 |
| 4-1040 | 4-2320 | 0.412 | 220.1 | -25.2 | -3.00 | 1.297 | 74.9 | 0.706 | 3.118 | 36.8 | 193.7 | --- | 5.320 | 3.32 | 0.284 | 61.9 | 87.5 | 6.5 | 0.241 |
| 4-1040 | 4-2340 | 0.407 | 221.2 | -26.6 | -3.29 | 1.298 | 75.4 | 0.706 | 3.132 | 35.6 | 194.2 | --- | 5.343 | 3.59 | 0.287 | 61.2 | 88.2 | 6.8 | 0.244 |
| 4-1040 | 4-2360 | 0.401 | 222.2 | -28.2 | -3.63 | 1.298 | 75.9 | 0.705 | 3.146 | 34.3 | 194.8 | --- | 5.365 | 3.90 | 0.290 | 60.5 | 88.9 | 7.1 | 0.246 |
| 4-1040 | 4-2380 | 0.397 | 223.3 | -30.1 | -4.04 | 1.299 | 76.4 | 0.705 | 3.160 | 33.0 | 195.3 | --- | 5.389 | 4.29 | 0.293 | 59.9 | 89.7 | 7.4 | 0.249 |
| 4-1040 | 4-2400 | 0.393 | 224.2 | -32.2 | -4.53 | 1.299 | 77.0 | 0.705 | 3.175 | 31.7 | 195.8 | --- | 5.413 | 4.77 | 0.296 | 59.2 | 90.6 | 7.9 | 0.251 |
| 4-1040 | 4-2420 | 0.390 | 225.1 | -34.8 | -5.15 | 1.300 | 77.5 | 0.705 | 3.190 | 30.3 | 196.2 | --- | 5.438 | 5.37 | 0.299 | 58.6 | 91.5 | 8.5 | 0.254 |
| 4-1040 | 4-2440 | 0.388 | 225.7 | -38.0 | -5.96 | 1.300 | 78.1 | 0.705 | 3.205 | 29.0 | 196.7 | --- | 5.462 | 6.15 | 0.302 | 58.1 | 92.5 | 9.2 | 0.257 |
| 4-1040 | 4-2460 | 0.390 | 225.9 | -41.9 | -7.03 | 1.301 | 78.6 | 0.705 | 3.220 | 27.6 | 197.2 | --- | 5.488 | 7.20 | 0.304 | 57.5 | 93.5 | 10.2 | 0.260 |
| 4-1040 | 4-2480 | 0.396 | 225.3 | -47.1 | -8.56 | 1.302 | 79.2 | 0.705 | 3.235 | 26.3 | 197.6 | --- | 5.514 | 8.70 | 0.307 | 57.0 | 94.6 | 11.5 | 0.264 |
| 4-1040 | 4-2500 | 0.413 | 222.6 | -54.1 | -10.88 | 1.302 | 79.7 | 0.705 | 3.250 | 24.9 | 198.1 | --- | 5.540 | 11.00 | 0.310 | 56.5 | 95.9 | 13.6 | 0.270 |
| 4-1040 | 4-2520 | 0.455 | 213.7 | -63.5 | -14.83 | 1.303 | 80.3 | 0.705 | 3.265 | 23.6 | 198.5 | --- | 5.567 | 14.94 | 0.312 | 56.0 | 97.6 | 16.9 | 0.279 |
| 4-1040 | 4-2540 | 0.568 | 176.7 | -73.1 | -22.98 | 1.303 | 80.8 | 0.705 | 3.281 | 22.3 | 198.9 | --- | 5.594 | 23.07 | 0.315 | 55.5 | 100.3 | 22.8 | 0.300 |
| 4-1040 | 4-2560 | 0.960 | 113.2 | -59.0 | -46.54 | 1.304 | 81.3 | 0.706 | 3.296 | 21.1 | 199.3 | --- | 5.622 | 46.61 | 0.317 | 55.1 | 108.3 | 32.4 | 0.383 |
| 4-1040 | 4-2580 | 1.273 | 197.0 | 79.8 | 65.39 | 1.304 | 82.4 | 0.705 | 3.312 | 18.3 | 199.7 | --- | 5.646 | -65.35 | 0.319 | 54.7 | 113.9 | -28.1 | 0.461 |
| 4-1040 | 4-2600 | 0.645 | 252.0 | 50.7 | 28.25 | 1.305 | 82.8 | 0.706 | 3.328 | 17.4 | 200.1 | --- | 5.675 | -28.23 | 0.322 | 54.3 | 104.5 | -19.7 | 0.321 |
| 4-1040 | 4-2620 | 0.468 | 255.4 | 31.9 | 17.03 | 1.305 | 83.4 | 0.706 | 3.343 | 16.0 | 200.5 | --- | 5.704 | -17.03 | 0.324 | 53.9 | 103.4 | -12.1 | 0.294 |
| 4-1040 | 4-2640 | 0.401 | 257.2 | 20.0 | 12.08 | 1.306 | 83.9 | 0.707 | 3.359 | 14.6 | 200.9 | --- | 5.733 | -12.10 | 0.326 | 53.5 | 103.8 | -8.0 | 0.287 |
| 4-1050 | 4-1410 | 0.806 | 206.6 | -10.5 | 0.33 | 1.404 | 54.9 | 0.983 | 40.054 | 70.9 | 139.6 | --- | --- | 1.39 | 0.596 | 158.5 | 109.5 | 3.4 | 0.613 |
| 4-1050 | 4-1430 | 0.792 | 205.7 | -10.2 | 0.29 | 1.386 | 54.9 | 0.949 | 13.058 | 72.4 | 142.7 | --- | --- | 1.37 | 0.551 | 156.9 | 109.2 | 3.4 | 0.571 |
| 4-1050 | 4-1450 | 0.780 | 205.0 | -10.0 | 0.25 | 1.370 | 54.9 | 0.922 | 8.364 | 73.6 | 145.5 | --- | --- | 1.36 | 0.511 | 155.3 | 108.8 | 3.4 | 0.532 |
| 4-1050 | 4-1470 | 0.770 | 204.4 | -9.8 | 0.21 | 1.357 | 55.0 | 0.898 | 6.430 | 74.7 | 148.2 | --- | --- | 1.35 | 0.475 | 153.5 | 108.4 | 3.5 | 0.498 |
| 4-1050 | 4-1490 | 0.761 | 203.9 | -9.7 | 0.17 | 1.346 | 55.1 | 0.879 | 5.384 | 75.5 | 150.7 | --- | --- | 1.34 | 0.443 | 151.5 | 107.9 | 3.5 | 0.467 |
| 4-1050 | 4-1510 | 0.753 | 203.5 | -9.6 | 0.13 | 1.336 | 55.2 | 0.863 | 4.734 | 76.2 | 153.0 | --- | --- | 1.33 | 0.414 | 149.5 | 107.3 | 3.6 | 0.440 |
| 4-1050 | 4-1530 | 0.745 | 203.2 | -9.5 | 0.09 | 1.328 | 55.3 | 0.849 | 4.295 | 76.7 | 155.2 | --- | --- | 1.32 | 0.387 | 147.3 | 106.6 | 3.6 | 0.415 |
| 4-1050 | 4-1550 | 0.738 | 202.9 | -9.5 | 0.05 | 1.321 | 55.5 | 0.838 | 3.982 | 77.1 | 157.2 | --- | --- | 1.31 | 0.364 | 144.9 | 105.9 | 3.7 | 0.392 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1050 | 4-1570 | 0.731 | 202.8 | -9.5 | 0.01 | 1.316 | 55.7 | 0.827 | 3.750 | 77.3 | 159.1 | --- | --- | 1.31 | 0.342 | 142.4 | 105.1 | 3.7 | 0.371 |
| 4-1050 | 4-1590 | 0.724 | 202.7 | -9.5 | -0.02 | 1.311 | 55.9 | 0.818 | 3.573 | 77.4 | 160.9 | --- | --- | 1.30 | 0.323 | 139.8 | 104.2 | 3.7 | 0.353 |
| 4-1050 | 4-1610 | 0.718 | 202.7 | -9.6 | -0.06 | 1.306 | 56.1 | 0.811 | 3.435 | 77.5 | 162.5 | --- | --- | 1.30 | 0.306 | 137.0 | 103.3 | 3.8 | 0.336 |
| 4-1050 | 4-1630 | 0.711 | 202.7 | -9.7 | -0.10 | 1.303 | 56.3 | 0.804 | 3.325 | 77.4 | 164.1 | --- | --- | 1.30 | 0.291 | 134.1 | 102.3 | 3.8 | 0.321 |
| 4-1050 | 4-1650 | 0.705 | 202.8 | -9.8 | -0.14 | 1.299 | 56.5 | 0.798 | 3.238 | 77.2 | 165.6 | --- | --- | 1.29 | 0.278 | 131.1 | 101.3 | 3.9 | 0.308 |
| 4-1050 | 4-1670 | 0.699 | 202.9 | -9.9 | -0.18 | 1.297 | 56.8 | 0.792 | 3.168 | 76.9 | 167.0 | --- | --- | 1.29 | 0.266 | 127.9 | 100.2 | 3.9 | 0.296 |
| 4-1050 | 4-1690 | 0.692 | 203.1 | -10.0 | -0.21 | 1.295 | 57.1 | 0.787 | 3.110 | 76.6 | 168.4 | --- | --- | 1.29 | 0.256 | 124.7 | 99.1 | 4.0 | 0.285 |
| 4-1050 | 4-1710 | 0.686 | 203.3 | -10.1 | -0.25 | 1.293 | 57.4 | 0.782 | 3.064 | 76.2 | 169.6 | --- | --- | 1.30 | 0.248 | 121.4 | 97.9 | 4.0 | 0.275 |
| 4-1050 | 4-1730 | 0.680 | 203.5 | -10.3 | -0.29 | 1.291 | 57.7 | 0.778 | 3.026 | 75.7 | 170.8 | --- | --- | 1.30 | 0.240 | 118.1 | 96.7 | 4.1 | 0.267 |
| 4-1050 | 4-1750 | 0.673 | 203.8 | -10.5 | -0.33 | 1.290 | 58.0 | 0.774 | 2.996 | 75.2 | 172.0 | --- | --- | 1.30 | 0.235 | 114.8 | 95.5 | 4.1 | 0.259 |
| 4-1050 | 4-1770 | 0.667 | 204.1 | -10.7 | -0.37 | 1.289 | 58.3 | 0.771 | 2.971 | 74.6 | 173.1 | --- | --- | 1.31 | 0.230 | 111.4 | 94.4 | 4.2 | 0.253 |
| 4-1050 | 4-1790 | 0.661 | 204.4 | -10.9 | -0.41 | 1.288 | 58.7 | 0.767 | 2.951 | 73.9 | 174.2 | --- | --- | 1.31 | 0.226 | 108.2 | 93.2 | 4.2 | 0.247 |
| 4-1050 | 4-1810 | 0.654 | 204.7 | -11.1 | -0.45 | 1.287 | 59.0 | 0.764 | 2.936 | 73.3 | 175.2 | --- | --- | 1.32 | 0.223 | 104.9 | 92.1 | 4.2 | 0.242 |
| 4-1050 | 4-1830 | 0.647 | 205.1 | -11.3 | -0.49 | 1.287 | 59.4 | 0.761 | 2.925 | 72.5 | 176.2 | --- | --- | 1.33 | 0.222 | 101.8 | 91.0 | 4.3 | 0.238 |
| 4-1050 | 4-1850 | 0.641 | 205.5 | -11.6 | -0.53 | 1.286 | 59.8 | 0.758 | 2.916 | 71.8 | 177.2 | --- | --- | 1.34 | 0.220 | 98.8 | 90.0 | 4.3 | 0.234 |
| 4-1050 | 4-1870 | 0.634 | 206.0 | -11.8 | -0.57 | 1.286 | 60.2 | 0.756 | 2.911 | 71.0 | 178.1 | --- | --- | 1.35 | 0.220 | 95.9 | 89.0 | 4.3 | 0.232 |
| 4-1050 | 4-1890 | 0.627 | 206.4 | -12.1 | -0.62 | 1.286 | 60.6 | 0.753 | 2.907 | 70.1 | 179.0 | --- | --- | 1.37 | 0.220 | 93.1 | 88.0 | 4.4 | 0.229 |
| 4-1050 | 4-1910 | 0.620 | 206.9 | -12.4 | -0.66 | 1.286 | 61.0 | 0.751 | 2.906 | 69.3 | 179.8 | --- | --- | 1.38 | 0.221 | 90.4 | 87.2 | 4.4 | 0.228 |
| 4-1050 | 4-1930 | 0.613 | 207.4 | -12.7 | -0.70 | 1.286 | 61.4 | 0.749 | 2.907 | 68.4 | 180.7 | --- | 5.083 | 1.40 | 0.223 | 87.9 | 86.4 | 4.4 | 0.226 |
| 4-1050 | 4-1950 | 0.606 | 207.9 | -13.0 | -0.75 | 1.286 | 61.8 | 0.746 | 2.909 | 67.4 | 181.5 | --- | 5.080 | 1.42 | 0.224 | 85.6 | 85.7 | 4.5 | 0.225 |
| 4-1050 | 4-1970 | 0.599 | 208.5 | -13.3 | -0.80 | 1.286 | 62.2 | 0.744 | 2.912 | 66.5 | 182.3 | --- | 5.080 | 1.44 | 0.226 | 83.3 | 85.1 | 4.5 | 0.225 |
| 4-1050 | 4-1990 | 0.592 | 209.1 | -13.6 | -0.85 | 1.286 | 62.7 | 0.742 | 2.917 | 65.5 | 183.1 | --- | 5.083 | 1.46 | 0.229 | 81.3 | 84.6 | 4.5 | 0.225 |
| 4-1050 | 4-2010 | 0.585 | 209.6 | -14.0 | -0.90 | 1.287 | 63.1 | 0.740 | 2.923 | 64.5 | 183.8 | --- | 5.088 | 1.48 | 0.231 | 79.3 | 84.2 | 4.6 | 0.225 |
| 4-1050 | 4-2030 | 0.577 | 210.3 | -14.4 | -0.95 | 1.287 | 63.6 | 0.739 | 2.930 | 63.5 | 184.6 | --- | 5.095 | 1.51 | 0.234 | 77.4 | 83.8 | 4.6 | 0.225 |
| 4-1050 | 4-2050 | 0.570 | 210.9 | -14.7 | -1.01 | 1.287 | 64.0 | 0.737 | 2.938 | 62.4 | 185.3 | --- | 5.104 | 1.54 | 0.237 | 75.7 | 83.6 | 4.6 | 0.226 |
| 4-1050 | 4-2070 | 0.563 | 211.6 | -15.1 | -1.07 | 1.288 | 64.5 | 0.735 | 2.947 | 61.4 | 186.0 | --- | 5.114 | 1.57 | 0.240 | 74.1 | 83.4 | 4.6 | 0.227 |
| 4-1050 | 4-2090 | 0.555 | 212.2 | -15.5 | -1.13 | 1.288 | 65.0 | 0.734 | 2.957 | 60.3 | 186.6 | --- | 5.126 | 1.61 | 0.243 | 72.6 | 83.3 | 4.7 | 0.228 |
| 4-1050 | 4-2110 | 0.548 | 213.0 | -16.0 | -1.19 | 1.289 | 65.4 | 0.732 | 2.967 | 59.2 | 187.3 | --- | 5.139 | 1.65 | 0.247 | 71.2 | 83.3 | 4.7 | 0.229 |
| 4-1050 | 4-2130 | 0.540 | 213.7 | -16.4 | -1.26 | 1.289 | 65.9 | 0.731 | 2.978 | 58.0 | 188.0 | --- | 5.153 | 1.69 | 0.250 | 69.9 | 83.4 | 4.8 | 0.230 |
| 4-1050 | 4-2150 | 0.533 | 214.4 | -16.9 | -1.33 | 1.290 | 66.4 | 0.729 | 2.989 | 56.9 | 188.6 | --- | 5.169 | 1.73 | 0.253 | 68.6 | 83.5 | 4.8 | 0.232 |
| 4-1050 | 4-2170 | 0.525 | 215.2 | -17.4 | -1.40 | 1.290 | 66.9 | 0.728 | 3.001 | 55.7 | 189.2 | --- | 5.185 | 1.78 | 0.257 | 67.5 | 83.7 | 4.9 | 0.233 |
| 4-1050 | 4-2190 | 0.518 | 216.0 | -17.9 | -1.48 | 1.291 | 67.4 | 0.726 | 3.013 | 54.6 | 189.8 | --- | 5.202 | 1.84 | 0.260 | 66.4 | 84.0 | 4.9 | 0.235 |
| 4-1050 | 4-2210 | 0.510 | 216.9 | -18.5 | -1.57 | 1.291 | 67.9 | 0.725 | 3.026 | 53.4 | 190.4 | --- | 5.220 | 1.90 | 0.263 | 65.4 | 84.4 | 5.0 | 0.237 |
| 4-1050 | 4-2230 | 0.502 | 217.7 | -19.0 | -1.66 | 1.292 | 68.4 | 0.724 | 3.039 | 52.1 | 191.0 | --- | 5.239 | 1.97 | 0.267 | 64.4 | 84.8 | 5.0 | 0.239 |
| 4-1050 | 4-2250 | 0.495 | 218.6 | -19.6 | -1.75 | 1.292 | 68.9 | 0.723 | 3.053 | 50.9 | 191.6 | --- | 5.259 | 2.04 | 0.270 | 63.5 | 85.3 | 5.1 | 0.240 |
| 4-1050 | 4-2270 | 0.487 | 219.5 | -20.3 | -1.86 | 1.293 | 69.4 | 0.722 | 3.066 | 49.7 | 192.2 | --- | 5.279 | 2.12 | 0.273 | 62.7 | 85.8 | 5.2 | 0.242 |
| 4-1050 | 4-2290 | 0.480 | 220.5 | -21.0 | -1.97 | 1.293 | 70.0 | 0.721 | 3.080 | 48.4 | 192.7 | --- | 5.300 | 2.22 | 0.277 | 61.9 | 86.4 | 5.3 | 0.244 |
| 4-1050 | 4-2310 | 0.472 | 221.5 | -21.7 | -2.10 | 1.294 | 70.5 | 0.720 | 3.095 | 47.2 | 193.2 | --- | 5.322 | 2.32 | 0.280 | 61.1 | 87.0 | 5.4 | 0.246 |
| 4-1050 | 4-2330 | 0.465 | 222.5 | -22.5 | -2.24 | 1.295 | 71.0 | 0.719 | 3.109 | 45.9 | 193.8 | --- | 5.344 | 2.44 | 0.283 | 60.4 | 87.7 | 5.5 | 0.248 |
| 4-1050 | 4-2350 | 0.458 | 223.5 | -23.3 | -2.39 | 1.295 | 71.6 | 0.718 | 3.124 | 44.6 | 194.3 | --- | 5.367 | 2.57 | 0.286 | 59.8 | 88.5 | 5.6 | 0.251 |
| 4-1050 | 4-2370 | 0.451 | 224.6 | -24.3 | -2.56 | 1.296 | 72.1 | 0.717 | 3.139 | 43.3 | 194.8 | --- | 5.390 | 2.71 | 0.289 | 59.1 | 89.3 | 5.7 | 0.253 |
| 4-1050 | 4-2390 | 0.444 | 225.7 | -25.3 | -2.75 | 1.296 | 72.6 | 0.716 | 3.154 | 41.9 | 195.3 | --- | 5.413 | 2.89 | 0.292 | 58.5 | 90.1 | 5.9 | 0.255 |
| 4-1050 | 4-2410 | 0.437 | 226.8 | -26.4 | -2.97 | 1.297 | 73.2 | 0.716 | 3.169 | 40.6 | 195.8 | --- | 5.437 | 3.08 | 0.295 | 58.0 | 91.0 | 6.1 | 0.257 |
| 4-1050 | 4-2430 | 0.430 | 227.9 | -27.6 | -3.22 | 1.297 | 73.8 | 0.715 | 3.184 | 39.3 | 196.3 | --- | 5.462 | 3.31 | 0.298 | 57.4 | 91.9 | 6.3 | 0.259 |
| 4-1050 | 4-2450 | 0.424 | 229.1 | -28.9 | -3.51 | 1.298 | 74.3 | 0.715 | 3.200 | 37.9 | 196.7 | --- | 5.487 | 3.58 | 0.301 | 56.9 | 92.9 | 6.5 | 0.261 |
| 4-1050 | 4-2470 | 0.418 | 230.3 | -30.5 | -3.86 | 1.299 | 74.9 | 0.714 | 3.216 | 36.6 | 197.2 | --- | 5.512 | 3.90 | 0.304 | 56.4 | 93.9 | 6.8 | 0.264 |
| 4-1050 | 4-2490 | 0.412 | 231.4 | -32.3 | -4.27 | 1.299 | 75.4 | 0.714 | 3.231 | 35.2 | 197.6 | --- | 5.538 | 4.30 | 0.307 | 55.9 | 94.9 | 7.2 | 0.266 |
| 4-1050 | 4-2510 | 0.408 | 232.5 | -34.4 | -4.78 | 1.300 | 76.0 | 0.713 | 3.247 | 33.8 | 198.1 | --- | 5.564 | 4.78 | 0.309 | 55.5 | 96.0 | 7.6 | 0.268 |
| 4-1050 | 4-2530 | 0.404 | 233.5 | -36.9 | -5.41 | 1.300 | 76.6 | 0.713 | 3.263 | 32.4 | 198.5 | --- | 5.590 | 5.39 | 0.312 | 55.1 | 97.1 | 8.1 | 0.271 |
| 4-1050 | 4-2550 | 0.402 | 234.4 | -40.0 | -6.23 | 1.301 | 77.2 | 0.713 | 3.279 | 31.0 | 198.9 | --- | 5.617 | 6.19 | 0.314 | 54.7 | 98.2 | 8.8 | 0.274 |
| 4-1050 | 4-2570 | 0.404 | 234.8 | -44.0 | -7.34 | 1.302 | 77.7 | 0.713 | 3.295 | 29.6 | 199.3 | --- | 5.644 | 7.28 | 0.317 | 54.3 | 99.5 | 9.8 | 0.277 |
| 4-1050 | 4-2590 | 0.410 | 234.5 | -49.2 | -8.92 | 1.302 | 78.3 | 0.713 | 3.311 | 28.2 | 199.7 | --- | 5.671 | 8.85 | 0.319 | 53.9 | 100.8 | 11.1 | 0.280 |
| 4-1050 | 4-2610 | 0.428 | 232.3 | -56.3 | -11.36 | 1.303 | 78.9 | 0.712 | 3.328 | 26.7 | 200.1 | --- | 5.699 | 11.26 | 0.322 | 53.5 | 102.3 | 13.2 | 0.285 |
| 4-1050 | 4-2630 | 0.472 | 223.2 | -66.2 | -15.60 | 1.303 | 79.5 | 0.713 | 3.344 | 25.3 | 200.5 | --- | 5.727 | 15.48 | 0.324 | 53.1 | 104.1 | 16.6 | 0.294 |
| 4-1050 | 4-2650 | 0.598 | 177.4 | -75.7 | -24.60 | 1.304 | 80.1 | 0.713 | 3.360 | 24.0 | 200.8 | --- | 5.755 | 24.46 | 0.326 | 52.8 | 107.3 | 22.7 | 0.317 |
| 4-1060 | 4-1400 | 0.931 | 208.8 | -11.3 | 0.39 | 1.412 | 48.0 | 1.00 | 128.742 | 84.0 | 142.0 | --- | --- | 1.47 | 0.618 | 161.1 | 108.2 | 3.4 | 0.648 |
| 4-1060 | 4-1420 | 0.913 | 208.1 | -11.1 | 0.34 | 1.391 | 48.1 | 0.96 | 917.805 | 85.4 | 145.0 | --- | --- | 1.44 | 0.569 | 159.7 | 107.8 | 3.4 | 0.602 |
| 4-1060 | 4-1440 | 0.898 | 207.5 | -11.0 | 0.29 | 1.374 | 48.3 | 0.943 | 9.568 | 86.5 | 147.8 | --- | --- | 1.42 | 0.525 | 158.1 | 107.4 | 3.4 | 0.561 |
| 4-1060 | 4-1460 | 0.884 | 207.0 | -10.8 | 0.25 | 1.359 | 48.5 | 0.921 | 6.912 | 87.4 | 150.4 | --- | --- | 1.40 | 0.486 | 156.4 | 106.9 | 3.5 | 0.524 |
| 4-1060 | 4-1480 | 0.872 | 206.6 | -10.8 | 0.20 | 1.347 | 48.7 | 0.903 | 5.611 | 88.2 | 152.7 | --- | --- | 1.38 | 0.451 | 154.5 | 106.3 | 3.5 | 0.491 |
| 4-1060 | 4-1500 | 0.861 | 206.4 | -10.7 | 0.16 | 1.336 | 49.0 | 0.888 | 4.846 | 88.7 | 154.9 | --- | --- | 1.36 | 0.419 | 152.5 | 105.7 | 3.5 | 0.461 |
| 4-1060 | 4-1520 | 0.851 | 206.2 | -10.7 | 0.12 | 1.327 | 49.2 | 0.875 | 4.347 | 89.1 | 157.0 | --- | --- | 1.34 | 0.391 | 150.4 | 105.0 | 3.6 | 0.435 |
| 4-1060 | 4-1540 | 0.842 | 206.0 | -10.7 | 0.07 | 1.320 | 49.4 | 0.864 | 4.000 | 89.4 | 158.8 | --- | --- | 1.33 | 0.365 | 148.1 | 104.2 | 3.6 | 0.411 |
| 4-1060 | 4-1560 | 0.833 | 205.9 | -10.7 | 0.03 | 1.313 | 49.7 | 0.854 | 3.747 | 89.5 | 160.6 | --- | --- | 1.32 | 0.342 | 145.6 | 103.4 | 3.6 | 0.389 |
| 4-1060 | 4-1580 | 0.825 | 205.9 | -10.7 | -0.01 | 1.308 | 50.0 | 0.846 | 3.556 | 89.5 | 162.3 | --- | --- | 1.30 | 0.321 | 143.0 | 102.5 | 3.7 | 0.370 |
| 4-1060 | 4-1600 | 0.816 | 206.0 | -10.8 | -0.04 | 1.303 | 50.3 | 0.838 | 3.409 | 89.4 | 163.8 | --- | --- | 1.29 | 0.302 | 140.2 | 101.6 | 3.7 | 0.352 |
| 4-1060 | 4-1620 | 0.809 | 206.1 | -10.9 | -0.08 | 1.299 | 50.6 | 0.832 | 3.294 | 89.1 | 165.3 | --- | --- | 1.28 | 0.286 | 137.2 | 100.6 | 3.8 | 0.337 |
| 4-1060 | 4-1640 | 0.801 | 206.2 | -11.0 | -0.12 | 1.296 | 50.9 | 0.825 | 3.203 | 88.9 | 166.6 | --- | --- | 1.27 | 0.271 | 134.1 | 99.6 | 3.8 | 0.322 |
| 4-1060 | 4-1660 | 0.793 | 206.3 | -11.1 | -0.16 | 1.293 | 51.3 | 0.820 | 3.130 | 88.5 | 167.9 | --- | --- | 1.27 | 0.259 | 130.8 | 98.5 | 3.8 | 0.310 |
| 4-1060 | 4-1680 | 0.786 | 206.5 | -11.2 | -0.20 | 1.291 | 51.6 | 0.815 | 3.071 | 88.0 | 169.2 | --- | --- | 1.26 | 0.248 | 127.4 | 97.4 | 3.9 | 0.299 |
| 4-1060 | 4-1700 | 0.778 | 206.8 | -11.4 | -0.23 | 1.289 | 52.0 | 0.810 | 3.023 | 87.5 | 170.4 | --- | --- | 1.26 | 0.238 | 124.0 | 96.2 | 3.9 | 0.289 |
| 4-1060 | 4-1720 | 0.771 | 207.0 | -11.5 | -0.27 | 1.287 | 52.3 | 0.806 | 2.985 | 87.0 | 171.5 | --- | --- | 1.25 | 0.230 | 120.4 | 95.1 | 3.9 | 0.280 |
| 4-1060 | 4-1740 | 0.763 | 207.3 | -11.7 | -0.31 | 1.286 | 52.7 | 0.802 | 2.954 | 86.4 | 172.6 | --- | --- | 1.25 | 0.224 | 116.8 | 93.9 | 4.0 | 0.272 |
| 4-1060 | 4-1760 | 0.756 | 207.6 | -11.9 | -0.35 | 1.285 | 53.1 | 0.798 | 2.929 | 85.7 | 173.6 | --- | --- | 1.25 | 0.218 | 113.2 | 92.8 | 4.0 | 0.265 |
| 4-1060 | 4-1780 | 0.748 | 208.0 | -12.1 | -0.38 | 1.284 | 53.5 | 0.794 | 2.910 | 85.0 | 174.6 | --- | --- | 1.25 | 0.214 | 109.7 | 91.7 | 4.0 | 0.259 |
| 4-1060 | 4-1800 | 0.741 | 208.3 | -12.3 | -0.42 | 1.283 | 53.9 | 0.791 | 2.895 | 84.2 | 175.6 | --- | --- | 1.25 | 0.211 | 106.2 | 90.6 | 4.1 | 0.254 |
| 4-1060 | 4-1820 | 0.733 | 208.7 | -12.5 | -0.46 | 1.283 | 54.3 | 0.788 | 2.883 | 83.5 | 176.5 | --- | --- | 1.25 | 0.210 | 102.8 | 89.6 | 4.1 | 0.250 |
| 4-1060 | 4-1840 | 0.726 | 209.1 | -12.7 | -0.49 | 1.282 | 54.7 | 0.785 | 2.875 | 82.6 | 177.4 | --- | --- | 1.25 | 0.208 | 99.5 | 88.6 | 4.1 | 0.246 |
| 4-1060 | 4-1860 | 0.718 | 209.6 | -12.9 | -0.53 | 1.282 | 55.2 | 0.782 | 2.870 | 81.8 | 178.2 | --- | --- | 1.25 | 0.208 | 96.3 | 87.7 | 4.1 | 0.243 |
| 4-1060 | 4-1880 | 0.711 | 210.0 | -13.1 | -0.57 | 1.282 | 55.6 | 0.779 | 2.867 | 80.9 | 179.1 | --- | --- | 1.26 | 0.209 | 93.3 | 86.8 | 4.2 | 0.241 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1060 | 4-1900 | 0.703 | 210.5 | -13.4 | -0.61 | 1.282 | 56.1 | 0.776 | 2.867 | 80.0 | 179.9 | --- | --- | 1.26 | 0.210 | 90.4 | 86.0 | 4.2 | 0.239 |
| 4-1060 | 4-1920 | 0.695 | 211.0 | -13.6 | -0.65 | 1.282 | 56.5 | 0.773 | 2.868 | 79.0 | 180.7 | --- | 5.086 | 1.27 | 0.211 | 87.7 | 85.3 | 4.2 | 0.237 |
| 4-1060 | 4-1940 | 0.688 | 211.5 | -13.9 | -0.69 | 1.282 | 57.0 | 0.771 | 2.871 | 78.0 | 181.4 | --- | 5.084 | 1.28 | 0.213 | 85.2 | 84.7 | 4.2 | 0.236 |
| 4-1060 | 4-1960 | 0.680 | 212.0 | -14.2 | -0.73 | 1.282 | 57.4 | 0.768 | 2.875 | 77.1 | 182.2 | --- | 5.084 | 1.29 | 0.216 | 82.8 | 84.2 | 4.2 | 0.236 |
| 4-1060 | 4-1980 | 0.672 | 212.5 | -14.4 | -0.77 | 1.282 | 57.9 | 0.766 | 2.880 | 76.0 | 182.9 | --- | 5.087 | 1.30 | 0.218 | 80.5 | 83.7 | 4.2 | 0.235 |
| 4-1060 | 4-2000 | 0.664 | 213.1 | -14.7 | -0.81 | 1.283 | 58.4 | 0.764 | 2.887 | 75.0 | 183.6 | --- | 5.092 | 1.31 | 0.221 | 78.5 | 83.3 | 4.3 | 0.235 |
| 4-1060 | 4-2020 | 0.656 | 213.7 | -15.0 | -0.85 | 1.283 | 58.8 | 0.762 | 2.895 | 73.9 | 184.3 | --- | 5.099 | 1.33 | 0.224 | 76.5 | 83.0 | 4.3 | 0.235 |
| 4-1060 | 4-2040 | 0.648 | 214.2 | -15.3 | -0.90 | 1.284 | 59.3 | 0.759 | 2.903 | 72.9 | 185.0 | --- | 5.108 | 1.34 | 0.228 | 74.7 | 82.8 | 4.3 | 0.236 |
| 4-1060 | 4-2060 | 0.640 | 214.9 | -15.7 | -0.94 | 1.284 | 59.8 | 0.757 | 2.913 | 71.8 | 185.7 | --- | 5.119 | 1.36 | 0.231 | 73.1 | 82.7 | 4.3 | 0.236 |
| 4-1060 | 4-2080 | 0.632 | 215.5 | -16.0 | -0.99 | 1.284 | 60.3 | 0.755 | 2.923 | 70.6 | 186.3 | --- | 5.130 | 1.38 | 0.235 | 71.5 | 82.6 | 4.3 | 0.237 |
| 4-1060 | 4-2100 | 0.624 | 216.1 | -16.3 | -1.04 | 1.285 | 60.8 | 0.753 | 2.934 | 69.5 | 187.0 | --- | 5.144 | 1.40 | 0.238 | 70.1 | 82.7 | 4.4 | 0.238 |
| 4-1060 | 4-2120 | 0.615 | 216.8 | -16.7 | -1.09 | 1.285 | 61.3 | 0.751 | 2.945 | 68.4 | 187.6 | --- | 5.158 | 1.43 | 0.242 | 68.7 | 82.8 | 4.4 | 0.239 |
| 4-1060 | 4-2140 | 0.607 | 217.5 | -17.0 | -1.14 | 1.286 | 61.8 | 0.750 | 2.957 | 67.2 | 188.2 | --- | 5.173 | 1.45 | 0.246 | 67.5 | 82.9 | 4.4 | 0.241 |
| 4-1060 | 4-2160 | 0.599 | 218.2 | -17.4 | -1.19 | 1.286 | 62.3 | 0.748 | 2.970 | 66.0 | 188.8 | --- | 5.190 | 1.48 | 0.249 | 66.3 | 83.2 | 4.4 | 0.242 |
| 4-1060 | 4-2180 | 0.591 | 218.9 | -17.8 | -1.25 | 1.287 | 62.9 | 0.746 | 2.982 | 64.8 | 189.4 | --- | 5.207 | 1.51 | 0.253 | 65.2 | 83.5 | 4.5 | 0.243 |
| 4-1060 | 4-2200 | 0.582 | 219.7 | -18.2 | -1.31 | 1.288 | 63.4 | 0.744 | 2.996 | 63.6 | 190.0 | --- | 5.225 | 1.55 | 0.257 | 64.2 | 83.9 | 4.5 | 0.245 |
| 4-1060 | 4-2220 | 0.574 | 220.5 | -18.6 | -1.37 | 1.288 | 63.9 | 0.743 | 3.009 | 62.4 | 190.6 | --- | 5.244 | 1.58 | 0.260 | 63.2 | 84.3 | 4.5 | 0.247 |
| 4-1060 | 4-2240 | 0.566 | 221.3 | -19.1 | -1.44 | 1.289 | 64.4 | 0.741 | 3.023 | 61.1 | 191.1 | --- | 5.264 | 1.63 | 0.264 | 62.3 | 84.8 | 4.6 | 0.248 |
| 4-1060 | 4-2260 | 0.557 | 222.1 | -19.5 | -1.50 | 1.289 | 65.0 | 0.739 | 3.038 | 59.9 | 191.7 | --- | 5.284 | 1.67 | 0.267 | 61.5 | 85.3 | 4.6 | 0.250 |
| 4-1060 | 4-2280 | 0.549 | 223.0 | -20.0 | -1.58 | 1.290 | 65.5 | 0.738 | 3.052 | 58.6 | 192.2 | --- | 5.305 | 1.72 | 0.271 | 60.7 | 85.9 | 4.7 | 0.252 |
| 4-1060 | 4-2300 | 0.541 | 223.8 | -20.5 | -1.65 | 1.291 | 66.1 | 0.737 | 3.067 | 57.3 | 192.7 | --- | 5.326 | 1.77 | 0.274 | 60.0 | 86.6 | 4.7 | 0.253 |
| 4-1060 | 4-2320 | 0.532 | 224.7 | -21.0 | -1.74 | 1.291 | 66.6 | 0.735 | 3.082 | 56.1 | 193.3 | --- | 5.348 | 1.83 | 0.278 | 59.3 | 87.3 | 4.8 | 0.255 |
| 4-1060 | 4-2340 | 0.524 | 225.7 | -21.6 | -1.83 | 1.292 | 67.2 | 0.734 | 3.098 | 54.8 | 193.8 | --- | 5.371 | 1.90 | 0.281 | 58.7 | 88.1 | 4.8 | 0.257 |
| 4-1060 | 4-2360 | 0.516 | 226.6 | -22.1 | -1.92 | 1.293 | 67.7 | 0.733 | 3.113 | 53.4 | 194.3 | --- | 5.394 | 1.97 | 0.285 | 58.1 | 88.8 | 4.9 | 0.259 |
| 4-1060 | 4-2380 | 0.508 | 227.6 | -22.7 | -2.02 | 1.293 | 68.3 | 0.731 | 3.129 | 52.1 | 194.8 | --- | 5.417 | 2.05 | 0.288 | 57.5 | 89.7 | 5.0 | 0.261 |
| 4-1060 | 4-2400 | 0.499 | 228.6 | -23.4 | -2.14 | 1.294 | 68.8 | 0.730 | 3.145 | 50.8 | 195.3 | --- | 5.441 | 2.14 | 0.291 | 57.0 | 90.6 | 5.1 | 0.263 |
| 4-1060 | 4-2420 | 0.491 | 229.7 | -24.1 | -2.26 | 1.294 | 69.4 | 0.729 | 3.161 | 49.4 | 195.7 | --- | 5.465 | 2.24 | 0.294 | 56.5 | 91.5 | 5.1 | 0.265 |
| 4-1060 | 4-2440 | 0.483 | 230.8 | -24.8 | -2.39 | 1.295 | 70.0 | 0.728 | 3.177 | 48.1 | 196.2 | --- | 5.490 | 2.36 | 0.297 | 56.0 | 92.4 | 5.2 | 0.267 |
| 4-1060 | 4-2460 | 0.475 | 231.9 | -25.6 | -2.54 | 1.296 | 70.5 | 0.727 | 3.193 | 46.7 | 196.7 | --- | 5.514 | 2.49 | 0.300 | 55.5 | 93.4 | 5.4 | 0.268 |
| 4-1060 | 4-2480 | 0.468 | 233.0 | -26.4 | -2.71 | 1.296 | 71.1 | 0.726 | 3.209 | 45.3 | 197.1 | --- | 5.540 | 2.63 | 0.303 | 55.1 | 94.4 | 5.5 | 0.270 |
| 4-1060 | 4-2500 | 0.460 | 234.2 | -27.4 | -2.90 | 1.297 | 71.7 | 0.725 | 3.226 | 44.0 | 197.5 | --- | 5.565 | 2.80 | 0.306 | 54.7 | 95.5 | 5.6 | 0.272 |
| 4-1060 | 4-2520 | 0.453 | 235.4 | -28.4 | -3.11 | 1.297 | 72.3 | 0.725 | 3.242 | 42.6 | 198.0 | --- | 5.591 | 2.99 | 0.309 | 54.3 | 96.5 | 5.8 | 0.274 |
| 4-1060 | 4-2540 | 0.445 | 236.7 | -29.5 | -3.36 | 1.298 | 72.9 | 0.724 | 3.259 | 41.2 | 198.4 | --- | 5.617 | 3.22 | 0.311 | 53.9 | 97.6 | 6.0 | 0.276 |
| 4-1060 | 4-2560 | 0.438 | 237.9 | -30.8 | -3.65 | 1.299 | 73.5 | 0.723 | 3.275 | 39.7 | 198.8 | --- | 5.644 | 3.49 | 0.314 | 53.5 | 98.8 | 6.2 | 0.278 |
| 4-1060 | 4-2580 | 0.432 | 239.2 | -32.3 | -3.99 | 1.299 | 74.0 | 0.723 | 3.292 | 38.3 | 199.2 | --- | 5.670 | 3.81 | 0.316 | 53.2 | 99.9 | 6.5 | 0.280 |
| 4-1060 | 4-2600 | 0.426 | 240.5 | -34.0 | -4.40 | 1.300 | 74.6 | 0.722 | 3.309 | 36.9 | 199.6 | --- | 5.697 | 4.20 | 0.319 | 52.9 | 101.1 | 6.8 | 0.282 |
| 4-1060 | 4-2620 | 0.421 | 241.8 | -36.0 | -4.90 | 1.300 | 75.2 | 0.721 | 3.325 | 35.4 | 200.0 | --- | 5.725 | 4.68 | 0.321 | 52.5 | 102.4 | 7.2 | 0.284 |
| 4-1060 | 4-2640 | 0.417 | 243.0 | -38.4 | -5.54 | 1.301 | 75.8 | 0.721 | 3.342 | 34.0 | 200.4 | --- | 5.752 | 5.29 | 0.324 | 52.2 | 103.6 | 7.7 | 0.287 |
| 4-1060 | 4-2660 | 0.414 | 244.1 | -41.4 | -6.37 | 1.302 | 76.4 | 0.721 | 3.359 | 32.5 | 200.8 | --- | 5.780 | 6.10 | 0.326 | 51.9 | 104.9 | 8.4 | 0.289 |
| 4-1070 | 4-1410 | 1.045 | 210.9 | -12.2 | 0.41 | 1.399 | 40.9 | 0.98733 | 563 | 99.0 | 148.1 | --- | --- | 1.54 | 0.592 | 162.8 | 106.2 | 3.4 | 0.639 |
| 4-1070 | 4-1430 | 1.025 | 210.5 | -12.1 | 0.35 | 1.379 | 41.3 | 0.96411 | 768 | 100.0 | 150.7 | --- | --- | 1.50 | 0.543 | 161.3 | 105.8 | 3.4 | 0.595 |
| 4-1070 | 4-1450 | 1.007 | 210.1 | -12.0 | 0.30 | 1.362 | 41.6 | 0.944 | 7.665 | 100.7 | 153.1 | --- | --- | 1.47 | 0.500 | 159.7 | 105.3 | 3.4 | 0.555 |
| 4-1070 | 4-1470 | 0.992 | 209.9 | -12.0 | 0.25 | 1.348 | 42.0 | 0.928 | 5.946 | 101.3 | 155.2 | --- | --- | 1.44 | 0.462 | 158.0 | 104.7 | 3.4 | 0.519 |
| 4-1070 | 4-1490 | 0.977 | 209.7 | -11.9 | 0.20 | 1.337 | 42.3 | 0.914 | 5.010 | 101.6 | 157.2 | --- | --- | 1.41 | 0.427 | 156.1 | 104.0 | 3.5 | 0.488 |
| 4-1070 | 4-1510 | 0.965 | 209.6 | -11.9 | 0.15 | 1.327 | 42.7 | 0.903 | 4.427 | 101.8 | 159.1 | --- | --- | 1.38 | 0.396 | 154.0 | 103.3 | 3.5 | 0.459 |
| 4-1070 | 4-1530 | 0.953 | 209.5 | -12.0 | 0.10 | 1.319 | 43.1 | 0.892 | 4.034 | 101.9 | 160.8 | --- | --- | 1.36 | 0.367 | 151.8 | 102.5 | 3.5 | 0.434 |
| 4-1070 | 4-1550 | 0.941 | 209.6 | -12.0 | 0.06 | 1.312 | 43.4 | 0.883 | 3.753 | 101.8 | 162.4 | --- | --- | 1.33 | 0.342 | 149.4 | 101.6 | 3.6 | 0.411 |
| 4-1070 | 4-1570 | 0.931 | 209.6 | -12.1 | 0.02 | 1.306 | 43.8 | 0.875 | 3.545 | 101.7 | 163.9 | --- | --- | 1.31 | 0.319 | 146.8 | 100.7 | 3.6 | 0.390 |
| 4-1070 | 4-1590 | 0.921 | 209.7 | -12.2 | -0.03 | 1.300 | 44.2 | 0.868 | 3.387 | 101.4 | 165.3 | --- | --- | 1.29 | 0.299 | 144.0 | 99.8 | 3.6 | 0.372 |
| 4-1070 | 4-1610 | 0.911 | 209.9 | -12.3 | -0.07 | 1.296 | 44.6 | 0.862 | 3.265 | 101.0 | 166.6 | --- | --- | 1.28 | 0.281 | 141.0 | 98.8 | 3.7 | 0.355 |
| 4-1070 | 4-1630 | 0.902 | 210.0 | -12.4 | -0.11 | 1.293 | 45.0 | 0.856 | 3.168 | 100.6 | 167.8 | --- | --- | 1.26 | 0.264 | 137.8 | 97.8 | 3.7 | 0.340 |
| 4-1070 | 4-1650 | 0.893 | 210.2 | -12.5 | -0.15 | 1.290 | 45.5 | 0.850 | 3.092 | 100.1 | 169.0 | --- | --- | 1.24 | 0.250 | 134.5 | 96.7 | 3.7 | 0.327 |
| 4-1070 | 4-1670 | 0.884 | 210.5 | -12.6 | -0.19 | 1.287 | 45.9 | 0.845 | 3.030 | 99.6 | 170.1 | --- | --- | 1.23 | 0.238 | 130.9 | 95.6 | 3.8 | 0.315 |
| 4-1070 | 4-1690 | 0.875 | 210.8 | -12.8 | -0.22 | 1.285 | 46.3 | 0.841 | 2.981 | 99.0 | 171.2 | --- | --- | 1.22 | 0.227 | 127.2 | 94.5 | 3.8 | 0.305 |
| 4-1070 | 4-1710 | 0.866 | 211.1 | -12.9 | -0.26 | 1.283 | 46.7 | 0.836 | 2.942 | 98.3 | 172.2 | --- | --- | 1.21 | 0.219 | 123.4 | 93.4 | 3.8 | 0.295 |
| 4-1070 | 4-1730 | 0.857 | 211.4 | -13.1 | -0.30 | 1.282 | 47.2 | 0.832 | 2.910 | 97.6 | 173.2 | --- | --- | 1.20 | 0.211 | 119.5 | 92.3 | 3.8 | 0.287 |
| 4-1070 | 4-1750 | 0.849 | 211.7 | -13.2 | -0.33 | 1.281 | 47.6 | 0.828 | 2.885 | 96.8 | 174.1 | --- | --- | 1.19 | 0.205 | 115.6 | 91.2 | 3.9 | 0.280 |
| 4-1070 | 4-1770 | 0.840 | 212.1 | -13.4 | -0.37 | 1.280 | 48.1 | 0.824 | 2.865 | 96.0 | 175.0 | --- | --- | 1.18 | 0.201 | 111.7 | 90.2 | 3.9 | 0.274 |
| 4-1070 | 4-1790 | 0.832 | 212.4 | -13.6 | -0.41 | 1.279 | 48.6 | 0.820 | 2.850 | 95.2 | 175.9 | --- | --- | 1.18 | 0.198 | 107.8 | 89.1 | 3.9 | 0.269 |
| 4-1070 | 4-1810 | 0.824 | 212.8 | -13.8 | -0.44 | 1.278 | 49.0 | 0.817 | 2.839 | 94.3 | 176.8 | --- | --- | 1.17 | 0.196 | 104.0 | 88.2 | 3.9 | 0.264 |
| 4-1070 | 4-1830 | 0.815 | 213.3 | -14.0 | -0.48 | 1.278 | 49.5 | 0.814 | 2.832 | 93.4 | 177.6 | --- | --- | 1.17 | 0.194 | 100.4 | 87.3 | 3.9 | 0.260 |
| 4-1070 | 4-1850 | 0.807 | 213.7 | -14.2 | -0.51 | 1.278 | 50.0 | 0.810 | 2.827 | 92.5 | 178.4 | --- | --- | 1.16 | 0.194 | 96.9 | 86.4 | 3.9 | 0.257 |
| 4-1070 | 4-1870 | 0.798 | 214.1 | -14.4 | -0.55 | 1.278 | 50.5 | 0.807 | 2.824 | 91.6 | 179.2 | --- | --- | 1.16 | 0.195 | 93.5 | 85.6 | 3.9 | 0.254 |
| 4-1070 | 4-1890 | 0.790 | 214.6 | -14.6 | -0.58 | 1.278 | 51.0 | 0.804 | 2.824 | 90.6 | 179.9 | --- | --- | 1.16 | 0.196 | 90.4 | 84.9 | 4.0 | 0.252 |
| 4-1070 | 4-1910 | 0.781 | 215.1 | -14.8 | -0.62 | 1.278 | 51.5 | 0.801 | 2.826 | 89.6 | 180.6 | --- | 5.089 | 1.16 | 0.198 | 87.4 | 84.2 | 4.0 | 0.250 |
| 4-1070 | 4-1930 | 0.773 | 215.6 | -15.1 | -0.65 | 1.278 | 52.0 | 0.798 | 2.829 | 88.6 | 181.4 | --- | 5.087 | 1.16 | 0.200 | 84.6 | 83.7 | 4.0 | 0.249 |
| 4-1070 | 4-1950 | 0.764 | 216.1 | -15.3 | -0.69 | 1.278 | 52.5 | 0.795 | 2.834 | 87.5 | 182.1 | --- | 5.088 | 1.16 | 0.203 | 82.0 | 83.2 | 4.0 | 0.248 |
| 4-1070 | 4-1970 | 0.755 | 216.6 | -15.6 | -0.72 | 1.278 | 53.0 | 0.793 | 2.840 | 86.5 | 182.8 | --- | 5.091 | 1.17 | 0.206 | 79.6 | 82.8 | 4.0 | 0.248 |
| 4-1070 | 4-1990 | 0.747 | 217.1 | -15.8 | -0.76 | 1.279 | 53.5 | 0.790 | 2.847 | 85.4 | 183.4 | --- | 5.096 | 1.17 | 0.209 | 77.4 | 82.5 | 4.0 | 0.247 |
| 4-1070 | 4-2010 | 0.738 | 217.7 | -16.0 | -0.80 | 1.279 | 54.0 | 0.787 | 2.855 | 84.3 | 184.1 | --- | 5.104 | 1.18 | 0.213 | 75.4 | 82.2 | 4.0 | 0.247 |
| 4-1070 | 4-2030 | 0.730 | 218.3 | -16.3 | -0.83 | 1.280 | 54.5 | 0.785 | 2.865 | 83.2 | 184.7 | --- | 5.113 | 1.19 | 0.217 | 73.5 | 82.1 | 4.0 | 0.248 |
| 4-1070 | 4-2050 | 0.721 | 218.8 | -16.6 | -0.87 | 1.280 | 55.0 | 0.782 | 2.875 | 82.1 | 185.4 | --- | 5.123 | 1.19 | 0.221 | 71.7 | 82.0 | 4.0 | 0.248 |
| 4-1070 | 4-2070 | 0.712 | 219.4 | -16.8 | -0.91 | 1.281 | 55.6 | 0.780 | 2.885 | 80.9 | 186.0 | --- | 5.136 | 1.20 | 0.224 | 70.1 | 82.0 | 4.1 | 0.249 |
| 4-1070 | 4-2090 | 0.703 | 220.1 | -17.1 | -0.95 | 1.281 | 56.1 | 0.777 | 2.897 | 79.8 | 186.6 | --- | 5.149 | 1.21 | 0.228 | 68.6 | 82.0 | 4.1 | 0.249 |
| 4-1070 | 4-2110 | 0.694 | 220.7 | -17.4 | -0.99 | 1.282 | 56.6 | 0.775 | 2.909 | 78.6 | 187.2 | --- | 5.164 | 1.23 | 0.233 | 67.2 | 82.2 | 4.1 | 0.250 |
| 4-1070 | 4-2130 | 0.686 | 221.3 | -17.7 | -1.03 | 1.282 | 57.2 | 0.773 | 2.921 | 77.4 | 187.8 | --- | 5.179 | 1.24 | 0.237 | 65.9 | 82.4 | 4.1 | 0.251 |
| 4-1070 | 4-2150 | 0.677 | 222.0 | -18.0 | -1.07 | 1.283 | 57.7 | 0.771 | 2.935 | 76.2 | 188.4 | --- | 5.196 | 1.25 | 0.241 | 64.7 | 82.6 | 4.1 | 0.252 |
| 4-1070 | 4-2170 | 0.668 | 222.7 | -18.3 | -1.11 | 1.283 | 58.2 | 0.768 | 2.948 | 75.0 | 188.9 | --- | 5.213 | 1.27 | 0.245 | 63.6 | 83.0 | 4.1 | 0.254 |
| 4-1070 | 4-2190 | 0.659 | 223.4 | -18.6 | -1.16 | 1.284 | 58.8 | 0.766 | 2.962 | 73.7 | 189.5 | --- | 5.232 | 1.29 | 0.249 | 62.6 | 83.4 | 4.2 | 0.255 |
| 4-1070 | 4-2210 | 0.650 | 224.1 | -18.9 | -1.20 | 1.285 | 59.3 | 0.764 | 2.976 | 72.5 | 190.0 | --- | 5.251 | 1.31 | 0.253 | 61.7 | 83.8 | 4.2 | 0.256 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1070 | 4-2230 | 0.641 | 224.8 | -19.3 | -1.25 | 1.285 | 59.9 | 0.762 | 2.991 | 71.3 | 190.6 | --- | 5.270 | 1.33 | 0.257 | 60.8 | 84.3 | 4.2 | 0.258 |
| 4-1070 | 4-2250 | 0.632 | 225.6 | -19.6 | -1.30 | 1.286 | 60.5 | 0.760 | 3.006 | 70.0 | 191.1 | --- | 5.291 | 1.36 | 0.260 | 60.0 | 84.9 | 4.2 | 0.259 |
| 4-1070 | 4-2270 | 0.623 | 226.3 | -20.0 | -1.35 | 1.287 | 61.0 | 0.758 | 3.021 | 68.7 | 191.7 | --- | 5.312 | 1.38 | 0.264 | 59.2 | 85.5 | 4.3 | 0.261 |
| 4-1070 | 4-2290 | 0.614 | 227.1 | -20.3 | -1.40 | 1.287 | 61.6 | 0.756 | 3.036 | 67.4 | 192.2 | --- | 5.333 | 1.41 | 0.268 | 58.5 | 86.2 | 4.3 | 0.262 |
| 4-1070 | 4-2310 | 0.605 | 228.0 | -20.7 | -1.46 | 1.288 | 62.1 | 0.755 | 3.052 | 66.1 | 192.7 | --- | 5.355 | 1.45 | 0.272 | 57.9 | 86.9 | 4.3 | 0.264 |
| 4-1070 | 4-2330 | 0.596 | 228.8 | -21.1 | -1.52 | 1.289 | 62.7 | 0.753 | 3.068 | 64.8 | 193.2 | --- | 5.377 | 1.48 | 0.275 | 57.3 | 87.7 | 4.4 | 0.265 |
| 4-1070 | 4-2350 | 0.587 | 229.6 | -21.5 | -1.58 | 1.289 | 63.3 | 0.751 | 3.084 | 63.5 | 193.7 | --- | 5.400 | 1.52 | 0.279 | 56.7 | 88.5 | 4.4 | 0.267 |
| 4-1070 | 4-2370 | 0.578 | 230.5 | -21.9 | -1.64 | 1.290 | 63.8 | 0.749 | 3.100 | 62.2 | 194.2 | --- | 5.424 | 1.56 | 0.282 | 56.1 | 89.3 | 4.4 | 0.269 |
| 4-1070 | 4-2390 | 0.569 | 231.4 | -22.3 | -1.71 | 1.291 | 64.4 | 0.748 | 3.117 | 60.8 | 194.6 | --- | 5.447 | 1.61 | 0.286 | 55.6 | 90.2 | 4.5 | 0.270 |
| 4-1070 | 4-2410 | 0.560 | 232.4 | -22.8 | -1.78 | 1.291 | 65.0 | 0.746 | 3.133 | 59.5 | 195.1 | --- | 5.471 | 1.66 | 0.289 | 55.2 | 91.1 | 4.5 | 0.272 |
| 4-1070 | 4-2430 | 0.551 | 233.3 | -23.3 | -1.86 | 1.292 | 65.6 | 0.745 | 3.150 | 58.1 | 195.6 | --- | 5.496 | 1.72 | 0.292 | 54.7 | 92.0 | 4.6 | 0.274 |
| 4-1070 | 4-2450 | 0.543 | 234.3 | -23.8 | -1.95 | 1.293 | 66.2 | 0.743 | 3.167 | 56.8 | 196.0 | --- | 5.520 | 1.78 | 0.296 | 54.3 | 93.0 | 4.6 | 0.275 |
| 4-1070 | 4-2470 | 0.534 | 235.4 | -24.3 | -2.04 | 1.293 | 66.8 | 0.742 | 3.183 | 55.4 | 196.5 | --- | 5.545 | 1.85 | 0.299 | 53.9 | 94.0 | 4.7 | 0.277 |
| 4-1070 | 4-2490 | 0.525 | 236.4 | -24.8 | -2.13 | 1.294 | 67.3 | 0.741 | 3.200 | 54.0 | 196.9 | --- | 5.570 | 1.93 | 0.302 | 53.5 | 95.1 | 4.7 | 0.279 |
| 4-1070 | 4-2510 | 0.516 | 237.5 | -25.4 | -2.24 | 1.294 | 67.9 | 0.739 | 3.217 | 52.6 | 197.4 | --- | 5.596 | 2.01 | 0.305 | 53.2 | 96.1 | 4.8 | 0.280 |
| 4-1070 | 4-2530 | 0.508 | 238.6 | -26.0 | -2.36 | 1.295 | 68.5 | 0.738 | 3.234 | 51.2 | 197.8 | --- | 5.622 | 2.11 | 0.307 | 52.8 | 97.2 | 4.9 | 0.282 |
| 4-1070 | 4-2550 | 0.499 | 239.8 | -26.7 | -2.49 | 1.296 | 69.1 | 0.737 | 3.252 | 49.8 | 198.2 | --- | 5.648 | 2.22 | 0.310 | 52.5 | 98.3 | 5.0 | 0.284 |
| 4-1070 | 4-2570 | 0.491 | 241.0 | -27.4 | -2.63 | 1.296 | 69.7 | 0.736 | 3.269 | 48.4 | 198.6 | --- | 5.674 | 2.34 | 0.313 | 52.2 | 99.5 | 5.1 | 0.285 |
| 4-1070 | 4-2590 | 0.482 | 242.2 | -28.2 | -2.79 | 1.297 | 70.3 | 0.735 | 3.286 | 46.9 | 199.0 | --- | 5.701 | 2.48 | 0.316 | 51.9 | 100.7 | 5.2 | 0.287 |
| 4-1070 | 4-2610 | 0.474 | 243.5 | -29.0 | -2.97 | 1.298 | 70.9 | 0.734 | 3.303 | 45.5 | 199.4 | --- | 5.727 | 2.64 | 0.318 | 51.6 | 101.9 | 5.3 | 0.289 |
| 4-1070 | 4-2630 | 0.466 | 244.8 | -30.0 | -3.17 | 1.298 | 71.5 | 0.733 | 3.321 | 44.1 | 199.8 | --- | 5.754 | 2.83 | 0.321 | 51.3 | 103.1 | 5.4 | 0.290 |
| 4-1070 | 4-2650 | 0.458 | 246.1 | -31.0 | -3.41 | 1.299 | 72.1 | 0.732 | 3.338 | 42.6 | 200.2 | --- | 5.782 | 3.04 | 0.323 | 51.1 | 104.3 | 5.6 | 0.292 |
| 4-1070 | 4-2670 | 0.451 | 247.5 | -32.2 | -3.69 | 1.299 | 72.8 | 0.731 | 3.355 | 41.2 | 200.6 | --- | 5.809 | 3.30 | 0.325 | 50.8 | 105.6 | 5.8 | 0.294 |
| 4-1080 | 4-1420 | 1.160 | 213.8 | -13.2 | 0.45 | 1.387 | 33.8 | 0.982 | 17.168 | 114.1 | 154.3 | --- | --- | 1.62 | 0.567 | 164.9 | 104.1 | 3.4 | 0.636 |
| 4-1080 | 4-1440 | 1.138 | 213.6 | -13.2 | 0.38 | 1.368 | 34.3 | 0.966 | 9.036 | 114.5 | 156.4 | --- | --- | 1.56 | 0.519 | 163.5 | 103.6 | 3.4 | 0.592 |
| 4-1080 | 4-1460 | 1.118 | 213.4 | -13.2 | 0.32 | 1.352 | 34.8 | 0.952 | 6.503 | 114.8 | 158.2 | --- | --- | 1.52 | 0.477 | 161.9 | 103.0 | 3.4 | 0.553 |
| 4-1080 | 4-1480 | 1.100 | 213.4 | -13.2 | 0.26 | 1.339 | 35.3 | 0.940 | 5.279 | 114.9 | 160.0 | --- | --- | 1.47 | 0.438 | 160.1 | 102.3 | 3.4 | 0.519 |
| 4-1080 | 4-1500 | 1.084 | 213.3 | -13.3 | 0.20 | 1.328 | 35.8 | 0.930 | 4.565 | 114.8 | 161.6 | --- | --- | 1.43 | 0.404 | 158.2 | 101.5 | 3.4 | 0.488 |
| 4-1080 | 4-1520 | 1.069 | 213.4 | -13.3 | 0.14 | 1.318 | 36.3 | 0.921 | 4.103 | 114.6 | 163.0 | --- | --- | 1.40 | 0.373 | 156.1 | 100.7 | 3.5 | 0.461 |
| 4-1080 | 4-1540 | 1.055 | 213.5 | -13.4 | 0.09 | 1.310 | 36.8 | 0.913 | 3.782 | 114.4 | 164.4 | --- | --- | 1.36 | 0.345 | 153.8 | 99.9 | 3.5 | 0.436 |
| 4-1080 | 4-1560 | 1.042 | 213.6 | -13.5 | 0.04 | 1.304 | 37.3 | 0.906 | 3.550 | 114.0 | 165.7 | --- | --- | 1.33 | 0.319 | 151.3 | 99.0 | 3.5 | 0.414 |
| 4-1080 | 4-1580 | 1.030 | 213.8 | -13.6 | -0.01 | 1.298 | 37.9 | 0.899 | 3.376 | 113.6 | 166.9 | --- | --- | 1.30 | 0.297 | 148.6 | 98.0 | 3.5 | 0.394 |
| 4-1080 | 4-1600 | 1.018 | 214.0 | -13.7 | -0.05 | 1.294 | 38.4 | 0.893 | 3.243 | 113.0 | 168.0 | --- | --- | 1.27 | 0.276 | 145.7 | 97.0 | 3.6 | 0.377 |
| 4-1080 | 4-1620 | 1.007 | 214.2 | -13.8 | -0.10 | 1.290 | 38.9 | 0.887 | 3.139 | 112.5 | 169.1 | --- | --- | 1.25 | 0.258 | 142.5 | 96.0 | 3.6 | 0.361 |
| 4-1080 | 4-1640 | 0.996 | 214.5 | -13.9 | -0.14 | 1.286 | 39.4 | 0.882 | 3.057 | 111.8 | 170.2 | --- | --- | 1.23 | 0.242 | 139.0 | 94.9 | 3.6 | 0.347 |
| 4-1080 | 4-1660 | 0.985 | 214.8 | -14.0 | -0.18 | 1.284 | 39.9 | 0.877 | 2.992 | 111.1 | 171.1 | --- | --- | 1.21 | 0.228 | 135.4 | 93.9 | 3.6 | 0.335 |
| 4-1080 | 4-1680 | 0.975 | 215.1 | -14.2 | -0.22 | 1.281 | 40.4 | 0.872 | 2.941 | 110.4 | 172.1 | --- | --- | 1.19 | 0.216 | 131.5 | 92.8 | 3.7 | 0.324 |
| 4-1080 | 4-1700 | 0.965 | 215.4 | -14.3 | -0.26 | 1.279 | 40.9 | 0.868 | 2.899 | 109.6 | 173.0 | --- | --- | 1.17 | 0.206 | 127.4 | 91.8 | 3.7 | 0.314 |
| 4-1080 | 4-1720 | 0.955 | 215.8 | -14.5 | -0.30 | 1.278 | 41.4 | 0.864 | 2.867 | 108.8 | 173.8 | --- | --- | 1.15 | 0.198 | 123.2 | 90.7 | 3.7 | 0.305 |
| 4-1080 | 4-1740 | 0.945 | 216.1 | -14.7 | -0.34 | 1.277 | 42.0 | 0.859 | 2.841 | 107.9 | 174.7 | --- | --- | 1.14 | 0.191 | 118.9 | 89.7 | 3.7 | 0.298 |
| 4-1080 | 4-1760 | 0.936 | 216.5 | -14.8 | -0.37 | 1.276 | 42.5 | 0.856 | 2.821 | 107.0 | 175.5 | --- | --- | 1.12 | 0.186 | 114.5 | 88.7 | 3.7 | 0.291 |
| 4-1080 | 4-1780 | 0.926 | 216.9 | -15.0 | -0.41 | 1.275 | 43.0 | 0.852 | 2.805 | 106.1 | 176.3 | --- | --- | 1.11 | 0.182 | 110.2 | 87.7 | 3.7 | 0.285 |
| 4-1080 | 4-1800 | 0.917 | 217.3 | -15.2 | -0.44 | 1.274 | 43.5 | 0.848 | 2.794 | 105.2 | 177.0 | --- | --- | 1.10 | 0.180 | 105.9 | 86.8 | 3.7 | 0.280 |
| 4-1080 | 4-1820 | 0.907 | 217.8 | -15.4 | -0.48 | 1.274 | 44.1 | 0.844 | 2.787 | 104.2 | 177.8 | --- | --- | 1.09 | 0.178 | 101.7 | 86.0 | 3.7 | 0.276 |
| 4-1080 | 4-1840 | 0.898 | 218.2 | -15.6 | -0.51 | 1.274 | 44.6 | 0.841 | 2.782 | 103.2 | 178.5 | --- | --- | 1.08 | 0.178 | 97.8 | 85.2 | 3.8 | 0.273 |
| 4-1080 | 4-1860 | 0.889 | 218.7 | -15.7 | -0.54 | 1.274 | 45.2 | 0.837 | 2.780 | 102.2 | 179.2 | --- | --- | 1.07 | 0.179 | 94.0 | 84.4 | 3.8 | 0.270 |
| 4-1080 | 4-1880 | 0.879 | 219.1 | -15.9 | -0.58 | 1.274 | 45.7 | 0.834 | 2.780 | 101.2 | 179.9 | --- | --- | 1.06 | 0.180 | 90.4 | 83.8 | 3.8 | 0.267 |
| 4-1080 | 4-1900 | 0.870 | 219.6 | -16.1 | -0.61 | 1.274 | 46.2 | 0.831 | 2.782 | 100.1 | 180.6 | --- | 5.093 | 1.06 | 0.183 | 87.1 | 83.2 | 3.8 | 0.265 |
| 4-1080 | 4-1920 | 0.861 | 220.1 | -16.3 | -0.64 | 1.274 | 46.8 | 0.828 | 2.785 | 99.0 | 181.3 | --- | 5.091 | 1.05 | 0.185 | 84.0 | 82.7 | 3.8 | 0.264 |
| 4-1080 | 4-1940 | 0.851 | 220.6 | -16.5 | -0.67 | 1.274 | 47.3 | 0.824 | 2.791 | 98.0 | 181.9 | --- | 5.091 | 1.05 | 0.188 | 81.2 | 82.3 | 3.8 | 0.263 |
| 4-1080 | 4-1960 | 0.842 | 221.2 | -16.8 | -0.70 | 1.274 | 47.9 | 0.821 | 2.797 | 96.8 | 182.5 | --- | 5.095 | 1.05 | 0.192 | 78.5 | 81.9 | 3.8 | 0.262 |
| 4-1080 | 4-1980 | 0.833 | 221.7 | -17.0 | -0.74 | 1.275 | 48.4 | 0.818 | 2.805 | 95.7 | 183.2 | --- | 5.100 | 1.05 | 0.196 | 76.1 | 81.7 | 3.8 | 0.261 |
| 4-1080 | 4-2000 | 0.824 | 222.2 | -17.2 | -0.77 | 1.275 | 49.0 | 0.815 | 2.814 | 94.6 | 183.8 | --- | 5.108 | 1.04 | 0.200 | 73.9 | 81.5 | 3.8 | 0.261 |
| 4-1080 | 4-2020 | 0.814 | 222.8 | -17.4 | -0.80 | 1.276 | 49.6 | 0.812 | 2.823 | 93.4 | 184.4 | --- | 5.117 | 1.04 | 0.204 | 71.9 | 81.4 | 3.8 | 0.261 |
| 4-1080 | 4-2040 | 0.805 | 223.4 | -17.6 | -0.83 | 1.276 | 50.1 | 0.809 | 2.834 | 92.3 | 185.0 | --- | 5.128 | 1.05 | 0.208 | 70.0 | 81.3 | 3.8 | 0.261 |
| 4-1080 | 4-2060 | 0.795 | 223.9 | -17.9 | -0.87 | 1.277 | 50.7 | 0.807 | 2.845 | 91.1 | 185.6 | --- | 5.141 | 1.05 | 0.213 | 68.3 | 81.4 | 3.8 | 0.262 |
| 4-1080 | 4-2080 | 0.786 | 224.5 | -18.1 | -0.90 | 1.277 | 51.2 | 0.804 | 2.857 | 89.9 | 186.2 | --- | 5.154 | 1.05 | 0.217 | 66.8 | 81.5 | 3.8 | 0.262 |
| 4-1080 | 4-2100 | 0.777 | 225.1 | -18.3 | -0.93 | 1.278 | 51.8 | 0.801 | 2.870 | 88.7 | 186.7 | --- | 5.169 | 1.05 | 0.222 | 65.3 | 81.6 | 3.8 | 0.263 |
| 4-1080 | 4-2120 | 0.767 | 225.8 | -18.6 | -0.96 | 1.279 | 52.4 | 0.799 | 2.883 | 87.5 | 187.3 | --- | 5.185 | 1.06 | 0.226 | 64.0 | 81.9 | 3.9 | 0.264 |
| 4-1080 | 4-2140 | 0.758 | 226.4 | -18.8 | -1.00 | 1.279 | 52.9 | 0.796 | 2.897 | 86.3 | 187.8 | --- | 5.202 | 1.07 | 0.231 | 62.8 | 82.2 | 3.9 | 0.265 |
| 4-1080 | 4-2160 | 0.748 | 227.0 | -19.1 | -1.03 | 1.280 | 53.5 | 0.793 | 2.911 | 85.0 | 188.4 | --- | 5.220 | 1.07 | 0.235 | 61.7 | 82.5 | 3.9 | 0.266 |
| 4-1080 | 4-2180 | 0.739 | 227.7 | -19.3 | -1.07 | 1.281 | 54.1 | 0.791 | 2.925 | 83.8 | 188.9 | --- | 5.238 | 1.08 | 0.240 | 60.7 | 82.9 | 3.9 | 0.267 |
| 4-1080 | 4-2200 | 0.729 | 228.4 | -19.6 | -1.10 | 1.281 | 54.7 | 0.788 | 2.940 | 82.5 | 189.5 | --- | 5.258 | 1.09 | 0.244 | 59.8 | 83.4 | 3.9 | 0.268 |
| 4-1080 | 4-2220 | 0.720 | 229.0 | -19.9 | -1.14 | 1.282 | 55.3 | 0.786 | 2.955 | 81.2 | 190.0 | --- | 5.278 | 1.10 | 0.248 | 58.9 | 84.0 | 3.9 | 0.269 |
| 4-1080 | 4-2240 | 0.710 | 229.8 | -20.1 | -1.17 | 1.283 | 55.8 | 0.783 | 2.971 | 80.0 | 190.5 | --- | 5.298 | 1.11 | 0.252 | 58.1 | 84.5 | 3.9 | 0.270 |
| 4-1080 | 4-2260 | 0.701 | 230.5 | -20.4 | -1.21 | 1.283 | 56.4 | 0.781 | 2.986 | 78.7 | 191.0 | --- | 5.319 | 1.13 | 0.257 | 57.4 | 85.2 | 4.0 | 0.272 |
| 4-1080 | 4-2280 | 0.691 | 231.2 | -20.7 | -1.25 | 1.284 | 57.0 | 0.779 | 3.002 | 77.4 | 191.5 | --- | 5.341 | 1.14 | 0.261 | 56.7 | 85.8 | 4.0 | 0.273 |
| 4-1080 | 4-2300 | 0.682 | 232.0 | -21.0 | -1.29 | 1.285 | 57.6 | 0.777 | 3.019 | 76.1 | 192.0 | --- | 5.363 | 1.16 | 0.265 | 56.1 | 86.6 | 4.0 | 0.274 |
| 4-1080 | 4-2320 | 0.672 | 232.7 | -21.3 | -1.33 | 1.285 | 58.2 | 0.774 | 3.035 | 74.7 | 192.5 | --- | 5.386 | 1.18 | 0.269 | 55.5 | 87.3 | 4.0 | 0.276 |
| 4-1080 | 4-2340 | 0.663 | 233.5 | -21.6 | -1.38 | 1.286 | 58.8 | 0.772 | 3.052 | 73.4 | 193.0 | --- | 5.408 | 1.20 | 0.272 | 54.9 | 88.1 | 4.0 | 0.277 |
| 4-1080 | 4-2360 | 0.653 | 234.3 | -21.9 | -1.42 | 1.287 | 59.4 | 0.770 | 3.069 | 72.1 | 193.5 | --- | 5.432 | 1.22 | 0.276 | 54.4 | 89.0 | 4.1 | 0.278 |
| 4-1080 | 4-2380 | 0.644 | 235.1 | -22.2 | -1.47 | 1.287 | 59.9 | 0.768 | 3.085 | 70.7 | 193.9 | --- | 5.455 | 1.25 | 0.280 | 54.0 | 89.8 | 4.1 | 0.280 |
| 4-1080 | 4-2400 | 0.634 | 236.0 | -22.5 | -1.52 | 1.288 | 60.5 | 0.766 | 3.103 | 69.4 | 194.4 | --- | 5.479 | 1.28 | 0.283 | 53.5 | 90.8 | 4.1 | 0.281 |
| 4-1080 | 4-2420 | 0.624 | 236.9 | -22.9 | -1.57 | 1.289 | 61.1 | 0.764 | 3.120 | 68.0 | 194.9 | --- | 5.504 | 1.30 | 0.287 | 53.1 | 91.7 | 4.1 | 0.283 |
| 4-1080 | 4-2440 | 0.615 | 237.7 | -23.2 | -1.62 | 1.290 | 61.7 | 0.762 | 3.137 | 66.7 | 195.3 | --- | 5.528 | 1.34 | 0.290 | 52.7 | 92.7 | 4.2 | 0.284 |
| 4-1080 | 4-2460 | 0.605 | 238.7 | -23.6 | -1.68 | 1.290 | 62.3 | 0.760 | 3.154 | 65.3 | 195.8 | --- | 5.553 | 1.37 | 0.294 | 52.4 | 93.7 | 4.2 | 0.286 |
| 4-1080 | 4-2480 | 0.596 | 239.6 | -23.9 | -1.73 | 1.291 | 62.9 | 0.759 | 3.172 | 63.9 | 196.2 | --- | 5.578 | 1.41 | 0.297 | 52.0 | 94.7 | 4.2 | 0.287 |
| 4-1080 | 4-2500 | 0.586 | 240.6 | -24.3 | -1.80 | 1.292 | 63.5 | 0.757 | 3.189 | 62.5 | 196.7 | --- | 5.604 | 1.46 | 0.300 | 51.7 | 95.8 | 4.2 | 0.288 |
| 4-1080 | 4-2520 | 0.577 | 241.6 | -24.7 | -1.86 | 1.292 | 64.2 | 0.755 | 3.207 | 61.1 | 197.1 | --- | 5.629 | 1.50 | 0.303 | 51.4 | 96.9 | 4.3 | 0.290 |
| 4-1080 | 4-2540 | 0.568 | 242.6 | -25.1 | -1.94 | 1.293 | 64.8 | 0.754 | 3.225 | 59.7 | 197.5 | --- | 5.655 | 1.55 | 0.306 | 51.1 | 98.0 | 4.3 | 0.291 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1080 | 4-2560 | 0.558 | 243.6 | -25.5 | -2.01 | 1.294 | 65.4 | 0.752 | 3.243 | 58.3 | 197.9 | --- | 5.681 | 1.61 | 0.309 | 50.9 | 99.1 | 4.3 | 0.293 |
| 4-1080 | 4-2580 | 0.549 | 244.7 | -26.0 | -2.10 | 1.294 | 66.0 | 0.751 | 3.260 | 56.8 | 198.3 | --- | 5.707 | 1.68 | 0.312 | 50.6 | 100.3 | 4.4 | 0.294 |
| 4-1080 | 4-2600 | 0.540 | 245.8 | -26.5 | -2.19 | 1.295 | 66.6 | 0.749 | 3.278 | 55.4 | 198.7 | --- | 5.734 | 1.75 | 0.314 | 50.4 | 101.5 | 4.4 | 0.295 |
| 4-1080 | 4-2620 | 0.531 | 247.0 | -27.0 | -2.28 | 1.295 | 67.2 | 0.748 | 3.296 | 54.0 | 199.1 | --- | 5.761 | 1.83 | 0.317 | 50.2 | 102.7 | 4.5 | 0.297 |
| 4-1080 | 4-2640 | 0.521 | 248.2 | -27.5 | -2.39 | 1.296 | 67.8 | 0.746 | 3.314 | 52.5 | 199.5 | --- | 5.788 | 1.92 | 0.320 | 49.9 | 103.9 | 4.5 | 0.298 |
| 4-1080 | 4-2660 | 0.513 | 249.4 | -28.1 | -2.51 | 1.297 | 68.4 | 0.745 | 3.332 | 51.1 | 199.9 | --- | 5.815 | 2.02 | 0.322 | 49.7 | 105.2 | 4.6 | 0.300 |
| 4-1080 | 4-2680 | 0.504 | 250.7 | -28.7 | -2.64 | 1.297 | 69.1 | 0.744 | 3.350 | 49.6 | 200.3 | --- | 5.842 | 2.13 | 0.325 | 49.5 | 106.4 | 4.7 | 0.301 |
| 4-1090 | 4-1430 | 1.276 | 217.2 | -14.4 | 0.52 | 1.377 | 26.5 | 0.984 | 12.156 | 128.9 | 160.3 | --- | --- | 1.72 | 0.546 | 167.5 | 101.9 | 3.3 | 0.637 |
| 4-1090 | 4-1450 | 1.251 | 217.2 | -14.5 | 0.43 | 1.358 | 27.2 | 0.974 | 7.544 | 128.8 | 161.8 | --- | --- | 1.65 | 0.498 | 166.1 | 101.3 | 3.3 | 0.594 |
| 4-1090 | 4-1470 | 1.229 | 217.2 | -14.5 | 0.35 | 1.343 | 27.9 | 0.964 | 5.753 | 128.5 | 163.2 | --- | --- | 1.58 | 0.455 | 164.6 | 100.6 | 3.4 | 0.556 |
| 4-1090 | 4-1490 | 1.209 | 217.3 | -14.6 | 0.28 | 1.330 | 28.6 | 0.956 | 4.811 | 128.2 | 164.4 | --- | --- | 1.52 | 0.417 | 162.9 | 99.8 | 3.4 | 0.523 |
| 4-1090 | 4-1510 | 1.190 | 217.4 | -14.6 | 0.21 | 1.320 | 29.2 | 0.949 | 4.236 | 127.7 | 165.6 | --- | --- | 1.46 | 0.382 | 161.0 | 99.0 | 3.4 | 0.493 |
| 4-1090 | 4-1530 | 1.173 | 217.6 | -14.7 | 0.14 | 1.311 | 29.9 | 0.942 | 3.854 | 127.1 | 166.7 | --- | --- | 1.41 | 0.351 | 158.9 | 98.2 | 3.4 | 0.466 |
| 4-1090 | 4-1550 | 1.158 | 217.8 | -14.8 | 0.08 | 1.303 | 30.5 | 0.935 | 3.584 | 126.5 | 167.7 | --- | --- | 1.36 | 0.323 | 156.6 | 97.3 | 3.4 | 0.443 |
| 4-1090 | 4-1570 | 1.143 | 218.1 | -15.0 | 0.02 | 1.297 | 31.2 | 0.929 | 3.386 | 125.9 | 168.7 | --- | --- | 1.32 | 0.298 | 154.0 | 96.3 | 3.5 | 0.422 |
| 4-1090 | 4-1590 | 1.129 | 218.3 | -15.1 | -0.03 | 1.292 | 31.8 | 0.924 | 3.237 | 125.1 | 169.7 | --- | --- | 1.28 | 0.275 | 151.2 | 95.3 | 3.5 | 0.403 |
| 4-1090 | 4-1610 | 1.116 | 218.6 | -15.2 | -0.09 | 1.287 | 32.4 | 0.919 | 3.122 | 124.4 | 170.6 | --- | --- | 1.24 | 0.254 | 148.1 | 94.3 | 3.5 | 0.386 |
| 4-1090 | 4-1630 | 1.103 | 218.9 | -15.3 | -0.13 | 1.284 | 33.0 | 0.914 | 3.032 | 123.6 | 171.4 | --- | --- | 1.21 | 0.236 | 144.7 | 93.3 | 3.5 | 0.371 |
| 4-1090 | 4-1650 | 1.091 | 219.3 | -15.5 | -0.18 | 1.280 | 33.6 | 0.909 | 2.962 | 122.7 | 172.2 | --- | --- | 1.18 | 0.220 | 141.0 | 92.3 | 3.5 | 0.358 |
| 4-1090 | 4-1670 | 1.079 | 219.6 | -15.6 | -0.23 | 1.278 | 34.2 | 0.904 | 2.906 | 121.8 | 173.0 | --- | --- | 1.15 | 0.206 | 137.0 | 91.3 | 3.5 | 0.346 |
| 4-1090 | 4-1690 | 1.067 | 220.0 | -15.8 | -0.27 | 1.276 | 34.8 | 0.900 | 2.862 | 120.9 | 173.8 | --- | --- | 1.13 | 0.194 | 132.7 | 90.2 | 3.5 | 0.335 |
| 4-1090 | 4-1710 | 1.056 | 220.4 | -15.9 | -0.31 | 1.274 | 35.5 | 0.896 | 2.827 | 120.0 | 174.5 | --- | --- | 1.10 | 0.184 | 128.2 | 89.2 | 3.6 | 0.326 |
| 4-1090 | 4-1730 | 1.045 | 220.8 | -16.1 | -0.35 | 1.273 | 36.1 | 0.892 | 2.800 | 119.0 | 175.3 | --- | --- | 1.08 | 0.176 | 123.4 | 88.3 | 3.6 | 0.318 |
| 4-1090 | 4-1750 | 1.034 | 221.2 | -16.3 | -0.39 | 1.272 | 36.7 | 0.888 | 2.778 | 118.0 | 176.0 | --- | --- | 1.06 | 0.170 | 118.6 | 87.3 | 3.6 | 0.311 |
| 4-1090 | 4-1770 | 1.023 | 221.7 | -16.4 | -0.42 | 1.271 | 37.3 | 0.884 | 2.762 | 117.0 | 176.7 | --- | --- | 1.04 | 0.165 | 113.6 | 86.4 | 3.6 | 0.305 |
| 4-1090 | 4-1790 | 1.013 | 222.1 | -16.6 | -0.46 | 1.270 | 37.9 | 0.880 | 2.751 | 116.0 | 177.3 | --- | --- | 1.02 | 0.162 | 108.7 | 85.6 | 3.6 | 0.299 |
| 4-1090 | 4-1810 | 1.002 | 222.6 | -16.8 | -0.49 | 1.270 | 38.5 | 0.876 | 2.742 | 114.9 | 178.0 | --- | --- | 1.01 | 0.161 | 103.9 | 84.8 | 3.6 | 0.295 |
| 4-1090 | 4-1830 | 0.992 | 223.1 | -16.9 | -0.52 | 1.270 | 39.1 | 0.872 | 2.738 | 113.8 | 178.6 | --- | --- | 0.99 | 0.160 | 99.2 | 84.1 | 3.6 | 0.291 |
| 4-1090 | 4-1850 | 0.982 | 223.5 | -17.1 | -0.56 | 1.270 | 39.7 | 0.869 | 2.735 | 112.8 | 179.3 | --- | --- | 0.98 | 0.161 | 94.8 | 83.4 | 3.6 | 0.288 |
| 4-1090 | 4-1870 | 0.972 | 224.0 | -17.3 | -0.59 | 1.270 | 40.3 | 0.865 | 2.735 | 111.7 | 179.9 | --- | --- | 0.97 | 0.163 | 90.7 | 82.8 | 3.6 | 0.285 |
| 4-1090 | 4-1890 | 0.961 | 224.5 | -17.5 | -0.62 | 1.270 | 40.9 | 0.862 | 2.738 | 110.5 | 180.5 | --- | 5.096 | 0.96 | 0.165 | 86.9 | 82.3 | 3.6 | 0.283 |
| 4-1090 | 4-1910 | 0.951 | 225.0 | -17.7 | -0.65 | 1.270 | 41.5 | 0.858 | 2.741 | 109.4 | 181.1 | --- | 5.094 | 0.95 | 0.168 | 83.4 | 81.9 | 3.6 | 0.281 |
| 4-1090 | 4-1930 | 0.941 | 225.5 | -17.8 | -0.68 | 1.270 | 42.1 | 0.855 | 2.747 | 108.3 | 181.7 | --- | 5.094 | 0.94 | 0.172 | 80.2 | 81.5 | 3.6 | 0.279 |
| 4-1090 | 4-1950 | 0.931 | 226.1 | -18.0 | -0.71 | 1.270 | 42.7 | 0.851 | 2.754 | 107.1 | 182.3 | --- | 5.098 | 0.93 | 0.176 | 77.2 | 81.2 | 3.6 | 0.278 |
| 4-1090 | 4-1970 | 0.921 | 226.6 | -18.2 | -0.74 | 1.271 | 43.3 | 0.848 | 2.762 | 105.9 | 182.9 | --- | 5.104 | 0.92 | 0.180 | 74.6 | 81.0 | 3.6 | 0.277 |
| 4-1090 | 4-1990 | 0.911 | 227.2 | -18.4 | -0.77 | 1.271 | 43.9 | 0.845 | 2.771 | 104.8 | 183.4 | --- | 5.112 | 0.92 | 0.185 | 72.1 | 80.8 | 3.6 | 0.277 |
| 4-1090 | 4-2010 | 0.901 | 227.7 | -18.6 | -0.80 | 1.272 | 44.5 | 0.841 | 2.781 | 103.6 | 184.0 | --- | 5.121 | 0.91 | 0.190 | 70.0 | 80.8 | 3.6 | 0.277 |
| 4-1090 | 4-2030 | 0.891 | 228.3 | -18.8 | -0.82 | 1.272 | 45.1 | 0.838 | 2.792 | 102.4 | 184.5 | --- | 5.132 | 0.91 | 0.195 | 68.0 | 80.8 | 3.6 | 0.276 |
| 4-1090 | 4-2050 | 0.881 | 228.8 | -19.0 | -0.85 | 1.273 | 45.7 | 0.835 | 2.804 | 101.2 | 185.1 | --- | 5.145 | 0.90 | 0.200 | 66.2 | 80.8 | 3.6 | 0.277 |
| 4-1090 | 4-2070 | 0.871 | 229.4 | -19.2 | -0.88 | 1.274 | 46.3 | 0.832 | 2.816 | 99.9 | 185.6 | --- | 5.159 | 0.90 | 0.205 | 64.6 | 81.0 | 3.6 | 0.277 |
| 4-1090 | 4-2090 | 0.861 | 230.0 | -19.4 | -0.91 | 1.274 | 46.9 | 0.829 | 2.829 | 98.7 | 186.2 | --- | 5.175 | 0.90 | 0.210 | 63.1 | 81.2 | 3.6 | 0.277 |
| 4-1090 | 4-2110 | 0.851 | 230.6 | -19.6 | -0.94 | 1.275 | 47.5 | 0.826 | 2.843 | 97.5 | 186.7 | --- | 5.191 | 0.90 | 0.215 | 61.7 | 81.4 | 3.6 | 0.278 |
| 4-1090 | 4-2130 | 0.841 | 231.2 | -19.8 | -0.96 | 1.276 | 48.1 | 0.823 | 2.857 | 96.2 | 187.2 | --- | 5.208 | 0.90 | 0.220 | 60.5 | 81.8 | 3.7 | 0.278 |
| 4-1090 | 4-2150 | 0.831 | 231.9 | -20.0 | -0.99 | 1.276 | 48.7 | 0.820 | 2.871 | 94.9 | 187.8 | --- | 5.226 | 0.90 | 0.225 | 59.4 | 82.2 | 3.7 | 0.279 |
| 4-1090 | 4-2170 | 0.821 | 232.5 | -20.2 | -1.02 | 1.277 | 49.3 | 0.817 | 2.886 | 93.7 | 188.3 | --- | 5.245 | 0.90 | 0.229 | 58.4 | 82.6 | 3.7 | 0.280 |
| 4-1090 | 4-2190 | 0.811 | 233.1 | -20.4 | -1.05 | 1.278 | 49.9 | 0.814 | 2.902 | 92.4 | 188.8 | --- | 5.265 | 0.90 | 0.234 | 57.5 | 83.1 | 3.7 | 0.281 |
| 4-1090 | 4-2210 | 0.801 | 233.8 | -20.7 | -1.08 | 1.278 | 50.5 | 0.812 | 2.917 | 91.1 | 189.3 | --- | 5.285 | 0.91 | 0.239 | 56.6 | 83.6 | 3.7 | 0.282 |
| 4-1090 | 4-2230 | 0.791 | 234.5 | -20.9 | -1.11 | 1.279 | 51.1 | 0.809 | 2.933 | 89.8 | 189.8 | --- | 5.306 | 0.91 | 0.243 | 55.9 | 84.2 | 3.7 | 0.283 |
| 4-1090 | 4-2250 | 0.781 | 235.2 | -21.1 | -1.14 | 1.280 | 51.7 | 0.806 | 2.950 | 88.5 | 190.3 | --- | 5.327 | 0.92 | 0.248 | 55.2 | 84.9 | 3.7 | 0.284 |
| 4-1090 | 4-2270 | 0.771 | 235.9 | -21.3 | -1.16 | 1.281 | 52.3 | 0.803 | 2.966 | 87.2 | 190.8 | --- | 5.349 | 0.92 | 0.252 | 54.5 | 85.6 | 3.7 | 0.285 |
| 4-1090 | 4-2290 | 0.761 | 236.6 | -21.5 | -1.19 | 1.281 | 52.9 | 0.801 | 2.983 | 85.9 | 191.3 | --- | 5.371 | 0.93 | 0.257 | 53.9 | 86.3 | 3.7 | 0.286 |
| 4-1090 | 4-2310 | 0.751 | 237.3 | -21.8 | -1.23 | 1.282 | 53.6 | 0.798 | 3.000 | 84.5 | 191.7 | --- | 5.394 | 0.94 | 0.261 | 53.4 | 87.1 | 3.7 | 0.287 |
| 4-1090 | 4-2330 | 0.741 | 238.0 | -22.0 | -1.26 | 1.283 | 54.2 | 0.796 | 3.017 | 83.2 | 192.2 | --- | 5.417 | 0.95 | 0.265 | 52.8 | 87.9 | 3.8 | 0.289 |
| 4-1090 | 4-2350 | 0.731 | 238.8 | -22.2 | -1.29 | 1.284 | 54.8 | 0.793 | 3.034 | 81.9 | 192.7 | --- | 5.441 | 0.96 | 0.269 | 52.4 | 88.7 | 3.8 | 0.290 |
| 4-1090 | 4-2370 | 0.721 | 239.5 | -22.5 | -1.32 | 1.284 | 55.4 | 0.791 | 3.052 | 80.5 | 193.2 | --- | 5.465 | 0.97 | 0.273 | 52.0 | 89.6 | 3.8 | 0.291 |
| 4-1090 | 4-2390 | 0.711 | 240.3 | -22.7 | -1.36 | 1.285 | 56.0 | 0.788 | 3.069 | 79.1 | 193.6 | --- | 5.489 | 0.99 | 0.277 | 51.6 | 90.5 | 3.8 | 0.292 |
| 4-1090 | 4-2410 | 0.701 | 241.1 | -23.0 | -1.39 | 1.286 | 56.6 | 0.786 | 3.087 | 77.8 | 194.1 | --- | 5.513 | 1.00 | 0.281 | 51.2 | 91.5 | 3.8 | 0.293 |
| 4-1090 | 4-2430 | 0.691 | 241.9 | -23.2 | -1.43 | 1.287 | 57.2 | 0.784 | 3.105 | 76.4 | 194.5 | --- | 5.538 | 1.02 | 0.284 | 50.8 | 92.4 | 3.8 | 0.295 |
| 4-1090 | 4-2450 | 0.681 | 242.8 | -23.5 | -1.46 | 1.287 | 57.9 | 0.781 | 3.123 | 75.0 | 195.0 | --- | 5.563 | 1.04 | 0.288 | 50.5 | 93.4 | 3.8 | 0.296 |
| 4-1090 | 4-2470 | 0.671 | 243.6 | -23.7 | -1.50 | 1.288 | 58.5 | 0.779 | 3.141 | 73.6 | 195.4 | --- | 5.588 | 1.06 | 0.291 | 50.2 | 94.5 | 3.9 | 0.297 |
| 4-1090 | 4-2490 | 0.661 | 244.5 | -24.0 | -1.54 | 1.289 | 59.1 | 0.777 | 3.159 | 72.2 | 195.8 | --- | 5.613 | 1.08 | 0.295 | 50.0 | 95.5 | 3.9 | 0.298 |
| 4-1090 | 4-2510 | 0.651 | 245.4 | -24.3 | -1.59 | 1.289 | 59.7 | 0.775 | 3.177 | 70.8 | 196.3 | --- | 5.639 | 1.10 | 0.298 | 49.7 | 96.6 | 3.9 | 0.299 |
| 4-1090 | 4-2530 | 0.641 | 246.3 | -24.5 | -1.63 | 1.290 | 60.4 | 0.773 | 3.195 | 69.4 | 196.7 | --- | 5.665 | 1.13 | 0.301 | 49.5 | 97.7 | 3.9 | 0.300 |
| 4-1090 | 4-2550 | 0.631 | 247.2 | -24.8 | -1.68 | 1.291 | 61.0 | 0.771 | 3.213 | 68.0 | 197.1 | --- | 5.691 | 1.16 | 0.304 | 49.2 | 98.9 | 3.9 | 0.302 |
| 4-1090 | 4-2570 | 0.621 | 248.2 | -25.1 | -1.73 | 1.291 | 61.6 | 0.769 | 3.232 | 66.6 | 197.5 | --- | 5.717 | 1.19 | 0.307 | 49.0 | 100.0 | 3.9 | 0.303 |
| 4-1090 | 4-2590 | 0.611 | 249.2 | -25.4 | -1.78 | 1.292 | 62.2 | 0.767 | 3.250 | 65.2 | 197.9 | --- | 5.743 | 1.22 | 0.310 | 48.8 | 101.2 | 3.9 | 0.304 |
| 4-1090 | 4-2610 | 0.601 | 250.2 | -25.7 | -1.83 | 1.293 | 62.9 | 0.765 | 3.268 | 63.7 | 198.3 | --- | 5.770 | 1.26 | 0.313 | 48.7 | 102.4 | 4.0 | 0.305 |
| 4-1090 | 4-2630 | 0.591 | 251.2 | -26.1 | -1.89 | 1.293 | 63.5 | 0.764 | 3.287 | 62.3 | 198.7 | --- | 5.796 | 1.30 | 0.316 | 48.5 | 103.6 | 4.0 | 0.306 |
| 4-1090 | 4-2650 | 0.582 | 252.3 | -26.4 | -1.95 | 1.294 | 64.1 | 0.762 | 3.305 | 60.9 | 199.1 | --- | 5.823 | 1.35 | 0.318 | 48.3 | 104.8 | 4.0 | 0.307 |
| 4-1090 | 4-2670 | 0.572 | 253.4 | -26.7 | -2.02 | 1.295 | 64.7 | 0.760 | 3.324 | 59.4 | 199.5 | --- | 5.850 | 1.40 | 0.321 | 48.2 | 106.1 | 4.0 | 0.309 |
| 4-1090 | 4-2690 | 0.562 | 254.5 | -27.1 | -2.09 | 1.295 | 65.4 | 0.759 | 3.342 | 58.0 | 199.9 | --- | 5.877 | 1.46 | 0.324 | 48.0 | 107.4 | 4.1 | 0.310 |
| 4-1100 | 4-1440 | 1.391 | 221.1 | -15.7 | 0.66 | 1.368 | 19.1 | 0.989 | 9.879 | 143.5 | 166.1 | --- | --- | 1.89 | 0.528 | 170.6 | 99.8 | 3.3 | 0.643 |
| 4-1100 | 4-1460 | 1.363 | 221.2 | -15.8 | 0.53 | 1.350 | 20.0 | 0.983 | 6.663 | 142.8 | 167.0 | --- | --- | 1.77 | 0.481 | 169.3 | 99.1 | 3.3 | 0.601 |
| 4-1100 | 4-1480 | 1.339 | 221.4 | -15.8 | 0.42 | 1.335 | 20.9 | 0.978 | 5.261 | 141.9 | 167.8 | --- | --- | 1.67 | 0.438 | 167.8 | 98.3 | 3.3 | 0.564 |
| 4-1100 | 4-1500 | 1.316 | 221.6 | -15.9 | 0.31 | 1.323 | 21.7 | 0.972 | 4.484 | 141.1 | 168.6 | --- | --- | 1.58 | 0.399 | 166.2 | 97.5 | 3.3 | 0.532 |
| 4-1100 | 4-1520 | 1.296 | 221.9 | -16.1 | 0.22 | 1.313 | 22.6 | 0.967 | 3.997 | 140.2 | 169.3 | --- | --- | 1.49 | 0.364 | 164.4 | 96.6 | 3.3 | 0.502 |
| 4-1100 | 4-1540 | 1.277 | 222.2 | -16.2 | 0.14 | 1.304 | 23.4 | 0.962 | 3.666 | 139.3 | 170.1 | --- | --- | 1.42 | 0.332 | 162.4 | 95.7 | 3.4 | 0.477 |
| 4-1100 | 4-1560 | 1.259 | 222.5 | -16.3 | 0.06 | 1.297 | 24.1 | 0.957 | 3.431 | 138.3 | 170.8 | --- | --- | 1.36 | 0.304 | 160.2 | 94.8 | 3.4 | 0.453 |
| 4-1100 | 4-1580 | 1.243 | 222.9 | -16.4 | -0.01 | 1.291 | 24.9 | 0.952 | 3.257 | 137.4 | 171.5 | --- | --- | 1.30 | 0.278 | 157.6 | 93.9 | 3.4 | 0.433 |
| 4-1100 | 4-1600 | 1.227 | 223.2 | -16.6 | -0.07 | 1.286 | 25.6 | 0.948 | 3.125 | 136.4 | 172.1 | --- | --- | 1.24 | 0.254 | 154.8 | 92.9 | 3.4 | 0.415 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1100 | 4-1620 | 1.212 | 223.6 | -16.7 | -0.13 | 1.282 | 26.4 | 0.943 | 3.023 | 135.4 | 172.8 | --- | --- | 1.20 | 0.234 | 151.6 | 91.9 | 3.4 | 0.398 |
| 4-1100 | 4-1640 | 1.198 | 224.0 | -16.9 | -0.19 | 1.278 | 27.1 | 0.939 | 2.944 | 134.3 | 173.4 | --- | --- | 1.15 | 0.215 | 148.0 | 90.9 | 3.4 | 0.384 |
| 4-1100 | 4-1660 | 1.185 | 224.4 | -17.0 | -0.24 | 1.275 | 27.8 | 0.935 | 2.882 | 133.3 | 174.0 | --- | --- | 1.11 | 0.199 | 144.1 | 89.9 | 3.4 | 0.371 |
| 4-1100 | 4-1680 | 1.172 | 224.8 | -17.2 | -0.29 | 1.273 | 28.5 | 0.931 | 2.833 | 132.2 | 174.7 | --- | --- | 1.08 | 0.184 | 139.7 | 88.9 | 3.4 | 0.360 |
| 4-1100 | 4-1700 | 1.159 | 225.3 | -17.3 | -0.33 | 1.271 | 29.2 | 0.927 | 2.795 | 131.2 | 175.3 | --- | --- | 1.04 | 0.172 | 134.9 | 88.0 | 3.4 | 0.350 |
| 4-1100 | 4-1720 | 1.146 | 225.7 | -17.5 | -0.38 | 1.270 | 29.9 | 0.923 | 2.764 | 130.1 | 175.9 | --- | --- | 1.01 | 0.162 | 129.8 | 87.1 | 3.4 | 0.341 |
| 4-1100 | 4-1740 | 1.134 | 226.2 | -17.6 | -0.42 | 1.268 | 30.6 | 0.919 | 2.741 | 129.0 | 176.4 | --- | --- | 0.99 | 0.154 | 124.4 | 86.2 | 3.4 | 0.333 |
| 4-1100 | 4-1760 | 1.122 | 226.7 | -17.8 | -0.46 | 1.267 | 31.3 | 0.915 | 2.723 | 127.8 | 177.0 | --- | --- | 0.96 | 0.148 | 118.7 | 85.3 | 3.4 | 0.327 |
| 4-1100 | 4-1780 | 1.111 | 227.1 | -17.9 | -0.49 | 1.267 | 32.0 | 0.911 | 2.710 | 126.7 | 177.6 | --- | --- | 0.94 | 0.144 | 113.0 | 84.6 | 3.4 | 0.321 |
| 4-1100 | 4-1800 | 1.099 | 227.6 | -18.1 | -0.53 | 1.266 | 32.6 | 0.907 | 2.701 | 125.6 | 178.2 | --- | --- | 0.92 | 0.141 | 107.3 | 83.8 | 3.4 | 0.316 |
| 4-1100 | 4-1820 | 1.088 | 228.1 | -18.3 | -0.56 | 1.266 | 33.3 | 0.903 | 2.696 | 124.4 | 178.7 | --- | --- | 0.90 | 0.141 | 101.8 | 83.2 | 3.4 | 0.311 |
| 4-1100 | 4-1840 | 1.077 | 228.6 | -18.4 | -0.59 | 1.266 | 34.0 | 0.900 | 2.693 | 123.2 | 179.3 | --- | --- | 0.88 | 0.141 | 96.5 | 82.6 | 3.4 | 0.308 |
| 4-1100 | 4-1860 | 1.066 | 229.1 | -18.6 | -0.63 | 1.266 | 34.6 | 0.896 | 2.693 | 122.1 | 179.8 | --- | --- | 0.86 | 0.143 | 91.5 | 82.0 | 3.4 | 0.304 |
| 4-1100 | 4-1880 | 1.055 | 229.7 | -18.8 | -0.66 | 1.266 | 35.3 | 0.892 | 2.695 | 120.9 | 180.4 | --- | 5.099 | 0.84 | 0.146 | 87.0 | 81.6 | 3.4 | 0.302 |
| 4-1100 | 4-1900 | 1.044 | 230.2 | -18.9 | -0.68 | 1.266 | 35.9 | 0.889 | 2.698 | 119.7 | 180.9 | --- | 5.096 | 0.83 | 0.149 | 82.8 | 81.2 | 3.4 | 0.300 |
| 4-1100 | 4-1920 | 1.033 | 230.7 | -19.1 | -0.71 | 1.266 | 36.6 | 0.885 | 2.704 | 118.5 | 181.4 | --- | 5.097 | 0.82 | 0.153 | 79.1 | 80.9 | 3.4 | 0.298 |
| 4-1100 | 4-1940 | 1.022 | 231.3 | -19.3 | -0.74 | 1.267 | 37.3 | 0.882 | 2.711 | 117.3 | 182.0 | --- | 5.100 | 0.80 | 0.158 | 75.7 | 80.6 | 3.4 | 0.296 |
| 4-1100 | 4-1960 | 1.012 | 231.8 | -19.4 | -0.77 | 1.267 | 37.9 | 0.878 | 2.719 | 116.1 | 182.5 | --- | 5.106 | 0.79 | 0.163 | 72.7 | 80.4 | 3.4 | 0.295 |
| 4-1100 | 4-1980 | 1.001 | 232.4 | -19.6 | -0.79 | 1.268 | 38.6 | 0.875 | 2.728 | 114.8 | 183.0 | --- | 5.114 | 0.78 | 0.168 | 70.0 | 80.3 | 3.4 | 0.294 |
| 4-1100 | 4-2000 | 0.990 | 232.9 | -19.8 | -0.82 | 1.268 | 39.2 | 0.871 | 2.738 | 113.6 | 183.5 | --- | 5.124 | 0.77 | 0.174 | 67.6 | 80.3 | 3.4 | 0.294 |
| 4-1100 | 4-2020 | 0.980 | 233.5 | -19.9 | -0.84 | 1.269 | 39.9 | 0.868 | 2.750 | 112.4 | 184.0 | --- | 5.136 | 0.77 | 0.179 | 65.5 | 80.3 | 3.4 | 0.293 |
| 4-1100 | 4-2040 | 0.969 | 234.1 | -20.1 | -0.87 | 1.269 | 40.5 | 0.864 | 2.762 | 111.1 | 184.6 | --- | 5.149 | 0.76 | 0.185 | 63.6 | 80.4 | 3.5 | 0.293 |
| 4-1100 | 4-2060 | 0.959 | 234.7 | -20.3 | -0.89 | 1.270 | 41.1 | 0.861 | 2.774 | 109.8 | 185.1 | --- | 5.163 | 0.75 | 0.190 | 61.9 | 80.6 | 3.5 | 0.293 |
| 4-1100 | 4-2080 | 0.948 | 235.3 | -20.5 | -0.92 | 1.271 | 41.8 | 0.858 | 2.788 | 108.6 | 185.6 | --- | 5.179 | 0.75 | 0.196 | 60.4 | 80.8 | 3.5 | 0.293 |
| 4-1100 | 4-2100 | 0.938 | 235.9 | -20.6 | -0.94 | 1.271 | 42.4 | 0.855 | 2.801 | 107.3 | 186.1 | --- | 5.195 | 0.74 | 0.202 | 59.0 | 81.1 | 3.5 | 0.294 |
| 4-1100 | 4-2120 | 0.927 | 236.5 | -20.8 | -0.96 | 1.272 | 43.1 | 0.851 | 2.816 | 106.0 | 186.6 | --- | 5.213 | 0.74 | 0.207 | 57.8 | 81.5 | 3.5 | 0.294 |
| 4-1100 | 4-2140 | 0.917 | 237.1 | -21.0 | -0.99 | 1.273 | 43.7 | 0.848 | 2.831 | 104.7 | 187.1 | --- | 5.232 | 0.73 | 0.213 | 56.6 | 81.9 | 3.5 | 0.294 |
| 4-1100 | 4-2160 | 0.906 | 237.7 | -21.1 | -1.01 | 1.274 | 44.4 | 0.845 | 2.846 | 103.4 | 187.5 | --- | 5.251 | 0.73 | 0.218 | 55.6 | 82.3 | 3.5 | 0.295 |
| 4-1100 | 4-2180 | 0.896 | 238.3 | -21.3 | -1.03 | 1.274 | 45.0 | 0.842 | 2.862 | 102.1 | 188.0 | --- | 5.271 | 0.73 | 0.223 | 54.7 | 82.9 | 3.5 | 0.296 |
| 4-1100 | 4-2200 | 0.885 | 239.0 | -21.5 | -1.05 | 1.275 | 45.6 | 0.839 | 2.878 | 100.8 | 188.5 | --- | 5.292 | 0.73 | 0.228 | 53.9 | 83.4 | 3.5 | 0.296 |
| 4-1100 | 4-2220 | 0.875 | 239.6 | -21.7 | -1.08 | 1.276 | 46.3 | 0.836 | 2.894 | 99.5 | 189.0 | --- | 5.313 | 0.73 | 0.233 | 53.2 | 84.0 | 3.5 | 0.297 |
| 4-1100 | 4-2240 | 0.864 | 240.3 | -21.9 | -1.10 | 1.277 | 46.9 | 0.833 | 2.911 | 98.2 | 189.5 | --- | 5.335 | 0.73 | 0.238 | 52.5 | 84.7 | 3.5 | 0.298 |
| 4-1100 | 4-2260 | 0.854 | 241.0 | -22.0 | -1.12 | 1.278 | 47.6 | 0.830 | 2.928 | 96.9 | 190.0 | --- | 5.357 | 0.73 | 0.243 | 51.9 | 85.4 | 3.5 | 0.299 |
| 4-1100 | 4-2280 | 0.843 | 241.6 | -22.2 | -1.15 | 1.278 | 48.2 | 0.827 | 2.945 | 95.5 | 190.4 | --- | 5.380 | 0.73 | 0.248 | 51.3 | 86.1 | 3.5 | 0.300 |
| 4-1100 | 4-2300 | 0.833 | 242.3 | -22.4 | -1.17 | 1.279 | 48.8 | 0.824 | 2.962 | 94.2 | 190.9 | --- | 5.403 | 0.73 | 0.253 | 50.8 | 86.9 | 3.5 | 0.301 |
| 4-1100 | 4-2320 | 0.822 | 243.0 | -22.6 | -1.19 | 1.280 | 49.5 | 0.821 | 2.980 | 92.8 | 191.4 | --- | 5.426 | 0.74 | 0.257 | 50.4 | 87.7 | 3.5 | 0.302 |
| 4-1100 | 4-2340 | 0.812 | 243.8 | -22.7 | -1.22 | 1.281 | 50.1 | 0.818 | 2.998 | 91.5 | 191.8 | --- | 5.450 | 0.74 | 0.261 | 50.0 | 88.5 | 3.6 | 0.303 |
| 4-1100 | 4-2360 | 0.801 | 244.5 | -22.9 | -1.24 | 1.281 | 50.8 | 0.815 | 3.016 | 90.1 | 192.3 | --- | 5.474 | 0.74 | 0.266 | 49.6 | 89.4 | 3.6 | 0.304 |
| 4-1100 | 4-2380 | 0.791 | 245.2 | -23.1 | -1.26 | 1.282 | 51.4 | 0.812 | 3.034 | 88.8 | 192.7 | --- | 5.499 | 0.75 | 0.270 | 49.2 | 90.3 | 3.6 | 0.304 |
| 4-1100 | 4-2400 | 0.780 | 246.0 | -23.3 | -1.29 | 1.283 | 52.0 | 0.810 | 3.052 | 87.4 | 193.2 | --- | 5.523 | 0.76 | 0.274 | 48.9 | 91.3 | 3.6 | 0.305 |
| 4-1100 | 4-2420 | 0.770 | 246.7 | -23.5 | -1.31 | 1.284 | 52.7 | 0.807 | 3.070 | 86.0 | 193.6 | --- | 5.548 | 0.76 | 0.278 | 48.6 | 92.3 | 3.6 | 0.306 |
| 4-1100 | 4-2440 | 0.759 | 247.5 | -23.7 | -1.34 | 1.284 | 53.3 | 0.804 | 3.089 | 84.6 | 194.1 | --- | 5.573 | 0.77 | 0.282 | 48.3 | 93.3 | 3.6 | 0.307 |
| 4-1100 | 4-2460 | 0.749 | 248.3 | -23.9 | -1.37 | 1.285 | 54.0 | 0.802 | 3.107 | 83.2 | 194.5 | --- | 5.599 | 0.78 | 0.285 | 48.1 | 94.3 | 3.6 | 0.308 |
| 4-1100 | 4-2480 | 0.738 | 249.1 | -24.1 | -1.39 | 1.286 | 54.6 | 0.799 | 3.126 | 81.8 | 194.9 | --- | 5.624 | 0.79 | 0.289 | 47.9 | 95.4 | 3.6 | 0.309 |
| 4-1100 | 4-2500 | 0.728 | 249.9 | -24.2 | -1.42 | 1.287 | 55.2 | 0.797 | 3.144 | 80.4 | 195.3 | --- | 5.650 | 0.80 | 0.292 | 47.7 | 96.4 | 3.6 | 0.310 |
| 4-1100 | 4-2520 | 0.717 | 250.8 | -24.4 | -1.45 | 1.287 | 55.9 | 0.794 | 3.163 | 79.0 | 195.8 | --- | 5.676 | 0.81 | 0.296 | 47.5 | 97.5 | 3.6 | 0.311 |
| 4-1100 | 4-2540 | 0.707 | 251.6 | -24.6 | -1.48 | 1.288 | 56.5 | 0.792 | 3.182 | 77.6 | 196.2 | --- | 5.702 | 0.83 | 0.299 | 47.3 | 98.7 | 3.6 | 0.312 |
| 4-1100 | 4-2560 | 0.696 | 252.5 | -24.8 | -1.51 | 1.289 | 57.2 | 0.790 | 3.200 | 76.2 | 196.6 | --- | 5.728 | 0.84 | 0.302 | 47.1 | 99.8 | 3.6 | 0.313 |
| 4-1100 | 4-2580 | 0.686 | 253.4 | -25.0 | -1.54 | 1.290 | 57.8 | 0.787 | 3.219 | 74.8 | 197.0 | --- | 5.754 | 0.86 | 0.305 | 47.0 | 101.0 | 3.6 | 0.314 |
| 4-1100 | 4-2600 | 0.676 | 254.3 | -25.2 | -1.58 | 1.290 | 58.4 | 0.785 | 3.238 | 73.4 | 197.4 | --- | 5.781 | 0.88 | 0.308 | 46.9 | 102.2 | 3.6 | 0.315 |
| 4-1100 | 4-2620 | 0.665 | 255.2 | -25.4 | -1.61 | 1.291 | 59.1 | 0.783 | 3.257 | 71.9 | 197.8 | --- | 5.808 | 0.90 | 0.311 | 46.7 | 103.4 | 3.6 | 0.316 |
| 4-1100 | 4-2640 | 0.655 | 256.2 | -25.7 | -1.65 | 1.292 | 59.7 | 0.781 | 3.276 | 70.5 | 198.2 | --- | 5.834 | 0.92 | 0.314 | 46.6 | 104.6 | 3.6 | 0.317 |
| 4-1100 | 4-2660 | 0.645 | 257.1 | -25.9 | -1.68 | 1.292 | 60.4 | 0.779 | 3.295 | 69.0 | 198.6 | --- | 5.861 | 0.94 | 0.317 | 46.5 | 105.9 | 3.6 | 0.318 |
| 4-1100 | 4-2680 | 0.634 | 258.1 | -26.1 | -1.72 | 1.293 | 61.0 | 0.777 | 3.314 | 67.6 | 199.0 | --- | 5.888 | 0.97 | 0.320 | 46.4 | 107.1 | 3.6 | 0.319 |
| 4-1100 | 4-2700 | 0.624 | 259.2 | -26.3 | -1.77 | 1.294 | 61.7 | 0.775 | 3.333 | 66.1 | 199.3 | --- | 5.915 | 1.00 | 0.322 | 46.3 | 108.4 | 3.6 | 0.320 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1300 | 4-1720 | 0.825 | 250.2 | -21.4 | 0.53 | 1.418 | 125.3 | 0.98544 | 4.967 | 288.9 | 499.4 | 0.654 | --- | 0.82 | 0.605 | 158.6 | 134.9 | 2.5 | 0.624 |
| 4-1300 | 4-1740 | 0.795 | 249.8 | -21.3 | 0.58 | 1.400 | 124.3 | 0.95314 | 4.104 | 289.5 | 501.7 | 0.665 | --- | 0.78 | 0.564 | 156.9 | 135.0 | 2.5 | 0.583 |
| 4-1300 | 4-1760 | 0.770 | 249.5 | -21.2 | 0.62 | 1.386 | 123.4 | 0.924 | 8.919 | 290.1 | 504.0 | 0.674 | --- | 0.74 | 0.526 | 155.1 | 135.1 | 2.5 | 0.545 |
| 4-1300 | 4-1780 | 0.747 | 249.2 | -21.0 | 0.66 | 1.373 | 122.6 | 0.900 | 6.793 | 290.6 | 506.2 | 0.682 | --- | 0.71 | 0.492 | 153.2 | 135.0 | 2.5 | 0.511 |
| 4-1300 | 4-1800 | 0.728 | 249.0 | -20.9 | 0.69 | 1.362 | 121.9 | 0.878 | 5.644 | 291.1 | 508.4 | 0.690 | --- | 0.68 | 0.462 | 151.2 | 134.8 | 2.5 | 0.480 |
| 4-1300 | 4-1820 | 0.711 | 248.7 | -20.8 | 0.73 | 1.352 | 121.3 | 0.859 | 4.929 | 291.5 | 510.5 | 0.696 | --- | 0.66 | 0.433 | 149.2 | 134.6 | 2.5 | 0.451 |
| 4-1300 | 4-1840 | 0.696 | 248.6 | -20.7 | 0.76 | 1.344 | 120.8 | 0.842 | 4.446 | 291.8 | 512.5 | 0.701 | --- | 0.64 | 0.408 | 147.0 | 134.2 | 2.5 | 0.425 |
| 4-1300 | 4-1860 | 0.684 | 248.4 | -20.6 | 0.78 | 1.337 | 120.3 | 0.828 | 4.099 | 292.1 | 514.5 | 0.706 | --- | 0.61 | 0.384 | 144.6 | 133.8 | 2.6 | 0.402 |
| 4-1300 | 4-1880 | 0.673 | 248.3 | -20.5 | 0.81 | 1.331 | 120.0 | 0.815 | 3.841 | 292.3 | 516.4 | 0.710 | --- | 0.60 | 0.363 | 142.2 | 133.2 | 2.6 | 0.380 |
| 4-1300 | 4-1900 | 0.664 | 248.2 | -20.5 | 0.84 | 1.326 | 119.6 | 0.804 | 3.643 | 292.4 | 518.3 | 0.713 | --- | 0.58 | 0.344 | 139.6 | 132.5 | 2.6 | 0.360 |
| 4-1300 | 4-1920 | 0.657 | 248.2 | -20.4 | 0.86 | 1.321 | 119.4 | 0.795 | 3.488 | 292.5 | 520.1 | 0.715 | --- | 0.56 | 0.327 | 137.0 | 131.7 | 2.7 | 0.342 |
| 4-1300 | 4-1940 | 0.651 | 248.2 | -20.4 | 0.88 | 1.317 | 119.2 | 0.787 | 3.364 | 292.5 | 521.9 | 0.717 | --- | 0.55 | 0.311 | 134.2 | 130.8 | 2.7 | 0.326 |
| 4-1300 | 4-1960 | 0.646 | 248.3 | -20.3 | 0.90 | 1.314 | 119.1 | 0.780 | 3.263 | 292.4 | 523.5 | 0.718 | --- | 0.53 | 0.297 | 131.3 | 129.7 | 2.7 | 0.312 |
| 4-1300 | 4-1980 | 0.643 | 248.4 | -20.3 | 0.92 | 1.311 | 119.0 | 0.774 | 3.182 | 292.3 | 525.2 | 0.718 | --- | 0.52 | 0.284 | 128.3 | 128.6 | 2.8 | 0.299 |
| 4-1300 | 4-2000 | 0.640 | 248.5 | -20.3 | 0.94 | 1.308 | 118.9 | 0.770 | 3.114 | 292.1 | 526.7 | 0.717 | --- | 0.51 | 0.272 | 125.2 | 127.3 | 2.8 | 0.287 |
| 4-1300 | 4-2020 | 0.639 | 248.7 | -20.3 | 0.96 | 1.306 | 119.0 | 0.766 | 3.059 | 291.8 | 528.2 | 0.716 | --- | 0.50 | 0.262 | 122.0 | 126.0 | 2.9 | 0.277 |
| 4-1300 | 4-2040 | 0.639 | 248.9 | -20.3 | 0.98 | 1.304 | 119.0 | 0.763 | 3.012 | 291.5 | 529.7 | 0.715 | --- | 0.49 | 0.254 | 118.7 | 124.6 | 2.9 | 0.268 |
| 4-1300 | 4-2060 | 0.639 | 249.2 | -20.3 | 1.00 | 1.302 | 119.1 | 0.760 | 2.974 | 291.1 | 531.1 | 0.713 | --- | 0.48 | 0.246 | 115.4 | 123.1 | 3.0 | 0.260 |
| 4-1300 | 4-2080 | 0.641 | 249.5 | -20.3 | 1.01 | 1.301 | 119.2 | 0.759 | 2.943 | 290.7 | 532.4 | 0.710 | --- | 0.47 | 0.239 | 112.1 | 121.6 | 3.0 | 0.254 |
| 4-1300 | 4-2100 | 0.643 | 249.8 | -20.3 | 1.03 | 1.300 | 119.4 | 0.758 | 2.916 | 290.2 | 533.7 | 0.707 | --- | 0.46 | 0.234 | 108.7 | 120.1 | 3.1 | 0.249 |
| 4-1300 | 4-2120 | 0.646 | 250.2 | -20.3 | 1.05 | 1.299 | 119.6 | 0.757 | 2.895 | 289.7 | 534.9 | 0.703 | --- | 0.46 | 0.229 | 105.4 | 118.6 | 3.1 | 0.244 |
| 4-1300 | 4-2140 | 0.650 | 250.6 | -20.4 | 1.06 | 1.298 | 119.9 | 0.757 | 2.877 | 289.0 | 536.1 | 0.699 | --- | 0.45 | 0.226 | 102.0 | 117.1 | 3.1 | 0.241 |
| 4-1300 | 4-2160 | 0.654 | 251.0 | -20.4 | 1.08 | 1.297 | 120.1 | 0.758 | 2.863 | 288.4 | 537.2 | 0.694 | --- | 0.45 | 0.223 | 98.7 | 115.7 | 3.2 | 0.239 |
| 4-1300 | 4-2180 | 0.659 | 251.4 | -20.5 | 1.09 | 1.297 | 120.4 | 0.759 | 2.853 | 287.7 | 538.2 | 0.689 | --- | 0.44 | 0.221 | 95.5 | 114.3 | 3.2 | 0.238 |
| 4-1300 | 4-2200 | 0.665 | 251.9 | -20.5 | 1.11 | 1.296 | 120.8 | 0.760 | 2.844 | 286.9 | 539.3 | 0.683 | --- | 0.44 | 0.219 | 92.3 | 113.0 | 3.2 | 0.237 |
| 4-1300 | 4-2220 | 0.671 | 252.4 | -20.6 | 1.12 | 1.296 | 121.2 | 0.762 | 2.838 | 286.1 | 540.2 | 0.677 | 5.000 | 0.43 | 0.218 | 89.2 | 111.8 | 3.2 | 0.238 |
| 4-1300 | 4-2240 | 0.678 | 252.9 | -20.7 | 1.13 | 1.296 | 121.6 | 0.764 | 2.834 | 285.2 | 541.2 | 0.670 | 4.999 | 0.43 | 0.218 | 86.2 | 110.7 | 3.3 | 0.239 |
| 4-1300 | 4-2260 | 0.686 | 253.5 | -20.7 | 1.15 | 1.296 | 122.0 | 0.766 | 2.832 | 284.3 | 542.1 | 0.663 | 5.002 | 0.42 | 0.218 | 83.3 | 109.8 | 3.3 | 0.240 |
| 4-1300 | 4-2280 | 0.694 | 254.1 | -20.8 | 1.16 | 1.296 | 122.4 | 0.769 | 2.832 | 283.3 | 542.9 | 0.655 | 5.008 | 0.42 | 0.219 | 80.5 | 108.9 | 3.3 | 0.242 |
| 4-1300 | 4-2300 | 0.702 | 254.6 | -20.9 | 1.17 | 1.296 | 122.9 | 0.772 | 2.832 | 282.3 | 543.7 | 0.647 | 5.018 | 0.42 | 0.220 | 77.8 | 108.2 | 3.3 | 0.245 |
| 4-1300 | 4-2320 | 0.711 | 255.3 | -20.9 | 1.19 | 1.296 | 123.4 | 0.775 | 2.835 | 281.2 | 544.4 | 0.638 | 5.031 | 0.42 | 0.221 | 75.2 | 107.7 | 3.3 | 0.248 |
| 4-1300 | 4-2340 | 0.721 | 255.9 | -21.0 | 1.20 | 1.296 | 124.0 | 0.778 | 2.838 | 280.1 | 545.2 | 0.629 | 5.047 | 0.42 | 0.223 | 72.7 | 107.2 | 3.3 | 0.252 |
| 4-1300 | 4-2360 | 0.731 | 256.5 | -21.1 | 1.21 | 1.296 | 124.5 | 0.782 | 2.842 | 279.0 | 545.8 | 0.620 | 5.065 | 0.42 | 0.224 | 70.3 | 106.9 | 3.3 | 0.256 |
| 4-1300 | 4-2380 | 0.742 | 257.2 | -21.2 | 1.23 | 1.296 | 125.1 | 0.786 | 2.848 | 277.8 | 546.5 | 0.610 | 5.086 | 0.42 | 0.226 | 68.0 | 106.7 | 3.3 | 0.260 |
| 4-1300 | 4-2400 | 0.753 | 257.9 | -21.2 | 1.24 | 1.297 | 125.7 | 0.790 | 2.854 | 276.6 | 547.1 | 0.600 | 5.108 | 0.41 | 0.229 | 65.8 | 106.7 | 3.3 | 0.264 |
| 4-1300 | 4-2420 | 0.764 | 258.6 | -21.3 | 1.25 | 1.297 | 126.4 | 0.794 | 2.861 | 275.3 | 547.6 | 0.589 | 5.133 | 0.42 | 0.231 | 63.7 | 106.8 | 3.3 | 0.269 |
| 4-1300 | 4-2440 | 0.776 | 259.3 | -21.4 | 1.27 | 1.297 | 127.0 | 0.799 | 2.869 | 274.0 | 548.1 | 0.578 | 5.160 | 0.42 | 0.233 | 61.7 | 106.9 | 3.2 | 0.274 |
| 4-1300 | 4-2460 | 0.788 | 260.1 | -21.5 | 1.28 | 1.298 | 127.7 | 0.803 | 2.877 | 272.7 | 548.6 | 0.566 | 5.188 | 0.42 | 0.236 | 59.7 | 107.2 | 3.2 | 0.280 |
| 4-1300 | 4-2480 | 0.801 | 260.8 | -21.5 | 1.29 | 1.298 | 128.4 | 0.808 | 2.886 | 271.3 | 549.1 | 0.554 | 5.218 | 0.42 | 0.239 | 57.8 | 107.6 | 3.2 | 0.285 |
| 4-1300 | 4-2500 | 0.814 | 261.6 | -21.6 | 1.31 | 1.299 | 129.1 | 0.813 | 2.896 | 269.9 | 549.5 | 0.542 | 5.250 | 0.42 | 0.241 | 56.0 | 108.1 | 3.2 | 0.291 |
| 4-1300 | 4-2520 | 0.828 | 262.3 | -21.7 | 1.32 | 1.299 | 129.9 | 0.818 | 2.906 | 268.4 | 549.9 | 0.529 | 5.283 | 0.42 | 0.244 | 54.2 | 108.7 | 3.2 | 0.296 |
| 4-1300 | 4-2540 | 0.842 | 263.1 | -21.7 | 1.34 | 1.300 | 130.7 | 0.823 | 2.917 | 266.9 | 550.2 | 0.516 | 5.317 | 0.43 | 0.247 | 52.5 | 109.3 | 3.2 | 0.302 |
| 4-1300 | 4-2560 | 0.857 | 263.9 | -21.8 | 1.35 | 1.300 | 131.5 | 0.828 | 2.928 | 265.4 | 550.5 | 0.503 | 5.353 | 0.43 | 0.250 | 50.9 | 110.1 | 3.2 | 0.308 |
| 4-1300 | 4-2580 | 0.871 | 264.7 | -21.8 | 1.36 | 1.301 | 132.3 | 0.834 | 2.939 | 263.9 | 550.8 | 0.489 | 5.390 | 0.43 | 0.252 | 49.3 | 110.9 | 3.1 | 0.314 |
| 4-1300 | 4-2600 | 0.887 | 265.5 | -21.9 | 1.38 | 1.301 | 133.1 | 0.839 | 2.951 | 262.3 | 551.0 | 0.475 | 5.428 | 0.44 | 0.255 | 47.7 | 111.8 | 3.1 | 0.320 |
| 4-1300 | 4-2620 | 0.902 | 266.3 | -22.0 | 1.39 | 1.302 | 134.0 | 0.845 | 2.964 | 260.7 | 551.2 | 0.460 | 5.467 | 0.44 | 0.258 | 46.2 | 112.7 | 3.1 | 0.327 |
| 4-1300 | 4-2640 | 0.918 | 267.2 | -22.0 | 1.41 | 1.302 | 134.9 | 0.850 | 2.976 | 259.0 | 551.4 | 0.446 | 5.507 | 0.45 | 0.261 | 44.7 | 113.8 | 3.1 | 0.333 |
| 4-1300 | 4-2660 | 0.935 | 268.0 | -22.0 | 1.42 | 1.303 | 135.8 | 0.856 | 2.989 | 257.3 | 551.6 | 0.431 | 5.548 | 0.46 | 0.263 | 43.3 | 114.8 | 3.0 | 0.340 |
| 4-1300 | 4-2680 | 0.951 | 268.8 | -22.1 | 1.44 | 1.303 | 136.7 | 0.862 | 3.003 | 255.6 | 551.7 | 0.415 | 5.590 | 0.46 | 0.266 | 41.8 | 116.0 | 3.0 | 0.346 |
| 4-1300 | 4-2700 | 0.968 | 269.7 | -22.1 | 1.46 | 1.304 | 137.7 | 0.867 | 3.016 | 253.9 | 551.8 | 0.400 | 5.632 | 0.47 | 0.269 | 40.5 | 117.2 | 3.0 | 0.353 |
| 4-1300 | 4-2720 | 0.986 | 270.6 | -22.2 | 1.47 | 1.305 | 138.6 | 0.873 | 3.030 | 252.1 | 551.8 | 0.384 | 5.676 | 0.48 | 0.272 | 39.1 | 118.4 | 2.9 | 0.359 |
| 4-1300 | 4-2740 | 1.003 | 271.4 | -22.2 | 1.49 | 1.305 | 139.6 | 0.879 | 3.044 | 250.3 | 551.8 | 0.368 | 5.720 | 0.49 | 0.274 | 37.8 | 119.7 | 2.9 | 0.366 |
| 4-1300 | 4-2760 | 1.021 | 272.3 | -22.2 | 1.51 | 1.306 | 140.6 | 0.885 | 3.058 | 248.4 | 551.8 | 0.352 | 5.764 | 0.50 | 0.277 | 36.4 | 121.0 | 2.8 | 0.372 |
| 4-1300 | 4-2780 | 1.040 | 273.2 | -22.2 | 1.53 | 1.306 | 141.7 | 0.891 | 3.073 | 246.6 | 551.8 | 0.336 | 5.810 | 0.51 | 0.279 | 35.1 | 122.4 | 2.8 | 0.379 |
| 4-1300 | 4-2800 | 1.058 | 274.1 | -22.2 | 1.55 | 1.307 | 142.7 | 0.896 | 3.088 | 244.7 | 551.7 | 0.320 | 5.855 | 0.52 | 0.282 | 33.9 | 123.8 | 2.8 | 0.386 |
| 4-1300 | 4-2820 | 1.077 | 275.0 | -22.2 | 1.57 | 1.308 | 143.8 | 0.902 | 3.103 | 242.8 | 551.7 | 0.304 | 5.902 | 0.53 | 0.284 | 32.6 | 125.3 | 2.7 | 0.392 |
| 4-1300 | 4-2840 | 1.096 | 275.9 | -22.2 | 1.59 | 1.308 | 144.9 | 0.908 | 3.118 | 240.8 | 551.5 | 0.288 | 5.949 | 0.55 | 0.287 | 31.4 | 126.8 | 2.7 | 0.399 |
| 4-1300 | 4-2860 | 1.116 | 276.8 | -22.2 | 1.62 | 1.309 | 146.0 | 0.913 | 3.134 | 238.8 | 551.4 | 0.271 | 5.996 | 0.56 | 0.289 | 30.1 | 128.3 | 2.6 | 0.406 |
| 4-1300 | 4-2880 | 1.136 | 277.7 | -22.2 | 1.64 | 1.309 | 147.1 | 0.919 | 3.149 | 236.9 | 551.2 | 0.255 | 6.043 | 0.58 | 0.292 | 28.9 | 129.9 | 2.6 | 0.413 |
| 4-1300 | 4-2900 | 1.155 | 278.6 | -22.2 | 1.67 | 1.310 | 148.3 | 0.924 | 3.165 | 234.8 | 551.0 | 0.239 | 6.091 | 0.60 | 0.294 | 27.7 | 131.5 | 2.5 | 0.419 |
| 4-1310 | 4-1730 | 0.768 | 256.3 | -21.6 | 0.80 | 1.420 | 121.7 | 0.98861 | 4.448 | 296.1 | 497.3 | 0.710 | --- | 0.53 | 0.610 | 157.8 | 136.6 | 2.3 | 0.623 |
| 4-1310 | 4-1750 | 0.739 | 255.9 | -21.4 | 0.84 | 1.403 | 120.7 | 0.95315 | 3.378 | 296.8 | 499.7 | 0.720 | --- | 0.49 | 0.569 | 156.1 | 136.8 | 2.3 | 0.581 |
| 4-1310 | 4-1770 | 0.713 | 255.5 | -21.3 | 0.88 | 1.388 | 119.9 | 0.922 | 9.403 | 297.5 | 502.0 | 0.729 | --- | 0.46 | 0.532 | 154.3 | 136.8 | 2.3 | 0.544 |
| 4-1310 | 4-1790 | 0.691 | 255.1 | -21.2 | 0.91 | 1.375 | 119.1 | 0.896 | 7.066 | 298.1 | 504.3 | 0.737 | --- | 0.43 | 0.498 | 152.5 | 136.8 | 2.3 | 0.509 |
| 4-1310 | 4-1810 | 0.671 | 254.8 | -21.0 | 0.93 | 1.365 | 118.4 | 0.872 | 5.827 | 298.6 | 506.6 | 0.745 | --- | 0.40 | 0.468 | 150.5 | 136.7 | 2.3 | 0.478 |
| 4-1310 | 4-1830 | 0.655 | 254.5 | -20.9 | 0.96 | 1.355 | 117.8 | 0.852 | 5.066 | 299.1 | 508.7 | 0.751 | --- | 0.38 | 0.440 | 148.4 | 136.5 | 2.3 | 0.450 |
| 4-1310 | 4-1850 | 0.640 | 254.2 | -20.8 | 0.98 | 1.347 | 117.2 | 0.834 | 4.555 | 299.5 | 510.9 | 0.756 | --- | 0.36 | 0.415 | 146.2 | 136.2 | 2.3 | 0.424 |
| 4-1310 | 4-1870 | 0.627 | 254.0 | -20.7 | 1.00 | 1.340 | 116.8 | 0.818 | 4.190 | 299.8 | 512.9 | 0.761 | --- | 0.35 | 0.392 | 143.9 | 135.8 | 2.3 | 0.400 |
| 4-1310 | 4-1890 | 0.616 | 253.9 | -20.6 | 1.02 | 1.334 | 116.4 | 0.805 | 3.919 | 300.1 | 514.9 | 0.765 | --- | 0.33 | 0.371 | 141.5 | 135.3 | 2.4 | 0.378 |
| 4-1310 | 4-1910 | 0.607 | 253.8 | -20.6 | 1.04 | 1.328 | 116.1 | 0.793 | 3.712 | 300.3 | 516.9 | 0.768 | --- | 0.32 | 0.352 | 139.0 | 134.6 | 2.4 | 0.358 |
| 4-1310 | 4-1930 | 0.600 | 253.7 | -20.5 | 1.05 | 1.324 | 115.8 | 0.783 | 3.550 | 300.4 | 518.7 | 0.770 | --- | 0.31 | 0.334 | 136.4 | 133.9 | 2.4 | 0.340 |
| 4-1310 | 4-1950 | 0.593 | 253.7 | -20.4 | 1.07 | 1.320 | 115.6 | 0.774 | 3.420 | 300.5 | 520.6 | 0.772 | --- | 0.29 | 0.319 | 133.7 | 133.0 | 2.5 | 0.324 |
| 4-1310 | 4-1970 | 0.588 | 253.7 | -20.4 | 1.08 | 1.316 | 115.4 | 0.767 | 3.315 | 300.5 | 522.3 | 0.773 | --- | 0.28 | 0.305 | 130.9 | 132.0 | 2.5 | 0.309 |
| 4-1310 | 4-1990 | 0.585 | 253.8 | -20.4 | 1.09 | 1.313 | 115.3 | 0.760 | 3.230 | 300.4 | 524.0 | 0.774 | --- | 0.28 | 0.292 | 128.0 | 131.0 | 2.5 | 0.296 |
| 4-1310 | 4-2010 | 0.582 | 253.9 | -20.4 | 1.10 | 1.310 | 115.3 | 0.755 | 3.160 | 300.3 | 525.6 | 0.774 | --- | 0.27 | 0.281 | 125.0 | 129.8 | 2.6 | 0.284 |
| 4-1310 | 4-2030 | 0.580 | 254.0 | -20.3 | 1.12 | 1.308 | 115.3 | 0.751 | 3.102 | 300.1 | 527.2 | 0.773 | --- | 0.26 | 0.271 | 121.9 | 128.5 | 2.6 | 0.273 |
| 4-1310 | 4-2050 | 0.579 | 254.2 | -20.3 | 1.13 | 1.306 | 115.3 | 0.747 | 3.054 | 299.8 | 528.7 | 0.772 | --- | 0.25 | 0.263 | 118.8 | 127.2 | 2.7 | 0.264 |
| 4-1310 | 4-2070 | 0.579 | 254.5 | -20.4 | 1.14 | 1.304 | 115.4 | 0.744 | 3.014 | 299.5 | 530.1 | 0.770 | --- | 0.25 | 0.255 | 115.6 | 125.7 | 2.7 | 0.256 |
| 4-1310 | 4-2090 | 0.580 | 254.8 | -20.4 | 1.15 | 1.303 | 115.5 | 0.742 | 2.980 | 299.1 | 531.5 | 0.768 | --- | 0.24 | 0.249 | 112.5 | 124.3 | 2.8 | 0.249 |
| 4-1310 | 4-2110 | 0.582 | 255.1 | -20.4 | 1.15 | 1.302 | 115.6 | 0.741 | 2.953 | 298.7 | 532.8 | 0.766 | --- | 0.23 | 0.243 | 109.3 | 122.8 | 2.8 | 0.243 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1310 | 4-2130 | 0.584 | 255.5 | -20.4 | 1.16 | 1.301 | 115.8 | 0.740 | 2.930 | 298.2 | 534.1 | 0.763 | --- | 0.23 | 0.239 | 106.1 | 121.2 | 2.8 | 0.239 |
| 4-1310 | 4-2150 | 0.588 | 255.9 | -20.5 | 1.17 | 1.300 | 116.0 | 0.739 | 2.912 | 297.6 | 535.3 | 0.759 | --- | 0.22 | 0.235 | 102.9 | 119.7 | 2.9 | 0.235 |
| 4-1310 | 4-2170 | 0.591 | 256.3 | -20.5 | 1.18 | 1.299 | 116.3 | 0.739 | 2.897 | 297.0 | 536.5 | 0.755 | --- | 0.22 | 0.232 | 99.8 | 118.3 | 2.9 | 0.232 |
| 4-1310 | 4-2190 | 0.596 | 256.7 | -20.6 | 1.19 | 1.299 | 116.5 | 0.740 | 2.885 | 296.3 | 537.6 | 0.751 | --- | 0.22 | 0.230 | 96.8 | 116.9 | 3.0 | 0.230 |
| 4-1310 | 4-2210 | 0.601 | 257.2 | -20.6 | 1.20 | 1.298 | 116.8 | 0.741 | 2.876 | 295.6 | 538.7 | 0.746 | --- | 0.21 | 0.228 | 93.8 | 115.5 | 3.0 | 0.229 |
| 4-1310 | 4-2230 | 0.606 | 257.8 | -20.7 | 1.20 | 1.298 | 117.2 | 0.742 | 2.869 | 294.8 | 539.7 | 0.740 | --- | 0.21 | 0.227 | 90.8 | 114.3 | 3.0 | 0.229 |
| 4-1310 | 4-2250 | 0.612 | 258.3 | -20.7 | 1.21 | 1.298 | 117.5 | 0.744 | 2.864 | 294.0 | 540.7 | 0.735 | 4.994 | 0.21 | 0.227 | 88.0 | 113.1 | 3.0 | 0.230 |
| 4-1310 | 4-2270 | 0.619 | 258.9 | -20.8 | 1.22 | 1.298 | 117.9 | 0.745 | 2.862 | 293.1 | 541.6 | 0.728 | 4.995 | 0.20 | 0.227 | 85.3 | 112.1 | 3.0 | 0.231 |
| 4-1310 | 4-2290 | 0.626 | 259.5 | -20.9 | 1.22 | 1.298 | 118.4 | 0.748 | 2.861 | 292.2 | 542.5 | 0.722 | 4.999 | 0.20 | 0.227 | 82.6 | 111.2 | 3.1 | 0.232 |
| 4-1310 | 4-2310 | 0.634 | 260.1 | -20.9 | 1.23 | 1.298 | 118.8 | 0.750 | 2.861 | 291.3 | 543.4 | 0.715 | 5.007 | 0.20 | 0.228 | 80.1 | 110.4 | 3.1 | 0.235 |
| 4-1310 | 4-2330 | 0.642 | 260.7 | -21.0 | 1.24 | 1.298 | 119.3 | 0.753 | 2.863 | 290.2 | 544.2 | 0.707 | 5.018 | 0.20 | 0.229 | 77.6 | 109.8 | 3.1 | 0.237 |
| 4-1310 | 4-2350 | 0.651 | 261.4 | -21.1 | 1.24 | 1.298 | 119.8 | 0.756 | 2.866 | 289.2 | 544.9 | 0.699 | 5.032 | 0.20 | 0.230 | 75.2 | 109.2 | 3.1 | 0.240 |
| 4-1310 | 4-2370 | 0.660 | 262.1 | -21.1 | 1.25 | 1.298 | 120.3 | 0.759 | 2.870 | 288.1 | 545.7 | 0.691 | 5.048 | 0.19 | 0.232 | 73.0 | 108.8 | 3.1 | 0.244 |
| 4-1310 | 4-2390 | 0.670 | 262.8 | -21.2 | 1.26 | 1.298 | 120.8 | 0.763 | 2.874 | 287.0 | 546.4 | 0.682 | 5.067 | 0.19 | 0.234 | 70.8 | 108.6 | 3.1 | 0.248 |
| 4-1310 | 4-2410 | 0.680 | 263.5 | -21.2 | 1.26 | 1.299 | 121.4 | 0.766 | 2.880 | 285.8 | 547.0 | 0.673 | 5.087 | 0.19 | 0.236 | 68.7 | 108.4 | 3.1 | 0.252 |
| 4-1310 | 4-2430 | 0.690 | 264.2 | -21.3 | 1.27 | 1.299 | 122.0 | 0.770 | 2.887 | 284.6 | 547.6 | 0.664 | 5.110 | 0.19 | 0.238 | 66.6 | 108.4 | 3.1 | 0.256 |
| 4-1310 | 4-2450 | 0.701 | 265.0 | -21.4 | 1.27 | 1.299 | 122.6 | 0.774 | 2.894 | 283.4 | 548.2 | 0.654 | 5.135 | 0.19 | 0.240 | 64.7 | 108.5 | 3.1 | 0.261 |
| 4-1310 | 4-2470 | 0.713 | 265.7 | -21.4 | 1.28 | 1.300 | 123.2 | 0.778 | 2.902 | 282.1 | 548.7 | 0.643 | 5.162 | 0.19 | 0.242 | 62.8 | 108.7 | 3.1 | 0.265 |
| 4-1310 | 4-2490 | 0.724 | 266.5 | -21.5 | 1.29 | 1.300 | 123.9 | 0.783 | 2.911 | 280.8 | 549.3 | 0.632 | 5.190 | 0.19 | 0.245 | 61.0 | 109.0 | 3.1 | 0.270 |
| 4-1310 | 4-2510 | 0.737 | 267.3 | -21.5 | 1.29 | 1.300 | 124.5 | 0.787 | 2.920 | 279.4 | 549.7 | 0.621 | 5.219 | 0.19 | 0.247 | 59.3 | 109.4 | 3.0 | 0.276 |
| 4-1310 | 4-2530 | 0.749 | 268.1 | -21.6 | 1.30 | 1.301 | 125.2 | 0.792 | 2.930 | 278.0 | 550.2 | 0.609 | 5.251 | 0.19 | 0.250 | 57.6 | 109.9 | 3.0 | 0.281 |
| 4-1310 | 4-2550 | 0.762 | 268.9 | -21.6 | 1.30 | 1.301 | 126.0 | 0.797 | 2.940 | 276.6 | 550.6 | 0.597 | 5.283 | 0.19 | 0.252 | 56.0 | 110.5 | 3.0 | 0.286 |
| 4-1310 | 4-2570 | 0.776 | 269.7 | -21.7 | 1.31 | 1.302 | 126.7 | 0.802 | 2.951 | 275.1 | 551.0 | 0.585 | 5.317 | 0.19 | 0.255 | 54.4 | 111.1 | 3.0 | 0.292 |
| 4-1310 | 4-2590 | 0.789 | 270.5 | -21.7 | 1.32 | 1.302 | 127.4 | 0.807 | 2.962 | 273.6 | 551.3 | 0.572 | 5.352 | 0.19 | 0.258 | 52.9 | 111.9 | 3.0 | 0.298 |
| 4-1310 | 4-2610 | 0.803 | 271.3 | -21.8 | 1.32 | 1.303 | 128.2 | 0.812 | 2.974 | 272.1 | 551.6 | 0.559 | 5.388 | 0.19 | 0.260 | 51.4 | 112.7 | 3.0 | 0.303 |
| 4-1310 | 4-2630 | 0.818 | 272.2 | -21.8 | 1.33 | 1.303 | 129.0 | 0.817 | 2.986 | 270.6 | 551.9 | 0.546 | 5.426 | 0.19 | 0.263 | 50.0 | 113.6 | 2.9 | 0.309 |
| 4-1310 | 4-2650 | 0.833 | 273.0 | -21.8 | 1.34 | 1.304 | 129.9 | 0.823 | 2.998 | 269.0 | 552.1 | 0.532 | 5.464 | 0.19 | 0.265 | 48.5 | 114.5 | 2.9 | 0.315 |
| 4-1310 | 4-2670 | 0.848 | 273.9 | -21.8 | 1.34 | 1.304 | 130.7 | 0.828 | 3.010 | 267.4 | 552.4 | 0.518 | 5.503 | 0.20 | 0.268 | 47.2 | 115.5 | 2.9 | 0.321 |
| 4-1310 | 4-2690 | 0.864 | 274.7 | -21.8 | 1.35 | 1.305 | 131.6 | 0.834 | 3.023 | 265.7 | 552.5 | 0.503 | 5.543 | 0.20 | 0.270 | 45.8 | 116.6 | 2.9 | 0.327 |
| 4-1310 | 4-2710 | 0.880 | 275.6 | -21.9 | 1.36 | 1.305 | 132.4 | 0.839 | 3.036 | 264.1 | 552.7 | 0.488 | 5.585 | 0.20 | 0.273 | 44.5 | 117.7 | 2.8 | 0.333 |
| 4-1310 | 4-2730 | 0.896 | 276.5 | -21.9 | 1.36 | 1.306 | 133.3 | 0.845 | 3.050 | 262.3 | 552.8 | 0.473 | 5.627 | 0.20 | 0.275 | 43.2 | 118.9 | 2.8 | 0.339 |
| 4-1310 | 4-2750 | 0.913 | 277.3 | -21.9 | 1.37 | 1.307 | 134.3 | 0.851 | 3.064 | 260.6 | 552.9 | 0.458 | 5.669 | 0.21 | 0.278 | 41.9 | 120.1 | 2.8 | 0.346 |
| 4-1310 | 4-2770 | 0.930 | 278.2 | -21.9 | 1.38 | 1.307 | 135.2 | 0.856 | 3.077 | 258.9 | 553.0 | 0.442 | 5.713 | 0.21 | 0.280 | 40.7 | 121.4 | 2.7 | 0.352 |
| 4-1310 | 4-2790 | 0.947 | 279.1 | -21.9 | 1.38 | 1.308 | 136.2 | 0.862 | 3.092 | 257.1 | 553.0 | 0.426 | 5.757 | 0.21 | 0.283 | 39.5 | 122.7 | 2.7 | 0.358 |
| 4-1310 | 4-2810 | 0.964 | 280.0 | -21.8 | 1.39 | 1.308 | 137.1 | 0.868 | 3.106 | 255.3 | 553.1 | 0.410 | 5.802 | 0.21 | 0.285 | 38.2 | 124.1 | 2.6 | 0.364 |
| 4-1310 | 4-2830 | 0.982 | 280.9 | -21.8 | 1.40 | 1.309 | 138.1 | 0.874 | 3.121 | 253.4 | 553.0 | 0.394 | 5.847 | 0.22 | 0.287 | 37.0 | 125.5 | 2.6 | 0.371 |
| 4-1310 | 4-2850 | 1.000 | 281.8 | -21.8 | 1.41 | 1.309 | 139.1 | 0.880 | 3.135 | 251.6 | 553.0 | 0.378 | 5.893 | 0.22 | 0.290 | 35.9 | 126.9 | 2.6 | 0.377 |
| 4-1310 | 4-2870 | 1.019 | 282.7 | -21.8 | 1.42 | 1.310 | 140.2 | 0.885 | 3.150 | 249.7 | 552.9 | 0.361 | 5.940 | 0.23 | 0.292 | 34.7 | 128.3 | 2.5 | 0.383 |
| 4-1310 | 4-2890 | 1.038 | 283.6 | -21.7 | 1.42 | 1.311 | 141.2 | 0.891 | 3.166 | 247.8 | 552.8 | 0.345 | 5.987 | 0.23 | 0.294 | 33.5 | 129.8 | 2.5 | 0.390 |
| 4-1310 | 4-2910 | 1.057 | 284.5 | -21.7 | 1.43 | 1.311 | 142.3 | 0.897 | 3.181 | 245.8 | 552.7 | 0.328 | 6.034 | 0.24 | 0.296 | 32.4 | 131.4 | 2.4 | 0.396 |
| 4-1320 | 4-1740 | 0.711 | 261.9 | -20.6 | 1.50 | 1.422 | 118.1 | 0.990 | 79.718 | 303.5 | 495.3 | 0.764 | --- | -0.20 | 0.613 | 157.0 | 138.2 | 2.0 | 0.620 |
| 4-1320 | 4-1760 | 0.682 | 261.3 | -20.5 | 1.48 | 1.405 | 117.1 | 0.953 | 16.347 | 304.3 | 497.8 | 0.774 | --- | -0.18 | 0.573 | 155.3 | 138.4 | 2.0 | 0.578 |
| 4-1320 | 4-1780 | 0.657 | 260.8 | -20.4 | 1.46 | 1.390 | 116.2 | 0.920 | 9.764 | 305.0 | 500.3 | 0.783 | --- | -0.16 | 0.536 | 153.5 | 138.5 | 2.0 | 0.541 |
| 4-1320 | 4-1800 | 0.634 | 260.4 | -20.3 | 1.44 | 1.377 | 115.5 | 0.891 | 7.271 | 305.7 | 502.6 | 0.790 | --- | -0.14 | 0.503 | 151.7 | 138.5 | 2.0 | 0.507 |
| 4-1320 | 4-1820 | 0.615 | 260.0 | -20.2 | 1.43 | 1.366 | 114.8 | 0.866 | 5.968 | 306.3 | 505.0 | 0.797 | --- | -0.13 | 0.472 | 149.7 | 138.4 | 2.0 | 0.476 |
| 4-1320 | 4-1840 | 0.598 | 259.6 | -20.2 | 1.42 | 1.357 | 114.2 | 0.845 | 5.172 | 306.9 | 507.2 | 0.803 | --- | -0.12 | 0.445 | 147.6 | 138.2 | 2.0 | 0.447 |
| 4-1320 | 4-1860 | 0.584 | 259.3 | -20.1 | 1.41 | 1.349 | 113.6 | 0.826 | 4.641 | 307.3 | 509.4 | 0.808 | --- | -0.11 | 0.420 | 145.5 | 138.0 | 2.0 | 0.421 |
| 4-1320 | 4-1880 | 0.571 | 259.0 | -20.0 | 1.40 | 1.341 | 113.2 | 0.809 | 4.263 | 307.7 | 511.5 | 0.813 | --- | -0.10 | 0.397 | 143.2 | 137.6 | 2.0 | 0.397 |
| 4-1320 | 4-1900 | 0.560 | 258.7 | -20.0 | 1.39 | 1.335 | 112.8 | 0.795 | 3.983 | 308.1 | 513.6 | 0.816 | --- | -0.10 | 0.376 | 140.8 | 137.1 | 2.0 | 0.375 |
| 4-1320 | 4-1920 | 0.551 | 258.6 | -19.9 | 1.39 | 1.330 | 112.4 | 0.783 | 3.769 | 308.3 | 515.6 | 0.819 | --- | -0.09 | 0.358 | 138.4 | 136.5 | 2.1 | 0.356 |
| 4-1320 | 4-1940 | 0.543 | 258.4 | -19.9 | 1.38 | 1.325 | 112.2 | 0.772 | 3.601 | 308.5 | 517.5 | 0.822 | --- | -0.09 | 0.341 | 135.8 | 135.8 | 2.1 | 0.337 |
| 4-1320 | 4-1960 | 0.537 | 258.4 | -19.9 | 1.37 | 1.321 | 112.0 | 0.762 | 3.468 | 308.7 | 519.4 | 0.824 | --- | -0.08 | 0.326 | 133.1 | 135.0 | 2.1 | 0.321 |
| 4-1320 | 4-1980 | 0.532 | 258.4 | -19.8 | 1.37 | 1.318 | 111.8 | 0.754 | 3.360 | 308.7 | 521.2 | 0.825 | --- | -0.08 | 0.312 | 130.4 | 134.1 | 2.1 | 0.306 |
| 4-1320 | 4-2000 | 0.528 | 258.4 | -19.8 | 1.37 | 1.315 | 111.7 | 0.748 | 3.272 | 308.7 | 523.0 | 0.826 | --- | -0.07 | 0.299 | 127.5 | 133.1 | 2.2 | 0.292 |
| 4-1320 | 4-2020 | 0.525 | 258.5 | -19.8 | 1.36 | 1.312 | 111.6 | 0.742 | 3.199 | 308.6 | 524.6 | 0.826 | --- | -0.07 | 0.289 | 124.6 | 131.9 | 2.2 | 0.280 |
| 4-1320 | 4-2040 | 0.523 | 258.6 | -19.9 | 1.36 | 1.310 | 111.6 | 0.737 | 3.140 | 308.5 | 526.2 | 0.826 | --- | -0.07 | 0.279 | 121.7 | 130.7 | 2.3 | 0.270 |
| 4-1320 | 4-2060 | 0.522 | 258.8 | -19.9 | 1.36 | 1.308 | 111.6 | 0.733 | 3.090 | 308.2 | 527.8 | 0.825 | --- | -0.07 | 0.270 | 118.7 | 129.4 | 2.3 | 0.260 |
| 4-1320 | 4-2080 | 0.521 | 259.0 | -19.9 | 1.35 | 1.306 | 111.7 | 0.730 | 3.048 | 308.0 | 529.3 | 0.824 | --- | -0.06 | 0.263 | 115.7 | 128.0 | 2.4 | 0.252 |
| 4-1320 | 4-2100 | 0.522 | 259.3 | -19.9 | 1.35 | 1.305 | 111.8 | 0.727 | 3.014 | 307.6 | 530.7 | 0.822 | --- | -0.06 | 0.257 | 112.6 | 126.6 | 2.4 | 0.245 |
| 4-1320 | 4-2120 | 0.523 | 259.7 | -20.0 | 1.35 | 1.304 | 111.9 | 0.725 | 2.986 | 307.2 | 532.1 | 0.820 | --- | -0.06 | 0.251 | 109.6 | 125.1 | 2.5 | 0.239 |
| 4-1320 | 4-2140 | 0.525 | 260.0 | -20.0 | 1.34 | 1.302 | 112.0 | 0.724 | 2.962 | 306.8 | 533.4 | 0.817 | --- | -0.06 | 0.247 | 106.5 | 123.6 | 2.5 | 0.234 |
| 4-1320 | 4-2160 | 0.528 | 260.5 | -20.1 | 1.34 | 1.302 | 112.2 | 0.723 | 2.943 | 306.2 | 534.7 | 0.815 | --- | -0.06 | 0.243 | 103.5 | 122.1 | 2.5 | 0.229 |
| 4-1320 | 4-2180 | 0.531 | 260.9 | -20.1 | 1.34 | 1.301 | 112.5 | 0.723 | 2.927 | 305.7 | 535.9 | 0.811 | --- | -0.05 | 0.240 | 100.6 | 120.6 | 2.6 | 0.226 |
| 4-1320 | 4-2200 | 0.535 | 261.4 | -20.2 | 1.34 | 1.300 | 112.7 | 0.723 | 2.915 | 305.0 | 537.0 | 0.808 | --- | -0.05 | 0.238 | 97.7 | 119.2 | 2.6 | 0.224 |
| 4-1320 | 4-2220 | 0.539 | 261.9 | -20.3 | 1.34 | 1.300 | 113.0 | 0.723 | 2.905 | 304.3 | 538.2 | 0.803 | --- | -0.05 | 0.236 | 94.8 | 117.8 | 2.7 | 0.223 |
| 4-1320 | 4-2240 | 0.544 | 262.5 | -20.3 | 1.33 | 1.300 | 113.3 | 0.724 | 2.898 | 303.6 | 539.2 | 0.799 | --- | -0.05 | 0.235 | 92.0 | 116.5 | 2.7 | 0.222 |
| 4-1320 | 4-2260 | 0.549 | 263.1 | -20.4 | 1.33 | 1.299 | 113.6 | 0.725 | 2.893 | 302.8 | 540.2 | 0.794 | 4.991 | -0.05 | 0.235 | 89.4 | 115.4 | 2.7 | 0.222 |
| 4-1320 | 4-2280 | 0.555 | 263.7 | -20.5 | 1.33 | 1.299 | 114.0 | 0.727 | 2.889 | 302.0 | 541.2 | 0.789 | 4.990 | -0.05 | 0.234 | 86.8 | 114.3 | 2.7 | 0.223 |
| 4-1320 | 4-2300 | 0.562 | 264.3 | -20.5 | 1.33 | 1.299 | 114.4 | 0.729 | 2.888 | 301.1 | 542.2 | 0.783 | 4.993 | -0.05 | 0.235 | 84.2 | 113.3 | 2.8 | 0.224 |
| 4-1320 | 4-2320 | 0.569 | 265.0 | -20.6 | 1.33 | 1.299 | 114.8 | 0.731 | 2.888 | 300.2 | 543.1 | 0.777 | 4.999 | -0.05 | 0.235 | 81.8 | 112.4 | 2.8 | 0.226 |
| 4-1320 | 4-2340 | 0.576 | 265.7 | -20.7 | 1.32 | 1.299 | 115.2 | 0.733 | 2.889 | 299.3 | 543.9 | 0.771 | 5.008 | -0.05 | 0.236 | 79.5 | 111.7 | 2.8 | 0.228 |
| 4-1320 | 4-2360 | 0.584 | 266.4 | -20.7 | 1.32 | 1.299 | 115.7 | 0.736 | 2.892 | 298.3 | 544.7 | 0.764 | 5.020 | -0.05 | 0.237 | 77.2 | 111.1 | 2.8 | 0.231 |
| 4-1320 | 4-2380 | 0.592 | 267.1 | -20.8 | 1.32 | 1.300 | 116.2 | 0.739 | 2.895 | 297.2 | 545.5 | 0.757 | 5.034 | -0.04 | 0.239 | 75.1 | 110.7 | 2.8 | 0.234 |
| 4-1320 | 4-2400 | 0.601 | 267.8 | -20.9 | 1.32 | 1.300 | 116.7 | 0.742 | 2.900 | 296.1 | 546.2 | 0.749 | 5.051 | -0.04 | 0.240 | 73.0 | 110.3 | 2.8 | 0.237 |
| 4-1320 | 4-2420 | 0.610 | 268.6 | -20.9 | 1.32 | 1.300 | 117.2 | 0.745 | 2.906 | 295.0 | 546.9 | 0.741 | 5.070 | -0.04 | 0.242 | 71.0 | 110.1 | 2.8 | 0.241 |
| 4-1320 | 4-2440 | 0.620 | 269.4 | -21.0 | 1.32 | 1.300 | 117.7 | 0.748 | 2.912 | 293.8 | 547.6 | 0.733 | 5.091 | -0.04 | 0.244 | 69.1 | 110.0 | 2.8 | 0.245 |
| 4-1320 | 4-2460 | 0.630 | 270.2 | -21.1 | 1.32 | 1.301 | 118.3 | 0.752 | 2.919 | 292.6 | 548.2 | 0.724 | 5.114 | -0.04 | 0.246 | 67.2 | 110.0 | 2.8 | 0.249 |
| 4-1320 | 4-2480 | 0.640 | 271.0 | -21.1 | 1.31 | 1.301 | 118.9 | 0.756 | 2.927 | 291.4 | 548.8 | 0.715 | 5.139 | -0.04 | 0.248 | 65.4 | 110.2 | 2.8 | 0.253 |
| 4-1320 | 4-2500 | 0.651 | 271.8 | -21.2 | 1.31 | 1.301 | 119.5 | 0.760 | 2.935 | 290.1 | 549.4 | 0.705 | 5.165 | -0.04 | 0.251 | 63.7 | 110.4 | 2.8 | 0.258 |
| 4-1320 | 4-2520 | 0.662 | 272.6 | -21.2 | 1.31 | 1.302 | 120.1 | 0.764 | 2.944 | 288.8 | 549.9 | 0.695 | 5.193 | -0.04 | 0.253 | 62.1 | 110.7 | 2.8 | 0.263 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1320 | 4-2540 | 0.674 | 273.4 | -21.2 | 1.31 | 1.302 | 120.8 | 0.768 | 2.954 | 287.5 | 550.4 | 0.685 | 5.223 | -0.04 | 0.255 | 60.5 | 111.1 | 2.8 | 0.268 |
| 4-1320 | 4-2560 | 0.686 | 274.3 | -21.3 | 1.31 | 1.303 | 121.4 | 0.773 | 2.964 | 286.1 | 550.9 | 0.674 | 5.253 | -0.04 | 0.258 | 58.9 | 111.6 | 2.8 | 0.273 |
| 4-1320 | 4-2580 | 0.698 | 275.1 | -21.3 | 1.31 | 1.303 | 122.1 | 0.777 | 2.974 | 284.7 | 551.3 | 0.663 | 5.285 | -0.04 | 0.260 | 57.4 | 112.2 | 2.8 | 0.278 |
| 4-1320 | 4-2600 | 0.711 | 276.0 | -21.3 | 1.31 | 1.303 | 122.8 | 0.782 | 2.985 | 283.3 | 551.7 | 0.651 | 5.319 | -0.04 | 0.263 | 56.0 | 112.9 | 2.8 | 0.283 |
| 4-1320 | 4-2620 | 0.724 | 276.8 | -21.3 | 1.30 | 1.304 | 123.5 | 0.787 | 2.996 | 281.8 | 552.1 | 0.639 | 5.353 | -0.04 | 0.265 | 54.5 | 113.7 | 2.8 | 0.288 |
| 4-1320 | 4-2640 | 0.738 | 277.7 | -21.3 | 1.30 | 1.304 | 124.3 | 0.792 | 3.008 | 280.3 | 552.4 | 0.627 | 5.389 | -0.04 | 0.267 | 53.2 | 114.5 | 2.8 | 0.294 |
| 4-1320 | 4-2660 | 0.751 | 278.6 | -21.4 | 1.30 | 1.305 | 125.1 | 0.797 | 3.020 | 278.8 | 552.7 | 0.614 | 5.425 | -0.04 | 0.270 | 51.8 | 115.4 | 2.7 | 0.299 |
| 4-1320 | 4-2680 | 0.766 | 279.5 | -21.4 | 1.30 | 1.305 | 125.8 | 0.802 | 3.032 | 277.3 | 553.0 | 0.601 | 5.463 | -0.04 | 0.272 | 50.5 | 116.3 | 2.7 | 0.305 |
| 4-1320 | 4-2700 | 0.780 | 280.3 | -21.4 | 1.30 | 1.306 | 126.6 | 0.807 | 3.045 | 275.7 | 553.2 | 0.588 | 5.502 | -0.04 | 0.275 | 49.3 | 117.3 | 2.7 | 0.310 |
| 4-1320 | 4-2720 | 0.795 | 281.2 | -21.3 | 1.30 | 1.307 | 127.5 | 0.812 | 3.057 | 274.1 | 553.5 | 0.574 | 5.541 | -0.04 | 0.277 | 48.0 | 118.4 | 2.7 | 0.316 |
| 4-1320 | 4-2740 | 0.810 | 282.1 | -21.3 | 1.30 | 1.307 | 128.3 | 0.818 | 3.071 | 272.4 | 553.7 | 0.560 | 5.581 | -0.04 | 0.279 | 46.8 | 119.5 | 2.6 | 0.322 |
| 4-1320 | 4-2760 | 0.826 | 283.0 | -21.3 | 1.30 | 1.308 | 129.1 | 0.823 | 3.084 | 270.8 | 553.8 | 0.545 | 5.623 | -0.04 | 0.282 | 45.6 | 120.7 | 2.6 | 0.328 |
| 4-1320 | 4-2780 | 0.842 | 283.9 | -21.3 | 1.29 | 1.308 | 130.0 | 0.829 | 3.098 | 269.1 | 554.0 | 0.531 | 5.665 | -0.04 | 0.284 | 44.4 | 121.9 | 2.6 | 0.333 |
| 4-1320 | 4-2800 | 0.858 | 284.8 | -21.2 | 1.29 | 1.309 | 130.9 | 0.834 | 3.111 | 267.4 | 554.1 | 0.516 | 5.707 | -0.04 | 0.286 | 43.2 | 123.1 | 2.5 | 0.339 |
| 4-1320 | 4-2820 | 0.874 | 285.7 | -21.2 | 1.29 | 1.309 | 131.8 | 0.840 | 3.125 | 265.6 | 554.2 | 0.500 | 5.751 | -0.04 | 0.289 | 42.1 | 124.4 | 2.5 | 0.345 |
| 4-1320 | 4-2840 | 0.891 | 286.6 | -21.2 | 1.29 | 1.310 | 132.8 | 0.846 | 3.140 | 263.9 | 554.2 | 0.485 | 5.795 | -0.04 | 0.291 | 41.0 | 125.8 | 2.5 | 0.351 |
| 4-1320 | 4-2860 | 0.908 | 287.5 | -21.1 | 1.29 | 1.310 | 133.7 | 0.851 | 3.154 | 262.1 | 554.2 | 0.469 | 5.840 | -0.05 | 0.293 | 39.8 | 127.1 | 2.4 | 0.357 |
| 4-1320 | 4-2880 | 0.925 | 288.4 | -21.1 | 1.29 | 1.311 | 134.7 | 0.857 | 3.169 | 260.3 | 554.3 | 0.453 | 5.885 | -0.05 | 0.295 | 38.7 | 128.5 | 2.4 | 0.363 |
| 4-1320 | 4-2900 | 0.943 | 289.3 | -21.0 | 1.28 | 1.311 | 135.6 | 0.863 | 3.184 | 258.4 | 554.2 | 0.436 | 5.931 | -0.05 | 0.297 | 37.6 | 130.0 | 2.3 | 0.369 |
| 4-1320 | 4-2920 | 0.961 | 290.2 | -20.9 | 1.28 | 1.312 | 136.6 | 0.869 | 3.199 | 256.6 | 554.2 | 0.420 | 5.977 | -0.05 | 0.299 | 36.5 | 131.4 | 2.3 | 0.375 |
| 4-1330 | 4-1750 | 0.668 | 267.6 | -8.7 | 7.55 | 1.422 | 114.3 | 0.991 | 88.515 | 311.2 | 493.7 | 0.816 | --- | -6.27 | 0.614 | 156.2 | 139.5 | -0.5 | 0.616 |
| 4-1330 | 4-1770 | 0.631 | 266.4 | -13.1 | 5.00 | 1.405 | 113.3 | 0.951 | 16.787 | 312.0 | 496.2 | 0.825 | --- | -3.73 | 0.574 | 154.5 | 139.8 | 0.4 | 0.574 |
| 4-1330 | 4-1790 | 0.603 | 265.6 | -15.0 | 3.92 | 1.390 | 112.5 | 0.916 | 9.948 | 312.9 | 498.7 | 0.833 | --- | -2.65 | 0.538 | 152.7 | 139.9 | 0.8 | 0.537 |
| 4-1330 | 4-1810 | 0.580 | 264.9 | -16.0 | 3.32 | 1.378 | 111.7 | 0.886 | 7.385 | 313.6 | 501.2 | 0.840 | --- | -2.06 | 0.505 | 150.9 | 139.9 | 1.0 | 0.503 |
| 4-1330 | 4-1830 | 0.561 | 264.3 | -16.6 | 2.94 | 1.367 | 111.0 | 0.860 | 6.052 | 314.3 | 503.6 | 0.846 | --- | -1.68 | 0.475 | 148.9 | 139.9 | 1.1 | 0.472 |
| 4-1330 | 4-1850 | 0.544 | 263.8 | -17.1 | 2.67 | 1.357 | 110.4 | 0.837 | 5.240 | 314.9 | 505.9 | 0.852 | --- | -1.42 | 0.448 | 146.9 | 139.7 | 1.2 | 0.443 |
| 4-1330 | 4-1870 | 0.529 | 263.4 | -17.3 | 2.48 | 1.349 | 109.9 | 0.818 | 4.698 | 315.4 | 508.2 | 0.856 | --- | -1.23 | 0.423 | 144.7 | 139.5 | 1.3 | 0.418 |
| 4-1330 | 4-1890 | 0.517 | 263.0 | -17.6 | 2.33 | 1.342 | 109.5 | 0.801 | 4.313 | 315.9 | 510.4 | 0.860 | --- | -1.09 | 0.401 | 142.5 | 139.2 | 1.3 | 0.394 |
| 4-1330 | 4-1910 | 0.506 | 262.6 | -17.7 | 2.21 | 1.336 | 109.1 | 0.786 | 4.028 | 316.3 | 512.5 | 0.864 | --- | -0.97 | 0.381 | 140.1 | 138.7 | 1.4 | 0.372 |
| 4-1330 | 4-1930 | 0.497 | 262.4 | -17.9 | 2.12 | 1.331 | 108.8 | 0.773 | 3.810 | 316.6 | 514.6 | 0.866 | --- | -0.88 | 0.362 | 137.7 | 138.2 | 1.4 | 0.352 |
| 4-1330 | 4-1950 | 0.489 | 262.2 | -18.0 | 2.04 | 1.326 | 108.5 | 0.761 | 3.640 | 316.9 | 516.6 | 0.869 | --- | -0.81 | 0.345 | 135.1 | 137.5 | 1.5 | 0.334 |
| 4-1330 | 4-1970 | 0.483 | 262.0 | -18.1 | 1.97 | 1.322 | 108.3 | 0.752 | 3.504 | 317.0 | 518.5 | 0.870 | --- | -0.74 | 0.330 | 132.5 | 136.7 | 1.5 | 0.318 |
| 4-1330 | 4-1990 | 0.478 | 262.0 | -18.2 | 1.91 | 1.319 | 108.1 | 0.743 | 3.395 | 317.1 | 520.3 | 0.872 | --- | -0.69 | 0.317 | 129.8 | 135.8 | 1.6 | 0.303 |
| 4-1330 | 4-2010 | 0.473 | 262.0 | -18.3 | 1.86 | 1.316 | 108.0 | 0.736 | 3.305 | 317.2 | 522.1 | 0.872 | --- | -0.64 | 0.305 | 127.0 | 134.8 | 1.6 | 0.289 |
| 4-1330 | 4-2030 | 0.470 | 262.0 | -18.4 | 1.82 | 1.313 | 107.9 | 0.730 | 3.231 | 317.1 | 523.8 | 0.873 | --- | -0.61 | 0.294 | 124.2 | 133.8 | 1.7 | 0.277 |
| 4-1330 | 4-2050 | 0.468 | 262.1 | -18.5 | 1.79 | 1.311 | 107.9 | 0.725 | 3.171 | 317.0 | 525.5 | 0.873 | --- | -0.57 | 0.285 | 121.3 | 132.6 | 1.7 | 0.266 |
| 4-1330 | 4-2070 | 0.467 | 262.3 | -18.6 | 1.74 | 1.309 | 107.9 | 0.720 | 3.120 | 316.8 | 527.1 | 0.872 | --- | -0.54 | 0.276 | 118.4 | 131.3 | 1.8 | 0.256 |
| 4-1330 | 4-2090 | 0.466 | 262.6 | -18.7 | 1.71 | 1.307 | 108.0 | 0.717 | 3.078 | 316.6 | 528.6 | 0.871 | --- | -0.51 | 0.269 | 115.5 | 129.9 | 1.8 | 0.248 |
| 4-1330 | 4-2110 | 0.466 | 262.9 | -18.8 | 1.68 | 1.306 | 108.0 | 0.714 | 3.043 | 316.3 | 530.1 | 0.870 | --- | -0.49 | 0.263 | 112.6 | 128.5 | 1.9 | 0.241 |
| 4-1330 | 4-2130 | 0.467 | 263.2 | -18.9 | 1.66 | 1.305 | 108.1 | 0.712 | 3.014 | 315.9 | 531.5 | 0.868 | --- | -0.47 | 0.258 | 109.6 | 127.1 | 2.0 | 0.234 |
| 4-1330 | 4-2150 | 0.469 | 263.6 | -19.0 | 1.63 | 1.303 | 108.3 | 0.710 | 2.990 | 315.5 | 532.8 | 0.866 | --- | -0.45 | 0.253 | 106.7 | 125.6 | 2.0 | 0.229 |
| 4-1330 | 4-2170 | 0.471 | 264.0 | -19.1 | 1.61 | 1.303 | 108.5 | 0.709 | 2.970 | 315.0 | 534.1 | 0.864 | --- | -0.43 | 0.250 | 103.8 | 124.1 | 2.1 | 0.225 |
| 4-1330 | 4-2190 | 0.473 | 264.5 | -19.2 | 1.59 | 1.302 | 108.7 | 0.708 | 2.954 | 314.4 | 535.4 | 0.861 | --- | -0.42 | 0.247 | 101.0 | 122.6 | 2.1 | 0.221 |
| 4-1330 | 4-2210 | 0.477 | 265.1 | -19.3 | 1.57 | 1.301 | 108.9 | 0.708 | 2.941 | 313.8 | 536.6 | 0.858 | --- | -0.40 | 0.245 | 98.2 | 121.2 | 2.2 | 0.219 |
| 4-1330 | 4-2230 | 0.481 | 265.6 | -19.4 | 1.55 | 1.301 | 109.2 | 0.708 | 2.931 | 313.2 | 537.7 | 0.855 | --- | -0.39 | 0.243 | 95.5 | 119.8 | 2.2 | 0.217 |
| 4-1330 | 4-2250 | 0.485 | 266.3 | -19.5 | 1.54 | 1.301 | 109.5 | 0.709 | 2.923 | 312.5 | 538.8 | 0.851 | --- | -0.38 | 0.242 | 92.9 | 118.5 | 2.3 | 0.216 |
| 4-1330 | 4-2270 | 0.490 | 266.9 | -19.6 | 1.52 | 1.300 | 109.8 | 0.710 | 2.918 | 311.8 | 539.9 | 0.847 | --- | -0.37 | 0.241 | 90.3 | 117.3 | 2.3 | 0.216 |
| 4-1330 | 4-2290 | 0.495 | 267.6 | -19.7 | 1.51 | 1.300 | 110.1 | 0.711 | 2.915 | 311.0 | 540.9 | 0.843 | 4.987 | -0.36 | 0.241 | 87.8 | 116.2 | 2.4 | 0.216 |
| 4-1330 | 4-2310 | 0.501 | 268.3 | -19.8 | 1.49 | 1.300 | 110.5 | 0.712 | 2.913 | 310.1 | 541.9 | 0.838 | 4.988 | -0.35 | 0.241 | 85.4 | 115.2 | 2.4 | 0.217 |
| 4-1330 | 4-2330 | 0.507 | 269.0 | -19.9 | 1.48 | 1.300 | 110.9 | 0.714 | 2.913 | 309.2 | 542.8 | 0.833 | 4.992 | -0.34 | 0.242 | 83.1 | 114.3 | 2.4 | 0.218 |
| 4-1330 | 4-2350 | 0.514 | 269.8 | -20.0 | 1.46 | 1.300 | 111.3 | 0.716 | 2.914 | 308.3 | 543.7 | 0.828 | 5.000 | -0.33 | 0.243 | 80.9 | 113.5 | 2.5 | 0.220 |
| 4-1330 | 4-2370 | 0.521 | 270.5 | -20.1 | 1.45 | 1.300 | 111.7 | 0.718 | 2.916 | 307.3 | 544.5 | 0.822 | 5.011 | -0.32 | 0.244 | 78.8 | 112.9 | 2.5 | 0.223 |
| 4-1330 | 4-2390 | 0.528 | 271.3 | -20.2 | 1.44 | 1.300 | 112.1 | 0.721 | 2.920 | 306.3 | 545.3 | 0.816 | 5.024 | -0.32 | 0.245 | 76.7 | 112.4 | 2.5 | 0.225 |
| 4-1330 | 4-2410 | 0.536 | 272.2 | -20.2 | 1.43 | 1.301 | 112.6 | 0.723 | 2.924 | 305.3 | 546.1 | 0.809 | 5.039 | -0.31 | 0.247 | 74.7 | 112.0 | 2.5 | 0.228 |
| 4-1330 | 4-2430 | 0.545 | 273.0 | -20.3 | 1.42 | 1.301 | 113.1 | 0.726 | 2.929 | 304.2 | 546.8 | 0.802 | 5.057 | -0.31 | 0.248 | 72.8 | 111.7 | 2.5 | 0.232 |
| 4-1330 | 4-2450 | 0.553 | 273.8 | -20.4 | 1.41 | 1.301 | 113.6 | 0.729 | 2.936 | 303.1 | 547.5 | 0.795 | 5.076 | -0.30 | 0.250 | 71.0 | 111.5 | 2.6 | 0.235 |
| 4-1330 | 4-2470 | 0.562 | 274.7 | -20.4 | 1.40 | 1.301 | 114.1 | 0.732 | 2.942 | 301.9 | 548.2 | 0.787 | 5.098 | -0.30 | 0.252 | 69.2 | 111.5 | 2.6 | 0.239 |
| 4-1330 | 4-2490 | 0.572 | 275.6 | -20.5 | 1.39 | 1.302 | 114.7 | 0.736 | 2.950 | 300.7 | 548.8 | 0.780 | 5.121 | -0.29 | 0.254 | 67.5 | 111.6 | 2.6 | 0.243 |
| 4-1330 | 4-2510 | 0.582 | 276.4 | -20.5 | 1.38 | 1.302 | 115.3 | 0.739 | 2.958 | 299.5 | 549.4 | 0.771 | 5.145 | -0.29 | 0.256 | 65.9 | 111.7 | 2.6 | 0.247 |
| 4-1330 | 4-2530 | 0.592 | 277.3 | -20.6 | 1.37 | 1.303 | 115.9 | 0.743 | 2.967 | 298.2 | 550.0 | 0.763 | 5.172 | -0.29 | 0.258 | 64.3 | 112.0 | 2.6 | 0.252 |
| 4-1330 | 4-2550 | 0.603 | 278.2 | -20.6 | 1.36 | 1.303 | 116.5 | 0.747 | 2.976 | 296.9 | 550.5 | 0.753 | 5.199 | -0.28 | 0.260 | 62.8 | 112.4 | 2.6 | 0.256 |
| 4-1330 | 4-2570 | 0.614 | 279.1 | -20.6 | 1.35 | 1.303 | 117.1 | 0.751 | 2.986 | 295.6 | 551.0 | 0.744 | 5.229 | -0.28 | 0.263 | 61.3 | 112.8 | 2.6 | 0.261 |
| 4-1330 | 4-2590 | 0.625 | 280.0 | -20.6 | 1.34 | 1.304 | 117.7 | 0.755 | 2.997 | 294.2 | 551.5 | 0.734 | 5.259 | -0.28 | 0.265 | 59.9 | 113.4 | 2.6 | 0.266 |
| 4-1330 | 4-2610 | 0.637 | 280.9 | -20.7 | 1.33 | 1.304 | 118.4 | 0.759 | 3.007 | 292.9 | 552.0 | 0.724 | 5.291 | -0.28 | 0.267 | 58.5 | 114.0 | 2.6 | 0.270 |
| 4-1330 | 4-2630 | 0.649 | 281.9 | -20.7 | 1.32 | 1.305 | 119.1 | 0.764 | 3.018 | 291.4 | 552.4 | 0.713 | 5.323 | -0.28 | 0.270 | 57.2 | 114.7 | 2.6 | 0.275 |
| 4-1330 | 4-2650 | 0.661 | 282.8 | -20.7 | 1.31 | 1.305 | 119.8 | 0.768 | 3.030 | 290.0 | 552.8 | 0.702 | 5.357 | -0.27 | 0.272 | 55.9 | 115.4 | 2.5 | 0.280 |
| 4-1330 | 4-2670 | 0.674 | 283.7 | -20.7 | 1.30 | 1.306 | 120.5 | 0.773 | 3.042 | 288.5 | 553.1 | 0.691 | 5.392 | -0.27 | 0.274 | 54.6 | 116.3 | 2.5 | 0.286 |
| 4-1330 | 4-2690 | 0.687 | 284.6 | -20.6 | 1.29 | 1.306 | 121.2 | 0.778 | 3.054 | 287.0 | 553.5 | 0.679 | 5.428 | -0.27 | 0.276 | 53.4 | 117.2 | 2.5 | 0.291 |
| 4-1330 | 4-2710 | 0.701 | 285.6 | -20.6 | 1.28 | 1.307 | 121.9 | 0.782 | 3.066 | 285.5 | 553.8 | 0.667 | 5.465 | -0.27 | 0.279 | 52.2 | 118.1 | 2.5 | 0.296 |
| 4-1330 | 4-2730 | 0.714 | 286.5 | -20.6 | 1.28 | 1.307 | 122.7 | 0.787 | 3.079 | 284.0 | 554.1 | 0.655 | 5.503 | -0.27 | 0.281 | 51.0 | 119.1 | 2.5 | 0.301 |
| 4-1330 | 4-2750 | 0.729 | 287.4 | -20.6 | 1.27 | 1.308 | 123.5 | 0.792 | 3.092 | 282.4 | 554.3 | 0.642 | 5.541 | -0.27 | 0.283 | 49.9 | 120.2 | 2.5 | 0.307 |
| 4-1330 | 4-2770 | 0.743 | 288.3 | -20.5 | 1.26 | 1.308 | 124.3 | 0.797 | 3.105 | 280.8 | 554.5 | 0.629 | 5.581 | -0.27 | 0.285 | 48.7 | 121.3 | 2.4 | 0.312 |
| 4-1330 | 4-2790 | 0.758 | 289.3 | -20.5 | 1.25 | 1.309 | 125.1 | 0.803 | 3.118 | 279.1 | 554.7 | 0.615 | 5.621 | -0.27 | 0.288 | 47.6 | 122.5 | 2.4 | 0.317 |
| 4-1330 | 4-2810 | 0.773 | 290.2 | -20.4 | 1.24 | 1.309 | 125.9 | 0.808 | 3.132 | 277.5 | 554.9 | 0.601 | 5.662 | -0.27 | 0.290 | 46.5 | 123.7 | 2.4 | 0.323 |
| 4-1330 | 4-2830 | 0.788 | 291.1 | -20.4 | 1.23 | 1.310 | 126.8 | 0.813 | 3.145 | 275.8 | 555.1 | 0.587 | 5.704 | -0.28 | 0.292 | 45.4 | 124.9 | 2.3 | 0.328 |
| 4-1330 | 4-2850 | 0.804 | 292.0 | -20.3 | 1.22 | 1.310 | 127.6 | 0.819 | 3.159 | 274.1 | 555.2 | 0.572 | 5.747 | -0.28 | 0.294 | 44.4 | 126.2 | 2.3 | 0.334 |
| 4-1330 | 4-2870 | 0.820 | 293.0 | -20.2 | 1.21 | 1.311 | 128.5 | 0.824 | 3.174 | 272.4 | 555.3 | 0.558 | 5.790 | -0.28 | 0.296 | 43.3 | 127.5 | 2.3 | 0.339 |
| 4-1330 | 4-2890 | 0.836 | 293.9 | -20.1 | 1.21 | 1.311 | 129.4 | 0.830 | 3.188 | 270.6 | 555.4 | 0.542 | 5.834 | -0.28 | 0.298 | 42.3 | 128.9 | 2.2 | 0.345 |
| 4-1330 | 4-2910 | 0.853 | 294.8 | -20.1 | 1.20 | 1.312 | 130.3 | 0.835 | 3.203 | 268.9 | 555.4 | 0.527 | 5.878 | -0.28 | 0.300 | 41.3 | 130.3 | 2.2 | 0.350 |
| 4-1330 | 4-2930 | 0.869 | 295.7 | -20.0 | 1.19 | 1.313 | 131.3 | 0.841 | 3.217 | 267.1 | 555.4 | 0.511 | 5.923 | -0.29 | 0.302 | 40.2 | 131.7 | 2.1 | 0.356 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1340 | 4-1740 | 0.624 | 270.8 | -27.9 | -2.07 | 1.441 | 111.3 | 1.037 | 22.889 | 318.2 | 489.6 | 0.856 | --- | 3.31 | 0.657 | 157.0 | 140.8 | 3.2 | 0.654 |
| 4-1340 | 4-1760 | 0.594 | 270.0 | -29.9 | -2.89 | 1.421 | 110.3 | 0.989 | 78.615 | 319.1 | 492.3 | 0.865 | --- | 4.13 | 0.614 | 155.4 | 141.1 | 3.7 | 0.609 |
| 4-1340 | 4-1780 | 0.570 | 269.3 | -33.3 | -4.25 | 1.404 | 109.4 | 0.947 | 16.559 | 320.1 | 494.9 | 0.873 | --- | 5.48 | 0.574 | 153.7 | 141.2 | 4.4 | 0.569 |
| 4-1340 | 4-1800 | 0.558 | 269.0 | -40.0 | -6.93 | 1.390 | 108.6 | 0.911 | 9.918 | 321.0 | 497.5 | 0.880 | --- | 8.16 | 0.538 | 151.9 | 141.2 | 5.8 | 0.533 |
| 4-1340 | 4-1820 | 0.597 | 272.6 | -57.3 | -14.69 | 1.377 | 107.8 | 0.880 | 7.392 | 321.8 | 500.0 | 0.886 | --- | 15.90 | 0.505 | 150.1 | 140.7 | 9.8 | 0.506 |
| 4-1340 | 4-1860 | 0.597 | 272.0 | 17.0 | 17.32 | 1.357 | 106.7 | 0.830 | 5.262 | 323.1 | 504.9 | 0.895 | --- | -16.12 | 0.449 | 146.1 | 139.6 | -6.9 | 0.449 |
| 4-1340 | 4-1880 | 0.509 | 267.9 | 1.1 | 9.38 | 1.349 | 106.1 | 0.810 | 4.721 | 323.8 | 507.2 | 0.899 | --- | -8.18 | 0.425 | 143.9 | 140.4 | -3.0 | 0.416 |
| 4-1340 | 4-1900 | 0.480 | 266.5 | -5.2 | 6.65 | 1.342 | 105.7 | 0.792 | 4.337 | 324.3 | 509.5 | 0.903 | --- | -5.46 | 0.403 | 141.7 | 140.3 | -1.5 | 0.391 |
| 4-1340 | 4-1920 | 0.463 | 265.7 | -8.5 | 5.28 | 1.336 | 105.3 | 0.777 | 4.052 | 324.8 | 511.7 | 0.905 | --- | -4.10 | 0.383 | 139.3 | 139.9 | -0.8 | 0.369 |
| 4-1340 | 4-1940 | 0.451 | 265.1 | -10.6 | 4.45 | 1.331 | 105.0 | 0.763 | 3.834 | 325.1 | 513.8 | 0.908 | --- | -3.28 | 0.365 | 136.9 | 139.4 | -0.3 | 0.349 |
| 4-1340 | 4-1960 | 0.442 | 264.7 | -12.0 | 3.90 | 1.326 | 104.8 | 0.752 | 3.664 | 325.4 | 515.8 | 0.910 | --- | -2.73 | 0.348 | 134.4 | 138.8 | -0.0 | 0.331 |
| 4-1340 | 4-1980 | 0.435 | 264.5 | -13.0 | 3.50 | 1.322 | 104.6 | 0.742 | 3.528 | 325.6 | 517.8 | 0.911 | --- | -2.35 | 0.334 | 131.8 | 138.1 | 0.2 | 0.314 |
| 4-1340 | 4-2000 | 0.429 | 264.3 | -13.7 | 3.20 | 1.319 | 104.4 | 0.733 | 3.418 | 325.8 | 519.7 | 0.912 | --- | -2.05 | 0.321 | 129.2 | 137.2 | 0.4 | 0.299 |
| 4-1340 | 4-2020 | 0.424 | 264.2 | -14.4 | 2.97 | 1.316 | 104.3 | 0.726 | 3.328 | 325.8 | 521.5 | 0.913 | --- | -1.83 | 0.309 | 126.5 | 136.3 | 0.5 | 0.286 |
| 4-1340 | 4-2040 | 0.421 | 264.2 | -14.9 | 2.78 | 1.313 | 104.2 | 0.719 | 3.255 | 325.8 | 523.2 | 0.913 | --- | -1.65 | 0.298 | 123.7 | 135.2 | 0.7 | 0.273 |
| 4-1340 | 4-2060 | 0.418 | 264.3 | -15.3 | 2.63 | 1.311 | 104.2 | 0.714 | 3.194 | 325.8 | 524.9 | 0.913 | --- | -1.50 | 0.289 | 120.9 | 134.0 | 0.8 | 0.262 |
| 4-1340 | 4-2080 | 0.416 | 264.4 | -15.7 | 2.50 | 1.309 | 104.2 | 0.710 | 3.143 | 325.6 | 526.6 | 0.913 | --- | -1.38 | 0.281 | 118.0 | 132.8 | 0.9 | 0.253 |
| 4-1340 | 4-2100 | 0.415 | 264.7 | -16.0 | 2.39 | 1.307 | 104.2 | 0.706 | 3.101 | 325.4 | 528.1 | 0.912 | --- | -1.28 | 0.274 | 115.2 | 131.5 | 1.0 | 0.244 |
| 4-1340 | 4-2120 | 0.415 | 265.0 | -16.4 | 2.29 | 1.306 | 104.3 | 0.703 | 3.065 | 325.1 | 529.6 | 0.911 | --- | -1.19 | 0.268 | 112.3 | 130.1 | 1.1 | 0.237 |
| 4-1340 | 4-2140 | 0.416 | 265.3 | -16.6 | 2.21 | 1.305 | 104.4 | 0.700 | 3.036 | 324.8 | 531.0 | 0.910 | --- | -1.11 | 0.263 | 109.5 | 128.7 | 1.2 | 0.230 |
| 4-1340 | 4-2160 | 0.417 | 265.8 | -16.9 | 2.13 | 1.304 | 104.6 | 0.698 | 3.012 | 324.3 | 532.4 | 0.908 | --- | -1.05 | 0.259 | 106.7 | 127.2 | 1.3 | 0.225 |
| 4-1340 | 4-2180 | 0.418 | 266.3 | -17.2 | 2.07 | 1.303 | 104.7 | 0.697 | 2.992 | 323.9 | 533.7 | 0.907 | --- | -0.99 | 0.255 | 103.9 | 125.7 | 1.4 | 0.221 |
| 4-1340 | 4-2200 | 0.420 | 266.8 | -17.4 | 2.01 | 1.302 | 104.9 | 0.696 | 2.976 | 323.4 | 535.0 | 0.904 | --- | -0.94 | 0.252 | 101.2 | 124.3 | 1.5 | 0.217 |
| 4-1340 | 4-2220 | 0.423 | 267.4 | -17.6 | 1.96 | 1.302 | 105.2 | 0.696 | 2.963 | 322.8 | 536.2 | 0.902 | --- | -0.90 | 0.250 | 98.5 | 122.8 | 1.5 | 0.214 |
| 4-1340 | 4-2240 | 0.426 | 268.1 | -17.8 | 1.91 | 1.301 | 105.4 | 0.695 | 2.953 | 322.2 | 537.4 | 0.899 | --- | -0.86 | 0.249 | 95.9 | 121.5 | 1.6 | 0.212 |
| 4-1340 | 4-2260 | 0.430 | 268.7 | -18.0 | 1.86 | 1.301 | 105.7 | 0.696 | 2.946 | 321.5 | 538.5 | 0.896 | --- | -0.82 | 0.247 | 93.4 | 120.2 | 1.7 | 0.211 |
| 4-1340 | 4-2280 | 0.434 | 269.5 | -18.2 | 1.82 | 1.301 | 106.0 | 0.696 | 2.940 | 320.7 | 539.6 | 0.893 | --- | -0.79 | 0.247 | 90.9 | 118.9 | 1.8 | 0.211 |
| 4-1340 | 4-2300 | 0.439 | 270.2 | -18.4 | 1.78 | 1.301 | 106.3 | 0.697 | 2.937 | 320.0 | 540.6 | 0.890 | 4.984 | -0.76 | 0.247 | 88.6 | 117.8 | 1.8 | 0.211 |
| 4-1340 | 4-2320 | 0.444 | 271.0 | -18.5 | 1.75 | 1.301 | 106.6 | 0.698 | 2.935 | 319.2 | 541.6 | 0.886 | 4.984 | -0.73 | 0.247 | 86.3 | 116.8 | 1.9 | 0.211 |
| 4-1340 | 4-2340 | 0.449 | 271.9 | -18.7 | 1.71 | 1.301 | 107.0 | 0.700 | 2.935 | 318.3 | 542.6 | 0.882 | 4.988 | -0.71 | 0.247 | 84.1 | 115.9 | 1.9 | 0.212 |
| 4-1340 | 4-2360 | 0.455 | 272.7 | -18.8 | 1.68 | 1.301 | 107.4 | 0.701 | 2.936 | 317.4 | 543.5 | 0.877 | 4.994 | -0.68 | 0.248 | 81.9 | 115.1 | 2.0 | 0.214 |
| 4-1340 | 4-2380 | 0.462 | 273.6 | -19.0 | 1.65 | 1.301 | 107.8 | 0.703 | 2.938 | 316.4 | 544.4 | 0.872 | 5.004 | -0.66 | 0.249 | 79.9 | 114.4 | 2.0 | 0.216 |
| 4-1340 | 4-2400 | 0.468 | 274.5 | -19.1 | 1.63 | 1.301 | 108.2 | 0.705 | 2.942 | 315.5 | 545.2 | 0.867 | 5.016 | -0.65 | 0.250 | 77.9 | 113.8 | 2.1 | 0.218 |
| 4-1340 | 4-2420 | 0.476 | 275.4 | -19.2 | 1.60 | 1.301 | 108.7 | 0.707 | 2.946 | 314.4 | 546.0 | 0.862 | 5.030 | -0.63 | 0.252 | 76.0 | 113.4 | 2.1 | 0.221 |
| 4-1340 | 4-2440 | 0.483 | 276.4 | -19.3 | 1.58 | 1.301 | 109.1 | 0.710 | 2.951 | 313.4 | 546.8 | 0.856 | 5.046 | -0.61 | 0.253 | 74.2 | 113.1 | 2.2 | 0.224 |
| 4-1340 | 4-2460 | 0.491 | 277.3 | -19.4 | 1.55 | 1.302 | 109.6 | 0.712 | 2.957 | 312.3 | 547.5 | 0.850 | 5.065 | -0.60 | 0.255 | 72.5 | 112.9 | 2.2 | 0.227 |
| 4-1340 | 4-2480 | 0.499 | 278.3 | -19.5 | 1.53 | 1.302 | 110.1 | 0.715 | 2.964 | 311.1 | 548.2 | 0.844 | 5.085 | -0.59 | 0.257 | 70.8 | 112.8 | 2.2 | 0.231 |
| 4-1340 | 4-2500 | 0.508 | 279.3 | -19.5 | 1.51 | 1.302 | 110.6 | 0.718 | 2.972 | 310.0 | 548.8 | 0.837 | 5.106 | -0.58 | 0.259 | 69.2 | 112.9 | 2.2 | 0.235 |
| 4-1340 | 4-2520 | 0.517 | 280.2 | -19.6 | 1.49 | 1.302 | 111.2 | 0.721 | 2.980 | 308.8 | 549.5 | 0.830 | 5.130 | -0.57 | 0.261 | 67.6 | 113.0 | 2.3 | 0.238 |
| 4-1340 | 4-2540 | 0.526 | 281.2 | -19.7 | 1.47 | 1.303 | 111.7 | 0.725 | 2.989 | 307.6 | 550.1 | 0.823 | 5.155 | -0.56 | 0.263 | 66.1 | 113.2 | 2.3 | 0.243 |
| 4-1340 | 4-2560 | 0.536 | 282.2 | -19.7 | 1.45 | 1.303 | 112.3 | 0.728 | 2.998 | 306.3 | 550.7 | 0.815 | 5.181 | -0.55 | 0.265 | 64.7 | 113.5 | 2.3 | 0.247 |
| 4-1340 | 4-2580 | 0.546 | 283.2 | -19.7 | 1.43 | 1.304 | 112.9 | 0.732 | 3.008 | 305.0 | 551.2 | 0.807 | 5.209 | -0.54 | 0.267 | 63.3 | 114.0 | 2.3 | 0.251 |
| 4-1340 | 4-2600 | 0.556 | 284.2 | -19.8 | 1.41 | 1.304 | 113.5 | 0.735 | 3.018 | 303.7 | 551.7 | 0.799 | 5.238 | -0.53 | 0.269 | 61.9 | 114.5 | 2.3 | 0.255 |
| 4-1340 | 4-2620 | 0.567 | 285.2 | -19.8 | 1.39 | 1.305 | 114.1 | 0.739 | 3.029 | 302.3 | 552.2 | 0.790 | 5.268 | -0.53 | 0.272 | 60.6 | 115.0 | 2.3 | 0.260 |
| 4-1340 | 4-2640 | 0.578 | 286.2 | -19.8 | 1.37 | 1.305 | 114.7 | 0.743 | 3.040 | 301.0 | 552.7 | 0.781 | 5.299 | -0.52 | 0.274 | 59.4 | 115.7 | 2.3 | 0.264 |
| 4-1340 | 4-2660 | 0.589 | 287.2 | -19.8 | 1.35 | 1.305 | 115.4 | 0.747 | 3.051 | 299.6 | 553.1 | 0.771 | 5.331 | -0.51 | 0.276 | 58.1 | 116.4 | 2.3 | 0.269 |
| 4-1340 | 4-2680 | 0.601 | 288.2 | -19.8 | 1.34 | 1.306 | 116.1 | 0.751 | 3.063 | 298.1 | 553.5 | 0.761 | 5.364 | -0.51 | 0.278 | 56.9 | 117.2 | 2.3 | 0.274 |
| 4-1340 | 4-2700 | 0.613 | 289.2 | -19.7 | 1.32 | 1.306 | 116.8 | 0.756 | 3.075 | 296.7 | 553.9 | 0.751 | 5.399 | -0.51 | 0.280 | 55.8 | 118.1 | 2.3 | 0.279 |
| 4-1340 | 4-2720 | 0.626 | 290.2 | -19.7 | 1.30 | 1.307 | 117.5 | 0.760 | 3.087 | 295.2 | 554.2 | 0.740 | 5.434 | -0.50 | 0.283 | 54.6 | 119.0 | 2.3 | 0.284 |
| 4-1340 | 4-2740 | 0.638 | 291.2 | -19.7 | 1.29 | 1.307 | 118.2 | 0.765 | 3.100 | 293.7 | 554.5 | 0.729 | 5.470 | -0.50 | 0.285 | 53.5 | 119.9 | 2.3 | 0.288 |
| 4-1340 | 4-2760 | 0.651 | 292.2 | -19.6 | 1.27 | 1.308 | 118.9 | 0.769 | 3.112 | 292.2 | 554.8 | 0.718 | 5.507 | -0.50 | 0.287 | 52.4 | 120.9 | 2.2 | 0.293 |
| 4-1340 | 4-2780 | 0.665 | 293.2 | -19.6 | 1.26 | 1.308 | 119.7 | 0.774 | 3.125 | 290.6 | 555.1 | 0.706 | 5.545 | -0.50 | 0.289 | 51.4 | 122.0 | 2.2 | 0.298 |
| 4-1340 | 4-2800 | 0.678 | 294.1 | -19.5 | 1.24 | 1.309 | 120.4 | 0.779 | 3.139 | 289.0 | 555.4 | 0.694 | 5.583 | -0.49 | 0.291 | 50.3 | 123.1 | 2.2 | 0.303 |
| 4-1340 | 4-2820 | 0.692 | 295.1 | -19.4 | 1.22 | 1.310 | 121.2 | 0.784 | 3.152 | 287.4 | 555.6 | 0.681 | 5.623 | -0.49 | 0.293 | 49.3 | 124.3 | 2.2 | 0.308 |
| 4-1340 | 4-2840 | 0.707 | 296.1 | -19.3 | 1.21 | 1.310 | 122.0 | 0.789 | 3.166 | 285.8 | 555.8 | 0.669 | 5.663 | -0.49 | 0.295 | 48.3 | 125.5 | 2.2 | 0.313 |
| 4-1340 | 4-2860 | 0.721 | 297.1 | -19.3 | 1.19 | 1.311 | 122.8 | 0.794 | 3.179 | 284.2 | 556.0 | 0.655 | 5.704 | -0.49 | 0.297 | 47.3 | 126.7 | 2.1 | 0.319 |
| 4-1340 | 4-2880 | 0.736 | 298.0 | -19.2 | 1.18 | 1.311 | 123.6 | 0.799 | 3.193 | 282.5 | 556.1 | 0.642 | 5.745 | -0.49 | 0.299 | 46.3 | 128.0 | 2.1 | 0.324 |
| 4-1340 | 4-2900 | 0.751 | 299.0 | -19.1 | 1.16 | 1.312 | 124.5 | 0.804 | 3.208 | 280.8 | 556.3 | 0.628 | 5.787 | -0.50 | 0.301 | 45.3 | 129.3 | 2.1 | 0.329 |
| 4-1340 | 4-2920 | 0.767 | 300.0 | -19.0 | 1.15 | 1.312 | 125.3 | 0.810 | 3.222 | 279.1 | 556.4 | 0.614 | 5.830 | -0.50 | 0.303 | 44.4 | 130.6 | 2.0 | 0.334 |
| 4-1340 | 4-2940 | 0.782 | 300.9 | -18.8 | 1.13 | 1.313 | 126.2 | 0.815 | 3.236 | 277.4 | 556.5 | 0.599 | 5.874 | -0.50 | 0.305 | 43.4 | 132.0 | 2.0 | 0.339 |
| 4-1350 | 4-1710 | 0.635 | 275.2 | -24.9 | -0.69 | 1.488 | 109.4 | 1.162 | -5.446 | 324.0 | 482.8 | 0.885 | --- | 1.93 | 0.756 | 159.2 | 141.4 | 2.6 | 0.748 |
| 4-1350 | 4-1730 | 0.596 | 274.1 | -25.4 | -0.86 | 1.461 | 108.2 | 1.093 | -9.575 | 325.2 | 485.6 | 0.893 | --- | 2.09 | 0.702 | 157.8 | 141.8 | 2.7 | 0.694 |
| 4-1350 | 4-1750 | 0.562 | 273.0 | -26.0 | -1.06 | 1.438 | 107.1 | 1.035 | 26.045 | 326.3 | 488.5 | 0.901 | --- | 2.28 | 0.654 | 156.2 | 142.0 | 2.8 | 0.645 |
| 4-1350 | 4-1770 | 0.533 | 271.9 | -26.8 | -1.31 | 1.419 | 106.2 | 0.985 | 58.922 | 327.4 | 491.2 | 0.909 | --- | 2.51 | 0.610 | 154.6 | 142.3 | 3.0 | 0.601 |
| 4-1350 | 4-1790 | 0.508 | 270.8 | -27.7 | -1.61 | 1.402 | 105.3 | 0.942 | 15.681 | 328.4 | 494.0 | 0.915 | --- | 2.80 | 0.571 | 152.9 | 142.4 | 3.2 | 0.561 |
| 4-1350 | 4-1810 | 0.487 | 269.8 | -28.9 | -1.98 | 1.388 | 104.5 | 0.905 | 9.666 | 329.4 | 496.6 | 0.920 | --- | 3.16 | 0.536 | 151.2 | 142.5 | 3.4 | 0.524 |
| 4-1350 | 4-1830 | 0.468 | 268.8 | -30.5 | -2.48 | 1.376 | 103.8 | 0.873 | 7.284 | 330.3 | 499.2 | 0.925 | --- | 3.65 | 0.504 | 149.3 | 142.5 | 3.8 | 0.491 |
| 4-1350 | 4-1850 | 0.453 | 267.8 | -32.7 | -3.15 | 1.365 | 103.2 | 0.846 | 6.016 | 331.1 | 501.8 | 0.929 | --- | 4.31 | 0.475 | 147.3 | 142.4 | 4.3 | 0.461 |
| 4-1350 | 4-1870 | 0.442 | 267.0 | -35.9 | -4.13 | 1.356 | 102.7 | 0.822 | 5.235 | 331.9 | 504.2 | 0.933 | --- | 5.28 | 0.448 | 145.3 | 142.3 | 5.0 | 0.434 |
| 4-1350 | 4-1890 | 0.437 | 266.3 | -40.8 | -5.67 | 1.348 | 102.2 | 0.801 | 4.708 | 332.5 | 506.6 | 0.936 | --- | 6.81 | 0.424 | 143.1 | 142.0 | 6.1 | 0.409 |
| 4-1350 | 4-1910 | 0.445 | 266.2 | -49.2 | -8.49 | 1.341 | 101.8 | 0.783 | 4.333 | 333.1 | 508.9 | 0.939 | --- | 9.62 | 0.403 | 140.9 | 141.5 | 8.2 | 0.388 |
| 4-1350 | 4-1930 | 0.504 | 270.1 | -66.4 | -15.19 | 1.335 | 101.4 | 0.768 | 4.054 | 333.7 | 511.2 | 0.941 | --- | 16.31 | 0.383 | 138.5 | 140.4 | 12.9 | 0.375 |
| 4-1350 | 4-1950 | 0.983 | 45.6 | -67.9 | -46.08 | 1.330 | 101.0 | 0.754 | 3.839 | 334.3 | 513.3 | 0.943 | --- | 47.19 | 0.366 | 136.1 | 131.9 | 27.5 | 0.437 |
| 4-1350 | 4-1970 | 0.768 | 283.9 | 47.2 | 33.54 | 1.326 | 101.0 | 0.743 | 3.672 | 334.1 | 515.4 | 0.943 | --- | -32.44 | 0.350 | 133.6 | 134.1 | -19.0 | 0.376 |
| 4-1350 | 4-1990 | 0.484 | 269.4 | 20.1 | 14.87 | 1.322 | 100.8 | 0.733 | 3.538 | 334.5 | 517.4 | 0.945 | --- | -13.78 | 0.335 | 131.1 | 137.8 | -8.8 | 0.320 |
| 4-1350 | 4-2010 | 0.424 | 266.7 | 7.6 | 9.71 | 1.318 | 100.6 | 0.724 | 3.429 | 334.6 | 519.3 | 0.946 | --- | -8.64 | 0.322 | 128.4 | 137.7 | -5.2 | 0.299 |
| 4-1350 | 4-2030 | 0.401 | 265.7 | 1.0 | 7.34 | 1.315 | 100.5 | 0.717 | 3.341 | 334.7 | 521.1 | 0.946 | --- | -6.28 | 0.311 | 125.8 | 137.0 | -3.5 | 0.284 |
| 4-1350 | 4-2050 | 0.389 | 265.2 | -3.1 | 5.98 | 1.313 | 100.4 | 0.710 | 3.268 | 334.8 | 522.9 | 0.946 | --- | -4.93 | 0.301 | 123.0 | 136.1 | -2.5 | 0.271 |
| 4-1350 | 4-2070 | 0.382 | 265.0 | -5.9 | 5.10 | 1.311 | 100.4 | 0.705 | 3.208 | 334.7 | 524.6 | 0.946 | --- | -4.06 | 0.292 | 120.3 | 135.0 | -1.8 | 0.260 |
| 4-1350 | 4-2090 | 0.378 | 265.0 | -7.9 | 4.48 | 1.309 | 100.4 | 0.700 | 3.158 | 334.6 | 526.3 | 0.946 | --- | -3.45 | 0.284 | 117.5 | 133.8 | -1.3 | 0.250 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1350 | 4-2110 | 0.375 | 265.1 | -9.4 | 4.02 | 1.307 | 100.5 | 0.697 | 3.116 | 334.4 | 527.8 | 0.946 | --- | -3.00 | 0.277 | 114.7 | 132.5 | -0.9 | 0.241 |
| 4-1350 | 4-2130 | 0.373 | 265.4 | -10.7 | 3.67 | 1.306 | 100.6 | 0.693 | 3.081 | 334.1 | 529.3 | 0.945 | --- | -2.66 | 0.272 | 111.9 | 131.2 | -0.6 | 0.234 |
| 4-1350 | 4-2150 | 0.372 | 265.8 | -11.6 | 3.39 | 1.305 | 100.7 | 0.691 | 3.053 | 333.8 | 530.8 | 0.944 | --- | -2.39 | 0.267 | 109.2 | 129.8 | -0.3 | 0.227 |
| 4-1350 | 4-2170 | 0.372 | 266.2 | -12.5 | 3.15 | 1.304 | 100.8 | 0.689 | 3.029 | 333.4 | 532.2 | 0.943 | --- | -2.17 | 0.263 | 106.4 | 128.4 | -0.1 | 0.222 |
| 4-1350 | 4-2190 | 0.373 | 266.7 | -13.2 | 2.96 | 1.303 | 101.0 | 0.687 | 3.009 | 332.9 | 533.5 | 0.942 | --- | -1.99 | 0.259 | 103.7 | 126.9 | 0.1 | 0.217 |
| 4-1350 | 4-2210 | 0.374 | 267.3 | -13.8 | 2.80 | 1.302 | 101.2 | 0.686 | 2.993 | 332.4 | 534.8 | 0.940 | --- | -1.83 | 0.256 | 101.1 | 125.5 | 0.3 | 0.214 |
| 4-1350 | 4-2230 | 0.376 | 268.0 | -14.4 | 2.66 | 1.302 | 101.4 | 0.685 | 2.981 | 331.8 | 536.0 | 0.938 | --- | -1.71 | 0.254 | 98.5 | 124.1 | 0.5 | 0.211 |
| 4-1350 | 4-2250 | 0.379 | 268.7 | -14.9 | 2.54 | 1.301 | 101.6 | 0.685 | 2.971 | 331.2 | 537.2 | 0.936 | --- | -1.59 | 0.253 | 96.0 | 122.7 | 0.7 | 0.209 |
| 4-1350 | 4-2270 | 0.382 | 269.5 | -15.3 | 2.43 | 1.301 | 101.9 | 0.685 | 2.964 | 330.6 | 538.3 | 0.934 | --- | -1.50 | 0.252 | 93.6 | 121.4 | 0.8 | 0.207 |
| 4-1350 | 4-2290 | 0.385 | 270.4 | -15.7 | 2.33 | 1.301 | 102.2 | 0.685 | 2.958 | 329.8 | 539.4 | 0.931 | --- | -1.42 | 0.251 | 91.2 | 120.2 | 0.9 | 0.207 |
| 4-1350 | 4-2310 | 0.389 | 271.3 | -16.1 | 2.25 | 1.300 | 102.5 | 0.686 | 2.955 | 329.1 | 540.5 | 0.929 | 4.982 | -1.34 | 0.251 | 88.9 | 119.1 | 1.0 | 0.206 |
| 4-1350 | 4-2330 | 0.393 | 272.2 | -16.4 | 2.17 | 1.300 | 102.8 | 0.687 | 2.954 | 328.3 | 541.5 | 0.926 | 4.981 | -1.28 | 0.251 | 86.7 | 118.0 | 1.2 | 0.207 |
| 4-1350 | 4-2350 | 0.398 | 273.2 | -16.7 | 2.10 | 1.300 | 103.2 | 0.688 | 2.953 | 327.4 | 542.5 | 0.922 | 4.985 | -1.22 | 0.252 | 84.6 | 117.1 | 1.3 | 0.208 |
| 4-1350 | 4-2370 | 0.403 | 274.1 | -17.0 | 2.04 | 1.300 | 103.6 | 0.689 | 2.955 | 326.5 | 543.4 | 0.919 | 4.990 | -1.17 | 0.253 | 82.6 | 116.3 | 1.4 | 0.209 |
| 4-1350 | 4-2390 | 0.408 | 275.2 | -17.2 | 1.98 | 1.301 | 104.0 | 0.691 | 2.957 | 325.6 | 544.3 | 0.915 | 4.999 | -1.12 | 0.254 | 80.6 | 115.6 | 1.4 | 0.211 |
| 4-1350 | 4-2410 | 0.414 | 276.2 | -17.5 | 1.92 | 1.301 | 104.4 | 0.692 | 2.961 | 324.6 | 545.1 | 0.911 | 5.010 | -1.08 | 0.255 | 78.8 | 115.1 | 1.5 | 0.213 |
| 4-1350 | 4-2430 | 0.420 | 277.3 | -17.7 | 1.87 | 1.301 | 104.8 | 0.694 | 2.965 | 323.6 | 545.9 | 0.907 | 5.024 | -1.04 | 0.256 | 76.9 | 114.6 | 1.6 | 0.216 |
| 4-1350 | 4-2450 | 0.427 | 278.4 | -17.8 | 1.82 | 1.301 | 105.2 | 0.696 | 2.971 | 322.6 | 546.7 | 0.902 | 5.039 | -1.00 | 0.258 | 75.2 | 114.3 | 1.6 | 0.218 |
| 4-1350 | 4-2470 | 0.434 | 279.5 | -18.0 | 1.78 | 1.301 | 105.7 | 0.699 | 2.977 | 321.5 | 547.5 | 0.897 | 5.056 | -0.97 | 0.260 | 73.5 | 114.1 | 1.7 | 0.221 |
| 4-1350 | 4-2490 | 0.441 | 280.6 | -18.1 | 1.74 | 1.302 | 106.2 | 0.701 | 2.984 | 320.4 | 548.2 | 0.892 | 5.075 | -0.94 | 0.261 | 71.9 | 114.0 | 1.8 | 0.224 |
| 4-1350 | 4-2510 | 0.449 | 281.7 | -18.3 | 1.70 | 1.302 | 106.7 | 0.704 | 2.992 | 319.3 | 548.9 | 0.887 | 5.096 | -0.92 | 0.263 | 70.4 | 114.0 | 1.8 | 0.228 |
| 4-1350 | 4-2530 | 0.457 | 282.8 | -18.4 | 1.66 | 1.302 | 107.2 | 0.706 | 3.000 | 318.1 | 549.5 | 0.881 | 5.118 | -0.89 | 0.265 | 68.9 | 114.1 | 1.8 | 0.231 |
| 4-1350 | 4-2550 | 0.465 | 284.0 | -18.5 | 1.62 | 1.303 | 107.7 | 0.709 | 3.009 | 316.9 | 550.2 | 0.875 | 5.142 | -0.87 | 0.267 | 67.5 | 114.3 | 1.9 | 0.235 |
| 4-1350 | 4-2570 | 0.474 | 285.1 | -18.5 | 1.59 | 1.303 | 108.3 | 0.712 | 3.018 | 315.6 | 550.8 | 0.869 | 5.167 | -0.85 | 0.269 | 66.1 | 114.6 | 1.9 | 0.239 |
| 4-1350 | 4-2590 | 0.483 | 286.2 | -18.6 | 1.56 | 1.304 | 108.8 | 0.715 | 3.028 | 314.4 | 551.3 | 0.862 | 5.194 | -0.83 | 0.271 | 64.8 | 115.0 | 1.9 | 0.243 |
| 4-1350 | 4-2610 | 0.492 | 287.4 | -18.6 | 1.53 | 1.304 | 109.4 | 0.719 | 3.038 | 313.1 | 551.9 | 0.855 | 5.221 | -0.82 | 0.273 | 63.5 | 115.5 | 2.0 | 0.247 |
| 4-1350 | 4-2630 | 0.502 | 288.5 | -18.7 | 1.50 | 1.304 | 110.0 | 0.722 | 3.049 | 311.8 | 552.4 | 0.848 | 5.250 | -0.80 | 0.276 | 62.3 | 116.0 | 2.0 | 0.251 |
| 4-1350 | 4-2650 | 0.512 | 289.6 | -18.7 | 1.47 | 1.305 | 110.6 | 0.726 | 3.060 | 310.4 | 552.9 | 0.840 | 5.280 | -0.79 | 0.278 | 61.1 | 116.7 | 2.0 | 0.255 |
| 4-1350 | 4-2670 | 0.522 | 290.7 | -18.7 | 1.44 | 1.305 | 111.2 | 0.729 | 3.071 | 309.1 | 553.3 | 0.832 | 5.310 | -0.78 | 0.280 | 59.9 | 117.3 | 2.0 | 0.260 |
| 4-1350 | 4-2690 | 0.533 | 291.8 | -18.7 | 1.41 | 1.306 | 111.8 | 0.733 | 3.083 | 307.7 | 553.8 | 0.823 | 5.342 | -0.76 | 0.282 | 58.8 | 118.1 | 2.0 | 0.264 |
| 4-1350 | 4-2710 | 0.544 | 293.0 | -18.7 | 1.39 | 1.306 | 112.5 | 0.737 | 3.095 | 306.2 | 554.2 | 0.815 | 5.375 | -0.75 | 0.284 | 57.7 | 118.9 | 2.0 | 0.269 |
| 4-1350 | 4-2730 | 0.555 | 294.1 | -18.6 | 1.36 | 1.307 | 113.1 | 0.741 | 3.107 | 304.8 | 554.6 | 0.805 | 5.409 | -0.74 | 0.286 | 56.6 | 119.8 | 2.0 | 0.273 |
| 4-1350 | 4-2750 | 0.567 | 295.1 | -18.6 | 1.34 | 1.307 | 113.8 | 0.745 | 3.120 | 303.3 | 554.9 | 0.796 | 5.443 | -0.74 | 0.288 | 55.6 | 120.7 | 2.0 | 0.278 |
| 4-1350 | 4-2770 | 0.579 | 296.2 | -18.5 | 1.31 | 1.308 | 114.5 | 0.749 | 3.132 | 301.8 | 555.3 | 0.786 | 5.478 | -0.73 | 0.290 | 54.6 | 121.7 | 2.0 | 0.282 |
| 4-1350 | 4-2790 | 0.591 | 297.3 | -18.5 | 1.29 | 1.308 | 115.2 | 0.753 | 3.145 | 300.3 | 555.6 | 0.776 | 5.515 | -0.72 | 0.292 | 53.6 | 122.7 | 2.0 | 0.287 |
| 4-1350 | 4-2810 | 0.604 | 298.4 | -18.4 | 1.26 | 1.309 | 115.9 | 0.758 | 3.158 | 298.8 | 555.9 | 0.765 | 5.552 | -0.72 | 0.294 | 52.6 | 123.8 | 2.0 | 0.291 |
| 4-1350 | 4-2830 | 0.617 | 299.4 | -18.3 | 1.24 | 1.309 | 116.7 | 0.762 | 3.172 | 297.2 | 556.2 | 0.754 | 5.589 | -0.71 | 0.296 | 51.6 | 124.9 | 2.0 | 0.296 |
| 4-1350 | 4-2850 | 0.630 | 300.5 | -18.2 | 1.22 | 1.310 | 117.4 | 0.767 | 3.185 | 295.7 | 556.4 | 0.743 | 5.628 | -0.71 | 0.298 | 50.7 | 126.1 | 1.9 | 0.301 |
| 4-1350 | 4-2870 | 0.643 | 301.5 | -18.1 | 1.19 | 1.310 | 118.2 | 0.771 | 3.199 | 294.1 | 556.6 | 0.731 | 5.667 | -0.70 | 0.300 | 49.8 | 127.3 | 1.9 | 0.306 |
| 4-1350 | 4-2890 | 0.657 | 302.6 | -18.0 | 1.17 | 1.311 | 119.0 | 0.776 | 3.213 | 292.5 | 556.8 | 0.719 | 5.707 | -0.70 | 0.302 | 48.8 | 128.5 | 1.9 | 0.310 |
| 4-1350 | 4-2910 | 0.671 | 303.6 | -17.9 | 1.15 | 1.311 | 119.7 | 0.781 | 3.227 | 290.8 | 557.0 | 0.707 | 5.747 | -0.70 | 0.304 | 47.9 | 129.8 | 1.9 | 0.315 |
| 4-1350 | 4-2930 | 0.685 | 304.6 | -17.7 | 1.13 | 1.312 | 120.5 | 0.786 | 3.241 | 289.2 | 557.2 | 0.694 | 5.789 | -0.70 | 0.306 | 47.0 | 131.1 | 1.8 | 0.320 |
| 4-1350 | 4-2950 | 0.700 | 305.6 | -17.6 | 1.10 | 1.312 | 121.4 | 0.791 | 3.256 | 287.5 | 557.3 | 0.681 | 5.831 | -0.70 | 0.308 | 46.2 | 132.5 | 1.8 | 0.325 |
| 4-1360 | 4-1700 | 0.616 | 277.4 | -24.3 | -0.44 | 1.514 | 106.0 | 1.243 | -3.778 | 331.1 | 478.9 | 0.919 | --- | 1.65 | 0.808 | 159.9 | 142.2 | 2.5 | 0.796 |
| 4-1360 | 4-1720 | 0.574 | 276.0 | -24.7 | -0.53 | 1.482 | 104.8 | 1.159 | -5.831 | 332.4 | 481.9 | 0.927 | --- | 1.74 | 0.748 | 158.5 | 142.5 | 2.5 | 0.736 |
| 4-1360 | 4-1740 | 0.537 | 274.6 | -25.1 | -0.64 | 1.456 | 103.7 | 1.088 | 10.607 | 333.7 | 484.8 | 0.934 | --- | 1.83 | 0.695 | 157.0 | 142.8 | 2.6 | 0.683 |
| 4-1360 | 4-1760 | 0.506 | 273.1 | -25.5 | -0.76 | 1.434 | 102.7 | 1.028 | 33.465 | 334.9 | 487.7 | 0.940 | --- | 1.93 | 0.647 | 155.5 | 143.1 | 2.7 | 0.634 |
| 4-1360 | 4-1780 | 0.479 | 271.7 | -26.0 | -0.89 | 1.415 | 101.8 | 0.977 | 41.444 | 336.1 | 490.6 | 0.945 | --- | 2.05 | 0.605 | 153.9 | 143.3 | 2.8 | 0.591 |
| 4-1360 | 4-1800 | 0.456 | 270.3 | -26.6 | -1.04 | 1.399 | 101.0 | 0.934 | 14.334 | 337.2 | 493.4 | 0.950 | --- | 2.19 | 0.566 | 152.2 | 143.4 | 2.9 | 0.551 |
| 4-1360 | 4-1820 | 0.435 | 268.9 | -27.3 | -1.22 | 1.385 | 100.3 | 0.897 | 9.219 | 338.2 | 496.2 | 0.954 | --- | 2.35 | 0.531 | 150.4 | 143.5 | 3.0 | 0.516 |
| 4-1360 | 4-1840 | 0.418 | 267.6 | -28.0 | -1.42 | 1.373 | 99.7 | 0.865 | 7.069 | 339.2 | 498.8 | 0.957 | --- | 2.54 | 0.500 | 148.5 | 143.5 | 3.2 | 0.483 |
| 4-1360 | 4-1860 | 0.404 | 266.4 | -28.9 | -1.66 | 1.363 | 99.1 | 0.837 | 5.894 | 340.0 | 501.4 | 0.960 | --- | 2.77 | 0.471 | 146.5 | 143.4 | 3.4 | 0.453 |
| 4-1360 | 4-1880 | 0.391 | 265.2 | -30.0 | -1.95 | 1.354 | 98.6 | 0.813 | 5.159 | 340.8 | 503.9 | 0.963 | --- | 3.04 | 0.445 | 144.4 | 143.2 | 3.7 | 0.426 |
| 4-1360 | 4-1900 | 0.381 | 264.1 | -31.4 | -2.30 | 1.346 | 98.2 | 0.793 | 4.658 | 341.5 | 506.4 | 0.965 | --- | 3.38 | 0.422 | 142.3 | 142.9 | 4.0 | 0.401 |
| 4-1360 | 4-1920 | 0.372 | 263.1 | -33.1 | -2.74 | 1.339 | 97.8 | 0.775 | 4.299 | 342.2 | 508.7 | 0.966 | --- | 3.80 | 0.401 | 140.0 | 142.6 | 4.5 | 0.379 |
| 4-1360 | 4-1940 | 0.366 | 262.2 | -35.3 | -3.31 | 1.333 | 97.5 | 0.760 | 4.031 | 342.7 | 511.0 | 0.968 | --- | 4.36 | 0.382 | 137.7 | 142.1 | 5.0 | 0.358 |
| 4-1360 | 4-1960 | 0.362 | 261.4 | -38.2 | -4.07 | 1.328 | 97.2 | 0.747 | 3.824 | 343.1 | 513.2 | 0.969 | --- | 5.11 | 0.365 | 135.3 | 141.5 | 5.8 | 0.339 |
| 4-1360 | 4-1980 | 0.362 | 260.7 | -42.3 | -5.17 | 1.324 | 97.0 | 0.735 | 3.662 | 343.5 | 515.3 | 0.970 | --- | 6.19 | 0.349 | 132.8 | 140.8 | 6.9 | 0.323 |
| 4-1360 | 4-2000 | 0.369 | 260.0 | -48.3 | -6.85 | 1.320 | 96.8 | 0.725 | 3.533 | 343.8 | 517.3 | 0.971 | --- | 7.86 | 0.335 | 130.2 | 140.0 | 8.5 | 0.308 |
| 4-1360 | 4-2020 | 0.390 | 259.6 | -57.8 | -9.76 | 1.317 | 96.7 | 0.717 | 3.428 | 344.0 | 519.2 | 0.971 | --- | 10.76 | 0.323 | 127.6 | 138.9 | 11.3 | 0.297 |
| 4-1360 | 4-2040 | 0.463 | 261.4 | -74.4 | -16.03 | 1.314 | 96.6 | 0.709 | 3.342 | 344.1 | 521.1 | 0.971 | --- | 17.01 | 0.311 | 124.9 | 137.2 | 16.8 | 0.295 |
| 4-1360 | 4-2060 | 0.806 | 61.8 | -72.9 | -37.32 | 1.312 | 96.5 | 0.703 | 3.271 | 344.3 | 522.9 | 0.972 | --- | 38.29 | 0.302 | 122.2 | 131.3 | 29.5 | 0.346 |
| 4-1360 | 4-2080 | 1.101 | 311.4 | 66.7 | 54.45 | 1.310 | 96.8 | 0.698 | 3.212 | 343.5 | 524.6 | 0.970 | --- | -53.49 | 0.293 | 119.6 | 124.0 | -28.5 | 0.398 |
| 4-1360 | 4-2100 | 0.531 | 271.1 | 37.4 | 20.92 | 1.308 | 96.7 | 0.693 | 3.164 | 343.6 | 526.2 | 0.971 | --- | -19.98 | 0.286 | 116.8 | 132.1 | -16.4 | 0.272 |
| 4-1360 | 4-2120 | 0.416 | 266.6 | 20.3 | 12.79 | 1.306 | 96.7 | 0.689 | 3.123 | 343.5 | 527.8 | 0.971 | --- | -11.86 | 0.279 | 114.1 | 132.3 | -10.0 | 0.247 |
| 4-1360 | 4-2140 | 0.377 | 265.3 | 10.5 | 9.31 | 1.305 | 96.8 | 0.686 | 3.090 | 343.3 | 529.3 | 0.970 | --- | -8.40 | 0.274 | 111.3 | 131.4 | -6.8 | 0.235 |
| 4-1360 | 4-2160 | 0.359 | 265.0 | 4.3 | 7.40 | 1.304 | 96.9 | 0.683 | 3.062 | 342.9 | 530.8 | 0.970 | --- | -6.49 | 0.269 | 108.6 | 130.3 | -5.0 | 0.227 |
| 4-1360 | 4-2180 | 0.350 | 265.1 | 0.1 | 6.18 | 1.303 | 97.1 | 0.681 | 3.039 | 342.6 | 532.2 | 0.969 | --- | -5.29 | 0.265 | 106.0 | 128.9 | -3.7 | 0.220 |
| 4-1360 | 4-2200 | 0.346 | 265.5 | -3.0 | 5.35 | 1.302 | 97.2 | 0.680 | 3.020 | 342.1 | 533.5 | 0.968 | --- | -4.47 | 0.262 | 103.3 | 127.6 | -2.9 | 0.215 |
| 4-1360 | 4-2220 | 0.343 | 266.0 | -5.3 | 4.73 | 1.301 | 97.4 | 0.678 | 3.005 | 341.6 | 534.8 | 0.967 | --- | -3.87 | 0.259 | 100.8 | 126.2 | -2.2 | 0.211 |
| 4-1360 | 4-2240 | 0.343 | 266.7 | -7.2 | 4.26 | 1.301 | 97.6 | 0.677 | 2.993 | 341.0 | 536.0 | 0.966 | --- | -3.42 | 0.257 | 98.3 | 124.8 | -1.7 | 0.208 |
| 4-1360 | 4-2260 | 0.343 | 267.4 | -8.7 | 3.89 | 1.300 | 97.9 | 0.677 | 2.984 | 340.4 | 537.2 | 0.964 | --- | -3.06 | 0.256 | 95.9 | 123.5 | -1.2 | 0.206 |
| 4-1360 | 4-2280 | 0.344 | 268.3 | -9.9 | 3.59 | 1.300 | 98.2 | 0.677 | 2.977 | 339.7 | 538.3 | 0.963 | --- | -2.77 | 0.255 | 93.5 | 122.3 | -0.9 | 0.205 |
| 4-1360 | 4-2300 | 0.346 | 269.2 | -10.9 | 3.34 | 1.300 | 98.4 | 0.677 | 2.972 | 339.0 | 539.4 | 0.961 | --- | -2.53 | 0.255 | 91.2 | 121.1 | -0.5 | 0.204 |
| 4-1360 | 4-2320 | 0.348 | 270.2 | -11.8 | 3.13 | 1.300 | 98.7 | 0.677 | 2.969 | 338.3 | 540.5 | 0.959 | 4.980 | -2.34 | 0.255 | 89.0 | 120.0 | -0.3 | 0.203 |
| 4-1360 | 4-2340 | 0.351 | 271.3 | -12.6 | 2.94 | 1.300 | 99.1 | 0.678 | 2.968 | 337.5 | 541.5 | 0.957 | 4.980 | -2.17 | 0.255 | 86.9 | 119.0 | -0.0 | 0.204 |
| 4-1360 | 4-2360 | 0.354 | 272.4 | -13.3 | 2.79 | 1.300 | 99.4 | 0.678 | 2.968 | 336.6 | 542.4 | 0.954 | 4.982 | -2.03 | 0.256 | 84.9 | 118.1 | 0.2 | 0.204 |
| 4-1360 | 4-2380 | 0.358 | 273.6 | -13.9 | 2.65 | 1.300 | 99.8 | 0.679 | 2.970 | 335.7 | 543.4 | 0.952 | 4.988 | -1.90 | 0.256 | 82.9 | 117.3 | 0.4 | 0.206 |
| 4-1360 | 4-2400 | 0.362 | 274.8 | -14.4 | 2.52 | 1.300 | 100.2 | 0.681 | 2.973 | 334.8 | 544.3 | 0.949 | 4.996 | -1.79 | 0.257 | 81.0 | 116.6 | 0.5 | 0.207 |
| 4-1360 | 4-2420 | 0.367 | 276.0 | -14.9 | 2.41 | 1.300 | 100.6 | 0.682 | 2.977 | 333.9 | 545.1 | 0.946 | 5.007 | -1.70 | 0.259 | 79.2 | 116.1 | 0.7 | 0.209 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1360 | 4-2440 | 0.372 | 277.3 | -15.3 | 2.32 | 1.300 | 101.0 | 0.684 | 2.981 | 332.9 | 546.0 | 0.943 | 5.020 | -1.62 | 0.260 | 77.5 | 115.6 | 0.8 | 0.211 |
| 4-1360 | 4-2460 | 0.377 | 278.6 | -15.7 | 2.23 | 1.301 | 101.4 | 0.685 | 2.987 | 331.8 | 546.7 | 0.940 | 5.035 | -1.54 | 0.262 | 75.9 | 115.3 | 0.9 | 0.214 |
| 4-1360 | 4-2480 | 0.383 | 279.9 | -16.0 | 2.14 | 1.301 | 101.9 | 0.687 | 2.994 | 330.8 | 547.5 | 0.936 | 5.051 | -1.47 | 0.263 | 74.3 | 115.1 | 1.1 | 0.217 |
| 4-1360 | 4-2500 | 0.389 | 281.2 | -16.3 | 2.07 | 1.301 | 102.3 | 0.689 | 3.001 | 329.7 | 548.2 | 0.932 | 5.070 | -1.41 | 0.265 | 72.7 | 115.0 | 1.1 | 0.220 |
| 4-1360 | 4-2520 | 0.396 | 282.5 | -16.5 | 2.00 | 1.301 | 102.8 | 0.692 | 3.009 | 328.5 | 548.9 | 0.928 | 5.090 | -1.36 | 0.267 | 71.3 | 115.0 | 1.2 | 0.223 |
| 4-1360 | 4-2540 | 0.403 | 283.8 | -16.7 | 1.93 | 1.302 | 103.3 | 0.694 | 3.017 | 327.4 | 549.6 | 0.923 | 5.111 | -1.31 | 0.269 | 69.9 | 115.1 | 1.3 | 0.226 |
| 4-1360 | 4-2560 | 0.410 | 285.2 | -16.9 | 1.87 | 1.302 | 103.8 | 0.696 | 3.026 | 326.2 | 550.2 | 0.919 | 5.134 | -1.27 | 0.271 | 68.5 | 115.3 | 1.4 | 0.229 |
| 4-1360 | 4-2580 | 0.417 | 286.5 | -17.0 | 1.82 | 1.303 | 104.3 | 0.699 | 3.036 | 325.0 | 550.9 | 0.914 | 5.158 | -1.23 | 0.273 | 67.2 | 115.6 | 1.4 | 0.233 |
| 4-1360 | 4-2600 | 0.425 | 287.8 | -17.2 | 1.76 | 1.303 | 104.9 | 0.702 | 3.046 | 323.7 | 551.5 | 0.908 | 5.183 | -1.19 | 0.275 | 66.0 | 116.0 | 1.5 | 0.237 |
| 4-1360 | 4-2620 | 0.434 | 289.1 | -17.3 | 1.71 | 1.303 | 105.4 | 0.705 | 3.056 | 322.4 | 552.0 | 0.903 | 5.209 | -1.16 | 0.277 | 64.7 | 116.4 | 1.5 | 0.240 |
| 4-1360 | 4-2640 | 0.442 | 290.4 | -17.3 | 1.67 | 1.304 | 106.0 | 0.708 | 3.067 | 321.2 | 552.5 | 0.897 | 5.237 | -1.13 | 0.279 | 63.6 | 117.0 | 1.6 | 0.244 |
| 4-1360 | 4-2660 | 0.451 | 291.7 | -17.4 | 1.62 | 1.304 | 106.5 | 0.711 | 3.078 | 319.8 | 553.1 | 0.890 | 5.266 | -1.10 | 0.281 | 62.4 | 117.6 | 1.6 | 0.248 |
| 4-1360 | 4-2680 | 0.460 | 293.0 | -17.4 | 1.58 | 1.305 | 107.1 | 0.714 | 3.089 | 318.5 | 553.5 | 0.884 | 5.295 | -1.08 | 0.283 | 61.3 | 118.2 | 1.6 | 0.252 |
| 4-1360 | 4-2700 | 0.470 | 294.3 | -17.4 | 1.54 | 1.305 | 107.7 | 0.717 | 3.101 | 317.1 | 554.0 | 0.877 | 5.326 | -1.05 | 0.285 | 60.3 | 119.0 | 1.7 | 0.256 |
| 4-1360 | 4-2720 | 0.480 | 295.6 | -17.4 | 1.50 | 1.306 | 108.4 | 0.721 | 3.113 | 315.7 | 554.5 | 0.870 | 5.357 | -1.03 | 0.287 | 59.2 | 119.8 | 1.7 | 0.260 |
| 4-1360 | 4-2740 | 0.490 | 296.8 | -17.4 | 1.46 | 1.306 | 109.0 | 0.724 | 3.126 | 314.3 | 554.9 | 0.862 | 5.389 | -1.01 | 0.289 | 58.2 | 120.6 | 1.7 | 0.265 |
| 4-1360 | 4-2760 | 0.501 | 298.1 | -17.4 | 1.42 | 1.307 | 109.6 | 0.728 | 3.138 | 312.9 | 555.3 | 0.854 | 5.422 | -1.00 | 0.292 | 57.3 | 121.5 | 1.7 | 0.269 |
| 4-1360 | 4-2780 | 0.511 | 299.3 | -17.3 | 1.39 | 1.307 | 110.3 | 0.732 | 3.151 | 311.4 | 555.6 | 0.846 | 5.456 | -0.98 | 0.294 | 56.3 | 122.5 | 1.7 | 0.273 |
| 4-1360 | 4-2800 | 0.523 | 300.5 | -17.2 | 1.35 | 1.308 | 111.0 | 0.735 | 3.164 | 309.9 | 556.0 | 0.837 | 5.491 | -0.96 | 0.295 | 55.4 | 123.5 | 1.7 | 0.277 |
| 4-1360 | 4-2820 | 0.534 | 301.7 | -17.2 | 1.32 | 1.308 | 111.6 | 0.739 | 3.177 | 308.4 | 556.3 | 0.828 | 5.526 | -0.95 | 0.297 | 54.4 | 124.5 | 1.7 | 0.282 |
| 4-1360 | 4-2840 | 0.546 | 302.9 | -17.1 | 1.29 | 1.309 | 112.3 | 0.743 | 3.191 | 306.9 | 556.6 | 0.819 | 5.563 | -0.94 | 0.299 | 53.5 | 125.6 | 1.7 | 0.286 |
| 4-1360 | 4-2860 | 0.558 | 304.1 | -17.0 | 1.26 | 1.309 | 113.0 | 0.747 | 3.204 | 305.4 | 556.9 | 0.809 | 5.599 | -0.93 | 0.301 | 52.7 | 126.8 | 1.7 | 0.290 |
| 4-1360 | 4-2880 | 0.570 | 305.2 | -16.9 | 1.23 | 1.310 | 113.8 | 0.752 | 3.218 | 303.8 | 557.2 | 0.799 | 5.637 | -0.92 | 0.303 | 51.8 | 127.9 | 1.7 | 0.295 |
| 4-1360 | 4-2900 | 0.583 | 306.4 | -16.7 | 1.20 | 1.310 | 114.5 | 0.756 | 3.232 | 302.2 | 557.4 | 0.789 | 5.675 | -0.91 | 0.305 | 50.9 | 129.1 | 1.7 | 0.299 |
| 4-1360 | 4-2920 | 0.596 | 307.5 | -16.6 | 1.17 | 1.311 | 115.2 | 0.760 | 3.246 | 300.7 | 557.6 | 0.778 | 5.714 | -0.91 | 0.307 | 50.1 | 130.4 | 1.6 | 0.303 |
| 4-1360 | 4-2940 | 0.609 | 308.6 | -16.5 | 1.14 | 1.311 | 116.0 | 0.765 | 3.260 | 299.0 | 557.8 | 0.767 | 5.754 | -0.90 | 0.308 | 49.3 | 131.7 | 1.6 | 0.308 |
| 4-1360 | 4-2960 | 0.622 | 309.7 | -16.3 | 1.11 | 1.312 | 116.8 | 0.769 | 3.275 | 297.4 | 558.0 | 0.755 | 6.794 | -0.89 | 0.310 | 48.5 | 133.0 | 1.6 | 0.312 |
| 4-1370 | 4-1690 | 0.603 | 278.1 | -24.0 | -0.31 | 1.542 | 102.4 | 1.338 | -2.812 | 338.4 | 475.2 | 0.949 | --- | 1.52 | 0.862 | 160.4 | 142.8 | 2.4 | 0.847 |
| 4-1370 | 4-1710 | 0.557 | 276.3 | -24.3 | -0.38 | 1.506 | 101.2 | 1.235 | -4.071 | 339.8 | 478.3 | 0.956 | --- | 1.57 | 0.796 | 159.1 | 143.1 | 2.4 | 0.781 |
| 4-1370 | 4-1730 | 0.518 | 274.5 | -24.6 | -0.45 | 1.476 | 100.1 | 1.149 | -6.438 | 341.2 | 481.4 | 0.961 | --- | 1.62 | 0.737 | 157.8 | 143.5 | 2.5 | 0.722 |
| 4-1370 | 4-1750 | 0.485 | 272.7 | -25.0 | -0.53 | 1.450 | 99.0 | 1.078 | 12.415 | 342.6 | 484.5 | 0.966 | --- | 1.68 | 0.685 | 156.3 | 143.7 | 2.5 | 0.670 |
| 4-1370 | 4-1770 | 0.457 | 270.8 | -25.3 | -0.61 | 1.428 | 98.1 | 1.018 | 55.052 | 343.9 | 487.5 | 0.970 | --- | 1.75 | 0.638 | 154.8 | 143.9 | 2.6 | 0.622 |
| 4-1370 | 4-1790 | 0.433 | 268.9 | -25.7 | -0.70 | 1.410 | 97.3 | 0.967 | 29.271 | 345.1 | 490.4 | 0.973 | --- | 1.82 | 0.596 | 153.1 | 144.1 | 2.6 | 0.580 |
| 4-1370 | 4-1810 | 0.412 | 267.1 | -26.1 | -0.80 | 1.394 | 96.6 | 0.924 | 12.760 | 346.3 | 493.3 | 0.976 | --- | 1.90 | 0.559 | 151.4 | 144.2 | 2.7 | 0.541 |
| 4-1370 | 4-1830 | 0.395 | 265.4 | -26.6 | -0.91 | 1.381 | 95.9 | 0.887 | 8.631 | 347.4 | 496.1 | 0.978 | --- | 2.00 | 0.525 | 149.6 | 144.2 | 2.8 | 0.506 |
| 4-1370 | 4-1850 | 0.380 | 263.7 | -27.0 | -1.04 | 1.369 | 95.3 | 0.855 | 6.766 | 348.4 | 498.9 | 0.980 | --- | 2.10 | 0.494 | 147.7 | 144.2 | 3.0 | 0.474 |
| 4-1370 | 4-1870 | 0.367 | 262.1 | -27.6 | -1.17 | 1.359 | 94.8 | 0.828 | 5.711 | 349.4 | 501.5 | 0.981 | --- | 2.22 | 0.466 | 145.7 | 144.0 | 3.1 | 0.445 |
| 4-1370 | 4-1890 | 0.356 | 260.6 | -28.2 | -1.32 | 1.350 | 94.4 | 0.805 | 5.037 | 350.2 | 504.1 | 0.983 | --- | 2.36 | 0.441 | 143.6 | 143.8 | 3.3 | 0.418 |
| 4-1370 | 4-1910 | 0.347 | 259.3 | -28.9 | -1.50 | 1.343 | 94.0 | 0.785 | 4.573 | 350.9 | 506.6 | 0.984 | --- | 2.51 | 0.418 | 141.4 | 143.5 | 3.5 | 0.394 |
| 4-1370 | 4-1930 | 0.339 | 258.1 | -29.7 | -1.69 | 1.336 | 93.7 | 0.768 | 4.237 | 351.6 | 508.9 | 0.985 | --- | 2.69 | 0.397 | 139.2 | 143.1 | 3.7 | 0.371 |
| 4-1370 | 4-1950 | 0.333 | 257.0 | -30.6 | -1.92 | 1.331 | 93.4 | 0.753 | 3.985 | 352.1 | 511.2 | 0.985 | --- | 2.91 | 0.378 | 136.8 | 142.6 | 4.0 | 0.351 |
| 4-1370 | 4-1970 | 0.328 | 256.1 | -31.8 | -2.19 | 1.326 | 93.2 | 0.740 | 3.790 | 352.6 | 513.4 | 0.986 | --- | 3.16 | 0.362 | 134.4 | 142.0 | 4.3 | 0.332 |
| 4-1370 | 4-1990 | 0.324 | 255.3 | -33.1 | -2.52 | 1.322 | 93.0 | 0.729 | 3.636 | 352.9 | 515.5 | 0.986 | --- | 3.47 | 0.346 | 131.9 | 141.4 | 4.8 | 0.316 |
| 4-1370 | 4-2010 | 0.321 | 254.6 | -34.8 | -2.91 | 1.318 | 92.8 | 0.719 | 3.512 | 353.2 | 517.5 | 0.986 | --- | 3.85 | 0.333 | 129.3 | 140.6 | 5.3 | 0.300 |
| 4-1370 | 4-2030 | 0.319 | 254.0 | -36.8 | -3.40 | 1.315 | 92.8 | 0.711 | 3.412 | 353.4 | 519.5 | 0.986 | --- | 4.32 | 0.321 | 126.7 | 139.7 | 5.9 | 0.286 |
| 4-1370 | 4-2050 | 0.319 | 253.5 | -39.5 | -4.03 | 1.312 | 92.7 | 0.704 | 3.331 | 353.5 | 521.3 | 0.987 | --- | 4.94 | 0.310 | 124.1 | 138.7 | 6.7 | 0.274 |
| 4-1370 | 4-2070 | 0.322 | 253.0 | -42.9 | -4.88 | 1.310 | 92.7 | 0.698 | 3.263 | 353.5 | 523.1 | 0.987 | --- | 5.77 | 0.301 | 121.4 | 137.6 | 7.7 | 0.263 |
| 4-1370 | 4-2090 | 0.328 | 252.5 | -47.6 | -6.07 | 1.308 | 92.7 | 0.692 | 3.207 | 353.4 | 524.8 | 0.987 | --- | 6.94 | 0.293 | 118.7 | 136.4 | 9.1 | 0.254 |
| 4-1370 | 4-2110 | 0.342 | 251.7 | -54.2 | -7.86 | 1.306 | 92.7 | 0.688 | 3.161 | 353.3 | 526.5 | 0.986 | --- | 8.72 | 0.285 | 115.9 | 135.0 | 11.2 | 0.247 |
| 4-1370 | 4-2130 | 0.372 | 250.1 | -64.1 | -10.90 | 1.304 | 92.8 | 0.684 | 3.123 | 353.1 | 528.0 | 0.986 | --- | 11.74 | 0.279 | 113.2 | 133.6 | 14.6 | 0.244 |
| 4-1370 | 4-2150 | 0.454 | 242.1 | -79.8 | -17.06 | 1.303 | 92.9 | 0.681 | 3.091 | 352.9 | 529.5 | 0.986 | --- | 17.89 | 0.274 | 110.5 | 131.6 | 20.7 | 0.250 |
| 4-1370 | 4-2170 | 0.755 | 78.1 | -72.5 | -35.19 | 1.302 | 92.9 | 0.678 | 3.064 | 352.7 | 531.0 | 0.986 | --- | 36.00 | 0.270 | 107.9 | 127.4 | 32.1 | 0.305 |
| 4-1370 | 4-2190 | 1.372 | 353.4 | 74.8 | 71.50 | 1.301 | 93.5 | 0.676 | 3.043 | 351.2 | 532.3 | 0.985 | --- | -70.71 | 0.266 | 105.4 | 118.5 | -29.8 | 0.450 |
| 4-1370 | 4-2210 | 0.605 | 271.9 | 49.5 | 26.45 | 1.301 | 93.5 | 0.675 | 3.025 | 351.3 | 533.7 | 0.985 | --- | -25.68 | 0.263 | 102.7 | 125.3 | -22.8 | 0.260 |
| 4-1370 | 4-2230 | 0.432 | 266.3 | 29.9 | 15.46 | 1.300 | 93.7 | 0.673 | 3.011 | 350.8 | 534.9 | 0.984 | --- | -14.70 | 0.261 | 100.2 | 125.6 | -14.3 | 0.225 |
| 4-1370 | 4-2250 | 0.374 | 265.1 | 18.0 | 10.97 | 1.299 | 93.9 | 0.672 | 3.000 | 350.3 | 536.2 | 0.984 | --- | -10.23 | 0.259 | 97.8 | 124.8 | -9.8 | 0.214 |
| 4-1370 | 4-2270 | 0.349 | 265.1 | 10.2 | 8.56 | 1.299 | 94.1 | 0.671 | 2.991 | 349.7 | 537.3 | 0.983 | --- | -7.83 | 0.258 | 95.4 | 123.7 | -7.1 | 0.208 |
| 4-1370 | 4-2290 | 0.337 | 265.5 | 4.8 | 7.05 | 1.299 | 94.4 | 0.671 | 2.985 | 349.0 | 538.5 | 0.982 | --- | -6.35 | 0.257 | 93.1 | 122.6 | -5.4 | 0.205 |
| 4-1370 | 4-2310 | 0.330 | 266.3 | 0.9 | 6.03 | 1.299 | 94.7 | 0.671 | 2.981 | 348.3 | 539.5 | 0.981 | --- | -5.34 | 0.257 | 90.9 | 121.5 | -4.1 | 0.203 |
| 4-1370 | 4-2330 | 0.327 | 267.3 | -2.1 | 5.28 | 1.299 | 95.0 | 0.671 | 2.979 | 347.6 | 540.6 | 0.980 | 4.978 | -4.60 | 0.257 | 88.8 | 120.4 | -3.2 | 0.203 |
| 4-1370 | 4-2350 | 0.326 | 268.4 | -4.4 | 4.71 | 1.299 | 95.3 | 0.671 | 2.978 | 346.7 | 541.6 | 0.979 | 4.978 | -4.05 | 0.258 | 86.8 | 119.5 | -2.5 | 0.202 |
| 4-1370 | 4-2370 | 0.326 | 269.6 | -6.3 | 4.26 | 1.299 | 95.7 | 0.672 | 2.979 | 345.9 | 542.5 | 0.977 | 4.981 | -3.62 | 0.258 | 84.8 | 118.7 | -1.9 | 0.203 |
| 4-1370 | 4-2390 | 0.327 | 270.9 | -7.9 | 3.90 | 1.299 | 96.0 | 0.673 | 2.981 | 345.0 | 543.5 | 0.976 | 4.987 | -3.28 | 0.259 | 82.9 | 117.9 | -1.4 | 0.204 |
| 4-1370 | 4-2410 | 0.329 | 272.2 | -9.2 | 3.60 | 1.299 | 96.4 | 0.674 | 2.985 | 344.1 | 544.4 | 0.974 | 4.995 | -2.99 | 0.260 | 81.1 | 117.3 | -1.0 | 0.205 |
| 4-1370 | 4-2430 | 0.332 | 273.6 | -10.3 | 3.35 | 1.299 | 96.8 | 0.675 | 2.989 | 343.1 | 545.2 | 0.972 | 5.006 | -2.76 | 0.262 | 79.4 | 116.8 | -0.7 | 0.207 |
| 4-1370 | 4-2450 | 0.335 | 275.1 | -11.2 | 3.13 | 1.299 | 97.2 | 0.676 | 2.994 | 342.1 | 546.0 | 0.970 | 5.019 | -2.56 | 0.263 | 77.7 | 116.4 | -0.4 | 0.209 |
| 4-1370 | 4-2470 | 0.339 | 276.6 | -12.0 | 2.94 | 1.299 | 97.6 | 0.677 | 3.000 | 341.1 | 546.8 | 0.968 | 5.033 | -2.39 | 0.265 | 76.2 | 116.1 | -0.2 | 0.211 |
| 4-1370 | 4-2490 | 0.343 | 278.1 | -12.7 | 2.78 | 1.300 | 98.1 | 0.679 | 3.007 | 340.0 | 547.6 | 0.965 | 5.049 | -2.24 | 0.266 | 74.6 | 115.9 | 0.1 | 0.214 |
| 4-1370 | 4-2510 | 0.347 | 279.7 | -13.3 | 2.63 | 1.300 | 98.5 | 0.681 | 3.015 | 338.9 | 548.3 | 0.962 | 5.067 | -2.11 | 0.268 | 73.2 | 115.8 | 0.3 | 0.216 |
| 4-1370 | 4-2530 | 0.352 | 281.2 | -13.8 | 2.50 | 1.300 | 99.0 | 0.683 | 3.023 | 337.8 | 549.0 | 0.959 | 5.086 | -2.00 | 0.270 | 71.8 | 115.8 | 0.4 | 0.219 |
| 4-1370 | 4-2550 | 0.357 | 282.8 | -14.3 | 2.39 | 1.301 | 99.5 | 0.685 | 3.032 | 336.7 | 549.7 | 0.956 | 5.107 | -1.90 | 0.272 | 70.4 | 115.9 | 0.6 | 0.222 |
| 4-1370 | 4-2570 | 0.363 | 284.4 | -14.7 | 2.28 | 1.301 | 100.0 | 0.687 | 3.041 | 335.5 | 550.4 | 0.953 | 5.129 | -1.81 | 0.274 | 69.2 | 116.1 | 0.7 | 0.225 |
| 4-1370 | 4-2590 | 0.369 | 286.0 | -15.0 | 2.18 | 1.302 | 100.5 | 0.689 | 3.051 | 334.3 | 551.0 | 0.949 | 5.153 | -1.73 | 0.276 | 67.9 | 116.4 | 0.8 | 0.229 |
| 4-1370 | 4-2610 | 0.376 | 287.5 | -15.3 | 2.09 | 1.302 | 101.0 | 0.691 | 3.061 | 333.0 | 551.6 | 0.945 | 5.177 | -1.66 | 0.278 | 66.7 | 116.8 | 0.9 | 0.232 |
| 4-1370 | 4-2630 | 0.383 | 289.1 | -15.5 | 2.01 | 1.302 | 101.5 | 0.694 | 3.072 | 331.8 | 552.2 | 0.941 | 5.202 | -1.60 | 0.280 | 65.6 | 117.2 | 1.0 | 0.236 |
| 4-1370 | 4-2650 | 0.390 | 290.7 | -15.7 | 1.94 | 1.303 | 102.1 | 0.696 | 3.083 | 330.5 | 552.7 | 0.937 | 5.229 | -1.54 | 0.282 | 64.5 | 117.8 | 1.1 | 0.239 |
| 4-1370 | 4-2670 | 0.398 | 292.2 | -15.8 | 1.86 | 1.303 | 102.6 | 0.699 | 3.094 | 329.2 | 553.2 | 0.932 | 5.257 | -1.49 | 0.284 | 63.4 | 118.4 | 1.1 | 0.243 |
| 4-1370 | 4-2690 | 0.405 | 293.7 | -15.9 | 1.80 | 1.304 | 103.2 | 0.702 | 3.106 | 327.9 | 553.7 | 0.927 | 5.285 | -1.44 | 0.286 | 62.4 | 119.0 | 1.2 | 0.247 |
| 4-1370 | 4-2710 | 0.414 | 295.3 | -16.0 | 1.74 | 1.304 | 103.8 | 0.705 | 3.118 | 326.5 | 554.2 | 0.921 | 5.314 | -1.40 | 0.288 | 61.4 | 119.8 | 1.2 | 0.250 |
| 4-1370 | 4-2730 | 0.422 | 296.7 | -16.1 | 1.68 | 1.305 | 104.4 | 0.707 | 3.130 | 325.1 | 554.7 | 0.916 | 5.345 | -1.36 | 0.290 | 60.4 | 120.6 | 1.3 | 0.254 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1370 | 4-2750 | 0.431 | 298.2 | -16.1 | 1.62 | 1.305 | 105.0 | 0.711 | 3.143 | 323.7 | 555.1 | 0.910 | 5.376 | -1.33 | 0.292 | 59.4 | 121.4 | 1.3 | 0.258 |
| 4-1370 | 4-2770 | 0.441 | 299.7 | -16.1 | 1.57 | 1.306 | 105.6 | 0.714 | 3.155 | 322.3 | 555.5 | 0.903 | 5.408 | -1.29 | 0.294 | 58.5 | 122.3 | 1.4 | 0.262 |
| 4-1370 | 4-2790 | 0.450 | 301.1 | -16.0 | 1.52 | 1.306 | 106.2 | 0.717 | 3.168 | 320.9 | 555.9 | 0.897 | 5.440 | -1.27 | 0.296 | 57.6 | 123.2 | 1.4 | 0.266 |
| 4-1370 | 4-2810 | 0.460 | 302.5 | -16.0 | 1.47 | 1.307 | 106.8 | 0.720 | 3.182 | 319.4 | 556.3 | 0.890 | 5.473 | -1.24 | 0.298 | 56.8 | 124.2 | 1.4 | 0.270 |
| 4-1370 | 4-2830 | 0.470 | 303.9 | -15.9 | 1.42 | 1.307 | 107.5 | 0.724 | 3.195 | 318.0 | 556.7 | 0.882 | 5.508 | -1.21 | 0.300 | 55.9 | 125.3 | 1.4 | 0.274 |
| 4-1370 | 4-2850 | 0.481 | 305.3 | -15.8 | 1.38 | 1.308 | 108.2 | 0.727 | 3.209 | 316.5 | 557.0 | 0.875 | 5.542 | -1.19 | 0.302 | 55.1 | 126.3 | 1.4 | 0.278 |
| 4-1370 | 4-2870 | 0.492 | 306.6 | -15.7 | 1.34 | 1.308 | 108.8 | 0.731 | 3.222 | 315.0 | 557.3 | 0.867 | 5.578 | -1.17 | 0.304 | 54.2 | 127.5 | 1.4 | 0.282 |
| 4-1370 | 4-2890 | 0.503 | 307.9 | -15.6 | 1.30 | 1.309 | 109.5 | 0.735 | 3.236 | 313.4 | 557.6 | 0.858 | 5.614 | -1.15 | 0.306 | 53.4 | 128.6 | 1.4 | 0.286 |
| 4-1370 | 4-2910 | 0.514 | 309.2 | -15.5 | 1.26 | 1.309 | 110.2 | 0.739 | 3.250 | 311.9 | 557.9 | 0.850 | 5.650 | -1.14 | 0.307 | 52.6 | 129.8 | 1.4 | 0.290 |
| 4-1370 | 4-2930 | 0.526 | 310.5 | -15.3 | 1.22 | 1.310 | 110.9 | 0.742 | 3.264 | 310.3 | 558.1 | 0.841 | 5.688 | -1.12 | 0.309 | 51.9 | 131.0 | 1.4 | 0.294 |
| 4-1370 | 4-2950 | 0.538 | 311.7 | -15.2 | 1.18 | 1.310 | 111.6 | 0.746 | 3.278 | 308.8 | 558.4 | 0.831 | 5.726 | -1.11 | 0.311 | 51.1 | 132.2 | 1.4 | 0.298 |
| 4-1370 | 4-2970 | 0.550 | 312.9 | -15.0 | 1.14 | 1.311 | 112.4 | 0.751 | 3.293 | 307.2 | 558.6 | 0.821 | 5.764 | -1.09 | 0.313 | 50.3 | 133.5 | 1.4 | 0.302 |
| 4-1380 | 4-1680 | 0.599 | 277.1 | -23.9 | -0.24 | 1.573 | 98.3 | 1.446 | -2.183 | 345.9 | 471.9 | 0.974 | --- | 1.43 | 0.919 | 161.0 | 143.2 | 2.3 | 0.902 |
| 4-1380 | 4-1700 | 0.551 | 275.0 | -24.2 | -0.29 | 1.531 | 97.1 | 1.321 | -3.049 | 347.5 | 475.1 | 0.978 | --- | 1.46 | 0.846 | 159.8 | 143.6 | 2.3 | 0.829 |
| 4-1380 | 4-1720 | 0.510 | 272.7 | -24.4 | -0.35 | 1.496 | 96.0 | 1.218 | -4.500 | 349.0 | 478.3 | 0.982 | --- | 1.50 | 0.781 | 158.5 | 143.9 | 2.4 | 0.764 |
| 4-1380 | 4-1740 | 0.475 | 270.3 | -24.7 | -0.41 | 1.467 | 95.1 | 1.133 | -7.388 | 350.5 | 481.5 | 0.984 | --- | 1.54 | 0.724 | 157.1 | 144.2 | 2.4 | 0.706 |
| 4-1380 | 4-1760 | 0.446 | 268.0 | -24.9 | -0.47 | 1.442 | 94.1 | 1.06 | 215.787 | 352.0 | 484.7 | 0.987 | --- | 1.58 | 0.673 | 155.6 | 144.4 | 2.5 | 0.655 |
| 4-1380 | 4-1780 | 0.422 | 265.6 | -25.2 | -0.54 | 1.421 | 93.3 | 1.00 | 399.193 | 353.4 | 487.8 | 0.988 | --- | 1.62 | 0.627 | 154.1 | 144.6 | 2.5 | 0.609 |
| 4-1380 | 4-1800 | 0.402 | 263.3 | -25.4 | -0.61 | 1.404 | 92.6 | 0.95 | 421.282 | 354.7 | 490.8 | 0.989 | --- | 1.67 | 0.586 | 152.4 | 144.7 | 2.6 | 0.567 |
| 4-1380 | 4-1820 | 0.384 | 261.0 | -25.6 | -0.68 | 1.388 | 91.9 | 0.91 | 111.171 | 355.9 | 493.8 | 0.990 | --- | 1.73 | 0.549 | 150.7 | 144.7 | 2.6 | 0.529 |
| 4-1380 | 4-1840 | 0.370 | 258.9 | -25.9 | -0.76 | 1.375 | 91.4 | 0.876 | 7.963 | 357.1 | 496.6 | 0.991 | --- | 1.79 | 0.515 | 148.8 | 144.7 | 2.7 | 0.495 |
| 4-1380 | 4-1860 | 0.358 | 256.9 | -26.1 | -0.85 | 1.364 | 90.8 | 0.845 | 6.398 | 358.1 | 499.4 | 0.991 | --- | 1.85 | 0.485 | 146.9 | 144.6 | 2.8 | 0.464 |
| 4-1380 | 4-1880 | 0.347 | 255.1 | -26.4 | -0.94 | 1.354 | 90.4 | 0.819 | 5.479 | 359.1 | 502.1 | 0.992 | --- | 1.93 | 0.458 | 144.9 | 144.4 | 3.0 | 0.435 |
| 4-1380 | 4-1900 | 0.339 | 253.5 | -26.7 | -1.04 | 1.346 | 90.0 | 0.797 | 4.878 | 360.0 | 504.7 | 0.992 | --- | 2.01 | 0.433 | 142.8 | 144.2 | 3.1 | 0.409 |
| 4-1380 | 4-1920 | 0.331 | 252.0 | -27.1 | -1.15 | 1.339 | 89.7 | 0.778 | 4.458 | 0.7 | 147.2 | --- | --- | 2.10 | 0.411 | 140.6 | 143.8 | 3.2 | 0.385 |
| 4-1380 | 4-1940 | 0.325 | 250.7 | -27.5 | -1.27 | 1.333 | 89.4 | 0.761 | 4.150 | 1.4 | 149.6 | --- | --- | 2.20 | 0.391 | 138.3 | 143.4 | 3.4 | 0.364 |
| 4-1380 | 4-1960 | 0.320 | 249.5 | -28.0 | -1.40 | 1.327 | 89.2 | 0.747 | 3.917 | 1.9 | 151.8 | --- | --- | 2.31 | 0.373 | 135.9 | 142.8 | 3.6 | 0.344 |
| 4-1380 | 4-1980 | 0.316 | 248.6 | -28.6 | -1.55 | 1.323 | 89.0 | 0.735 | 3.736 | 2.4 | 154.0 | --- | --- | 2.44 | 0.357 | 133.5 | 142.2 | 3.8 | 0.326 |
| 4-1380 | 4-2000 | 0.312 | 247.8 | -29.2 | -1.72 | 1.319 | 88.9 | 0.724 | 3.593 | 2.7 | 156.1 | --- | --- | 2.59 | 0.342 | 130.9 | 141.4 | 4.1 | 0.309 |
| 4-1380 | 4-2020 | 0.309 | 247.1 | -30.0 | -1.91 | 1.315 | 88.8 | 0.715 | 3.478 | 3.0 | 158.1 | --- | --- | 2.76 | 0.329 | 128.4 | 140.6 | 4.4 | 0.294 |
| 4-1380 | 4-2040 | 0.307 | 246.7 | -31.0 | -2.13 | 1.312 | 88.7 | 0.707 | 3.384 | 3.1 | 160.1 | --- | --- | 2.96 | 0.317 | 125.7 | 139.7 | 4.7 | 0.281 |
| 4-1380 | 4-2060 | 0.305 | 246.3 | -32.0 | -2.38 | 1.310 | 88.7 | 0.700 | 3.308 | 3.2 | 161.9 | --- | --- | 3.19 | 0.307 | 123.1 | 138.6 | 5.1 | 0.269 |
| 4-1380 | 4-2080 | 0.304 | 246.1 | -33.4 | -2.67 | 1.307 | 88.7 | 0.695 | 3.245 | 3.2 | 163.7 | --- | --- | 3.47 | 0.298 | 120.4 | 137.5 | 5.5 | 0.258 |
| 4-1380 | 4-2100 | 0.303 | 246.0 | -34.9 | -3.02 | 1.305 | 88.7 | 0.690 | 3.192 | 3.1 | 165.3 | --- | --- | 3.80 | 0.290 | 117.7 | 136.3 | 6.1 | 0.248 |
| 4-1380 | 4-2120 | 0.303 | 245.9 | -36.8 | -3.45 | 1.304 | 88.8 | 0.685 | 3.149 | 2.9 | 166.9 | --- | --- | 4.21 | 0.284 | 115.0 | 135.1 | 6.7 | 0.240 |
| 4-1380 | 4-2140 | 0.304 | 246.0 | -39.1 | -3.99 | 1.302 | 88.9 | 0.682 | 3.113 | 2.7 | 168.5 | --- | --- | 4.73 | 0.278 | 112.3 | 133.7 | 7.5 | 0.232 |
| 4-1380 | 4-2160 | 0.307 | 246.0 | -42.1 | -4.67 | 1.301 | 89.0 | 0.679 | 3.084 | 2.4 | 170.0 | --- | --- | 5.40 | 0.273 | 109.6 | 132.4 | 8.4 | 0.226 |
| 4-1380 | 4-2180 | 0.312 | 245.9 | -45.8 | -5.58 | 1.300 | 89.2 | 0.676 | 3.059 | 2.0 | 171.4 | --- | --- | 6.29 | 0.269 | 107.0 | 131.0 | 9.6 | 0.221 |
| 4-1380 | 4-2200 | 0.321 | 245.6 | -50.8 | -6.86 | 1.299 | 89.4 | 0.674 | 3.039 | 1.6 | 172.7 | --- | --- | 7.54 | 0.266 | 104.4 | 129.6 | 11.3 | 0.218 |
| 4-1380 | 4-2220 | 0.339 | 244.6 | -57.7 | -8.77 | 1.299 | 89.5 | 0.672 | 3.023 | 1.1 | 174.0 | --- | --- | 9.44 | 0.263 | 101.9 | 128.2 | 13.7 | 0.217 |
| 4-1380 | 4-2240 | 0.375 | 241.0 | -67.7 | -11.95 | 1.298 | 89.8 | 0.671 | 3.011 | 0.6 | 175.3 | --- | --- | 12.60 | 0.261 | 99.4 | 126.8 | 17.3 | 0.219 |
| 4-1380 | 4-2260 | 0.464 | 215.7 | -81.9 | -18.24 | 1.298 | 90.0 | 0.670 | 3.001 | 0.1 | 176.5 | --- | --- | 18.88 | 0.260 | 97.0 | 125.3 | 23.5 | 0.233 |
| 4-1380 | 4-2280 | 0.756 | 89.3 | -70.4 | -35.53 | 1.297 | 90.2 | 0.669 | 2.994 | 359.6 | 537.6 | 0.992 | --- | 36.15 | 0.259 | 94.7 | 123.3 | 33.8 | 0.293 |
| 4-1380 | 4-2300 | 1.496 | 31.7 | 77.9 | 79.83 | 1.297 | 91.0 | 0.668 | 2.988 | 357.5 | 538.7 | 0.991 | --- | -79.24 | 0.258 | 92.6 | 118.8 | -29.1 | 0.482 |
| 4-1380 | 4-2320 | 0.665 | 270.4 | 56.4 | 30.31 | 1.297 | 91.0 | 0.668 | 2.985 | 357.5 | 539.8 | 0.991 | --- | -29.73 | 0.258 | 90.4 | 120.5 | -26.1 | 0.266 |
| 4-1380 | 4-2340 | 0.452 | 265.8 | 35.6 | 17.36 | 1.297 | 91.3 | 0.668 | 2.984 | 356.8 | 540.8 | 0.991 | 4.977 | -16.80 | 0.258 | 88.3 | 120.2 | -16.9 | 0.223 |
| 4-1380 | 4-2360 | 0.379 | 265.3 | 22.6 | 12.14 | 1.297 | 91.6 | 0.668 | 2.984 | 356.0 | 541.8 | 0.991 | 4.978 | -11.60 | 0.259 | 86.4 | 119.6 | -11.6 | 0.212 |
| 4-1380 | 4-2380 | 0.348 | 265.8 | 13.9 | 9.36 | 1.297 | 91.9 | 0.668 | 2.986 | 355.2 | 542.8 | 0.990 | 4.981 | -8.84 | 0.260 | 84.5 | 118.8 | -8.4 | 0.207 |
| 4-1380 | 4-2400 | 0.332 | 266.7 | 7.9 | 7.64 | 1.297 | 92.3 | 0.669 | 2.989 | 354.3 | 543.7 | 0.990 | 4.988 | -7.14 | 0.261 | 82.6 | 118.2 | -6.3 | 0.206 |
| 4-1380 | 4-2420 | 0.324 | 267.9 | 3.4 | 6.48 | 1.297 | 92.7 | 0.670 | 2.993 | 353.4 | 544.6 | 0.989 | 4.996 | -5.99 | 0.262 | 80.9 | 117.6 | -4.8 | 0.206 |
| 4-1380 | 4-2440 | 0.320 | 269.3 | 0.0 | 5.63 | 1.298 | 93.0 | 0.670 | 2.998 | 352.4 | 545.4 | 0.988 | 5.007 | -5.16 | 0.264 | 79.3 | 117.2 | -3.7 | 0.207 |
| 4-1380 | 4-2460 | 0.318 | 270.8 | -2.7 | 4.99 | 1.298 | 93.5 | 0.671 | 3.003 | 351.4 | 546.2 | 0.987 | 5.020 | -4.54 | 0.265 | 77.7 | 116.8 | -2.9 | 0.208 |
| 4-1380 | 4-2480 | 0.317 | 272.4 | -4.8 | 4.48 | 1.298 | 93.9 | 0.672 | 3.010 | 350.4 | 547.0 | 0.986 | 5.034 | -4.05 | 0.267 | 76.1 | 116.6 | -2.3 | 0.210 |
| 4-1380 | 4-2500 | 0.318 | 274.1 | -6.6 | 4.08 | 1.298 | 94.3 | 0.674 | 3.017 | 349.3 | 547.8 | 0.985 | 5.050 | -3.66 | 0.269 | 74.7 | 116.4 | -1.7 | 0.212 |
| 4-1380 | 4-2520 | 0.320 | 275.9 | -8.0 | 3.74 | 1.299 | 94.7 | 0.675 | 3.025 | 348.2 | 548.5 | 0.983 | 5.068 | -3.35 | 0.270 | 73.3 | 116.4 | -1.3 | 0.215 |
| 4-1380 | 4-2540 | 0.322 | 277.7 | -9.2 | 3.45 | 1.299 | 95.2 | 0.677 | 3.034 | 347.1 | 549.2 | 0.981 | 5.087 | -3.08 | 0.272 | 72.0 | 116.4 | -0.9 | 0.217 |
| 4-1380 | 4-2560 | 0.325 | 279.5 | -10.2 | 3.21 | 1.299 | 95.7 | 0.678 | 3.043 | 345.9 | 549.9 | 0.980 | 5.107 | -2.86 | 0.274 | 70.7 | 116.6 | -0.6 | 0.220 |
| 4-1380 | 4-2580 | 0.329 | 281.3 | -11.1 | 3.00 | 1.300 | 96.2 | 0.680 | 3.053 | 344.8 | 550.5 | 0.977 | 5.129 | -2.67 | 0.276 | 69.5 | 116.8 | -0.4 | 0.223 |
| 4-1380 | 4-2600 | 0.333 | 283.2 | -11.8 | 2.82 | 1.300 | 96.7 | 0.682 | 3.063 | 343.5 | 551.2 | 0.975 | 5.151 | -2.50 | 0.278 | 68.3 | 117.1 | -0.1 | 0.226 |
| 4-1380 | 4-2620 | 0.337 | 285.0 | -12.5 | 2.66 | 1.301 | 97.2 | 0.684 | 3.074 | 342.3 | 551.8 | 0.973 | 5.175 | -2.36 | 0.280 | 67.2 | 117.5 | 0.1 | 0.229 |
| 4-1380 | 4-2640 | 0.342 | 286.9 | -13.0 | 2.51 | 1.301 | 97.7 | 0.686 | 3.085 | 341.1 | 552.3 | 0.970 | 5.200 | -2.23 | 0.283 | 66.1 | 118.0 | 0.2 | 0.233 |
| 4-1380 | 4-2660 | 0.348 | 288.7 | -13.4 | 2.38 | 1.302 | 98.2 | 0.688 | 3.096 | 339.8 | 552.9 | 0.967 | 5.226 | -2.12 | 0.285 | 65.0 | 118.5 | 0.4 | 0.236 |
| 4-1380 | 4-2680 | 0.353 | 290.6 | -13.8 | 2.26 | 1.302 | 98.8 | 0.690 | 3.108 | 338.5 | 553.4 | 0.963 | 5.253 | -2.03 | 0.287 | 64.0 | 119.1 | 0.5 | 0.239 |
| 4-1380 | 4-2700 | 0.360 | 292.4 | -14.0 | 2.15 | 1.303 | 99.3 | 0.692 | 3.120 | 337.2 | 553.9 | 0.960 | 5.280 | -1.94 | 0.289 | 63.0 | 119.8 | 0.6 | 0.243 |
| 4-1380 | 4-2720 | 0.366 | 294.2 | -14.3 | 2.05 | 1.303 | 99.9 | 0.695 | 3.132 | 335.8 | 554.4 | 0.956 | 5.309 | -1.86 | 0.291 | 62.1 | 120.5 | 0.7 | 0.246 |
| 4-1380 | 4-2740 | 0.373 | 296.0 | -14.4 | 1.96 | 1.304 | 100.4 | 0.697 | 3.145 | 334.5 | 554.9 | 0.952 | 5.338 | -1.79 | 0.293 | 61.2 | 121.3 | 0.8 | 0.250 |
| 4-1380 | 4-2760 | 0.381 | 297.8 | -14.6 | 1.88 | 1.304 | 101.0 | 0.700 | 3.158 | 333.1 | 555.4 | 0.947 | 5.368 | -1.72 | 0.295 | 60.3 | 122.1 | 0.9 | 0.253 |
| 4-1380 | 4-2780 | 0.388 | 299.5 | -14.6 | 1.80 | 1.305 | 101.6 | 0.703 | 3.171 | 331.7 | 555.8 | 0.943 | 5.399 | -1.67 | 0.297 | 59.4 | 123.0 | 0.9 | 0.257 |
| 4-1380 | 4-2800 | 0.396 | 301.2 | -14.7 | 1.72 | 1.305 | 102.2 | 0.705 | 3.184 | 330.3 | 556.2 | 0.938 | 5.430 | -1.61 | 0.299 | 58.6 | 124.0 | 1.0 | 0.260 |
| 4-1380 | 4-2820 | 0.405 | 302.9 | -14.7 | 1.65 | 1.306 | 102.8 | 0.708 | 3.197 | 328.9 | 556.6 | 0.932 | 5.462 | -1.57 | 0.301 | 57.8 | 124.9 | 1.0 | 0.264 |
| 4-1380 | 4-2840 | 0.414 | 304.5 | -14.7 | 1.59 | 1.306 | 103.5 | 0.711 | 3.211 | 327.4 | 557.0 | 0.927 | 5.495 | -1.52 | 0.303 | 57.0 | 126.0 | 1.0 | 0.268 |
| 4-1380 | 4-2860 | 0.423 | 306.1 | -14.6 | 1.53 | 1.307 | 104.1 | 0.714 | 3.225 | 325.9 | 557.3 | 0.921 | 5.528 | -1.48 | 0.304 | 56.2 | 127.0 | 1.1 | 0.271 |
| 4-1380 | 4-2880 | 0.432 | 307.7 | -14.5 | 1.47 | 1.307 | 104.8 | 0.718 | 3.238 | 324.5 | 557.7 | 0.914 | 5.562 | -1.45 | 0.306 | 55.5 | 128.1 | 1.1 | 0.275 |
| 4-1380 | 4-2900 | 0.442 | 309.2 | -14.4 | 1.41 | 1.308 | 105.4 | 0.721 | 3.252 | 323.0 | 558.0 | 0.908 | 5.597 | -1.41 | 0.308 | 54.7 | 129.3 | 1.1 | 0.279 |
| 4-1380 | 4-2920 | 0.452 | 310.7 | -14.3 | 1.36 | 1.308 | 106.1 | 0.724 | 3.267 | 321.4 | 558.3 | 0.901 | 5.632 | -1.38 | 0.310 | 54.0 | 130.4 | 1.1 | 0.282 |
| 4-1380 | 4-2940 | 0.463 | 312.2 | -14.1 | 1.31 | 1.309 | 106.8 | 0.728 | 3.281 | 319.9 | 558.6 | 0.893 | 5.668 | -1.36 | 0.312 | 53.3 | 131.6 | 1.1 | 0.286 |
| 4-1380 | 4-2960 | 0.473 | 313.7 | -14.0 | 1.26 | 1.309 | 107.4 | 0.731 | 3.295 | 318.4 | 558.8 | 0.886 | 5.705 | -1.33 | 0.313 | 52.5 | 132.9 | 1.1 | 0.290 |
| 4-1380 | 4-2980 | 0.484 | 315.1 | -13.8 | 1.21 | 1.310 | 108.1 | 0.735 | 3.310 | 316.8 | 559.1 | 0.878 | 5.742 | -1.31 | 0.315 | 51.8 | 134.1 | 1.1 | 0.294 |
| 4-1390 | 4-1670 | 0.611 | 274.6 | -23.9 | -0.19 | 1.608 | 93.8 | 1.569 | -1.741 | 353.8 | 468.9 | 0.991 | --- | 1.38 | 0.980 | 161.7 | 143.6 | 2.3 | 0.961 |
| 4-1390 | 4-1690 | 0.559 | 272.0 | -24.1 | -0.24 | 1.560 | 92.7 | 1.417 | -2.380 | 355.4 | 472.2 | 0.992 | --- | 1.40 | 0.899 | 160.5 | 143.9 | 2.3 | 0.880 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1390 | 4-1710 | 0.516 | 269.2 | -24.3 | -0.29 | 1.519 | 91.6 | 1.294 | -3.379 | 357.1 | 475.6 | 0.993 | --- | 1.42 | 0.827 | 159.3 | 144.2 | 2.3 | 0.808 |
| 4-1390 | 4-1730 | 0.481 | 266.4 | -24.4 | -0.33 | 1.486 | 90.7 | 1.194 | -5.131 | 358.7 | 478.9 | 0.994 | --- | 1.44 | 0.764 | 158.0 | 144.5 | 2.3 | 0.745 |
| 4-1390 | 4-1750 | 0.452 | 263.5 | -24.6 | -0.38 | 1.457 | 89.8 | 1.111 | -8.940 | 0.3 | 122.2 | --- | --- | 1.47 | 0.708 | 156.5 | 144.7 | 2.4 | 0.689 |
| 4-1390 | 4-1770 | 0.428 | 260.7 | -24.6 | -0.44 | 1.433 | 89.0 | 1.043 | 23.219 | 1.9 | 125.4 | --- | --- | 1.50 | 0.658 | 155.0 | 144.8 | 2.4 | 0.639 |
| 4-1390 | 4-1790 | 0.408 | 258.0 | -24.7 | -0.49 | 1.413 | 88.3 | 0.986 | 70.225 | 3.4 | 128.6 | --- | --- | 1.53 | 0.613 | 153.5 | 145.0 | 2.5 | 0.594 |
| 4-1390 | 4-1810 | 0.392 | 255.4 | -24.7 | -0.55 | 1.396 | 87.7 | 0.938 | 16.027 | 4.8 | 131.7 | --- | --- | 1.56 | 0.573 | 151.8 | 145.0 | 2.5 | 0.553 |
| 4-1390 | 4-1830 | 0.378 | 253.0 | -24.8 | -0.61 | 1.382 | 87.1 | 0.898 | 9.706 | 6.1 | 134.8 | --- | --- | 1.60 | 0.537 | 150.0 | 145.0 | 2.6 | 0.517 |
| 4-1390 | 4-1850 | 0.367 | 250.7 | -24.8 | -0.67 | 1.369 | 86.6 | 0.864 | 7.275 | 7.3 | 137.7 | --- | --- | 1.64 | 0.504 | 148.2 | 144.9 | 2.7 | 0.483 |
| 4-1390 | 4-1870 | 0.358 | 248.7 | -24.8 | -0.74 | 1.358 | 86.2 | 0.835 | 5.996 | 8.4 | 140.5 | --- | --- | 1.68 | 0.475 | 146.2 | 144.7 | 2.8 | 0.453 |
| 4-1390 | 4-1890 | 0.350 | 246.8 | -24.9 | -0.81 | 1.349 | 85.8 | 0.810 | 5.214 | 9.3 | 143.2 | --- | --- | 1.73 | 0.448 | 144.1 | 144.5 | 2.9 | 0.425 |
| 4-1390 | 4-1910 | 0.344 | 245.2 | -25.0 | -0.88 | 1.341 | 85.5 | 0.789 | 4.690 | 10.2 | 145.8 | --- | --- | 1.78 | 0.424 | 142.0 | 144.1 | 3.0 | 0.400 |
| 4-1390 | 4-1930 | 0.338 | 243.8 | -25.1 | -0.96 | 1.334 | 85.2 | 0.772 | 4.318 | 10.9 | 148.3 | --- | --- | 1.84 | 0.402 | 139.7 | 143.7 | 3.1 | 0.377 |
| 4-1390 | 4-1950 | 0.333 | 242.6 | -25.3 | -1.05 | 1.328 | 85.0 | 0.756 | 4.042 | 11.6 | 150.6 | --- | --- | 1.90 | 0.383 | 137.4 | 143.2 | 3.2 | 0.356 |
| 4-1390 | 4-1970 | 0.329 | 241.5 | -25.5 | -1.14 | 1.323 | 84.9 | 0.743 | 3.831 | 12.1 | 152.9 | --- | --- | 1.97 | 0.365 | 135.0 | 142.6 | 3.4 | 0.337 |
| 4-1390 | 4-1990 | 0.326 | 240.7 | -25.8 | -1.24 | 1.319 | 84.7 | 0.732 | 3.667 | 12.5 | 155.1 | --- | --- | 2.05 | 0.350 | 132.5 | 141.9 | 3.6 | 0.319 |
| 4-1390 | 4-2010 | 0.323 | 240.0 | -26.2 | -1.35 | 1.315 | 84.6 | 0.722 | 3.536 | 12.8 | 157.1 | --- | --- | 2.14 | 0.336 | 129.9 | 141.1 | 3.7 | 0.303 |
| 4-1390 | 4-2030 | 0.320 | 239.5 | -26.6 | -1.46 | 1.312 | 84.6 | 0.713 | 3.430 | 13.0 | 159.1 | --- | --- | 2.23 | 0.323 | 127.3 | 140.2 | 4.0 | 0.289 |
| 4-1390 | 4-2050 | 0.318 | 239.2 | -27.1 | -1.59 | 1.309 | 84.6 | 0.706 | 3.344 | 13.1 | 161.0 | --- | --- | 2.34 | 0.312 | 124.7 | 139.2 | 4.2 | 0.276 |
| 4-1390 | 4-2070 | 0.316 | 239.0 | -27.7 | -1.73 | 1.306 | 84.6 | 0.700 | 3.274 | 13.2 | 162.8 | --- | --- | 2.46 | 0.303 | 122.0 | 138.1 | 4.4 | 0.264 |
| 4-1390 | 4-2090 | 0.314 | 238.9 | -28.4 | -1.89 | 1.304 | 84.6 | 0.694 | 3.216 | 13.1 | 164.5 | --- | --- | 2.60 | 0.294 | 119.3 | 137.0 | 4.7 | 0.254 |
| 4-1390 | 4-2110 | 0.312 | 238.9 | -29.2 | -2.07 | 1.302 | 84.7 | 0.689 | 3.168 | 13.0 | 166.1 | --- | --- | 2.76 | 0.287 | 116.6 | 135.8 | 5.0 | 0.244 |
| 4-1390 | 4-2130 | 0.310 | 239.1 | -30.2 | -2.27 | 1.301 | 84.8 | 0.685 | 3.129 | 12.8 | 167.7 | --- | --- | 2.94 | 0.280 | 113.8 | 134.5 | 5.4 | 0.236 |
| 4-1390 | 4-2150 | 0.309 | 239.4 | -31.2 | -2.51 | 1.300 | 84.9 | 0.682 | 3.096 | 12.5 | 169.2 | --- | --- | 3.15 | 0.275 | 111.2 | 133.2 | 5.8 | 0.229 |
| 4-1390 | 4-2170 | 0.308 | 239.8 | -32.5 | -2.77 | 1.298 | 85.1 | 0.679 | 3.069 | 12.1 | 170.6 | --- | --- | 3.40 | 0.271 | 108.5 | 131.8 | 6.2 | 0.223 |
| 4-1390 | 4-2190 | 0.308 | 240.2 | -34.0 | -3.09 | 1.298 | 85.3 | 0.676 | 3.047 | 11.7 | 172.0 | --- | --- | 3.69 | 0.267 | 105.9 | 130.4 | 6.7 | 0.218 |
| 4-1390 | 4-2210 | 0.308 | 240.7 | -35.7 | -3.46 | 1.297 | 85.5 | 0.674 | 3.029 | 11.3 | 173.3 | --- | --- | 4.05 | 0.264 | 103.3 | 129.1 | 7.3 | 0.213 |
| 4-1390 | 4-2230 | 0.308 | 241.2 | -37.8 | -3.92 | 1.296 | 85.7 | 0.673 | 3.015 | 10.7 | 174.6 | --- | --- | 4.49 | 0.262 | 100.9 | 127.7 | 7.9 | 0.210 |
| 4-1390 | 4-2250 | 0.310 | 241.8 | -40.3 | -4.49 | 1.296 | 85.9 | 0.671 | 3.004 | 10.2 | 175.8 | --- | --- | 5.03 | 0.260 | 98.4 | 126.4 | 8.7 | 0.207 |
| 4-1390 | 4-2270 | 0.313 | 242.3 | -43.5 | -5.22 | 1.295 | 86.2 | 0.670 | 2.996 | 9.5 | 177.0 | --- | --- | 5.74 | 0.259 | 96.1 | 125.1 | 9.7 | 0.206 |
| 4-1390 | 4-2290 | 0.319 | 242.6 | -47.4 | -6.19 | 1.295 | 86.5 | 0.669 | 2.990 | 8.9 | 178.1 | --- | --- | 6.69 | 0.258 | 93.8 | 124.0 | 11.0 | 0.205 |
| 4-1390 | 4-2310 | 0.329 | 242.4 | -52.7 | -7.54 | 1.295 | 86.7 | 0.668 | 2.986 | 8.1 | 179.2 | --- | --- | 8.02 | 0.258 | 91.7 | 122.9 | 12.7 | 0.206 |
| 4-1390 | 4-2330 | 0.348 | 241.1 | -59.7 | -9.57 | 1.295 | 87.0 | 0.668 | 2.984 | 7.4 | 180.2 | --- | 4.978 | 10.03 | 0.258 | 89.6 | 121.9 | 15.1 | 0.208 |
| 4-1390 | 4-2350 | 0.388 | 235.8 | -69.6 | -12.93 | 1.295 | 87.4 | 0.668 | 2.984 | 6.6 | 181.2 | --- | 4.977 | 13.38 | 0.259 | 87.6 | 121.1 | 18.8 | 0.215 |
| 4-1390 | 4-2370 | 0.484 | 195.6 | -82.1 | -19.55 | 1.295 | 87.7 | 0.668 | 2.985 | 5.8 | 182.2 | --- | 4.979 | 19.97 | 0.259 | 85.6 | 120.6 | 25.0 | 0.233 |
| 4-1390 | 4-2390 | 0.785 | 96.5 | -67.9 | -37.31 | 1.295 | 87.9 | 0.668 | 2.988 | 5.1 | 183.1 | --- | 4.983 | 37.71 | 0.260 | 83.8 | 121.2 | 34.5 | 0.300 |
| 4-1390 | 4-2410 | 1.508 | 67.0 | 80.9 | 80.84 | 1.295 | 88.9 | 0.668 | 2.992 | 2.7 | 183.9 | --- | 4.989 | -80.46 | 0.262 | 82.2 | 121.7 | -28.9 | 0.489 |
| 4-1390 | 4-2430 | 0.691 | 267.1 | 58.8 | 31.88 | 1.295 | 89.0 | 0.668 | 2.996 | 2.4 | 184.8 | --- | 4.999 | -31.52 | 0.263 | 80.4 | 118.7 | -26.7 | 0.276 |
| 4-1390 | 4-2450 | 0.464 | 265.7 | 37.7 | 18.26 | 1.296 | 89.4 | 0.669 | 3.002 | 1.6 | 185.7 | --- | 5.010 | -17.92 | 0.265 | 78.8 | 117.7 | -17.5 | 0.231 |
| 4-1390 | 4-2470 | 0.385 | 266.2 | 24.4 | 12.71 | 1.296 | 89.7 | 0.670 | 3.009 | 0.7 | 186.5 | --- | 5.023 | -12.39 | 0.266 | 77.3 | 117.2 | -12.0 | 0.220 |
| 4-1390 | 4-2490 | 0.350 | 267.4 | 15.5 | 9.75 | 1.296 | 90.1 | 0.670 | 3.016 | 359.6 | 547.2 | 0.994 | 5.038 | -9.45 | 0.268 | 75.8 | 116.9 | -8.6 | 0.216 |
| 4-1390 | 4-2510 | 0.332 | 268.8 | 9.1 | 7.92 | 1.297 | 90.6 | 0.671 | 3.024 | 358.6 | 548.0 | 0.994 | 5.054 | -7.63 | 0.270 | 74.4 | 116.8 | -6.5 | 0.216 |
| 4-1390 | 4-2530 | 0.322 | 270.5 | 4.4 | 6.67 | 1.297 | 91.0 | 0.672 | 3.033 | 357.5 | 548.7 | 0.994 | 5.071 | -6.41 | 0.272 | 73.1 | 116.8 | -5.0 | 0.217 |
| 4-1390 | 4-2550 | 0.317 | 272.3 | 0.9 | 5.77 | 1.297 | 91.5 | 0.673 | 3.042 | 356.3 | 549.4 | 0.993 | 5.090 | -5.52 | 0.274 | 71.8 | 116.9 | -3.8 | 0.219 |
| 4-1390 | 4-2570 | 0.314 | 274.2 | -1.9 | 5.08 | 1.298 | 91.9 | 0.675 | 3.052 | 355.2 | 550.1 | 0.993 | 5.110 | -4.86 | 0.276 | 70.6 | 117.0 | -3.0 | 0.221 |
| 4-1390 | 4-2590 | 0.313 | 276.1 | -4.1 | 4.54 | 1.298 | 92.4 | 0.676 | 3.062 | 354.0 | 550.7 | 0.992 | 5.132 | -4.34 | 0.278 | 69.5 | 117.3 | -2.3 | 0.223 |
| 4-1390 | 4-2610 | 0.313 | 278.2 | -6.0 | 4.11 | 1.299 | 92.9 | 0.677 | 3.073 | 352.8 | 551.3 | 0.991 | 5.154 | -3.92 | 0.280 | 68.4 | 117.6 | -1.8 | 0.226 |
| 4-1390 | 4-2630 | 0.314 | 280.3 | -7.4 | 3.75 | 1.299 | 93.4 | 0.679 | 3.084 | 351.6 | 551.9 | 0.990 | 5.177 | -3.58 | 0.282 | 67.3 | 118.1 | -1.4 | 0.228 |
| 4-1390 | 4-2650 | 0.316 | 282.4 | -8.7 | 3.44 | 1.300 | 93.9 | 0.681 | 3.095 | 350.3 | 552.5 | 0.988 | 5.202 | -3.30 | 0.284 | 66.3 | 118.5 | -1.0 | 0.231 |
| 4-1390 | 4-2670 | 0.319 | 284.5 | -9.7 | 3.19 | 1.300 | 94.4 | 0.682 | 3.107 | 349.1 | 553.1 | 0.987 | 5.227 | -3.06 | 0.287 | 65.3 | 119.1 | -0.7 | 0.234 |
| 4-1390 | 4-2690 | 0.322 | 286.6 | -10.5 | 2.96 | 1.300 | 95.0 | 0.684 | 3.119 | 347.8 | 553.6 | 0.985 | 5.253 | -2.86 | 0.289 | 64.3 | 119.7 | -0.5 | 0.237 |
| 4-1390 | 4-2710 | 0.326 | 288.8 | -11.2 | 2.76 | 1.301 | 95.5 | 0.686 | 3.131 | 346.4 | 554.1 | 0.983 | 5.280 | -2.68 | 0.291 | 63.4 | 120.4 | -0.3 | 0.241 |
| 4-1390 | 4-2730 | 0.331 | 290.9 | -11.8 | 2.59 | 1.301 | 96.1 | 0.688 | 3.144 | 345.1 | 554.6 | 0.981 | 5.308 | -2.53 | 0.293 | 62.5 | 121.2 | -0.1 | 0.244 |
| 4-1390 | 4-2750 | 0.335 | 293.0 | -12.2 | 2.44 | 1.302 | 96.6 | 0.690 | 3.157 | 343.8 | 555.1 | 0.978 | 5.336 | -2.40 | 0.295 | 61.7 | 122.0 | 0.1 | 0.247 |
| 4-1390 | 4-2770 | 0.341 | 295.1 | -12.6 | 2.30 | 1.302 | 97.2 | 0.692 | 3.170 | 342.4 | 555.6 | 0.975 | 5.365 | -2.28 | 0.297 | 60.8 | 122.8 | 0.2 | 0.250 |
| 4-1390 | 4-2790 | 0.347 | 297.2 | -12.9 | 2.17 | 1.303 | 97.8 | 0.695 | 3.184 | 341.0 | 556.0 | 0.972 | 5.395 | -2.17 | 0.299 | 60.0 | 123.7 | 0.3 | 0.254 |
| 4-1390 | 4-2810 | 0.353 | 299.2 | -13.1 | 2.05 | 1.303 | 98.4 | 0.697 | 3.197 | 339.6 | 556.4 | 0.969 | 5.426 | -2.08 | 0.301 | 59.2 | 124.6 | 0.4 | 0.257 |
| 4-1390 | 4-2830 | 0.359 | 301.2 | -13.2 | 1.95 | 1.304 | 99.0 | 0.699 | 3.211 | 338.2 | 556.8 | 0.965 | 5.457 | -1.99 | 0.303 | 58.5 | 125.6 | 0.5 | 0.260 |
| 4-1390 | 4-2850 | 0.366 | 303.2 | -13.3 | 1.85 | 1.304 | 99.6 | 0.702 | 3.225 | 336.7 | 557.2 | 0.961 | 5.488 | -1.92 | 0.305 | 57.7 | 126.6 | 0.6 | 0.264 |
| 4-1390 | 4-2870 | 0.374 | 305.1 | -13.3 | 1.76 | 1.305 | 100.2 | 0.705 | 3.239 | 335.3 | 557.6 | 0.957 | 5.521 | -1.85 | 0.306 | 57.0 | 127.7 | 0.6 | 0.267 |
| 4-1390 | 4-2890 | 0.381 | 307.0 | -13.3 | 1.67 | 1.306 | 100.8 | 0.707 | 3.253 | 333.8 | 557.9 | 0.952 | 5.554 | -1.79 | 0.308 | 56.3 | 128.8 | 0.7 | 0.270 |
| 4-1390 | 4-2910 | 0.390 | 308.8 | -13.2 | 1.60 | 1.306 | 101.4 | 0.710 | 3.267 | 332.3 | 558.3 | 0.947 | 5.587 | -1.73 | 0.310 | 55.6 | 129.9 | 0.7 | 0.274 |
| 4-1390 | 4-2930 | 0.398 | 310.6 | -13.2 | 1.52 | 1.307 | 102.1 | 0.713 | 3.281 | 330.9 | 558.6 | 0.942 | 5.621 | -1.68 | 0.312 | 55.0 | 131.1 | 0.8 | 0.277 |
| 4-1390 | 4-2950 | 0.407 | 312.4 | -13.0 | 1.45 | 1.307 | 102.7 | 0.716 | 3.296 | 329.3 | 558.9 | 0.936 | 5.656 | -1.64 | 0.314 | 54.3 | 132.3 | 0.8 | 0.280 |
| 4-1390 | 4-2970 | 0.416 | 314.1 | -12.9 | 1.39 | 1.308 | 103.4 | 0.719 | 3.311 | 327.8 | 559.2 | 0.930 | 5.691 | -1.59 | 0.315 | 53.6 | 133.5 | 0.8 | 0.284 |
| 4-1390 | 4-2990 | 0.426 | 315.8 | -12.7 | 1.32 | 1.308 | 104.1 | 0.722 | 3.325 | 326.3 | 559.5 | 0.924 | 5.726 | -1.56 | 0.317 | 53.0 | 134.7 | 0.8 | 0.287 |
| 4-1400 | 4-1660 | 0.645 | 271.0 | -23.9 | -0.16 | 1.648 | 88.8 | 1.706 | -1.411 | 2.0 | 106.3 | --- | --- | 1.34 | 1.047 | 162.4 | 143.7 | 2.2 | 1.026 |
| 4-1400 | 4-1680 | 0.589 | 268.0 | -24.0 | -0.20 | 1.591 | 87.7 | 1.522 | -1.906 | 3.7 | 109.7 | --- | --- | 1.35 | 0.955 | 161.3 | 144.0 | 2.2 | 0.935 |
| 4-1400 | 4-1700 | 0.543 | 264.8 | -24.1 | -0.24 | 1.544 | 86.8 | 1.376 | -2.644 | 5.5 | 113.2 | --- | --- | 1.36 | 0.875 | 160.1 | 144.3 | 2.3 | 0.856 |
| 4-1400 | 4-1720 | 0.507 | 261.6 | -24.1 | -0.29 | 1.505 | 85.9 | 1.258 | -3.843 | 7.3 | 116.7 | --- | --- | 1.37 | 0.805 | 158.9 | 144.6 | 2.3 | 0.787 |
| 4-1400 | 4-1740 | 0.478 | 258.4 | -24.0 | -0.33 | 1.473 | 85.1 | 1.163 | -6.089 | 9.1 | 120.2 | --- | --- | 1.39 | 0.744 | 157.5 | 144.8 | 2.3 | 0.725 |
| 4-1400 | 4-1760 | 0.454 | 255.4 | -24.0 | -0.37 | 1.446 | 84.4 | 1.084 | 11.718 | 10.8 | 123.6 | --- | --- | 1.40 | 0.689 | 156.1 | 144.9 | 2.3 | 0.671 |
| 4-1400 | 4-1780 | 0.435 | 252.4 | -23.8 | -0.42 | 1.423 | 83.7 | 1.020 | 49.961 | 12.4 | 126.9 | --- | --- | 1.42 | 0.640 | 154.6 | 145.0 | 2.4 | 0.622 |
| 4-1400 | 4-1800 | 0.420 | 249.7 | -23.7 | -0.47 | 1.404 | 83.1 | 0.966 | 29.065 | 14.0 | 130.2 | --- | --- | 1.44 | 0.596 | 153.0 | 145.0 | 2.4 | 0.578 |
| 4-1400 | 4-1820 | 0.407 | 247.2 | -23.6 | -0.52 | 1.388 | 82.6 | 0.922 | 12.481 | 15.4 | 133.3 | --- | --- | 1.46 | 0.557 | 151.3 | 145.0 | 2.5 | 0.539 |
| 4-1400 | 4-1840 | 0.397 | 244.9 | -23.4 | -0.57 | 1.374 | 82.1 | 0.884 | 8.428 | 16.8 | 136.4 | --- | --- | 1.49 | 0.522 | 149.4 | 144.9 | 2.5 | 0.503 |
| 4-1400 | 4-1860 | 0.389 | 242.8 | -23.3 | -0.62 | 1.362 | 81.7 | 0.853 | 6.609 | 18.0 | 139.3 | --- | --- | 1.52 | 0.490 | 147.5 | 144.7 | 2.6 | 0.471 |
| 4-1400 | 4-1880 | 0.382 | 241.0 | -23.2 | -0.67 | 1.352 | 81.4 | 0.826 | 5.584 | 19.1 | 142.1 | --- | --- | 1.54 | 0.462 | 145.5 | 144.5 | 2.7 | 0.441 |
| 4-1400 | 4-1900 | 0.376 | 239.4 | -23.1 | -0.73 | 1.343 | 81.1 | 0.803 | 4.932 | 20.0 | 144.8 | --- | --- | 1.58 | 0.436 | 143.4 | 144.2 | 2.8 | 0.415 |
| 4-1400 | 4-1920 | 0.372 | 238.0 | -23.1 | -0.79 | 1.335 | 80.9 | 0.784 | 4.484 | 20.8 | 147.4 | --- | --- | 1.61 | 0.413 | 141.2 | 143.8 | 2.9 | 0.390 |
| 4-1400 | 4-1940 | 0.367 | 236.9 | -23.1 | -0.85 | 1.329 | 80.7 | 0.768 | 4.161 | 21.6 | 149.8 | --- | --- | 1.65 | 0.392 | 138.9 | 143.3 | 3.0 | 0.368 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1400 | 4-1960 | 0.364 | 235.9 | -23.1 | -0.92 | 1.323 | 80.5 | 0.754 | 3.918 | 22.1 | 152.1 | --- | --- | 1.69 | 0.373 | 136.5 | 142.7 | 3.1 | 0.348 |
| 4-1400 | 4-1980 | 0.361 | 235.1 | -23.2 | -0.99 | 1.318 | 80.4 | 0.742 | 3.731 | 22.6 | 154.4 | --- | --- | 1.74 | 0.356 | 134.1 | 142.0 | 3.2 | 0.329 |
| 4-1400 | 4-2000 | 0.358 | 234.5 | -23.4 | -1.06 | 1.314 | 80.3 | 0.731 | 3.584 | 23.0 | 156.5 | --- | --- | 1.78 | 0.341 | 131.5 | 141.2 | 3.4 | 0.313 |
| 4-1400 | 4-2020 | 0.355 | 234.0 | -23.6 | -1.14 | 1.311 | 80.3 | 0.722 | 3.466 | 23.2 | 158.5 | --- | --- | 1.84 | 0.328 | 128.9 | 140.3 | 3.5 | 0.297 |
| 4-1400 | 4-2040 | 0.352 | 233.7 | -23.9 | -1.22 | 1.308 | 80.3 | 0.714 | 3.371 | 23.4 | 160.4 | --- | --- | 1.90 | 0.316 | 126.3 | 139.4 | 3.7 | 0.284 |
| 4-1400 | 4-2060 | 0.349 | 233.5 | -24.2 | -1.31 | 1.305 | 80.3 | 0.708 | 3.294 | 23.4 | 162.2 | --- | --- | 1.96 | 0.305 | 123.5 | 138.3 | 3.9 | 0.271 |
| 4-1400 | 4-2080 | 0.347 | 233.4 | -24.6 | -1.40 | 1.303 | 80.4 | 0.702 | 3.231 | 23.4 | 163.9 | --- | --- | 2.04 | 0.296 | 120.8 | 137.2 | 4.1 | 0.260 |
| 4-1400 | 4-2100 | 0.345 | 233.5 | -25.0 | -1.51 | 1.301 | 80.5 | 0.697 | 3.178 | 23.3 | 165.6 | --- | --- | 2.12 | 0.288 | 118.1 | 136.0 | 4.3 | 0.250 |
| 4-1400 | 4-2120 | 0.342 | 233.6 | -25.5 | -1.62 | 1.299 | 80.6 | 0.692 | 3.135 | 23.1 | 167.2 | --- | --- | 2.21 | 0.281 | 115.3 | 134.8 | 4.5 | 0.241 |
| 4-1400 | 4-2140 | 0.340 | 233.9 | -26.1 | -1.74 | 1.298 | 80.7 | 0.689 | 3.100 | 22.8 | 168.7 | --- | --- | 2.31 | 0.275 | 112.6 | 133.5 | 4.7 | 0.234 |
| 4-1400 | 4-2160 | 0.337 | 234.3 | -26.7 | -1.88 | 1.296 | 80.9 | 0.685 | 3.071 | 22.5 | 170.1 | --- | --- | 2.42 | 0.271 | 109.9 | 132.1 | 5.0 | 0.227 |
| 4-1400 | 4-2180 | 0.335 | 234.7 | -27.5 | -2.03 | 1.295 | 81.1 | 0.683 | 3.047 | 22.1 | 171.5 | --- | --- | 2.55 | 0.267 | 107.2 | 130.8 | 5.3 | 0.221 |
| 4-1400 | 4-2200 | 0.333 | 235.3 | -28.3 | -2.19 | 1.295 | 81.3 | 0.680 | 3.028 | 21.6 | 172.8 | --- | --- | 2.69 | 0.263 | 104.6 | 129.4 | 5.5 | 0.216 |
| 4-1400 | 4-2220 | 0.331 | 235.9 | -29.2 | -2.38 | 1.294 | 81.5 | 0.678 | 3.013 | 21.1 | 174.1 | --- | --- | 2.86 | 0.261 | 102.1 | 128.1 | 5.8 | 0.212 |
| 4-1400 | 4-2240 | 0.329 | 236.6 | -30.3 | -2.59 | 1.293 | 81.8 | 0.676 | 3.001 | 20.5 | 175.3 | --- | --- | 3.04 | 0.259 | 99.6 | 126.8 | 6.2 | 0.209 |
| 4-1400 | 4-2260 | 0.327 | 237.4 | -31.5 | -2.83 | 1.293 | 82.0 | 0.675 | 2.992 | 19.9 | 176.5 | --- | --- | 3.26 | 0.258 | 97.2 | 125.5 | 6.5 | 0.206 |
| 4-1400 | 4-2280 | 0.325 | 238.2 | -32.9 | -3.11 | 1.293 | 82.3 | 0.674 | 2.985 | 19.2 | 177.6 | --- | --- | 3.52 | 0.257 | 94.9 | 124.3 | 6.9 | 0.205 |
| 4-1400 | 4-2300 | 0.324 | 239.1 | -34.4 | -3.44 | 1.293 | 82.6 | 0.672 | 2.981 | 18.5 | 178.7 | --- | --- | 3.83 | 0.257 | 92.7 | 123.2 | 7.4 | 0.203 |
| 4-1400 | 4-2320 | 0.323 | 240.0 | -36.3 | -3.83 | 1.292 | 82.9 | 0.672 | 2.979 | 17.7 | 179.7 | --- | --- | 4.20 | 0.257 | 90.6 | 122.2 | 7.9 | 0.203 |
| 4-1400 | 4-2340 | 0.323 | 240.9 | -38.5 | -4.31 | 1.292 | 83.2 | 0.671 | 2.978 | 16.9 | 180.7 | --- | 4.977 | 4.66 | 0.257 | 88.5 | 121.2 | 8.5 | 0.203 |
| 4-1400 | 4-2360 | 0.324 | 241.8 | -41.1 | -4.90 | 1.293 | 83.6 | 0.671 | 2.979 | 16.0 | 181.7 | --- | 4.977 | 5.23 | 0.258 | 86.6 | 120.4 | 9.3 | 0.203 |
| 4-1400 | 4-2380 | 0.327 | 242.7 | -44.3 | -5.67 | 1.293 | 83.9 | 0.670 | 2.982 | 15.2 | 182.6 | --- | 4.980 | 5.98 | 0.259 | 84.7 | 119.6 | 10.2 | 0.204 |
| 4-1400 | 4-2400 | 0.332 | 243.2 | -48.4 | -6.68 | 1.293 | 84.3 | 0.670 | 2.985 | 14.2 | 183.5 | --- | 4.986 | 6.97 | 0.260 | 82.9 | 119.0 | 11.4 | 0.206 |
| 4-1400 | 4-2420 | 0.343 | 243.3 | -53.8 | -8.11 | 1.293 | 84.7 | 0.670 | 2.990 | 13.3 | 184.4 | --- | 4.994 | 8.38 | 0.262 | 81.2 | 118.6 | 13.1 | 0.209 |
| 4-1400 | 4-2440 | 0.363 | 242.0 | -61.0 | -10.26 | 1.293 | 85.1 | 0.670 | 2.996 | 12.3 | 185.2 | --- | 5.004 | 10.50 | 0.263 | 79.6 | 118.3 | 15.4 | 0.214 |
| 4-1400 | 4-2460 | 0.406 | 235.6 | -71.0 | -13.84 | 1.294 | 85.4 | 0.671 | 3.002 | 11.4 | 186.0 | --- | 5.016 | 14.06 | 0.265 | 78.1 | 118.3 | 19.1 | 0.223 |
| 4-1400 | 4-2480 | 0.510 | 184.2 | -82.3 | -20.94 | 1.294 | 85.8 | 0.671 | 3.010 | 10.4 | 186.8 | --- | 5.029 | 21.15 | 0.267 | 76.6 | 119.0 | 25.3 | 0.243 |
| 4-1400 | 4-2500 | 0.837 | 101.6 | -65.1 | -40.24 | 1.294 | 86.2 | 0.671 | 3.018 | 9.6 | 187.6 | --- | 5.044 | 40.43 | 0.269 | 75.2 | 122.0 | 34.6 | 0.318 |
| 4-1400 | 4-2520 | 1.443 | 118.6 | 83.5 | 76.71 | 1.295 | 87.2 | 0.672 | 3.027 | 6.9 | 188.2 | --- | 5.059 | -76.54 | 0.271 | 74.0 | 125.4 | -29.5 | 0.478 |
| 4-1400 | 4-2540 | 0.681 | 264.1 | 57.6 | 31.32 | 1.295 | 87.4 | 0.672 | 3.036 | 6.5 | 189.0 | --- | 5.078 | -31.17 | 0.273 | 72.7 | 119.4 | -25.7 | 0.284 |
| 4-1400 | 4-2560 | 0.465 | 266.5 | 37.1 | 18.19 | 1.295 | 87.8 | 0.673 | 3.046 | 5.5 | 189.6 | --- | 5.097 | -18.07 | 0.275 | 71.4 | 118.0 | -16.8 | 0.243 |
| 4-1400 | 4-2580 | 0.387 | 268.2 | 24.0 | 12.70 | 1.296 | 88.2 | 0.674 | 3.056 | 4.4 | 190.3 | --- | 5.117 | -12.60 | 0.277 | 70.3 | 117.7 | -11.5 | 0.232 |
| 4-1400 | 4-2600 | 0.351 | 270.0 | 15.1 | 9.73 | 1.296 | 88.7 | 0.675 | 3.067 | 3.2 | 190.9 | --- | 5.138 | -9.65 | 0.279 | 69.2 | 117.9 | -8.3 | 0.230 |
| 4-1400 | 4-2620 | 0.333 | 271.9 | 8.9 | 7.88 | 1.297 | 89.2 | 0.676 | 3.079 | 2.0 | 191.6 | --- | 5.161 | -7.82 | 0.281 | 68.1 | 118.2 | -6.2 | 0.230 |
| 4-1400 | 4-2640 | 0.322 | 274.0 | 4.2 | 6.62 | 1.297 | 89.7 | 0.677 | 3.090 | 0.8 | 192.2 | --- | 5.184 | -6.58 | 0.284 | 67.1 | 118.6 | -4.8 | 0.231 |
| 4-1400 | 4-2660 | 0.316 | 276.2 | 0.7 | 5.70 | 1.298 | 90.2 | 0.679 | 3.102 | 359.5 | 552.7 | 0.997 | 5.208 | -5.68 | 0.286 | 66.1 | 119.1 | -3.7 | 0.233 |
| 4-1400 | 4-2680 | 0.313 | 278.4 | -2.0 | 5.00 | 1.298 | 90.7 | 0.680 | 3.115 | 358.3 | 553.3 | 0.997 | 5.233 | -5.00 | 0.288 | 65.2 | 119.7 | -2.9 | 0.235 |
| 4-1400 | 4-2700 | 0.312 | 280.7 | -4.2 | 4.45 | 1.299 | 91.2 | 0.681 | 3.127 | 357.0 | 553.8 | 0.996 | 5.258 | -4.47 | 0.290 | 64.3 | 120.3 | -2.3 | 0.238 |
| 4-1400 | 4-2720 | 0.311 | 283.0 | -5.9 | 4.00 | 1.299 | 91.8 | 0.683 | 3.140 | 355.7 | 554.3 | 0.996 | 5.285 | -4.05 | 0.292 | 63.5 | 121.0 | -1.8 | 0.240 |
| 4-1400 | 4-2740 | 0.312 | 285.4 | -7.3 | 3.63 | 1.300 | 92.3 | 0.684 | 3.153 | 354.3 | 554.8 | 0.995 | 5.312 | -3.70 | 0.294 | 62.6 | 121.8 | -1.4 | 0.243 |
| 4-1400 | 4-2760 | 0.314 | 287.8 | -8.5 | 3.32 | 1.300 | 92.9 | 0.686 | 3.167 | 353.0 | 555.3 | 0.994 | 5.339 | -3.41 | 0.296 | 61.8 | 122.6 | -1.0 | 0.246 |
| 4-1400 | 4-2780 | 0.316 | 290.2 | -9.4 | 3.06 | 1.301 | 93.4 | 0.688 | 3.180 | 351.6 | 555.8 | 0.993 | 5.368 | -3.16 | 0.298 | 61.1 | 123.4 | -0.8 | 0.249 |
| 4-1400 | 4-2800 | 0.319 | 292.5 | -10.1 | 2.83 | 1.301 | 94.0 | 0.690 | 3.194 | 350.2 | 556.2 | 0.991 | 5.397 | -2.96 | 0.300 | 60.3 | 124.3 | -0.5 | 0.252 |
| 4-1400 | 4-2820 | 0.322 | 294.9 | -10.7 | 2.62 | 1.302 | 94.6 | 0.692 | 3.208 | 348.8 | 556.6 | 0.989 | 5.426 | -2.78 | 0.302 | 59.6 | 125.3 | -0.3 | 0.255 |
| 4-1400 | 4-2840 | 0.327 | 297.2 | -11.2 | 2.45 | 1.302 | 95.1 | 0.694 | 3.222 | 347.4 | 557.1 | 0.987 | 5.457 | -2.62 | 0.304 | 58.9 | 126.3 | -0.2 | 0.258 |
| 4-1400 | 4-2860 | 0.331 | 299.6 | -11.5 | 2.29 | 1.303 | 95.7 | 0.696 | 3.236 | 346.0 | 557.5 | 0.985 | 5.488 | -2.48 | 0.306 | 58.2 | 127.3 | -0.0 | 0.261 |
| 4-1400 | 4-2880 | 0.336 | 301.8 | -11.8 | 2.14 | 1.303 | 96.3 | 0.698 | 3.251 | 344.6 | 557.8 | 0.982 | 5.519 | -2.36 | 0.308 | 57.5 | 128.4 | 0.1 | 0.264 |
| 4-1400 | 4-2900 | 0.342 | 304.1 | -11.9 | 2.01 | 1.304 | 96.9 | 0.700 | 3.265 | 343.1 | 558.2 | 0.979 | 5.551 | -2.25 | 0.310 | 56.9 | 129.4 | 0.2 | 0.267 |
| 4-1400 | 4-2920 | 0.348 | 306.3 | -12.0 | 1.89 | 1.304 | 97.6 | 0.702 | 3.280 | 341.6 | 558.5 | 0.976 | 5.583 | -2.16 | 0.312 | 56.2 | 130.6 | 0.3 | 0.270 |
| 4-1400 | 4-2940 | 0.354 | 308.4 | -12.0 | 1.78 | 1.305 | 98.2 | 0.705 | 3.294 | 340.2 | 558.9 | 0.973 | 5.616 | -2.07 | 0.314 | 55.6 | 131.7 | 0.3 | 0.273 |
| 4-1400 | 4-2960 | 0.361 | 310.5 | -12.0 | 1.68 | 1.305 | 98.8 | 0.707 | 3.309 | 338.7 | 559.2 | 0.969 | 5.650 | -1.99 | 0.315 | 55.0 | 132.9 | 0.4 | 0.276 |
| 4-1400 | 4-2980 | 0.368 | 312.6 | -11.9 | 1.59 | 1.306 | 99.5 | 0.710 | 3.324 | 337.2 | 559.5 | 0.965 | 5.683 | -1.92 | 0.317 | 54.4 | 134.1 | 0.4 | 0.280 |
| 4-1400 | 4-3000 | 0.376 | 314.6 | -11.8 | 1.50 | 1.306 | 100.1 | 0.712 | 3.339 | 335.6 | 559.8 | 0.960 | 5.718 | -1.86 | 0.319 | 53.8 | 135.4 | 0.5 | 0.283 |
| 4-1410 | 4-1670 | 0.644 | 263.7 | -23.8 | -0.18 | 1.627 | 82.3 | 1.636 | -1.550 | 12.5 | 107.7 | --- | --- | 1.31 | 1.016 | 162.1 | 144.0 | 2.2 | 0.996 |
| 4-1410 | 4-1690 | 0.596 | 260.3 | -23.7 | -0.22 | 1.572 | 81.4 | 1.462 | -2.122 | 14.4 | 111.3 | --- | --- | 1.31 | 0.927 | 161.0 | 144.3 | 2.2 | 0.908 |
| 4-1410 | 4-1710 | 0.557 | 257.0 | -23.6 | -0.25 | 1.528 | 80.7 | 1.325 | -3.004 | 16.3 | 115.0 | --- | --- | 1.32 | 0.849 | 159.9 | 144.5 | 2.2 | 0.832 |
| 4-1410 | 4-1730 | 0.527 | 253.7 | -23.4 | -0.29 | 1.491 | 80.0 | 1.215 | -4.514 | 18.3 | 118.6 | --- | --- | 1.33 | 0.781 | 158.6 | 144.6 | 2.3 | 0.765 |
| 4-1410 | 4-1750 | 0.503 | 250.6 | -23.2 | -0.33 | 1.460 | 79.3 | 1.127 | -7.641 | 20.2 | 122.2 | --- | --- | 1.33 | 0.721 | 157.2 | 144.8 | 2.3 | 0.705 |
| 4-1410 | 4-1770 | 0.485 | 247.7 | -23.0 | -0.37 | 1.434 | 78.7 | 1.05 | 417.746 | 22.0 | 125.7 | --- | --- | 1.34 | 0.668 | 155.8 | 144.8 | 2.3 | 0.652 |
| 4-1410 | 4-1790 | 0.470 | 245.1 | -22.7 | -0.42 | 1.413 | 78.2 | 0.99 | 590.878 | 23.7 | 129.1 | --- | --- | 1.35 | 0.620 | 154.2 | 144.8 | 2.4 | 0.605 |
| 4-1410 | 4-1810 | 0.458 | 242.6 | -22.5 | -0.46 | 1.394 | 77.7 | 0.94 | 617.649 | 25.3 | 132.4 | --- | --- | 1.36 | 0.578 | 152.6 | 144.8 | 2.4 | 0.563 |
| 4-1410 | 4-1830 | 0.448 | 240.5 | -22.2 | -0.50 | 1.379 | 77.3 | 0.90 | 510.024 | 26.7 | 135.6 | --- | --- | 1.38 | 0.540 | 150.8 | 144.7 | 2.5 | 0.524 |
| 4-1410 | 4-1850 | 0.440 | 238.6 | -22.0 | -0.55 | 1.365 | 77.0 | 0.871 | 7.348 | 28.0 | 138.6 | --- | --- | 1.39 | 0.505 | 149.0 | 144.5 | 2.5 | 0.490 |
| 4-1410 | 4-1870 | 0.434 | 236.9 | -21.8 | -0.59 | 1.354 | 76.7 | 0.843 | 5.994 | 29.2 | 141.5 | --- | --- | 1.41 | 0.475 | 147.0 | 144.2 | 2.6 | 0.459 |
| 4-1410 | 4-1890 | 0.429 | 235.5 | -21.7 | -0.64 | 1.344 | 76.4 | 0.819 | 5.183 | 30.3 | 144.3 | --- | --- | 1.43 | 0.447 | 145.0 | 143.9 | 2.7 | 0.430 |
| 4-1410 | 4-1910 | 0.424 | 234.3 | -21.6 | -0.69 | 1.336 | 76.2 | 0.799 | 4.647 | 31.2 | 146.9 | --- | --- | 1.45 | 0.422 | 142.8 | 143.5 | 2.7 | 0.404 |
| 4-1410 | 4-1930 | 0.420 | 233.3 | -21.5 | -0.74 | 1.329 | 76.0 | 0.781 | 4.271 | 31.9 | 149.4 | --- | --- | 1.47 | 0.399 | 140.5 | 143.0 | 2.8 | 0.381 |
| 4-1410 | 4-1950 | 0.416 | 232.4 | -21.5 | -0.79 | 1.323 | 75.9 | 0.767 | 3.993 | 32.6 | 151.8 | --- | --- | 1.49 | 0.379 | 138.2 | 142.4 | 2.9 | 0.360 |
| 4-1410 | 4-1970 | 0.413 | 231.8 | -21.5 | -0.84 | 1.318 | 75.9 | 0.754 | 3.783 | 33.1 | 154.0 | --- | --- | 1.52 | 0.361 | 135.7 | 141.7 | 3.0 | 0.340 |
| 4-1410 | 4-1990 | 0.410 | 231.2 | -21.5 | -0.89 | 1.313 | 75.8 | 0.743 | 3.620 | 33.4 | 156.2 | --- | --- | 1.55 | 0.345 | 133.2 | 140.9 | 3.1 | 0.323 |
| 4-1410 | 4-2010 | 0.407 | 230.8 | -21.7 | -0.95 | 1.309 | 75.8 | 0.734 | 3.491 | 33.7 | 158.2 | --- | --- | 1.58 | 0.330 | 130.5 | 140.1 | 3.3 | 0.307 |
| 4-1410 | 4-2030 | 0.404 | 230.6 | -21.8 | -1.01 | 1.306 | 75.8 | 0.726 | 3.387 | 33.9 | 160.1 | --- | --- | 1.62 | 0.318 | 127.9 | 139.1 | 3.4 | 0.292 |
| 4-1410 | 4-2050 | 0.401 | 230.4 | -22.0 | -1.08 | 1.303 | 75.9 | 0.719 | 3.303 | 34.0 | 162.0 | --- | --- | 1.66 | 0.306 | 125.1 | 138.1 | 3.5 | 0.279 |
| 4-1410 | 4-2070 | 0.398 | 230.4 | -22.2 | -1.14 | 1.301 | 76.0 | 0.713 | 3.235 | 33.9 | 163.7 | --- | --- | 1.70 | 0.296 | 122.4 | 137.0 | 3.7 | 0.267 |
| 4-1410 | 4-2090 | 0.395 | 230.4 | -22.5 | -1.21 | 1.298 | 76.1 | 0.708 | 3.179 | 33.8 | 165.4 | --- | --- | 1.74 | 0.288 | 119.6 | 135.8 | 3.8 | 0.257 |
| 4-1410 | 4-2110 | 0.391 | 230.6 | -22.8 | -1.29 | 1.297 | 76.2 | 0.703 | 3.133 | 33.6 | 166.9 | --- | --- | 1.79 | 0.280 | 116.8 | 134.6 | 4.0 | 0.248 |
| 4-1410 | 4-2130 | 0.388 | 230.8 | -23.2 | -1.37 | 1.295 | 76.4 | 0.699 | 3.095 | 33.3 | 168.4 | --- | --- | 1.85 | 0.274 | 114.0 | 133.3 | 4.2 | 0.240 |
| 4-1410 | 4-2150 | 0.385 | 231.1 | -23.6 | -1.45 | 1.294 | 76.6 | 0.695 | 3.064 | 33.0 | 169.9 | --- | --- | 1.91 | 0.269 | 111.2 | 132.0 | 4.3 | 0.232 |
| 4-1410 | 4-2170 | 0.382 | 231.6 | -24.0 | -1.54 | 1.293 | 76.8 | 0.692 | 3.039 | 32.6 | 171.2 | --- | --- | 1.98 | 0.265 | 108.5 | 130.7 | 4.5 | 0.226 |
| 4-1410 | 4-2190 | 0.378 | 232.0 | -24.5 | -1.64 | 1.292 | 77.0 | 0.689 | 3.019 | 32.1 | 172.6 | --- | --- | 2.05 | 0.261 | 105.8 | 129.3 | 4.7 | 0.221 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1410 | 4-2210 | 0.375 | 232.6 | -25.0 | -1.74 | 1.291 | 77.2 | 0.687 | 3.003 | 31.6 | 173.8 | --- | --- | 2.13 | 0.258 | 103.2 | 128.0 | 4.9 | 0.217 |
| 4-1410 | 4-2230 | 0.372 | 233.2 | -25.6 | -1.86 | 1.291 | 77.5 | 0.685 | 2.990 | 31.0 | 175.0 | --- | --- | 2.22 | 0.256 | 100.6 | 126.7 | 5.1 | 0.213 |
| 4-1410 | 4-2250 | 0.368 | 233.9 | -26.3 | -1.98 | 1.290 | 77.8 | 0.683 | 2.981 | 30.3 | 176.2 | --- | --- | 2.32 | 0.255 | 98.1 | 125.5 | 5.3 | 0.210 |
| 4-1410 | 4-2270 | 0.365 | 234.7 | -27.0 | -2.12 | 1.290 | 78.0 | 0.682 | 2.974 | 29.6 | 177.3 | --- | --- | 2.44 | 0.254 | 95.8 | 124.3 | 5.5 | 0.208 |
| 4-1410 | 4-2290 | 0.361 | 235.5 | -27.8 | -2.27 | 1.290 | 78.4 | 0.680 | 2.969 | 28.9 | 178.4 | --- | --- | 2.57 | 0.254 | 93.5 | 123.2 | 5.7 | 0.206 |
| 4-1410 | 4-2310 | 0.358 | 236.4 | -28.7 | -2.44 | 1.290 | 78.7 | 0.679 | 2.967 | 28.1 | 179.4 | --- | --- | 2.71 | 0.254 | 91.3 | 122.1 | 6.0 | 0.205 |
| 4-1410 | 4-2330 | 0.355 | 237.4 | -29.7 | -2.63 | 1.290 | 79.0 | 0.678 | 2.966 | 27.3 | 180.4 | --- | 4.978 | 2.88 | 0.254 | 89.2 | 121.2 | 6.2 | 0.204 |
| 4-1410 | 4-2350 | 0.352 | 238.4 | -30.8 | -2.84 | 1.290 | 79.4 | 0.677 | 2.967 | 26.4 | 181.3 | --- | 4.977 | 3.07 | 0.255 | 87.2 | 120.3 | 6.5 | 0.204 |
| 4-1410 | 4-2370 | 0.349 | 239.5 | -32.0 | -3.09 | 1.290 | 79.7 | 0.677 | 2.970 | 25.6 | 182.3 | --- | 4.979 | 3.30 | 0.256 | 85.3 | 119.6 | 6.8 | 0.204 |
| 4-1410 | 4-2390 | 0.346 | 240.6 | -33.4 | -3.37 | 1.290 | 80.1 | 0.676 | 2.974 | 24.6 | 183.1 | --- | 4.984 | 3.56 | 0.257 | 83.5 | 118.9 | 7.1 | 0.205 |
| 4-1410 | 4-2410 | 0.344 | 241.7 | -35.0 | -3.71 | 1.290 | 80.5 | 0.676 | 2.978 | 23.7 | 184.0 | --- | 4.991 | 3.88 | 0.259 | 81.8 | 118.4 | 7.5 | 0.206 |
| 4-1410 | 4-2430 | 0.342 | 242.9 | -36.9 | -4.11 | 1.290 | 80.9 | 0.675 | 2.984 | 22.7 | 184.8 | --- | 5.000 | 4.26 | 0.261 | 80.1 | 118.0 | 8.0 | 0.207 |
| 4-1410 | 4-2450 | 0.341 | 244.1 | -39.1 | -4.60 | 1.291 | 81.3 | 0.675 | 2.991 | 21.7 | 185.6 | --- | 5.011 | 4.73 | 0.262 | 78.6 | 117.6 | 8.5 | 0.209 |
| 4-1410 | 4-2470 | 0.341 | 245.3 | -41.7 | -5.21 | 1.291 | 81.7 | 0.675 | 2.999 | 20.6 | 186.4 | --- | 5.023 | 5.32 | 0.264 | 77.1 | 117.4 | 9.2 | 0.211 |
| 4-1410 | 4-2490 | 0.343 | 246.4 | -45.0 | -6.00 | 1.291 | 82.1 | 0.675 | 3.007 | 19.6 | 187.2 | --- | 5.038 | 6.09 | 0.266 | 75.7 | 117.3 | 10.1 | 0.214 |
| 4-1410 | 4-2510 | 0.348 | 247.3 | -49.1 | -7.06 | 1.292 | 82.6 | 0.675 | 3.016 | 18.5 | 187.9 | --- | 5.053 | 7.12 | 0.268 | 74.3 | 117.4 | 11.2 | 0.217 |
| 4-1410 | 4-2530 | 0.358 | 247.7 | -54.5 | -8.55 | 1.292 | 83.0 | 0.676 | 3.026 | 17.4 | 188.6 | --- | 5.070 | 8.59 | 0.271 | 73.1 | 117.5 | 12.8 | 0.221 |
| 4-1410 | 4-2550 | 0.379 | 246.7 | -61.8 | -10.81 | 1.293 | 83.5 | 0.676 | 3.036 | 16.2 | 189.3 | --- | 5.088 | 10.83 | 0.273 | 71.9 | 117.9 | 15.1 | 0.226 |
| 4-1410 | 4-2570 | 0.424 | 240.3 | -72.1 | -14.63 | 1.293 | 83.9 | 0.676 | 3.047 | 15.1 | 189.9 | --- | 5.108 | 14.63 | 0.275 | 70.7 | 118.6 | 18.8 | 0.236 |
| 4-1410 | 4-2590 | 0.538 | 177.5 | -82.9 | -22.40 | 1.294 | 84.4 | 0.677 | 3.058 | 14.0 | 190.6 | --- | 5.128 | 22.38 | 0.277 | 69.6 | 120.3 | 25.1 | 0.259 |
| 4-1410 | 4-2610 | 0.910 | 106.0 | -62.2 | -44.35 | 1.294 | 84.7 | 0.678 | 3.069 | 13.1 | 191.2 | --- | 5.150 | 44.31 | 0.280 | 68.5 | 125.6 | 34.4 | 0.344 |
| 4-1410 | 4-2630 | 1.323 | 183.6 | 81.6 | 69.09 | 1.295 | 85.8 | 0.678 | 3.081 | 10.4 | 191.8 | --- | 5.170 | -69.16 | 0.282 | 67.7 | 129.2 | -30.1 | 0.454 |
| 4-1410 | 4-2650 | 0.647 | 263.6 | 53.8 | 29.17 | 1.295 | 86.1 | 0.679 | 3.094 | 9.7 | 192.4 | --- | 5.193 | -29.25 | 0.284 | 66.7 | 121.8 | -23.7 | 0.288 |
| 4-1410 | 4-2670 | 0.455 | 268.6 | 34.3 | 17.31 | 1.296 | 86.5 | 0.680 | 3.106 | 8.6 | 192.9 | --- | 5.217 | -17.41 | 0.286 | 65.7 | 120.5 | -15.3 | 0.254 |
| 4-1410 | 4-2690 | 0.384 | 271.3 | 21.9 | 12.17 | 1.296 | 87.0 | 0.681 | 3.119 | 7.3 | 193.5 | --- | 5.242 | -12.30 | 0.289 | 64.9 | 120.5 | -10.4 | 0.246 |
| 4-1410 | 4-2710 | 0.351 | 273.8 | 13.4 | 9.34 | 1.297 | 87.5 | 0.682 | 3.133 | 6.1 | 194.0 | --- | 5.267 | -9.49 | 0.291 | 64.0 | 121.0 | -7.6 | 0.244 |
| 4-1410 | 4-2730 | 0.333 | 276.1 | 7.5 | 7.56 | 1.297 | 88.1 | 0.683 | 3.146 | 4.8 | 194.5 | --- | 5.293 | -7.73 | 0.293 | 63.2 | 121.6 | -5.7 | 0.244 |
| 4-1410 | 4-2750 | 0.323 | 278.6 | 3.1 | 6.33 | 1.298 | 88.6 | 0.684 | 3.160 | 3.4 | 195.0 | --- | 5.320 | -6.52 | 0.295 | 62.5 | 122.4 | -4.4 | 0.246 |
| 4-1410 | 4-2770 | 0.317 | 281.1 | -0.2 | 5.43 | 1.298 | 89.1 | 0.685 | 3.173 | 2.1 | 195.5 | --- | 5.347 | -5.64 | 0.297 | 61.7 | 123.2 | -3.4 | 0.248 |
| 4-1410 | 4-2790 | 0.313 | 283.6 | -2.7 | 4.75 | 1.299 | 89.7 | 0.686 | 3.188 | 0.7 | 196.0 | --- | 5.375 | -4.98 | 0.300 | 61.0 | 124.0 | -2.7 | 0.250 |
| 4-1410 | 4-2810 | 0.312 | 286.1 | -4.7 | 4.21 | 1.299 | 90.3 | 0.688 | 3.202 | 359.4 | 556.4 | 1.000 | 5.404 | -4.46 | 0.302 | 60.3 | 124.9 | -2.1 | 0.253 |
| 4-1410 | 4-2830 | 0.311 | 288.7 | -6.3 | 3.77 | 1.300 | 90.8 | 0.689 | 3.216 | 358.0 | 556.8 | 1.000 | 5.433 | -4.04 | 0.304 | 59.6 | 125.9 | -1.7 | 0.255 |
| 4-1410 | 4-2850 | 0.311 | 291.3 | -7.5 | 3.40 | 1.300 | 91.4 | 0.691 | 3.231 | 356.6 | 557.2 | 0.999 | 5.462 | -3.70 | 0.306 | 59.0 | 126.9 | -1.3 | 0.258 |
| 4-1410 | 4-2870 | 0.312 | 293.8 | -8.5 | 3.10 | 1.301 | 92.0 | 0.692 | 3.245 | 355.2 | 557.6 | 0.998 | 5.492 | -3.41 | 0.308 | 58.3 | 127.9 | -1.0 | 0.260 |
| 4-1410 | 4-2890 | 0.314 | 296.4 | -9.2 | 2.83 | 1.301 | 92.6 | 0.694 | 3.260 | 353.7 | 558.0 | 0.997 | 5.523 | -3.17 | 0.309 | 57.7 | 129.0 | -0.8 | 0.263 |
| 4-1410 | 4-2910 | 0.317 | 299.0 | -9.8 | 2.61 | 1.302 | 93.2 | 0.696 | 3.275 | 352.3 | 558.4 | 0.996 | 5.554 | -2.96 | 0.311 | 57.1 | 130.1 | -0.6 | 0.266 |
| 4-1410 | 4-2930 | 0.320 | 301.5 | -10.3 | 2.40 | 1.303 | 93.8 | 0.698 | 3.290 | 350.8 | 558.8 | 0.995 | 5.585 | -2.78 | 0.313 | 56.5 | 131.2 | -0.4 | 0.269 |
| 4-1410 | 4-2950 | 0.324 | 304.0 | -10.6 | 2.23 | 1.303 | 94.4 | 0.700 | 3.305 | 349.4 | 559.1 | 0.993 | 5.617 | -2.63 | 0.315 | 56.0 | 132.4 | -0.3 | 0.271 |
| 4-1410 | 4-2970 | 0.328 | 306.5 | -10.8 | 2.07 | 1.304 | 95.0 | 0.702 | 3.320 | 347.9 | 559.4 | 0.991 | 5.650 | -2.49 | 0.317 | 55.4 | 133.6 | -0.1 | 0.274 |
| 4-1410 | 4-2990 | 0.333 | 308.9 | -10.9 | 1.93 | 1.304 | 95.6 | 0.704 | 3.335 | 346.4 | 559.7 | 0.988 | 5.682 | -2.37 | 0.318 | 54.9 | 134.8 | -0.1 | 0.277 |
| 4-1410 | 4-3010 | 0.338 | 311.3 | -10.9 | 1.80 | 1.305 | 96.2 | 0.706 | 3.351 | 344.9 | 560.0 | 0.986 | 5.716 | -2.26 | 0.320 | 54.3 | 136.0 | 0.0 | 0.280 |
| 4-1420 | 4-1700 | 0.634 | 253.3 | -23.1 | -0.23 | 1.553 | 74.9 | 1.393 | -2.405 | 25.8 | 113.8 | --- | --- | 1.28 | 0.896 | 161.0 | 144.2 | 2.2 | 0.882 |
| 4-1420 | 4-1720 | 0.602 | 250.2 | -22.9 | -0.27 | 1.510 | 74.3 | 1.268 | -3.501 | 28.0 | 117.6 | --- | --- | 1.28 | 0.821 | 159.8 | 144.3 | 2.2 | 0.807 |
| 4-1420 | 4-1740 | 0.576 | 247.2 | -22.6 | -0.31 | 1.475 | 73.8 | 1.168 | -5.527 | 30.0 | 121.4 | --- | --- | 1.28 | 0.755 | 158.6 | 144.4 | 2.3 | 0.742 |
| 4-1420 | 4-1760 | 0.556 | 244.5 | -22.3 | -0.35 | 1.446 | 73.3 | 1.088 | 10.452 | 32.0 | 125.0 | --- | --- | 1.28 | 0.696 | 157.2 | 144.4 | 2.3 | 0.685 |
| 4-1420 | 4-1780 | 0.541 | 242.1 | -22.0 | -0.38 | 1.421 | 72.9 | 1.024 | 38.958 | 33.9 | 128.6 | --- | --- | 1.28 | 0.644 | 155.7 | 144.4 | 2.3 | 0.634 |
| 4-1420 | 4-1800 | 0.528 | 239.9 | -21.7 | -0.42 | 1.401 | 72.5 | 0.971 | 31.048 | 35.6 | 132.0 | --- | --- | 1.28 | 0.598 | 154.1 | 144.3 | 2.4 | 0.588 |
| 4-1420 | 4-1820 | 0.518 | 238.0 | -21.4 | -0.46 | 1.384 | 72.1 | 0.927 | 12.427 | 37.2 | 135.3 | --- | --- | 1.29 | 0.557 | 152.4 | 144.2 | 2.4 | 0.547 |
| 4-1420 | 4-1840 | 0.510 | 236.4 | -21.2 | -0.50 | 1.369 | 71.9 | 0.891 | 8.272 | 38.6 | 138.5 | --- | --- | 1.29 | 0.520 | 150.6 | 144.0 | 2.5 | 0.510 |
| 4-1420 | 4-1860 | 0.503 | 234.9 | -21.0 | -0.54 | 1.356 | 71.6 | 0.861 | 6.455 | 39.9 | 141.5 | --- | --- | 1.30 | 0.487 | 148.7 | 143.7 | 2.5 | 0.477 |
| 4-1420 | 4-1880 | 0.498 | 233.7 | -20.8 | -0.58 | 1.346 | 71.4 | 0.836 | 5.444 | 41.0 | 144.3 | --- | --- | 1.31 | 0.457 | 146.7 | 143.3 | 2.6 | 0.447 |
| 4-1420 | 4-1900 | 0.493 | 232.7 | -20.7 | -0.62 | 1.337 | 71.3 | 0.815 | 4.806 | 41.9 | 147.0 | --- | --- | 1.32 | 0.430 | 144.5 | 142.9 | 2.6 | 0.419 |
| 4-1420 | 4-1920 | 0.488 | 231.8 | -20.6 | -0.66 | 1.329 | 71.2 | 0.798 | 4.371 | 42.7 | 149.5 | --- | --- | 1.33 | 0.406 | 142.3 | 142.4 | 2.7 | 0.395 |
| 4-1420 | 4-1940 | 0.484 | 231.1 | -20.5 | -0.71 | 1.322 | 71.1 | 0.782 | 4.057 | 43.4 | 151.9 | --- | --- | 1.35 | 0.384 | 140.0 | 141.8 | 2.8 | 0.372 |
| 4-1420 | 4-1960 | 0.480 | 230.6 | -20.5 | -0.75 | 1.317 | 71.1 | 0.770 | 3.823 | 43.9 | 154.2 | --- | --- | 1.36 | 0.364 | 137.5 | 141.1 | 2.9 | 0.352 |
| 4-1420 | 4-1980 | 0.476 | 230.1 | -20.6 | -0.79 | 1.312 | 71.1 | 0.759 | 3.644 | 44.3 | 156.3 | --- | --- | 1.38 | 0.347 | 134.9 | 140.3 | 3.0 | 0.333 |
| 4-1420 | 4-2000 | 0.473 | 229.8 | -20.6 | -0.84 | 1.307 | 71.1 | 0.749 | 3.503 | 44.5 | 158.3 | --- | --- | 1.39 | 0.331 | 132.3 | 139.4 | 3.1 | 0.317 |
| 4-1420 | 4-2020 | 0.469 | 229.6 | -20.7 | -0.89 | 1.304 | 71.2 | 0.741 | 3.391 | 44.7 | 160.2 | --- | --- | 1.41 | 0.318 | 129.6 | 138.5 | 3.2 | 0.302 |
| 4-1420 | 4-2040 | 0.465 | 229.5 | -20.8 | -0.94 | 1.301 | 71.2 | 0.734 | 3.302 | 44.7 | 162.0 | --- | --- | 1.44 | 0.306 | 126.8 | 137.4 | 3.3 | 0.288 |
| 4-1420 | 4-2060 | 0.462 | 229.5 | -21.0 | -0.99 | 1.298 | 71.4 | 0.727 | 3.229 | 44.7 | 163.8 | --- | --- | 1.46 | 0.295 | 124.0 | 136.3 | 3.4 | 0.276 |
| 4-1420 | 4-2080 | 0.458 | 229.6 | -21.2 | -1.04 | 1.296 | 71.5 | 0.722 | 3.170 | 44.6 | 165.4 | --- | --- | 1.49 | 0.286 | 121.1 | 135.2 | 3.5 | 0.265 |
| 4-1420 | 4-2100 | 0.454 | 229.8 | -21.4 | -1.09 | 1.294 | 71.7 | 0.717 | 3.121 | 44.3 | 167.0 | --- | --- | 1.51 | 0.278 | 118.2 | 134.0 | 3.7 | 0.255 |
| 4-1420 | 4-2120 | 0.450 | 230.0 | -21.6 | -1.15 | 1.292 | 71.9 | 0.713 | 3.081 | 44.0 | 168.4 | --- | --- | 1.55 | 0.271 | 115.3 | 132.7 | 3.8 | 0.247 |
| 4-1420 | 4-2140 | 0.446 | 230.3 | -21.9 | -1.21 | 1.291 | 72.1 | 0.709 | 3.049 | 43.7 | 169.8 | --- | --- | 1.58 | 0.266 | 112.5 | 131.4 | 3.9 | 0.239 |
| 4-1420 | 4-2160 | 0.442 | 230.6 | -22.2 | -1.27 | 1.290 | 72.3 | 0.706 | 3.023 | 43.2 | 171.2 | --- | --- | 1.62 | 0.261 | 109.6 | 130.1 | 4.1 | 0.233 |
| 4-1420 | 4-2180 | 0.438 | 231.1 | -22.5 | -1.34 | 1.289 | 72.5 | 0.703 | 3.002 | 42.7 | 172.5 | --- | --- | 1.66 | 0.257 | 106.9 | 128.8 | 4.2 | 0.227 |
| 4-1420 | 4-2200 | 0.434 | 231.6 | -22.9 | -1.41 | 1.288 | 72.8 | 0.700 | 2.985 | 42.2 | 173.7 | --- | --- | 1.70 | 0.254 | 104.1 | 127.5 | 4.3 | 0.222 |
| 4-1420 | 4-2220 | 0.429 | 232.1 | -23.3 | -1.48 | 1.288 | 73.1 | 0.698 | 2.972 | 41.6 | 174.9 | --- | --- | 1.75 | 0.252 | 101.5 | 126.3 | 4.5 | 0.218 |
| 4-1420 | 4-2240 | 0.425 | 232.7 | -23.7 | -1.56 | 1.287 | 73.4 | 0.695 | 2.962 | 40.9 | 176.0 | --- | --- | 1.81 | 0.251 | 98.9 | 125.1 | 4.6 | 0.215 |
| 4-1420 | 4-2260 | 0.420 | 233.4 | -24.2 | -1.64 | 1.287 | 73.7 | 0.694 | 2.956 | 40.2 | 177.1 | --- | --- | 1.87 | 0.250 | 96.5 | 123.9 | 4.7 | 0.212 |
| 4-1420 | 4-2280 | 0.416 | 234.1 | -24.7 | -1.73 | 1.287 | 74.0 | 0.692 | 2.951 | 39.4 | 178.2 | --- | --- | 1.93 | 0.249 | 94.1 | 122.8 | 4.9 | 0.210 |
| 4-1420 | 4-2300 | 0.411 | 234.9 | -25.2 | -1.83 | 1.287 | 74.4 | 0.690 | 2.949 | 38.6 | 179.2 | --- | --- | 2.01 | 0.249 | 91.8 | 121.8 | 5.0 | 0.209 |
| 4-1420 | 4-2320 | 0.406 | 235.7 | -25.8 | -1.93 | 1.287 | 74.7 | 0.689 | 2.948 | 37.8 | 180.1 | --- | 4.980 | 2.09 | 0.250 | 89.7 | 120.9 | 5.1 | 0.208 |
| 4-1420 | 4-2340 | 0.402 | 236.6 | -26.4 | -2.04 | 1.287 | 75.1 | 0.688 | 2.949 | 36.9 | 181.1 | --- | 4.978 | 2.18 | 0.251 | 87.6 | 120.0 | 5.3 | 0.208 |
| 4-1420 | 4-2360 | 0.397 | 237.5 | -27.1 | -2.17 | 1.287 | 75.4 | 0.687 | 2.952 | 36.0 | 182.0 | --- | 4.979 | 2.28 | 0.252 | 85.6 | 119.3 | 5.4 | 0.208 |
| 4-1420 | 4-2380 | 0.392 | 238.5 | -27.8 | -2.30 | 1.287 | 75.8 | 0.686 | 2.956 | 35.1 | 182.9 | --- | 4.983 | 2.39 | 0.253 | 83.8 | 118.6 | 5.6 | 0.208 |
| 4-1420 | 4-2400 | 0.388 | 239.6 | -28.6 | -2.45 | 1.287 | 76.2 | 0.685 | 2.961 | 34.1 | 183.7 | --- | 4.990 | 2.52 | 0.255 | 82.0 | 118.1 | 5.8 | 0.209 |
| 4-1420 | 4-2420 | 0.383 | 240.7 | -29.5 | -2.62 | 1.288 | 76.6 | 0.684 | 2.967 | 33.1 | 184.5 | --- | 4.998 | 2.67 | 0.257 | 80.3 | 117.7 | 5.9 | 0.210 |
| 4-1420 | 4-2440 | 0.379 | 241.8 | -30.4 | -2.81 | 1.288 | 77.1 | 0.684 | 2.974 | 32.1 | 185.3 | --- | 5.008 | 2.83 | 0.259 | 78.8 | 117.3 | 6.1 | 0.211 |
| 4-1420 | 4-2460 | 0.375 | 243.1 | -31.5 | -3.02 | 1.288 | 77.5 | 0.683 | 2.982 | 31.0 | 186.1 | --- | 5.020 | 3.03 | 0.261 | 77.3 | 117.1 | 6.4 | 0.212 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1420 | 4-2480 | 0.371 | 244.3 | -32.7 | -3.27 | 1.289 | 77.9 | 0.683 | 2.991 | 29.9 | 186.8 | --- | 5.034 | 3.25 | 0.263 | 75.8 | 117.0 | 6.6 | 0.214 |
| 4-1420 | 4-2500 | 0.367 | 245.6 | -34.1 | -3.56 | 1.289 | 78.4 | 0.683 | 3.001 | 28.8 | 187.6 | --- | 5.049 | 3.52 | 0.265 | 74.5 | 116.9 | 6.9 | 0.216 |
| 4-1420 | 4-2520 | 0.363 | 247.0 | -35.6 | -3.89 | 1.289 | 78.8 | 0.682 | 3.011 | 27.7 | 188.3 | --- | 5.065 | 3.83 | 0.267 | 73.2 | 117.0 | 7.2 | 0.218 |
| 4-1420 | 4-2540 | 0.361 | 248.4 | -37.4 | -4.30 | 1.290 | 79.3 | 0.682 | 3.021 | 26.6 | 188.9 | --- | 5.083 | 4.22 | 0.270 | 72.0 | 117.1 | 7.6 | 0.220 |
| 4-1420 | 4-2560 | 0.359 | 249.8 | -39.5 | -4.79 | 1.290 | 79.7 | 0.682 | 3.032 | 25.4 | 189.6 | --- | 5.101 | 4.69 | 0.272 | 70.8 | 117.3 | 8.1 | 0.222 |
| 4-1420 | 4-2580 | 0.358 | 251.3 | -42.1 | -5.41 | 1.291 | 80.2 | 0.682 | 3.044 | 24.2 | 190.2 | --- | 5.121 | 5.29 | 0.275 | 69.8 | 117.7 | 8.8 | 0.225 |
| 4-1420 | 4-2600 | 0.359 | 252.7 | -45.3 | -6.21 | 1.291 | 80.7 | 0.682 | 3.056 | 23.0 | 190.8 | --- | 5.141 | 6.07 | 0.277 | 68.7 | 118.1 | 9.6 | 0.228 |
| 4-1420 | 4-2620 | 0.363 | 253.9 | -49.3 | -7.29 | 1.292 | 81.2 | 0.683 | 3.068 | 21.8 | 191.4 | --- | 5.163 | 7.13 | 0.279 | 67.7 | 118.6 | 10.7 | 0.231 |
| 4-1420 | 4-2640 | 0.372 | 254.8 | -54.7 | -8.83 | 1.292 | 81.7 | 0.683 | 3.081 | 20.5 | 192.0 | --- | 5.185 | 8.65 | 0.282 | 66.8 | 119.3 | 12.2 | 0.236 |
| 4-1420 | 4-2660 | 0.393 | 254.6 | -62.2 | -11.19 | 1.293 | 82.2 | 0.683 | 3.094 | 19.3 | 192.6 | --- | 5.208 | 10.98 | 0.284 | 65.9 | 120.1 | 14.5 | 0.242 |
| 4-1420 | 4-2680 | 0.440 | 249.3 | -72.9 | -15.26 | 1.293 | 82.7 | 0.684 | 3.107 | 18.1 | 193.1 | --- | 5.232 | 15.04 | 0.287 | 65.0 | 121.4 | 18.2 | 0.252 |
| 4-1420 | 4-2700 | 0.566 | 172.7 | -83.9 | -23.84 | 1.294 | 83.2 | 0.684 | 3.121 | 16.9 | 193.7 | --- | 5.257 | 23.60 | 0.289 | 64.2 | 123.8 | 24.7 | 0.276 |
| 4-1420 | 4-2720 | 1.004 | 110.5 | -58.8 | -49.77 | 1.295 | 83.6 | 0.685 | 3.135 | 15.9 | 194.2 | --- | 5.282 | 49.51 | 0.291 | 63.4 | 131.6 | 34.1 | 0.376 |
| 4-1420 | 4-2740 | 1.168 | 219.5 | 75.4 | 59.53 | 1.295 | 84.6 | 0.685 | 3.149 | 13.2 | 194.7 | --- | 5.306 | -59.81 | 0.293 | 62.8 | 132.7 | -30.1 | 0.422 |
| 4-1420 | 4-2760 | 0.598 | 266.0 | 48.3 | 26.08 | 1.296 | 85.0 | 0.686 | 3.163 | 12.3 | 195.2 | --- | 5.333 | -26.38 | 0.296 | 62.0 | 125.5 | -21.0 | 0.291 |
| 4-1420 | 4-2780 | 0.438 | 272.2 | 30.2 | 15.85 | 1.296 | 85.5 | 0.687 | 3.177 | 11.1 | 195.6 | --- | 5.360 | -16.18 | 0.298 | 61.3 | 124.6 | -13.4 | 0.266 |
| 4-1420 | 4-2800 | 0.378 | 275.7 | 18.6 | 11.25 | 1.297 | 86.0 | 0.688 | 3.192 | 9.7 | 196.1 | --- | 5.387 | -11.59 | 0.300 | 60.6 | 125.0 | -9.2 | 0.260 |
| 4-1420 | 4-2820 | 0.349 | 278.6 | 10.8 | 8.66 | 1.297 | 86.6 | 0.689 | 3.207 | 8.4 | 196.6 | --- | 5.415 | -9.03 | 0.302 | 60.0 | 125.7 | -6.7 | 0.258 |
| 4-1420 | 4-2840 | 0.333 | 281.4 | 5.4 | 7.00 | 1.298 | 87.1 | 0.690 | 3.222 | 7.0 | 197.0 | --- | 5.444 | -7.39 | 0.304 | 59.4 | 126.6 | -5.0 | 0.259 |
| 4-1420 | 4-2860 | 0.324 | 284.1 | 1.4 | 5.85 | 1.298 | 87.7 | 0.691 | 3.237 | 5.6 | 197.4 | --- | 5.473 | -6.26 | 0.306 | 58.8 | 127.6 | -3.9 | 0.260 |
| 4-1420 | 4-2880 | 0.318 | 286.8 | -1.5 | 5.01 | 1.299 | 88.3 | 0.692 | 3.252 | 4.2 | 197.8 | --- | 5.502 | -5.44 | 0.308 | 58.2 | 128.6 | -3.0 | 0.262 |
| 4-1420 | 4-2900 | 0.314 | 289.5 | -3.8 | 4.36 | 1.299 | 88.9 | 0.693 | 3.267 | 2.8 | 198.2 | --- | 5.532 | -4.81 | 0.310 | 57.6 | 129.6 | -2.4 | 0.264 |
| 4-1420 | 4-2920 | 0.312 | 292.2 | -5.5 | 3.84 | 1.300 | 89.4 | 0.695 | 3.282 | 1.4 | 198.6 | --- | 5.562 | -4.31 | 0.312 | 57.1 | 130.7 | -1.9 | 0.267 |
| 4-1420 | 4-2940 | 0.311 | 295.0 | -6.8 | 3.42 | 1.301 | 90.0 | 0.696 | 3.298 | 359.9 | 558.9 | 1.003 | 5.593 | -3.92 | 0.314 | 56.6 | 131.9 | -1.5 | 0.269 |
| 4-1420 | 4-2960 | 0.311 | 297.7 | -7.8 | 3.08 | 1.301 | 90.6 | 0.697 | 3.313 | 358.4 | 559.3 | 1.003 | 5.624 | -3.59 | 0.316 | 56.0 | 133.0 | -1.2 | 0.271 |
| 4-1420 | 4-2980 | 0.312 | 300.4 | -8.6 | 2.78 | 1.302 | 91.2 | 0.699 | 3.329 | 357.0 | 559.6 | 1.002 | 5.655 | -3.32 | 0.318 | 55.5 | 134.2 | -1.0 | 0.274 |
| 4-1420 | 4-3000 | 0.314 | 303.2 | -9.1 | 2.53 | 1.302 | 91.9 | 0.701 | 3.344 | 355.5 | 559.9 | 1.001 | 5.687 | -3.08 | 0.319 | 55.0 | 135.4 | -0.8 | 0.276 |
| 4-1420 | 4-3020 | 0.316 | 305.8 | -9.5 | 2.31 | 1.303 | 92.5 | 0.702 | 3.360 | 354.0 | 560.2 | 1.000 | 5.720 | -2.89 | 0.321 | 54.5 | 136.7 | -0.6 | 0.279 |
| 4-1430 | 4-1750 | 0.649 | 243.0 | -21.8 | -0.33 | 1.459 | 67.4 | 1.121 | -7.173 | 42.6 | 125.0 | --- | --- | 1.22 | 0.727 | 158.8 | 143.8 | 2.3 | 0.721 |
| 4-1430 | 4-1770 | 0.631 | 240.8 | -21.5 | -0.37 | 1.431 | 67.1 | 1.05 | 116.807 | 44.6 | 128.8 | --- | --- | 1.22 | 0.670 | 157.3 | 143.7 | 2.3 | 0.665 |
| 4-1430 | 4-1790 | 0.617 | 239.0 | -21.2 | -0.40 | 1.408 | 66.8 | 0.99 | 567.668 | 46.5 | 132.3 | --- | --- | 1.21 | 0.620 | 155.8 | 143.6 | 2.3 | 0.616 |
| 4-1430 | 4-1810 | 0.605 | 237.3 | -21.0 | -0.44 | 1.389 | 66.6 | 0.94 | 916.622 | 48.2 | 135.7 | --- | --- | 1.21 | 0.575 | 154.2 | 143.4 | 2.4 | 0.572 |
| 4-1430 | 4-1830 | 0.596 | 235.9 | -20.8 | -0.47 | 1.373 | 66.4 | 0.912 | 9.500 | 49.7 | 138.9 | --- | --- | 1.21 | 0.535 | 152.5 | 143.2 | 2.4 | 0.533 |
| 4-1430 | 4-1850 | 0.587 | 234.7 | -20.6 | -0.51 | 1.359 | 66.2 | 0.881 | 6.993 | 51.0 | 142.0 | --- | --- | 1.21 | 0.499 | 150.6 | 142.9 | 2.4 | 0.497 |
| 4-1430 | 4-1870 | 0.581 | 233.6 | -20.4 | -0.55 | 1.347 | 66.1 | 0.856 | 5.724 | 52.1 | 144.8 | --- | --- | 1.21 | 0.466 | 148.6 | 142.5 | 2.5 | 0.465 |
| 4-1430 | 4-1890 | 0.574 | 232.8 | -20.3 | -0.58 | 1.337 | 66.0 | 0.834 | 4.964 | 53.1 | 147.5 | --- | --- | 1.21 | 0.437 | 146.5 | 142.0 | 2.6 | 0.436 |
| 4-1430 | 4-1910 | 0.569 | 232.1 | -20.3 | -0.62 | 1.329 | 66.0 | 0.816 | 4.462 | 53.9 | 150.1 | --- | --- | 1.22 | 0.411 | 144.3 | 141.5 | 2.6 | 0.410 |
| 4-1430 | 4-1930 | 0.564 | 231.5 | -20.2 | -0.66 | 1.321 | 66.0 | 0.801 | 4.110 | 54.6 | 152.4 | --- | --- | 1.22 | 0.388 | 142.0 | 140.8 | 2.7 | 0.386 |
| 4-1430 | 4-1950 | 0.559 | 231.1 | -20.2 | -0.70 | 1.315 | 66.0 | 0.788 | 3.851 | 55.1 | 154.7 | --- | --- | 1.23 | 0.367 | 139.5 | 140.1 | 2.8 | 0.365 |
| 4-1430 | 4-1970 | 0.554 | 230.8 | -20.2 | -0.73 | 1.310 | 66.1 | 0.777 | 3.655 | 55.4 | 156.8 | --- | --- | 1.23 | 0.348 | 137.0 | 139.3 | 2.8 | 0.345 |
| 4-1430 | 4-1990 | 0.550 | 230.5 | -20.2 | -0.77 | 1.305 | 66.1 | 0.767 | 3.504 | 55.7 | 158.8 | --- | --- | 1.24 | 0.331 | 134.3 | 138.4 | 2.9 | 0.328 |
| 4-1430 | 4-2010 | 0.545 | 230.4 | -20.3 | -0.81 | 1.301 | 66.3 | 0.759 | 3.385 | 55.8 | 160.7 | --- | --- | 1.25 | 0.316 | 131.5 | 137.5 | 3.0 | 0.312 |
| 4-1430 | 4-2030 | 0.541 | 230.4 | -20.4 | -0.85 | 1.298 | 66.4 | 0.752 | 3.289 | 55.8 | 162.4 | --- | --- | 1.26 | 0.303 | 128.7 | 136.5 | 3.1 | 0.298 |
| 4-1430 | 4-2050 | 0.536 | 230.4 | -20.5 | -0.89 | 1.295 | 66.5 | 0.745 | 3.213 | 55.7 | 164.1 | --- | --- | 1.27 | 0.292 | 125.8 | 135.4 | 3.2 | 0.285 |
| 4-1430 | 4-2070 | 0.532 | 230.5 | -20.7 | -0.94 | 1.293 | 66.7 | 0.740 | 3.150 | 55.5 | 165.7 | --- | --- | 1.29 | 0.282 | 122.8 | 134.2 | 3.3 | 0.274 |
| 4-1430 | 4-2090 | 0.527 | 230.7 | -20.8 | -0.98 | 1.291 | 66.9 | 0.735 | 3.100 | 55.3 | 167.2 | --- | --- | 1.30 | 0.274 | 119.8 | 133.0 | 3.4 | 0.264 |
| 4-1430 | 4-2110 | 0.522 | 230.9 | -21.0 | -1.02 | 1.289 | 67.2 | 0.730 | 3.059 | 54.9 | 168.7 | --- | --- | 1.32 | 0.266 | 116.8 | 131.8 | 3.5 | 0.255 |
| 4-1430 | 4-2130 | 0.518 | 231.2 | -21.2 | -1.07 | 1.288 | 67.4 | 0.726 | 3.025 | 54.5 | 170.0 | --- | --- | 1.34 | 0.260 | 113.8 | 130.5 | 3.6 | 0.247 |
| 4-1430 | 4-2150 | 0.513 | 231.5 | -21.4 | -1.11 | 1.287 | 67.7 | 0.723 | 2.998 | 54.1 | 171.3 | --- | --- | 1.36 | 0.255 | 110.9 | 129.2 | 3.7 | 0.240 |
| 4-1430 | 4-2170 | 0.508 | 231.9 | -21.7 | -1.16 | 1.286 | 67.9 | 0.720 | 2.977 | 53.5 | 172.6 | --- | --- | 1.38 | 0.251 | 107.9 | 128.0 | 3.8 | 0.234 |
| 4-1430 | 4-2190 | 0.502 | 232.4 | -21.9 | -1.21 | 1.285 | 68.2 | 0.717 | 2.960 | 52.9 | 173.8 | --- | --- | 1.41 | 0.248 | 105.1 | 126.7 | 3.9 | 0.229 |
| 4-1430 | 4-2210 | 0.497 | 232.9 | -22.2 | -1.27 | 1.284 | 68.5 | 0.714 | 2.947 | 52.3 | 174.9 | --- | --- | 1.44 | 0.246 | 102.3 | 125.5 | 4.0 | 0.225 |
| 4-1430 | 4-2230 | 0.492 | 233.4 | -22.5 | -1.32 | 1.284 | 68.9 | 0.712 | 2.937 | 51.6 | 176.0 | --- | --- | 1.47 | 0.244 | 99.6 | 124.3 | 4.1 | 0.222 |
| 4-1430 | 4-2250 | 0.486 | 234.0 | -22.8 | -1.38 | 1.284 | 69.2 | 0.709 | 2.930 | 50.8 | 177.1 | --- | --- | 1.50 | 0.243 | 97.0 | 123.2 | 4.2 | 0.219 |
| 4-1430 | 4-2270 | 0.481 | 234.6 | -23.2 | -1.44 | 1.284 | 69.6 | 0.707 | 2.926 | 50.0 | 178.1 | --- | --- | 1.54 | 0.243 | 94.6 | 122.1 | 4.3 | 0.217 |
| 4-1430 | 4-2290 | 0.475 | 235.3 | -23.5 | -1.50 | 1.283 | 69.9 | 0.705 | 2.924 | 49.2 | 179.1 | --- | --- | 1.58 | 0.243 | 92.2 | 121.2 | 4.4 | 0.215 |
| 4-1430 | 4-2310 | 0.470 | 236.0 | -23.9 | -1.57 | 1.283 | 70.3 | 0.704 | 2.924 | 48.4 | 180.0 | --- | 4.981 | 1.62 | 0.244 | 89.9 | 120.3 | 4.5 | 0.214 |
| 4-1430 | 4-2330 | 0.464 | 236.8 | -24.3 | -1.64 | 1.284 | 70.7 | 0.702 | 2.925 | 47.5 | 180.9 | --- | 4.979 | 1.67 | 0.245 | 87.8 | 119.5 | 4.6 | 0.213 |
| 4-1430 | 4-2350 | 0.458 | 237.6 | -24.8 | -1.71 | 1.284 | 71.1 | 0.701 | 2.928 | 46.5 | 181.8 | --- | 4.980 | 1.72 | 0.246 | 85.7 | 118.8 | 4.7 | 0.213 |
| 4-1430 | 4-2370 | 0.453 | 238.5 | -25.2 | -1.79 | 1.284 | 71.5 | 0.699 | 2.933 | 45.6 | 182.7 | --- | 4.984 | 1.78 | 0.248 | 83.8 | 118.1 | 4.8 | 0.213 |
| 4-1430 | 4-2390 | 0.447 | 239.4 | -25.7 | -1.88 | 1.284 | 71.9 | 0.698 | 2.938 | 44.6 | 183.5 | --- | 4.990 | 1.84 | 0.249 | 82.0 | 117.6 | 4.8 | 0.214 |
| 4-1430 | 4-2410 | 0.441 | 240.3 | -26.2 | -1.97 | 1.284 | 72.3 | 0.697 | 2.945 | 43.5 | 184.3 | --- | 4.998 | 1.91 | 0.251 | 80.3 | 117.2 | 4.9 | 0.214 |
| 4-1430 | 4-2430 | 0.435 | 241.3 | -26.8 | -2.07 | 1.285 | 72.7 | 0.696 | 2.952 | 42.5 | 185.1 | --- | 5.008 | 1.99 | 0.253 | 78.7 | 116.9 | 5.0 | 0.215 |
| 4-1430 | 4-2450 | 0.429 | 242.4 | -27.4 | -2.18 | 1.285 | 73.2 | 0.695 | 2.961 | 41.4 | 185.8 | --- | 5.019 | 2.08 | 0.256 | 77.1 | 116.7 | 5.1 | 0.216 |
| 4-1430 | 4-2470 | 0.423 | 243.5 | -28.0 | -2.30 | 1.286 | 73.6 | 0.694 | 2.970 | 40.3 | 186.5 | --- | 5.032 | 2.18 | 0.258 | 75.7 | 116.5 | 5.2 | 0.218 |
| 4-1430 | 4-2490 | 0.418 | 244.6 | -28.7 | -2.43 | 1.286 | 74.1 | 0.694 | 2.980 | 39.2 | 187.3 | --- | 5.047 | 2.29 | 0.261 | 74.3 | 116.5 | 5.4 | 0.219 |
| 4-1430 | 4-2510 | 0.412 | 245.8 | -29.5 | -2.58 | 1.286 | 74.5 | 0.693 | 2.990 | 38.1 | 187.9 | --- | 5.063 | 2.41 | 0.263 | 73.0 | 116.5 | 5.5 | 0.221 |
| 4-1430 | 4-2530 | 0.406 | 247.0 | -30.3 | -2.74 | 1.287 | 75.0 | 0.692 | 3.001 | 36.9 | 188.6 | --- | 5.080 | 2.55 | 0.266 | 71.8 | 116.7 | 5.6 | 0.223 |
| 4-1430 | 4-2550 | 0.401 | 248.3 | -31.2 | -2.92 | 1.287 | 75.5 | 0.692 | 3.013 | 35.7 | 189.3 | --- | 5.098 | 2.71 | 0.268 | 70.6 | 116.9 | 5.8 | 0.225 |
| 4-1430 | 4-2570 | 0.396 | 249.7 | -32.2 | -3.13 | 1.288 | 76.0 | 0.692 | 3.025 | 34.5 | 189.9 | --- | 5.117 | 2.90 | 0.271 | 69.6 | 117.2 | 6.0 | 0.227 |
| 4-1430 | 4-2590 | 0.391 | 251.1 | -33.3 | -3.37 | 1.288 | 76.5 | 0.691 | 3.038 | 33.3 | 190.5 | --- | 5.137 | 3.12 | 0.273 | 68.5 | 117.6 | 6.2 | 0.229 |
| 4-1430 | 4-2610 | 0.386 | 252.6 | -34.5 | -3.65 | 1.289 | 77.0 | 0.691 | 3.050 | 32.1 | 191.1 | --- | 5.158 | 3.38 | 0.276 | 67.6 | 118.0 | 6.4 | 0.231 |
| 4-1430 | 4-2630 | 0.382 | 254.1 | -35.9 | -3.98 | 1.290 | 77.5 | 0.691 | 3.064 | 30.8 | 191.7 | --- | 5.180 | 3.69 | 0.279 | 66.6 | 118.5 | 6.7 | 0.233 |
| 4-1430 | 4-2650 | 0.378 | 255.7 | -37.6 | -4.37 | 1.290 | 78.0 | 0.691 | 3.077 | 29.6 | 192.2 | --- | 5.202 | 4.07 | 0.281 | 65.7 | 119.1 | 7.1 | 0.236 |
| 4-1430 | 4-2670 | 0.375 | 257.3 | -39.6 | -4.86 | 1.291 | 78.5 | 0.691 | 3.091 | 28.3 | 192.8 | --- | 5.225 | 4.53 | 0.284 | 64.9 | 119.7 | 7.6 | 0.238 |
| 4-1430 | 4-2690 | 0.373 | 259.0 | -42.0 | -5.47 | 1.291 | 79.0 | 0.691 | 3.105 | 27.0 | 193.3 | --- | 5.249 | 5.13 | 0.286 | 64.1 | 120.4 | 8.1 | 0.241 |
| 4-1430 | 4-2710 | 0.373 | 260.7 | -45.1 | -6.27 | 1.292 | 79.5 | 0.691 | 3.119 | 25.7 | 193.8 | --- | 5.274 | 5.90 | 0.289 | 63.3 | 121.2 | 8.9 | 0.244 |
| 4-1430 | 4-2730 | 0.376 | 262.4 | -49.0 | -7.35 | 1.292 | 80.1 | 0.691 | 3.134 | 24.4 | 194.4 | --- | 5.299 | 6.97 | 0.291 | 62.6 | 122.1 | 9.9 | 0.247 |
| 4-1430 | 4-2750 | 0.384 | 263.9 | -54.3 | -8.91 | 1.293 | 80.6 | 0.691 | 3.149 | 23.1 | 194.8 | --- | 5.324 | 8.50 | 0.293 | 61.9 | 123.1 | 11.3 | 0.251 |
| 4-1430 | 4-2770 | 0.405 | 264.7 | -61.8 | -11.33 | 1.293 | 81.1 | 0.691 | 3.163 | 21.7 | 195.3 | --- | 5.351 | 10.91 | 0.296 | 61.3 | 124.3 | 13.6 | 0.257 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1430 | 4-2790 | 0.453 | 262.0 | -72.9 | -15.63 | 1.294 | 81.7 | 0.692 | 3.178 | 20.4 | 195.8 | --- | 5.377 | 15.19 | 0.298 | 60.6 | 125.9 | 17.3 | 0.267 |
| 4-1430 | 4-2810 | 0.592 | 169.0 | -85.4 | -25.14 | 1.295 | 82.2 | 0.692 | 3.194 | 19.1 | 196.2 | --- | 5.405 | 24.68 | 0.300 | 60.0 | 129.0 | 24.1 | 0.293 |
| 4-1430 | 4-2830 | 1.123 | 116.0 | -55.0 | -56.75 | 1.295 | 82.6 | 0.693 | 3.209 | 18.1 | 196.7 | --- | 5.433 | 56.27 | 0.302 | 59.4 | 139.4 | 33.5 | 0.414 |
| 4-1430 | 4-2850 | 1.000 | 239.8 | 67.6 | 49.47 | 1.296 | 83.7 | 0.693 | 3.224 | 15.5 | 197.1 | --- | 5.458 | -49.97 | 0.305 | 58.9 | 136.0 | -28.7 | 0.389 |
| 4-1430 | 4-2870 | 0.545 | 270.7 | 41.7 | 22.57 | 1.296 | 84.1 | 0.694 | 3.240 | 14.4 | 197.5 | --- | 5.487 | -23.09 | 0.307 | 58.3 | 130.2 | -18.0 | 0.294 |
| 4-1430 | 4-2890 | 0.419 | 277.3 | 25.1 | 14.03 | 1.297 | 84.6 | 0.694 | 3.256 | 13.1 | 197.9 | --- | 5.517 | -14.57 | 0.309 | 57.8 | 129.9 | -11.4 | 0.277 |
| 4-1430 | 4-2910 | 0.370 | 281.2 | 14.6 | 10.04 | 1.298 | 85.2 | 0.695 | 3.271 | 11.7 | 198.3 | --- | 5.546 | -10.60 | 0.311 | 57.3 | 130.6 | -7.9 | 0.272 |
| 4-1430 | 4-2930 | 0.346 | 284.5 | 7.7 | 7.75 | 1.298 | 85.8 | 0.696 | 3.287 | 10.3 | 198.7 | --- | 5.576 | -8.33 | 0.313 | 56.8 | 131.5 | -5.7 | 0.272 |
| 4-1430 | 4-2950 | 0.333 | 287.5 | 2.9 | 6.26 | 1.299 | 86.4 | 0.697 | 3.303 | 8.9 | 199.0 | --- | 5.606 | -6.86 | 0.315 | 56.3 | 132.6 | -4.3 | 0.272 |
| 4-1430 | 4-2970 | 0.325 | 290.4 | -0.6 | 5.22 | 1.299 | 87.0 | 0.698 | 3.319 | 7.4 | 199.4 | --- | 5.636 | -5.84 | 0.316 | 55.8 | 133.7 | -3.4 | 0.274 |
| 4-1430 | 4-2990 | 0.319 | 293.3 | -3.1 | 4.45 | 1.300 | 87.6 | 0.699 | 3.335 | 6.0 | 199.7 | --- | 5.667 | -5.08 | 0.318 | 55.4 | 134.9 | -2.7 | 0.276 |
| 4-1430 | 4-3010 | 0.316 | 296.1 | -5.0 | 3.85 | 1.300 | 88.2 | 0.700 | 3.351 | 4.5 | 200.1 | --- | 5.698 | -4.51 | 0.320 | 54.9 | 136.1 | -2.1 | 0.277 |
| 4-1430 | 4-3030 | 0.314 | 299.0 | -6.3 | 3.38 | 1.301 | 88.8 | 0.702 | 3.367 | 3.0 | 200.4 | --- | 5.729 | -4.05 | 0.322 | 54.5 | 137.3 | -1.7 | 0.279 |
| 4-1440 | 4-1780 | 0.721 | 239.4 | -21.2 | -0.40 | 1.417 | 60.7 | 1.01842.783 | | 58.0 | 133.3 | --- | --- | 1.15 | 0.643 | 157.8 | 142.7 | 2.3 | 0.648 |
| 4-1440 | 4-1800 | 0.707 | 238.0 | -20.9 | -0.43 | 1.395 | 60.6 | 0.97126.451 | | 59.8 | 136.7 | --- | --- | 1.14 | 0.594 | 156.3 | 142.5 | 2.3 | 0.600 |
| 4-1440 | 4-1820 | 0.695 | 236.7 | -20.8 | -0.47 | 1.377 | 60.5 | 0.93311.313 | | 61.3 | 140.0 | --- | --- | 1.13 | 0.550 | 154.6 | 142.2 | 2.4 | 0.558 |
| 4-1440 | 4-1840 | 0.685 | 235.7 | -20.6 | -0.50 | 1.362 | 60.5 | 0.902 7.668 | | 62.7 | 143.1 | --- | --- | 1.13 | 0.511 | 152.8 | 141.8 | 2.4 | 0.520 |
| 4-1440 | 4-1860 | 0.676 | 234.9 | -20.5 | -0.53 | 1.349 | 60.4 | 0.877 6.042 | | 63.8 | 145.9 | --- | --- | 1.12 | 0.476 | 150.9 | 141.4 | 2.5 | 0.485 |
| 4-1440 | 4-1880 | 0.668 | 234.2 | -20.4 | -0.57 | 1.338 | 60.4 | 0.855 5.129 | | 64.8 | 148.6 | --- | --- | 1.12 | 0.444 | 148.8 | 140.9 | 2.5 | 0.455 |
| 4-1440 | 4-1900 | 0.661 | 233.7 | -20.3 | -0.60 | 1.328 | 60.5 | 0.838 4.550 | | 65.5 | 151.1 | --- | --- | 1.11 | 0.416 | 146.6 | 140.3 | 2.6 | 0.427 |
| 4-1440 | 4-1920 | 0.654 | 233.2 | -20.3 | -0.64 | 1.320 | 60.6 | 0.823 4.155 | | 66.1 | 153.4 | --- | --- | 1.11 | 0.391 | 144.3 | 139.6 | 2.6 | 0.402 |
| 4-1440 | 4-1940 | 0.648 | 232.9 | -20.3 | -0.67 | 1.314 | 60.7 | 0.810 3.870 | | 66.6 | 155.6 | --- | --- | 1.11 | 0.368 | 141.9 | 138.9 | 2.7 | 0.380 |
| 4-1440 | 4-1960 | 0.642 | 232.7 | -20.3 | -0.70 | 1.308 | 60.8 | 0.799 3.657 | | 66.9 | 157.7 | --- | --- | 1.11 | 0.348 | 139.3 | 138.1 | 2.8 | 0.359 |
| 4-1440 | 4-1980 | 0.636 | 232.5 | -20.4 | -0.74 | 1.303 | 60.9 | 0.789 3.495 | | 67.1 | 159.6 | --- | --- | 1.11 | 0.330 | 136.6 | 137.2 | 2.8 | 0.341 |
| 4-1440 | 4-2000 | 0.630 | 232.5 | -20.4 | -0.77 | 1.299 | 61.1 | 0.781 3.368 | | 67.1 | 161.4 | --- | --- | 1.11 | 0.314 | 133.8 | 136.2 | 2.9 | 0.324 |
| 4-1440 | 4-2020 | 0.625 | 232.5 | -20.5 | -0.81 | 1.295 | 61.3 | 0.774 3.268 | | 67.1 | 163.1 | --- | --- | 1.12 | 0.300 | 130.8 | 135.2 | 3.0 | 0.310 |
| 4-1440 | 4-2040 | 0.619 | 232.6 | -20.6 | -0.84 | 1.292 | 61.5 | 0.767 3.187 | | 66.9 | 164.8 | --- | --- | 1.12 | 0.287 | 127.8 | 134.1 | 3.1 | 0.296 |
| 4-1440 | 4-2060 | 0.614 | 232.7 | -20.7 | -0.87 | 1.290 | 61.7 | 0.762 3.123 | | 66.7 | 166.3 | --- | --- | 1.13 | 0.277 | 124.8 | 132.9 | 3.1 | 0.285 |
| 4-1440 | 4-2080 | 0.608 | 232.9 | -20.8 | -0.91 | 1.288 | 62.0 | 0.756 3.070 | | 66.4 | 167.7 | --- | --- | 1.13 | 0.267 | 121.6 | 131.7 | 3.2 | 0.274 |
| 4-1440 | 4-2100 | 0.602 | 233.1 | -21.0 | -0.95 | 1.286 | 62.3 | 0.752 3.028 | | 66.0 | 169.1 | --- | --- | 1.14 | 0.260 | 118.5 | 130.5 | 3.3 | 0.265 |
| 4-1440 | 4-2120 | 0.597 | 233.4 | -21.1 | -0.98 | 1.285 | 62.5 | 0.748 2.994 | | 65.5 | 170.4 | --- | --- | 1.15 | 0.253 | 115.3 | 129.3 | 3.4 | 0.257 |
| 4-1440 | 4-2140 | 0.591 | 233.8 | -21.3 | -1.02 | 1.283 | 62.8 | 0.744 2.966 | | 65.0 | 171.7 | --- | --- | 1.16 | 0.248 | 112.2 | 128.0 | 3.5 | 0.250 |
| 4-1440 | 4-2160 | 0.585 | 234.1 | -21.5 | -1.06 | 1.282 | 63.2 | 0.740 2.945 | | 64.4 | 172.9 | --- | --- | 1.17 | 0.243 | 109.1 | 126.8 | 3.6 | 0.243 |
| 4-1440 | 4-2180 | 0.579 | 234.6 | -21.7 | -1.10 | 1.282 | 63.5 | 0.737 2.928 | | 63.8 | 174.0 | --- | --- | 1.18 | 0.240 | 106.1 | 125.6 | 3.6 | 0.238 |
| 4-1440 | 4-2200 | 0.573 | 235.0 | -21.9 | -1.14 | 1.281 | 63.8 | 0.734 2.915 | | 63.1 | 175.1 | --- | --- | 1.20 | 0.238 | 103.2 | 124.4 | 3.7 | 0.234 |
| 4-1440 | 4-2220 | 0.567 | 235.5 | -22.1 | -1.18 | 1.281 | 64.2 | 0.732 2.905 | | 62.3 | 176.1 | --- | --- | 1.21 | 0.236 | 100.3 | 123.3 | 3.8 | 0.230 |
| 4-1440 | 4-2240 | 0.560 | 236.1 | -22.4 | -1.22 | 1.280 | 64.6 | 0.729 2.899 | | 61.5 | 177.2 | --- | --- | 1.23 | 0.235 | 97.6 | 122.2 | 3.9 | 0.227 |
| 4-1440 | 4-2260 | 0.554 | 236.6 | -22.6 | -1.26 | 1.280 | 64.9 | 0.727 2.895 | | 60.7 | 178.1 | --- | --- | 1.25 | 0.235 | 94.9 | 121.2 | 3.9 | 0.225 |
| 4-1440 | 4-2280 | 0.548 | 237.3 | -22.9 | -1.31 | 1.280 | 65.3 | 0.724 2.893 | | 59.8 | 179.1 | --- | --- | 1.27 | 0.235 | 92.4 | 120.3 | 4.0 | 0.223 |
| 4-1440 | 4-2300 | 0.541 | 237.9 | -23.2 | -1.36 | 1.280 | 65.7 | 0.722 2.893 | | 58.9 | 180.0 | --- | --- | 1.29 | 0.236 | 90.0 | 119.4 | 4.1 | 0.222 |
| 4-1440 | 4-2320 | 0.535 | 238.6 | -23.5 | -1.40 | 1.280 | 66.1 | 0.720 2.895 | | 58.0 | 180.9 | --- | 4.981 | 1.32 | 0.237 | 87.8 | 118.7 | 4.1 | 0.221 |
| 4-1440 | 4-2340 | 0.528 | 239.3 | -23.8 | -1.46 | 1.280 | 66.6 | 0.719 2.899 | | 57.0 | 181.7 | --- | 4.982 | 1.35 | 0.239 | 85.6 | 118.0 | 4.2 | 0.220 |
| 4-1440 | 4-2360 | 0.521 | 240.1 | -24.1 | -1.51 | 1.281 | 67.0 | 0.717 2.904 | | 56.0 | 182.5 | --- | 4.985 | 1.38 | 0.240 | 83.6 | 117.4 | 4.2 | 0.220 |
| 4-1440 | 4-2380 | 0.515 | 240.8 | -24.4 | -1.56 | 1.281 | 67.4 | 0.715 2.910 | | 55.0 | 183.3 | --- | 4.991 | 1.41 | 0.242 | 81.7 | 117.0 | 4.3 | 0.220 |
| 4-1440 | 4-2400 | 0.508 | 241.7 | -24.8 | -1.62 | 1.281 | 67.9 | 0.714 2.917 | | 54.0 | 184.1 | --- | 4.999 | 1.45 | 0.245 | 80.0 | 116.6 | 4.3 | 0.221 |
| 4-1440 | 4-2420 | 0.501 | 242.5 | -25.1 | -1.68 | 1.281 | 68.3 | 0.712 2.925 | | 52.9 | 184.9 | --- | 5.008 | 1.49 | 0.247 | 78.3 | 116.3 | 4.4 | 0.221 |
| 4-1440 | 4-2440 | 0.494 | 243.4 | -25.5 | -1.75 | 1.282 | 68.8 | 0.711 2.934 | | 51.8 | 185.6 | --- | 5.020 | 1.54 | 0.249 | 76.7 | 116.1 | 4.4 | 0.222 |
| 4-1440 | 4-2460 | 0.487 | 244.4 | -25.9 | -1.82 | 1.282 | 69.2 | 0.710 2.944 | | 50.7 | 186.3 | --- | 5.033 | 1.59 | 0.252 | 75.2 | 116.0 | 4.5 | 0.224 |
| 4-1440 | 4-2480 | 0.481 | 245.3 | -26.3 | -1.90 | 1.283 | 69.7 | 0.708 2.954 | | 49.6 | 187.0 | --- | 5.047 | 1.64 | 0.255 | 73.8 | 116.0 | 4.5 | 0.225 |
| 4-1440 | 4-2500 | 0.474 | 246.4 | -26.8 | -1.98 | 1.283 | 70.2 | 0.707 2.965 | | 48.4 | 187.6 | --- | 5.063 | 1.70 | 0.257 | 72.5 | 116.0 | 4.6 | 0.226 |
| 4-1440 | 4-2520 | 0.467 | 247.4 | -27.2 | -2.06 | 1.284 | 70.7 | 0.706 2.977 | | 47.2 | 188.3 | --- | 5.080 | 1.77 | 0.260 | 71.3 | 116.2 | 4.7 | 0.228 |
| 4-1440 | 4-2540 | 0.460 | 248.5 | -27.7 | -2.16 | 1.284 | 71.2 | 0.705 2.989 | | 46.0 | 188.9 | --- | 5.098 | 1.84 | 0.263 | 70.1 | 116.4 | 4.7 | 0.230 |
| 4-1440 | 4-2560 | 0.453 | 249.7 | -28.3 | -2.26 | 1.285 | 71.7 | 0.705 3.002 | | 44.8 | 189.6 | --- | 5.116 | 1.92 | 0.266 | 69.0 | 116.7 | 4.8 | 0.231 |
| 4-1440 | 4-2580 | 0.447 | 250.9 | -28.8 | -2.37 | 1.285 | 72.2 | 0.704 3.015 | | 43.6 | 190.2 | --- | 5.136 | 2.01 | 0.269 | 68.0 | 117.1 | 4.9 | 0.233 |
| 4-1440 | 4-2600 | 0.440 | 252.1 | -29.4 | -2.49 | 1.286 | 72.7 | 0.703 3.028 | | 42.4 | 190.7 | --- | 5.157 | 2.12 | 0.271 | 67.0 | 117.5 | 5.0 | 0.235 |
| 4-1440 | 4-2620 | 0.433 | 253.4 | -30.1 | -2.63 | 1.287 | 73.2 | 0.702 3.042 | | 41.1 | 191.3 | --- | 5.178 | 2.23 | 0.274 | 66.1 | 118.0 | 5.1 | 0.237 |
| 4-1440 | 4-2640 | 0.427 | 254.8 | -30.8 | -2.78 | 1.287 | 73.7 | 0.702 3.056 | | 39.8 | 191.9 | --- | 5.200 | 2.37 | 0.277 | 65.3 | 118.6 | 5.2 | 0.239 |
| 4-1440 | 4-2660 | 0.420 | 256.2 | -31.6 | -2.95 | 1.288 | 74.2 | 0.701 3.070 | | 38.5 | 192.4 | --- | 5.223 | 2.52 | 0.280 | 64.4 | 119.2 | 5.3 | 0.241 |
| 4-1440 | 4-2680 | 0.414 | 257.7 | -32.5 | -3.15 | 1.288 | 74.8 | 0.701 3.085 | | 37.2 | 193.0 | --- | 5.246 | 2.70 | 0.282 | 63.7 | 119.9 | 5.5 | 0.243 |
| 4-1440 | 4-2700 | 0.408 | 259.2 | -33.5 | -3.37 | 1.289 | 75.3 | 0.700 3.100 | | 35.9 | 193.5 | --- | 5.270 | 2.91 | 0.285 | 62.9 | 120.6 | 5.6 | 0.245 |
| 4-1440 | 4-2720 | 0.403 | 260.8 | -34.6 | -3.64 | 1.290 | 75.8 | 0.700 3.115 | | 34.6 | 194.0 | --- | 5.295 | 3.15 | 0.288 | 62.2 | 121.4 | 5.9 | 0.248 |
| 4-1440 | 4-2740 | 0.398 | 262.4 | -35.8 | -3.95 | 1.290 | 76.4 | 0.700 3.130 | | 33.3 | 194.5 | --- | 5.320 | 3.45 | 0.290 | 61.5 | 122.2 | 6.1 | 0.250 |
| 4-1440 | 4-2760 | 0.393 | 264.2 | -37.3 | -4.33 | 1.291 | 76.9 | 0.699 3.145 | | 31.9 | 194.9 | --- | 5.345 | 3.80 | 0.293 | 60.9 | 123.1 | 6.4 | 0.252 |
| 4-1440 | 4-2780 | 0.389 | 266.0 | -39.1 | -4.79 | 1.291 | 77.5 | 0.699 3.161 | | 30.6 | 195.4 | --- | 5.371 | 4.25 | 0.295 | 60.3 | 124.0 | 6.8 | 0.255 |
| 4-1440 | 4-2800 | 0.386 | 267.9 | -41.3 | -5.38 | 1.292 | 78.0 | 0.699 3.177 | | 29.2 | 195.9 | --- | 5.398 | 4.82 | 0.298 | 59.7 | 125.0 | 7.3 | 0.257 |
| 4-1440 | 4-2820 | 0.385 | 269.9 | -44.1 | -6.15 | 1.293 | 78.6 | 0.699 3.192 | | 27.8 | 196.3 | --- | 5.425 | 5.57 | 0.300 | 59.2 | 126.0 | 8.0 | 0.260 |
| 4-1440 | 4-2840 | 0.387 | 271.9 | -47.8 | -7.20 | 1.293 | 79.2 | 0.699 3.208 | | 26.4 | 196.7 | --- | 5.452 | 6.61 | 0.302 | 58.6 | 127.1 | 8.9 | 0.263 |
| 4-1440 | 4-2860 | 0.394 | 274.0 | -52.8 | -8.74 | 1.294 | 79.7 | 0.699 3.224 | | 25.0 | 197.2 | --- | 5.480 | 8.12 | 0.304 | 58.1 | 128.3 | 10.3 | 0.266 |
| 4-1440 | 4-2880 | 0.412 | 276.1 | -60.2 | -11.17 | 1.294 | 80.3 | 0.700 3.241 | | 23.6 | 197.6 | --- | 5.508 | 10.54 | 0.307 | 57.6 | 129.7 | 12.4 | 0.271 |
| 4-1440 | 4-2900 | 0.461 | 276.9 | -71.7 | -15.61 | 1.295 | 80.9 | 0.700 3.257 | | 22.3 | 198.0 | --- | 5.537 | 14.96 | 0.309 | 57.1 | 131.6 | 16.1 | 0.281 |
| 4-1440 | 4-2920 | 0.612 | 168.6 | -87.4 | -26.06 | 1.296 | 81.4 | 0.700 3.273 | | 20.9 | 198.4 | --- | 5.566 | 25.40 | 0.311 | 56.7 | 135.2 | 23.4 | 0.308 |
| 4-1440 | 4-2940 | 1.266 | 122.8 | -50.7 | -65.46 | 1.296 | 81.8 | 0.701 3.289 | | 20.0 | 198.7 | --- | 5.596 | 64.77 | 0.313 | 56.2 | 148.6 | 32.5 | 0.458 |
| 4-1440 | 4-2960 | 0.840 | 254.7 | 59.2 | 40.01 | 1.297 | 82.8 | 0.701 3.306 | | 17.4 | 199.1 | --- | 5.623 | -40.71 | 0.315 | 55.8 | 139.8 | -26.0 | 0.363 |
| 4-1440 | 4-2980 | 0.496 | 277.1 | 34.6 | 18.99 | 1.297 | 83.3 | 0.702 3.322 | | 16.2 | 199.5 | --- | 5.653 | -19.70 | 0.317 | 55.4 | 135.9 | -15.0 | 0.298 |
| 4-1440 | 4-3000 | 0.401 | 283.6 | 19.5 | 12.02 | 1.298 | 83.9 | 0.702 3.339 | | 14.8 | 199.8 | --- | 5.683 | -12.76 | 0.319 | 55.0 | 136.1 | -9.5 | 0.286 |
| 4-1440 | 4-3020 | 0.363 | 287.8 | 10.3 | 8.66 | 1.298 | 84.5 | 0.703 3.355 | | 13.3 | 200.1 | --- | 5.714 | -9.41 | 0.320 | 54.6 | 137.0 | -6.6 | 0.284 |
| 4-1440 | 4-3040 | 0.344 | 291.2 | 4.3 | 6.68 | 1.299 | 85.1 | 0.704 3.372 | | 11.9 | 200.5 | --- | 5.745 | -7.45 | 0.322 | 54.2 | 138.1 | -4.8 | 0.284 |
| 4-1450 | 4-1790 | 0.822 | 239.6 | -21.1 | -0.44 | 1.403 | 54.1 | 0.99284.792 | | 72.0 | 138.5 | --- | --- | 1.07 | 0.615 | 158.6 | 141.3 | 2.3 | 0.633 |
| 4-1450 | 4-1810 | 0.806 | 238.6 | -21.0 | -0.47 | 1.382 | 54.2 | 0.95514.492 | | 73.6 | 141.7 | --- | --- | 1.05 | 0.567 | 157.0 | 140.9 | 2.3 | 0.587 |
| 4-1450 | 4-1830 | 0.793 | 237.8 | -20.9 | -0.51 | 1.365 | 54.3 | 0.924 8.608 | | 74.9 | 144.8 | --- | --- | 1.04 | 0.524 | 155.3 | 140.5 | 2.4 | 0.546 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1450 | 4-1850 | 0.781 | 237.1 | -20.8 | -0.54 | 1.351 | 54.4 | 0.899 | 6.439 | 76.0 | 147.6 | --- | --- | 1.03 | 0.486 | 153.5 | 140.1 | 2.4 | 0.509 |
| 4-1450 | 4-1870 | 0.771 | 236.6 | -20.7 | -0.57 | 1.338 | 54.5 | 0.879 | 5.322 | 76.9 | 150.2 | --- | --- | 1.02 | 0.452 | 151.5 | 139.5 | 2.5 | 0.476 |
| 4-1450 | 4-1890 | 0.762 | 236.1 | -20.7 | -0.60 | 1.328 | 54.6 | 0.862 | 4.647 | 77.6 | 152.6 | --- | --- | 1.01 | 0.421 | 149.3 | 138.9 | 2.5 | 0.447 |
| 4-1450 | 4-1910 | 0.753 | 235.8 | -20.7 | -0.63 | 1.320 | 54.8 | 0.847 | 4.200 | 78.1 | 154.9 | --- | --- | 1.00 | 0.394 | 147.0 | 138.2 | 2.6 | 0.421 |
| 4-1450 | 4-1930 | 0.745 | 235.6 | -20.7 | -0.67 | 1.312 | 55.0 | 0.835 | 3.885 | 78.5 | 157.0 | --- | --- | 1.00 | 0.369 | 144.6 | 137.4 | 2.6 | 0.397 |
| 4-1450 | 4-1950 | 0.737 | 235.5 | -20.7 | -0.70 | 1.306 | 55.2 | 0.824 | 3.654 | 78.7 | 158.9 | --- | --- | 0.99 | 0.347 | 142.0 | 136.6 | 2.7 | 0.375 |
| 4-1450 | 4-1970 | 0.730 | 235.4 | -20.7 | -0.73 | 1.301 | 55.4 | 0.815 | 3.480 | 78.8 | 160.7 | --- | --- | 0.99 | 0.327 | 139.3 | 135.7 | 2.7 | 0.356 |
| 4-1450 | 4-1990 | 0.723 | 235.4 | -20.8 | -0.76 | 1.296 | 55.7 | 0.806 | 3.345 | 78.7 | 162.5 | --- | --- | 0.98 | 0.310 | 136.4 | 134.7 | 2.8 | 0.339 |
| 4-1450 | 4-2010 | 0.716 | 235.5 | -20.9 | -0.79 | 1.293 | 55.9 | 0.799 | 3.239 | 78.6 | 164.1 | --- | --- | 0.98 | 0.295 | 133.4 | 133.7 | 2.9 | 0.323 |
| 4-1450 | 4-2030 | 0.709 | 235.6 | -21.0 | -0.82 | 1.289 | 56.2 | 0.793 | 3.155 | 78.4 | 165.6 | --- | --- | 0.98 | 0.281 | 130.3 | 132.6 | 2.9 | 0.310 |
| 4-1450 | 4-2050 | 0.702 | 235.8 | -21.1 | -0.85 | 1.287 | 56.5 | 0.787 | 3.088 | 78.0 | 167.0 | --- | --- | 0.98 | 0.270 | 127.1 | 131.4 | 3.0 | 0.297 |
| 4-1450 | 4-2070 | 0.696 | 236.0 | -21.2 | -0.88 | 1.284 | 56.8 | 0.782 | 3.034 | 77.6 | 168.4 | --- | --- | 0.98 | 0.260 | 123.9 | 130.2 | 3.1 | 0.286 |
| 4-1450 | 4-2090 | 0.689 | 236.3 | -21.3 | -0.91 | 1.283 | 57.1 | 0.777 | 2.991 | 77.2 | 169.7 | --- | --- | 0.98 | 0.251 | 120.5 | 129.1 | 3.1 | 0.277 |
| 4-1450 | 4-2110 | 0.682 | 236.6 | -21.4 | -0.94 | 1.281 | 57.5 | 0.773 | 2.956 | 76.6 | 170.9 | --- | --- | 0.98 | 0.244 | 117.2 | 127.8 | 3.2 | 0.268 |
| 4-1450 | 4-2130 | 0.675 | 236.9 | -21.6 | -0.97 | 1.280 | 57.8 | 0.769 | 2.928 | 76.0 | 172.1 | --- | --- | 0.98 | 0.238 | 113.8 | 126.6 | 3.3 | 0.261 |
| 4-1450 | 4-2150 | 0.668 | 237.3 | -21.7 | -1.00 | 1.279 | 58.2 | 0.765 | 2.907 | 75.4 | 173.2 | --- | --- | 0.99 | 0.234 | 110.5 | 125.4 | 3.3 | 0.254 |
| 4-1450 | 4-2170 | 0.661 | 237.7 | -21.9 | -1.03 | 1.278 | 58.6 | 0.761 | 2.890 | 74.6 | 174.3 | --- | --- | 0.99 | 0.230 | 107.3 | 124.3 | 3.4 | 0.249 |
| 4-1450 | 4-2190 | 0.655 | 238.2 | -22.0 | -1.06 | 1.277 | 59.0 | 0.758 | 2.877 | 73.9 | 175.4 | --- | --- | 1.00 | 0.228 | 104.1 | 123.2 | 3.5 | 0.244 |
| 4-1450 | 4-2210 | 0.648 | 238.7 | -22.2 | -1.10 | 1.277 | 59.4 | 0.755 | 2.868 | 73.1 | 176.4 | --- | --- | 1.00 | 0.226 | 101.0 | 122.1 | 3.5 | 0.240 |
| 4-1450 | 4-2230 | 0.640 | 239.2 | -22.4 | -1.13 | 1.277 | 59.8 | 0.752 | 2.862 | 72.3 | 177.3 | --- | --- | 1.01 | 0.225 | 98.1 | 121.1 | 3.6 | 0.237 |
| 4-1450 | 4-2250 | 0.633 | 239.7 | -22.6 | -1.16 | 1.277 | 60.2 | 0.750 | 2.858 | 71.4 | 178.2 | --- | --- | 1.02 | 0.225 | 95.3 | 120.1 | 3.6 | 0.235 |
| 4-1450 | 4-2270 | 0.626 | 240.3 | -22.8 | -1.19 | 1.276 | 60.6 | 0.747 | 2.857 | 70.5 | 179.1 | --- | --- | 1.03 | 0.225 | 92.6 | 119.3 | 3.7 | 0.233 |
| 4-1450 | 4-2290 | 0.619 | 240.9 | -23.0 | -1.23 | 1.277 | 61.0 | 0.745 | 2.858 | 69.5 | 180.0 | --- | --- | 1.04 | 0.226 | 90.0 | 118.5 | 3.7 | 0.231 |
| 4-1450 | 4-2310 | 0.611 | 241.5 | -23.2 | -1.27 | 1.277 | 61.5 | 0.742 | 2.860 | 68.5 | 180.8 | --- | 4.983 | 1.06 | 0.228 | 87.6 | 117.8 | 3.8 | 0.230 |
| 4-1450 | 4-2330 | 0.604 | 242.2 | -23.5 | -1.30 | 1.277 | 61.9 | 0.740 | 2.864 | 67.5 | 181.6 | --- | 4.984 | 1.07 | 0.229 | 85.4 | 117.1 | 3.8 | 0.229 |
| 4-1450 | 4-2350 | 0.597 | 242.9 | -23.7 | -1.34 | 1.277 | 62.4 | 0.738 | 2.870 | 66.5 | 182.4 | --- | 4.987 | 1.09 | 0.231 | 83.2 | 116.6 | 3.8 | 0.229 |
| 4-1450 | 4-2370 | 0.589 | 243.6 | -23.9 | -1.38 | 1.277 | 62.9 | 0.736 | 2.876 | 65.5 | 183.2 | --- | 4.993 | 1.10 | 0.234 | 81.2 | 116.2 | 3.9 | 0.229 |
| 4-1450 | 4-2390 | 0.582 | 244.3 | -24.2 | -1.42 | 1.278 | 63.3 | 0.734 | 2.884 | 64.4 | 183.9 | --- | 5.001 | 1.12 | 0.236 | 79.4 | 115.9 | 3.9 | 0.229 |
| 4-1450 | 4-2410 | 0.574 | 245.1 | -24.4 | -1.46 | 1.278 | 63.8 | 0.732 | 2.893 | 63.3 | 184.6 | --- | 5.010 | 1.15 | 0.239 | 77.6 | 115.6 | 3.9 | 0.230 |
| 4-1450 | 4-2430 | 0.566 | 245.9 | -24.7 | -1.50 | 1.279 | 64.3 | 0.730 | 2.902 | 62.2 | 185.4 | --- | 5.022 | 1.17 | 0.242 | 76.0 | 115.4 | 4.0 | 0.230 |
| 4-1450 | 4-2450 | 0.559 | 246.7 | -25.0 | -1.55 | 1.279 | 64.8 | 0.728 | 2.913 | 61.0 | 186.0 | --- | 5.035 | 1.19 | 0.245 | 74.5 | 115.4 | 4.0 | 0.231 |
| 4-1450 | 4-2470 | 0.551 | 247.6 | -25.3 | -1.60 | 1.280 | 65.3 | 0.727 | 2.924 | 59.9 | 186.7 | --- | 5.049 | 1.22 | 0.248 | 73.0 | 115.4 | 4.0 | 0.232 |
| 4-1450 | 4-2490 | 0.543 | 248.5 | -25.5 | -1.65 | 1.280 | 65.8 | 0.725 | 2.936 | 58.7 | 187.3 | --- | 5.065 | 1.25 | 0.251 | 71.7 | 115.5 | 4.0 | 0.234 |
| 4-1450 | 4-2510 | 0.536 | 249.4 | -25.9 | -1.70 | 1.281 | 66.3 | 0.724 | 2.948 | 57.5 | 188.0 | --- | 5.081 | 1.29 | 0.254 | 70.5 | 115.6 | 4.1 | 0.235 |
| 4-1450 | 4-2530 | 0.528 | 250.3 | -26.2 | -1.76 | 1.281 | 66.8 | 0.722 | 2.961 | 56.3 | 188.6 | --- | 5.099 | 1.32 | 0.257 | 69.3 | 115.9 | 4.1 | 0.237 |
| 4-1450 | 4-2550 | 0.520 | 251.3 | -26.5 | -1.81 | 1.282 | 67.3 | 0.721 | 2.974 | 55.1 | 189.2 | --- | 5.118 | 1.36 | 0.260 | 68.2 | 116.2 | 4.1 | 0.238 |
| 4-1450 | 4-2570 | 0.512 | 252.3 | -26.8 | -1.88 | 1.282 | 67.8 | 0.720 | 2.987 | 53.8 | 189.8 | --- | 5.138 | 1.41 | 0.263 | 67.2 | 116.6 | 4.2 | 0.240 |
| 4-1450 | 4-2590 | 0.505 | 253.4 | -27.2 | -1.94 | 1.283 | 68.3 | 0.719 | 3.001 | 52.6 | 190.4 | --- | 5.158 | 1.46 | 0.266 | 66.2 | 117.0 | 4.2 | 0.241 |
| 4-1450 | 4-2610 | 0.497 | 254.5 | -27.6 | -2.02 | 1.284 | 68.9 | 0.717 | 3.016 | 51.3 | 190.9 | --- | 5.179 | 1.51 | 0.269 | 65.3 | 117.5 | 4.2 | 0.243 |
| 4-1450 | 4-2630 | 0.489 | 255.6 | -28.0 | -2.09 | 1.284 | 69.4 | 0.716 | 3.030 | 50.0 | 191.5 | --- | 5.201 | 1.57 | 0.272 | 64.4 | 118.1 | 4.3 | 0.245 |
| 4-1450 | 4-2650 | 0.482 | 256.8 | -28.4 | -2.18 | 1.285 | 69.9 | 0.715 | 3.045 | 48.7 | 192.0 | --- | 5.224 | 1.64 | 0.275 | 63.6 | 118.7 | 4.3 | 0.247 |
| 4-1450 | 4-2670 | 0.474 | 258.1 | -28.8 | -2.27 | 1.286 | 70.5 | 0.714 | 3.061 | 47.4 | 192.5 | --- | 5.247 | 1.71 | 0.278 | 62.9 | 119.4 | 4.4 | 0.249 |
| 4-1450 | 4-2690 | 0.467 | 259.3 | -29.3 | -2.37 | 1.286 | 71.0 | 0.713 | 3.076 | 46.1 | 193.1 | --- | 5.270 | 1.79 | 0.281 | 62.1 | 120.1 | 4.4 | 0.250 |
| 4-1450 | 4-2710 | 0.459 | 260.7 | -29.8 | -2.48 | 1.287 | 71.6 | 0.713 | 3.092 | 44.8 | 193.6 | --- | 5.294 | 1.89 | 0.284 | 61.5 | 120.9 | 4.5 | 0.252 |
| 4-1450 | 4-2730 | 0.452 | 262.0 | -30.3 | -2.60 | 1.287 | 72.1 | 0.712 | 3.107 | 43.4 | 194.0 | --- | 5.319 | 1.99 | 0.286 | 60.8 | 121.7 | 4.6 | 0.254 |
| 4-1450 | 4-2750 | 0.445 | 263.5 | -30.9 | -2.74 | 1.288 | 72.7 | 0.711 | 3.123 | 42.1 | 194.5 | --- | 5.344 | 2.12 | 0.289 | 60.2 | 122.6 | 4.7 | 0.256 |
| 4-1450 | 4-2770 | 0.438 | 264.9 | -31.6 | -2.90 | 1.289 | 73.2 | 0.710 | 3.139 | 40.7 | 195.0 | --- | 5.370 | 2.26 | 0.292 | 59.6 | 123.5 | 4.8 | 0.258 |
| 4-1450 | 4-2790 | 0.431 | 266.5 | -32.3 | -3.07 | 1.289 | 73.8 | 0.710 | 3.156 | 39.3 | 195.4 | --- | 5.396 | 2.42 | 0.294 | 59.1 | 124.4 | 4.9 | 0.260 |
| 4-1450 | 4-2810 | 0.424 | 268.1 | -33.1 | -3.28 | 1.290 | 74.4 | 0.709 | 3.172 | 37.9 | 195.9 | --- | 5.422 | 2.61 | 0.297 | 58.6 | 125.4 | 5.0 | 0.262 |
| 4-1450 | 4-2830 | 0.418 | 269.8 | -34.0 | -3.52 | 1.291 | 74.9 | 0.709 | 3.189 | 36.6 | 196.3 | --- | 5.449 | 2.83 | 0.299 | 58.0 | 126.4 | 5.2 | 0.264 |
| 4-1450 | 4-2850 | 0.412 | 271.5 | -35.1 | -3.80 | 1.291 | 75.5 | 0.709 | 3.205 | 35.2 | 196.8 | --- | 5.476 | 3.10 | 0.302 | 57.6 | 127.4 | 5.4 | 0.266 |
| 4-1450 | 4-2870 | 0.406 | 273.4 | -36.3 | -4.15 | 1.292 | 76.1 | 0.708 | 3.222 | 33.8 | 197.2 | --- | 5.504 | 3.43 | 0.304 | 57.1 | 128.5 | 5.7 | 0.268 |
| 4-1450 | 4-2890 | 0.401 | 275.3 | -37.8 | -4.58 | 1.293 | 76.7 | 0.708 | 3.239 | 32.3 | 197.6 | --- | 5.532 | 3.84 | 0.306 | 56.7 | 129.6 | 6.0 | 0.270 |
| 4-1450 | 4-2910 | 0.398 | 277.4 | -39.7 | -5.12 | 1.293 | 77.2 | 0.708 | 3.255 | 30.9 | 198.0 | --- | 5.560 | 4.37 | 0.308 | 56.2 | 130.7 | 6.4 | 0.272 |
| 4-1450 | 4-2930 | 0.395 | 279.6 | -42.2 | -5.83 | 1.294 | 77.8 | 0.708 | 3.272 | 29.5 | 198.3 | --- | 5.588 | 5.07 | 0.310 | 55.8 | 131.9 | 7.0 | 0.274 |
| 4-1450 | 4-2950 | 0.395 | 281.9 | -45.5 | -6.82 | 1.294 | 78.4 | 0.708 | 3.289 | 28.1 | 198.7 | --- | 5.617 | 6.04 | 0.313 | 55.4 | 133.2 | 7.9 | 0.277 |
| 4-1450 | 4-2970 | 0.400 | 284.6 | -50.1 | -8.27 | 1.295 | 79.0 | 0.708 | 3.306 | 26.6 | 199.1 | --- | 5.646 | 7.47 | 0.315 | 55.0 | 134.5 | 9.1 | 0.280 |
| 4-1450 | 4-2990 | 0.416 | 287.6 | -57.1 | -10.62 | 1.296 | 79.6 | 0.708 | 3.323 | 25.2 | 199.4 | --- | 5.675 | 9.80 | 0.317 | 54.7 | 136.0 | 11.0 | 0.284 |
| 4-1450 | 4-3010 | 0.461 | 291.3 | -68.6 | -15.04 | 1.296 | 80.2 | 0.708 | 3.340 | 23.8 | 199.8 | --- | 5.705 | 14.21 | 0.318 | 54.3 | 138.0 | 14.6 | 0.292 |
| 4-1450 | 4-3030 | 0.619 | 290.1 | -89.4 | -26.22 | 1.297 | 80.7 | 0.708 | 3.357 | 22.4 | 200.1 | --- | 5.735 | 25.37 | 0.320 | 53.9 | 141.9 | 22.2 | 0.319 |
| 4-1450 | 4-3050 | 1.426 | 130.9 | -46.3 | -75.79 | 1.297 | 81.1 | 0.709 | 3.374 | 21.5 | 200.4 | --- | 5.767 | 74.93 | 0.322 | 53.6 | 158.8 | 30.8 | 0.505 |
| 4-1460 | 4-1800 | 0.930 | 241.2 | -21.4 | -0.50 | 1.389 | 47.4 | 0.975 | 22.136 | 86.5 | 144.2 | --- | --- | 0.97 | 0.587 | 159.9 | 139.5 | 2.3 | 0.621 |
| 4-1460 | 4-1820 | 0.912 | 240.5 | -21.3 | -0.53 | 1.370 | 47.6 | 0.947 | 10.129 | 87.7 | 147.1 | --- | --- | 0.95 | 0.540 | 158.3 | 139.1 | 2.3 | 0.577 |
| 4-1460 | 4-1840 | 0.897 | 240.0 | -21.2 | -0.56 | 1.354 | 47.9 | 0.923 | 7.003 | 88.7 | 149.8 | --- | --- | 0.94 | 0.498 | 156.5 | 138.6 | 2.4 | 0.537 |
| 4-1460 | 4-1860 | 0.884 | 239.6 | -21.2 | -0.59 | 1.340 | 48.1 | 0.904 | 5.578 | 89.5 | 152.3 | --- | --- | 0.92 | 0.461 | 154.6 | 138.0 | 2.4 | 0.502 |
| 4-1460 | 4-1880 | 0.871 | 239.3 | -21.2 | -0.63 | 1.329 | 48.4 | 0.888 | 4.771 | 90.0 | 154.5 | --- | --- | 0.91 | 0.427 | 152.5 | 137.3 | 2.5 | 0.471 |
| 4-1460 | 4-1900 | 0.860 | 239.1 | -21.2 | -0.66 | 1.319 | 48.7 | 0.874 | 4.257 | 90.4 | 156.7 | --- | --- | 0.90 | 0.397 | 150.3 | 136.6 | 2.5 | 0.442 |
| 4-1460 | 4-1920 | 0.850 | 239.0 | -21.2 | -0.68 | 1.311 | 49.0 | 0.862 | 3.905 | 90.6 | 158.6 | --- | --- | 0.88 | 0.370 | 147.9 | 135.8 | 2.6 | 0.417 |
| 4-1460 | 4-1940 | 0.840 | 238.9 | -21.2 | -0.71 | 1.304 | 49.3 | 0.852 | 3.652 | 90.7 | 160.4 | --- | --- | 0.87 | 0.346 | 145.3 | 134.9 | 2.6 | 0.394 |
| 4-1460 | 4-1960 | 0.831 | 238.9 | -21.3 | -0.74 | 1.299 | 49.6 | 0.843 | 3.463 | 90.7 | 162.1 | --- | --- | 0.86 | 0.325 | 142.6 | 134.0 | 2.7 | 0.374 |
| 4-1460 | 4-1980 | 0.822 | 239.0 | -21.3 | -0.77 | 1.294 | 49.9 | 0.835 | 3.319 | 90.5 | 163.7 | --- | --- | 0.86 | 0.306 | 139.7 | 133.0 | 2.7 | 0.356 |
| 4-1460 | 4-2000 | 0.813 | 239.1 | -21.4 | -0.80 | 1.290 | 50.3 | 0.828 | 3.207 | 90.3 | 165.2 | --- | --- | 0.85 | 0.289 | 136.6 | 132.0 | 2.8 | 0.340 |
| 4-1460 | 4-2020 | 0.805 | 239.3 | -21.5 | -0.82 | 1.286 | 50.6 | 0.822 | 3.119 | 89.9 | 166.6 | --- | --- | 0.84 | 0.274 | 133.4 | 130.9 | 2.8 | 0.325 |
| 4-1460 | 4-2040 | 0.797 | 239.5 | -21.6 | -0.85 | 1.284 | 51.0 | 0.816 | 3.050 | 89.5 | 168.0 | --- | --- | 0.84 | 0.261 | 130.1 | 129.8 | 2.9 | 0.312 |
| 4-1460 | 4-2060 | 0.789 | 239.8 | -21.7 | -0.88 | 1.281 | 51.4 | 0.810 | 2.994 | 89.0 | 169.2 | --- | --- | 0.83 | 0.250 | 126.6 | 128.6 | 3.0 | 0.301 |
| 4-1460 | 4-2080 | 0.781 | 240.1 | -21.8 | -0.90 | 1.279 | 51.8 | 0.806 | 2.949 | 88.4 | 170.4 | --- | --- | 0.83 | 0.241 | 123.1 | 127.4 | 3.0 | 0.291 |
| 4-1460 | 4-2100 | 0.773 | 240.4 | -21.9 | -0.93 | 1.278 | 52.2 | 0.801 | 2.914 | 87.8 | 171.6 | --- | --- | 0.82 | 0.233 | 119.5 | 126.3 | 3.1 | 0.282 |
| 4-1460 | 4-2120 | 0.765 | 240.8 | -22.0 | -0.95 | 1.276 | 52.6 | 0.797 | 2.886 | 87.1 | 172.7 | --- | --- | 0.82 | 0.227 | 115.9 | 125.1 | 3.1 | 0.274 |
| 4-1460 | 4-2140 | 0.757 | 241.2 | -22.2 | -0.98 | 1.275 | 53.0 | 0.793 | 2.864 | 86.3 | 173.7 | --- | --- | 0.82 | 0.222 | 112.3 | 124.0 | 3.2 | 0.268 |
| 4-1460 | 4-2160 | 0.749 | 241.6 | -22.3 | -1.00 | 1.274 | 53.4 | 0.789 | 2.847 | 85.6 | 174.7 | --- | --- | 0.82 | 0.218 | 108.7 | 122.9 | 3.2 | 0.262 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1460 | 4-2180 | 0.741 | 242.1 | -22.4 | -1.03 | 1.274 | 53.9 | 0.786 | 2.835 | 84.7 | 175.7 | --- | --- | 0.82 | 0.216 | 105.3 | 121.8 | 3.3 | 0.257 |
| 4-1460 | 4-2200 | 0.733 | 242.6 | -22.6 | -1.06 | 1.273 | 54.3 | 0.782 | 2.826 | 83.9 | 176.6 | --- | --- | 0.82 | 0.214 | 101.9 | 120.8 | 3.3 | 0.253 |
| 4-1460 | 4-2220 | 0.725 | 243.1 | -22.7 | -1.08 | 1.273 | 54.8 | 0.779 | 2.820 | 83.0 | 177.5 | --- | --- | 0.82 | 0.213 | 98.7 | 119.8 | 3.4 | 0.249 |
| 4-1460 | 4-2240 | 0.717 | 243.6 | -22.9 | -1.11 | 1.273 | 55.2 | 0.776 | 2.817 | 82.0 | 178.4 | --- | --- | 0.82 | 0.213 | 95.6 | 118.9 | 3.4 | 0.246 |
| 4-1460 | 4-2260 | 0.709 | 244.2 | -23.0 | -1.13 | 1.273 | 55.7 | 0.773 | 2.816 | 81.1 | 179.2 | --- | --- | 0.83 | 0.214 | 92.7 | 118.1 | 3.4 | 0.244 |
| 4-1460 | 4-2280 | 0.701 | 244.7 | -23.2 | -1.16 | 1.273 | 56.2 | 0.770 | 2.817 | 80.1 | 180.0 | --- | 4.987 | 0.83 | 0.215 | 89.9 | 117.4 | 3.5 | 0.242 |
| 4-1460 | 4-2300 | 0.693 | 245.3 | -23.4 | -1.19 | 1.273 | 56.7 | 0.767 | 2.821 | 79.1 | 180.8 | --- | 4.985 | 0.84 | 0.216 | 87.3 | 116.8 | 3.5 | 0.241 |
| 4-1460 | 4-2320 | 0.685 | 245.9 | -23.5 | -1.21 | 1.273 | 57.2 | 0.765 | 2.825 | 78.0 | 181.6 | --- | 4.986 | 0.84 | 0.218 | 84.9 | 116.2 | 3.5 | 0.240 |
| 4-1460 | 4-2340 | 0.677 | 246.6 | -23.7 | -1.24 | 1.274 | 57.6 | 0.762 | 2.831 | 77.0 | 182.3 | --- | 4.989 | 0.85 | 0.221 | 82.6 | 115.7 | 3.5 | 0.240 |
| 4-1460 | 4-2360 | 0.669 | 247.3 | -23.9 | -1.27 | 1.274 | 58.1 | 0.760 | 2.839 | 75.9 | 183.0 | --- | 4.995 | 0.86 | 0.223 | 80.5 | 115.4 | 3.6 | 0.239 |
| 4-1460 | 4-2380 | 0.660 | 247.9 | -24.1 | -1.30 | 1.274 | 58.6 | 0.757 | 2.847 | 74.7 | 183.7 | --- | 5.003 | 0.87 | 0.226 | 78.5 | 115.1 | 3.6 | 0.240 |
| 4-1460 | 4-2400 | 0.652 | 248.6 | -24.2 | -1.33 | 1.275 | 59.2 | 0.755 | 2.856 | 73.6 | 184.4 | --- | 5.013 | 0.88 | 0.229 | 76.7 | 114.9 | 3.6 | 0.240 |
| 4-1460 | 4-2420 | 0.644 | 249.4 | -24.4 | -1.36 | 1.275 | 59.7 | 0.753 | 2.867 | 72.5 | 185.1 | --- | 5.025 | 0.89 | 0.232 | 75.0 | 114.7 | 3.6 | 0.240 |
| 4-1460 | 4-2440 | 0.635 | 250.1 | -24.6 | -1.39 | 1.276 | 60.2 | 0.751 | 2.878 | 71.3 | 185.8 | --- | 5.038 | 0.90 | 0.236 | 73.4 | 114.7 | 3.6 | 0.241 |
| 4-1460 | 4-2460 | 0.627 | 250.9 | -24.8 | -1.42 | 1.276 | 60.7 | 0.749 | 2.889 | 70.1 | 186.4 | --- | 5.052 | 0.91 | 0.239 | 71.9 | 114.8 | 3.6 | 0.242 |
| 4-1460 | 4-2480 | 0.618 | 251.7 | -25.0 | -1.45 | 1.277 | 61.2 | 0.747 | 2.902 | 68.9 | 187.0 | --- | 5.068 | 0.93 | 0.242 | 70.6 | 114.9 | 3.7 | 0.243 |
| 4-1460 | 4-2500 | 0.610 | 252.5 | -25.2 | -1.49 | 1.278 | 61.8 | 0.745 | 2.914 | 67.7 | 187.6 | --- | 5.085 | 0.95 | 0.246 | 69.3 | 115.1 | 3.7 | 0.244 |
| 4-1460 | 4-2520 | 0.602 | 253.4 | -25.5 | -1.52 | 1.278 | 62.3 | 0.743 | 2.928 | 66.5 | 188.2 | --- | 5.102 | 0.96 | 0.249 | 68.1 | 115.3 | 3.7 | 0.245 |
| 4-1460 | 4-2540 | 0.593 | 254.2 | -25.7 | -1.56 | 1.279 | 62.8 | 0.741 | 2.942 | 65.2 | 188.8 | --- | 5.121 | 0.98 | 0.253 | 67.0 | 115.7 | 3.7 | 0.247 |
| 4-1460 | 4-2560 | 0.585 | 255.1 | -25.9 | -1.60 | 1.279 | 63.4 | 0.739 | 2.956 | 64.0 | 189.4 | --- | 5.141 | 1.01 | 0.256 | 66.0 | 116.1 | 3.7 | 0.248 |
| 4-1460 | 4-2580 | 0.576 | 256.1 | -26.1 | -1.64 | 1.280 | 63.9 | 0.737 | 2.971 | 62.7 | 190.0 | --- | 5.161 | 1.03 | 0.259 | 65.0 | 116.5 | 3.7 | 0.249 |
| 4-1460 | 4-2600 | 0.568 | 257.0 | -26.3 | -1.68 | 1.281 | 64.5 | 0.736 | 2.986 | 61.4 | 190.5 | --- | 5.182 | 1.06 | 0.263 | 64.1 | 117.1 | 3.7 | 0.251 |
| 4-1460 | 4-2620 | 0.559 | 258.0 | -26.6 | -1.73 | 1.281 | 65.0 | 0.734 | 3.001 | 60.1 | 191.0 | --- | 5.204 | 1.08 | 0.266 | 63.3 | 117.6 | 3.7 | 0.253 |
| 4-1460 | 4-2640 | 0.551 | 259.0 | -26.8 | -1.77 | 1.282 | 65.6 | 0.733 | 3.016 | 58.8 | 191.6 | --- | 5.227 | 1.12 | 0.269 | 62.5 | 118.3 | 3.8 | 0.254 |
| 4-1460 | 4-2660 | 0.542 | 260.1 | -27.1 | -1.82 | 1.283 | 66.1 | 0.731 | 3.032 | 57.5 | 192.1 | --- | 5.250 | 1.15 | 0.272 | 61.7 | 119.0 | 3.8 | 0.256 |
| 4-1460 | 4-2680 | 0.534 | 261.2 | -27.4 | -1.88 | 1.283 | 66.7 | 0.730 | 3.048 | 56.2 | 192.6 | --- | 5.273 | 1.19 | 0.275 | 61.0 | 119.7 | 3.8 | 0.257 |
| 4-1460 | 4-2700 | 0.525 | 262.3 | -27.6 | -1.93 | 1.284 | 67.2 | 0.729 | 3.064 | 54.8 | 193.1 | --- | 5.297 | 1.23 | 0.278 | 60.4 | 120.5 | 3.8 | 0.259 |
| 4-1460 | 4-2720 | 0.517 | 263.4 | -27.9 | -2.00 | 1.285 | 67.8 | 0.727 | 3.081 | 53.5 | 193.6 | --- | 5.322 | 1.28 | 0.281 | 59.8 | 121.3 | 3.8 | 0.261 |
| 4-1460 | 4-2740 | 0.509 | 264.6 | -28.2 | -2.06 | 1.286 | 68.4 | 0.726 | 3.097 | 52.1 | 194.0 | --- | 5.347 | 1.33 | 0.284 | 59.2 | 122.1 | 3.8 | 0.262 |
| 4-1460 | 4-2760 | 0.500 | 265.8 | -28.5 | -2.13 | 1.286 | 68.9 | 0.725 | 3.114 | 50.8 | 194.5 | --- | 5.372 | 1.39 | 0.287 | 58.6 | 123.0 | 3.9 | 0.264 |
| 4-1460 | 4-2780 | 0.492 | 267.1 | -28.8 | -2.21 | 1.287 | 69.5 | 0.724 | 3.131 | 49.4 | 195.0 | --- | 5.398 | 1.45 | 0.290 | 58.1 | 123.9 | 3.9 | 0.266 |
| 4-1460 | 4-2800 | 0.484 | 268.4 | -29.2 | -2.30 | 1.288 | 70.1 | 0.723 | 3.148 | 48.0 | 195.4 | --- | 5.424 | 1.52 | 0.293 | 57.6 | 124.9 | 3.9 | 0.267 |
| 4-1460 | 4-2820 | 0.476 | 269.8 | -29.6 | -2.39 | 1.288 | 70.7 | 0.722 | 3.165 | 46.6 | 195.8 | --- | 5.450 | 1.60 | 0.295 | 57.2 | 125.9 | 4.0 | 0.269 |
| 4-1460 | 4-2840 | 0.468 | 271.2 | -30.0 | -2.50 | 1.289 | 71.3 | 0.721 | 3.182 | 45.2 | 196.3 | --- | 5.477 | 1.69 | 0.298 | 56.7 | 126.9 | 4.0 | 0.271 |
| 4-1460 | 4-2860 | 0.460 | 272.7 | -30.4 | -2.62 | 1.290 | 71.8 | 0.720 | 3.199 | 43.8 | 196.7 | --- | 5.504 | 1.80 | 0.300 | 56.3 | 128.0 | 4.1 | 0.272 |
| 4-1460 | 4-2880 | 0.453 | 274.2 | -30.9 | -2.75 | 1.290 | 72.4 | 0.720 | 3.217 | 42.4 | 197.1 | --- | 5.531 | 1.92 | 0.303 | 55.9 | 129.1 | 4.1 | 0.274 |
| 4-1460 | 4-2900 | 0.445 | 275.8 | -31.4 | -2.90 | 1.291 | 73.0 | 0.719 | 3.234 | 41.0 | 197.5 | --- | 5.559 | 2.06 | 0.305 | 55.5 | 130.2 | 4.2 | 0.276 |
| 4-1460 | 4-2920 | 0.438 | 277.4 | -32.0 | -3.08 | 1.291 | 73.6 | 0.718 | 3.251 | 39.5 | 197.9 | --- | 5.587 | 2.22 | 0.307 | 55.1 | 131.3 | 4.3 | 0.277 |
| 4-1460 | 4-2940 | 0.431 | 279.2 | -32.7 | -3.29 | 1.292 | 74.2 | 0.718 | 3.269 | 38.1 | 198.3 | --- | 5.615 | 2.41 | 0.310 | 54.7 | 132.5 | 4.5 | 0.279 |
| 4-1460 | 4-2960 | 0.424 | 281.0 | -33.5 | -3.53 | 1.293 | 74.8 | 0.717 | 3.286 | 36.7 | 198.6 | --- | 5.644 | 2.65 | 0.312 | 54.4 | 133.6 | 4.6 | 0.280 |
| 4-1460 | 4-2980 | 0.418 | 282.9 | -34.5 | -3.83 | 1.293 | 75.4 | 0.717 | 3.304 | 35.2 | 199.0 | --- | 5.672 | 2.93 | 0.314 | 54.1 | 134.8 | 4.8 | 0.282 |
| 4-1460 | 4-3000 | 0.412 | 284.8 | -35.7 | -4.20 | 1.294 | 76.0 | 0.717 | 3.321 | 33.8 | 199.4 | --- | 5.701 | 3.29 | 0.316 | 53.7 | 136.1 | 5.1 | 0.284 |
| 4-1460 | 4-3020 | 0.407 | 287.0 | -37.2 | -4.68 | 1.295 | 76.6 | 0.716 | 3.339 | 32.3 | 199.7 | --- | 5.731 | 3.75 | 0.318 | 53.4 | 137.3 | 5.4 | 0.286 |
| 4-1460 | 4-3040 | 0.404 | 289.3 | -39.2 | -5.31 | 1.295 | 77.2 | 0.716 | 3.356 | 30.9 | 200.0 | --- | 5.760 | 4.37 | 0.320 | 53.1 | 138.6 | 5.9 | 0.287 |
| 4-1460 | 4-3060 | 0.402 | 291.8 | -42.0 | -6.18 | 1.296 | 77.8 | 0.716 | 3.374 | 29.4 | 200.4 | --- | 5.790 | 5.23 | 0.322 | 52.8 | 140.0 | 6.6 | 0.289 |
| 4-1470 | 4-1810 | 1.042 | 243.8 | -21.8 | -0.58 | 1.377 | 40.5 | 0.968 | 13.188 | 101.2 | 150.1 | --- | --- | 0.85 | 0.561 | 161.6 | 137.5 | 2.3 | 0.614 |
| 4-1470 | 4-1830 | 1.022 | 243.4 | -21.7 | -0.61 | 1.359 | 41.0 | 0.947 | 7.924 | 101.9 | 152.6 | --- | --- | 0.83 | 0.515 | 159.9 | 136.9 | 2.4 | 0.571 |
| 4-1470 | 4-1850 | 1.004 | 243.1 | -21.7 | -0.65 | 1.343 | 41.4 | 0.930 | 5.968 | 102.5 | 154.8 | --- | --- | 0.81 | 0.473 | 158.1 | 136.3 | 2.4 | 0.533 |
| 4-1470 | 4-1870 | 0.989 | 242.9 | -21.7 | -0.68 | 1.331 | 41.8 | 0.915 | 4.958 | 102.8 | 156.9 | --- | --- | 0.79 | 0.436 | 156.2 | 135.6 | 2.4 | 0.499 |
| 4-1470 | 4-1890 | 0.975 | 242.8 | -21.7 | -0.70 | 1.320 | 42.2 | 0.902 | 4.348 | 103.0 | 158.8 | --- | --- | 0.77 | 0.403 | 154.1 | 134.9 | 2.5 | 0.468 |
| 4-1470 | 4-1910 | 0.961 | 242.8 | -21.8 | -0.73 | 1.311 | 42.6 | 0.891 | 3.944 | 103.1 | 160.6 | --- | --- | 0.76 | 0.374 | 151.7 | 134.1 | 2.5 | 0.441 |
| 4-1470 | 4-1930 | 0.949 | 242.8 | -21.8 | -0.76 | 1.303 | 43.0 | 0.882 | 3.661 | 103.0 | 162.2 | --- | --- | 0.74 | 0.347 | 149.2 | 133.2 | 2.6 | 0.417 |
| 4-1470 | 4-1950 | 0.938 | 242.9 | -21.9 | -0.78 | 1.297 | 43.4 | 0.874 | 3.454 | 102.8 | 163.8 | --- | --- | 0.73 | 0.323 | 146.5 | 132.3 | 2.6 | 0.396 |
| 4-1470 | 4-1970 | 0.927 | 243.1 | -21.9 | -0.81 | 1.292 | 43.9 | 0.866 | 3.298 | 102.5 | 165.2 | --- | --- | 0.72 | 0.302 | 143.6 | 131.3 | 2.6 | 0.376 |
| 4-1470 | 4-1990 | 0.916 | 243.3 | -22.0 | -0.83 | 1.287 | 44.3 | 0.859 | 3.178 | 102.0 | 166.6 | --- | --- | 0.71 | 0.284 | 140.5 | 130.2 | 2.7 | 0.359 |
| 4-1470 | 4-2010 | 0.906 | 243.5 | -22.1 | -0.86 | 1.284 | 44.8 | 0.853 | 3.084 | 101.6 | 167.8 | --- | --- | 0.70 | 0.267 | 137.2 | 129.1 | 2.7 | 0.344 |
| 4-1470 | 4-2030 | 0.897 | 243.8 | -22.2 | -0.88 | 1.281 | 45.2 | 0.847 | 3.011 | 101.0 | 169.0 | --- | --- | 0.69 | 0.253 | 133.8 | 128.0 | 2.8 | 0.330 |
| 4-1470 | 4-2050 | 0.887 | 244.1 | -22.3 | -0.90 | 1.278 | 45.7 | 0.842 | 2.953 | 100.4 | 170.2 | --- | --- | 0.68 | 0.240 | 130.1 | 126.9 | 2.8 | 0.318 |
| 4-1470 | 4-2070 | 0.878 | 244.4 | -22.3 | -0.93 | 1.276 | 46.2 | 0.837 | 2.906 | 99.7 | 171.3 | --- | --- | 0.67 | 0.230 | 126.3 | 125.8 | 2.9 | 0.308 |
| 4-1470 | 4-2090 | 0.868 | 244.8 | -22.4 | -0.95 | 1.274 | 46.6 | 0.832 | 2.870 | 99.0 | 172.3 | --- | --- | 0.67 | 0.221 | 122.5 | 124.6 | 2.9 | 0.298 |
| 4-1470 | 4-2110 | 0.859 | 245.2 | -22.6 | -0.97 | 1.273 | 47.1 | 0.828 | 2.841 | 98.2 | 173.3 | --- | --- | 0.66 | 0.214 | 118.5 | 123.5 | 3.0 | 0.290 |
| 4-1470 | 4-2130 | 0.850 | 245.6 | -22.7 | -0.99 | 1.272 | 47.6 | 0.823 | 2.819 | 97.4 | 174.2 | --- | --- | 0.66 | 0.209 | 114.6 | 122.4 | 3.0 | 0.283 |
| 4-1470 | 4-2150 | 0.841 | 246.1 | -22.8 | -1.01 | 1.271 | 48.1 | 0.819 | 2.802 | 96.5 | 175.2 | --- | --- | 0.65 | 0.204 | 110.7 | 121.4 | 3.1 | 0.277 |
| 4-1470 | 4-2170 | 0.832 | 246.5 | -22.9 | -1.03 | 1.270 | 48.6 | 0.816 | 2.789 | 95.6 | 176.0 | --- | --- | 0.65 | 0.201 | 106.8 | 120.4 | 3.1 | 0.272 |
| 4-1470 | 4-2190 | 0.823 | 247.0 | -23.0 | -1.05 | 1.270 | 49.1 | 0.812 | 2.781 | 94.6 | 176.9 | --- | --- | 0.64 | 0.200 | 103.1 | 119.4 | 3.1 | 0.267 |
| 4-1470 | 4-2210 | 0.814 | 247.5 | -23.1 | -1.07 | 1.270 | 49.6 | 0.808 | 2.775 | 93.7 | 177.7 | --- | --- | 0.64 | 0.199 | 99.5 | 118.5 | 3.2 | 0.264 |
| 4-1470 | 4-2230 | 0.806 | 248.1 | -23.2 | -1.09 | 1.269 | 50.1 | 0.805 | 2.773 | 92.7 | 178.5 | --- | --- | 0.64 | 0.199 | 96.1 | 117.7 | 3.2 | 0.260 |
| 4-1470 | 4-2250 | 0.797 | 248.6 | -23.4 | -1.11 | 1.269 | 50.6 | 0.802 | 2.772 | 91.7 | 179.3 | --- | --- | 0.64 | 0.200 | 92.9 | 117.0 | 3.2 | 0.258 |
| 4-1470 | 4-2270 | 0.788 | 249.2 | -23.5 | -1.13 | 1.269 | 51.2 | 0.798 | 2.774 | 90.6 | 180.0 | --- | 4.989 | 0.64 | 0.201 | 89.8 | 116.3 | 3.3 | 0.256 |
| 4-1470 | 4-2290 | 0.779 | 249.7 | -23.6 | -1.15 | 1.270 | 51.7 | 0.795 | 2.778 | 89.5 | 180.8 | --- | 4.987 | 0.64 | 0.203 | 87.0 | 115.7 | 3.3 | 0.254 |
| 4-1470 | 4-2310 | 0.770 | 250.3 | -23.8 | -1.17 | 1.270 | 52.2 | 0.792 | 2.783 | 88.4 | 181.5 | --- | 4.988 | 0.64 | 0.205 | 84.3 | 115.2 | 3.3 | 0.253 |
| 4-1470 | 4-2330 | 0.761 | 251.0 | -23.9 | -1.19 | 1.270 | 52.7 | 0.789 | 2.790 | 87.3 | 182.2 | --- | 4.992 | 0.64 | 0.208 | 81.8 | 114.8 | 3.3 | 0.252 |
| 4-1470 | 4-2350 | 0.752 | 251.6 | -24.0 | -1.21 | 1.271 | 53.3 | 0.786 | 2.797 | 86.2 | 182.9 | --- | 4.998 | 0.64 | 0.211 | 79.6 | 114.5 | 3.3 | 0.252 |
| 4-1470 | 4-2370 | 0.743 | 252.2 | -24.2 | -1.23 | 1.271 | 53.8 | 0.784 | 2.806 | 85.0 | 183.5 | --- | 5.006 | 0.65 | 0.214 | 77.5 | 114.3 | 3.3 | 0.252 |
| 4-1470 | 4-2390 | 0.734 | 252.9 | -24.3 | -1.25 | 1.272 | 54.4 | 0.781 | 2.816 | 83.9 | 184.2 | --- | 5.016 | 0.65 | 0.218 | 75.5 | 114.1 | 3.3 | 0.252 |
| 4-1470 | 4-2410 | 0.725 | 253.6 | -24.4 | -1.28 | 1.272 | 54.9 | 0.778 | 2.827 | 82.7 | 184.8 | --- | 5.028 | 0.65 | 0.221 | 73.7 | 114.0 | 3.4 | 0.252 |
| 4-1470 | 4-2430 | 0.716 | 254.3 | -24.6 | -1.30 | 1.273 | 55.5 | 0.776 | 2.839 | 81.5 | 185.5 | --- | 5.041 | 0.66 | 0.225 | 72.1 | 114.1 | 3.4 | 0.253 |
| 4-1470 | 4-2450 | 0.707 | 255.0 | -24.7 | -1.32 | 1.273 | 56.0 | 0.773 | 2.851 | 80.3 | 186.1 | --- | 5.056 | 0.66 | 0.229 | 70.5 | 114.1 | 3.4 | 0.253 |
| 4-1470 | 4-2470 | 0.698 | 255.8 | -24.9 | -1.34 | 1.274 | 56.6 | 0.771 | 2.864 | 79.1 | 186.7 | --- | 5.072 | 0.67 | 0.233 | 69.1 | 114.3 | 3.4 | 0.254 |
| 4-1470 | 4-2490 | 0.689 | 256.5 | -25.0 | -1.36 | 1.275 | 57.1 | 0.768 | 2.878 | 77.8 | 187.2 | --- | 5.089 | 0.68 | 0.237 | 67.8 | 114.5 | 3.4 | 0.255 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1470 | 4-2510 | 0.680 | 257.3 | -25.1 | -1.39 | 1.275 | 57.7 | 0.766 | 2.892 | 76.6 | 187.8 | --- | 5.107 | 0.69 | 0.240 | 66.6 | 114.8 | 3.4 | 0.256 |
| 4-1470 | 4-2530 | 0.671 | 258.1 | -25.3 | -1.41 | 1.276 | 58.3 | 0.764 | 2.906 | 75.3 | 188.4 | --- | 5.126 | 0.69 | 0.244 | 65.5 | 115.2 | 3.4 | 0.257 |
| 4-1470 | 4-2550 | 0.661 | 258.9 | -25.4 | -1.44 | 1.277 | 58.8 | 0.762 | 2.921 | 74.0 | 188.9 | --- | 5.145 | 0.70 | 0.248 | 64.4 | 115.6 | 3.4 | 0.258 |
| 4-1470 | 4-2570 | 0.652 | 259.7 | -25.6 | -1.46 | 1.277 | 59.4 | 0.759 | 2.936 | 72.7 | 189.5 | --- | 5.166 | 0.72 | 0.252 | 63.5 | 116.1 | 3.4 | 0.259 |
| 4-1470 | 4-2590 | 0.643 | 260.6 | -25.7 | -1.49 | 1.278 | 60.0 | 0.757 | 2.952 | 71.4 | 190.0 | --- | 5.187 | 0.73 | 0.255 | 62.6 | 116.6 | 3.4 | 0.261 |
| 4-1470 | 4-2610 | 0.634 | 261.5 | -25.9 | -1.51 | 1.279 | 60.5 | 0.755 | 2.968 | 70.1 | 190.5 | --- | 5.209 | 0.74 | 0.259 | 61.8 | 117.2 | 3.4 | 0.262 |
| 4-1470 | 4-2630 | 0.625 | 262.4 | -26.0 | -1.54 | 1.279 | 61.1 | 0.753 | 2.984 | 68.8 | 191.1 | --- | 5.232 | 0.76 | 0.262 | 61.0 | 117.9 | 3.4 | 0.263 |
| 4-1470 | 4-2650 | 0.616 | 263.3 | -26.2 | -1.57 | 1.280 | 61.7 | 0.751 | 3.000 | 67.5 | 191.6 | --- | 5.255 | 0.77 | 0.266 | 60.3 | 118.5 | 3.4 | 0.265 |
| 4-1470 | 4-2670 | 0.607 | 264.2 | -26.3 | -1.60 | 1.281 | 62.3 | 0.750 | 3.017 | 66.1 | 192.1 | --- | 5.278 | 0.79 | 0.269 | 59.6 | 119.3 | 3.4 | 0.266 |
| 4-1470 | 4-2690 | 0.597 | 265.2 | -26.5 | -1.63 | 1.282 | 62.8 | 0.748 | 3.034 | 64.8 | 192.5 | --- | 5.302 | 0.81 | 0.273 | 59.0 | 120.1 | 3.4 | 0.268 |
| 4-1470 | 4-2710 | 0.588 | 266.2 | -26.6 | -1.67 | 1.282 | 63.4 | 0.746 | 3.051 | 63.4 | 193.0 | --- | 5.327 | 0.83 | 0.276 | 58.4 | 120.9 | 3.4 | 0.269 |
| 4-1470 | 4-2730 | 0.579 | 267.2 | -26.8 | -1.70 | 1.283 | 64.0 | 0.744 | 3.068 | 62.1 | 193.5 | --- | 5.351 | 0.85 | 0.279 | 57.8 | 121.7 | 3.4 | 0.270 |
| 4-1470 | 4-2750 | 0.570 | 268.3 | -27.0 | -1.74 | 1.284 | 64.6 | 0.743 | 3.085 | 60.7 | 193.9 | --- | 5.377 | 0.88 | 0.282 | 57.3 | 122.6 | 3.3 | 0.272 |
| 4-1470 | 4-2770 | 0.561 | 269.4 | -27.1 | -1.78 | 1.284 | 65.2 | 0.741 | 3.102 | 59.3 | 194.4 | --- | 5.402 | 0.90 | 0.285 | 56.8 | 123.6 | 3.3 | 0.273 |
| 4-1470 | 4-2790 | 0.552 | 270.5 | -27.3 | -1.82 | 1.285 | 65.8 | 0.740 | 3.120 | 57.9 | 194.8 | --- | 5.428 | 0.94 | 0.288 | 56.4 | 124.5 | 3.3 | 0.275 |
| 4-1470 | 4-2810 | 0.543 | 271.6 | -27.5 | -1.87 | 1.286 | 66.4 | 0.738 | 3.138 | 56.5 | 195.3 | --- | 5.454 | 0.97 | 0.291 | 55.9 | 125.5 | 3.3 | 0.276 |
| 4-1470 | 4-2830 | 0.534 | 272.8 | -27.7 | -1.92 | 1.287 | 66.9 | 0.737 | 3.155 | 55.1 | 195.7 | --- | 5.481 | 1.01 | 0.294 | 55.5 | 126.5 | 3.3 | 0.278 |
| 4-1470 | 4-2850 | 0.526 | 274.0 | -27.9 | -1.97 | 1.287 | 67.5 | 0.736 | 3.173 | 53.7 | 196.1 | --- | 5.508 | 1.05 | 0.296 | 55.1 | 127.6 | 3.3 | 0.279 |
| 4-1470 | 4-2870 | 0.517 | 275.3 | -28.0 | -2.02 | 1.288 | 68.1 | 0.735 | 3.191 | 52.3 | 196.5 | --- | 5.535 | 1.09 | 0.299 | 54.8 | 128.6 | 3.3 | 0.280 |
| 4-1470 | 4-2890 | 0.508 | 276.5 | -28.2 | -2.09 | 1.289 | 68.7 | 0.733 | 3.209 | 50.9 | 196.9 | --- | 5.562 | 1.14 | 0.301 | 54.4 | 129.7 | 3.4 | 0.282 |
| 4-1470 | 4-2910 | 0.499 | 277.9 | -28.5 | -2.15 | 1.289 | 69.3 | 0.732 | 3.227 | 49.5 | 197.3 | --- | 5.590 | 1.20 | 0.304 | 54.1 | 130.9 | 3.4 | 0.283 |
| 4-1470 | 4-2930 | 0.491 | 279.3 | -28.7 | -2.23 | 1.290 | 69.9 | 0.731 | 3.245 | 48.1 | 197.7 | --- | 5.618 | 1.26 | 0.306 | 53.7 | 132.0 | 3.4 | 0.284 |
| 4-1470 | 4-2950 | 0.483 | 280.7 | -28.9 | -2.31 | 1.291 | 70.5 | 0.730 | 3.263 | 46.6 | 198.1 | --- | 5.646 | 1.34 | 0.309 | 53.4 | 133.2 | 3.4 | 0.286 |
| 4-1470 | 4-2970 | 0.474 | 282.1 | -29.2 | -2.41 | 1.291 | 71.1 | 0.729 | 3.281 | 45.2 | 198.5 | --- | 5.674 | 1.42 | 0.311 | 53.1 | 134.4 | 3.4 | 0.287 |
| 4-1470 | 4-2990 | 0.466 | 283.7 | -29.5 | -2.51 | 1.292 | 71.7 | 0.729 | 3.299 | 43.7 | 198.8 | --- | 5.702 | 1.52 | 0.313 | 52.9 | 135.6 | 3.5 | 0.288 |
| 4-1470 | 4-3010 | 0.458 | 285.2 | -29.8 | -2.64 | 1.293 | 72.3 | 0.728 | 3.317 | 42.3 | 199.2 | --- | 5.731 | 1.63 | 0.315 | 52.6 | 136.8 | 3.5 | 0.290 |
| 4-1470 | 4-3030 | 0.450 | 286.9 | -30.2 | -2.78 | 1.293 | 72.9 | 0.727 | 3.335 | 40.8 | 199.5 | --- | 5.760 | 1.76 | 0.317 | 52.3 | 138.0 | 3.6 | 0.291 |
| 4-1470 | 4-3050 | 0.443 | 288.6 | -30.7 | -2.94 | 1.294 | 73.6 | 0.726 | 3.353 | 39.4 | 199.9 | --- | 5.789 | 1.91 | 0.319 | 52.1 | 139.3 | 3.7 | 0.292 |
| 4-1470 | 4-3070 | 0.435 | 290.4 | -31.2 | -3.14 | 1.294 | 74.2 | 0.726 | 3.371 | 37.9 | 200.2 | --- | 5.818 | 2.10 | 0.321 | 51.8 | 140.6 | 3.8 | 0.294 |
| 4-1480 | 4-1820 | 1.156 | 247.1 | -22.2 | -0.71 | 1.366 | 33.5 | 0.969 | 9.711 | 115.8 | 156.0 | --- | --- | 0.68 | 0.536 | 163.8 | 135.3 | 2.3 | 0.611 |
| 4-1480 | 4-1840 | 1.133 | 246.9 | -22.2 | -0.74 | 1.349 | 34.1 | 0.954 | 6.634 | 116.0 | 157.9 | --- | --- | 0.66 | 0.490 | 162.2 | 134.7 | 2.4 | 0.570 |
| 4-1480 | 4-1860 | 1.113 | 246.9 | -22.3 | -0.77 | 1.334 | 34.7 | 0.942 | 5.268 | 116.1 | 159.7 | --- | --- | 0.64 | 0.449 | 160.4 | 133.9 | 2.4 | 0.532 |
| 4-1480 | 4-1880 | 1.096 | 246.9 | -22.3 | -0.79 | 1.322 | 35.3 | 0.931 | 4.504 | 116.0 | 161.4 | --- | --- | 0.62 | 0.413 | 158.4 | 133.2 | 2.4 | 0.500 |
| 4-1480 | 4-1900 | 1.079 | 246.9 | -22.3 | -0.82 | 1.312 | 35.8 | 0.921 | 4.022 | 115.8 | 162.9 | --- | --- | 0.60 | 0.380 | 156.2 | 132.3 | 2.5 | 0.470 |
| 4-1480 | 4-1920 | 1.064 | 247.1 | -22.4 | -0.84 | 1.303 | 36.4 | 0.913 | 3.695 | 115.5 | 164.3 | --- | --- | 0.59 | 0.350 | 153.8 | 131.5 | 2.5 | 0.444 |
| 4-1480 | 4-1940 | 1.050 | 247.2 | -22.4 | -0.87 | 1.296 | 37.0 | 0.905 | 3.461 | 115.1 | 165.6 | --- | --- | 0.57 | 0.324 | 151.2 | 130.5 | 2.5 | 0.421 |
| 4-1480 | 4-1960 | 1.037 | 247.5 | -22.5 | -0.89 | 1.291 | 37.5 | 0.898 | 3.288 | 114.5 | 166.9 | --- | --- | 0.56 | 0.300 | 148.4 | 129.5 | 2.6 | 0.401 |
| 4-1480 | 4-1980 | 1.024 | 247.7 | -22.6 | -0.91 | 1.286 | 38.1 | 0.892 | 3.156 | 114.0 | 168.0 | --- | --- | 0.54 | 0.279 | 145.3 | 128.5 | 2.6 | 0.382 |
| 4-1480 | 4-2000 | 1.012 | 248.0 | -22.7 | -0.93 | 1.282 | 38.6 | 0.886 | 3.055 | 113.3 | 169.1 | --- | --- | 0.53 | 0.261 | 142.0 | 127.4 | 2.7 | 0.366 |
| 4-1480 | 4-2020 | 1.001 | 248.4 | -22.7 | -0.95 | 1.278 | 39.2 | 0.880 | 2.976 | 112.6 | 170.2 | --- | --- | 0.52 | 0.245 | 138.4 | 126.4 | 2.7 | 0.352 |
| 4-1480 | 4-2040 | 0.989 | 248.7 | -22.8 | -0.97 | 1.275 | 39.7 | 0.875 | 2.914 | 111.8 | 171.2 | --- | --- | 0.51 | 0.231 | 134.7 | 125.3 | 2.8 | 0.339 |
| 4-1480 | 4-2060 | 0.978 | 249.1 | -22.9 | -0.99 | 1.273 | 40.3 | 0.870 | 2.866 | 111.0 | 172.1 | --- | --- | 0.50 | 0.219 | 130.7 | 124.2 | 2.8 | 0.327 |
| 4-1480 | 4-2080 | 0.968 | 249.5 | -23.0 | -1.00 | 1.271 | 40.8 | 0.865 | 2.827 | 110.2 | 173.0 | --- | --- | 0.50 | 0.208 | 126.5 | 123.1 | 2.8 | 0.318 |
| 4-1480 | 4-2100 | 0.957 | 249.9 | -23.1 | -1.02 | 1.270 | 41.4 | 0.860 | 2.797 | 109.3 | 173.9 | --- | --- | 0.49 | 0.200 | 122.2 | 122.0 | 2.9 | 0.309 |
| 4-1480 | 4-2120 | 0.947 | 250.4 | -23.2 | -1.04 | 1.268 | 42.0 | 0.856 | 2.774 | 108.4 | 174.8 | --- | --- | 0.48 | 0.194 | 117.8 | 121.0 | 2.9 | 0.301 |
| 4-1480 | 4-2140 | 0.937 | 250.9 | -23.3 | -1.05 | 1.268 | 42.5 | 0.852 | 2.756 | 107.4 | 175.6 | --- | --- | 0.47 | 0.189 | 113.4 | 120.0 | 2.9 | 0.295 |
| 4-1480 | 4-2160 | 0.927 | 251.4 | -23.3 | -1.07 | 1.267 | 43.1 | 0.848 | 2.744 | 106.4 | 176.4 | --- | --- | 0.47 | 0.185 | 109.1 | 119.1 | 3.0 | 0.289 |
| 4-1480 | 4-2180 | 0.917 | 251.9 | -23.4 | -1.08 | 1.266 | 43.7 | 0.844 | 2.735 | 105.4 | 177.2 | --- | --- | 0.46 | 0.183 | 104.8 | 118.2 | 3.0 | 0.284 |
| 4-1480 | 4-2200 | 0.907 | 252.4 | -23.5 | -1.10 | 1.266 | 44.2 | 0.840 | 2.729 | 104.3 | 177.9 | --- | --- | 0.46 | 0.182 | 100.8 | 117.3 | 3.0 | 0.280 |
| 4-1480 | 4-2220 | 0.897 | 252.9 | -23.6 | -1.11 | 1.266 | 44.8 | 0.836 | 2.727 | 103.3 | 178.6 | --- | --- | 0.46 | 0.182 | 96.9 | 116.6 | 3.0 | 0.277 |
| 4-1480 | 4-2240 | 0.887 | 253.5 | -23.7 | -1.13 | 1.266 | 45.4 | 0.832 | 2.727 | 102.2 | 179.4 | --- | --- | 0.45 | 0.183 | 93.2 | 115.9 | 3.1 | 0.274 |
| 4-1480 | 4-2260 | 0.878 | 254.0 | -23.8 | -1.14 | 1.266 | 45.9 | 0.829 | 2.729 | 101.1 | 180.0 | --- | 4.991 | 0.45 | 0.185 | 89.8 | 115.3 | 3.1 | 0.272 |
| 4-1480 | 4-2280 | 0.868 | 254.6 | -23.9 | -1.16 | 1.266 | 46.5 | 0.825 | 2.733 | 99.9 | 180.7 | --- | 4.989 | 0.45 | 0.187 | 86.6 | 114.8 | 3.1 | 0.270 |
| 4-1480 | 4-2300 | 0.858 | 255.2 | -24.0 | -1.17 | 1.267 | 47.1 | 0.822 | 2.739 | 98.8 | 181.4 | --- | 4.990 | 0.44 | 0.190 | 83.6 | 114.4 | 3.1 | 0.268 |
| 4-1480 | 4-2320 | 0.848 | 255.8 | -24.1 | -1.19 | 1.267 | 47.7 | 0.819 | 2.746 | 97.6 | 182.0 | --- | 4.994 | 0.44 | 0.193 | 80.9 | 114.0 | 3.1 | 0.267 |
| 4-1480 | 4-2340 | 0.839 | 256.4 | -24.2 | -1.20 | 1.267 | 48.3 | 0.816 | 2.754 | 96.5 | 182.7 | --- | 5.000 | 0.44 | 0.197 | 78.4 | 113.7 | 3.1 | 0.267 |
| 4-1480 | 4-2360 | 0.829 | 257.1 | -24.3 | -1.21 | 1.268 | 48.8 | 0.812 | 2.763 | 95.3 | 183.3 | --- | 5.008 | 0.44 | 0.201 | 76.1 | 113.6 | 3.1 | 0.266 |
| 4-1480 | 4-2380 | 0.819 | 257.7 | -24.4 | -1.23 | 1.268 | 49.4 | 0.809 | 2.774 | 94.1 | 183.9 | --- | 5.019 | 0.44 | 0.205 | 74.0 | 113.4 | 3.1 | 0.266 |
| 4-1480 | 4-2400 | 0.810 | 258.4 | -24.5 | -1.24 | 1.269 | 50.0 | 0.806 | 2.785 | 92.8 | 184.5 | --- | 5.031 | 0.44 | 0.209 | 72.1 | 113.4 | 3.1 | 0.266 |
| 4-1480 | 4-2420 | 0.800 | 259.1 | -24.6 | -1.26 | 1.270 | 50.6 | 0.803 | 2.797 | 91.6 | 185.1 | --- | 5.044 | 0.44 | 0.213 | 70.4 | 113.5 | 3.1 | 0.266 |
| 4-1480 | 4-2440 | 0.790 | 259.7 | -24.7 | -1.27 | 1.270 | 51.2 | 0.800 | 2.810 | 90.4 | 185.7 | --- | 5.059 | 0.44 | 0.217 | 68.8 | 113.6 | 3.1 | 0.267 |
| 4-1480 | 4-2460 | 0.781 | 260.4 | -24.8 | -1.28 | 1.271 | 51.8 | 0.797 | 2.824 | 89.1 | 186.2 | --- | 5.076 | 0.44 | 0.222 | 67.3 | 113.8 | 3.1 | 0.267 |
| 4-1480 | 4-2480 | 0.771 | 261.2 | -24.9 | -1.30 | 1.272 | 52.4 | 0.795 | 2.838 | 87.8 | 186.8 | --- | 5.093 | 0.45 | 0.226 | 66.0 | 114.0 | 3.1 | 0.268 |
| 4-1480 | 4-2500 | 0.761 | 261.9 | -25.0 | -1.31 | 1.272 | 53.0 | 0.792 | 2.852 | 86.6 | 187.3 | --- | 5.111 | 0.45 | 0.230 | 64.7 | 114.3 | 3.1 | 0.268 |
| 4-1480 | 4-2520 | 0.751 | 262.6 | -25.1 | -1.33 | 1.273 | 53.6 | 0.789 | 2.867 | 85.3 | 187.9 | --- | 5.130 | 0.45 | 0.234 | 63.6 | 114.7 | 3.1 | 0.269 |
| 4-1480 | 4-2540 | 0.742 | 263.4 | -25.2 | -1.34 | 1.274 | 54.1 | 0.787 | 2.883 | 84.0 | 188.4 | --- | 5.151 | 0.46 | 0.238 | 62.6 | 115.2 | 3.1 | 0.270 |
| 4-1480 | 4-2560 | 0.732 | 264.2 | -25.3 | -1.36 | 1.275 | 54.7 | 0.784 | 2.899 | 82.7 | 188.9 | --- | 5.171 | 0.46 | 0.243 | 61.6 | 115.7 | 3.1 | 0.271 |
| 4-1480 | 4-2580 | 0.722 | 264.9 | -25.4 | -1.37 | 1.275 | 55.3 | 0.781 | 2.915 | 81.4 | 189.5 | --- | 5.193 | 0.46 | 0.247 | 60.7 | 116.2 | 3.1 | 0.272 |
| 4-1480 | 4-2600 | 0.713 | 265.7 | -25.4 | -1.39 | 1.276 | 55.9 | 0.779 | 2.931 | 80.0 | 190.0 | --- | 5.215 | 0.47 | 0.251 | 59.9 | 116.8 | 3.1 | 0.273 |
| 4-1480 | 4-2620 | 0.703 | 266.6 | -25.5 | -1.40 | 1.277 | 56.5 | 0.777 | 2.948 | 78.7 | 190.5 | --- | 5.238 | 0.47 | 0.254 | 59.2 | 117.5 | 3.1 | 0.274 |
| 4-1480 | 4-2640 | 0.693 | 267.4 | -25.6 | -1.42 | 1.278 | 57.1 | 0.774 | 2.965 | 77.4 | 191.0 | --- | 5.261 | 0.48 | 0.258 | 58.5 | 118.2 | 3.1 | 0.276 |
| 4-1480 | 4-2660 | 0.683 | 268.2 | -25.7 | -1.44 | 1.278 | 57.7 | 0.772 | 2.982 | 76.0 | 191.4 | --- | 5.284 | 0.49 | 0.262 | 57.8 | 118.9 | 3.1 | 0.277 |
| 4-1480 | 4-2680 | 0.674 | 269.1 | -25.8 | -1.46 | 1.279 | 58.3 | 0.770 | 3.000 | 74.6 | 191.9 | --- | 5.309 | 0.50 | 0.266 | 57.2 | 119.7 | 3.1 | 0.278 |
| 4-1480 | 4-2700 | 0.664 | 270.0 | -25.9 | -1.47 | 1.280 | 58.9 | 0.768 | 3.017 | 73.3 | 192.4 | --- | 5.333 | 0.50 | 0.269 | 56.6 | 120.5 | 3.0 | 0.279 |
| 4-1480 | 4-2720 | 0.654 | 270.9 | -26.0 | -1.49 | 1.281 | 59.5 | 0.765 | 3.035 | 71.9 | 192.9 | --- | 5.358 | 0.51 | 0.273 | 56.1 | 121.4 | 3.0 | 0.280 |
| 4-1480 | 4-2740 | 0.645 | 271.8 | -26.0 | -1.51 | 1.281 | 60.2 | 0.763 | 3.053 | 70.5 | 193.3 | --- | 5.383 | 0.52 | 0.276 | 55.6 | 122.3 | 3.0 | 0.281 |
| 4-1480 | 4-2760 | 0.635 | 272.8 | -26.1 | -1.53 | 1.282 | 60.8 | 0.761 | 3.071 | 69.2 | 193.8 | --- | 5.409 | 0.54 | 0.279 | 55.2 | 123.2 | 3.0 | 0.283 |
| 4-1480 | 4-2780 | 0.625 | 273.7 | -26.2 | -1.55 | 1.283 | 61.4 | 0.759 | 3.089 | 67.8 | 194.2 | --- | 5.435 | 0.55 | 0.282 | 54.8 | 124.2 | 3.0 | 0.284 |
| 4-1480 | 4-2800 | 0.616 | 274.7 | -26.3 | -1.58 | 1.284 | 62.0 | 0.758 | 3.107 | 66.4 | 194.6 | --- | 5.461 | 0.56 | 0.285 | 54.4 | 125.2 | 3.0 | 0.285 |
| 4-1480 | 4-2820 | 0.606 | 275.7 | -26.4 | -1.60 | 1.284 | 62.6 | 0.756 | 3.125 | 65.0 | 195.1 | --- | 5.487 | 0.58 | 0.288 | 54.0 | 126.2 | 2.9 | 0.286 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1480 | 4-2840 | 0.597 | 276.8 | -26.4 | -1.62 | 1.285 | 63.2 | 0.754 | 3.144 | 63.6 | 195.5 | --- | 5.514 | 0.59 | 0.291 | 53.6 | 127.2 | 2.9 | 0.287 |
| 4-1480 | 4-2860 | 0.587 | 277.9 | -26.5 | -1.65 | 1.286 | 63.8 | 0.752 | 3.162 | 62.2 | 195.9 | --- | 5.541 | 0.61 | 0.294 | 53.3 | 128.3 | 2.9 | 0.289 |
| 4-1480 | 4-2880 | 0.578 | 278.9 | -26.6 | -1.68 | 1.287 | 64.4 | 0.751 | 3.181 | 60.7 | 196.3 | --- | 5.568 | 0.63 | 0.297 | 53.0 | 129.4 | 2.9 | 0.290 |
| 4-1480 | 4-2900 | 0.568 | 280.1 | -26.6 | -1.71 | 1.287 | 65.0 | 0.749 | 3.199 | 59.3 | 196.7 | --- | 5.596 | 0.65 | 0.300 | 52.7 | 130.5 | 2.9 | 0.291 |
| 4-1480 | 4-2920 | 0.559 | 281.2 | -26.7 | -1.74 | 1.288 | 65.6 | 0.748 | 3.218 | 57.9 | 197.1 | --- | 5.623 | 0.67 | 0.302 | 52.4 | 131.7 | 2.8 | 0.292 |
| 4-1480 | 4-2940 | 0.550 | 282.4 | -26.8 | -1.77 | 1.289 | 66.2 | 0.746 | 3.236 | 56.5 | 197.5 | --- | 5.651 | 0.70 | 0.305 | 52.2 | 132.8 | 2.8 | 0.293 |
| 4-1480 | 4-2960 | 0.541 | 283.6 | -26.8 | -1.81 | 1.289 | 66.8 | 0.745 | 3.255 | 55.0 | 197.8 | --- | 5.679 | 0.73 | 0.307 | 51.9 | 134.0 | 2.8 | 0.294 |
| 4-1480 | 4-2980 | 0.531 | 284.8 | -26.9 | -1.85 | 1.290 | 67.5 | 0.744 | 3.273 | 53.6 | 198.2 | --- | 5.707 | 0.76 | 0.309 | 51.7 | 135.2 | 2.8 | 0.295 |
| 4-1480 | 4-3000 | 0.522 | 286.1 | -27.0 | -1.89 | 1.291 | 68.1 | 0.742 | 3.292 | 52.1 | 198.6 | --- | 5.736 | 0.80 | 0.312 | 51.4 | 136.4 | 2.8 | 0.296 |
| 4-1480 | 4-3020 | 0.513 | 287.4 | -27.1 | -1.94 | 1.291 | 68.7 | 0.741 | 3.311 | 50.7 | 198.9 | --- | 5.764 | 0.84 | 0.314 | 51.2 | 137.6 | 2.8 | 0.297 |
| 4-1480 | 4-3040 | 0.504 | 288.8 | -27.1 | -1.99 | 1.292 | 69.3 | 0.740 | 3.329 | 49.2 | 199.3 | --- | 5.793 | 0.88 | 0.316 | 51.0 | 138.9 | 2.7 | 0.298 |
| 4-1480 | 4-3060 | 0.496 | 290.2 | -27.2 | -2.05 | 1.293 | 69.9 | 0.739 | 3.348 | 47.8 | 199.6 | --- | 5.822 | 0.93 | 0.318 | 50.8 | 140.1 | 2.7 | 0.299 |
| 4-1480 | 4-3080 | 0.487 | 291.6 | -27.3 | -2.12 | 1.293 | 70.5 | 0.738 | 3.367 | 46.3 | 199.9 | --- | 5.851 | 0.99 | 0.320 | 50.6 | 141.4 | 2.7 | 0.301 |
| 4-1490 | 4-1830 | 1.270 | 250.9 | -22.7 | -0.91 | 1.357 | 26.4 | 0.976 | 7.942 | 130.1 | 161.6 | --- | --- | 0.44 | 0.515 | 166.5 | 133.0 | 2.3 | 0.614 |
| 4-1490 | 4-1850 | 1.245 | 251.0 | -22.8 | -0.93 | 1.340 | 27.2 | 0.966 | 5.825 | 129.8 | 163.0 | --- | --- | 0.42 | 0.469 | 164.9 | 132.3 | 2.4 | 0.573 |
| 4-1490 | 4-1870 | 1.223 | 251.1 | -22.8 | -0.95 | 1.326 | 27.9 | 0.957 | 4.784 | 129.4 | 164.3 | --- | --- | 0.40 | 0.428 | 163.2 | 131.5 | 2.4 | 0.537 |
| 4-1490 | 4-1890 | 1.203 | 251.3 | -22.8 | -0.98 | 1.315 | 28.7 | 0.949 | 4.172 | 128.8 | 165.5 | --- | --- | 0.39 | 0.391 | 161.2 | 130.7 | 2.4 | 0.505 |
| 4-1490 | 4-1910 | 1.184 | 251.5 | -22.9 | -0.99 | 1.305 | 29.4 | 0.942 | 3.774 | 128.2 | 166.6 | --- | --- | 0.37 | 0.358 | 159.1 | 129.8 | 2.5 | 0.477 |
| 4-1490 | 4-1930 | 1.167 | 251.8 | -23.0 | -1.01 | 1.297 | 30.1 | 0.935 | 3.499 | 127.6 | 167.7 | --- | --- | 0.36 | 0.328 | 156.7 | 128.9 | 2.5 | 0.452 |
| 4-1490 | 4-1950 | 1.151 | 252.1 | -23.0 | -1.03 | 1.290 | 30.8 | 0.929 | 3.300 | 126.8 | 168.7 | --- | --- | 0.35 | 0.302 | 154.0 | 127.9 | 2.5 | 0.429 |
| 4-1490 | 4-1970 | 1.136 | 252.4 | -23.1 | -1.04 | 1.285 | 31.5 | 0.923 | 3.151 | 126.0 | 169.7 | --- | --- | 0.33 | 0.278 | 151.1 | 126.9 | 2.6 | 0.410 |
| 4-1490 | 4-1990 | 1.122 | 252.8 | -23.1 | -1.06 | 1.280 | 32.1 | 0.918 | 3.038 | 125.2 | 170.6 | --- | --- | 0.32 | 0.257 | 147.8 | 125.8 | 2.6 | 0.392 |
| 4-1490 | 4-2010 | 1.109 | 253.2 | -23.2 | -1.07 | 1.276 | 32.8 | 0.912 | 2.951 | 124.3 | 171.4 | --- | --- | 0.31 | 0.238 | 144.3 | 124.8 | 2.6 | 0.376 |
| 4-1490 | 4-2030 | 1.096 | 253.6 | -23.3 | -1.08 | 1.273 | 33.5 | 0.907 | 2.883 | 123.4 | 172.3 | --- | --- | 0.31 | 0.222 | 140.4 | 123.7 | 2.7 | 0.363 |
| 4-1490 | 4-2050 | 1.083 | 254.0 | -23.4 | -1.10 | 1.271 | 34.1 | 0.903 | 2.830 | 122.4 | 173.1 | --- | --- | 0.30 | 0.208 | 136.3 | 122.7 | 2.7 | 0.351 |
| 4-1490 | 4-2070 | 1.071 | 254.5 | -23.4 | -1.11 | 1.269 | 34.8 | 0.898 | 2.789 | 121.4 | 173.9 | --- | --- | 0.29 | 0.196 | 131.9 | 121.7 | 2.7 | 0.340 |
| 4-1490 | 4-2090 | 1.059 | 255.0 | -23.5 | -1.12 | 1.267 | 35.4 | 0.893 | 2.757 | 120.4 | 174.6 | --- | --- | 0.28 | 0.186 | 127.2 | 120.6 | 2.8 | 0.330 |
| 4-1490 | 4-2110 | 1.047 | 255.5 | -23.6 | -1.13 | 1.266 | 36.1 | 0.889 | 2.732 | 119.4 | 175.3 | --- | --- | 0.28 | 0.178 | 122.3 | 119.7 | 2.8 | 0.322 |
| 4-1490 | 4-2130 | 1.036 | 256.0 | -23.7 | -1.14 | 1.265 | 36.7 | 0.885 | 2.713 | 118.3 | 176.1 | --- | --- | 0.27 | 0.172 | 117.4 | 118.7 | 2.8 | 0.315 |
| 4-1490 | 4-2150 | 1.025 | 256.5 | -23.7 | -1.15 | 1.264 | 37.4 | 0.880 | 2.700 | 117.2 | 176.7 | --- | --- | 0.27 | 0.168 | 112.4 | 117.9 | 2.8 | 0.309 |
| 4-1490 | 4-2170 | 1.013 | 257.0 | -23.8 | -1.16 | 1.263 | 38.0 | 0.876 | 2.690 | 116.1 | 177.4 | --- | --- | 0.26 | 0.165 | 107.5 | 117.0 | 2.9 | 0.304 |
| 4-1490 | 4-2190 | 1.003 | 257.6 | -23.9 | -1.17 | 1.263 | 38.6 | 0.872 | 2.684 | 115.0 | 178.1 | --- | --- | 0.26 | 0.164 | 102.8 | 116.3 | 2.9 | 0.299 |
| 4-1490 | 4-2210 | 0.992 | 258.1 | -23.9 | -1.18 | 1.263 | 39.3 | 0.866 | 2.682 | 113.8 | 178.7 | --- | --- | 0.25 | 0.164 | 98.2 | 115.6 | 2.9 | 0.295 |
| 4-1490 | 4-2230 | 0.981 | 258.7 | -24.0 | -1.19 | 1.263 | 39.9 | 0.864 | 2.681 | 112.7 | 179.4 | --- | --- | 0.25 | 0.165 | 93.9 | 115.0 | 2.9 | 0.292 |
| 4-1490 | 4-2250 | 0.970 | 259.3 | -24.1 | -1.19 | 1.263 | 40.5 | 0.861 | 2.684 | 111.5 | 180.0 | --- | 4.993 | 0.25 | 0.167 | 90.0 | 114.4 | 2.9 | 0.289 |
| 4-1490 | 4-2270 | 0.960 | 259.8 | -24.2 | -1.20 | 1.263 | 41.2 | 0.857 | 2.688 | 110.3 | 180.6 | --- | 4.991 | 0.25 | 0.170 | 86.3 | 114.0 | 2.9 | 0.287 |
| 4-1490 | 4-2290 | 0.949 | 260.4 | -24.2 | -1.21 | 1.264 | 41.8 | 0.853 | 2.694 | 109.1 | 181.2 | --- | 4.992 | 0.24 | 0.173 | 82.9 | 113.6 | 3.0 | 0.285 |
| 4-1490 | 4-2310 | 0.939 | 261.0 | -24.3 | -1.22 | 1.264 | 42.4 | 0.850 | 2.701 | 107.9 | 181.8 | --- | 4.996 | 0.24 | 0.177 | 79.8 | 113.3 | 3.0 | 0.284 |
| 4-1490 | 4-2330 | 0.928 | 261.7 | -24.4 | -1.23 | 1.264 | 43.1 | 0.846 | 2.710 | 106.7 | 182.4 | --- | 5.002 | 0.24 | 0.181 | 77.1 | 113.1 | 3.0 | 0.283 |
| 4-1490 | 4-2350 | 0.918 | 262.3 | -24.4 | -1.23 | 1.265 | 43.7 | 0.843 | 2.719 | 105.4 | 183.0 | --- | 5.011 | 0.24 | 0.185 | 74.5 | 112.9 | 3.0 | 0.282 |
| 4-1490 | 4-2370 | 0.908 | 262.9 | -24.5 | -1.24 | 1.266 | 44.3 | 0.839 | 2.730 | 104.2 | 183.5 | --- | 5.021 | 0.23 | 0.190 | 72.3 | 112.9 | 3.0 | 0.282 |
| 4-1490 | 4-2390 | 0.897 | 263.6 | -24.6 | -1.25 | 1.266 | 45.0 | 0.836 | 2.742 | 102.9 | 184.1 | --- | 5.034 | 0.23 | 0.194 | 70.2 | 112.9 | 3.0 | 0.282 |
| 4-1490 | 4-2410 | 0.887 | 264.2 | -24.6 | -1.26 | 1.267 | 45.6 | 0.832 | 2.754 | 101.6 | 184.7 | --- | 5.047 | 0.23 | 0.199 | 68.3 | 113.0 | 3.0 | 0.281 |
| 4-1490 | 4-2430 | 0.877 | 264.9 | -24.7 | -1.26 | 1.268 | 46.2 | 0.829 | 2.768 | 100.4 | 185.2 | --- | 5.063 | 0.23 | 0.204 | 66.6 | 113.1 | 3.0 | 0.282 |
| 4-1490 | 4-2450 | 0.866 | 265.6 | -24.7 | -1.27 | 1.268 | 46.8 | 0.826 | 2.782 | 99.1 | 185.7 | --- | 5.079 | 0.23 | 0.209 | 65.1 | 113.3 | 3.0 | 0.282 |
| 4-1490 | 4-2470 | 0.856 | 266.3 | -24.8 | -1.28 | 1.269 | 47.5 | 0.823 | 2.796 | 97.8 | 186.3 | --- | 5.097 | 0.23 | 0.214 | 63.7 | 113.6 | 3.0 | 0.282 |
| 4-1490 | 4-2490 | 0.846 | 266.9 | -24.9 | -1.29 | 1.270 | 48.1 | 0.820 | 2.811 | 96.5 | 186.8 | --- | 5.116 | 0.23 | 0.219 | 62.5 | 114.0 | 3.0 | 0.283 |
| 4-1490 | 4-2510 | 0.835 | 267.7 | -24.9 | -1.29 | 1.271 | 48.7 | 0.817 | 2.827 | 95.2 | 187.3 | --- | 5.135 | 0.23 | 0.223 | 61.3 | 114.4 | 3.0 | 0.283 |
| 4-1490 | 4-2530 | 0.825 | 268.4 | -25.0 | -1.30 | 1.271 | 49.4 | 0.814 | 2.843 | 93.8 | 187.8 | --- | 5.156 | 0.23 | 0.228 | 60.3 | 114.8 | 2.9 | 0.284 |
| 4-1490 | 4-2550 | 0.815 | 269.1 | -25.0 | -1.31 | 1.272 | 50.0 | 0.811 | 2.859 | 92.5 | 188.3 | --- | 5.177 | 0.23 | 0.232 | 59.3 | 115.4 | 2.9 | 0.285 |
| 4-1490 | 4-2570 | 0.805 | 269.8 | -25.1 | -1.32 | 1.273 | 50.6 | 0.808 | 2.876 | 91.2 | 188.8 | --- | 5.198 | 0.23 | 0.237 | 58.4 | 115.9 | 2.9 | 0.285 |
| 4-1490 | 4-2590 | 0.794 | 270.6 | -25.1 | -1.32 | 1.274 | 51.2 | 0.805 | 2.893 | 89.8 | 189.3 | --- | 5.221 | 0.23 | 0.241 | 57.7 | 116.5 | 2.9 | 0.286 |
| 4-1490 | 4-2610 | 0.784 | 271.3 | -25.1 | -1.33 | 1.274 | 51.9 | 0.802 | 2.910 | 88.5 | 189.8 | --- | 5.244 | 0.24 | 0.246 | 56.9 | 117.2 | 2.9 | 0.287 |
| 4-1490 | 4-2630 | 0.774 | 272.1 | -25.2 | -1.34 | 1.275 | 52.5 | 0.799 | 2.927 | 87.1 | 190.3 | --- | 5.267 | 0.24 | 0.250 | 56.3 | 117.9 | 2.9 | 0.288 |
| 4-1490 | 4-2650 | 0.764 | 272.9 | -25.2 | -1.35 | 1.276 | 53.1 | 0.797 | 2.945 | 85.8 | 190.7 | --- | 5.291 | 0.24 | 0.254 | 55.6 | 118.7 | 2.9 | 0.289 |
| 4-1490 | 4-2670 | 0.753 | 273.7 | -25.3 | -1.35 | 1.277 | 53.7 | 0.794 | 2.963 | 84.4 | 191.2 | --- | 5.316 | 0.24 | 0.258 | 55.1 | 119.5 | 2.8 | 0.290 |
| 4-1490 | 4-2690 | 0.743 | 274.5 | -25.3 | -1.36 | 1.278 | 54.4 | 0.791 | 2.981 | 83.0 | 191.7 | --- | 5.340 | 0.24 | 0.262 | 54.5 | 120.3 | 2.8 | 0.291 |
| 4-1490 | 4-2710 | 0.733 | 275.3 | -25.3 | -1.37 | 1.278 | 55.0 | 0.789 | 2.999 | 81.6 | 192.1 | --- | 5.365 | 0.25 | 0.265 | 54.1 | 121.2 | 2.8 | 0.292 |
| 4-1490 | 4-2730 | 0.723 | 276.2 | -25.3 | -1.38 | 1.279 | 55.6 | 0.786 | 3.018 | 80.3 | 192.6 | --- | 5.391 | 0.25 | 0.269 | 53.6 | 122.1 | 2.8 | 0.293 |
| 4-1490 | 4-2750 | 0.713 | 277.0 | -25.4 | -1.39 | 1.280 | 56.2 | 0.784 | 3.036 | 78.9 | 193.0 | --- | 5.417 | 0.25 | 0.273 | 53.2 | 123.0 | 2.8 | 0.294 |
| 4-1490 | 4-2770 | 0.702 | 277.9 | -25.4 | -1.40 | 1.281 | 56.9 | 0.782 | 3.055 | 77.5 | 193.5 | --- | 5.443 | 0.26 | 0.276 | 52.8 | 123.9 | 2.7 | 0.295 |
| 4-1490 | 4-2790 | 0.692 | 278.8 | -25.4 | -1.41 | 1.282 | 57.5 | 0.779 | 3.074 | 76.1 | 193.9 | --- | 5.469 | 0.26 | 0.279 | 52.5 | 124.9 | 2.7 | 0.296 |
| 4-1490 | 4-2810 | 0.682 | 279.7 | -25.4 | -1.42 | 1.282 | 58.1 | 0.777 | 3.092 | 74.7 | 194.3 | --- | 5.496 | 0.27 | 0.283 | 52.1 | 126.0 | 2.7 | 0.297 |
| 4-1490 | 4-2830 | 0.672 | 280.6 | -25.4 | -1.43 | 1.283 | 58.8 | 0.775 | 3.111 | 73.3 | 194.7 | --- | 5.522 | 0.27 | 0.286 | 51.8 | 127.0 | 2.7 | 0.297 |
| 4-1490 | 4-2850 | 0.662 | 281.5 | -25.4 | -1.44 | 1.284 | 59.4 | 0.773 | 3.130 | 71.9 | 195.1 | --- | 5.549 | 0.28 | 0.289 | 51.5 | 128.1 | 2.6 | 0.298 |
| 4-1490 | 4-2870 | 0.652 | 282.5 | -25.4 | -1.45 | 1.285 | 60.0 | 0.771 | 3.149 | 70.4 | 195.5 | --- | 5.576 | 0.28 | 0.292 | 51.3 | 129.2 | 2.6 | 0.299 |
| 4-1490 | 4-2890 | 0.642 | 283.4 | -25.4 | -1.46 | 1.285 | 60.6 | 0.769 | 3.168 | 69.0 | 195.9 | --- | 5.604 | 0.29 | 0.295 | 51.0 | 130.3 | 2.6 | 0.300 |
| 4-1490 | 4-2910 | 0.632 | 284.4 | -25.4 | -1.47 | 1.286 | 61.3 | 0.767 | 3.187 | 67.6 | 196.3 | --- | 5.631 | 0.30 | 0.298 | 50.8 | 131.4 | 2.5 | 0.301 |
| 4-1490 | 4-2930 | 0.622 | 285.4 | -25.4 | -1.48 | 1.287 | 61.9 | 0.765 | 3.207 | 66.2 | 196.7 | --- | 5.659 | 0.30 | 0.300 | 50.6 | 132.5 | 2.5 | 0.302 |
| 4-1490 | 4-2950 | 0.612 | 286.5 | -25.4 | -1.50 | 1.288 | 62.5 | 0.763 | 3.226 | 64.7 | 197.1 | --- | 5.687 | 0.31 | 0.303 | 50.4 | 133.7 | 2.5 | 0.303 |
| 4-1490 | 4-2970 | 0.603 | 287.5 | -25.4 | -1.51 | 1.288 | 63.1 | 0.761 | 3.245 | 63.3 | 197.5 | --- | 5.715 | 0.32 | 0.305 | 50.2 | 134.9 | 2.4 | 0.304 |
| 4-1490 | 4-2990 | 0.593 | 288.6 | -25.3 | -1.52 | 1.289 | 63.8 | 0.760 | 3.264 | 61.8 | 197.8 | --- | 5.743 | 0.33 | 0.308 | 50.0 | 136.1 | 2.4 | 0.305 |
| 4-1490 | 4-3010 | 0.583 | 289.7 | -25.3 | -1.54 | 1.290 | 64.4 | 0.758 | 3.283 | 60.4 | 198.2 | --- | 5.772 | 0.34 | 0.310 | 49.8 | 137.3 | 2.3 | 0.305 |
| 4-1490 | 4-3030 | 0.573 | 290.8 | -25.3 | -1.56 | 1.290 | 65.0 | 0.756 | 3.302 | 59.0 | 198.5 | --- | 5.800 | 0.36 | 0.312 | 49.6 | 138.6 | 2.3 | 0.306 |
| 4-1490 | 4-3050 | 0.564 | 292.0 | -25.2 | -1.57 | 1.291 | 65.6 | 0.755 | 3.321 | 57.5 | 198.9 | --- | 5.829 | 0.37 | 0.315 | 49.4 | 139.8 | 2.3 | 0.307 |
| 4-1490 | 4-3070 | 0.554 | 293.1 | -25.2 | -1.59 | 1.292 | 66.3 | 0.753 | 3.341 | 56.0 | 199.2 | --- | 5.857 | 0.39 | 0.317 | 49.3 | 141.1 | 2.2 | 0.308 |
| 4-1490 | 4-3090 | 0.545 | 294.3 | -25.1 | -1.61 | 1.292 | 66.9 | 0.752 | 3.360 | 54.6 | 199.6 | --- | 5.886 | 0.40 | 0.319 | 49.1 | 142.3 | 2.2 | 0.309 |
| 4-1500 | 4-1840 | 1.383 | 255.3 | -23.2 | -1.27 | 1.350 | 19.2 | 0.985 | 6.941 | 144.2 | 167.0 | --- | --- | 0.04 | 0.497 | 169.8 | 130.8 | 2.3 | 0.622 |
| 4-1500 | 4-1860 | 1.356 | 255.5 | -23.2 | -1.27 | 1.334 | 20.2 | 0.979 | 5.305 | 143.3 | 167.8 | --- | --- | 0.04 | 0.451 | 168.3 | 130.1 | 2.4 | 0.582 |
| 4-1500 | 4-1880 | 1.332 | 255.8 | -23.3 | -1.28 | 1.320 | 21.1 | 0.973 | 4.450 | 142.3 | 168.6 | --- | --- | 0.03 | 0.409 | 166.6 | 129.2 | 2.4 | 0.547 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1500 | 4-1900 | 1.309 | 256.1 | -23.3 | -1.28 | 1.309 | 22.0 | 0.968 | 3.932 | 141.3 | 169.3 | --- | --- | 0.03 | 0.372 | 164.8 | 128.3 | 2.4 | 0.515 |
| 4-1500 | 4-1920 | 1.289 | 256.5 | -23.4 | -1.28 | 1.299 | 22.9 | 0.963 | 3.589 | 140.3 | 170.1 | --- | --- | 0.03 | 0.339 | 162.7 | 127.4 | 2.4 | 0.488 |
| 4-1500 | 4-1940 | 1.270 | 256.9 | -23.4 | -1.28 | 1.292 | 23.7 | 0.957 | 3.348 | 139.3 | 170.8 | --- | --- | 0.03 | 0.309 | 160.3 | 126.5 | 2.5 | 0.463 |
| 4-1500 | 4-1960 | 1.252 | 257.3 | -23.5 | -1.28 | 1.285 | 24.5 | 0.952 | 3.173 | 138.2 | 171.5 | --- | --- | 0.03 | 0.281 | 157.7 | 125.5 | 2.5 | 0.442 |
| 4-1500 | 4-1980 | 1.236 | 257.7 | -23.5 | -1.28 | 1.280 | 25.3 | 0.948 | 3.042 | 137.2 | 172.1 | --- | --- | 0.03 | 0.257 | 154.7 | 124.5 | 2.5 | 0.422 |
| 4-1500 | 4-2000 | 1.220 | 258.2 | -23.6 | -1.29 | 1.276 | 26.1 | 0.943 | 2.943 | 136.1 | 172.8 | --- | --- | 0.02 | 0.236 | 151.4 | 123.4 | 2.6 | 0.405 |
| 4-1500 | 4-2020 | 1.205 | 258.7 | -23.7 | -1.29 | 1.272 | 26.9 | 0.938 | 2.866 | 135.0 | 173.4 | --- | --- | 0.02 | 0.216 | 147.6 | 122.4 | 2.6 | 0.390 |
| 4-1500 | 4-2040 | 1.190 | 259.2 | -23.7 | -1.29 | 1.269 | 27.7 | 0.934 | 2.806 | 133.8 | 174.1 | --- | --- | 0.02 | 0.200 | 143.5 | 121.4 | 2.6 | 0.377 |
| 4-1500 | 4-2060 | 1.176 | 259.7 | -23.8 | -1.29 | 1.267 | 28.4 | 0.929 | 2.759 | 132.7 | 174.7 | --- | --- | 0.02 | 0.185 | 139.0 | 120.4 | 2.7 | 0.366 |
| 4-1500 | 4-2080 | 1.163 | 260.2 | -23.8 | -1.29 | 1.265 | 29.2 | 0.925 | 2.723 | 131.5 | 175.3 | --- | --- | 0.02 | 0.173 | 134.0 | 119.5 | 2.7 | 0.355 |
| 4-1500 | 4-2100 | 1.150 | 260.7 | -23.9 | -1.29 | 1.263 | 29.9 | 0.921 | 2.696 | 130.4 | 175.9 | --- | --- | 0.02 | 0.163 | 128.7 | 118.6 | 2.7 | 0.346 |
| 4-1500 | 4-2120 | 1.137 | 261.3 | -23.9 | -1.29 | 1.262 | 30.7 | 0.916 | 2.675 | 129.2 | 176.5 | --- | --- | 0.02 | 0.156 | 123.2 | 117.7 | 2.7 | 0.339 |
| 4-1500 | 4-2140 | 1.125 | 261.8 | -24.0 | -1.29 | 1.261 | 31.4 | 0.912 | 2.660 | 128.0 | 177.1 | --- | --- | 0.02 | 0.150 | 117.4 | 116.9 | 2.7 | 0.332 |
| 4-1500 | 4-2160 | 1.113 | 262.4 | -24.0 | -1.29 | 1.261 | 32.1 | 0.908 | 2.649 | 126.8 | 177.7 | --- | --- | 0.02 | 0.146 | 111.7 | 116.1 | 2.8 | 0.326 |
| 4-1500 | 4-2180 | 1.100 | 262.9 | -24.1 | -1.29 | 1.260 | 32.8 | 0.904 | 2.642 | 125.6 | 178.3 | --- | --- | 0.02 | 0.144 | 106.0 | 115.4 | 2.8 | 0.321 |
| 4-1500 | 4-2200 | 1.089 | 263.5 | -24.1 | -1.29 | 1.260 | 33.5 | 0.900 | 2.639 | 124.3 | 178.8 | --- | --- | 0.02 | 0.144 | 100.5 | 114.8 | 2.8 | 0.316 |
| 4-1500 | 4-2220 | 1.077 | 264.1 | -24.2 | -1.30 | 1.260 | 34.2 | 0.896 | 2.638 | 123.1 | 179.4 | --- | --- | 0.02 | 0.145 | 95.4 | 114.2 | 2.8 | 0.313 |
| 4-1500 | 4-2240 | 1.065 | 264.7 | -24.2 | -1.30 | 1.260 | 34.9 | 0.892 | 2.640 | 121.8 | 179.9 | --- | --- | 0.02 | 0.147 | 90.6 | 113.7 | 2.8 | 0.310 |
| 4-1500 | 4-2260 | 1.054 | 265.3 | -24.3 | -1.30 | 1.261 | 35.6 | 0.888 | 2.644 | 120.6 | 180.5 | --- | 4.992 | 0.02 | 0.150 | 86.2 | 113.3 | 2.8 | 0.307 |
| 4-1500 | 4-2280 | 1.043 | 265.9 | -24.3 | -1.30 | 1.261 | 36.3 | 0.885 | 2.649 | 119.3 | 181.0 | --- | 4.993 | 0.02 | 0.154 | 82.3 | 113.0 | 2.8 | 0.305 |
| 4-1500 | 4-2300 | 1.031 | 266.5 | -24.4 | -1.30 | 1.261 | 37.0 | 0.881 | 2.657 | 118.1 | 181.6 | --- | 4.997 | 0.02 | 0.158 | 78.7 | 112.7 | 2.8 | 0.303 |
| 4-1500 | 4-2320 | 1.020 | 267.1 | -24.4 | -1.30 | 1.262 | 37.7 | 0.877 | 2.665 | 116.8 | 182.1 | --- | 5.003 | 0.02 | 0.163 | 75.5 | 112.6 | 2.8 | 0.302 |
| 4-1500 | 4-2340 | 1.009 | 267.8 | -24.4 | -1.30 | 1.262 | 38.4 | 0.873 | 2.675 | 115.5 | 182.6 | --- | 5.012 | 0.02 | 0.168 | 72.7 | 112.5 | 2.8 | 0.300 |
| 4-1500 | 4-2360 | 0.998 | 268.4 | -24.5 | -1.30 | 1.263 | 39.0 | 0.870 | 2.686 | 114.2 | 183.1 | --- | 5.023 | 0.02 | 0.173 | 70.1 | 112.4 | 2.8 | 0.300 |
| 4-1500 | 4-2380 | 0.987 | 269.1 | -24.5 | -1.30 | 1.264 | 39.7 | 0.866 | 2.698 | 112.9 | 183.6 | --- | 5.035 | 0.02 | 0.178 | 67.9 | 112.5 | 2.8 | 0.299 |
| 4-1500 | 4-2400 | 0.976 | 269.7 | -24.5 | -1.30 | 1.264 | 40.4 | 0.863 | 2.711 | 111.6 | 184.2 | --- | 5.049 | 0.02 | 0.184 | 65.9 | 112.6 | 2.8 | 0.299 |
| 4-1500 | 4-2420 | 0.965 | 270.4 | -24.6 | -1.30 | 1.265 | 41.1 | 0.859 | 2.725 | 110.3 | 184.7 | --- | 5.065 | 0.02 | 0.189 | 64.1 | 112.8 | 2.8 | 0.298 |
| 4-1500 | 4-2440 | 0.954 | 271.0 | -24.6 | -1.30 | 1.266 | 41.7 | 0.856 | 2.739 | 108.9 | 185.2 | --- | 5.082 | 0.02 | 0.195 | 62.5 | 113.0 | 2.8 | 0.298 |
| 4-1500 | 4-2460 | 0.943 | 271.7 | -24.6 | -1.30 | 1.267 | 42.4 | 0.852 | 2.754 | 107.6 | 185.7 | --- | 5.100 | 0.02 | 0.200 | 61.0 | 113.3 | 2.8 | 0.298 |
| 4-1500 | 4-2480 | 0.932 | 272.4 | -24.6 | -1.30 | 1.267 | 43.1 | 0.849 | 2.769 | 106.3 | 186.2 | --- | 5.119 | 0.01 | 0.206 | 59.7 | 113.7 | 2.8 | 0.299 |
| 4-1500 | 4-2500 | 0.922 | 273.0 | -24.7 | -1.30 | 1.268 | 43.8 | 0.845 | 2.785 | 104.9 | 186.7 | --- | 5.139 | 0.01 | 0.211 | 58.6 | 114.1 | 2.8 | 0.299 |
| 4-1500 | 4-2520 | 0.911 | 273.7 | -24.7 | -1.30 | 1.269 | 44.4 | 0.842 | 2.801 | 103.6 | 187.1 | --- | 5.160 | 0.01 | 0.216 | 57.5 | 114.6 | 2.8 | 0.299 |
| 4-1500 | 4-2540 | 0.900 | 274.4 | -24.7 | -1.30 | 1.270 | 45.1 | 0.839 | 2.818 | 102.3 | 187.6 | --- | 5.181 | 0.01 | 0.221 | 56.6 | 115.1 | 2.8 | 0.300 |
| 4-1500 | 4-2560 | 0.889 | 275.1 | -24.7 | -1.30 | 1.271 | 45.7 | 0.835 | 2.835 | 100.9 | 188.1 | --- | 5.203 | 0.01 | 0.226 | 55.7 | 115.7 | 2.8 | 0.300 |
| 4-1500 | 4-2580 | 0.878 | 275.8 | -24.7 | -1.31 | 1.271 | 46.4 | 0.832 | 2.852 | 99.5 | 188.6 | --- | 5.226 | 0.01 | 0.231 | 55.0 | 116.4 | 2.8 | 0.301 |
| 4-1500 | 4-2600 | 0.868 | 276.6 | -24.7 | -1.31 | 1.272 | 47.1 | 0.829 | 2.870 | 98.2 | 189.0 | --- | 5.250 | 0.01 | 0.236 | 54.3 | 117.0 | 2.7 | 0.301 |
| 4-1500 | 4-2620 | 0.857 | 277.3 | -24.7 | -1.31 | 1.273 | 47.7 | 0.826 | 2.888 | 96.8 | 189.5 | --- | 5.273 | 0.01 | 0.240 | 53.6 | 117.7 | 2.7 | 0.302 |
| 4-1500 | 4-2640 | 0.846 | 278.0 | -24.7 | -1.31 | 1.274 | 48.4 | 0.823 | 2.906 | 95.4 | 190.0 | --- | 5.298 | 0.01 | 0.245 | 53.1 | 118.5 | 2.7 | 0.303 |
| 4-1500 | 4-2660 | 0.836 | 278.8 | -24.7 | -1.31 | 1.275 | 49.0 | 0.820 | 2.924 | 94.0 | 190.4 | --- | 5.323 | 0.01 | 0.249 | 52.5 | 119.3 | 2.7 | 0.303 |
| 4-1500 | 4-2680 | 0.825 | 279.5 | -24.7 | -1.31 | 1.276 | 49.7 | 0.817 | 2.943 | 92.7 | 190.9 | --- | 5.348 | 0.01 | 0.253 | 52.1 | 120.1 | 2.7 | 0.304 |
| 4-1500 | 4-2700 | 0.814 | 280.3 | -24.7 | -1.31 | 1.277 | 50.3 | 0.814 | 2.962 | 91.3 | 191.3 | --- | 5.373 | 0.01 | 0.257 | 51.6 | 121.0 | 2.6 | 0.305 |
| 4-1500 | 4-2720 | 0.804 | 281.1 | -24.7 | -1.31 | 1.277 | 51.0 | 0.811 | 2.981 | 89.9 | 191.7 | --- | 5.399 | 0.02 | 0.261 | 51.2 | 121.9 | 2.6 | 0.306 |
| 4-1500 | 4-2740 | 0.793 | 281.8 | -24.7 | -1.31 | 1.278 | 51.6 | 0.809 | 3.000 | 88.5 | 192.2 | --- | 5.425 | 0.02 | 0.265 | 50.9 | 122.8 | 2.6 | 0.306 |
| 4-1500 | 4-2760 | 0.782 | 282.6 | -24.6 | -1.31 | 1.279 | 52.3 | 0.806 | 3.019 | 87.1 | 192.6 | --- | 5.451 | 0.02 | 0.269 | 50.5 | 123.8 | 2.6 | 0.307 |
| 4-1500 | 4-2780 | 0.772 | 283.4 | -24.6 | -1.31 | 1.280 | 52.9 | 0.803 | 3.038 | 85.7 | 193.0 | --- | 5.478 | 0.02 | 0.273 | 50.2 | 124.8 | 2.5 | 0.308 |
| 4-1500 | 4-2800 | 0.761 | 284.3 | -24.6 | -1.31 | 1.281 | 53.6 | 0.801 | 3.057 | 84.3 | 193.4 | --- | 5.504 | 0.02 | 0.276 | 49.9 | 125.8 | 2.5 | 0.308 |
| 4-1500 | 4-2820 | 0.751 | 285.1 | -24.5 | -1.31 | 1.281 | 54.2 | 0.798 | 3.076 | 82.9 | 193.9 | --- | 5.531 | 0.02 | 0.280 | 49.7 | 126.8 | 2.5 | 0.309 |
| 4-1500 | 4-2840 | 0.740 | 285.9 | -24.5 | -1.31 | 1.282 | 54.9 | 0.795 | 3.096 | 81.4 | 194.3 | --- | 5.559 | 0.02 | 0.283 | 49.4 | 127.9 | 2.4 | 0.310 |
| 4-1500 | 4-2860 | 0.730 | 286.8 | -24.5 | -1.31 | 1.283 | 55.5 | 0.793 | 3.115 | 80.0 | 194.7 | --- | 5.586 | 0.02 | 0.286 | 49.2 | 129.0 | 2.4 | 0.311 |
| 4-1500 | 4-2880 | 0.719 | 287.6 | -24.4 | -1.31 | 1.284 | 56.2 | 0.791 | 3.135 | 78.6 | 195.1 | --- | 5.613 | 0.02 | 0.289 | 49.0 | 130.1 | 2.4 | 0.311 |
| 4-1500 | 4-2900 | 0.709 | 288.5 | -24.4 | -1.31 | 1.285 | 56.8 | 0.788 | 3.155 | 77.2 | 195.5 | --- | 5.641 | 0.02 | 0.292 | 48.8 | 131.2 | 2.3 | 0.312 |
| 4-1500 | 4-2920 | 0.698 | 289.4 | -24.3 | -1.31 | 1.285 | 57.5 | 0.786 | 3.174 | 75.7 | 195.9 | --- | 5.669 | 0.02 | 0.295 | 48.6 | 132.4 | 2.3 | 0.313 |
| 4-1500 | 4-2940 | 0.688 | 290.3 | -24.2 | -1.31 | 1.286 | 58.1 | 0.784 | 3.194 | 74.3 | 196.2 | --- | 5.697 | 0.02 | 0.298 | 48.5 | 133.5 | 2.2 | 0.313 |
| 4-1500 | 4-2960 | 0.678 | 291.2 | -24.2 | -1.32 | 1.287 | 58.7 | 0.782 | 3.213 | 72.9 | 196.6 | --- | 5.725 | 0.02 | 0.301 | 48.3 | 134.7 | 2.2 | 0.314 |
| 4-1500 | 4-2980 | 0.667 | 292.2 | -24.1 | -1.32 | 1.288 | 59.4 | 0.779 | 3.233 | 71.4 | 197.0 | --- | 5.753 | 0.02 | 0.303 | 48.2 | 135.9 | 2.1 | 0.314 |
| 4-1500 | 4-3000 | 0.657 | 293.1 | -24.0 | -1.32 | 1.288 | 60.0 | 0.777 | 3.253 | 70.0 | 197.4 | --- | 5.781 | 0.02 | 0.306 | 48.0 | 137.1 | 2.1 | 0.315 |
| 4-1500 | 4-3020 | 0.647 | 294.1 | -23.9 | -1.32 | 1.289 | 60.7 | 0.775 | 3.272 | 68.6 | 197.7 | --- | 5.810 | 0.02 | 0.308 | 47.9 | 138.3 | 2.1 | 0.316 |
| 4-1500 | 4-3040 | 0.637 | 295.1 | -23.8 | -1.32 | 1.290 | 61.3 | 0.773 | 3.292 | 67.1 | 198.1 | --- | 5.838 | 0.02 | 0.311 | 47.8 | 139.6 | 2.0 | 0.316 |
| 4-1500 | 4-3060 | 0.627 | 296.1 | -23.7 | -1.32 | 1.290 | 61.9 | 0.772 | 3.312 | 65.7 | 198.4 | --- | 5.867 | 0.02 | 0.313 | 47.7 | 140.8 | 2.0 | 0.317 |
| 4-1500 | 4-3080 | 0.616 | 297.1 | -23.6 | -1.32 | 1.291 | 62.6 | 0.770 | 3.331 | 64.2 | 198.8 | --- | 5.896 | 0.02 | 0.315 | 47.6 | 142.1 | 1.9 | 0.317 |
| 4-1500 | 4-3100 | 0.606 | 298.1 | -23.5 | -1.32 | 1.292 | 63.2 | 0.768 | 3.351 | 62.8 | 199.1 | --- | 5.924 | 0.02 | 0.317 | 47.5 | 143.4 | 1.8 | 0.318 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1700 | 4-2100 | 0.839 | 287.8 | -19.7 | 1.96 | 1.425 | 125.2 | 0.99970 | .081 | 289.6 | 497.7 | 0.657 | --- | -0.80 | 0.630 | 158.8 | 168.1 | 0.3 | 0.644 |
| 4-1700 | 4-2120 | 0.808 | 287.4 | -19.7 | 1.91 | 1.406 | 124.1 | 0.96318 | .098 | 290.3 | 500.1 | 0.668 | --- | -0.76 | 0.586 | 157.1 | 168.2 | 0.3 | 0.599 |
| 4-1700 | 4-2140 | 0.780 | 287.1 | -19.7 | 1.86 | 1.390 | 123.2 | 0.932 | 9.936 | 290.9 | 502.5 | 0.678 | --- | -0.72 | 0.546 | 155.3 | 168.3 | 0.3 | 0.559 |
| 4-1700 | 4-2160 | 0.756 | 286.8 | -19.7 | 1.82 | 1.376 | 122.3 | 0.905 | 7.194 | 291.4 | 504.8 | 0.687 | --- | -0.69 | 0.510 | 153.4 | 168.2 | 0.3 | 0.522 |
| 4-1700 | 4-2180 | 0.735 | 286.5 | -19.7 | 1.79 | 1.364 | 121.6 | 0.881 | 5.828 | 291.9 | 507.1 | 0.695 | --- | -0.66 | 0.477 | 151.4 | 168.1 | 0.3 | 0.489 |
| 4-1700 | 4-2200 | 0.717 | 286.3 | -19.7 | 1.75 | 1.354 | 121.0 | 0.860 | 5.017 | 292.3 | 509.3 | 0.701 | --- | -0.63 | 0.448 | 149.3 | 167.8 | 0.3 | 0.459 |
| 4-1700 | 4-2220 | 0.701 | 286.1 | -19.8 | 1.72 | 1.345 | 120.4 | 0.842 | 4.484 | 292.6 | 511.4 | 0.707 | --- | -0.60 | 0.421 | 147.1 | 167.5 | 0.3 | 0.431 |
| 4-1700 | 4-2240 | 0.688 | 285.9 | -19.8 | 1.69 | 1.338 | 120.0 | 0.827 | 4.110 | 292.9 | 513.5 | 0.712 | --- | -0.58 | 0.396 | 144.8 | 167.0 | 0.4 | 0.406 |
| 4-1700 | 4-2260 | 0.677 | 285.8 | -19.8 | 1.66 | 1.331 | 119.6 | 0.813 | 3.835 | 293.1 | 515.5 | 0.716 | --- | -0.56 | 0.374 | 142.4 | 166.4 | 0.4 | 0.384 |
| 4-1700 | 4-2280 | 0.668 | 285.7 | -19.8 | 1.64 | 1.326 | 119.2 | 0.802 | 3.627 | 293.2 | 517.4 | 0.719 | --- | -0.54 | 0.354 | 139.9 | 165.7 | 0.4 | 0.363 |
| 4-1700 | 4-2300 | 0.660 | 285.7 | -19.8 | 1.61 | 1.321 | 119.0 | 0.792 | 3.466 | 293.3 | 519.3 | 0.721 | --- | -0.53 | 0.336 | 137.2 | 164.8 | 0.5 | 0.345 |
| 4-1700 | 4-2320 | 0.654 | 285.7 | -19.8 | 1.59 | 1.317 | 118.8 | 0.784 | 3.338 | 293.3 | 521.1 | 0.722 | --- | -0.51 | 0.319 | 134.5 | 163.9 | 0.5 | 0.328 |
| 4-1700 | 4-2340 | 0.649 | 285.8 | -19.8 | 1.57 | 1.313 | 118.7 | 0.776 | 3.235 | 293.2 | 522.8 | 0.723 | --- | -0.50 | 0.305 | 131.6 | 162.8 | 0.5 | 0.313 |
| 4-1700 | 4-2360 | 0.646 | 285.9 | -19.9 | 1.55 | 1.310 | 118.6 | 0.771 | 3.152 | 293.1 | 524.5 | 0.723 | --- | -0.48 | 0.291 | 128.7 | 161.6 | 0.6 | 0.300 |
| 4-1700 | 4-2380 | 0.643 | 286.1 | -19.9 | 1.53 | 1.307 | 118.5 | 0.766 | 3.084 | 292.8 | 526.1 | 0.723 | --- | -0.47 | 0.280 | 125.6 | 160.3 | 0.7 | 0.288 |
| 4-1700 | 4-2400 | 0.642 | 286.3 | -19.9 | 1.51 | 1.305 | 118.6 | 0.762 | 3.028 | 292.6 | 527.6 | 0.722 | --- | -0.46 | 0.269 | 122.5 | 159.0 | 0.7 | 0.277 |
| 4-1700 | 4-2420 | 0.642 | 286.5 | -19.9 | 1.50 | 1.303 | 118.6 | 0.759 | 2.982 | 292.2 | 529.1 | 0.720 | --- | -0.45 | 0.260 | 119.3 | 157.5 | 0.8 | 0.268 |
| 4-1700 | 4-2440 | 0.643 | 286.8 | -19.9 | 1.48 | 1.301 | 118.7 | 0.756 | 2.945 | 291.8 | 530.5 | 0.718 | --- | -0.44 | 0.252 | 116.1 | 156.0 | 0.9 | 0.261 |
| 4-1700 | 4-2460 | 0.644 | 287.1 | -19.9 | 1.46 | 1.300 | 118.9 | 0.755 | 2.914 | 291.3 | 531.9 | 0.715 | --- | -0.43 | 0.245 | 112.8 | 154.5 | 0.9 | 0.254 |
| 4-1700 | 4-2480 | 0.647 | 287.4 | -19.9 | 1.45 | 1.299 | 119.1 | 0.754 | 2.888 | 290.8 | 533.2 | 0.711 | --- | -0.43 | 0.239 | 109.6 | 152.9 | 1.0 | 0.249 |
| 4-1700 | 4-2500 | 0.650 | 287.8 | -19.9 | 1.43 | 1.298 | 119.3 | 0.753 | 2.868 | 290.2 | 534.4 | 0.707 | --- | -0.42 | 0.234 | 106.3 | 151.4 | 1.1 | 0.245 |
| 4-1700 | 4-2520 | 0.654 | 288.2 | -19.9 | 1.42 | 1.297 | 119.5 | 0.754 | 2.851 | 289.6 | 535.6 | 0.703 | --- | -0.41 | 0.230 | 103.1 | 149.9 | 1.2 | 0.242 |
| 4-1700 | 4-2540 | 0.659 | 288.6 | -19.9 | 1.40 | 1.296 | 119.8 | 0.754 | 2.838 | 288.9 | 536.7 | 0.698 | --- | -0.41 | 0.227 | 99.8 | 148.5 | 1.2 | 0.240 |
| 4-1700 | 4-2560 | 0.664 | 289.1 | -19.9 | 1.39 | 1.296 | 120.2 | 0.755 | 2.828 | 288.1 | 537.8 | 0.692 | --- | -0.40 | 0.224 | 96.7 | 147.1 | 1.3 | 0.239 |
| 4-1700 | 4-2580 | 0.670 | 289.6 | -19.9 | 1.38 | 1.296 | 120.5 | 0.757 | 2.821 | 287.3 | 538.9 | 0.686 | --- | -0.40 | 0.222 | 93.6 | 145.9 | 1.4 | 0.239 |
| 4-1700 | 4-2600 | 0.677 | 290.1 | -19.9 | 1.36 | 1.295 | 120.9 | 0.759 | 2.815 | 286.5 | 539.8 | 0.680 | --- | -0.40 | 0.221 | 90.5 | 144.7 | 1.4 | 0.239 |
| 4-1700 | 4-2620 | 0.684 | 290.6 | -19.9 | 1.35 | 1.295 | 121.3 | 0.761 | 2.812 | 285.6 | 540.8 | 0.673 | 4.952 | -0.39 | 0.220 | 87.6 | 143.7 | 1.5 | 0.241 |
| 4-1700 | 4-2640 | 0.692 | 291.2 | -19.9 | 1.34 | 1.295 | 121.8 | 0.763 | 2.811 | 284.6 | 541.6 | 0.665 | 4.957 | -0.39 | 0.220 | 84.7 | 142.8 | 1.5 | 0.242 |
| 4-1700 | 4-2660 | 0.700 | 291.8 | -19.8 | 1.32 | 1.295 | 122.2 | 0.766 | 2.812 | 283.6 | 542.5 | 0.657 | 4.966 | -0.39 | 0.220 | 82.0 | 142.0 | 1.5 | 0.245 |
| 4-1700 | 4-2680 | 0.709 | 292.4 | -19.8 | 1.31 | 1.295 | 122.7 | 0.769 | 2.814 | 282.6 | 543.3 | 0.649 | 4.978 | -0.38 | 0.220 | 79.3 | 141.4 | 1.6 | 0.247 |
| 4-1700 | 4-2700 | 0.718 | 293.0 | -19.8 | 1.30 | 1.295 | 123.3 | 0.773 | 2.817 | 281.5 | 544.0 | 0.640 | 4.993 | -0.38 | 0.221 | 76.7 | 140.9 | 1.6 | 0.251 |
| 4-1700 | 4-2720 | 0.728 | 293.7 | -19.7 | 1.29 | 1.296 | 123.8 | 0.776 | 2.821 | 280.4 | 544.7 | 0.631 | 5.011 | -0.38 | 0.222 | 74.3 | 140.5 | 1.6 | 0.254 |
| 4-1700 | 4-2740 | 0.739 | 294.3 | -19.7 | 1.27 | 1.296 | 124.4 | 0.780 | 2.826 | 279.2 | 545.4 | 0.622 | 5.031 | -0.38 | 0.223 | 71.9 | 140.3 | 1.6 | 0.258 |
| 4-1700 | 4-2760 | 0.749 | 295.0 | -19.6 | 1.26 | 1.296 | 125.0 | 0.784 | 2.833 | 278.0 | 546.0 | 0.611 | 5.054 | -0.38 | 0.225 | 69.6 | 140.2 | 1.7 | 0.262 |
| 4-1700 | 4-2780 | 0.761 | 295.7 | -19.6 | 1.25 | 1.296 | 125.6 | 0.788 | 2.840 | 276.7 | 546.6 | 0.601 | 5.079 | -0.38 | 0.227 | 67.4 | 140.2 | 1.7 | 0.267 |
| 4-1700 | 4-2800 | 0.772 | 296.4 | -19.5 | 1.24 | 1.297 | 126.3 | 0.793 | 2.848 | 275.5 | 547.1 | 0.590 | 5.105 | -0.38 | 0.228 | 65.2 | 140.3 | 1.7 | 0.272 |
| 4-1700 | 4-2820 | 0.785 | 297.1 | -19.5 | 1.23 | 1.297 | 126.9 | 0.797 | 2.856 | 274.1 | 547.6 | 0.579 | 5.134 | -0.38 | 0.230 | 63.2 | 140.6 | 1.7 | 0.277 |
| 4-1700 | 4-2840 | 0.797 | 297.8 | -19.4 | 1.21 | 1.298 | 127.6 | 0.802 | 2.866 | 272.8 | 548.1 | 0.567 | 5.164 | -0.38 | 0.232 | 61.2 | 140.9 | 1.7 | 0.282 |
| 4-1700 | 4-2860 | 0.810 | 298.5 | -19.3 | 1.20 | 1.298 | 128.3 | 0.807 | 2.875 | 271.4 | 548.6 | 0.555 | 5.196 | -0.38 | 0.235 | 59.3 | 141.4 | 1.6 | 0.287 |
| 4-1700 | 4-2880 | 0.823 | 299.3 | -19.2 | 1.19 | 1.299 | 129.1 | 0.812 | 2.886 | 270.0 | 549.0 | 0.543 | 5.229 | -0.38 | 0.237 | 57.5 | 141.9 | 1.6 | 0.292 |
| 4-1700 | 4-2900 | 0.837 | 300.0 | -19.1 | 1.18 | 1.299 | 129.8 | 0.817 | 2.897 | 268.5 | 549.3 | 0.530 | 5.264 | -0.39 | 0.239 | 55.7 | 142.5 | 1.6 | 0.298 |
| 4-1700 | 4-2920 | 0.851 | 300.8 | -19.1 | 1.16 | 1.300 | 130.6 | 0.822 | 2.908 | 267.0 | 549.7 | 0.517 | 5.300 | -0.39 | 0.241 | 53.9 | 143.2 | 1.6 | 0.303 |
| 4-1700 | 4-2940 | 0.865 | 301.5 | -19.0 | 1.15 | 1.300 | 131.4 | 0.828 | 2.920 | 265.5 | 550.0 | 0.504 | 5.337 | -0.39 | 0.244 | 52.3 | 144.0 | 1.6 | 0.309 |
| 4-1700 | 4-2960 | 0.880 | 302.3 | -18.9 | 1.14 | 1.301 | 132.2 | 0.833 | 2.932 | 264.0 | 550.2 | 0.490 | 5.375 | -0.39 | 0.246 | 50.6 | 144.9 | 1.5 | 0.315 |
| 4-1700 | 4-2980 | 0.895 | 303.1 | -18.7 | 1.13 | 1.301 | 133.1 | 0.838 | 2.945 | 262.4 | 550.5 | 0.476 | 5.414 | -0.40 | 0.248 | 49.1 | 145.8 | 1.5 | 0.321 |
| 4-1700 | 4-3000 | 0.911 | 303.9 | -18.6 | 1.11 | 1.302 | 133.9 | 0.844 | 2.958 | 260.8 | 550.7 | 0.462 | 5.454 | -0.40 | 0.251 | 47.5 | 146.7 | 1.5 | 0.326 |
| 4-1700 | 4-3020 | 0.927 | 304.6 | -18.5 | 1.10 | 1.302 | 134.8 | 0.850 | 2.971 | 259.2 | 550.8 | 0.447 | 5.495 | -0.41 | 0.253 | 46.0 | 147.8 | 1.4 | 0.332 |
| 4-1700 | 4-3040 | 0.943 | 305.4 | -18.4 | 1.09 | 1.303 | 135.7 | 0.855 | 2.985 | 257.5 | 551.0 | 0.432 | 5.537 | -0.41 | 0.255 | 44.6 | 148.9 | 1.4 | 0.338 |
| 4-1700 | 4-3060 | 0.959 | 306.2 | -18.3 | 1.07 | 1.304 | 136.6 | 0.861 | 2.999 | 255.8 | 551.1 | 0.417 | 5.580 | -0.42 | 0.258 | 43.1 | 150.0 | 1.3 | 0.344 |
| 4-1700 | 4-3080 | 0.976 | 307.0 | -18.1 | 1.06 | 1.304 | 137.5 | 0.866 | 3.013 | 254.1 | 551.2 | 0.402 | 5.624 | -0.43 | 0.260 | 41.7 | 151.2 | 1.3 | 0.350 |
| 4-1700 | 4-3100 | 0.993 | 307.8 | -18.0 | 1.04 | 1.305 | 138.5 | 0.872 | 3.027 | 252.4 | 551.3 | 0.387 | 5.668 | -0.43 | 0.262 | 40.3 | 152.4 | 1.2 | 0.356 |
| 4-1700 | 4-3120 | 1.010 | 308.6 | -17.8 | 1.03 | 1.305 | 139.4 | 0.878 | 3.042 | 250.7 | 551.3 | 0.372 | 5.713 | -0.44 | 0.265 | 39.0 | 153.7 | 1.2 | 0.362 |
| 4-1700 | 4-3140 | 1.027 | 309.4 | -17.7 | 1.01 | 1.306 | 140.4 | 0.884 | 3.057 | 248.9 | 551.3 | 0.356 | 5.758 | -0.45 | 0.267 | 37.7 | 155.0 | 1.1 | 0.369 |
| 4-1700 | 4-3160 | 1.045 | 310.2 | -17.5 | 0.99 | 1.307 | 141.4 | 0.889 | 3.072 | 247.1 | 551.3 | 0.340 | 5.804 | -0.46 | 0.269 | 36.4 | 156.4 | 1.0 | 0.375 |
| 4-1700 | 4-3180 | 1.063 | 311.0 | -17.4 | 0.97 | 1.307 | 142.4 | 0.895 | 3.087 | 245.2 | 551.2 | 0.325 | 5.850 | -0.47 | 0.271 | 35.1 | 157.8 | 1.0 | 0.381 |
| 4-1700 | 4-3200 | 1.081 | 311.9 | -17.2 | 0.96 | 1.308 | 143.5 | 0.900 | 3.103 | 243.4 | 551.2 | 0.309 | 5.897 | -0.48 | 0.273 | 33.8 | 159.2 | 0.9 | 0.387 |
| 4-1700 | 4-3220 | 1.100 | 312.7 | -17.0 | 0.94 | 1.309 | 144.5 | 0.906 | 3.119 | 241.5 | 551.1 | 0.293 | 5.944 | -0.49 | 0.276 | 32.5 | 160.7 | 0.8 | 0.393 |
| 4-1700 | 4-3240 | 1.118 | 313.5 | -16.8 | 0.92 | 1.309 | 145.6 | 0.911 | 3.135 | 239.7 | 550.9 | 0.278 | 5.992 | -0.50 | 0.278 | 31.3 | 162.1 | 0.8 | 0.399 |
| 4-1700 | 4-3260 | 1.137 | 314.3 | -16.7 | 0.90 | 1.310 | 146.6 | 0.917 | 3.151 | 237.7 | 550.8 | 0.262 | 6.039 | -0.52 | 0.280 | 30.1 | 163.7 | 0.7 | 0.405 |
| 4-1700 | 4-3280 | 1.156 | 315.1 | -16.5 | 0.87 | 1.310 | 147.7 | 0.922 | 3.167 | 235.8 | 550.6 | 0.247 | 6.087 | -0.53 | 0.282 | 28.9 | 165.2 | 0.6 | 0.411 |
| 4-1700 | 4-3300 | 1.175 | 315.9 | -16.3 | 0.85 | 1.311 | 148.8 | 0.927 | 3.183 | 233.9 | 550.4 | 0.231 | 6.135 | -0.55 | 0.284 | 27.7 | 166.8 | 0.5 | 0.417 |
| 4-1710 | 4-2110 | 0.785 | 293.5 | -17.1 | 2.91 | 1.427 | 121.7 | 1.00497 | .823 | 296.7 | 495.5 | 0.713 | --- | -1.84 | 0.635 | 158.0 | 169.8 | -0.1 | 0.642 |
| 4-1710 | 4-2130 | 0.753 | 293.1 | -17.3 | 2.74 | 1.408 | 120.7 | 0.96520 | .447 | 297.4 | 498.0 | 0.724 | --- | -1.69 | 0.591 | 156.3 | 170.0 | -0.1 | 0.597 |
| 4-1710 | 4-2150 | 0.725 | 292.7 | -17.4 | 2.61 | 1.392 | 119.7 | 0.93110 | .594 | 298.1 | 500.5 | 0.734 | --- | -1.56 | 0.552 | 154.5 | 170.1 | -0.1 | 0.557 |
| 4-1710 | 4-2170 | 0.701 | 292.4 | -17.5 | 2.49 | 1.378 | 118.9 | 0.901 | 7.526 | 298.7 | 502.8 | 0.742 | --- | -1.45 | 0.516 | 152.7 | 170.1 | -0.1 | 0.520 |
| 4-1710 | 4-2190 | 0.680 | 292.0 | -17.6 | 2.38 | 1.366 | 118.2 | 0.876 | 6.041 | 299.3 | 505.2 | 0.750 | --- | -1.36 | 0.484 | 150.7 | 170.0 | -0.1 | 0.487 |
| 4-1710 | 4-2210 | 0.662 | 291.7 | -17.7 | 2.29 | 1.356 | 117.5 | 0.854 | 5.171 | 299.7 | 507.5 | 0.756 | --- | -1.28 | 0.454 | 148.6 | 169.8 | -0.1 | 0.457 |
| 4-1710 | 4-2230 | 0.646 | 291.5 | -17.8 | 2.21 | 1.347 | 117.0 | 0.835 | 4.604 | 300.2 | 509.7 | 0.762 | --- | -1.20 | 0.428 | 146.4 | 169.5 | -0.1 | 0.430 |
| 4-1710 | 4-2250 | 0.633 | 291.3 | -17.9 | 2.14 | 1.339 | 116.5 | 0.818 | 4.209 | 300.5 | 511.8 | 0.767 | --- | -1.14 | 0.404 | 144.1 | 169.0 | -0.1 | 0.404 |
| 4-1710 | 4-2270 | 0.621 | 291.1 | -18.0 | 2.07 | 1.333 | 116.1 | 0.803 | 3.920 | 300.8 | 513.9 | 0.771 | --- | -1.09 | 0.382 | 141.8 | 168.5 | -0.1 | 0.382 |
| 4-1710 | 4-2290 | 0.612 | 291.0 | -18.1 | 2.01 | 1.327 | 115.7 | 0.791 | 3.701 | 301.0 | 515.9 | 0.774 | --- | -1.04 | 0.362 | 139.3 | 167.9 | -0.0 | 0.361 |
| 4-1710 | 4-2310 | 0.604 | 291.0 | -18.1 | 1.96 | 1.322 | 115.5 | 0.780 | 3.532 | 301.1 | 517.8 | 0.776 | --- | -0.99 | 0.344 | 136.7 | 167.1 | 0.0 | 0.342 |
| 4-1710 | 4-2330 | 0.597 | 291.0 | -18.2 | 1.91 | 1.318 | 115.3 | 0.771 | 3.398 | 301.2 | 519.7 | 0.778 | --- | -0.95 | 0.328 | 134.0 | 166.2 | 0.0 | 0.325 |
| 4-1710 | 4-2350 | 0.592 | 291.0 | -18.3 | 1.86 | 1.314 | 115.1 | 0.763 | 3.291 | 301.1 | 521.5 | 0.779 | --- | -0.92 | 0.313 | 131.2 | 165.2 | 0.1 | 0.310 |
| 4-1710 | 4-2370 | 0.588 | 291.1 | -18.3 | 1.82 | 1.311 | 115.0 | 0.757 | 3.204 | 301.1 | 523.2 | 0.779 | --- | -0.88 | 0.300 | 128.4 | 164.1 | 0.1 | 0.296 |
| 4-1710 | 4-2390 | 0.585 | 291.2 | -18.4 | 1.78 | 1.308 | 114.9 | 0.751 | 3.133 | 300.9 | 524.9 | 0.779 | --- | -0.85 | 0.289 | 125.5 | 162.8 | 0.2 | 0.284 |
| 4-1710 | 4-2410 | 0.584 | 291.4 | -18.4 | 1.74 | 1.306 | 114.9 | 0.747 | 3.074 | 300.7 | 526.5 | 0.779 | --- | -0.83 | 0.278 | 122.5 | 161.5 | 0.3 | 0.273 |
| 4-1710 | 4-2430 | 0.583 | 291.6 | -18.5 | 1.70 | 1.304 | 115.0 | 0.743 | 3.026 | 300.4 | 528.0 | 0.777 | --- | -0.80 | 0.269 | 119.4 | 160.1 | 0.3 | 0.264 |
| 4-1710 | 4-2450 | 0.583 | 291.9 | -18.5 | 1.67 | 1.302 | 115.1 | 0.740 | 2.986 | 300.0 | 529.5 | 0.776 | --- | -0.78 | 0.261 | 116.3 | 158.6 | 0.4 | 0.256 |
| 4-1710 | 4-2470 | 0.584 | 292.2 | -18.5 | 1.64 | 1.301 | 115.2 | 0.738 | 2.954 | 299.6 | 530.9 | 0.773 | --- | -0.76 | 0.254 | 113.2 | 157.1 | 0.5 | 0.249 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1710 | 4-2490 | 0.586 | 292.5 | -18.6 | 1.61 | 1.300 | 115.3 | 0.737 | 2.927 | 299.2 | 532.3 | 0.771 | --- | -0.74 | 0.249 | 110.1 | 155.6 | 0.6 | 0.244 |
| 4-1710 | 4-2510 | 0.589 | 292.9 | -18.6 | 1.58 | 1.299 | 115.5 | 0.736 | 2.905 | 298.6 | 533.6 | 0.767 | --- | -0.72 | 0.244 | 107.0 | 154.1 | 0.6 | 0.239 |
| 4-1710 | 4-2530 | 0.592 | 293.3 | -18.6 | 1.55 | 1.298 | 115.8 | 0.736 | 2.887 | 298.0 | 534.8 | 0.764 | --- | -0.71 | 0.239 | 104.0 | 152.6 | 0.7 | 0.236 |
| 4-1710 | 4-2550 | 0.596 | 293.8 | -18.6 | 1.52 | 1.297 | 116.0 | 0.736 | 2.873 | 297.4 | 536.0 | 0.759 | --- | -0.69 | 0.236 | 100.9 | 151.1 | 0.8 | 0.233 |
| 4-1710 | 4-2570 | 0.601 | 294.3 | -18.6 | 1.50 | 1.297 | 116.3 | 0.736 | 2.862 | 296.7 | 537.1 | 0.755 | --- | -0.68 | 0.233 | 98.0 | 149.7 | 0.9 | 0.232 |
| 4-1710 | 4-2590 | 0.606 | 294.8 | -18.6 | 1.47 | 1.296 | 116.6 | 0.737 | 2.854 | 295.9 | 538.2 | 0.750 | --- | -0.67 | 0.231 | 95.0 | 148.4 | 0.9 | 0.231 |
| 4-1710 | 4-2610 | 0.612 | 295.3 | -18.6 | 1.45 | 1.296 | 117.0 | 0.739 | 2.848 | 295.1 | 539.2 | 0.744 | --- | -0.66 | 0.230 | 92.2 | 147.2 | 1.0 | 0.231 |
| 4-1710 | 4-2630 | 0.618 | 295.9 | -18.6 | 1.43 | 1.296 | 117.4 | 0.741 | 2.844 | 294.3 | 540.2 | 0.738 | 4.951 | -0.65 | 0.229 | 89.4 | 146.1 | 1.1 | 0.231 |
| 4-1710 | 4-2650 | 0.625 | 296.4 | -18.6 | 1.41 | 1.296 | 117.8 | 0.743 | 2.843 | 293.4 | 541.1 | 0.732 | 4.954 | -0.64 | 0.228 | 86.7 | 145.1 | 1.1 | 0.233 |
| 4-1710 | 4-2670 | 0.633 | 297.1 | -18.6 | 1.38 | 1.296 | 118.2 | 0.745 | 2.842 | 292.4 | 542.0 | 0.725 | 4.960 | -0.63 | 0.228 | 84.1 | 144.3 | 1.2 | 0.234 |
| 4-1710 | 4-2690 | 0.641 | 297.7 | -18.5 | 1.36 | 1.296 | 118.7 | 0.748 | 2.844 | 291.4 | 542.9 | 0.717 | 4.970 | -0.63 | 0.229 | 81.6 | 143.6 | 1.2 | 0.237 |
| 4-1710 | 4-2710 | 0.649 | 298.3 | -18.5 | 1.34 | 1.296 | 119.1 | 0.751 | 2.846 | 290.4 | 543.7 | 0.710 | 4.983 | -0.62 | 0.229 | 79.2 | 143.0 | 1.3 | 0.239 |
| 4-1710 | 4-2730 | 0.658 | 299.0 | -18.5 | 1.32 | 1.296 | 119.7 | 0.754 | 2.850 | 289.3 | 544.4 | 0.702 | 4.999 | -0.61 | 0.230 | 76.8 | 142.5 | 1.3 | 0.243 |
| 4-1710 | 4-2750 | 0.668 | 299.7 | -18.4 | 1.30 | 1.296 | 120.2 | 0.757 | 2.855 | 288.2 | 545.2 | 0.693 | 5.017 | -0.61 | 0.231 | 74.5 | 142.2 | 1.3 | 0.246 |
| 4-1710 | 4-2770 | 0.677 | 300.4 | -18.4 | 1.28 | 1.297 | 120.7 | 0.761 | 2.861 | 287.1 | 545.8 | 0.684 | 5.037 | -0.60 | 0.232 | 72.4 | 142.0 | 1.4 | 0.250 |
| 4-1710 | 4-2790 | 0.688 | 301.1 | -18.3 | 1.26 | 1.297 | 121.3 | 0.765 | 2.867 | 285.9 | 546.5 | 0.675 | 5.060 | -0.60 | 0.234 | 70.3 | 141.9 | 1.4 | 0.254 |
| 4-1710 | 4-2810 | 0.698 | 301.8 | -18.2 | 1.24 | 1.297 | 121.9 | 0.769 | 2.875 | 284.7 | 547.1 | 0.665 | 5.085 | -0.60 | 0.235 | 68.2 | 142.0 | 1.4 | 0.258 |
| 4-1710 | 4-2830 | 0.710 | 302.5 | -18.2 | 1.22 | 1.298 | 122.5 | 0.773 | 2.883 | 283.4 | 547.6 | 0.655 | 5.111 | -0.60 | 0.237 | 66.3 | 142.1 | 1.4 | 0.263 |
| 4-1710 | 4-2850 | 0.721 | 303.2 | -18.1 | 1.20 | 1.298 | 123.2 | 0.777 | 2.892 | 282.1 | 548.2 | 0.644 | 5.140 | -0.59 | 0.239 | 64.4 | 142.4 | 1.4 | 0.267 |
| 4-1710 | 4-2870 | 0.733 | 304.0 | -18.0 | 1.18 | 1.299 | 123.8 | 0.782 | 2.902 | 280.8 | 548.7 | 0.634 | 5.170 | -0.59 | 0.241 | 62.6 | 142.8 | 1.4 | 0.272 |
| 4-1710 | 4-2890 | 0.745 | 304.7 | -17.9 | 1.17 | 1.299 | 124.5 | 0.786 | 2.912 | 279.4 | 549.1 | 0.622 | 5.201 | -0.59 | 0.243 | 60.8 | 143.2 | 1.4 | 0.277 |
| 4-1710 | 4-2910 | 0.758 | 305.5 | -17.8 | 1.15 | 1.300 | 125.2 | 0.791 | 2.922 | 278.0 | 549.6 | 0.611 | 5.234 | -0.59 | 0.245 | 59.1 | 143.7 | 1.4 | 0.282 |
| 4-1710 | 4-2930 | 0.771 | 306.3 | -17.7 | 1.13 | 1.300 | 125.9 | 0.796 | 2.933 | 276.6 | 550.0 | 0.599 | 5.268 | -0.59 | 0.247 | 57.5 | 144.4 | 1.4 | 0.287 |
| 4-1710 | 4-2950 | 0.784 | 307.0 | -17.6 | 1.11 | 1.301 | 126.7 | 0.801 | 2.945 | 275.2 | 550.3 | 0.586 | 5.303 | -0.60 | 0.249 | 55.9 | 145.1 | 1.3 | 0.293 |
| 4-1710 | 4-2970 | 0.798 | 307.8 | -17.5 | 1.09 | 1.301 | 127.4 | 0.806 | 2.956 | 273.7 | 550.7 | 0.574 | 5.339 | -0.60 | 0.251 | 54.4 | 145.8 | 1.3 | 0.298 |
| 4-1710 | 4-2990 | 0.812 | 308.6 | -17.3 | 1.07 | 1.302 | 128.2 | 0.811 | 2.969 | 272.2 | 551.0 | 0.560 | 5.377 | -0.60 | 0.253 | 52.9 | 146.7 | 1.3 | 0.303 |
| 4-1710 | 4-3010 | 0.826 | 309.4 | -17.2 | 1.05 | 1.302 | 129.0 | 0.816 | 2.981 | 270.6 | 551.2 | 0.547 | 5.415 | -0.60 | 0.256 | 51.4 | 147.6 | 1.3 | 0.309 |
| 4-1710 | 4-3030 | 0.841 | 310.2 | -17.1 | 1.03 | 1.303 | 129.8 | 0.822 | 2.994 | 269.1 | 551.5 | 0.533 | 5.455 | -0.61 | 0.258 | 50.0 | 148.5 | 1.2 | 0.314 |
| 4-1710 | 4-3050 | 0.856 | 310.9 | -16.9 | 1.01 | 1.303 | 130.6 | 0.827 | 3.007 | 267.5 | 551.7 | 0.519 | 5.495 | -0.61 | 0.260 | 48.6 | 149.6 | 1.2 | 0.320 |
| 4-1710 | 4-3070 | 0.871 | 311.7 | -16.8 | 0.99 | 1.304 | 131.5 | 0.833 | 3.021 | 265.9 | 551.9 | 0.505 | 5.536 | -0.62 | 0.262 | 47.2 | 150.6 | 1.1 | 0.325 |
| 4-1710 | 4-3090 | 0.887 | 312.5 | -16.6 | 0.97 | 1.304 | 132.3 | 0.838 | 3.035 | 264.3 | 552.0 | 0.491 | 5.578 | -0.62 | 0.264 | 45.9 | 151.7 | 1.1 | 0.331 |
| 4-1710 | 4-3110 | 0.903 | 313.3 | -16.5 | 0.95 | 1.305 | 133.2 | 0.844 | 3.049 | 262.6 | 552.2 | 0.476 | 5.621 | -0.63 | 0.266 | 44.6 | 152.9 | 1.0 | 0.337 |
| 4-1710 | 4-3130 | 0.919 | 314.1 | -16.3 | 0.93 | 1.306 | 134.1 | 0.849 | 3.063 | 260.9 | 552.3 | 0.461 | 5.665 | -0.64 | 0.268 | 43.3 | 154.1 | 1.0 | 0.342 |
| 4-1710 | 4-3150 | 0.935 | 314.9 | -16.1 | 0.91 | 1.306 | 135.0 | 0.855 | 3.077 | 259.2 | 552.3 | 0.446 | 5.709 | -0.65 | 0.271 | 42.0 | 155.4 | 0.9 | 0.348 |
| 4-1710 | 4-3170 | 0.952 | 315.7 | -16.0 | 0.89 | 1.307 | 135.9 | 0.861 | 3.092 | 257.5 | 552.4 | 0.430 | 5.753 | -0.65 | 0.273 | 40.8 | 156.7 | 0.9 | 0.354 |
| 4-1710 | 4-3190 | 0.969 | 316.5 | -15.8 | 0.86 | 1.307 | 136.9 | 0.866 | 3.107 | 255.7 | 552.4 | 0.415 | 5.799 | -0.66 | 0.275 | 39.5 | 158.0 | 0.8 | 0.359 |
| 4-1710 | 4-3210 | 0.986 | 317.3 | -15.6 | 0.84 | 1.308 | 137.8 | 0.872 | 3.122 | 254.0 | 552.4 | 0.399 | 5.845 | -0.67 | 0.277 | 38.3 | 159.4 | 0.8 | 0.365 |
| 4-1710 | 4-3230 | 1.004 | 318.1 | -15.4 | 0.82 | 1.309 | 138.8 | 0.878 | 3.137 | 252.2 | 552.4 | 0.384 | 5.891 | -0.69 | 0.279 | 37.1 | 160.7 | 0.7 | 0.371 |
| 4-1710 | 4-3250 | 1.021 | 318.9 | -15.2 | 0.79 | 1.309 | 139.8 | 0.883 | 3.153 | 250.4 | 552.4 | 0.368 | 5.938 | -0.70 | 0.281 | 35.9 | 162.2 | 0.6 | 0.377 |
| 4-1710 | 4-3270 | 1.039 | 319.7 | -15.0 | 0.77 | 1.310 | 140.8 | 0.889 | 3.168 | 248.5 | 552.3 | 0.352 | 5.985 | -0.71 | 0.283 | 34.8 | 163.6 | 0.6 | 0.382 |
| 4-1710 | 4-3290 | 1.057 | 320.6 | -14.8 | 0.74 | 1.310 | 141.8 | 0.895 | 3.184 | 246.7 | 552.2 | 0.336 | 6.032 | -0.73 | 0.284 | 33.6 | 165.1 | 0.5 | 0.388 |
| 4-1710 | 4-3310 | 1.076 | 321.4 | -14.6 | 0.71 | 1.311 | 142.9 | 0.900 | 3.200 | 244.8 | 552.1 | 0.320 | 6.080 | -0.75 | 0.286 | 32.5 | 166.6 | 0.4 | 0.394 |
| 4-1720 | 4-2120 | 0.734 | 298.1 | -10.9 | 5.73 | 1.427 | 118.1 | 1.00709 | .643 | 304.0 | 493.5 | 0.768 | --- | -4.76 | 0.638 | 157.2 | 171.3 | -1.4 | 0.639 |
| 4-1720 | 4-2140 | 0.701 | 297.7 | -11.9 | 4.98 | 1.408 | 117.1 | 0.96522 | .346 | 304.8 | 496.1 | 0.778 | --- | -4.02 | 0.595 | 155.5 | 171.5 | -1.2 | 0.594 |
| 4-1720 | 4-2160 | 0.672 | 297.2 | -12.7 | 4.43 | 1.392 | 116.2 | 0.92911 | .095 | 305.5 | 498.6 | 0.787 | --- | -3.48 | 0.556 | 153.8 | 171.7 | -1.1 | 0.554 |
| 4-1720 | 4-2180 | 0.647 | 296.9 | -13.3 | 4.01 | 1.378 | 115.3 | 0.898 | 7.780 | 306.2 | 501.1 | 0.795 | --- | -3.07 | 0.520 | 151.9 | 171.7 | -1.0 | 0.518 |
| 4-1720 | 4-2200 | 0.626 | 296.5 | -13.8 | 3.67 | 1.366 | 114.6 | 0.871 | 6.205 | 306.8 | 503.5 | 0.802 | --- | -2.75 | 0.488 | 149.9 | 171.7 | -0.9 | 0.485 |
| 4-1720 | 4-2220 | 0.608 | 296.2 | -14.2 | 3.40 | 1.356 | 114.0 | 0.847 | 5.292 | 307.4 | 505.9 | 0.809 | --- | -2.49 | 0.459 | 147.9 | 171.5 | -0.9 | 0.454 |
| 4-1720 | 4-2240 | 0.592 | 295.9 | -14.6 | 3.18 | 1.347 | 113.4 | 0.827 | 4.700 | 307.9 | 508.2 | 0.814 | --- | -2.28 | 0.433 | 145.7 | 171.2 | -0.8 | 0.427 |
| 4-1720 | 4-2260 | 0.578 | 295.7 | -14.9 | 2.98 | 1.340 | 112.9 | 0.809 | 4.289 | 308.3 | 510.4 | 0.818 | --- | -2.10 | 0.409 | 143.4 | 170.9 | -0.8 | 0.402 |
| 4-1720 | 4-2280 | 0.567 | 295.5 | -15.1 | 2.82 | 1.333 | 112.5 | 0.794 | 3.989 | 308.6 | 512.5 | 0.822 | --- | -1.95 | 0.388 | 141.1 | 170.4 | -0.7 | 0.379 |
| 4-1720 | 4-2300 | 0.557 | 295.3 | -15.4 | 2.68 | 1.328 | 112.2 | 0.781 | 3.763 | 308.9 | 514.6 | 0.825 | --- | -1.82 | 0.368 | 138.6 | 169.8 | -0.7 | 0.358 |
| 4-1720 | 4-2320 | 0.549 | 295.2 | -15.6 | 2.56 | 1.323 | 111.9 | 0.769 | 3.587 | 309.1 | 516.6 | 0.828 | --- | -1.71 | 0.351 | 136.1 | 169.1 | -0.6 | 0.339 |
| 4-1720 | 4-2340 | 0.542 | 295.2 | -15.8 | 2.45 | 1.318 | 111.7 | 0.759 | 3.449 | 309.2 | 518.5 | 0.830 | --- | -1.61 | 0.335 | 133.5 | 168.2 | -0.6 | 0.322 |
| 4-1720 | 4-2360 | 0.537 | 295.2 | -16.0 | 2.35 | 1.315 | 111.5 | 0.751 | 3.338 | 309.2 | 520.4 | 0.831 | --- | -1.53 | 0.320 | 130.8 | 167.3 | -0.5 | 0.307 |
| 4-1720 | 4-2380 | 0.532 | 295.3 | -16.1 | 2.26 | 1.312 | 111.4 | 0.744 | 3.248 | 309.2 | 522.2 | 0.831 | --- | -1.45 | 0.308 | 128.0 | 166.2 | -0.5 | 0.293 |
| 4-1720 | 4-2400 | 0.529 | 295.4 | -16.3 | 2.18 | 1.309 | 111.3 | 0.738 | 3.175 | 309.1 | 523.9 | 0.832 | --- | -1.38 | 0.296 | 125.2 | 165.0 | -0.4 | 0.281 |
| 4-1720 | 4-2420 | 0.527 | 295.6 | -16.4 | 2.10 | 1.307 | 111.3 | 0.733 | 3.114 | 308.9 | 525.5 | 0.831 | --- | -1.32 | 0.286 | 122.3 | 163.7 | -0.3 | 0.270 |
| 4-1720 | 4-2440 | 0.526 | 295.8 | -16.5 | 2.03 | 1.305 | 111.4 | 0.729 | 3.065 | 308.7 | 527.1 | 0.830 | --- | -1.27 | 0.277 | 119.4 | 162.4 | -0.3 | 0.260 |
| 4-1720 | 4-2460 | 0.526 | 296.1 | -16.7 | 1.97 | 1.303 | 111.4 | 0.726 | 3.024 | 308.4 | 528.6 | 0.829 | --- | -1.22 | 0.269 | 116.4 | 161.0 | -0.2 | 0.252 |
| 4-1720 | 4-2480 | 0.526 | 296.4 | -16.7 | 1.91 | 1.301 | 111.5 | 0.723 | 2.990 | 308.0 | 530.1 | 0.827 | --- | -1.18 | 0.262 | 113.4 | 159.5 | -0.1 | 0.245 |
| 4-1720 | 4-2500 | 0.528 | 296.8 | -16.8 | 1.86 | 1.300 | 111.7 | 0.721 | 2.962 | 307.6 | 531.5 | 0.825 | --- | -1.14 | 0.257 | 110.5 | 158.0 | 0.0 | 0.239 |
| 4-1720 | 4-2520 | 0.530 | 297.2 | -16.9 | 1.81 | 1.299 | 111.8 | 0.720 | 2.939 | 307.1 | 532.8 | 0.822 | --- | -1.10 | 0.252 | 107.5 | 156.5 | 0.1 | 0.234 |
| 4-1720 | 4-2540 | 0.533 | 297.6 | -17.0 | 1.76 | 1.298 | 112.0 | 0.719 | 2.920 | 306.5 | 534.1 | 0.819 | --- | -1.07 | 0.248 | 104.6 | 155.0 | 0.2 | 0.230 |
| 4-1720 | 4-2560 | 0.536 | 298.1 | -17.0 | 1.72 | 1.298 | 112.3 | 0.719 | 2.905 | 305.9 | 535.3 | 0.816 | --- | -1.04 | 0.244 | 101.7 | 153.5 | 0.3 | 0.227 |
| 4-1720 | 4-2580 | 0.540 | 298.6 | -17.1 | 1.67 | 1.297 | 112.5 | 0.719 | 2.894 | 305.3 | 536.5 | 0.812 | --- | -1.01 | 0.242 | 98.9 | 152.1 | 0.4 | 0.225 |
| 4-1720 | 4-2600 | 0.545 | 299.2 | -17.1 | 1.63 | 1.297 | 112.8 | 0.720 | 2.885 | 304.6 | 537.6 | 0.808 | --- | -0.99 | 0.239 | 96.1 | 150.7 | 0.4 | 0.224 |
| 4-1720 | 4-2620 | 0.550 | 299.7 | -17.1 | 1.59 | 1.296 | 113.2 | 0.721 | 2.879 | 303.8 | 538.7 | 0.803 | --- | -0.96 | 0.238 | 93.4 | 149.5 | 0.5 | 0.223 |
| 4-1720 | 4-2640 | 0.556 | 300.3 | -17.1 | 1.56 | 1.296 | 113.5 | 0.722 | 2.874 | 303.0 | 539.7 | 0.798 | --- | -0.94 | 0.237 | 90.8 | 148.3 | 0.6 | 0.223 |
| 4-1720 | 4-2660 | 0.562 | 301.0 | -17.1 | 1.52 | 1.296 | 113.9 | 0.724 | 2.872 | 302.1 | 540.7 | 0.792 | 4.952 | -0.92 | 0.236 | 88.2 | 147.3 | 0.7 | 0.224 |
| 4-1720 | 4-2680 | 0.569 | 301.6 | -17.1 | 1.49 | 1.296 | 114.3 | 0.726 | 2.871 | 301.2 | 541.6 | 0.786 | 4.956 | -0.91 | 0.236 | 85.8 | 146.4 | 0.8 | 0.226 |
| 4-1720 | 4-2700 | 0.576 | 302.3 | -17.1 | 1.46 | 1.296 | 114.7 | 0.728 | 2.872 | 300.3 | 542.5 | 0.780 | 4.964 | -0.89 | 0.236 | 83.4 | 145.6 | 0.8 | 0.228 |
| 4-1720 | 4-2720 | 0.583 | 303.0 | -17.1 | 1.42 | 1.296 | 115.2 | 0.731 | 2.875 | 299.3 | 543.3 | 0.774 | 4.976 | -0.88 | 0.236 | 81.1 | 145.0 | 0.9 | 0.230 |
| 4-1720 | 4-2740 | 0.591 | 303.7 | -17.0 | 1.39 | 1.296 | 115.6 | 0.734 | 2.878 | 298.3 | 544.1 | 0.766 | 4.989 | -0.86 | 0.237 | 78.8 | 144.4 | 0.9 | 0.233 |
| 4-1720 | 4-2760 | 0.600 | 304.4 | -17.0 | 1.36 | 1.297 | 116.1 | 0.737 | 2.882 | 297.2 | 544.9 | 0.759 | 5.006 | -0.85 | 0.238 | 76.7 | 144.0 | 1.0 | 0.236 |
| 4-1720 | 4-2780 | 0.609 | 305.1 | -16.9 | 1.33 | 1.297 | 116.6 | 0.740 | 2.888 | 296.1 | 545.6 | 0.751 | 5.025 | -0.84 | 0.239 | 74.6 | 143.8 | 1.0 | 0.239 |
| 4-1720 | 4-2800 | 0.618 | 305.9 | -16.9 | 1.31 | 1.297 | 117.2 | 0.743 | 2.894 | 295.0 | 546.3 | 0.743 | 5.045 | -0.83 | 0.241 | 72.6 | 143.6 | 1.0 | 0.243 |
| 4-1720 | 4-2820 | 0.628 | 306.6 | -16.8 | 1.28 | 1.297 | 117.7 | 0.747 | 2.901 | 293.8 | 547.0 | 0.735 | 5.068 | -0.82 | 0.242 | 70.7 | 143.6 | 1.1 | 0.246 |
| 4-1720 | 4-2840 | 0.638 | 307.4 | -16.7 | 1.25 | 1.298 | 118.3 | 0.751 | 2.909 | 292.6 | 547.6 | 0.726 | 5.093 | -0.82 | 0.243 | 68.9 | 143.7 | 1.1 | 0.251 |
| 4-1720 | 4-2860 | 0.649 | 308.2 | -16.6 | 1.22 | 1.298 | 118.9 | 0.755 | 2.918 | 291.3 | 548.2 | 0.716 | 5.120 | -0.81 | 0.245 | 67.1 | 143.9 | 1.1 | 0.255 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1720 | 4-2880 | 0.660 | 308.9 | -16.5 | 1.20 | 1.299 | 119.5 | 0.759 | 2.927 | 290.0 | 548.7 | 0.707 | 5.148 | -0.80 | 0.247 | 65.3 | 144.1 | 1.1 | 0.259 |
| 4-1720 | 4-2900 | 0.671 | 309.7 | -16.4 | 1.17 | 1.299 | 120.1 | 0.763 | 2.937 | 288.7 | 549.2 | 0.697 | 5.177 | -0.80 | 0.249 | 63.7 | 144.5 | 1.1 | 0.264 |
| 4-1720 | 4-2920 | 0.683 | 310.5 | -16.3 | 1.15 | 1.300 | 120.8 | 0.767 | 2.947 | 287.4 | 549.7 | 0.686 | 5.208 | -0.80 | 0.251 | 62.1 | 145.0 | 1.1 | 0.268 |
| 4-1720 | 4-2940 | 0.695 | 311.3 | -16.2 | 1.12 | 1.300 | 121.4 | 0.772 | 2.958 | 286.0 | 550.2 | 0.675 | 5.240 | -0.79 | 0.253 | 60.5 | 145.5 | 1.1 | 0.273 |
| 4-1720 | 4-2960 | 0.707 | 312.1 | -16.1 | 1.10 | 1.300 | 122.1 | 0.776 | 2.969 | 284.6 | 550.6 | 0.664 | 5.274 | -0.79 | 0.254 | 59.0 | 146.2 | 1.1 | 0.278 |
| 4-1720 | 4-2980 | 0.719 | 312.9 | -15.9 | 1.07 | 1.301 | 122.8 | 0.781 | 2.981 | 283.2 | 551.0 | 0.653 | 5.308 | -0.79 | 0.256 | 57.5 | 146.9 | 1.1 | 0.283 |
| 4-1720 | 4-3000 | 0.732 | 313.7 | -15.8 | 1.05 | 1.301 | 123.5 | 0.786 | 2.992 | 281.8 | 551.3 | 0.641 | 5.344 | -0.79 | 0.258 | 56.1 | 147.6 | 1.1 | 0.288 |
| 4-1720 | 4-3020 | 0.746 | 314.5 | -15.6 | 1.02 | 1.302 | 124.3 | 0.791 | 3.005 | 280.3 | 551.7 | 0.629 | 5.381 | -0.79 | 0.260 | 54.7 | 148.5 | 1.0 | 0.293 |
| 4-1720 | 4-3040 | 0.759 | 315.3 | -15.5 | 1.00 | 1.303 | 125.0 | 0.796 | 3.017 | 278.8 | 552.0 | 0.616 | 5.419 | -0.79 | 0.262 | 53.3 | 149.4 | 1.0 | 0.298 |
| 4-1720 | 4-3060 | 0.773 | 316.1 | -15.3 | 0.97 | 1.303 | 125.8 | 0.801 | 3.030 | 277.3 | 552.2 | 0.603 | 5.457 | -0.79 | 0.264 | 52.0 | 150.3 | 1.0 | 0.303 |
| 4-1720 | 4-3080 | 0.787 | 316.9 | -15.2 | 0.95 | 1.304 | 126.6 | 0.806 | 3.043 | 275.7 | 552.5 | 0.590 | 5.497 | -0.79 | 0.266 | 50.7 | 151.3 | 0.9 | 0.309 |
| 4-1720 | 4-3100 | 0.802 | 317.7 | -15.0 | 0.92 | 1.304 | 127.4 | 0.811 | 3.057 | 274.2 | 552.7 | 0.577 | 5.537 | -0.80 | 0.268 | 49.5 | 152.4 | 0.9 | 0.314 |
| 4-1720 | 4-3120 | 0.817 | 318.6 | -14.8 | 0.90 | 1.305 | 128.2 | 0.817 | 3.071 | 272.6 | 552.9 | 0.563 | 5.578 | -0.80 | 0.270 | 48.2 | 153.5 | 0.9 | 0.319 |
| 4-1720 | 4-3140 | 0.832 | 319.4 | -14.7 | 0.87 | 1.305 | 129.0 | 0.822 | 3.084 | 271.0 | 553.1 | 0.549 | 5.620 | -0.81 | 0.272 | 47.0 | 154.7 | 0.8 | 0.324 |
| 4-1720 | 4-3160 | 0.847 | 320.2 | -14.5 | 0.85 | 1.306 | 129.9 | 0.828 | 3.099 | 269.3 | 553.2 | 0.534 | 5.663 | -0.81 | 0.274 | 45.8 | 155.9 | 0.8 | 0.330 |
| 4-1720 | 4-3180 | 0.863 | 321.0 | -14.3 | 0.82 | 1.306 | 130.8 | 0.833 | 3.113 | 267.7 | 553.3 | 0.520 | 5.706 | -0.82 | 0.276 | 44.6 | 157.1 | 0.7 | 0.335 |
| 4-1720 | 4-3200 | 0.879 | 321.8 | -14.1 | 0.79 | 1.307 | 131.6 | 0.839 | 3.127 | 266.0 | 553.4 | 0.505 | 5.750 | -0.83 | 0.278 | 43.5 | 158.4 | 0.7 | 0.340 |
| 4-1720 | 4-3220 | 0.895 | 322.6 | -13.9 | 0.77 | 1.308 | 132.5 | 0.844 | 3.142 | 264.3 | 553.5 | 0.490 | 5.795 | -0.84 | 0.280 | 42.3 | 159.7 | 0.6 | 0.346 |
| 4-1720 | 4-3240 | 0.911 | 323.4 | -13.7 | 0.74 | 1.308 | 133.4 | 0.850 | 3.157 | 262.6 | 553.5 | 0.474 | 5.840 | -0.84 | 0.282 | 41.2 | 161.0 | 0.6 | 0.351 |
| 4-1720 | 4-3260 | 0.928 | 324.2 | -13.5 | 0.71 | 1.309 | 134.4 | 0.855 | 3.172 | 260.8 | 553.5 | 0.459 | 5.885 | -0.86 | 0.284 | 40.1 | 162.4 | 0.5 | 0.356 |
| 4-1720 | 4-3280 | 0.945 | 325.0 | -13.3 | 0.68 | 1.309 | 135.3 | 0.861 | 3.187 | 259.1 | 553.5 | 0.443 | 5.931 | -0.87 | 0.285 | 39.0 | 163.8 | 0.4 | 0.362 |
| 4-1720 | 4-3300 | 0.962 | 325.8 | -13.0 | 0.65 | 1.310 | 136.2 | 0.866 | 3.203 | 257.3 | 553.5 | 0.428 | 5.978 | -0.88 | 0.287 | 37.9 | 165.2 | 0.4 | 0.367 |
| 4-1720 | 4-3320 | 0.979 | 326.6 | -12.8 | 0.62 | 1.310 | 137.2 | 0.872 | 3.218 | 255.5 | 553.5 | 0.412 | 6.025 | -0.89 | 0.289 | 36.8 | 166.6 | 0.3 | 0.372 |
| 4-1730 | 4-2150 | 0.813 | 302.7 | 24.5 | 25.57 | 1.408 | 113.5 | 0.964 | 23.259 | 312.2 | 494.5 | 0.829 | --- | -24.71 | 0.596 | 154.8 | 170.6 | -9.6 | 0.607 |
| 4-1730 | 4-2170 | 0.676 | 300.0 | 9.1 | 14.78 | 1.391 | 112.5 | 0.926 | 11.357 | 313.1 | 497.1 | 0.837 | --- | -13.92 | 0.558 | 153.0 | 172.3 | -5.9 | 0.555 |
| 4-1730 | 4-2190 | 0.622 | 299.5 | 1.7 | 10.47 | 1.378 | 111.7 | 0.893 | 7.926 | 313.9 | 499.6 | 0.845 | --- | -9.63 | 0.523 | 151.1 | 172.8 | -4.3 | 0.516 |
| 4-1730 | 4-2210 | 0.589 | 299.2 | -2.4 | 8.17 | 1.366 | 111.0 | 0.865 | 6.306 | 314.6 | 502.1 | 0.851 | --- | -7.35 | 0.491 | 149.1 | 172.9 | -3.5 | 0.482 |
| 4-1730 | 4-2230 | 0.564 | 298.9 | -5.1 | 6.75 | 1.356 | 110.3 | 0.840 | 5.370 | 315.2 | 504.5 | 0.857 | --- | -5.94 | 0.463 | 147.1 | 172.9 | -2.9 | 0.452 |
| 4-1730 | 4-2250 | 0.545 | 298.7 | -7.0 | 5.78 | 1.347 | 109.8 | 0.819 | 4.765 | 315.8 | 506.9 | 0.862 | --- | -4.99 | 0.437 | 144.9 | 172.7 | -2.6 | 0.424 |
| 4-1730 | 4-2270 | 0.530 | 298.5 | -8.4 | 5.08 | 1.339 | 109.3 | 0.801 | 4.345 | 316.3 | 509.2 | 0.866 | --- | -4.30 | 0.413 | 142.7 | 172.4 | -2.3 | 0.399 |
| 4-1730 | 4-2290 | 0.517 | 298.3 | -9.5 | 4.55 | 1.333 | 108.9 | 0.785 | 4.039 | 316.7 | 511.4 | 0.870 | --- | -3.78 | 0.392 | 140.4 | 171.9 | -2.1 | 0.376 |
| 4-1730 | 4-2310 | 0.506 | 298.2 | -10.4 | 4.13 | 1.327 | 108.6 | 0.771 | 3.809 | 317.0 | 513.5 | 0.872 | --- | -3.38 | 0.373 | 138.0 | 171.4 | -1.9 | 0.355 |
| 4-1730 | 4-2330 | 0.497 | 298.1 | -11.2 | 3.79 | 1.322 | 108.3 | 0.759 | 3.630 | 317.2 | 515.5 | 0.875 | --- | -3.05 | 0.355 | 135.5 | 170.7 | -1.8 | 0.336 |
| 4-1730 | 4-2350 | 0.490 | 298.1 | -11.8 | 3.50 | 1.318 | 108.1 | 0.749 | 3.489 | 317.4 | 517.5 | 0.876 | --- | -2.79 | 0.340 | 132.9 | 169.9 | -1.6 | 0.319 |
| 4-1730 | 4-2370 | 0.484 | 298.1 | -12.3 | 3.27 | 1.315 | 107.9 | 0.740 | 3.376 | 317.5 | 519.4 | 0.878 | --- | -2.57 | 0.326 | 130.3 | 169.0 | -1.5 | 0.304 |
| 4-1730 | 4-2390 | 0.480 | 298.2 | -12.8 | 3.07 | 1.311 | 107.8 | 0.733 | 3.284 | 317.5 | 521.3 | 0.878 | --- | -2.38 | 0.313 | 127.5 | 168.0 | -1.4 | 0.290 |
| 4-1730 | 4-2410 | 0.476 | 298.3 | -13.2 | 2.89 | 1.309 | 107.7 | 0.726 | 3.209 | 317.4 | 523.0 | 0.879 | --- | -2.22 | 0.302 | 124.8 | 166.9 | -1.3 | 0.277 |
| 4-1730 | 4-2430 | 0.474 | 298.5 | -13.5 | 2.74 | 1.306 | 107.7 | 0.721 | 3.148 | 317.3 | 524.7 | 0.878 | --- | -2.08 | 0.292 | 122.0 | 165.6 | -1.2 | 0.266 |
| 4-1730 | 4-2450 | 0.472 | 298.8 | -13.8 | 2.60 | 1.304 | 107.7 | 0.717 | 3.097 | 317.1 | 526.3 | 0.878 | --- | -1.97 | 0.283 | 119.1 | 164.3 | -1.1 | 0.257 |
| 4-1730 | 4-2470 | 0.472 | 299.1 | -14.1 | 2.48 | 1.303 | 107.8 | 0.713 | 3.055 | 316.8 | 527.9 | 0.877 | --- | -1.86 | 0.276 | 116.3 | 162.9 | -1.0 | 0.248 |
| 4-1730 | 4-2490 | 0.472 | 299.5 | -14.3 | 2.37 | 1.301 | 107.9 | 0.710 | 3.020 | 316.5 | 529.4 | 0.875 | --- | -1.77 | 0.269 | 113.4 | 161.5 | -0.8 | 0.241 |
| 4-1730 | 4-2510 | 0.473 | 299.9 | -14.5 | 2.27 | 1.300 | 108.0 | 0.708 | 2.992 | 316.1 | 530.8 | 0.874 | --- | -1.69 | 0.263 | 110.6 | 160.0 | -0.7 | 0.234 |
| 4-1730 | 4-2530 | 0.474 | 300.3 | -14.7 | 2.18 | 1.299 | 108.2 | 0.706 | 2.968 | 315.6 | 532.2 | 0.872 | --- | -1.61 | 0.258 | 107.8 | 158.5 | -0.6 | 0.229 |
| 4-1730 | 4-2550 | 0.477 | 300.8 | -14.9 | 2.10 | 1.298 | 108.4 | 0.705 | 2.949 | 315.1 | 533.5 | 0.869 | --- | -1.55 | 0.254 | 105.0 | 157.0 | -0.5 | 0.225 |
| 4-1730 | 4-2570 | 0.479 | 301.3 | -15.0 | 2.02 | 1.297 | 108.6 | 0.705 | 2.934 | 314.6 | 534.8 | 0.866 | --- | -1.49 | 0.251 | 102.2 | 155.5 | -0.4 | 0.222 |
| 4-1730 | 4-2590 | 0.483 | 301.9 | -15.1 | 1.95 | 1.297 | 108.8 | 0.705 | 2.922 | 313.9 | 536.0 | 0.863 | --- | -1.43 | 0.248 | 99.5 | 154.1 | -0.3 | 0.220 |
| 4-1730 | 4-2610 | 0.487 | 302.5 | -15.2 | 1.88 | 1.297 | 109.1 | 0.705 | 2.913 | 313.2 | 537.1 | 0.859 | --- | -1.38 | 0.246 | 96.9 | 152.8 | -0.2 | 0.218 |
| 4-1730 | 4-2630 | 0.491 | 303.2 | -15.3 | 1.82 | 1.296 | 109.4 | 0.706 | 2.906 | 312.5 | 538.2 | 0.856 | --- | -1.34 | 0.245 | 94.3 | 151.5 | -0.0 | 0.217 |
| 4-1730 | 4-2650 | 0.496 | 303.8 | -15.4 | 1.76 | 1.296 | 109.7 | 0.707 | 2.902 | 311.7 | 539.3 | 0.851 | --- | -1.30 | 0.244 | 91.8 | 150.3 | 0.1 | 0.217 |
| 4-1730 | 4-2670 | 0.502 | 304.5 | -15.4 | 1.71 | 1.296 | 110.1 | 0.708 | 2.899 | 310.9 | 540.3 | 0.847 | 4.951 | -1.26 | 0.243 | 89.4 | 149.2 | 0.2 | 0.217 |
| 4-1730 | 4-2690 | 0.508 | 305.2 | -15.4 | 1.66 | 1.296 | 110.5 | 0.710 | 2.898 | 310.0 | 541.2 | 0.842 | 4.954 | -1.23 | 0.243 | 87.0 | 148.3 | 0.2 | 0.218 |
| 4-1730 | 4-2710 | 0.514 | 306.0 | -15.4 | 1.61 | 1.296 | 110.8 | 0.711 | 2.899 | 309.1 | 542.2 | 0.837 | 4.961 | -1.20 | 0.243 | 84.7 | 147.5 | 0.3 | 0.220 |
| 4-1730 | 4-2730 | 0.521 | 306.7 | -15.4 | 1.56 | 1.296 | 111.3 | 0.714 | 2.901 | 308.2 | 543.0 | 0.831 | 4.970 | -1.17 | 0.243 | 82.5 | 146.8 | 0.4 | 0.222 |
| 4-1730 | 4-2750 | 0.528 | 307.5 | -15.4 | 1.52 | 1.296 | 111.7 | 0.716 | 2.904 | 307.2 | 543.9 | 0.825 | 4.983 | -1.15 | 0.244 | 80.4 | 146.2 | 0.5 | 0.224 |
| 4-1730 | 4-2770 | 0.536 | 308.3 | -15.4 | 1.47 | 1.296 | 112.2 | 0.718 | 2.908 | 306.2 | 544.7 | 0.819 | 4.998 | -1.12 | 0.244 | 78.4 | 145.7 | 0.5 | 0.227 |
| 4-1730 | 4-2790 | 0.544 | 309.1 | -15.3 | 1.43 | 1.297 | 112.6 | 0.721 | 2.914 | 305.1 | 545.4 | 0.812 | 5.015 | -1.10 | 0.245 | 76.4 | 145.4 | 0.6 | 0.230 |
| 4-1730 | 4-2810 | 0.553 | 309.9 | -15.3 | 1.39 | 1.297 | 113.1 | 0.724 | 2.920 | 304.0 | 546.1 | 0.805 | 5.034 | -1.08 | 0.247 | 74.5 | 145.2 | 0.6 | 0.233 |
| 4-1730 | 4-2830 | 0.561 | 310.7 | -15.2 | 1.35 | 1.297 | 113.7 | 0.727 | 2.927 | 302.8 | 546.8 | 0.798 | 5.056 | -1.07 | 0.248 | 72.7 | 145.1 | 0.7 | 0.237 |
| 4-1730 | 4-2850 | 0.571 | 311.6 | -15.1 | 1.32 | 1.297 | 114.2 | 0.731 | 2.934 | 301.7 | 547.5 | 0.790 | 5.079 | -1.05 | 0.249 | 70.9 | 145.1 | 0.7 | 0.240 |
| 4-1730 | 4-2870 | 0.580 | 312.4 | -15.1 | 1.28 | 1.298 | 114.8 | 0.734 | 2.943 | 300.5 | 548.1 | 0.782 | 5.104 | -1.04 | 0.251 | 69.2 | 145.3 | 0.8 | 0.244 |
| 4-1730 | 4-2890 | 0.590 | 313.2 | -15.0 | 1.24 | 1.298 | 115.3 | 0.738 | 2.952 | 299.2 | 548.7 | 0.773 | 5.130 | -1.02 | 0.252 | 67.6 | 145.5 | 0.8 | 0.248 |
| 4-1730 | 4-2910 | 0.601 | 314.1 | -14.9 | 1.21 | 1.299 | 115.9 | 0.742 | 2.961 | 298.0 | 549.3 | 0.765 | 5.158 | -1.01 | 0.254 | 66.0 | 145.8 | 0.8 | 0.253 |
| 4-1730 | 4-2930 | 0.611 | 314.9 | -14.7 | 1.18 | 1.299 | 116.5 | 0.746 | 2.971 | 296.7 | 549.8 | 0.756 | 5.187 | -1.00 | 0.256 | 64.5 | 146.2 | 0.8 | 0.257 |
| 4-1730 | 4-2950 | 0.622 | 315.8 | -14.6 | 1.14 | 1.300 | 117.2 | 0.750 | 2.982 | 295.4 | 550.3 | 0.746 | 5.218 | -0.99 | 0.258 | 63.0 | 146.7 | 0.8 | 0.261 |
| 4-1730 | 4-2970 | 0.634 | 316.6 | -14.5 | 1.11 | 1.300 | 117.8 | 0.754 | 2.993 | 294.0 | 550.7 | 0.736 | 5.250 | -0.99 | 0.259 | 61.6 | 147.3 | 0.8 | 0.266 |
| 4-1730 | 4-2990 | 0.645 | 317.5 | -14.3 | 1.08 | 1.301 | 118.4 | 0.758 | 3.004 | 292.6 | 551.2 | 0.726 | 5.282 | -0.98 | 0.261 | 60.2 | 147.9 | 0.8 | 0.270 |
| 4-1730 | 4-3010 | 0.657 | 318.3 | -14.2 | 1.05 | 1.301 | 119.1 | 0.763 | 3.016 | 291.2 | 551.6 | 0.715 | 5.316 | -0.97 | 0.263 | 58.8 | 148.7 | 0.8 | 0.275 |
| 4-1730 | 4-3030 | 0.669 | 319.2 | -14.0 | 1.02 | 1.302 | 119.8 | 0.767 | 3.028 | 289.8 | 552.0 | 0.705 | 5.352 | -0.97 | 0.265 | 57.5 | 149.4 | 0.8 | 0.280 |
| 4-1730 | 4-3050 | 0.682 | 320.0 | -13.9 | 0.99 | 1.302 | 120.5 | 0.772 | 3.040 | 288.4 | 552.3 | 0.693 | 5.388 | -0.96 | 0.267 | 56.2 | 150.3 | 0.8 | 0.284 |
| 4-1730 | 4-3070 | 0.695 | 320.9 | -13.7 | 0.96 | 1.303 | 121.2 | 0.777 | 3.053 | 286.9 | 552.6 | 0.682 | 5.425 | -0.96 | 0.269 | 54.9 | 151.2 | 0.7 | 0.289 |
| 4-1730 | 4-3090 | 0.708 | 321.7 | -13.5 | 0.93 | 1.303 | 122.0 | 0.782 | 3.066 | 285.4 | 552.9 | 0.670 | 5.462 | -0.96 | 0.271 | 53.7 | 152.1 | 0.7 | 0.294 |
| 4-1730 | 4-3110 | 0.721 | 322.5 | -13.3 | 0.90 | 1.304 | 122.7 | 0.786 | 3.079 | 283.9 | 553.2 | 0.658 | 5.501 | -0.96 | 0.272 | 52.5 | 153.2 | 0.7 | 0.299 |
| 4-1730 | 4-3130 | 0.735 | 323.4 | -13.1 | 0.87 | 1.304 | 123.5 | 0.791 | 3.093 | 282.4 | 553.5 | 0.645 | 5.541 | -0.96 | 0.274 | 51.3 | 154.2 | 0.7 | 0.304 |
| 4-1730 | 4-3150 | 0.749 | 324.2 | -13.0 | 0.84 | 1.305 | 124.2 | 0.797 | 3.106 | 280.8 | 553.7 | 0.632 | 5.581 | -0.96 | 0.276 | 50.2 | 155.3 | 0.6 | 0.309 |
| 4-1730 | 4-3170 | 0.764 | 325.1 | -12.8 | 0.81 | 1.305 | 125.0 | 0.802 | 3.120 | 279.2 | 553.9 | 0.619 | 5.622 | -0.96 | 0.278 | 49.1 | 156.4 | 0.6 | 0.314 |
| 4-1730 | 4-3190 | 0.778 | 325.9 | -12.5 | 0.78 | 1.306 | 125.8 | 0.807 | 3.134 | 277.6 | 554.1 | 0.605 | 5.664 | -0.97 | 0.280 | 48.0 | 157.6 | 0.5 | 0.318 |
| 4-1730 | 4-3210 | 0.793 | 326.7 | -12.3 | 0.75 | 1.306 | 126.7 | 0.812 | 3.149 | 276.0 | 554.2 | 0.592 | 5.706 | -0.97 | 0.282 | 46.9 | 158.8 | 0.5 | 0.323 |
| 4-1730 | 4-3230 | 0.808 | 327.5 | -12.1 | 0.72 | 1.307 | 127.5 | 0.817 | 3.163 | 274.4 | 554.3 | 0.577 | 5.749 | -0.97 | 0.283 | 45.8 | 160.1 | 0.4 | 0.328 |
| 4-1730 | 4-3250 | 0.823 | 328.4 | -11.9 | 0.69 | 1.308 | 128.3 | 0.823 | 3.178 | 272.7 | 554.4 | 0.563 | 5.792 | -0.98 | 0.285 | 44.7 | 161.4 | 0.4 | 0.333 |
| 4-1730 | 4-3270 | 0.839 | 329.2 | -11.7 | 0.66 | 1.308 | 129.2 | 0.828 | 3.193 | 271.0 | 554.5 | 0.549 | 5.837 | -0.99 | 0.287 | 43.7 | 162.7 | 0.3 | 0.338 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1730 | 4-3290 | 0.855 | 330.0 | -11.5 | 0.62 | 1.309 | 130.1 | 0.834 | 3.207 | 269.3 | 554.6 | 0.534 | 5.881 | -0.99 | 0.288 | 42.6 | 164.0 | 0.3 | 0.343 |
| 4-1730 | 4-3310 | 0.871 | 330.8 | -11.2 | 0.59 | 1.309 | 131.0 | 0.839 | 3.223 | 267.6 | 554.6 | 0.519 | 5.926 | -1.00 | 0.290 | 41.6 | 165.4 | 0.2 | 0.348 |
| 4-1730 | 4-3330 | 0.887 | 331.6 | -11.0 | 0.56 | 1.310 | 131.9 | 0.845 | 3.238 | 265.9 | 554.6 | 0.503 | 5.972 | -1.01 | 0.292 | 40.6 | 166.8 | 0.2 | 0.353 |
| 4-1740 | 4-2120 | 0.648 | 311.6 | -29.0 | -5.11 | 1.446 | 111.5 | 1.06213.905 | | 318.2 | 487.5 | 0.861 | --- | 5.92 | 0.686 | 157.2 | 174.2 | 2.6 | 0.676 |
| 4-1740 | 4-2140 | 0.619 | 311.9 | -32.1 | -6.30 | 1.424 | 110.4 | 1.00812.370 | | 319.3 | 490.3 | 0.870 | --- | 7.09 | 0.638 | 155.6 | 174.4 | 3.3 | 0.628 |
| 4-1740 | 4-2160 | 0.599 | 313.1 | -36.4 | -8.06 | 1.406 | 109.5 | 0.96222.812 | | 320.2 | 493.1 | 0.878 | --- | 8.83 | 0.596 | 153.9 | 174.5 | 4.2 | 0.585 |
| 4-1740 | 4-2180 | 0.593 | 316.1 | -42.9 | -10.97 | 1.390 | 108.6 | 0.92211.324 | | 321.2 | 495.8 | 0.885 | --- | 11.72 | 0.558 | 152.2 | 174.5 | 5.8 | 0.548 |
| 4-1740 | 4-2200 | 0.624 | 325.4 | -53.4 | -16.65 | 1.376 | 107.8 | 0.888 | 7.940 | 322.1 | 498.4 | 0.892 | --- | 17.39 | 0.523 | 150.3 | 174.0 | 8.9 | 0.518 |
| 4-1740 | 4-2220 | 0.810 | 7.6 | -64.6 | -31.91 | 1.364 | 107.1 | 0.858 | 6.331 | 323.0 | 500.9 | 0.898 | --- | 32.63 | 0.492 | 148.3 | 171.3 | 16.3 | 0.512 |
| 4-1740 | 4-2240 | 1.644 | 9.9 | 63.0 | 86.46 | 1.354 | 107.0 | 0.834 | 5.398 | 322.4 | 503.6 | 0.897 | --- | -85.76 | 0.464 | 146.4 | 152.3 | -22.0 | 0.645 |
| 4-1740 | 4-2260 | 0.777 | 303.5 | 41.5 | 30.96 | 1.346 | 106.2 | 0.811 | 4.794 | 323.7 | 505.9 | 0.904 | --- | -30.27 | 0.438 | 144.2 | 169.4 | -16.0 | 0.455 |
| 4-1740 | 4-2280 | 0.580 | 299.1 | 21.5 | 17.28 | 1.338 | 105.7 | 0.792 | 4.374 | 324.4 | 508.2 | 0.908 | --- | -16.61 | 0.415 | 142.0 | 172.1 | -10.0 | 0.406 |
| 4-1740 | 4-2300 | 0.515 | 298.6 | 11.0 | 11.98 | 1.332 | 105.3 | 0.776 | 4.068 | 324.9 | 510.5 | 0.911 | --- | -11.33 | 0.394 | 139.7 | 172.5 | -7.3 | 0.377 |
| 4-1740 | 4-2320 | 0.484 | 298.6 | 4.8 | 9.21 | 1.326 | 104.9 | 0.762 | 3.836 | 325.3 | 512.7 | 0.914 | --- | -8.58 | 0.375 | 137.3 | 172.3 | -5.8 | 0.354 |
| 4-1740 | 4-2340 | 0.465 | 298.7 | 0.7 | 7.52 | 1.321 | 104.7 | 0.750 | 3.657 | 325.6 | 514.8 | 0.916 | --- | -6.90 | 0.358 | 134.8 | 171.8 | -4.8 | 0.334 |
| 4-1740 | 4-2360 | 0.452 | 298.8 | -2.2 | 6.37 | 1.317 | 104.5 | 0.739 | 3.516 | 325.8 | 516.8 | 0.917 | --- | -5.78 | 0.343 | 132.3 | 171.1 | -4.2 | 0.317 |
| 4-1740 | 4-2380 | 0.442 | 298.9 | -4.3 | 5.55 | 1.314 | 104.3 | 0.730 | 3.402 | 325.9 | 518.7 | 0.919 | --- | -4.97 | 0.329 | 129.6 | 170.3 | -3.7 | 0.301 |
| 4-1740 | 4-2400 | 0.436 | 299.1 | -6.0 | 4.92 | 1.311 | 104.2 | 0.722 | 3.310 | 326.0 | 520.6 | 0.919 | --- | -4.36 | 0.317 | 127.0 | 169.4 | -3.3 | 0.287 |
| 4-1740 | 4-2420 | 0.431 | 299.4 | -7.3 | 4.43 | 1.308 | 104.1 | 0.716 | 3.235 | 326.0 | 522.4 | 0.919 | --- | -3.89 | 0.306 | 124.3 | 168.3 | -3.0 | 0.274 |
| 4-1740 | 4-2440 | 0.427 | 299.7 | -8.3 | 4.04 | 1.306 | 104.1 | 0.710 | 3.173 | 325.9 | 524.1 | 0.919 | --- | -3.51 | 0.297 | 121.5 | 167.1 | -2.7 | 0.263 |
| 4-1740 | 4-2460 | 0.424 | 300.0 | -9.2 | 3.71 | 1.304 | 104.1 | 0.706 | 3.122 | 325.7 | 525.8 | 0.919 | --- | -3.20 | 0.288 | 118.8 | 165.8 | -2.4 | 0.253 |
| 4-1740 | 4-2480 | 0.423 | 300.4 | -10.0 | 3.44 | 1.302 | 104.2 | 0.702 | 3.080 | 325.4 | 527.3 | 0.918 | --- | -2.95 | 0.281 | 116.0 | 164.5 | -2.2 | 0.245 |
| 4-1740 | 4-2500 | 0.422 | 300.8 | -10.6 | 3.21 | 1.301 | 104.2 | 0.699 | 3.045 | 325.1 | 528.9 | 0.917 | --- | -2.73 | 0.274 | 113.2 | 163.1 | -2.0 | 0.237 |
| 4-1740 | 4-2520 | 0.422 | 301.3 | -11.1 | 3.00 | 1.299 | 104.4 | 0.696 | 3.016 | 324.8 | 530.3 | 0.916 | --- | -2.55 | 0.269 | 110.5 | 161.6 | -1.8 | 0.231 |
| 4-1740 | 4-2540 | 0.423 | 301.9 | -11.6 | 2.83 | 1.298 | 104.5 | 0.695 | 2.993 | 324.3 | 531.7 | 0.914 | --- | -2.39 | 0.264 | 107.8 | 160.1 | -1.6 | 0.225 |
| 4-1740 | 4-2560 | 0.425 | 302.5 | -12.0 | 2.67 | 1.297 | 104.7 | 0.693 | 2.974 | 323.8 | 533.0 | 0.912 | --- | -2.25 | 0.260 | 105.1 | 158.7 | -1.4 | 0.221 |
| 4-1740 | 4-2580 | 0.427 | 303.1 | -12.3 | 2.53 | 1.297 | 104.9 | 0.692 | 2.958 | 323.3 | 534.3 | 0.910 | --- | -2.13 | 0.257 | 102.4 | 157.2 | -1.3 | 0.218 |
| 4-1740 | 4-2600 | 0.430 | 303.8 | -12.6 | 2.41 | 1.296 | 105.1 | 0.692 | 2.946 | 322.7 | 535.5 | 0.907 | --- | -2.03 | 0.254 | 99.8 | 155.8 | -1.1 | 0.215 |
| 4-1740 | 4-2620 | 0.433 | 304.5 | -12.9 | 2.29 | 1.296 | 105.4 | 0.692 | 2.937 | 322.0 | 536.7 | 0.905 | --- | -1.93 | 0.252 | 97.3 | 154.4 | -0.9 | 0.213 |
| 4-1740 | 4-2640 | 0.437 | 305.2 | -13.1 | 2.19 | 1.296 | 105.7 | 0.692 | 2.930 | 321.3 | 537.8 | 0.901 | --- | -1.85 | 0.250 | 94.8 | 153.2 | -0.8 | 0.212 |
| 4-1740 | 4-2660 | 0.441 | 306.0 | -13.2 | 2.09 | 1.295 | 106.0 | 0.693 | 2.925 | 320.6 | 538.9 | 0.898 | --- | -1.77 | 0.249 | 92.4 | 152.0 | -0.6 | 0.212 |
| 4-1740 | 4-2680 | 0.446 | 306.8 | -13.4 | 2.01 | 1.295 | 106.3 | 0.694 | 2.923 | 319.8 | 540.0 | 0.894 | --- | -1.70 | 0.249 | 90.1 | 150.9 | -0.5 | 0.212 |
| 4-1740 | 4-2700 | 0.451 | 307.6 | -13.5 | 1.92 | 1.295 | 106.7 | 0.695 | 2.922 | 318.9 | 540.9 | 0.890 | 4.953 | -1.64 | 0.248 | 87.9 | 149.9 | -0.4 | 0.213 |
| 4-1740 | 4-2720 | 0.457 | 308.5 | -13.6 | 1.85 | 1.295 | 107.1 | 0.697 | 2.922 | 318.0 | 541.9 | 0.886 | 4.959 | -1.59 | 0.248 | 85.7 | 149.1 | -0.3 | 0.214 |
| 4-1740 | 4-2740 | 0.463 | 309.4 | -13.6 | 1.78 | 1.295 | 107.5 | 0.699 | 2.924 | 317.1 | 542.8 | 0.881 | 4.967 | -1.54 | 0.249 | 83.6 | 148.3 | -0.2 | 0.215 |
| 4-1740 | 4-2760 | 0.469 | 310.2 | -13.7 | 1.71 | 1.295 | 107.9 | 0.701 | 2.927 | 316.1 | 543.6 | 0.876 | 4.979 | -1.49 | 0.249 | 81.6 | 147.7 | -0.1 | 0.217 |
| 4-1740 | 4-2780 | 0.476 | 311.1 | -13.7 | 1.65 | 1.296 | 108.3 | 0.703 | 2.932 | 315.1 | 544.5 | 0.871 | 4.992 | -1.45 | 0.250 | 79.6 | 147.2 | 0.0 | 0.220 |
| 4-1740 | 4-2800 | 0.483 | 312.0 | -13.7 | 1.59 | 1.296 | 108.8 | 0.705 | 2.937 | 314.1 | 545.3 | 0.866 | 5.008 | -1.41 | 0.251 | 77.8 | 146.9 | 0.1 | 0.222 |
| 4-1740 | 4-2820 | 0.491 | 313.0 | -13.6 | 1.53 | 1.296 | 109.2 | 0.708 | 2.943 | 313.0 | 546.0 | 0.860 | 5.026 | -1.38 | 0.252 | 76.0 | 146.6 | 0.2 | 0.225 |
| 4-1740 | 4-2840 | 0.499 | 313.9 | -13.6 | 1.48 | 1.296 | 109.7 | 0.711 | 2.950 | 311.9 | 546.7 | 0.854 | 5.046 | -1.34 | 0.253 | 74.2 | 146.5 | 0.3 | 0.229 |
| 4-1740 | 4-2860 | 0.507 | 314.8 | -13.5 | 1.43 | 1.297 | 110.2 | 0.714 | 2.958 | 310.7 | 547.4 | 0.847 | 5.068 | -1.32 | 0.254 | 72.5 | 146.5 | 0.3 | 0.232 |
| 4-1740 | 4-2880 | 0.516 | 315.8 | -13.5 | 1.38 | 1.297 | 110.8 | 0.717 | 2.966 | 309.6 | 548.1 | 0.840 | 5.092 | -1.29 | 0.256 | 70.9 | 146.6 | 0.4 | 0.236 |
| 4-1740 | 4-2900 | 0.525 | 316.7 | -13.4 | 1.33 | 1.298 | 111.3 | 0.720 | 2.975 | 308.4 | 548.7 | 0.833 | 5.117 | -1.27 | 0.257 | 69.4 | 146.8 | 0.4 | 0.239 |
| 4-1740 | 4-2920 | 0.535 | 317.6 | -13.3 | 1.29 | 1.298 | 111.9 | 0.723 | 2.984 | 307.1 | 549.3 | 0.826 | 5.143 | -1.24 | 0.259 | 67.9 | 147.0 | 0.4 | 0.243 |
| 4-1740 | 4-2940 | 0.544 | 318.6 | -13.1 | 1.24 | 1.298 | 112.4 | 0.727 | 2.994 | 305.9 | 549.8 | 0.818 | 5.171 | -1.22 | 0.261 | 66.4 | 147.4 | 0.5 | 0.247 |
| 4-1740 | 4-2960 | 0.554 | 319.5 | -13.0 | 1.20 | 1.299 | 113.0 | 0.731 | 3.005 | 304.6 | 550.3 | 0.810 | 5.200 | -1.21 | 0.262 | 65.0 | 147.9 | 0.5 | 0.251 |
| 4-1740 | 4-2980 | 0.565 | 320.4 | -12.9 | 1.16 | 1.299 | 113.6 | 0.734 | 3.016 | 303.3 | 550.8 | 0.801 | 5.230 | -1.19 | 0.264 | 63.6 | 148.4 | 0.5 | 0.255 |
| 4-1740 | 4-3000 | 0.575 | 321.4 | -12.7 | 1.12 | 1.300 | 114.2 | 0.738 | 3.027 | 302.0 | 551.3 | 0.792 | 5.262 | -1.17 | 0.266 | 62.3 | 149.0 | 0.5 | 0.259 |
| 4-1740 | 4-3020 | 0.586 | 322.3 | -12.6 | 1.08 | 1.300 | 114.9 | 0.742 | 3.039 | 300.6 | 551.8 | 0.783 | 5.294 | -1.16 | 0.267 | 61.0 | 149.7 | 0.5 | 0.264 |
| 4-1740 | 4-3040 | 0.598 | 323.2 | -12.4 | 1.04 | 1.301 | 115.5 | 0.746 | 3.051 | 299.2 | 552.2 | 0.774 | 5.328 | -1.15 | 0.269 | 59.8 | 150.4 | 0.5 | 0.268 |
| 4-1740 | 4-3060 | 0.609 | 324.1 | -12.2 | 1.00 | 1.301 | 116.2 | 0.751 | 3.063 | 297.8 | 552.6 | 0.764 | 5.362 | -1.14 | 0.271 | 58.6 | 151.2 | 0.5 | 0.272 |
| 4-1740 | 4-3080 | 0.621 | 325.0 | -12.0 | 0.97 | 1.302 | 116.9 | 0.755 | 3.075 | 296.4 | 552.9 | 0.754 | 5.397 | -1.13 | 0.273 | 57.4 | 152.1 | 0.5 | 0.277 |
| 4-1740 | 4-3100 | 0.633 | 325.9 | -11.9 | 0.93 | 1.302 | 117.5 | 0.759 | 3.088 | 294.9 | 553.3 | 0.743 | 5.433 | -1.12 | 0.275 | 56.2 | 153.0 | 0.5 | 0.281 |
| 4-1740 | 4-3120 | 0.645 | 326.8 | -11.7 | 0.90 | 1.303 | 118.2 | 0.764 | 3.101 | 293.5 | 553.6 | 0.732 | 5.471 | -1.12 | 0.276 | 55.1 | 153.9 | 0.5 | 0.286 |
| 4-1740 | 4-3140 | 0.658 | 327.7 | -11.5 | 0.86 | 1.303 | 119.0 | 0.769 | 3.115 | 292.0 | 553.9 | 0.721 | 5.508 | -1.11 | 0.278 | 54.0 | 155.0 | 0.4 | 0.290 |
| 4-1740 | 4-3160 | 0.671 | 328.6 | -11.2 | 0.83 | 1.304 | 119.7 | 0.773 | 3.128 | 290.5 | 554.2 | 0.709 | 5.547 | -1.11 | 0.280 | 52.9 | 156.0 | 0.4 | 0.295 |
| 4-1740 | 4-3180 | 0.684 | 329.5 | -11.0 | 0.79 | 1.304 | 120.4 | 0.778 | 3.142 | 288.9 | 554.4 | 0.698 | 5.586 | -1.10 | 0.281 | 51.8 | 157.1 | 0.4 | 0.300 |
| 4-1740 | 4-3200 | 0.698 | 330.4 | -10.8 | 0.76 | 1.305 | 121.2 | 0.783 | 3.156 | 287.4 | 554.6 | 0.685 | 5.626 | -1.10 | 0.283 | 50.8 | 158.2 | 0.3 | 0.304 |
| 4-1740 | 4-3220 | 0.712 | 331.2 | -10.6 | 0.72 | 1.305 | 122.0 | 0.788 | 3.170 | 285.8 | 554.8 | 0.673 | 5.667 | -1.10 | 0.285 | 49.8 | 159.4 | 0.3 | 0.309 |
| 4-1740 | 4-3240 | 0.726 | 332.1 | -10.4 | 0.69 | 1.306 | 122.7 | 0.793 | 3.184 | 284.2 | 555.0 | 0.660 | 5.708 | -1.10 | 0.287 | 48.8 | 160.6 | 0.3 | 0.313 |
| 4-1740 | 4-3260 | 0.740 | 332.9 | -10.1 | 0.66 | 1.307 | 123.5 | 0.798 | 3.199 | 282.6 | 555.2 | 0.647 | 5.750 | -1.10 | 0.288 | 47.8 | 161.9 | 0.2 | 0.318 |
| 4-1740 | 4-3280 | 0.754 | 333.8 | -9.9 | 0.62 | 1.307 | 124.3 | 0.803 | 3.213 | 281.0 | 555.3 | 0.634 | 5.793 | -1.10 | 0.290 | 46.8 | 163.1 | 0.2 | 0.323 |
| 4-1740 | 4-3300 | 0.769 | 334.6 | -9.6 | 0.59 | 1.308 | 125.2 | 0.808 | 3.228 | 279.4 | 555.4 | 0.620 | 5.836 | -1.11 | 0.291 | 45.8 | 164.4 | 0.1 | 0.327 |
| 4-1740 | 4-3320 | 0.784 | 335.5 | -9.4 | 0.55 | 1.308 | 126.0 | 0.813 | 3.243 | 277.7 | 555.5 | 0.606 | 5.880 | -1.11 | 0.293 | 44.8 | 165.8 | 0.1 | 0.332 |
| 4-1740 | 4-3340 | 0.799 | 336.3 | -9.1 | 0.52 | 1.309 | 126.8 | 0.818 | 3.258 | 276.1 | 555.6 | 0.592 | 5.924 | -1.11 | 0.295 | 43.9 | 167.1 | 0.0 | 0.336 |
| 4-1750 | 4-2110 | 0.619 | 313.1 | -23.5 | -2.54 | 1.468 | 108.6 | 1.126-7.123 | | 325.0 | 483.4 | 0.898 | --- | 3.27 | 0.734 | 158.0 | 175.1 | 1.5 | 0.719 |
| 4-1750 | 4-2130 | 0.583 | 312.3 | -24.8 | -2.84 | 1.442 | 107.4 | 1.06015.130 | | 326.2 | 486.4 | 0.906 | --- | 3.55 | 0.681 | 156.5 | 175.4 | 1.7 | 0.666 |
| 4-1750 | 4-2150 | 0.552 | 311.7 | -26.2 | -3.20 | 1.421 | 106.4 | 1.00432.102 | | 327.3 | 489.2 | 0.914 | --- | 3.89 | 0.635 | 154.9 | 175.7 | 1.9 | 0.618 |
| 4-1750 | 4-2170 | 0.525 | 311.2 | -27.8 | -3.63 | 1.403 | 105.5 | 0.95621.095 | | 328.3 | 492.1 | 0.921 | --- | 4.30 | 0.593 | 153.2 | 175.9 | 2.2 | 0.575 |
| 4-1750 | 4-2190 | 0.503 | 310.8 | -29.8 | -4.17 | 1.387 | 104.6 | 0.91610.985 | | 329.3 | 494.8 | 0.926 | --- | 4.82 | 0.555 | 151.4 | 176.0 | 2.6 | 0.537 |
| 4-1750 | 4-2210 | 0.485 | 310.6 | -32.1 | -4.85 | 1.374 | 103.9 | 0.881 | 7.815 | 330.2 | 497.5 | 0.931 | --- | 5.49 | 0.521 | 149.5 | 176.0 | 3.1 | 0.502 |
| 4-1750 | 4-2230 | 0.472 | 310.9 | -35.2 | -5.76 | 1.362 | 103.3 | 0.851 | 6.275 | 331.1 | 500.2 | 0.936 | --- | 6.38 | 0.491 | 147.5 | 175.9 | 3.8 | 0.470 |
| 4-1750 | 4-2250 | 0.464 | 311.7 | -39.1 | -7.02 | 1.352 | 102.7 | 0.825 | 5.372 | 331.8 | 502.7 | 0.940 | --- | 7.62 | 0.463 | 145.5 | 175.8 | 4.8 | 0.441 |
| 4-1750 | 4-2270 | 0.464 | 313.8 | -44.5 | -8.90 | 1.344 | 102.2 | 0.803 | 4.783 | 332.5 | 505.2 | 0.943 | --- | 9.48 | 0.438 | 143.4 | 175.4 | 6.2 | 0.416 |
| 4-1750 | 4-2290 | 0.480 | 318.8 | -52.2 | -11.96 | 1.336 | 101.8 | 0.784 | 4.372 | 333.2 | 507.6 | 0.946 | --- | 12.52 | 0.415 | 141.1 | 174.9 | 8.5 | 0.395 |
| 4-1750 | 4-2310 | 0.540 | 334.4 | -63.1 | -17.86 | 1.330 | 101.4 | 0.767 | 4.072 | 333.7 | 509.9 | 0.948 | --- | 18.40 | 0.395 | 138.8 | 173.7 | 12.8 | 0.382 |
| 4-1750 | 4-2330 | 0.764 | 32.5 | -67.7 | -33.11 | 1.325 | 101.0 | 0.753 | 3.844 | 334.3 | 512.1 | 0.951 | --- | 33.63 | 0.376 | 136.5 | 169.9 | 21.7 | 0.399 |
| 4-1750 | 4-2350 | 1.657 | 71.1 | -29.9 | -89.60 | 1.320 | 100.4 | 0.740 | 3.668 | 335.4 | 514.2 | 0.955 | --- | 90.10 | 0.360 | 133.9 | 151.9 | 27.7 | 0.587 |
| 4-1750 | 4-2370 | 0.772 | 301.5 | 52.9 | 34.02 | 1.316 | 100.9 | 0.730 | 3.528 | 334.1 | 516.3 | 0.951 | --- | -33.53 | 0.345 | 131.5 | 166.0 | -22.0 | 0.369 |
| 4-1750 | 4-2390 | 0.534 | 296.7 | 31.1 | 18.80 | 1.312 | 100.7 | 0.721 | 3.416 | 334.5 | 518.3 | 0.952 | --- | -18.34 | 0.331 | 129.0 | 169.2 | -14.4 | 0.315 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| BEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1750 | 4-2410 | 0.457 | 296.7 | 18.6 | 12.91 | 1.309 | 100.5 | 0.713 | 3.325 | 334.6 | 520.2 | 0.953 | --- | -12.47 | 0.319 | 126.3 | 169.4 | -10.4 | 0.291 |
| 4-1750 | 4-2430 | 0.423 | 297.3 | 10.8 | 9.85 | 1.307 | 100.5 | 0.707 | 3.251 | 334.6 | 522.0 | 0.953 | --- | -9.42 | 0.309 | 123.7 | 168.8 | -8.2 | 0.275 |
| 4-1750 | 4-2450 | 0.405 | 297.9 | 5.6 | 7.98 | 1.304 | 100.5 | 0.701 | 3.190 | 334.6 | 523.7 | 0.953 | --- | -7.57 | 0.299 | 121.0 | 167.8 | -6.8 | 0.262 |
| 4-1750 | 4-2470 | 0.395 | 298.5 | 1.9 | 6.72 | 1.302 | 100.5 | 0.696 | 3.139 | 334.4 | 525.4 | 0.953 | --- | -6.33 | 0.291 | 118.3 | 166.7 | -5.8 | 0.252 |
| 4-1750 | 4-2490 | 0.388 | 299.1 | -0.9 | 5.81 | 1.301 | 100.5 | 0.693 | 3.098 | 334.2 | 527.0 | 0.952 | --- | -5.44 | 0.284 | 115.6 | 165.5 | -5.0 | 0.242 |
| 4-1750 | 4-2510 | 0.384 | 299.8 | -3.0 | 5.12 | 1.299 | 100.6 | 0.689 | 3.063 | 333.9 | 528.5 | 0.952 | --- | -4.77 | 0.278 | 112.9 | 164.1 | -4.4 | 0.235 |
| 4-1750 | 4-2530 | 0.382 | 300.5 | -4.7 | 4.58 | 1.298 | 100.7 | 0.687 | 3.035 | 333.6 | 530.0 | 0.950 | --- | -4.26 | 0.272 | 110.2 | 162.7 | -3.9 | 0.228 |
| 4-1750 | 4-2550 | 0.381 | 301.2 | -6.0 | 4.15 | 1.297 | 100.9 | 0.685 | 3.011 | 333.1 | 531.4 | 0.949 | --- | -3.84 | 0.268 | 107.6 | 161.3 | -3.4 | 0.222 |
| 4-1750 | 4-2570 | 0.381 | 302.0 | -7.1 | 3.79 | 1.296 | 101.1 | 0.683 | 2.992 | 332.7 | 532.8 | 0.948 | --- | -3.51 | 0.264 | 105.0 | 159.9 | -3.1 | 0.218 |
| 4-1750 | 4-2590 | 0.382 | 302.8 | -8.1 | 3.49 | 1.296 | 101.3 | 0.682 | 2.977 | 332.1 | 534.1 | 0.946 | --- | -3.23 | 0.261 | 102.4 | 158.4 | -2.7 | 0.214 |
| 4-1750 | 4-2610 | 0.384 | 303.6 | -8.8 | 3.24 | 1.295 | 101.5 | 0.682 | 2.965 | 331.5 | 535.3 | 0.944 | --- | -2.99 | 0.258 | 99.9 | 157.0 | -2.4 | 0.211 |
| 4-1750 | 4-2630 | 0.386 | 304.5 | -9.4 | 3.02 | 1.295 | 101.7 | 0.681 | 2.956 | 330.9 | 536.5 | 0.942 | --- | -2.79 | 0.256 | 97.4 | 155.7 | -2.1 | 0.209 |
| 4-1750 | 4-2650 | 0.389 | 305.4 | -10.0 | 2.82 | 1.294 | 102.0 | 0.681 | 2.950 | 330.2 | 537.6 | 0.940 | --- | -2.62 | 0.255 | 95.1 | 154.4 | -1.9 | 0.208 |
| 4-1750 | 4-2670 | 0.392 | 306.4 | -10.4 | 2.65 | 1.294 | 102.3 | 0.682 | 2.945 | 329.4 | 538.7 | 0.937 | --- | -2.47 | 0.254 | 92.8 | 153.3 | -1.6 | 0.207 |
| 4-1750 | 4-2690 | 0.396 | 307.4 | -10.8 | 2.50 | 1.294 | 102.6 | 0.683 | 2.943 | 328.6 | 539.7 | 0.934 | --- | -2.33 | 0.253 | 90.5 | 152.2 | -1.4 | 0.207 |
| 4-1750 | 4-2710 | 0.400 | 308.4 | -11.1 | 2.36 | 1.294 | 103.0 | 0.684 | 2.942 | 327.8 | 540.7 | 0.931 | 4.953 | -2.22 | 0.253 | 88.4 | 151.2 | -1.2 | 0.208 |
| 4-1750 | 4-2730 | 0.405 | 309.4 | -11.3 | 2.24 | 1.294 | 103.4 | 0.685 | 2.943 | 326.9 | 541.7 | 0.927 | 4.958 | -2.11 | 0.253 | 86.3 | 150.4 | -1.0 | 0.209 |
| 4-1750 | 4-2750 | 0.410 | 310.4 | -11.5 | 2.13 | 1.294 | 103.7 | 0.686 | 2.945 | 326.0 | 542.6 | 0.924 | 4.966 | -2.02 | 0.253 | 84.3 | 149.6 | -0.9 | 0.210 |
| 4-1750 | 4-2770 | 0.416 | 311.5 | -11.7 | 2.02 | 1.294 | 104.1 | 0.688 | 2.948 | 325.1 | 543.5 | 0.920 | 4.976 | -1.94 | 0.254 | 82.4 | 149.0 | -0.7 | 0.212 |
| 4-1750 | 4-2790 | 0.422 | 312.5 | -11.8 | 1.93 | 1.295 | 104.6 | 0.690 | 2.952 | 324.1 | 544.3 | 0.916 | 4.989 | -1.87 | 0.254 | 80.5 | 148.5 | -0.6 | 0.214 |
| 4-1750 | 4-2810 | 0.428 | 313.6 | -11.8 | 1.84 | 1.295 | 105.0 | 0.692 | 2.958 | 323.1 | 545.1 | 0.911 | 5.004 | -1.80 | 0.255 | 78.7 | 148.1 | -0.5 | 0.217 |
| 4-1750 | 4-2830 | 0.435 | 314.7 | -11.9 | 1.75 | 1.295 | 105.4 | 0.694 | 2.964 | 322.0 | 545.9 | 0.907 | 5.021 | -1.74 | 0.256 | 77.0 | 147.9 | -0.4 | 0.219 |
| 4-1750 | 4-2850 | 0.442 | 315.8 | -11.9 | 1.68 | 1.295 | 105.9 | 0.697 | 2.971 | 320.9 | 546.6 | 0.902 | 5.040 | -1.68 | 0.258 | 75.4 | 147.7 | -0.3 | 0.222 |
| 4-1750 | 4-2870 | 0.449 | 316.8 | -11.9 | 1.60 | 1.296 | 106.4 | 0.699 | 2.979 | 319.8 | 547.3 | 0.896 | 5.061 | -1.63 | 0.259 | 73.8 | 147.7 | -0.2 | 0.225 |
| 4-1750 | 4-2890 | 0.457 | 317.9 | -11.8 | 1.54 | 1.296 | 106.9 | 0.702 | 2.987 | 318.6 | 548.0 | 0.891 | 5.083 | -1.59 | 0.260 | 72.2 | 147.7 | -0.1 | 0.228 |
| 4-1750 | 4-2910 | 0.465 | 319.0 | -11.8 | 1.47 | 1.296 | 107.4 | 0.705 | 2.996 | 317.5 | 548.7 | 0.885 | 5.107 | -1.55 | 0.262 | 70.7 | 147.9 | -0.0 | 0.232 |
| 4-1750 | 4-2930 | 0.473 | 320.1 | -11.7 | 1.41 | 1.297 | 107.9 | 0.708 | 3.006 | 316.3 | 549.3 | 0.879 | 5.132 | -1.51 | 0.263 | 69.3 | 148.2 | 0.0 | 0.235 |
| 4-1750 | 4-2950 | 0.482 | 321.2 | -11.6 | 1.35 | 1.297 | 108.5 | 0.711 | 3.016 | 315.0 | 549.8 | 0.872 | 5.159 | -1.47 | 0.265 | 67.9 | 148.5 | 0.1 | 0.239 |
| 4-1750 | 4-2970 | 0.491 | 322.2 | -11.5 | 1.30 | 1.298 | 109.0 | 0.714 | 3.026 | 313.8 | 550.4 | 0.865 | 5.187 | -1.44 | 0.266 | 66.6 | 148.9 | 0.1 | 0.243 |
| 4-1750 | 4-2990 | 0.500 | 323.3 | -11.3 | 1.24 | 1.298 | 109.6 | 0.717 | 3.037 | 312.5 | 550.9 | 0.858 | 5.216 | -1.41 | 0.268 | 65.3 | 149.4 | 0.2 | 0.247 |
| 4-1750 | 4-3010 | 0.510 | 324.3 | -11.2 | 1.19 | 1.299 | 110.2 | 0.721 | 3.048 | 311.2 | 551.4 | 0.851 | 5.246 | -1.39 | 0.270 | 64.0 | 150.0 | 0.2 | 0.251 |
| 4-1750 | 4-3030 | 0.520 | 325.4 | -11.0 | 1.14 | 1.299 | 110.8 | 0.724 | 3.060 | 309.9 | 551.9 | 0.843 | 5.277 | -1.36 | 0.271 | 62.8 | 150.6 | 0.2 | 0.255 |
| 4-1750 | 4-3050 | 0.530 | 326.4 | -10.8 | 1.09 | 1.300 | 111.4 | 0.728 | 3.072 | 308.5 | 552.4 | 0.835 | 5.309 | -1.34 | 0.273 | 61.6 | 151.3 | 0.2 | 0.259 |
| 4-1750 | 4-3070 | 0.541 | 327.4 | -10.7 | 1.05 | 1.300 | 112.0 | 0.732 | 3.084 | 307.1 | 552.8 | 0.827 | 5.342 | -1.32 | 0.275 | 60.5 | 152.1 | 0.2 | 0.263 |
| 4-1750 | 4-3090 | 0.552 | 328.4 | -10.5 | 1.00 | 1.301 | 112.7 | 0.736 | 3.097 | 305.8 | 553.2 | 0.818 | 5.376 | -1.31 | 0.276 | 59.4 | 152.9 | 0.2 | 0.267 |
| 4-1750 | 4-3110 | 0.563 | 329.4 | -10.3 | 0.96 | 1.301 | 113.3 | 0.740 | 3.110 | 304.3 | 553.6 | 0.809 | 5.410 | -1.29 | 0.278 | 58.3 | 153.8 | 0.2 | 0.271 |
| 4-1750 | 4-3130 | 0.574 | 330.4 | -10.1 | 0.92 | 1.302 | 114.0 | 0.744 | 3.123 | 302.9 | 553.9 | 0.799 | 5.446 | -1.27 | 0.280 | 57.2 | 154.8 | 0.2 | 0.275 |
| 4-1750 | 4-3150 | 0.586 | 331.4 | -9.8 | 0.88 | 1.302 | 114.7 | 0.748 | 3.136 | 301.5 | 554.2 | 0.790 | 5.482 | -1.26 | 0.282 | 56.2 | 155.7 | 0.2 | 0.279 |
| 4-1750 | 4-3170 | 0.598 | 332.4 | -9.6 | 0.83 | 1.303 | 115.3 | 0.752 | 3.149 | 300.0 | 554.6 | 0.780 | 5.519 | -1.25 | 0.283 | 55.2 | 156.7 | 0.2 | 0.283 |
| 4-1750 | 4-3190 | 0.610 | 333.3 | -9.4 | 0.79 | 1.303 | 116.0 | 0.757 | 3.163 | 298.5 | 554.8 | 0.769 | 5.557 | -1.24 | 0.285 | 54.2 | 157.8 | 0.2 | 0.288 |
| 4-1750 | 4-3210 | 0.622 | 334.3 | -9.1 | 0.76 | 1.304 | 116.8 | 0.761 | 3.177 | 297.0 | 555.1 | 0.759 | 5.595 | -1.23 | 0.286 | 53.2 | 158.9 | 0.1 | 0.292 |
| 4-1750 | 4-3230 | 0.635 | 335.2 | -8.9 | 0.72 | 1.304 | 117.5 | 0.766 | 3.191 | 295.5 | 555.4 | 0.747 | 5.634 | -1.22 | 0.288 | 52.2 | 160.0 | 0.1 | 0.296 |
| 4-1750 | 4-3250 | 0.648 | 336.1 | -8.7 | 0.68 | 1.305 | 118.2 | 0.770 | 3.205 | 293.9 | 555.6 | 0.736 | 5.674 | -1.22 | 0.290 | 51.3 | 161.2 | 0.1 | 0.300 |
| 4-1750 | 4-3270 | 0.661 | 337.1 | -8.4 | 0.64 | 1.305 | 119.0 | 0.775 | 3.219 | 292.4 | 555.8 | 0.724 | 5.714 | -1.21 | 0.291 | 50.3 | 162.4 | 0.0 | 0.305 |
| 4-1750 | 4-3290 | 0.675 | 338.0 | -8.1 | 0.60 | 1.306 | 119.7 | 0.780 | 3.234 | 290.8 | 556.0 | 0.712 | 5.755 | -1.21 | 0.293 | 49.4 | 163.7 | -0.0 | 0.309 |
| 4-1750 | 4-3310 | 0.688 | 338.9 | -7.9 | 0.57 | 1.306 | 120.5 | 0.784 | 3.248 | 289.2 | 556.1 | 0.700 | 5.797 | -1.21 | 0.294 | 48.5 | 164.9 | -0.1 | 0.313 |
| 4-1750 | 4-3330 | 0.702 | 339.8 | -7.6 | 0.53 | 1.307 | 121.3 | 0.789 | 3.263 | 287.6 | 556.3 | 0.687 | 5.839 | -1.21 | 0.296 | 47.6 | 166.2 | -0.1 | 0.317 |
| 4-1750 | 4-3350 | 0.716 | 340.6 | -7.4 | 0.49 | 1.308 | 122.1 | 0.794 | 3.278 | 286.0 | 556.4 | 0.675 | 5.881 | -1.21 | 0.297 | 46.7 | 167.5 | -0.1 | 0.322 |
| 4-1760 | 4-2080 | 0.646 | 315.6 | -20.6 | -1.59 | 1.527 | 106.6 | 1.299 | -3.091 | 330.7 | 476.4 | 0.923 | --- | 2.26 | 0.849 | 160.1 | 175.5 | 1.0 | 0.831 |
| 4-1760 | 4-2100 | 0.599 | 314.5 | -21.5 | -1.72 | 1.492 | 105.3 | 1.202 | -4.612 | 332.0 | 479.5 | 0.932 | --- | 2.37 | 0.784 | 158.7 | 175.9 | 1.1 | 0.765 |
| 4-1760 | 4-2120 | 0.559 | 313.4 | -22.4 | -1.86 | 1.462 | 104.2 | 1.121 | -7.735 | 333.2 | 482.6 | 0.939 | --- | 2.50 | 0.726 | 157.2 | 176.3 | 1.2 | 0.707 |
| 4-1760 | 4-2140 | 0.525 | 312.3 | -23.4 | -2.02 | 1.437 | 103.1 | 1.054 | 17.574 | 334.5 | 485.6 | 0.946 | --- | 2.64 | 0.675 | 155.7 | 176.6 | 1.3 | 0.655 |
| 4-1760 | 4-2160 | 0.495 | 311.2 | -24.5 | -2.20 | 1.416 | 102.1 | 0.997 | 06.618 | 335.7 | 488.5 | 0.951 | --- | 2.79 | 0.629 | 154.1 | 176.8 | 1.4 | 0.608 |
| 4-1760 | 4-2180 | 0.470 | 310.1 | -25.6 | -2.41 | 1.398 | 101.3 | 0.949 | 18.609 | 336.8 | 491.5 | 0.956 | --- | 2.98 | 0.588 | 152.4 | 176.9 | 1.6 | 0.565 |
| 4-1760 | 4-2200 | 0.449 | 309.1 | -26.9 | -2.64 | 1.383 | 100.5 | 0.908 | 10.388 | 337.9 | 494.3 | 0.961 | --- | 3.19 | 0.551 | 150.6 | 177.0 | 1.8 | 0.527 |
| 4-1760 | 4-2220 | 0.431 | 308.2 | -28.2 | -2.91 | 1.370 | 99.9 | 0.872 | 7.561 | 338.8 | 497.1 | 0.964 | --- | 3.44 | 0.517 | 148.7 | 177.0 | 2.0 | 0.493 |
| 4-1760 | 4-2240 | 0.416 | 307.5 | -29.8 | -3.22 | 1.359 | 99.3 | 0.842 | 6.140 | 339.7 | 499.8 | 0.967 | --- | 3.73 | 0.487 | 146.7 | 177.0 | 2.3 | 0.461 |
| 4-1760 | 4-2260 | 0.403 | 306.9 | -31.5 | -3.60 | 1.349 | 98.7 | 0.817 | 5.292 | 340.5 | 502.4 | 0.970 | --- | 4.09 | 0.460 | 144.7 | 176.8 | 2.7 | 0.433 |
| 4-1760 | 4-2280 | 0.393 | 306.4 | -33.5 | -4.06 | 1.341 | 98.3 | 0.795 | 4.733 | 341.3 | 504.9 | 0.972 | --- | 4.53 | 0.436 | 142.6 | 176.5 | 3.1 | 0.407 |
| 4-1760 | 4-2300 | 0.386 | 306.3 | -35.8 | -4.63 | 1.334 | 97.9 | 0.776 | 4.340 | 341.9 | 507.3 | 0.974 | --- | 5.07 | 0.413 | 140.3 | 176.1 | 3.7 | 0.383 |
| 4-1760 | 4-2320 | 0.381 | 306.5 | -38.6 | -5.35 | 1.328 | 97.6 | 0.759 | 4.051 | 342.4 | 509.7 | 0.975 | --- | 5.78 | 0.393 | 138.0 | 175.7 | 4.4 | 0.362 |
| 4-1760 | 4-2340 | 0.380 | 307.2 | -42.1 | -6.31 | 1.322 | 97.3 | 0.745 | 3.831 | 342.9 | 511.9 | 0.977 | --- | 6.72 | 0.375 | 135.7 | 175.1 | 5.4 | 0.342 |
| 4-1760 | 4-2360 | 0.384 | 308.8 | -46.6 | -7.65 | 1.318 | 97.1 | 0.733 | 3.661 | 343.3 | 514.1 | 0.978 | --- | 8.03 | 0.359 | 133.2 | 174.3 | 6.8 | 0.326 |
| 4-1760 | 4-2380 | 0.396 | 312.1 | -52.7 | -9.63 | 1.314 | 96.9 | 0.722 | 3.525 | 343.5 | 516.2 | 0.978 | --- | 10.00 | 0.345 | 130.7 | 173.5 | 8.7 | 0.311 |
| 4-1760 | 4-2400 | 0.428 | 319.9 | -61.0 | -12.89 | 1.310 | 96.8 | 0.713 | 3.416 | 343.7 | 518.2 | 0.979 | --- | 13.23 | 0.332 | 128.2 | 172.3 | 11.9 | 0.301 |
| 4-1760 | 4-2420 | 0.509 | 345.4 | -71.4 | -19.15 | 1.307 | 96.7 | 0.706 | 3.328 | 343.9 | 520.1 | 0.979 | --- | 19.48 | 0.320 | 125.6 | 170.5 | 17.3 | 0.301 |
| 4-1760 | 4-2440 | 0.769 | 56.2 | -67.7 | -35.29 | 1.305 | 96.5 | 0.699 | 3.256 | 344.1 | 521.9 | 0.980 | --- | 35.60 | 0.310 | 122.9 | 166.0 | 27.3 | 0.339 |
| 4-1760 | 4-2460 | 1.622 | 58.4 | 74.8 | 88.23 | 1.302 | 97.2 | 0.695 | 3.197 | 342.4 | 523.6 | 0.976 | --- | -87.95 | 0.301 | 120.4 | 149.0 | -27.0 | 0.543 |
| 4-1760 | 4-2480 | 0.754 | 295.7 | 58.7 | 34.50 | 1.301 | 96.9 | 0.689 | 3.147 | 343.1 | 525.3 | 0.978 | --- | -34.23 | 0.293 | 117.7 | 161.4 | -26.3 | 0.318 |
| 4-1760 | 4-2500 | 0.506 | 293.6 | 36.7 | 19.25 | 1.299 | 96.9 | 0.685 | 3.107 | 343.0 | 526.9 | 0.978 | --- | -19.01 | 0.286 | 115.0 | 164.0 | -17.9 | 0.263 |
| 4-1760 | 4-2520 | 0.423 | 294.7 | 23.4 | 13.21 | 1.298 | 97.0 | 0.682 | 3.073 | 342.8 | 528.5 | 0.977 | --- | -12.99 | 0.280 | 112.4 | 163.8 | -13.1 | 0.242 |
| 4-1760 | 4-2540 | 0.388 | 295.9 | 14.7 | 10.05 | 1.296 | 97.1 | 0.679 | 3.046 | 342.5 | 529.9 | 0.977 | --- | -9.84 | 0.275 | 109.7 | 162.9 | -10.2 | 0.231 |
| 4-1760 | 4-2560 | 0.370 | 297.2 | 8.8 | 8.11 | 1.296 | 97.2 | 0.677 | 3.023 | 342.1 | 531.3 | 0.976 | --- | -7.92 | 0.270 | 107.1 | 161.7 | -8.2 | 0.223 |
| 4-1760 | 4-2580 | 0.360 | 298.4 | 4.5 | 6.79 | 1.295 | 97.4 | 0.676 | 3.005 | 341.6 | 532.7 | 0.975 | --- | -6.63 | 0.267 | 104.6 | 160.4 | -6.9 | 0.217 |
| 4-1760 | 4-2600 | 0.355 | 299.6 | 1.4 | 5.85 | 1.294 | 97.6 | 0.674 | 2.991 | 341.1 | 534.0 | 0.974 | --- | -5.71 | 0.264 | 102.1 | 159.1 | -5.8 | 0.213 |
| 4-1760 | 4-2620 | 0.352 | 300.8 | -1.0 | 5.13 | 1.294 | 97.8 | 0.674 | 2.979 | 340.5 | 535.2 | 0.972 | --- | -5.01 | 0.261 | 99.7 | 157.8 | -5.0 | 0.210 |
| 4-1760 | 4-2640 | 0.352 | 302.0 | -2.9 | 4.57 | 1.293 | 98.1 | 0.673 | 2.971 | 339.8 | 536.4 | 0.971 | --- | -4.47 | 0.260 | 97.3 | 156.5 | -4.3 | 0.207 |
| 4-1760 | 4-2660 | 0.352 | 303.2 | -4.4 | 4.12 | 1.293 | 98.4 | 0.673 | 2.965 | 339.1 | 537.5 | 0.969 | --- | -4.04 | 0.258 | 95.0 | 155.3 | -3.8 | 0.206 |
| 4-1760 | 4-2680 | 0.353 | 304.4 | -5.7 | 3.75 | 1.293 | 98.7 | 0.673 | 2.961 | 338.4 | 538.6 | 0.967 | --- | -3.69 | 0.257 | 92.8 | 154.2 | -3.3 | 0.205 |
| 4-1760 | 4-2700 | 0.355 | 305.6 | -6.7 | 3.43 | 1.293 | 99.0 | 0.674 | 2.959 | 337.6 | 539.7 | 0.965 | --- | -3.39 | 0.257 | 90.7 | 153.1 | -2.9 | 0.204 |

BEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1760 | 4-2720 | 0.358 | 306.9 | -7.5 | 3.16 | 1.293 | 99.3 | 0.674 | 2.958 | 336.8 | 540.7 | 0.963 | 4.953 | -3.15 | 0.256 | 88.6 | 152.2 | -2.5 | 0.205 |
| 4-1760 | 4-2740 | 0.362 | 308.2 | -8.1 | 2.93 | 1.293 | 99.7 | 0.675 | 2.959 | 335.9 | 541.6 | 0.961 | 4.958 | -2.94 | 0.257 | 86.6 | 151.3 | -2.2 | 0.205 |
| 4-1760 | 4-2760 | 0.365 | 309.4 | -8.6 | 2.73 | 1.293 | 100.0 | 0.677 | 2.962 | 335.0 | 542.6 | 0.958 | 4.965 | -2.76 | 0.257 | 84.7 | 150.6 | -1.9 | 0.207 |
| 4-1760 | 4-2780 | 0.370 | 310.7 | -9.1 | 2.55 | 1.293 | 100.4 | 0.678 | 2.965 | 334.1 | 543.4 | 0.955 | 4.975 | -2.60 | 0.257 | 82.8 | 150.0 | -1.7 | 0.208 |
| 4-1760 | 4-2800 | 0.374 | 312.0 | -9.4 | 2.39 | 1.293 | 100.8 | 0.679 | 2.970 | 333.1 | 544.3 | 0.952 | 4.988 | -2.46 | 0.258 | 81.1 | 149.5 | -1.4 | 0.210 |
| 4-1760 | 4-2820 | 0.379 | 313.3 | -9.7 | 2.25 | 1.293 | 101.3 | 0.681 | 2.975 | 332.1 | 545.1 | 0.949 | 5.002 | -2.34 | 0.259 | 79.3 | 149.2 | -1.2 | 0.212 |
| 4-1760 | 4-2840 | 0.385 | 314.6 | -9.9 | 2.12 | 1.294 | 101.7 | 0.683 | 2.982 | 331.0 | 545.9 | 0.945 | 5.019 | -2.23 | 0.260 | 77.7 | 148.9 | -1.1 | 0.215 |
| 4-1760 | 4-2860 | 0.391 | 315.9 | -10.0 | 2.00 | 1.294 | 102.2 | 0.685 | 2.989 | 329.9 | 546.6 | 0.941 | 5.037 | -2.13 | 0.261 | 76.1 | 148.7 | -0.9 | 0.217 |
| 4-1760 | 4-2880 | 0.397 | 317.3 | -10.1 | 1.89 | 1.294 | 102.6 | 0.687 | 2.997 | 328.8 | 547.3 | 0.937 | 5.057 | -2.05 | 0.263 | 74.6 | 148.7 | -0.8 | 0.220 |
| 4-1760 | 4-2900 | 0.404 | 318.5 | -10.2 | 1.79 | 1.295 | 103.1 | 0.690 | 3.006 | 327.7 | 548.0 | 0.933 | 5.079 | -1.97 | 0.264 | 73.1 | 148.8 | -0.6 | 0.223 |
| 4-1760 | 4-2920 | 0.411 | 319.8 | -10.2 | 1.69 | 1.295 | 103.6 | 0.692 | 3.015 | 326.5 | 548.7 | 0.928 | 5.101 | -1.90 | 0.265 | 71.7 | 148.9 | -0.5 | 0.226 |
| 4-1760 | 4-2940 | 0.418 | 321.1 | -10.1 | 1.61 | 1.296 | 104.1 | 0.695 | 3.024 | 325.4 | 549.3 | 0.923 | 5.126 | -1.84 | 0.267 | 70.4 | 149.1 | -0.4 | 0.229 |
| 4-1760 | 4-2960 | 0.426 | 322.4 | -10.1 | 1.53 | 1.296 | 104.6 | 0.697 | 3.035 | 324.1 | 549.9 | 0.918 | 5.151 | -1.78 | 0.268 | 69.0 | 149.5 | -0.4 | 0.233 |
| 4-1760 | 4-2980 | 0.434 | 323.6 | -10.0 | 1.45 | 1.296 | 105.2 | 0.700 | 3.045 | 322.9 | 550.5 | 0.913 | 5.178 | -1.73 | 0.270 | 67.8 | 149.9 | -0.3 | 0.236 |
| 4-1760 | 4-3000 | 0.442 | 324.9 | -9.9 | 1.38 | 1.297 | 105.7 | 0.703 | 3.056 | 321.6 | 551.0 | 0.907 | 5.206 | -1.68 | 0.272 | 66.5 | 150.4 | -0.2 | 0.240 |
| 4-1760 | 4-3020 | 0.450 | 326.1 | -9.8 | 1.31 | 1.297 | 106.3 | 0.706 | 3.068 | 320.4 | 551.5 | 0.901 | 5.235 | -1.64 | 0.273 | 65.4 | 150.9 | -0.2 | 0.243 |
| 4-1760 | 4-3040 | 0.459 | 327.3 | -9.6 | 1.25 | 1.298 | 106.8 | 0.710 | 3.079 | 319.1 | 552.0 | 0.894 | 5.264 | -1.60 | 0.275 | 64.2 | 151.6 | -0.1 | 0.247 |
| 4-1760 | 4-3060 | 0.468 | 328.5 | -9.4 | 1.19 | 1.298 | 107.4 | 0.713 | 3.092 | 317.7 | 552.5 | 0.888 | 5.295 | -1.56 | 0.277 | 63.1 | 152.2 | -0.1 | 0.251 |
| 4-1760 | 4-3080 | 0.478 | 329.7 | -9.2 | 1.13 | 1.299 | 108.0 | 0.716 | 3.104 | 316.4 | 553.0 | 0.881 | 5.327 | -1.53 | 0.278 | 62.0 | 153.0 | -0.1 | 0.255 |
| 4-1760 | 4-3100 | 0.488 | 330.8 | -9.0 | 1.07 | 1.299 | 108.6 | 0.720 | 3.117 | 315.0 | 553.4 | 0.874 | 5.359 | -1.50 | 0.280 | 61.0 | 153.8 | -0.1 | 0.258 |
| 4-1760 | 4-3120 | 0.498 | 332.0 | -8.8 | 1.02 | 1.300 | 109.2 | 0.723 | 3.129 | 313.6 | 553.8 | 0.866 | 5.393 | -1.47 | 0.281 | 59.9 | 154.6 | -0.1 | 0.262 |
| 4-1760 | 4-3140 | 0.508 | 333.1 | -8.6 | 0.97 | 1.300 | 109.9 | 0.727 | 3.143 | 312.2 | 554.2 | 0.858 | 5.427 | -1.44 | 0.283 | 58.9 | 155.6 | -0.0 | 0.266 |
| 4-1760 | 4-3160 | 0.519 | 334.2 | -8.4 | 0.92 | 1.301 | 110.5 | 0.731 | 3.156 | 310.8 | 554.5 | 0.850 | 5.462 | -1.42 | 0.285 | 57.9 | 156.5 | -0.0 | 0.270 |
| 4-1760 | 4-3180 | 0.529 | 335.3 | -8.1 | 0.87 | 1.301 | 111.2 | 0.735 | 3.169 | 309.4 | 554.9 | 0.841 | 5.497 | -1.40 | 0.286 | 57.0 | 157.5 | -0.1 | 0.274 |
| 4-1760 | 4-3200 | 0.541 | 336.4 | -7.9 | 0.82 | 1.302 | 111.8 | 0.738 | 3.183 | 307.9 | 555.2 | 0.833 | 5.534 | -1.38 | 0.288 | 56.1 | 158.5 | -0.1 | 0.278 |
| 4-1760 | 4-3220 | 0.552 | 337.4 | -7.6 | 0.77 | 1.302 | 112.5 | 0.742 | 3.197 | 306.5 | 555.5 | 0.823 | 5.570 | -1.36 | 0.290 | 55.1 | 159.6 | -0.1 | 0.282 |
| 4-1760 | 4-3240 | 0.564 | 338.5 | -7.4 | 0.73 | 1.303 | 113.2 | 0.747 | 3.211 | 305.0 | 555.8 | 0.814 | 5.608 | -1.35 | 0.291 | 54.2 | 160.7 | -0.1 | 0.285 |
| 4-1760 | 4-3260 | 0.575 | 339.5 | -7.1 | 0.69 | 1.304 | 113.9 | 0.751 | 3.225 | 303.5 | 556.0 | 0.804 | 5.646 | -1.34 | 0.293 | 53.3 | 161.8 | -0.1 | 0.289 |
| 4-1760 | 4-3280 | 0.588 | 340.5 | -6.8 | 0.64 | 1.304 | 114.6 | 0.755 | 3.239 | 302.0 | 556.3 | 0.794 | 5.685 | -1.32 | 0.294 | 52.5 | 163.0 | -0.2 | 0.293 |
| 4-1760 | 4-3300 | 0.600 | 341.5 | -6.5 | 0.60 | 1.305 | 115.3 | 0.759 | 3.254 | 300.4 | 556.5 | 0.784 | 5.724 | -1.31 | 0.296 | 51.6 | 164.2 | -0.2 | 0.297 |
| 4-1760 | 4-3320 | 0.613 | 342.5 | -6.3 | 0.56 | 1.305 | 116.0 | 0.764 | 3.268 | 298.9 | 556.7 | 0.773 | 5.764 | -1.30 | 0.297 | 50.8 | 165.5 | -0.2 | 0.301 |
| 4-1760 | 4-3340 | 0.625 | 343.5 | -6.0 | 0.52 | 1.306 | 116.8 | 0.768 | 3.283 | 297.3 | 556.9 | 0.762 | 5.804 | -1.30 | 0.299 | 49.9 | 166.7 | -0.3 | 0.305 |
| 4-1760 | 4-3360 | 0.638 | 344.4 | -5.7 | 0.48 | 1.306 | 117.5 | 0.773 | 3.298 | 295.8 | 557.1 | 0.750 | 5.845 | -1.29 | 0.300 | 49.1 | 168.0 | -0.3 | 0.309 |
| 4-1770 | 4-2070 | 0.637 | 316.2 | -19.8 | -1.24 | 1.560 | 103.1 | 1.410 | -2.328 | 337.7 | 472.7 | 0.955 | --- | 1.84 | 0.909 | 160.7 | 176.1 | 0.8 | 0.888 |
| 4-1770 | 4-2090 | 0.585 | 314.8 | -20.6 | -1.32 | 1.519 | 101.8 | 1.291 | -3.308 | 339.1 | 475.8 | 0.961 | --- | 1.90 | 0.837 | 159.4 | 176.5 | 0.9 | 0.815 |
| 4-1770 | 4-2110 | 0.542 | 313.3 | -21.5 | -1.41 | 1.484 | 100.6 | 1.193 | -5.023 | 340.5 | 479.0 | 0.967 | --- | 1.97 | 0.773 | 158.0 | 176.9 | 0.9 | 0.750 |
| 4-1770 | 4-2130 | 0.506 | 311.8 | -22.4 | -1.51 | 1.455 | 99.6 | 1.111 | -8.745 | 341.9 | 482.2 | 0.972 | --- | 2.04 | 0.716 | 156.5 | 177.2 | 1.0 | 0.693 |
| 4-1770 | 4-2150 | 0.474 | 310.2 | -23.3 | -1.61 | 1.431 | 98.6 | 1.043 | 22.573 | 343.2 | 485.3 | 0.977 | --- | 2.12 | 0.666 | 155.0 | 177.5 | 1.1 | 0.642 |
| 4-1770 | 4-2170 | 0.448 | 308.6 | -24.3 | -1.72 | 1.411 | 97.7 | 0.986 | 71.642 | 344.5 | 488.3 | 0.980 | --- | 2.21 | 0.621 | 153.3 | 177.7 | 1.2 | 0.596 |
| 4-1770 | 4-2190 | 0.425 | 307.1 | -25.3 | -1.85 | 1.393 | 96.9 | 0.938 | 15.915 | 345.7 | 491.3 | 0.983 | --- | 2.31 | 0.580 | 151.6 | 177.8 | 1.3 | 0.554 |
| 4-1770 | 4-2210 | 0.406 | 305.6 | -26.3 | -1.98 | 1.378 | 96.2 | 0.897 | 9.615 | 346.8 | 494.2 | 0.986 | --- | 2.42 | 0.544 | 149.8 | 177.8 | 1.4 | 0.517 |
| 4-1770 | 4-2230 | 0.390 | 304.2 | -27.4 | -2.13 | 1.366 | 95.6 | 0.863 | 7.202 | 347.8 | 497.1 | 0.988 | --- | 2.55 | 0.511 | 147.9 | 177.8 | 1.6 | 0.483 |
| 4-1770 | 4-2250 | 0.377 | 303.0 | -28.4 | -2.29 | 1.355 | 95.1 | 0.833 | 5.936 | 348.8 | 499.8 | 0.990 | --- | 2.69 | 0.482 | 145.9 | 177.7 | 1.7 | 0.452 |
| 4-1770 | 4-2270 | 0.365 | 301.8 | -29.6 | -2.48 | 1.345 | 94.6 | 0.808 | 5.163 | 349.6 | 502.5 | 0.991 | --- | 2.86 | 0.455 | 143.9 | 177.5 | 1.9 | 0.424 |
| 4-1770 | 4-2290 | 0.356 | 300.8 | -30.8 | -2.69 | 1.337 | 94.2 | 0.786 | 4.645 | 350.4 | 505.0 | 0.992 | --- | 3.05 | 0.431 | 141.7 | 177.2 | 2.2 | 0.398 |
| 4-1770 | 4-2310 | 0.348 | 300.0 | -32.1 | -2.93 | 1.330 | 93.9 | 0.768 | 4.277 | 351.1 | 507.5 | 0.993 | --- | 3.26 | 0.410 | 139.5 | 176.8 | 2.5 | 0.375 |
| 4-1770 | 4-2330 | 0.341 | 299.4 | -33.5 | -3.21 | 1.324 | 93.6 | 0.752 | 4.005 | 351.6 | 509.9 | 0.994 | --- | 3.52 | 0.390 | 137.2 | 176.3 | 2.8 | 0.354 |
| 4-1770 | 4-2350 | 0.337 | 298.9 | -35.0 | -3.54 | 1.319 | 93.4 | 0.738 | 3.798 | 352.1 | 512.1 | 0.994 | --- | 3.83 | 0.372 | 134.8 | 175.7 | 3.3 | 0.335 |
| 4-1770 | 4-2370 | 0.333 | 298.7 | -36.8 | -3.93 | 1.315 | 93.2 | 0.726 | 3.636 | 352.4 | 514.3 | 0.995 | --- | 4.20 | 0.357 | 132.4 | 175.0 | 3.8 | 0.317 |
| 4-1770 | 4-2390 | 0.331 | 298.8 | -38.8 | -4.40 | 1.311 | 93.0 | 0.716 | 3.507 | 352.7 | 516.4 | 0.995 | --- | 4.65 | 0.343 | 129.9 | 174.1 | 4.4 | 0.301 |
| 4-1770 | 4-2410 | 0.331 | 299.2 | -41.2 | -4.99 | 1.308 | 93.0 | 0.708 | 3.403 | 352.9 | 518.4 | 0.995 | --- | 5.22 | 0.330 | 127.3 | 173.2 | 5.1 | 0.287 |
| 4-1770 | 4-2430 | 0.333 | 300.1 | -44.1 | -5.75 | 1.305 | 92.9 | 0.700 | 3.319 | 353.0 | 520.3 | 0.995 | --- | 5.95 | 0.319 | 124.7 | 172.2 | 6.1 | 0.275 |
| 4-1770 | 4-2450 | 0.338 | 301.5 | -47.8 | -6.75 | 1.302 | 92.9 | 0.694 | 3.250 | 353.0 | 522.1 | 0.995 | --- | 6.93 | 0.309 | 122.1 | 171.1 | 7.4 | 0.264 |
| 4-1770 | 4-2470 | 0.348 | 303.9 | -52.6 | -8.15 | 1.300 | 92.9 | 0.688 | 3.193 | 352.9 | 523.8 | 0.995 | --- | 8.31 | 0.300 | 119.5 | 169.8 | 9.1 | 0.255 |
| 4-1770 | 4-2490 | 0.368 | 308.4 | -59.1 | -10.24 | 1.298 | 92.9 | 0.684 | 3.147 | 352.8 | 525.5 | 0.995 | --- | 10.39 | 0.293 | 116.8 | 168.5 | 11.5 | 0.249 |
| 4-1770 | 4-2510 | 0.409 | 319.0 | -67.8 | -13.71 | 1.297 | 93.0 | 0.680 | 3.108 | 352.6 | 527.1 | 0.995 | --- | 13.83 | 0.286 | 114.2 | 166.9 | 15.3 | 0.248 |
| 4-1770 | 4-2530 | 0.507 | 359.5 | -77.2 | -20.49 | 1.296 | 93.1 | 0.677 | 3.076 | 352.3 | 528.6 | 0.995 | --- | 20.59 | 0.280 | 111.6 | 165.0 | 21.7 | 0.258 |
| 4-1770 | 4-2550 | 0.807 | 74.5 | -65.8 | -38.38 | 1.294 | 93.1 | 0.674 | 3.050 | 352.2 | 530.1 | 0.995 | --- | 38.46 | 0.276 | 109.0 | 161.0 | 31.8 | 0.317 |
| 4-1770 | 4-2570 | 1.520 | 89.8 | 80.6 | 81.79 | 1.294 | 94.0 | 0.672 | 3.029 | 350.1 | 531.4 | 0.992 | --- | -81.73 | 0.271 | 106.6 | 150.3 | -29.4 | 0.501 |
| 4-1770 | 4-2590 | 0.712 | 288.4 | 59.7 | 32.87 | 1.293 | 93.9 | 0.670 | 3.012 | 350.4 | 532.8 | 0.993 | --- | -32.83 | 0.268 | 104.1 | 156.9 | -28.2 | 0.288 |
| 4-1770 | 4-2610 | 0.480 | 290.8 | 38.4 | 18.72 | 1.292 | 94.0 | 0.669 | 2.998 | 350.0 | 534.1 | 0.992 | --- | -18.70 | 0.265 | 101.6 | 158.0 | -19.6 | 0.236 |
| 4-1770 | 4-2630 | 0.400 | 293.3 | 25.1 | 12.93 | 1.292 | 94.2 | 0.668 | 2.988 | 349.5 | 535.3 | 0.992 | --- | -12.93 | 0.263 | 99.3 | 157.5 | -14.2 | 0.219 |
| 4-1770 | 4-2650 | 0.365 | 295.4 | 16.3 | 9.84 | 1.291 | 94.5 | 0.668 | 2.980 | 348.9 | 536.5 | 0.991 | --- | -9.87 | 0.262 | 97.0 | 156.6 | -10.9 | 0.212 |
| 4-1770 | 4-2670 | 0.348 | 297.3 | 10.2 | 7.93 | 1.291 | 94.7 | 0.667 | 2.975 | 348.2 | 537.6 | 0.990 | --- | -7.97 | 0.260 | 94.8 | 155.6 | -8.7 | 0.207 |
| 4-1770 | 4-2690 | 0.339 | 299.1 | 5.7 | 6.63 | 1.291 | 95.0 | 0.667 | 2.971 | 347.4 | 538.7 | 0.989 | --- | -6.69 | 0.260 | 92.6 | 154.6 | -7.2 | 0.205 |
| 4-1770 | 4-2710 | 0.335 | 300.8 | 2.4 | 5.68 | 1.291 | 95.3 | 0.667 | 2.970 | 346.7 | 539.7 | 0.988 | --- | -5.77 | 0.259 | 90.5 | 153.6 | -6.0 | 0.204 |
| 4-1770 | 4-2730 | 0.333 | 302.5 | -0.1 | 4.97 | 1.291 | 95.7 | 0.668 | 2.970 | 345.8 | 540.7 | 0.986 | 4.954 | -5.08 | 0.259 | 88.5 | 152.7 | -5.1 | 0.204 |
| 4-1770 | 4-2750 | 0.332 | 304.1 | -2.0 | 4.40 | 1.291 | 96.0 | 0.669 | 2.972 | 345.0 | 541.7 | 0.985 | 4.959 | -4.53 | 0.259 | 86.6 | 152.0 | -4.3 | 0.204 |
| 4-1770 | 4-2770 | 0.333 | 305.8 | -3.6 | 3.95 | 1.291 | 96.4 | 0.670 | 2.975 | 344.0 | 542.6 | 0.983 | 4.966 | -4.10 | 0.260 | 84.8 | 151.3 | -3.7 | 0.205 |
| 4-1770 | 4-2790 | 0.335 | 307.4 | -4.8 | 3.57 | 1.291 | 96.8 | 0.671 | 2.979 | 343.1 | 543.5 | 0.981 | 4.976 | -3.75 | 0.260 | 83.0 | 150.7 | -3.2 | 0.206 |
| 4-1770 | 4-2810 | 0.338 | 309.1 | -5.7 | 3.26 | 1.292 | 97.2 | 0.672 | 2.984 | 342.1 | 544.3 | 0.979 | 4.988 | -3.45 | 0.261 | 81.3 | 150.3 | -2.8 | 0.208 |
| 4-1770 | 4-2830 | 0.341 | 310.7 | -6.5 | 2.99 | 1.292 | 97.6 | 0.673 | 2.990 | 341.1 | 545.1 | 0.977 | 5.003 | -3.20 | 0.262 | 79.6 | 149.9 | -2.4 | 0.209 |
| 4-1770 | 4-2850 | 0.345 | 312.3 | -7.1 | 2.75 | 1.292 | 98.0 | 0.675 | 2.996 | 340.1 | 545.9 | 0.974 | 5.019 | -2.99 | 0.263 | 78.1 | 149.7 | -2.1 | 0.212 |
| 4-1770 | 4-2870 | 0.349 | 313.9 | -7.6 | 2.55 | 1.293 | 98.5 | 0.677 | 3.004 | 339.0 | 546.7 | 0.972 | 5.037 | -2.81 | 0.264 | 76.5 | 149.6 | -1.8 | 0.214 |
| 4-1770 | 4-2890 | 0.354 | 315.6 | -7.9 | 2.37 | 1.293 | 98.9 | 0.678 | 3.012 | 337.9 | 547.4 | 0.969 | 5.056 | -2.65 | 0.266 | 75.1 | 149.5 | -1.6 | 0.217 |
| 4-1770 | 4-2910 | 0.359 | 317.1 | -8.2 | 2.21 | 1.293 | 99.4 | 0.680 | 3.021 | 336.8 | 548.1 | 0.966 | 5.077 | -2.51 | 0.267 | 73.7 | 149.6 | -1.4 | 0.219 |
| 4-1770 | 4-2930 | 0.365 | 318.7 | -8.4 | 2.06 | 1.294 | 99.9 | 0.683 | 3.031 | 335.6 | 548.7 | 0.962 | 5.099 | -2.39 | 0.268 | 72.3 | 149.7 | -1.2 | 0.222 |
| 4-1770 | 4-2950 | 0.370 | 320.3 | -8.5 | 1.93 | 1.294 | 100.4 | 0.685 | 3.041 | 334.4 | 549.4 | 0.959 | 5.123 | -2.28 | 0.270 | 71.1 | 150.0 | -1.1 | 0.225 |
| 4-1770 | 4-2970 | 0.377 | 321.8 | -8.6 | 1.81 | 1.295 | 100.9 | 0.687 | 3.051 | 333.2 | 550.0 | 0.955 | 5.147 | -2.18 | 0.271 | 69.8 | 150.3 | -0.9 | 0.228 |
| 4-1770 | 4-2990 | 0.383 | 323.3 | -8.6 | 1.70 | 1.295 | 101.4 | 0.690 | 3.062 | 332.0 | 550.6 | 0.951 | 5.173 | -2.09 | 0.273 | 68.6 | 150.7 | -0.8 | 0.231 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1770 | 4-3010 | 0.390 | 324.8 | -8.5 | 1.60 | 1.295 | 101.9 | 0.692 | 3.073 | 330.8 | 551.1 | 0.946 | 5.200 | -2.01 | 0.275 | 67.4 | 151.2 | -0.7 | 0.235 |
| 4-1770 | 4-3030 | 0.398 | 326.3 | -8.5 | 1.50 | 1.296 | 102.4 | 0.695 | 3.085 | 329.5 | 551.6 | 0.942 | 5.228 | -1.94 | 0.276 | 66.3 | 151.8 | -0.6 | 0.238 |
| 4-1770 | 4-3050 | 0.405 | 327.7 | -8.3 | 1.41 | 1.296 | 103.0 | 0.698 | 3.097 | 328.2 | 552.2 | 0.937 | 5.257 | -1.88 | 0.278 | 65.2 | 152.4 | -0.5 | 0.241 |
| 4-1770 | 4-3070 | 0.413 | 329.2 | -8.2 | 1.33 | 1.297 | 103.6 | 0.700 | 3.109 | 326.9 | 552.6 | 0.932 | 5.287 | -1.82 | 0.279 | 64.2 | 153.1 | -0.5 | 0.245 |
| 4-1770 | 4-3090 | 0.421 | 330.6 | -8.0 | 1.26 | 1.297 | 104.1 | 0.703 | 3.122 | 325.6 | 553.1 | 0.926 | 5.317 | -1.77 | 0.281 | 63.1 | 153.8 | -0.4 | 0.248 |
| 4-1770 | 4-3110 | 0.430 | 331.9 | -7.8 | 1.18 | 1.298 | 104.7 | 0.706 | 3.134 | 324.2 | 553.6 | 0.920 | 5.349 | -1.72 | 0.283 | 62.2 | 154.6 | -0.4 | 0.252 |
| 4-1770 | 4-3130 | 0.439 | 333.3 | -7.6 | 1.11 | 1.298 | 105.3 | 0.710 | 3.147 | 322.9 | 554.0 | 0.914 | 5.381 | -1.68 | 0.284 | 61.2 | 155.4 | -0.4 | 0.255 |
| 4-1770 | 4-3150 | 0.448 | 334.6 | -7.4 | 1.05 | 1.299 | 105.9 | 0.713 | 3.161 | 321.5 | 554.4 | 0.908 | 5.414 | -1.63 | 0.286 | 60.2 | 156.3 | -0.3 | 0.259 |
| 4-1770 | 4-3170 | 0.457 | 335.9 | -7.2 | 0.99 | 1.299 | 106.5 | 0.716 | 3.174 | 320.1 | 554.8 | 0.901 | 5.447 | -1.60 | 0.288 | 59.3 | 157.3 | -0.3 | 0.262 |
| 4-1770 | 4-3190 | 0.467 | 337.2 | -6.9 | 0.93 | 1.300 | 107.1 | 0.719 | 3.188 | 318.7 | 555.1 | 0.894 | 5.481 | -1.56 | 0.289 | 58.4 | 158.2 | -0.3 | 0.266 |
| 4-1770 | 4-3210 | 0.477 | 338.4 | -6.6 | 0.87 | 1.300 | 107.8 | 0.723 | 3.202 | 317.3 | 555.5 | 0.887 | 5.516 | -1.53 | 0.291 | 57.5 | 159.2 | -0.3 | 0.270 |
| 4-1770 | 4-3230 | 0.487 | 339.6 | -6.4 | 0.82 | 1.301 | 108.4 | 0.727 | 3.216 | 315.8 | 555.8 | 0.879 | 5.552 | -1.51 | 0.292 | 56.7 | 160.3 | -0.3 | 0.273 |
| 4-1770 | 4-3250 | 0.498 | 340.8 | -6.1 | 0.76 | 1.301 | 109.1 | 0.730 | 3.230 | 314.4 | 556.1 | 0.872 | 5.588 | -1.48 | 0.294 | 55.8 | 161.4 | -0.3 | 0.277 |
| 4-1770 | 4-3270 | 0.508 | 342.0 | -5.8 | 0.71 | 1.302 | 109.7 | 0.734 | 3.244 | 312.9 | 556.4 | 0.863 | 5.625 | -1.46 | 0.295 | 55.0 | 162.5 | -0.3 | 0.280 |
| 4-1770 | 4-3290 | 0.519 | 343.1 | -5.5 | 0.66 | 1.303 | 110.4 | 0.738 | 3.258 | 311.4 | 556.7 | 0.855 | 5.662 | -1.44 | 0.297 | 54.2 | 163.7 | -0.4 | 0.284 |
| 4-1770 | 4-3310 | 0.531 | 344.3 | -5.2 | 0.62 | 1.303 | 111.1 | 0.742 | 3.273 | 309.9 | 556.9 | 0.846 | 5.700 | -1.42 | 0.298 | 53.4 | 164.8 | -0.4 | 0.288 |
| 4-1770 | 4-3330 | 0.542 | 345.4 | -4.9 | 0.57 | 1.304 | 111.8 | 0.745 | 3.287 | 308.4 | 557.2 | 0.837 | 5.738 | -1.40 | 0.300 | 52.6 | 166.0 | -0.4 | 0.291 |
| 4-1770 | 4-3350 | 0.554 | 346.5 | -4.6 | 0.52 | 1.304 | 112.5 | 0.749 | 3.302 | 306.9 | 557.4 | 0.827 | 5.777 | -1.38 | 0.301 | 51.8 | 167.3 | -0.4 | 0.295 |
| 4-1770 | 4-3370 | 0.566 | 347.5 | -4.2 | 0.48 | 1.305 | 113.2 | 0.754 | 3.317 | 305.3 | 557.6 | 0.817 | 5.816 | -1.37 | 0.302 | 51.1 | 168.5 | -0.5 | 0.298 |
| 4-1780 | 4-2060 | 0.638 | 315.5 | -19.6 | -1.04 | 1.596 | 99.1 | 1.540 | -1.816 | 345.0 | 469.2 | 0.980 | --- | 1.57 | 0.973 | 161.2 | 176.6 | 0.7 | 0.949 |
| 4-1780 | 4-2080 | 0.582 | 313.7 | -20.4 | -1.10 | 1.548 | 97.9 | 1.393 | -2.508 | 346.5 | 472.5 | 0.985 | --- | 1.60 | 0.892 | 160.0 | 177.0 | 0.7 | 0.868 |
| 4-1780 | 4-2100 | 0.536 | 311.8 | -21.3 | -1.17 | 1.508 | 96.7 | 1.273 | -3.617 | 348.0 | 475.7 | 0.989 | --- | 1.64 | 0.821 | 158.7 | 177.4 | 0.8 | 0.796 |
| 4-1780 | 4-2120 | 0.497 | 309.7 | -22.2 | -1.23 | 1.475 | 95.7 | 1.176 | -5.643 | 349.5 | 479.0 | 0.992 | --- | 1.68 | 0.758 | 157.3 | 177.7 | 0.8 | 0.733 |
| 4-1780 | 4-2140 | 0.464 | 307.6 | -23.1 | -1.30 | 1.447 | 94.7 | 1.095 | 10.442 | 350.9 | 482.3 | 0.995 | --- | 1.72 | 0.703 | 155.9 | 178.0 | 0.8 | 0.677 |
| 4-1780 | 4-2160 | 0.437 | 305.5 | -24.0 | -1.38 | 1.423 | 93.9 | 1.028 | 35.188 | 352.4 | 485.5 | 0.997 | --- | 1.77 | 0.654 | 154.3 | 178.2 | 0.9 | 0.627 |
| 4-1780 | 4-2180 | 0.414 | 303.5 | -24.9 | -1.45 | 1.404 | 93.1 | 0.972 | 36.211 | 353.7 | 488.6 | 0.998 | --- | 1.83 | 0.610 | 152.6 | 178.3 | 1.0 | 0.583 |
| 4-1780 | 4-2200 | 0.395 | 301.5 | -25.8 | -1.54 | 1.387 | 92.4 | 0.925 | 13.404 | 355.0 | 491.7 | 0.999 | --- | 1.89 | 0.570 | 150.9 | 178.4 | 1.1 | 0.542 |
| 4-1780 | 4-2220 | 0.379 | 299.5 | -26.7 | -1.63 | 1.372 | 91.8 | 0.886 | 8.758 | 356.2 | 494.7 | 1.000 | --- | 1.95 | 0.535 | 149.1 | 178.4 | 1.2 | 0.505 |
| 4-1780 | 4-2240 | 0.366 | 297.7 | -27.5 | -1.72 | 1.360 | 91.3 | 0.852 | 6.772 | 357.3 | 497.6 | 1.001 | --- | 2.03 | 0.503 | 147.2 | 178.3 | 1.3 | 0.472 |
| 4-1780 | 4-2260 | 0.355 | 296.1 | -28.4 | -1.83 | 1.350 | 90.8 | 0.824 | 5.678 | 358.3 | 500.4 | 1.001 | --- | 2.11 | 0.474 | 145.2 | 178.1 | 1.4 | 0.442 |
| 4-1780 | 4-2280 | 0.345 | 294.6 | -29.2 | -1.94 | 1.341 | 90.4 | 0.799 | 4.992 | 359.2 | 503.0 | 1.001 | --- | 2.20 | 0.448 | 143.1 | 177.8 | 1.5 | 0.415 |
| 4-1780 | 4-2300 | 0.337 | 293.2 | -30.0 | -2.06 | 1.333 | 90.0 | 0.779 | 4.524 | 359.9 | 505.6 | 1.001 | --- | 2.30 | 0.425 | 140.9 | 177.5 | 1.7 | 0.390 |
| 4-1780 | 4-2320 | 0.331 | 292.1 | -30.8 | -2.20 | 1.326 | 89.7 | 0.761 | 4.188 | 0.6 | 148.1 | --- | --- | 2.41 | 0.404 | 138.6 | 177.0 | 1.9 | 0.367 |
| 4-1780 | 4-2340 | 0.325 | 291.2 | -31.7 | -2.35 | 1.321 | 89.5 | 0.746 | 3.937 | 1.1 | 150.5 | --- | --- | 2.54 | 0.385 | 136.3 | 176.5 | 2.1 | 0.346 |
| 4-1780 | 4-2360 | 0.321 | 290.4 | -32.6 | -2.51 | 1.316 | 89.3 | 0.733 | 3.745 | 1.6 | 152.7 | --- | --- | 2.68 | 0.368 | 133.9 | 175.8 | 2.4 | 0.328 |
| 4-1780 | 4-2380 | 0.317 | 289.9 | -33.5 | -2.70 | 1.311 | 89.2 | 0.721 | 3.594 | 1.9 | 154.9 | --- | --- | 2.85 | 0.352 | 131.4 | 175.1 | 2.7 | 0.311 |
| 4-1780 | 4-2400 | 0.314 | 289.6 | -34.5 | -2.91 | 1.308 | 89.1 | 0.712 | 3.474 | 2.2 | 157.0 | --- | --- | 3.04 | 0.339 | 128.9 | 174.2 | 3.0 | 0.295 |
| 4-1780 | 4-2420 | 0.312 | 289.5 | -35.7 | -3.15 | 1.304 | 89.0 | 0.704 | 3.377 | 2.3 | 158.9 | --- | --- | 3.26 | 0.327 | 126.4 | 173.3 | 3.4 | 0.281 |
| 4-1780 | 4-2440 | 0.311 | 289.6 | -36.9 | -3.44 | 1.302 | 89.0 | 0.697 | 3.298 | 2.4 | 160.8 | --- | --- | 3.52 | 0.316 | 123.8 | 172.2 | 3.9 | 0.269 |
| 4-1780 | 4-2460 | 0.310 | 289.9 | -38.3 | -3.77 | 1.299 | 89.0 | 0.690 | 3.233 | 2.4 | 162.6 | --- | --- | 3.83 | 0.306 | 121.2 | 171.1 | 4.4 | 0.258 |
| 4-1780 | 4-2480 | 0.310 | 290.5 | -40.0 | -4.16 | 1.297 | 89.1 | 0.685 | 3.180 | 2.3 | 164.3 | --- | --- | 4.21 | 0.298 | 118.6 | 169.8 | 5.0 | 0.248 |
| 4-1780 | 4-2500 | 0.311 | 291.3 | -41.9 | -4.65 | 1.296 | 89.1 | 0.681 | 3.136 | 2.1 | 166.0 | --- | --- | 4.67 | 0.291 | 115.9 | 168.6 | 5.7 | 0.240 |
| 4-1780 | 4-2520 | 0.313 | 292.5 | -44.3 | -5.25 | 1.294 | 89.3 | 0.677 | 3.100 | 1.8 | 167.5 | --- | --- | 5.25 | 0.285 | 113.3 | 167.2 | 6.6 | 0.232 |
| 4-1780 | 4-2540 | 0.318 | 294.0 | -47.3 | -6.02 | 1.293 | 89.4 | 0.674 | 3.071 | 1.5 | 169.0 | --- | --- | 6.00 | 0.279 | 110.8 | 165.9 | 7.7 | 0.226 |
| 4-1780 | 4-2560 | 0.325 | 296.1 | -51.0 | -7.06 | 1.292 | 89.5 | 0.671 | 3.047 | 1.1 | 170.5 | --- | --- | 7.01 | 0.275 | 108.2 | 164.5 | 9.1 | 0.222 |
| 4-1780 | 4-2580 | 0.338 | 299.2 | -56.0 | -8.51 | 1.291 | 89.7 | 0.669 | 3.027 | 0.7 | 171.8 | --- | --- | 8.45 | 0.271 | 105.7 | 163.1 | 11.0 | 0.219 |
| 4-1780 | 4-2600 | 0.361 | 304.5 | -62.6 | -10.71 | 1.291 | 89.9 | 0.668 | 3.012 | 0.2 | 173.2 | --- | --- | 10.62 | 0.268 | 103.3 | 161.7 | 13.7 | 0.218 |
| 4-1780 | 4-2620 | 0.408 | 316.9 | -71.8 | -14.40 | 1.290 | 90.1 | 0.666 | 3.000 | 359.7 | 534.4 | 1.001 | --- | 14.29 | 0.266 | 100.9 | 160.4 | 17.8 | 0.223 |
| 4-1780 | 4-2640 | 0.519 | 15.9 | -80.5 | -21.82 | 1.290 | 90.4 | 0.665 | 2.990 | 359.1 | 535.6 | 1.001 | --- | 21.69 | 0.264 | 98.6 | 159.0 | 24.7 | 0.241 |
| 4-1780 | 4-2660 | 0.871 | 88.1 | -63.0 | -42.42 | 1.289 | 90.5 | 0.664 | 2.984 | 358.7 | 536.8 | 1.001 | --- | 42.27 | 0.262 | 96.3 | 157.3 | 34.4 | 0.321 |
| 4-1780 | 4-2680 | 1.371 | 156.7 | 83.9 | 72.36 | 1.289 | 91.4 | 0.664 | 2.979 | 356.5 | 537.8 | 1.000 | --- | -72.53 | 0.261 | 94.3 | 152.2 | -31.6 | 0.456 |
| 4-1780 | 4-2700 | 0.654 | 283.4 | 57.1 | 29.86 | 1.289 | 91.5 | 0.664 | 2.977 | 356.3 | 538.9 | 1.000 | --- | -30.05 | 0.261 | 92.1 | 153.4 | -27.7 | 0.268 |
| 4-1780 | 4-2720 | 0.453 | 289.6 | 37.1 | 17.45 | 1.289 | 91.7 | 0.664 | 2.976 | 355.7 | 539.9 | 1.000 | --- | -17.66 | 0.260 | 90.1 | 153.3 | -19.1 | 0.226 |
| 4-1780 | 4-2740 | 0.382 | 293.2 | 24.4 | 12.17 | 1.289 | 92.0 | 0.664 | 2.977 | 354.9 | 540.9 | 1.000 | 4.955 | -12.40 | 0.260 | 88.2 | 152.7 | -13.8 | 0.213 |
| 4-1780 | 4-2760 | 0.350 | 296.0 | 15.8 | 9.29 | 1.289 | 92.4 | 0.665 | 2.980 | 354.0 | 541.9 | 0.999 | 4.960 | -9.54 | 0.261 | 86.3 | 152.1 | -10.5 | 0.209 |
| 4-1780 | 4-2780 | 0.334 | 298.5 | 9.9 | 7.48 | 1.289 | 92.8 | 0.665 | 2.983 | 353.1 | 542.8 | 0.998 | 4.968 | -7.75 | 0.261 | 84.5 | 151.6 | -8.3 | 0.207 |
| 4-1780 | 4-2800 | 0.326 | 300.8 | 5.6 | 6.24 | 1.290 | 93.1 | 0.666 | 2.988 | 352.2 | 543.6 | 0.997 | 4.978 | -6.53 | 0.262 | 82.8 | 151.1 | -6.7 | 0.207 |
| 4-1780 | 4-2820 | 0.322 | 303.0 | 2.4 | 5.33 | 1.290 | 93.5 | 0.667 | 2.994 | 351.2 | 544.5 | 0.996 | 4.991 | -5.65 | 0.263 | 81.2 | 150.7 | -5.6 | 0.208 |
| 4-1780 | 4-2840 | 0.320 | 305.2 | 0.0 | 4.65 | 1.290 | 93.9 | 0.668 | 3.000 | 350.2 | 545.3 | 0.995 | 5.005 | -4.98 | 0.264 | 79.6 | 150.4 | -4.7 | 0.209 |
| 4-1780 | 4-2860 | 0.320 | 307.2 | -1.8 | 4.10 | 1.290 | 94.4 | 0.669 | 3.007 | 349.1 | 546.0 | 0.994 | 5.021 | -4.46 | 0.265 | 78.1 | 150.2 | -4.0 | 0.211 |
| 4-1780 | 4-2880 | 0.322 | 309.3 | -3.3 | 3.66 | 1.291 | 94.8 | 0.671 | 3.016 | 348.0 | 546.8 | 0.992 | 5.039 | -4.04 | 0.266 | 76.7 | 150.1 | -3.4 | 0.213 |
| 4-1780 | 4-2900 | 0.324 | 311.3 | -4.4 | 3.30 | 1.291 | 95.2 | 0.672 | 3.024 | 346.9 | 547.5 | 0.991 | 5.058 | -3.69 | 0.268 | 75.3 | 150.1 | -2.9 | 0.215 |
| 4-1780 | 4-2920 | 0.326 | 313.2 | -5.2 | 2.99 | 1.292 | 95.7 | 0.674 | 3.034 | 345.8 | 548.2 | 0.989 | 5.078 | -3.41 | 0.269 | 73.9 | 150.2 | -2.5 | 0.217 |
| 4-1780 | 4-2940 | 0.330 | 315.2 | -5.9 | 2.73 | 1.292 | 96.2 | 0.676 | 3.043 | 344.7 | 548.8 | 0.987 | 5.100 | -3.16 | 0.271 | 72.6 | 150.4 | -2.2 | 0.220 |
| 4-1780 | 4-2960 | 0.334 | 317.1 | -6.4 | 2.50 | 1.292 | 96.7 | 0.678 | 3.054 | 343.5 | 549.5 | 0.985 | 5.123 | -2.96 | 0.272 | 71.4 | 150.7 | -1.9 | 0.223 |
| 4-1780 | 4-2980 | 0.338 | 319.0 | -6.7 | 2.30 | 1.293 | 97.2 | 0.680 | 3.065 | 342.3 | 550.1 | 0.982 | 5.147 | -2.78 | 0.274 | 70.2 | 151.0 | -1.7 | 0.225 |
| 4-1780 | 4-3000 | 0.343 | 320.9 | -7.0 | 2.12 | 1.293 | 97.7 | 0.682 | 3.076 | 341.1 | 550.7 | 0.979 | 5.173 | -2.62 | 0.275 | 69.1 | 151.4 | -1.5 | 0.228 |
| 4-1780 | 4-3020 | 0.348 | 322.7 | -7.1 | 1.96 | 1.294 | 98.2 | 0.684 | 3.088 | 339.8 | 551.2 | 0.976 | 5.199 | -2.49 | 0.277 | 68.0 | 151.9 | -1.3 | 0.231 |
| 4-1780 | 4-3040 | 0.354 | 324.5 | -7.2 | 1.82 | 1.294 | 98.7 | 0.686 | 3.099 | 338.6 | 551.8 | 0.973 | 5.226 | -2.37 | 0.279 | 66.9 | 152.5 | -1.2 | 0.234 |
| 4-1780 | 4-3060 | 0.360 | 326.2 | -7.2 | 1.69 | 1.295 | 99.2 | 0.688 | 3.112 | 337.3 | 552.3 | 0.970 | 5.254 | -2.26 | 0.280 | 65.9 | 153.1 | -1.0 | 0.237 |
| 4-1780 | 4-3080 | 0.366 | 328.0 | -7.1 | 1.57 | 1.295 | 99.8 | 0.691 | 3.124 | 336.0 | 552.8 | 0.966 | 5.283 | -2.16 | 0.282 | 64.9 | 153.8 | -0.9 | 0.241 |
| 4-1780 | 4-3100 | 0.373 | 329.7 | -7.0 | 1.46 | 1.296 | 100.3 | 0.693 | 3.137 | 334.7 | 553.3 | 0.962 | 5.312 | -2.08 | 0.284 | 63.9 | 154.5 | -0.9 | 0.244 |
| 4-1780 | 4-3120 | 0.380 | 331.3 | -6.9 | 1.36 | 1.296 | 100.9 | 0.696 | 3.150 | 333.3 | 553.7 | 0.958 | 5.343 | -2.00 | 0.285 | 63.0 | 155.3 | -0.8 | 0.247 |
| 4-1780 | 4-3140 | 0.387 | 332.9 | -6.7 | 1.27 | 1.297 | 101.5 | 0.699 | 3.163 | 332.0 | 554.2 | 0.953 | 5.374 | -1.93 | 0.287 | 62.1 | 156.2 | -0.7 | 0.250 |
| 4-1780 | 4-3160 | 0.395 | 334.5 | -6.5 | 1.18 | 1.297 | 102.0 | 0.702 | 3.177 | 330.6 | 554.6 | 0.948 | 5.406 | -1.87 | 0.288 | 61.2 | 157.0 | -0.7 | 0.253 |
| 4-1780 | 4-3180 | 0.403 | 336.1 | -6.3 | 1.10 | 1.298 | 102.6 | 0.704 | 3.191 | 329.3 | 555.0 | 0.943 | 5.438 | -1.81 | 0.290 | 60.3 | 158.0 | -0.6 | 0.257 |
| 4-1780 | 4-3200 | 0.411 | 337.6 | -6.0 | 1.03 | 1.298 | 103.2 | 0.707 | 3.204 | 327.9 | 555.4 | 0.938 | 5.471 | -1.76 | 0.292 | 59.5 | 158.9 | -0.6 | 0.260 |
| 4-1780 | 4-3220 | 0.420 | 339.1 | -5.7 | 0.95 | 1.299 | 103.8 | 0.710 | 3.218 | 326.5 | 555.7 | 0.932 | 5.505 | -1.71 | 0.293 | 58.7 | 159.9 | -0.6 | 0.263 |
| 4-1780 | 4-3240 | 0.429 | 340.5 | -5.4 | 0.89 | 1.299 | 104.5 | 0.714 | 3.233 | 325.0 | 556.1 | 0.926 | 5.539 | -1.67 | 0.295 | 57.9 | 161.0 | -0.6 | 0.267 |
| 4-1780 | 4-3260 | 0.438 | 341.9 | -5.1 | 0.82 | 1.300 | 105.1 | 0.717 | 3.247 | 323.6 | 556.4 | 0.920 | 5.574 | -1.63 | 0.296 | 57.1 | 162.1 | -0.6 | 0.270 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THETI | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1780 | 4-3280 | 0.448 | 343.3 | -4.8 | 0.76 | 1.300 | 105.7 | 0.720 | 3.261 | 322.2 | 556.7 | 0.913 | 5.609 | -1.59 | 0.298 | 56.3 | 163.2 | -0.6 | 0.273 |
| 4-1780 | 4-3300 | 0.457 | 344.6 | -4.5 | 0.70 | 1.301 | 106.4 | 0.723 | 3.276 | 320.7 | 557.0 | 0.906 | 5.645 | -1.56 | 0.299 | 55.6 | 164.3 | -0.6 | 0.277 |
| 4-1780 | 4-3320 | 0.468 | 346.0 | -4.1 | 0.65 | 1.301 | 107.0 | 0.727 | 3.290 | 319.2 | 557.3 | 0.899 | 5.682 | -1.53 | 0.301 | 54.8 | 165.5 | -0.6 | 0.280 |
| 4-1780 | 4-3340 | 0.478 | 347.2 | -3.8 | 0.59 | 1.302 | 107.7 | 0.730 | 3.305 | 317.8 | 557.5 | 0.892 | 5.719 | -1.50 | 0.302 | 54.1 | 166.7 | -0.6 | 0.283 |
| 4-1780 | 4-3360 | 0.488 | 348.5 | -3.5 | 0.54 | 1.303 | 108.3 | 0.734 | 3.320 | 316.3 | 557.8 | 0.884 | 5.756 | -1.47 | 0.303 | 53.4 | 167.9 | -0.6 | 0.286 |
| 4-1780 | 4-3380 | 0.499 | 349.7 | -3.1 | 0.49 | 1.303 | 109.0 | 0.737 | 3.335 | 314.8 | 558.0 | 0.876 | 5.794 | -1.45 | 0.305 | 52.6 | 169.1 | -0.6 | 0.290 |
| 4-1790 | 4-2070 | 0.594 | 311.2 | -20.7 | -0.97 | 1.581 | 93.5 | 1.509 | -1.968 | 354.1 | 469.4 | 1.001 | --- | 1.38 | 0.951 | 160.7 | 177.4 | 0.6 | 0.925 |
| 4-1790 | 4-2090 | 0.544 | 308.8 | -21.6 | -1.02 | 1.535 | 92.5 | 1.364 | -2.754 | 355.7 | 472.8 | 1.002 | --- | 1.40 | 0.872 | 159.5 | 177.7 | 0.6 | 0.846 |
| 4-1790 | 4-2110 | 0.503 | 306.3 | -22.5 | -1.07 | 1.496 | 91.5 | 1.247 | -4.058 | 357.4 | 476.2 | 1.003 | --- | 1.43 | 0.803 | 158.2 | 178.0 | 0.7 | 0.776 |
| 4-1790 | 4-2130 | 0.470 | 303.7 | -23.4 | -1.12 | 1.464 | 90.5 | 1.152 | -6.595 | 359.0 | 479.6 | 1.004 | --- | 1.45 | 0.742 | 156.8 | 178.3 | 0.7 | 0.715 |
| 4-1790 | 4-2150 | 0.442 | 301.1 | -24.3 | -1.17 | 1.437 | 89.7 | 1.074 | 13.557 | 0.6 | 123.0 | --- | --- | 1.48 | 0.687 | 155.3 | 178.5 | 0.7 | 0.661 |
| 4-1790 | 4-2170 | 0.420 | 298.5 | -25.1 | -1.23 | 1.415 | 88.9 | 1.010 | 05.066 | 2.1 | 126.3 | --- | --- | 1.51 | 0.639 | 153.7 | 178.6 | 0.8 | 0.612 |
| 4-1790 | 4-2190 | 0.401 | 296.0 | -25.8 | -1.29 | 1.396 | 88.3 | 0.956 | 22.730 | 3.5 | 129.5 | --- | --- | 1.54 | 0.596 | 152.0 | 178.7 | 0.8 | 0.568 |
| 4-1790 | 4-2210 | 0.386 | 293.6 | -26.6 | -1.35 | 1.380 | 87.7 | 0.911 | 11.253 | 4.9 | 132.6 | --- | --- | 1.58 | 0.558 | 150.3 | 178.7 | 0.9 | 0.529 |
| 4-1790 | 4-2230 | 0.373 | 291.4 | -27.2 | -1.41 | 1.366 | 87.2 | 0.873 | 7.897 | 6.1 | 135.7 | --- | --- | 1.62 | 0.523 | 148.4 | 178.6 | 1.0 | 0.493 |
| 4-1790 | 4-2250 | 0.363 | 289.4 | -27.8 | -1.48 | 1.354 | 86.7 | 0.841 | 6.306 | 7.2 | 138.6 | --- | --- | 1.66 | 0.492 | 146.5 | 178.4 | 1.1 | 0.461 |
| 4-1790 | 4-2270 | 0.354 | 287.6 | -28.4 | -1.55 | 1.344 | 86.3 | 0.814 | 5.386 | 8.2 | 141.4 | --- | --- | 1.71 | 0.464 | 144.4 | 178.2 | 1.2 | 0.432 |
| 4-1790 | 4-2290 | 0.347 | 285.9 | -28.9 | -1.63 | 1.335 | 86.0 | 0.792 | 4.790 | 9.1 | 144.1 | --- | --- | 1.77 | 0.439 | 142.3 | 177.9 | 1.3 | 0.405 |
| 4-1790 | 4-2310 | 0.341 | 284.6 | -29.5 | -1.71 | 1.328 | 85.7 | 0.772 | 4.377 | 9.9 | 146.7 | --- | --- | 1.82 | 0.416 | 140.1 | 177.5 | 1.4 | 0.381 |
| 4-1790 | 4-2330 | 0.335 | 283.4 | -30.0 | -1.80 | 1.322 | 85.5 | 0.755 | 4.076 | 10.5 | 149.1 | --- | --- | 1.89 | 0.396 | 137.8 | 176.9 | 1.6 | 0.359 |
| 4-1790 | 4-2350 | 0.331 | 282.4 | -30.5 | -1.89 | 1.316 | 85.3 | 0.741 | 3.850 | 11.1 | 151.5 | --- | --- | 1.96 | 0.377 | 135.4 | 176.3 | 1.7 | 0.339 |
| 4-1790 | 4-2370 | 0.327 | 281.6 | -31.0 | -1.99 | 1.311 | 85.2 | 0.729 | 3.675 | 11.5 | 153.7 | --- | --- | 2.04 | 0.361 | 133.0 | 175.6 | 1.9 | 0.321 |
| 4-1790 | 4-2390 | 0.324 | 281.1 | -31.6 | -2.10 | 1.307 | 85.1 | 0.719 | 3.537 | 11.8 | 155.9 | --- | --- | 2.13 | 0.346 | 130.5 | 174.8 | 2.1 | 0.304 |
| 4-1790 | 4-2410 | 0.321 | 280.7 | -32.1 | -2.22 | 1.304 | 85.0 | 0.710 | 3.427 | 12.0 | 157.9 | --- | --- | 2.23 | 0.333 | 128.0 | 173.9 | 2.4 | 0.289 |
| 4-1790 | 4-2430 | 0.319 | 280.6 | -32.7 | -2.36 | 1.301 | 85.0 | 0.702 | 3.338 | 12.1 | 159.8 | --- | --- | 2.34 | 0.322 | 125.4 | 172.9 | 2.6 | 0.276 |
| 4-1790 | 4-2450 | 0.317 | 280.6 | -33.4 | -2.50 | 1.298 | 85.0 | 0.695 | 3.265 | 12.1 | 161.7 | --- | --- | 2.46 | 0.311 | 122.8 | 171.8 | 2.9 | 0.264 |
| 4-1790 | 4-2470 | 0.315 | 280.8 | -34.1 | -2.67 | 1.296 | 85.1 | 0.690 | 3.206 | 12.1 | 163.4 | --- | --- | 2.60 | 0.302 | 120.1 | 170.6 | 3.2 | 0.253 |
| 4-1790 | 4-2490 | 0.313 | 281.2 | -34.9 | -2.85 | 1.294 | 85.2 | 0.685 | 3.157 | 11.9 | 165.1 | --- | --- | 2.77 | 0.295 | 117.5 | 169.3 | 3.5 | 0.244 |
| 4-1790 | 4-2510 | 0.312 | 281.7 | -35.8 | -3.06 | 1.293 | 85.3 | 0.681 | 3.117 | 11.7 | 166.7 | --- | --- | 2.96 | 0.288 | 114.9 | 168.0 | 3.9 | 0.236 |
| 4-1790 | 4-2530 | 0.311 | 282.4 | -36.8 | -3.30 | 1.291 | 85.4 | 0.677 | 3.084 | 11.4 | 168.2 | --- | --- | 3.17 | 0.282 | 112.3 | 166.7 | 4.3 | 0.228 |
| 4-1790 | 4-2550 | 0.311 | 283.3 | -37.9 | -3.58 | 1.290 | 85.6 | 0.674 | 3.058 | 11.0 | 169.7 | --- | --- | 3.43 | 0.277 | 109.7 | 165.3 | 4.8 | 0.222 |
| 4-1790 | 4-2570 | 0.310 | 284.3 | -39.3 | -3.91 | 1.289 | 85.7 | 0.672 | 3.036 | 10.6 | 171.1 | --- | --- | 3.74 | 0.273 | 107.2 | 163.9 | 5.3 | 0.217 |
| 4-1790 | 4-2590 | 0.311 | 285.6 | -40.8 | -4.30 | 1.289 | 86.0 | 0.669 | 3.019 | 10.1 | 172.4 | --- | --- | 4.11 | 0.270 | 104.7 | 162.6 | 6.0 | 0.213 |
| 4-1790 | 4-2610 | 0.312 | 287.1 | -42.7 | -4.78 | 1.288 | 86.2 | 0.668 | 3.005 | 9.5 | 173.7 | --- | --- | 4.57 | 0.267 | 102.3 | 161.2 | 6.7 | 0.210 |
| 4-1790 | 4-2630 | 0.315 | 288.8 | -45.0 | -5.38 | 1.288 | 86.4 | 0.666 | 2.995 | 8.9 | 174.9 | --- | --- | 5.16 | 0.265 | 100.0 | 159.9 | 7.6 | 0.207 |
| 4-1790 | 4-2650 | 0.319 | 290.9 | -47.9 | -6.16 | 1.287 | 86.7 | 0.665 | 2.987 | 8.3 | 176.1 | --- | --- | 5.91 | 0.263 | 97.7 | 158.7 | 8.6 | 0.206 |
| 4-1790 | 4-2670 | 0.327 | 293.5 | -51.7 | -7.21 | 1.287 | 87.0 | 0.664 | 2.982 | 7.6 | 177.2 | --- | --- | 6.94 | 0.262 | 95.5 | 157.6 | 10.0 | 0.205 |
| 4-1790 | 4-2690 | 0.340 | 297.0 | -56.7 | -8.69 | 1.287 | 87.3 | 0.664 | 2.979 | 6.8 | 178.3 | --- | --- | 8.41 | 0.261 | 93.4 | 156.6 | 11.9 | 0.206 |
| 4-1790 | 4-2710 | 0.364 | 302.5 | -63.6 | -10.97 | 1.287 | 87.6 | 0.664 | 2.977 | 6.1 | 179.3 | --- | --- | 10.66 | 0.261 | 91.4 | 155.7 | 14.6 | 0.210 |
| 4-1790 | 4-2730 | 0.414 | 315.3 | -73.3 | -14.88 | 1.287 | 87.9 | 0.663 | 2.978 | 5.3 | 180.3 | --- | 4.953 | 14.55 | 0.261 | 89.4 | 155.1 | 18.8 | 0.218 |
| 4-1790 | 4-2750 | 0.538 | 29.9 | -82.1 | -23.04 | 1.287 | 88.2 | 0.663 | 2.980 | 4.5 | 181.3 | --- | 4.957 | 22.70 | 0.261 | 87.5 | 155.0 | 25.9 | 0.242 |
| 4-1790 | 4-2770 | 0.958 | 98.9 | -59.9 | -47.54 | 1.287 | 88.5 | 0.664 | 2.983 | 3.9 | 182.2 | --- | 4.963 | 47.18 | 0.261 | 85.7 | 156.5 | 35.3 | 0.342 |
| 4-1790 | 4-2790 | 1.192 | 219.2 | 79.4 | 61.36 | 1.287 | 89.4 | 0.664 | 2.987 | 1.6 | 183.0 | --- | 4.971 | -61.75 | 0.262 | 84.1 | 154.0 | -32.9 | 0.408 |
| 4-1790 | 4-2810 | 0.590 | 282.5 | 52.1 | 26.16 | 1.288 | 89.6 | 0.665 | 2.993 | 1.1 | 183.9 | --- | 4.982 | -26.57 | 0.263 | 82.4 | 151.6 | -25.5 | 0.258 |
| 4-1790 | 4-2830 | 0.426 | 290.4 | 33.6 | 15.70 | 1.288 | 89.9 | 0.665 | 2.999 | 0.2 | 184.7 | --- | 4.995 | -16.12 | 0.264 | 80.8 | 151.0 | -17.2 | 0.226 |
| 4-1790 | 4-2850 | 0.366 | 294.8 | 21.8 | 11.06 | 1.288 | 90.3 | 0.666 | 3.007 | 359.2 | 545.5 | 1.004 | 5.009 | -11.50 | 0.265 | 79.3 | 150.7 | -12.3 | 0.218 |
| 4-1790 | 4-2870 | 0.339 | 298.2 | 13.9 | 8.47 | 1.289 | 90.7 | 0.667 | 3.015 | 358.2 | 546.2 | 1.004 | 5.025 | -8.93 | 0.266 | 77.9 | 150.5 | -9.3 | 0.215 |
| 4-1790 | 4-2890 | 0.325 | 301.2 | 8.4 | 6.82 | 1.289 | 91.2 | 0.668 | 3.023 | 357.1 | 547.0 | 1.004 | 5.043 | -7.30 | 0.268 | 76.5 | 150.5 | -7.4 | 0.215 |
| 4-1790 | 4-2910 | 0.318 | 303.9 | 4.5 | 5.67 | 1.289 | 91.6 | 0.669 | 3.033 | 356.0 | 547.7 | 1.003 | 5.062 | -6.18 | 0.269 | 75.1 | 150.5 | -6.0 | 0.216 |
| 4-1790 | 4-2930 | 0.315 | 306.4 | 1.6 | 4.84 | 1.290 | 92.1 | 0.671 | 3.043 | 354.9 | 548.4 | 1.002 | 5.083 | -5.36 | 0.271 | 73.9 | 150.7 | -4.9 | 0.218 |
| 4-1790 | 4-2950 | 0.313 | 308.9 | -0.5 | 4.19 | 1.290 | 92.5 | 0.672 | 3.053 | 353.7 | 549.0 | 1.002 | 5.104 | -4.74 | 0.272 | 72.6 | 150.9 | -4.1 | 0.220 |
| 4-1790 | 4-2970 | 0.313 | 311.3 | -2.2 | 3.68 | 1.291 | 93.0 | 0.673 | 3.064 | 352.5 | 549.6 | 1.001 | 5.127 | -4.25 | 0.274 | 71.5 | 151.2 | -3.5 | 0.222 |
| 4-1790 | 4-2990 | 0.314 | 313.6 | -3.4 | 3.27 | 1.291 | 93.5 | 0.675 | 3.075 | 351.3 | 550.2 | 0.999 | 5.151 | -3.86 | 0.276 | 70.3 | 151.6 | -3.0 | 0.224 |
| 4-1790 | 4-3010 | 0.317 | 315.9 | -4.3 | 2.93 | 1.292 | 94.0 | 0.677 | 3.087 | 350.1 | 550.8 | 0.998 | 5.176 | -3.53 | 0.277 | 69.3 | 152.0 | -2.6 | 0.227 |
| 4-1790 | 4-3030 | 0.319 | 318.1 | -5.0 | 2.64 | 1.292 | 94.5 | 0.678 | 3.099 | 348.9 | 551.4 | 0.996 | 5.201 | -3.26 | 0.279 | 68.2 | 152.5 | -2.3 | 0.230 |
| 4-1790 | 4-3050 | 0.322 | 320.3 | -5.4 | 2.39 | 1.293 | 95.0 | 0.680 | 3.111 | 347.6 | 551.9 | 0.995 | 5.228 | -3.04 | 0.281 | 67.2 | 153.1 | -2.0 | 0.232 |
| 4-1790 | 4-3070 | 0.326 | 322.4 | -5.8 | 2.17 | 1.293 | 95.5 | 0.682 | 3.124 | 346.3 | 552.4 | 0.993 | 5.255 | -2.84 | 0.282 | 66.2 | 153.8 | -1.8 | 0.235 |
| 4-1790 | 4-3090 | 0.331 | 324.5 | -6.0 | 1.98 | 1.294 | 96.1 | 0.684 | 3.137 | 345.1 | 552.9 | 0.990 | 5.283 | -2.67 | 0.284 | 65.3 | 154.5 | -1.6 | 0.238 |
| 4-1790 | 4-3110 | 0.335 | 326.6 | -6.0 | 1.81 | 1.294 | 96.6 | 0.686 | 3.150 | 343.7 | 553.4 | 0.988 | 5.312 | -2.52 | 0.286 | 64.4 | 155.2 | -1.4 | 0.241 |
| 4-1790 | 4-3130 | 0.340 | 328.6 | -6.1 | 1.66 | 1.295 | 97.2 | 0.689 | 3.163 | 342.4 | 553.9 | 0.985 | 5.342 | -2.39 | 0.287 | 63.5 | 156.0 | -1.3 | 0.244 |
| 4-1790 | 4-3150 | 0.346 | 330.6 | -6.0 | 1.53 | 1.295 | 97.7 | 0.691 | 3.177 | 341.1 | 554.3 | 0.982 | 5.372 | -2.28 | 0.289 | 62.7 | 156.8 | -1.2 | 0.247 |
| 4-1790 | 4-3170 | 0.352 | 332.5 | -5.9 | 1.40 | 1.296 | 98.3 | 0.693 | 3.191 | 339.7 | 554.7 | 0.979 | 5.403 | -2.18 | 0.290 | 61.8 | 157.7 | -1.1 | 0.250 |
| 4-1790 | 4-3190 | 0.358 | 334.4 | -5.7 | 1.29 | 1.296 | 98.9 | 0.696 | 3.205 | 338.4 | 555.2 | 0.975 | 5.435 | -2.09 | 0.292 | 61.0 | 158.7 | -1.0 | 0.253 |
| 4-1790 | 4-3210 | 0.365 | 336.2 | -5.5 | 1.19 | 1.297 | 99.4 | 0.698 | 3.219 | 337.0 | 555.5 | 0.971 | 5.467 | -2.00 | 0.294 | 60.2 | 159.6 | -0.9 | 0.256 |
| 4-1790 | 4-3230 | 0.372 | 338.0 | -5.2 | 1.09 | 1.297 | 100.0 | 0.701 | 3.233 | 335.6 | 555.9 | 0.967 | 5.499 | -1.93 | 0.295 | 59.5 | 160.6 | -0.9 | 0.259 |
| 4-1790 | 4-3250 | 0.379 | 339.7 | -4.9 | 1.00 | 1.298 | 100.6 | 0.704 | 3.248 | 334.2 | 556.3 | 0.963 | 5.532 | -1.86 | 0.297 | 58.7 | 161.7 | -0.8 | 0.262 |
| 4-1790 | 4-3270 | 0.387 | 341.4 | -4.6 | 0.92 | 1.298 | 101.2 | 0.706 | 3.262 | 332.8 | 556.6 | 0.958 | 5.566 | -1.80 | 0.298 | 58.0 | 162.7 | -0.8 | 0.265 |
| 4-1790 | 4-3290 | 0.395 | 343.1 | -4.3 | 0.84 | 1.299 | 101.8 | 0.709 | 3.277 | 331.4 | 557.0 | 0.953 | 5.600 | -1.75 | 0.300 | 57.3 | 163.8 | -0.8 | 0.268 |
| 4-1790 | 4-3310 | 0.403 | 344.7 | -3.9 | 0.77 | 1.299 | 102.5 | 0.712 | 3.291 | 329.9 | 557.3 | 0.948 | 5.635 | -1.70 | 0.301 | 56.6 | 164.9 | -0.8 | 0.271 |
| 4-1790 | 4-3330 | 0.412 | 346.2 | -3.5 | 0.70 | 1.300 | 103.1 | 0.715 | 3.306 | 328.5 | 557.6 | 0.942 | 5.670 | -1.65 | 0.303 | 55.9 | 166.1 | -0.8 | 0.274 |
| 4-1790 | 4-3350 | 0.421 | 347.8 | -3.2 | 0.64 | 1.300 | 103.7 | 0.718 | 3.321 | 327.0 | 557.8 | 0.936 | 5.706 | -1.61 | 0.304 | 55.2 | 167.3 | -0.8 | 0.277 |
| 4-1790 | 4-3370 | 0.430 | 349.3 | -2.8 | 0.58 | 1.301 | 104.4 | 0.721 | 3.336 | 325.5 | 558.1 | 0.930 | 5.742 | -1.57 | 0.305 | 54.5 | 168.5 | -0.8 | 0.280 |
| 4-1790 | 4-3390 | 0.439 | 350.7 | -2.4 | 0.52 | 1.301 | 105.0 | 0.724 | 3.351 | 324.1 | 558.4 | 0.924 | 5.779 | -1.54 | 0.307 | 53.9 | 169.7 | -0.8 | 0.283 |
| 4-1800 | 4-2060 | 0.626 | 307.7 | -21.3 | -0.89 | 1.619 | 88.7 | 1.638 | -1.576 | 2.1 | 106.8 | --- | --- | 1.21 | 1.015 | 161.4 | 177.6 | 0.5 | 0.988 |
| 4-1800 | 4-2080 | 0.572 | 304.9 | -22.2 | -0.93 | 1.565 | 87.7 | 1.464 | -2.168 | 3.9 | 110.3 | --- | --- | 1.22 | 0.926 | 160.3 | 177.9 | 0.5 | 0.900 |
| 4-1800 | 4-2100 | 0.529 | 301.9 | -23.1 | -0.97 | 1.520 | 86.8 | 1.325 | -3.092 | 5.7 | 113.9 | --- | --- | 1.23 | 0.849 | 159.0 | 178.1 | 0.6 | 0.823 |
| 4-1800 | 4-2120 | 0.495 | 298.9 | -23.9 | -1.01 | 1.483 | 85.9 | 1.213 | -4.699 | 7.4 | 117.4 | --- | --- | 1.24 | 0.782 | 157.7 | 178.4 | 0.6 | 0.755 |
| 4-1800 | 4-2140 | 0.467 | 295.9 | -24.6 | -1.05 | 1.452 | 85.2 | 1.123 | -8.143 | 9.2 | 120.9 | --- | --- | 1.26 | 0.722 | 156.3 | 178.6 | 0.6 | 0.696 |
| 4-1800 | 4-2160 | 0.445 | 293.0 | -25.3 | -1.10 | 1.427 | 84.5 | 1.049 | 20.423 | 10.8 | 124.4 | --- | --- | 1.27 | 0.669 | 154.8 | 178.7 | 0.6 | 0.643 |
| 4-1800 | 4-2180 | 0.427 | 290.2 | -25.9 | -1.14 | 1.405 | 83.8 | 0.988 | 83.361 | 12.4 | 127.8 | --- | --- | 1.29 | 0.622 | 153.2 | 178.7 | 0.7 | 0.596 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THETI THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1800 | 4-2200 | 0.412 | 287.6 | -26.4 | -1.18 | 1.387 | 83.3 | 0.938 | 15.921 | 13.9 | 131.0 | --- | --- | 1.31 | 0.580 | 151.5 | 178.7 | 0.7 | 0.553 |
| 4-1800 | 4-2220 | 0.401 | 285.2 | -26.9 | -1.23 | 1.372 | 82.8 | 0.896 | 9.492 | 15.3 | 134.2 | --- | --- | 1.33 | 0.543 | 149.7 | 178.7 | 0.8 | 0.515 |
| 4-1800 | 4-2240 | 0.391 | 283.1 | -27.3 | -1.28 | 1.359 | 82.4 | 0.861 | 7.085 | 16.5 | 137.3 | --- | --- | 1.36 | 0.509 | 147.8 | 178.5 | 0.8 | 0.480 |
| 4-1800 | 4-2260 | 0.383 | 281.1 | -27.7 | -1.33 | 1.347 | 82.0 | 0.831 | 5.835 | 17.7 | 140.2 | --- | --- | 1.38 | 0.479 | 145.8 | 178.3 | 0.9 | 0.449 |
| 4-1800 | 4-2280 | 0.377 | 279.5 | -28.0 | -1.38 | 1.338 | 81.7 | 0.806 | 5.075 | 18.7 | 143.0 | --- | --- | 1.41 | 0.452 | 143.7 | 178.0 | 1.0 | 0.421 |
| 4-1800 | 4-2300 | 0.371 | 278.0 | -28.4 | -1.44 | 1.330 | 81.4 | 0.785 | 4.570 | 19.5 | 145.7 | --- | --- | 1.44 | 0.427 | 141.6 | 177.5 | 1.1 | 0.395 |
| 4-1800 | 4-2320 | 0.366 | 276.8 | -28.6 | -1.50 | 1.323 | 81.2 | 0.767 | 4.212 | 20.3 | 148.2 | --- | --- | 1.48 | 0.405 | 139.3 | 177.0 | 1.2 | 0.372 |
| 4-1800 | 4-2340 | 0.362 | 275.8 | -28.9 | -1.56 | 1.317 | 81.1 | 0.752 | 3.948 | 20.9 | 150.6 | --- | --- | 1.52 | 0.386 | 137.0 | 176.4 | 1.3 | 0.351 |
| 4-1800 | 4-2360 | 0.359 | 275.0 | -29.2 | -1.62 | 1.311 | 80.9 | 0.739 | 3.747 | 21.3 | 152.9 | --- | --- | 1.56 | 0.368 | 134.5 | 175.7 | 1.5 | 0.331 |
| 4-1800 | 4-2380 | 0.355 | 274.4 | -29.5 | -1.69 | 1.307 | 80.9 | 0.728 | 3.591 | 21.7 | 155.1 | --- | --- | 1.61 | 0.352 | 132.1 | 175.0 | 1.6 | 0.314 |
| 4-1800 | 4-2400 | 0.352 | 274.0 | -29.8 | -1.76 | 1.303 | 80.8 | 0.718 | 3.467 | 22.0 | 157.2 | --- | --- | 1.66 | 0.338 | 129.5 | 174.1 | 1.8 | 0.298 |
| 4-1800 | 4-2420 | 0.350 | 273.7 | -30.2 | -1.84 | 1.300 | 80.8 | 0.710 | 3.368 | 22.1 | 159.2 | --- | --- | 1.71 | 0.326 | 126.9 | 173.1 | 1.9 | 0.284 |
| 4-1800 | 4-2440 | 0.347 | 273.6 | -30.5 | -1.92 | 1.297 | 80.9 | 0.703 | 3.288 | 22.2 | 161.0 | --- | --- | 1.77 | 0.315 | 124.3 | 172.0 | 2.1 | 0.271 |
| 4-1800 | 4-2460 | 0.344 | 273.7 | -30.9 | -2.01 | 1.295 | 80.9 | 0.697 | 3.223 | 22.1 | 162.8 | --- | --- | 1.84 | 0.305 | 121.7 | 170.9 | 2.3 | 0.260 |
| 4-1800 | 4-2480 | 0.342 | 273.9 | -31.3 | -2.11 | 1.293 | 81.0 | 0.692 | 3.169 | 22.0 | 164.5 | --- | --- | 1.92 | 0.296 | 119.0 | 169.6 | 2.5 | 0.250 |
| 4-1800 | 4-2500 | 0.340 | 274.3 | -31.7 | -2.21 | 1.291 | 81.1 | 0.687 | 3.126 | 21.8 | 166.1 | --- | --- | 2.00 | 0.289 | 116.3 | 168.4 | 2.8 | 0.241 |
| 4-1800 | 4-2520 | 0.337 | 274.8 | -32.2 | -2.33 | 1.290 | 81.3 | 0.683 | 3.090 | 21.5 | 167.7 | --- | --- | 2.10 | 0.283 | 113.7 | 167.0 | 3.0 | 0.233 |
| 4-1800 | 4-2540 | 0.335 | 275.4 | -32.7 | -2.45 | 1.288 | 81.5 | 0.680 | 3.061 | 21.1 | 169.1 | --- | --- | 2.20 | 0.278 | 111.1 | 165.7 | 3.3 | 0.226 |
| 4-1800 | 4-2560 | 0.333 | 276.1 | -33.3 | -2.59 | 1.287 | 81.7 | 0.677 | 3.037 | 20.7 | 170.5 | --- | --- | 2.32 | 0.273 | 108.5 | 164.3 | 3.6 | 0.221 |
| 4-1800 | 4-2580 | 0.331 | 277.0 | -33.9 | -2.75 | 1.287 | 81.9 | 0.675 | 3.018 | 20.2 | 171.9 | --- | --- | 2.46 | 0.269 | 106.0 | 163.0 | 3.9 | 0.216 |
| 4-1800 | 4-2600 | 0.329 | 278.0 | -34.7 | -2.93 | 1.286 | 82.1 | 0.673 | 3.003 | 19.7 | 173.2 | --- | --- | 2.61 | 0.266 | 103.6 | 161.6 | 4.2 | 0.212 |
| 4-1800 | 4-2620 | 0.327 | 279.1 | -35.5 | -3.13 | 1.286 | 82.4 | 0.671 | 2.992 | 19.1 | 174.4 | --- | --- | 2.79 | 0.264 | 101.2 | 160.3 | 4.5 | 0.208 |
| 4-1800 | 4-2640 | 0.325 | 280.4 | -36.4 | -3.36 | 1.285 | 82.6 | 0.669 | 2.984 | 18.4 | 175.6 | --- | --- | 3.01 | 0.262 | 98.9 | 159.1 | 4.9 | 0.206 |
| 4-1800 | 4-2660 | 0.324 | 281.8 | -37.5 | -3.62 | 1.285 | 82.9 | 0.668 | 2.978 | 17.7 | 176.7 | --- | --- | 3.25 | 0.261 | 96.6 | 157.9 | 5.3 | 0.204 |
| 4-1800 | 4-2680 | 0.323 | 283.3 | -38.7 | -3.94 | 1.285 | 83.2 | 0.667 | 2.974 | 16.9 | 177.8 | --- | --- | 3.55 | 0.260 | 94.5 | 156.8 | 5.8 | 0.203 |
| 4-1800 | 4-2700 | 0.323 | 285.0 | -40.2 | -4.32 | 1.285 | 83.5 | 0.667 | 2.972 | 16.2 | 178.8 | --- | --- | 3.91 | 0.260 | 92.4 | 155.8 | 6.3 | 0.202 |
| 4-1800 | 4-2720 | 0.323 | 286.9 | -41.9 | -4.79 | 1.285 | 83.9 | 0.666 | 2.973 | 15.3 | 179.8 | --- | --- | 4.36 | 0.260 | 90.4 | 154.9 | 6.9 | 0.202 |
| 4-1800 | 4-2740 | 0.325 | 289.0 | -44.1 | -5.38 | 1.285 | 84.2 | 0.666 | 2.974 | 14.5 | 180.8 | --- | 4.955 | 4.93 | 0.260 | 88.5 | 154.1 | 7.7 | 0.203 |
| 4-1800 | 4-2760 | 0.328 | 291.4 | -46.9 | -6.14 | 1.285 | 84.6 | 0.666 | 2.977 | 13.6 | 181.7 | --- | 4.959 | 5.67 | 0.260 | 86.7 | 153.5 | 8.6 | 0.204 |
| 4-1800 | 4-2780 | 0.334 | 294.3 | -50.6 | -7.17 | 1.285 | 85.0 | 0.666 | 2.982 | 12.6 | 182.6 | --- | 4.967 | 6.69 | 0.261 | 84.9 | 152.9 | 9.9 | 0.206 |
| 4-1800 | 4-2800 | 0.346 | 298.0 | -55.5 | -8.66 | 1.285 | 85.3 | 0.666 | 2.987 | 11.7 | 183.4 | --- | 4.976 | 8.16 | 0.262 | 83.3 | 152.6 | 11.6 | 0.209 |
| 4-1800 | 4-2820 | 0.369 | 303.6 | -62.5 | -10.97 | 1.286 | 85.7 | 0.666 | 2.994 | 10.7 | 184.2 | --- | 4.987 | 10.45 | 0.263 | 81.7 | 152.4 | 14.2 | 0.213 |
| 4-1800 | 4-2840 | 0.420 | 315.7 | -72.6 | -15.04 | 1.286 | 86.1 | 0.666 | 3.001 | 9.7 | 185.0 | --- | 5.001 | 14.50 | 0.264 | 80.1 | 152.6 | 18.4 | 0.223 |
| 4-1800 | 4-2860 | 0.556 | 35.8 | -82.7 | -24.00 | 1.286 | 86.5 | 0.667 | 3.009 | 8.7 | 185.8 | --- | 5.016 | 23.44 | 0.265 | 78.7 | 153.8 | 25.8 | 0.250 |
| 4-1800 | 4-2880 | 1.065 | 108.6 | -56.7 | -53.87 | 1.287 | 86.8 | 0.668 | 3.018 | 8.0 | 186.5 | --- | 5.033 | 53.29 | 0.267 | 77.3 | 159.0 | 35.1 | 0.374 |
| 4-1800 | 4-2900 | 1.004 | 245.5 | 71.7 | 50.25 | 1.287 | 87.7 | 0.668 | 3.027 | 5.7 | 187.2 | --- | 5.050 | -50.84 | 0.268 | 76.0 | 155.4 | -32.5 | 0.364 |
| 4-1800 | 4-2920 | 0.527 | 285.0 | 45.7 | 22.25 | 1.287 | 88.0 | 0.669 | 3.037 | 4.9 | 187.9 | --- | 5.069 | -22.86 | 0.270 | 74.7 | 151.8 | -22.1 | 0.253 |
| 4-1800 | 4-2940 | 0.399 | 293.4 | 28.8 | 13.66 | 1.288 | 88.5 | 0.670 | 3.048 | 3.8 | 188.6 | --- | 5.090 | -14.30 | 0.272 | 73.5 | 151.3 | -14.6 | 0.232 |
| 4-1800 | 4-2960 | 0.352 | 298.2 | 18.0 | 9.71 | 1.288 | 88.9 | 0.671 | 3.059 | 2.7 | 189.2 | --- | 5.112 | -10.36 | 0.273 | 72.3 | 151.4 | -10.5 | 0.227 |
| 4-1800 | 4-2980 | 0.330 | 301.9 | 11.0 | 7.45 | 1.289 | 89.4 | 0.672 | 3.070 | 1.5 | 189.8 | --- | 5.134 | -8.12 | 0.275 | 71.2 | 151.6 | -7.9 | 0.226 |
| 4-1800 | 4-3000 | 0.319 | 305.2 | 6.1 | 5.99 | 1.289 | 89.9 | 0.673 | 3.082 | 0.3 | 190.4 | --- | 5.158 | -6.68 | 0.277 | 70.2 | 152.0 | -6.2 | 0.227 |
| 4-1800 | 4-3020 | 0.313 | 308.1 | 2.8 | 4.97 | 1.290 | 90.4 | 0.675 | 3.095 | 359.1 | 551.0 | 1.007 | 5.182 | -5.68 | 0.278 | 69.1 | 152.5 | -5.1 | 0.228 |
| 4-1800 | 4-3040 | 0.310 | 310.9 | 0.3 | 4.22 | 1.290 | 90.9 | 0.676 | 3.107 | 357.9 | 551.6 | 1.006 | 5.208 | -4.94 | 0.280 | 68.1 | 153.0 | -4.2 | 0.230 |
| 4-1800 | 4-3060 | 0.309 | 313.6 | -1.5 | 3.64 | 1.291 | 91.4 | 0.678 | 3.120 | 356.6 | 552.1 | 1.006 | 5.234 | -4.38 | 0.282 | 67.2 | 153.7 | -3.5 | 0.232 |
| 4-1800 | 4-3080 | 0.309 | 316.2 | -2.8 | 3.17 | 1.291 | 91.9 | 0.679 | 3.133 | 355.4 | 552.6 | 1.005 | 5.261 | -3.94 | 0.284 | 66.3 | 154.3 | -3.0 | 0.235 |
| 4-1800 | 4-3100 | 0.310 | 318.7 | -3.7 | 2.80 | 1.292 | 92.4 | 0.681 | 3.147 | 354.1 | 553.1 | 1.005 | 5.288 | -3.58 | 0.285 | 65.4 | 155.0 | -2.6 | 0.237 |
| 4-1800 | 4-3120 | 0.312 | 321.2 | -4.4 | 2.48 | 1.292 | 92.9 | 0.682 | 3.160 | 352.8 | 553.6 | 1.003 | 5.317 | -3.28 | 0.287 | 64.5 | 155.8 | -2.3 | 0.240 |
| 4-1800 | 4-3140 | 0.315 | 323.6 | -4.8 | 2.22 | 1.293 | 93.5 | 0.684 | 3.174 | 351.4 | 554.0 | 1.002 | 5.346 | -3.04 | 0.289 | 63.7 | 156.6 | -2.0 | 0.243 |
| 4-1800 | 4-3160 | 0.318 | 325.9 | -5.1 | 1.99 | 1.293 | 94.0 | 0.686 | 3.188 | 350.1 | 554.5 | 1.001 | 5.375 | -2.83 | 0.290 | 62.9 | 157.5 | -1.8 | 0.245 |
| 4-1800 | 4-3180 | 0.321 | 328.2 | -5.2 | 1.79 | 1.294 | 94.6 | 0.688 | 3.202 | 348.8 | 554.9 | 0.999 | 5.405 | -2.65 | 0.292 | 62.1 | 158.4 | -1.6 | 0.248 |
| 4-1800 | 4-3200 | 0.325 | 330.5 | -5.2 | 1.61 | 1.295 | 95.1 | 0.690 | 3.216 | 347.4 | 555.3 | 0.997 | 5.436 | -2.49 | 0.294 | 61.4 | 159.3 | -1.5 | 0.251 |
| 4-1800 | 4-3220 | 0.330 | 332.7 | -5.2 | 1.46 | 1.295 | 95.7 | 0.692 | 3.231 | 346.0 | 555.7 | 0.995 | 5.467 | -2.35 | 0.295 | 60.7 | 160.3 | -1.4 | 0.253 |
| 4-1800 | 4-3240 | 0.335 | 334.8 | -5.0 | 1.32 | 1.296 | 96.3 | 0.694 | 3.246 | 344.7 | 556.1 | 0.992 | 5.499 | -2.24 | 0.297 | 59.9 | 161.3 | -1.3 | 0.256 |
| 4-1800 | 4-3260 | 0.340 | 336.9 | -4.8 | 1.20 | 1.296 | 96.9 | 0.697 | 3.260 | 343.3 | 556.5 | 0.989 | 5.531 | -2.13 | 0.298 | 59.2 | 162.3 | -1.2 | 0.259 |
| 4-1800 | 4-3280 | 0.346 | 338.9 | -4.5 | 1.08 | 1.297 | 97.4 | 0.699 | 3.275 | 341.9 | 556.8 | 0.986 | 5.564 | -2.03 | 0.300 | 58.6 | 163.4 | -1.1 | 0.261 |
| 4-1800 | 4-3300 | 0.352 | 340.9 | -4.2 | 0.98 | 1.297 | 98.0 | 0.701 | 3.290 | 340.4 | 557.2 | 0.983 | 5.597 | -1.95 | 0.301 | 57.9 | 164.5 | -1.1 | 0.264 |
| 4-1800 | 4-3320 | 0.358 | 342.9 | -3.9 | 0.88 | 1.298 | 98.6 | 0.704 | 3.305 | 339.0 | 557.5 | 0.979 | 5.631 | -1.87 | 0.303 | 57.2 | 165.6 | -1.0 | 0.267 |
| 4-1800 | 4-3340 | 0.365 | 344.8 | -3.5 | 0.79 | 1.298 | 99.3 | 0.706 | 3.320 | 337.6 | 557.8 | 0.975 | 5.665 | -1.81 | 0.304 | 56.6 | 166.7 | -1.0 | 0.270 |
| 4-1800 | 4-3360 | 0.372 | 346.6 | -3.1 | 0.71 | 1.299 | 99.9 | 0.709 | 3.335 | 336.2 | 558.1 | 0.971 | 5.699 | -1.74 | 0.306 | 56.0 | 167.9 | -1.0 | 0.272 |
| 4-1800 | 4-3380 | 0.380 | 348.4 | -2.7 | 0.63 | 1.299 | 100.5 | 0.712 | 3.350 | 334.7 | 558.4 | 0.967 | 5.734 | -1.69 | 0.307 | 55.4 | 169.1 | -1.0 | 0.275 |
| 4-1800 | 4-3400 | 0.388 | 350.1 | -2.2 | 0.56 | 1.300 | 101.1 | 0.714 | 3.366 | 333.2 | 558.7 | 0.962 | 5.770 | -1.64 | 0.308 | 54.7 | 170.3 | -1.0 | 0.278 |
| 4-1810 | 4-2070 | 0.626 | 300.7 | -22.7 | -0.88 | 1.599 | 82.4 | 1.571 | -1.742 | 12.4 | 108.3 | --- | --- | 1.06 | 0.985 | 161.2 | 177.9 | 0.5 | 0.959 |
| 4-1810 | 4-2090 | 0.580 | 297.4 | -23.5 | -0.92 | 1.547 | 81.6 | 1.407 | -2.435 | 14.3 | 112.0 | --- | --- | 1.06 | 0.899 | 160.0 | 178.1 | 0.5 | 0.873 |
| 4-1810 | 4-2110 | 0.543 | 294.2 | -24.2 | -0.95 | 1.504 | 80.9 | 1.277 | -3.562 | 16.3 | 115.7 | --- | --- | 1.07 | 0.824 | 158.8 | 178.3 | 0.5 | 0.799 |
| 4-1810 | 4-2130 | 0.515 | 291.1 | -24.8 | -0.98 | 1.469 | 80.2 | 1.173 | -5.672 | 18.2 | 119.4 | --- | --- | 1.07 | 0.758 | 157.4 | 178.4 | 0.5 | 0.734 |
| 4-1810 | 4-2150 | 0.492 | 288.1 | -25.4 | -1.02 | 1.440 | 79.6 | 1.089 | 10.943 | 20.0 | 123.0 | --- | --- | 1.08 | 0.700 | 156.0 | 178.5 | 0.5 | 0.676 |
| 4-1810 | 4-2170 | 0.474 | 285.3 | -25.8 | -1.05 | 1.415 | 79.0 | 1.021 | 46.003 | 21.8 | 126.5 | --- | --- | 1.09 | 0.649 | 154.4 | 178.6 | 0.6 | 0.625 |
| 4-1810 | 4-2190 | 0.460 | 282.7 | -26.2 | -1.09 | 1.395 | 78.5 | 0.965 | 27.957 | 23.4 | 129.9 | --- | --- | 1.10 | 0.603 | 152.8 | 178.6 | 0.6 | 0.579 |
| 4-1810 | 4-2210 | 0.449 | 280.3 | -26.5 | -1.12 | 1.378 | 78.1 | 0.919 | 11.952 | 24.9 | 133.3 | --- | --- | 1.11 | 0.562 | 151.1 | 178.5 | 0.6 | 0.538 |
| 4-1810 | 4-2230 | 0.440 | 278.3 | -26.7 | -1.16 | 1.363 | 77.7 | 0.881 | 8.082 | 26.3 | 136.4 | --- | --- | 1.12 | 0.526 | 149.2 | 178.3 | 0.7 | 0.501 |
| 4-1810 | 4-2250 | 0.432 | 276.4 | -27.0 | -1.20 | 1.351 | 77.4 | 0.849 | 6.353 | 27.5 | 139.5 | --- | --- | 1.13 | 0.493 | 147.3 | 178.1 | 0.7 | 0.468 |
| 4-1810 | 4-2270 | 0.426 | 274.8 | -27.2 | -1.24 | 1.340 | 77.1 | 0.823 | 5.381 | 28.6 | 142.4 | --- | --- | 1.15 | 0.464 | 145.3 | 177.7 | 0.8 | 0.437 |
| 4-1810 | 4-2290 | 0.421 | 273.5 | -27.3 | -1.28 | 1.331 | 76.9 | 0.800 | 4.764 | 29.6 | 145.1 | --- | --- | 1.16 | 0.437 | 143.1 | 177.3 | 0.9 | 0.410 |
| 4-1810 | 4-2310 | 0.416 | 272.4 | -27.5 | -1.32 | 1.323 | 76.7 | 0.782 | 4.341 | 30.4 | 147.7 | --- | --- | 1.18 | 0.414 | 140.9 | 176.8 | 1.0 | 0.385 |
| 4-1810 | 4-2330 | 0.412 | 271.5 | -27.7 | -1.36 | 1.317 | 76.6 | 0.765 | 4.036 | 31.0 | 150.2 | --- | --- | 1.20 | 0.392 | 138.6 | 176.2 | 1.1 | 0.363 |
| 4-1810 | 4-2350 | 0.408 | 270.7 | -27.8 | -1.41 | 1.311 | 76.5 | 0.752 | 3.808 | 31.6 | 152.5 | --- | --- | 1.23 | 0.373 | 136.2 | 175.5 | 1.2 | 0.343 |
| 4-1810 | 4-2370 | 0.405 | 270.2 | -28.0 | -1.45 | 1.306 | 76.5 | 0.740 | 3.633 | 32.0 | 154.8 | --- | --- | 1.25 | 0.356 | 133.7 | 174.7 | 1.3 | 0.324 |
| 4-1810 | 4-2390 | 0.402 | 269.8 | -28.2 | -1.50 | 1.302 | 76.5 | 0.730 | 3.496 | 32.2 | 156.9 | --- | --- | 1.28 | 0.341 | 131.1 | 173.9 | 1.4 | 0.308 |
| 4-1810 | 4-2410 | 0.399 | 269.5 | -28.4 | -1.55 | 1.299 | 76.5 | 0.722 | 3.388 | 32.4 | 158.9 | --- | --- | 1.31 | 0.328 | 128.5 | 172.9 | 1.5 | 0.293 |
| 4-1810 | 4-2430 | 0.395 | 269.4 | -28.6 | -1.60 | 1.296 | 76.5 | 0.714 | 3.300 | 32.5 | 160.7 | --- | --- | 1.34 | 0.316 | 125.9 | 171.8 | 1.7 | 0.279 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1810 | 4-2450 | 0.392 | 269.5 | -28.8 | -1.66 | 1.293 | 76.6 | 0.708 | 3.229 | 32.4 | 162.5 | --- | --- | 1.37 | 0.306 | 123.2 | 170.7 | 1.8 | 0.267 |
| 4-1810 | 4-2470 | 0.389 | 269.6 | -29.0 | -1.72 | 1.291 | 76.7 | 0.702 | 3.172 | 32.3 | 164.2 | --- | --- | 1.41 | 0.297 | 120.5 | 169.5 | 2.0 | 0.257 |
| 4-1810 | 4-2490 | 0.386 | 269.9 | -29.2 | -1.78 | 1.289 | 76.9 | 0.697 | 3.125 | 32.1 | 165.8 | --- | --- | 1.45 | 0.289 | 117.8 | 168.3 | 2.1 | 0.247 |
| 4-1810 | 4-2510 | 0.383 | 270.3 | -29.5 | -1.85 | 1.288 | 77.0 | 0.693 | 3.086 | 31.8 | 167.4 | --- | --- | 1.50 | 0.282 | 115.1 | 167.0 | 2.3 | 0.239 |
| 4-1810 | 4-2530 | 0.380 | 270.8 | -29.8 | -1.92 | 1.286 | 77.2 | 0.689 | 3.055 | 31.5 | 168.8 | --- | --- | 1.55 | 0.276 | 112.4 | 165.6 | 2.5 | 0.232 |
| 4-1810 | 4-2550 | 0.376 | 271.3 | -30.1 | -1.99 | 1.285 | 77.4 | 0.686 | 3.030 | 31.0 | 170.2 | --- | --- | 1.61 | 0.272 | 109.8 | 164.3 | 2.7 | 0.225 |
| 4-1810 | 4-2570 | 0.373 | 272.0 | -30.4 | -2.08 | 1.284 | 77.7 | 0.684 | 3.010 | 30.5 | 171.6 | --- | --- | 1.67 | 0.268 | 107.2 | 162.9 | 2.8 | 0.220 |
| 4-1810 | 4-2590 | 0.370 | 272.8 | -30.8 | -2.16 | 1.284 | 77.9 | 0.681 | 2.994 | 30.0 | 172.8 | --- | --- | 1.74 | 0.264 | 104.7 | 161.6 | 3.0 | 0.216 |
| 4-1810 | 4-2610 | 0.366 | 273.7 | -31.2 | -2.26 | 1.283 | 78.2 | 0.679 | 2.982 | 29.3 | 174.1 | --- | --- | 1.82 | 0.262 | 102.2 | 160.3 | 3.2 | 0.212 |
| 4-1810 | 4-2630 | 0.363 | 274.7 | -31.6 | -2.37 | 1.283 | 78.5 | 0.677 | 2.973 | 28.7 | 175.2 | --- | --- | 1.91 | 0.260 | 99.8 | 159.1 | 3.4 | 0.209 |
| 4-1810 | 4-2650 | 0.360 | 275.7 | -32.1 | -2.48 | 1.282 | 78.8 | 0.676 | 2.967 | 28.0 | 176.3 | --- | --- | 2.00 | 0.259 | 97.5 | 157.9 | 3.6 | 0.207 |
| 4-1810 | 4-2670 | 0.356 | 276.9 | -32.6 | -2.61 | 1.282 | 79.1 | 0.675 | 2.963 | 27.2 | 177.4 | --- | --- | 2.12 | 0.258 | 95.3 | 156.8 | 3.9 | 0.205 |
| 4-1810 | 4-2690 | 0.353 | 278.1 | -33.1 | -2.76 | 1.282 | 79.4 | 0.673 | 2.961 | 26.4 | 178.5 | --- | --- | 2.24 | 0.257 | 93.2 | 155.8 | 4.1 | 0.204 |
| 4-1810 | 4-2710 | 0.350 | 279.5 | -33.8 | -2.92 | 1.282 | 79.8 | 0.673 | 2.961 | 25.6 | 179.4 | --- | --- | 2.39 | 0.257 | 91.1 | 154.9 | 4.3 | 0.203 |
| 4-1810 | 4-2730 | 0.347 | 280.9 | -34.5 | -3.10 | 1.282 | 80.1 | 0.672 | 2.963 | 24.7 | 180.4 | --- | 4.954 | 2.55 | 0.257 | 89.2 | 154.1 | 4.6 | 0.203 |
| 4-1810 | 4-2750 | 0.344 | 282.4 | -35.3 | -3.32 | 1.282 | 80.5 | 0.671 | 2.966 | 23.8 | 181.3 | --- | 4.957 | 2.75 | 0.258 | 87.3 | 153.4 | 4.9 | 0.203 |
| 4-1810 | 4-2770 | 0.342 | 284.1 | -36.2 | -3.57 | 1.283 | 80.9 | 0.671 | 2.970 | 22.8 | 182.2 | --- | 4.963 | 2.98 | 0.259 | 85.6 | 152.7 | 5.2 | 0.204 |
| 4-1810 | 4-2790 | 0.340 | 285.9 | -37.3 | -3.86 | 1.283 | 81.3 | 0.671 | 2.976 | 21.8 | 183.0 | --- | 4.972 | 3.26 | 0.260 | 83.9 | 152.2 | 5.5 | 0.205 |
| 4-1810 | 4-2810 | 0.338 | 287.8 | -38.6 | -4.22 | 1.283 | 81.7 | 0.670 | 2.983 | 20.8 | 183.9 | --- | 4.982 | 3.60 | 0.261 | 82.2 | 151.9 | 6.0 | 0.206 |
| 4-1810 | 4-2830 | 0.337 | 289.9 | -40.2 | -4.66 | 1.283 | 82.1 | 0.670 | 2.990 | 19.8 | 184.6 | --- | 4.995 | 4.02 | 0.262 | 80.7 | 151.6 | 6.5 | 0.208 |
| 4-1810 | 4-2850 | 0.337 | 292.2 | -42.2 | -5.21 | 1.284 | 82.5 | 0.671 | 2.998 | 18.8 | 185.4 | --- | 5.009 | 4.56 | 0.263 | 79.2 | 151.4 | 7.1 | 0.210 |
| 4-1810 | 4-2870 | 0.339 | 294.8 | -44.7 | -5.93 | 1.284 | 82.9 | 0.671 | 3.007 | 17.7 | 186.1 | --- | 5.025 | 5.26 | 0.265 | 77.8 | 151.4 | 7.9 | 0.212 |
| 4-1810 | 4-2890 | 0.344 | 297.8 | -48.1 | -6.92 | 1.285 | 83.4 | 0.671 | 3.017 | 16.6 | 186.9 | --- | 5.042 | 6.24 | 0.267 | 76.5 | 151.4 | 9.0 | 0.215 |
| 4-1810 | 4-2910 | 0.353 | 301.6 | -52.8 | -8.36 | 1.285 | 83.8 | 0.671 | 3.027 | 15.5 | 187.5 | --- | 5.060 | 7.66 | 0.268 | 75.2 | 151.7 | 10.6 | 0.218 |
| 4-1810 | 4-2930 | 0.374 | 307.0 | -59.6 | -10.63 | 1.286 | 84.3 | 0.672 | 3.038 | 14.3 | 188.2 | --- | 5.080 | 9.91 | 0.270 | 74.0 | 152.1 | 13.0 | 0.224 |
| 4-1810 | 4-2950 | 0.423 | 318.0 | -70.1 | -14.76 | 1.286 | 84.7 | 0.673 | 3.050 | 13.2 | 188.8 | --- | 5.100 | 14.02 | 0.272 | 72.9 | 153.0 | 17.1 | 0.233 |
| 4-1810 | 4-2970 | 0.566 | 29.8 | -82.7 | -24.40 | 1.287 | 85.1 | 0.673 | 3.061 | 12.1 | 189.5 | --- | 5.122 | 23.65 | 0.273 | 71.7 | 155.2 | 24.8 | 0.261 |
| 4-1810 | 4-2990 | 1.191 | 118.0 | -53.4 | -61.39 | 1.287 | 85.5 | 0.674 | 3.073 | 11.3 | 190.1 | --- | 5.146 | 60.62 | 0.275 | 70.7 | 164.1 | 34.1 | 0.413 |
| 4-1810 | 4-3010 | 0.830 | 261.9 | 63.3 | 40.10 | 1.288 | 86.4 | 0.675 | 3.086 | 9.0 | 190.6 | --- | 5.168 | -40.88 | 0.277 | 69.7 | 157.1 | -30.0 | 0.329 |
| 4-1810 | 4-3030 | 0.470 | 290.0 | 38.5 | 18.41 | 1.288 | 86.8 | 0.676 | 3.099 | 8.0 | 191.2 | --- | 5.192 | -19.21 | 0.279 | 68.7 | 153.8 | -18.3 | 0.254 |
| 4-1810 | 4-3050 | 0.376 | 298.1 | 23.1 | 11.50 | 1.289 | 87.2 | 0.677 | 3.112 | 6.8 | 191.7 | --- | 5.218 | -12.32 | 0.281 | 67.8 | 153.7 | -12.0 | 0.241 |
| 4-1810 | 4-3070 | 0.341 | 303.1 | 13.6 | 8.21 | 1.289 | 87.7 | 0.678 | 3.126 | 5.6 | 192.3 | --- | 5.244 | -9.05 | 0.282 | 66.9 | 154.2 | -8.6 | 0.238 |
| 4-1810 | 4-3090 | 0.324 | 306.9 | 7.6 | 6.30 | 1.290 | 88.3 | 0.679 | 3.139 | 4.3 | 192.8 | --- | 5.270 | -7.15 | 0.284 | 66.0 | 154.8 | -6.5 | 0.238 |
| 4-1810 | 4-3110 | 0.316 | 310.3 | 3.5 | 5.05 | 1.290 | 88.8 | 0.680 | 3.153 | 3.0 | 193.3 | --- | 5.298 | -5.92 | 0.286 | 65.2 | 155.5 | -5.2 | 0.239 |
| 4-1810 | 4-3130 | 0.311 | 313.4 | 0.8 | 4.16 | 1.291 | 89.3 | 0.681 | 3.167 | 1.7 | 193.7 | --- | 5.325 | -5.05 | 0.288 | 64.4 | 156.3 | -4.2 | 0.241 |
| 4-1810 | 4-3150 | 0.309 | 316.3 | -1.2 | 3.51 | 1.291 | 89.8 | 0.683 | 3.182 | 0.4 | 194.2 | --- | 5.354 | -4.41 | 0.290 | 63.6 | 157.2 | -3.5 | 0.243 |
| 4-1810 | 4-3170 | 0.308 | 319.1 | -2.5 | 3.00 | 1.292 | 90.4 | 0.684 | 3.196 | 359.1 | 554.7 | 1.009 | 5.383 | -3.92 | 0.291 | 62.9 | 158.0 | -3.0 | 0.245 |
| 4-1810 | 4-3190 | 0.308 | 321.8 | -3.5 | 2.59 | 1.292 | 90.9 | 0.686 | 3.211 | 357.7 | 555.1 | 1.009 | 5.412 | -3.53 | 0.293 | 62.2 | 158.9 | -2.6 | 0.248 |
| 4-1810 | 4-3210 | 0.309 | 324.4 | -4.1 | 2.26 | 1.293 | 91.5 | 0.687 | 3.225 | 356.4 | 555.5 | 1.008 | 5.443 | -3.21 | 0.295 | 61.5 | 159.9 | -2.3 | 0.250 |
| 4-1810 | 4-3230 | 0.310 | 327.0 | -4.5 | 1.98 | 1.294 | 92.0 | 0.689 | 3.240 | 355.0 | 556.9 | 1.008 | 5.473 | -2.95 | 0.296 | 60.8 | 160.9 | -2.0 | 0.252 |
| 4-1810 | 4-3250 | 0.312 | 329.5 | -4.7 | 1.75 | 1.294 | 92.6 | 0.691 | 3.255 | 353.6 | 556.3 | 1.007 | 5.504 | -2.73 | 0.298 | 60.1 | 161.9 | -1.8 | 0.255 |
| 4-1810 | 4-3270 | 0.315 | 332.0 | -4.7 | 1.54 | 1.295 | 93.2 | 0.693 | 3.270 | 352.3 | 556.7 | 1.005 | 5.535 | -2.54 | 0.299 | 59.5 | 162.9 | -1.7 | 0.257 |
| 4-1810 | 4-3290 | 0.318 | 334.4 | -4.7 | 1.37 | 1.295 | 93.7 | 0.694 | 3.286 | 350.9 | 557.0 | 1.004 | 5.567 | -2.38 | 0.301 | 58.8 | 164.0 | -1.5 | 0.260 |
| 4-1810 | 4-3310 | 0.322 | 336.7 | -4.5 | 1.21 | 1.296 | 94.3 | 0.696 | 3.301 | 349.5 | 557.4 | 1.002 | 5.600 | -2.25 | 0.303 | 58.2 | 165.1 | -1.4 | 0.262 |
| 4-1810 | 4-3330 | 0.326 | 339.0 | -4.3 | 1.07 | 1.296 | 94.9 | 0.698 | 3.316 | 348.0 | 557.7 | 1.000 | 5.632 | -2.12 | 0.304 | 57.6 | 166.2 | -1.3 | 0.265 |
| 4-1810 | 4-3350 | 0.331 | 341.2 | -3.9 | 0.95 | 1.297 | 95.5 | 0.700 | 3.332 | 346.6 | 558.0 | 0.998 | 5.665 | -2.02 | 0.305 | 57.0 | 167.4 | -1.3 | 0.267 |
| 4-1810 | 4-3370 | 0.336 | 343.4 | -3.6 | 0.84 | 1.297 | 96.1 | 0.703 | 3.347 | 345.2 | 558.3 | 0.995 | 5.699 | -1.92 | 0.307 | 56.5 | 168.5 | -1.2 | 0.270 |
| 4-1810 | 4-3390 | 0.341 | 345.5 | -3.2 | 0.73 | 1.298 | 96.7 | 0.705 | 3.363 | 343.8 | 558.6 | 0.993 | 5.733 | -1.84 | 0.308 | 55.9 | 169.7 | -1.2 | 0.272 |
| 4-1810 | 4-3410 | 0.347 | 347.6 | -2.7 | 0.64 | 1.298 | 97.3 | 0.707 | 3.378 | 342.3 | 558.9 | 0.989 | 5.767 | -1.76 | 0.310 | 55.3 | 170.9 | -1.2 | 0.274 |
| 4-1820 | 4-2100 | 0.617 | 290.5 | -24.3 | -0.92 | 1.528 | 75.3 | 1.342 | -2.794 | 25.6 | 114.5 | --- | --- | 0.91 | 0.869 | 160.0 | 178.0 | 0.4 | 0.847 |
| 4-1820 | 4-2120 | 0.587 | 287.4 | -24.8 | -0.95 | 1.488 | 74.7 | 1.224 | -4.237 | 27.7 | 118.3 | --- | --- | 0.91 | 0.796 | 158.7 | 178.1 | 0.4 | 0.775 |
| 4-1820 | 4-2140 | 0.562 | 284.5 | -25.2 | -0.98 | 1.454 | 74.2 | 1.130 | -7.254 | 29.7 | 122.1 | --- | --- | 0.91 | 0.732 | 157.3 | 178.2 | 0.5 | 0.712 |
| 4-1820 | 4-2160 | 0.544 | 281.8 | -25.5 | -1.01 | 1.427 | 73.8 | 1.054 | 17.216 | 31.6 | 125.8 | --- | --- | 0.91 | 0.676 | 155.9 | 178.2 | 0.5 | 0.656 |
| 4-1820 | 4-2180 | 0.529 | 279.4 | -25.8 | -1.04 | 1.404 | 73.3 | 0.993 | 38.836 | 33.4 | 129.4 | --- | --- | 0.91 | 0.626 | 154.3 | 178.1 | 0.5 | 0.607 |
| 4-1820 | 4-2200 | 0.517 | 277.3 | -26.0 | -1.06 | 1.384 | 73.0 | 0.944 | 16.337 | 35.1 | 132.9 | --- | --- | 0.91 | 0.582 | 152.6 | 178.0 | 0.5 | 0.562 |
| 4-1820 | 4-2220 | 0.507 | 275.4 | -26.2 | -1.09 | 1.368 | 72.7 | 0.903 | 9.425 | 36.6 | 136.2 | --- | --- | 0.92 | 0.542 | 150.8 | 177.8 | 0.6 | 0.523 |
| 4-1820 | 4-2240 | 0.499 | 273.8 | -26.3 | -1.12 | 1.354 | 72.4 | 0.869 | 6.963 | 37.9 | 139.3 | --- | --- | 0.92 | 0.507 | 148.9 | 177.6 | 0.6 | 0.487 |
| 4-1820 | 4-2260 | 0.493 | 272.4 | -26.4 | -1.15 | 1.343 | 72.2 | 0.841 | 5.711 | 39.1 | 142.3 | --- | --- | 0.93 | 0.475 | 146.9 | 177.2 | 0.7 | 0.455 |
| 4-1820 | 4-2280 | 0.487 | 271.2 | -26.5 | -1.18 | 1.333 | 72.1 | 0.818 | 4.959 | 40.1 | 145.1 | --- | --- | 0.94 | 0.447 | 144.8 | 176.8 | 0.7 | 0.426 |
| 4-1820 | 4-2300 | 0.482 | 270.3 | -26.6 | -1.21 | 1.324 | 71.9 | 0.798 | 4.462 | 40.9 | 147.7 | --- | --- | 0.95 | 0.421 | 142.6 | 176.3 | 0.8 | 0.400 |
| 4-1820 | 4-2320 | 0.478 | 269.5 | -26.7 | -1.24 | 1.317 | 71.9 | 0.781 | 4.113 | 41.6 | 150.2 | --- | --- | 0.96 | 0.398 | 140.3 | 175.7 | 0.9 | 0.376 |
| 4-1820 | 4-2340 | 0.473 | 268.9 | -26.8 | -1.28 | 1.311 | 71.8 | 0.767 | 3.857 | 42.2 | 152.6 | --- | --- | 0.97 | 0.378 | 137.9 | 175.0 | 1.0 | 0.355 |
| 4-1820 | 4-2360 | 0.469 | 268.4 | -26.9 | -1.31 | 1.306 | 71.8 | 0.755 | 3.663 | 42.6 | 154.8 | --- | --- | 0.98 | 0.359 | 135.4 | 174.2 | 1.0 | 0.336 |
| 4-1820 | 4-2380 | 0.466 | 268.1 | -27.0 | -1.34 | 1.301 | 71.8 | 0.745 | 3.513 | 42.9 | 156.9 | --- | --- | 0.99 | 0.343 | 132.9 | 173.3 | 1.1 | 0.318 |
| 4-1820 | 4-2400 | 0.462 | 267.9 | -27.1 | -1.38 | 1.297 | 71.9 | 0.736 | 3.395 | 43.0 | 158.9 | --- | --- | 1.01 | 0.329 | 130.2 | 172.3 | 1.2 | 0.303 |
| 4-1820 | 4-2420 | 0.458 | 267.8 | -27.2 | -1.42 | 1.294 | 72.0 | 0.728 | 3.301 | 43.1 | 160.8 | --- | --- | 1.02 | 0.316 | 127.5 | 171.3 | 1.4 | 0.289 |
| 4-1820 | 4-2440 | 0.454 | 267.8 | -27.4 | -1.45 | 1.291 | 72.1 | 0.722 | 3.225 | 43.1 | 162.6 | --- | --- | 1.04 | 0.305 | 124.8 | 170.2 | 1.5 | 0.276 |
| 4-1820 | 4-2460 | 0.450 | 268.0 | -27.5 | -1.49 | 1.289 | 72.3 | 0.716 | 3.164 | 42.9 | 164.3 | --- | --- | 1.06 | 0.295 | 122.0 | 169.0 | 1.6 | 0.265 |
| 4-1820 | 4-2480 | 0.446 | 268.2 | -27.6 | -1.53 | 1.287 | 72.4 | 0.711 | 3.114 | 42.7 | 165.9 | --- | --- | 1.08 | 0.287 | 119.2 | 167.7 | 1.7 | 0.255 |
| 4-1820 | 4-2500 | 0.442 | 268.5 | -27.8 | -1.57 | 1.285 | 72.6 | 0.706 | 3.073 | 42.4 | 167.4 | --- | --- | 1.11 | 0.280 | 116.4 | 166.5 | 1.8 | 0.246 |
| 4-1820 | 4-2520 | 0.438 | 268.9 | -28.0 | -1.62 | 1.284 | 72.8 | 0.703 | 3.041 | 42.0 | 168.8 | --- | --- | 1.13 | 0.273 | 113.7 | 165.1 | 2.0 | 0.238 |
| 4-1820 | 4-2540 | 0.434 | 269.4 | -28.2 | -1.66 | 1.283 | 73.1 | 0.699 | 3.014 | 41.5 | 170.2 | --- | --- | 1.16 | 0.268 | 111.0 | 163.8 | 2.1 | 0.232 |
| 4-1820 | 4-2560 | 0.430 | 270.0 | -28.3 | -1.71 | 1.282 | 73.3 | 0.696 | 2.993 | 41.0 | 171.5 | --- | --- | 1.19 | 0.264 | 108.3 | 162.5 | 2.2 | 0.226 |
| 4-1820 | 4-2580 | 0.426 | 270.6 | -28.5 | -1.77 | 1.281 | 73.6 | 0.693 | 2.977 | 40.4 | 172.7 | --- | --- | 1.23 | 0.261 | 105.7 | 161.2 | 2.4 | 0.221 |
| 4-1820 | 4-2600 | 0.421 | 271.4 | -28.8 | -1.82 | 1.281 | 73.9 | 0.691 | 2.964 | 39.8 | 173.9 | --- | --- | 1.26 | 0.258 | 103.1 | 160.0 | 2.5 | 0.217 |
| 4-1820 | 4-2620 | 0.417 | 272.1 | -29.0 | -1.88 | 1.280 | 74.2 | 0.689 | 2.955 | 39.1 | 175.1 | --- | --- | 1.30 | 0.256 | 100.6 | 158.7 | 2.6 | 0.214 |
| 4-1820 | 4-2640 | 0.413 | 273.0 | -29.2 | -1.94 | 1.280 | 74.5 | 0.687 | 2.949 | 38.4 | 176.2 | --- | --- | 1.35 | 0.255 | 98.3 | 157.6 | 2.8 | 0.212 |
| 4-1820 | 4-2660 | 0.408 | 273.9 | -29.5 | -2.01 | 1.280 | 74.8 | 0.686 | 2.945 | 37.6 | 177.2 | --- | --- | 1.40 | 0.254 | 96.0 | 156.5 | 2.9 | 0.210 |
| 4-1820 | 4-2680 | 0.403 | 274.9 | -29.8 | -2.08 | 1.280 | 75.2 | 0.684 | 2.943 | 36.8 | 178.3 | --- | --- | 1.46 | 0.253 | 93.8 | 155.5 | 3.0 | 0.208 |
| 4-1820 | 4-2700 | 0.399 | 276.0 | -30.1 | -2.16 | 1.280 | 75.5 | 0.683 | 2.943 | 35.9 | 179.2 | --- | --- | 1.52 | 0.253 | 91.7 | 154.6 | 3.2 | 0.207 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1820 | 4-2720 | 0.394 | 277.1 | -30.4 | -2.24 | 1.280 | 75.9 | 0.682 | 2.945 | 35.0 | 180.2 | --- | 4.953 | 1.59 | 0.253 | 89.7 | 153.8 | 3.3 | 0.207 |
| 4-1820 | 4-2740 | 0.390 | 278.3 | -30.7 | -2.33 | 1.280 | 76.3 | 0.681 | 2.948 | 34.1 | 181.1 | --- | 4.956 | 1.66 | 0.254 | 87.7 | 153.1 | 3.4 | 0.207 |
| 4-1820 | 4-2760 | 0.385 | 279.6 | -31.1 | -2.44 | 1.280 | 76.7 | 0.680 | 2.953 | 33.1 | 181.9 | --- | 4.961 | 1.75 | 0.255 | 85.9 | 152.5 | 3.6 | 0.207 |
| 4-1820 | 4-2780 | 0.381 | 280.9 | -31.5 | -2.55 | 1.280 | 77.1 | 0.679 | 2.959 | 32.1 | 182.8 | --- | 4.969 | 1.85 | 0.256 | 84.2 | 152.0 | 3.7 | 0.208 |
| 4-1820 | 4-2800 | 0.376 | 282.3 | -31.9 | -2.68 | 1.281 | 77.5 | 0.679 | 2.966 | 31.1 | 183.6 | --- | 4.979 | 1.96 | 0.257 | 82.5 | 151.6 | 3.9 | 0.208 |
| 4-1820 | 4-2820 | 0.372 | 283.8 | -32.4 | -2.82 | 1.281 | 77.9 | 0.678 | 2.974 | 30.1 | 184.3 | --- | 4.991 | 2.09 | 0.259 | 81.0 | 151.3 | 4.0 | 0.210 |
| 4-1820 | 4-2840 | 0.368 | 285.4 | -33.0 | -2.99 | 1.281 | 78.3 | 0.678 | 2.982 | 29.0 | 185.1 | --- | 5.004 | 2.24 | 0.260 | 79.5 | 151.1 | 4.2 | 0.211 |
| 4-1820 | 4-2860 | 0.364 | 287.1 | -33.6 | -3.18 | 1.282 | 78.8 | 0.678 | 2.992 | 27.9 | 185.8 | --- | 5.019 | 2.41 | 0.262 | 78.1 | 151.0 | 4.4 | 0.212 |
| 4-1820 | 4-2880 | 0.360 | 288.9 | -34.4 | -3.40 | 1.282 | 79.2 | 0.678 | 3.002 | 26.8 | 186.5 | --- | 5.036 | 2.62 | 0.264 | 76.7 | 151.0 | 4.6 | 0.214 |
| 4-1820 | 4-2900 | 0.357 | 290.8 | -35.3 | -3.66 | 1.283 | 79.7 | 0.678 | 3.012 | 25.6 | 187.2 | --- | 5.053 | 2.87 | 0.265 | 75.4 | 151.0 | 4.9 | 0.216 |
| 4-1820 | 4-2920 | 0.354 | 292.8 | -36.3 | -3.98 | 1.283 | 80.1 | 0.678 | 3.024 | 24.5 | 187.9 | --- | 5.072 | 3.17 | 0.267 | 74.2 | 151.2 | 5.2 | 0.218 |
| 4-1820 | 4-2940 | 0.351 | 295.0 | -37.6 | -4.37 | 1.284 | 80.6 | 0.678 | 3.035 | 23.3 | 188.5 | --- | 5.092 | 3.55 | 0.269 | 73.1 | 151.5 | 5.6 | 0.220 |
| 4-1820 | 4-2960 | 0.350 | 297.4 | -39.3 | -4.87 | 1.284 | 81.1 | 0.678 | 3.047 | 22.1 | 189.1 | --- | 5.114 | 4.03 | 0.271 | 72.0 | 151.8 | 6.1 | 0.222 |
| 4-1820 | 4-2980 | 0.350 | 300.0 | -41.5 | -5.53 | 1.285 | 81.6 | 0.678 | 3.060 | 20.9 | 189.7 | --- | 5.136 | 4.68 | 0.273 | 70.9 | 152.2 | 6.8 | 0.225 |
| 4-1820 | 4-3000 | 0.352 | 303.0 | -44.5 | -6.43 | 1.285 | 82.1 | 0.679 | 3.073 | 19.7 | 190.3 | --- | 5.158 | 5.56 | 0.275 | 69.9 | 152.8 | 7.7 | 0.228 |
| 4-1820 | 4-3020 | 0.359 | 306.7 | -48.7 | -7.75 | 1.286 | 82.5 | 0.679 | 3.086 | 18.5 | 190.9 | --- | 5.182 | 6.87 | 0.277 | 68.9 | 153.4 | 9.1 | 0.231 |
| 4-1820 | 4-3040 | 0.376 | 311.8 | -55.1 | -9.88 | 1.286 | 83.0 | 0.680 | 3.100 | 17.2 | 191.4 | --- | 5.207 | 8.99 | 0.279 | 68.0 | 154.3 | 11.2 | 0.236 |
| 4-1820 | 4-3060 | 0.419 | 321.3 | -65.5 | -13.87 | 1.287 | 83.5 | 0.680 | 3.114 | 16.0 | 192.0 | --- | 5.232 | 12.96 | 0.281 | 67.2 | 155.5 | 15.0 | 0.244 |
| 4-1820 | 4-3080 | 0.562 | 13.0 | -81.2 | -23.84 | 1.288 | 84.0 | 0.681 | 3.128 | 14.8 | 192.5 | --- | 5.258 | 22.91 | 0.283 | 66.3 | 158.3 | 23.0 | 0.271 |
| 4-1820 | 4-3100 | 1.324 | 127.6 | -50.4 | -69.68 | 1.288 | 84.3 | 0.682 | 3.142 | 14.0 | 193.0 | --- | 5.285 | 68.74 | 0.284 | 65.5 | 171.1 | 32.6 | 0.454 |
| 4-1820 | 4-3120 | 0.683 | 275.4 | 54.6 | 31.31 | 1.289 | 85.2 | 0.682 | 3.157 | 11.7 | 193.4 | --- | 5.310 | -32.26 | 0.286 | 64.8 | 159.5 | -25.9 | 0.305 |
| 4-1820 | 4-3140 | 0.423 | 296.8 | 30.7 | 14.76 | 1.289 | 85.7 | 0.683 | 3.171 | 10.6 | 193.9 | --- | 5.338 | -15.72 | 0.288 | 64.0 | 157.5 | -14.6 | 0.258 |
| 4-1820 | 4-3160 | 0.358 | 304.4 | 17.0 | 9.30 | 1.290 | 86.2 | 0.684 | 3.186 | 9.3 | 194.4 | --- | 5.366 | -10.28 | 0.290 | 63.3 | 157.9 | -9.5 | 0.251 |
| 4-1820 | 4-3180 | 0.333 | 309.2 | 9.0 | 6.64 | 1.290 | 86.8 | 0.685 | 3.201 | 8.0 | 194.8 | --- | 5.395 | -7.63 | 0.292 | 62.6 | 158.6 | -6.8 | 0.250 |
| 4-1820 | 4-3200 | 0.321 | 313.1 | 4.1 | 5.06 | 1.291 | 87.3 | 0.686 | 3.216 | 6.6 | 195.2 | --- | 5.424 | -6.07 | 0.294 | 61.9 | 159.5 | -5.2 | 0.250 |
| 4-1820 | 4-3220 | 0.314 | 316.4 | 0.9 | 4.02 | 1.292 | 87.8 | 0.688 | 3.232 | 5.3 | 195.6 | --- | 5.454 | -5.05 | 0.295 | 61.3 | 160.5 | -4.2 | 0.252 |
| 4-1820 | 4-3240 | 0.311 | 319.5 | -1.3 | 3.28 | 1.292 | 88.4 | 0.689 | 3.247 | 3.9 | 196.0 | --- | 5.484 | -4.32 | 0.297 | 60.6 | 161.5 | -3.4 | 0.254 |
| 4-1820 | 4-3260 | 0.309 | 322.5 | -2.7 | 2.73 | 1.293 | 89.0 | 0.690 | 3.263 | 2.6 | 196.4 | --- | 5.514 | -3.78 | 0.299 | 60.0 | 162.5 | -2.9 | 0.256 |
| 4-1820 | 4-3280 | 0.308 | 325.3 | -3.6 | 2.30 | 1.293 | 89.5 | 0.691 | 3.278 | 1.2 | 196.8 | --- | 5.545 | -3.37 | 0.300 | 59.4 | 163.5 | -2.5 | 0.258 |
| 4-1820 | 4-3300 | 0.308 | 328.0 | -4.2 | 1.96 | 1.294 | 90.1 | 0.693 | 3.294 | 359.8 | 557.2 | 1.011 | 5.576 | -3.03 | 0.302 | 58.8 | 164.6 | -2.2 | 0.260 |
| 4-1820 | 4-3320 | 0.309 | 330.7 | -4.5 | 1.67 | 1.294 | 90.7 | 0.694 | 3.309 | 358.4 | 557.5 | 1.011 | 5.607 | -2.77 | 0.303 | 58.3 | 165.7 | -2.0 | 0.262 |
| 4-1820 | 4-3340 | 0.310 | 333.3 | -4.6 | 1.44 | 1.295 | 91.2 | 0.696 | 3.325 | 357.0 | 557.8 | 1.011 | 5.639 | -2.54 | 0.305 | 57.7 | 166.8 | -1.8 | 0.264 |
| 4-1820 | 4-3360 | 0.312 | 335.9 | -4.5 | 1.24 | 1.295 | 91.8 | 0.698 | 3.341 | 355.6 | 558.2 | 1.010 | 5.672 | -2.36 | 0.306 | 57.2 | 168.0 | -1.6 | 0.266 |
| 4-1820 | 4-3380 | 0.314 | 338.4 | -4.4 | 1.06 | 1.296 | 92.4 | 0.699 | 3.357 | 354.2 | 558.5 | 1.009 | 5.704 | -2.20 | 0.308 | 56.6 | 169.2 | -1.5 | 0.268 |
| 4-1820 | 4-3400 | 0.317 | 340.8 | -4.1 | 0.91 | 1.297 | 93.0 | 0.701 | 3.373 | 352.7 | 558.8 | 1.008 | 5.737 | -2.06 | 0.309 | 56.1 | 170.4 | -1.4 | 0.271 |
| 4-1820 | 4-3420 | 0.320 | 343.2 | -3.7 | 0.78 | 1.297 | 93.6 | 0.703 | 3.389 | 351.3 | 559.1 | 1.007 | 5.770 | -1.94 | 0.311 | 55.6 | 171.6 | -1.4 | 0.273 |
| 4-1830 | 4-2150 | 0.633 | 280.1 | -25.2 | -1.00 | 1.440 | 68.1 | 1.086 | 10.161 | 42.1 | 125.8 | --- | --- | 0.74 | 0.705 | 157.5 | 177.6 | 0.4 | 0.691 |
| 4-1830 | 4-2170 | 0.616 | 277.9 | -25.4 | -1.02 | 1.413 | 67.8 | 1.021 | 42.025 | 44.0 | 129.5 | --- | --- | 0.74 | 0.650 | 156.0 | 177.5 | 0.4 | 0.637 |
| 4-1830 | 4-2190 | 0.602 | 276.1 | -25.6 | -1.04 | 1.392 | 67.5 | 0.968 | 26.834 | 45.8 | 133.1 | --- | --- | 0.74 | 0.602 | 154.4 | 177.3 | 0.5 | 0.590 |
| 4-1830 | 4-2210 | 0.591 | 274.4 | -25.7 | -1.07 | 1.373 | 67.3 | 0.925 | 11.401 | 47.4 | 136.5 | --- | --- | 0.74 | 0.559 | 152.7 | 177.1 | 0.5 | 0.547 |
| 4-1830 | 4-2230 | 0.582 | 273.0 | -25.8 | -1.09 | 1.358 | 67.1 | 0.890 | 7.717 | 48.8 | 139.7 | --- | --- | 0.74 | 0.520 | 150.8 | 176.8 | 0.5 | 0.509 |
| 4-1830 | 4-2250 | 0.574 | 271.8 | -25.8 | -1.11 | 1.345 | 67.0 | 0.861 | 6.078 | 50.0 | 142.7 | --- | --- | 0.74 | 0.486 | 148.9 | 176.4 | 0.6 | 0.475 |
| 4-1830 | 4-2270 | 0.568 | 270.9 | -25.9 | -1.14 | 1.334 | 66.9 | 0.837 | 5.160 | 51.1 | 145.5 | --- | --- | 0.74 | 0.455 | 146.8 | 176.0 | 0.6 | 0.444 |
| 4-1830 | 4-2290 | 0.561 | 270.1 | -26.0 | -1.16 | 1.325 | 66.8 | 0.817 | 4.578 | 51.9 | 148.2 | --- | --- | 0.74 | 0.427 | 144.6 | 175.4 | 0.7 | 0.416 |
| 4-1830 | 4-2310 | 0.556 | 269.4 | -26.0 | -1.18 | 1.317 | 66.8 | 0.800 | 4.180 | 52.6 | 150.7 | --- | --- | 0.74 | 0.403 | 142.3 | 174.8 | 0.7 | 0.391 |
| 4-1830 | 4-2330 | 0.551 | 268.9 | -26.1 | -1.21 | 1.310 | 66.8 | 0.786 | 3.894 | 53.2 | 153.1 | --- | --- | 0.75 | 0.381 | 139.9 | 174.1 | 0.8 | 0.369 |
| 4-1830 | 4-2350 | 0.546 | 268.6 | -26.1 | -1.23 | 1.305 | 66.9 | 0.774 | 3.681 | 53.6 | 155.3 | --- | --- | 0.75 | 0.361 | 137.4 | 173.3 | 0.9 | 0.348 |
| 4-1830 | 4-2370 | 0.541 | 268.3 | -26.2 | -1.26 | 1.300 | 67.0 | 0.763 | 3.518 | 53.8 | 157.4 | --- | --- | 0.76 | 0.344 | 134.8 | 172.4 | 1.0 | 0.330 |
| 4-1830 | 4-2390 | 0.536 | 268.2 | -26.3 | -1.28 | 1.296 | 67.1 | 0.754 | 3.391 | 54.0 | 159.3 | --- | --- | 0.76 | 0.328 | 132.1 | 171.4 | 1.1 | 0.314 |
| 4-1830 | 4-2410 | 0.532 | 268.2 | -26.4 | -1.31 | 1.292 | 67.2 | 0.746 | 3.291 | 54.0 | 161.2 | --- | --- | 0.77 | 0.314 | 129.3 | 170.4 | 1.1 | 0.299 |
| 4-1830 | 4-2430 | 0.527 | 268.2 | -26.4 | -1.33 | 1.289 | 67.4 | 0.740 | 3.210 | 53.9 | 162.9 | --- | --- | 0.78 | 0.302 | 126.5 | 169.2 | 1.2 | 0.286 |
| 4-1830 | 4-2450 | 0.523 | 268.4 | -26.5 | -1.36 | 1.287 | 67.6 | 0.734 | 3.146 | 53.7 | 164.6 | --- | --- | 0.79 | 0.292 | 123.7 | 168.1 | 1.3 | 0.274 |
| 4-1830 | 4-2470 | 0.518 | 268.6 | -26.6 | -1.39 | 1.285 | 67.8 | 0.728 | 3.093 | 53.5 | 166.1 | --- | --- | 0.80 | 0.283 | 120.8 | 166.8 | 1.4 | 0.264 |
| 4-1830 | 4-2490 | 0.513 | 268.9 | -26.7 | -1.41 | 1.283 | 68.0 | 0.724 | 3.051 | 53.1 | 167.6 | --- | --- | 0.81 | 0.275 | 117.9 | 165.6 | 1.5 | 0.254 |
| 4-1830 | 4-2510 | 0.508 | 269.3 | -26.8 | -1.44 | 1.282 | 68.3 | 0.720 | 3.017 | 52.7 | 169.0 | --- | --- | 0.82 | 0.269 | 115.0 | 164.3 | 1.6 | 0.246 |
| 4-1830 | 4-2530 | 0.503 | 269.7 | -26.9 | -1.47 | 1.280 | 68.5 | 0.716 | 2.990 | 52.2 | 170.3 | --- | --- | 0.83 | 0.263 | 112.2 | 163.0 | 1.7 | 0.239 |
| 4-1830 | 4-2550 | 0.498 | 270.2 | -27.0 | -1.50 | 1.279 | 68.8 | 0.713 | 2.969 | 51.7 | 171.6 | --- | --- | 0.85 | 0.259 | 109.4 | 161.7 | 1.9 | 0.234 |
| 4-1830 | 4-2570 | 0.493 | 270.8 | -27.2 | -1.53 | 1.279 | 69.1 | 0.710 | 2.952 | 51.0 | 172.8 | --- | --- | 0.87 | 0.255 | 106.6 | 160.5 | 2.0 | 0.228 |
| 4-1830 | 4-2590 | 0.488 | 271.4 | -27.3 | -1.57 | 1.278 | 69.4 | 0.707 | 2.939 | 50.4 | 174.0 | --- | --- | 0.88 | 0.252 | 104.0 | 159.2 | 2.1 | 0.224 |
| 4-1830 | 4-2610 | 0.482 | 272.0 | -27.4 | -1.60 | 1.278 | 69.8 | 0.705 | 2.930 | 49.6 | 175.1 | --- | --- | 0.90 | 0.250 | 101.4 | 158.1 | 2.2 | 0.221 |
| 4-1830 | 4-2630 | 0.477 | 272.8 | -27.6 | -1.64 | 1.277 | 70.1 | 0.702 | 2.923 | 48.9 | 176.2 | --- | --- | 0.93 | 0.249 | 98.9 | 156.9 | 2.2 | 0.218 |
| 4-1830 | 4-2650 | 0.471 | 273.5 | -27.7 | -1.68 | 1.277 | 70.5 | 0.700 | 2.920 | 48.1 | 177.2 | --- | --- | 0.95 | 0.248 | 96.5 | 155.9 | 2.3 | 0.216 |
| 4-1830 | 4-2670 | 0.466 | 274.4 | -27.8 | -1.72 | 1.277 | 70.8 | 0.699 | 2.918 | 47.2 | 178.2 | --- | --- | 0.98 | 0.248 | 94.2 | 154.9 | 2.4 | 0.214 |
| 4-1830 | 4-2690 | 0.460 | 275.2 | -28.0 | -1.76 | 1.277 | 71.2 | 0.697 | 2.919 | 46.3 | 179.1 | --- | --- | 1.00 | 0.248 | 92.0 | 154.1 | 2.5 | 0.213 |
| 4-1830 | 4-2710 | 0.455 | 276.2 | -28.1 | -1.80 | 1.277 | 71.6 | 0.695 | 2.921 | 45.4 | 180.0 | --- | 4.952 | 1.03 | 0.248 | 89.9 | 153.3 | 2.6 | 0.212 |
| 4-1830 | 4-2730 | 0.449 | 277.1 | -28.3 | -1.85 | 1.277 | 72.0 | 0.694 | 2.925 | 44.5 | 180.9 | --- | 4.955 | 1.07 | 0.249 | 87.9 | 152.6 | 2.7 | 0.212 |
| 4-1830 | 4-2750 | 0.443 | 278.2 | -28.5 | -1.90 | 1.278 | 72.4 | 0.693 | 2.930 | 43.5 | 181.8 | --- | 4.960 | 1.11 | 0.250 | 86.0 | 152.0 | 2.7 | 0.212 |
| 4-1830 | 4-2770 | 0.437 | 279.2 | -28.7 | -1.96 | 1.278 | 72.8 | 0.692 | 2.936 | 42.5 | 182.6 | --- | 4.967 | 1.15 | 0.251 | 84.2 | 151.5 | 2.8 | 0.212 |
| 4-1830 | 4-2790 | 0.432 | 280.4 | -28.8 | -2.02 | 1.278 | 73.2 | 0.691 | 2.943 | 41.4 | 183.4 | --- | 4.977 | 1.19 | 0.252 | 82.5 | 151.1 | 2.9 | 0.213 |
| 4-1830 | 4-2810 | 0.426 | 281.6 | -29.0 | -2.08 | 1.279 | 73.7 | 0.690 | 2.952 | 40.4 | 184.1 | --- | 4.988 | 1.25 | 0.254 | 80.9 | 150.8 | 3.0 | 0.214 |
| 4-1830 | 4-2830 | 0.420 | 282.8 | -29.3 | -2.15 | 1.279 | 74.1 | 0.689 | 2.961 | 39.3 | 184.9 | --- | 5.001 | 1.30 | 0.256 | 79.4 | 150.6 | 3.0 | 0.215 |
| 4-1830 | 4-2850 | 0.415 | 284.1 | -29.5 | -2.23 | 1.279 | 74.6 | 0.689 | 2.970 | 38.2 | 185.6 | --- | 5.016 | 1.37 | 0.257 | 78.0 | 150.5 | 3.1 | 0.216 |
| 4-1830 | 4-2870 | 0.409 | 285.5 | -29.7 | -2.32 | 1.280 | 75.0 | 0.688 | 2.981 | 37.0 | 186.3 | --- | 5.032 | 1.44 | 0.259 | 76.6 | 150.5 | 3.2 | 0.217 |
| 4-1830 | 4-2890 | 0.403 | 286.9 | -30.0 | -2.41 | 1.280 | 75.5 | 0.688 | 2.992 | 35.9 | 186.9 | --- | 5.049 | 1.52 | 0.261 | 75.3 | 150.6 | 3.3 | 0.219 |
| 4-1830 | 4-2910 | 0.398 | 288.4 | -30.3 | -2.52 | 1.281 | 76.0 | 0.687 | 3.004 | 34.7 | 187.6 | --- | 5.068 | 1.62 | 0.263 | 74.1 | 150.8 | 3.4 | 0.221 |
| 4-1830 | 4-2930 | 0.393 | 290.0 | -30.6 | -2.64 | 1.281 | 76.4 | 0.687 | 3.016 | 33.5 | 188.2 | --- | 5.088 | 1.72 | 0.265 | 72.9 | 151.0 | 3.5 | 0.222 |
| 4-1830 | 4-2950 | 0.387 | 291.6 | -31.0 | -2.77 | 1.282 | 76.9 | 0.687 | 3.029 | 32.3 | 188.8 | --- | 5.108 | 1.85 | 0.267 | 71.8 | 151.3 | 3.6 | 0.224 |
| 4-1830 | 4-2970 | 0.382 | 293.3 | -31.5 | -2.93 | 1.283 | 77.4 | 0.686 | 3.042 | 31.1 | 189.4 | --- | 5.130 | 1.99 | 0.270 | 70.8 | 151.7 | 3.7 | 0.226 |
| 4-1830 | 4-2990 | 0.378 | 295.1 | -32.0 | -3.12 | 1.283 | 77.9 | 0.686 | 3.055 | 29.9 | 190.0 | --- | 5.152 | 2.17 | 0.272 | 69.8 | 152.1 | 3.9 | 0.228 |
| 4-1830 | 4-3010 | 0.373 | 297.1 | -32.6 | -3.34 | 1.284 | 78.4 | 0.686 | 3.069 | 28.6 | 190.6 | --- | 5.175 | 2.37 | 0.274 | 68.9 | 152.7 | 4.0 | 0.230 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1830 | 4-3030 | 0.369 | 299.1 | -33.4 | -3.60 | 1.284 | 78.9 | 0.686 | 3.083 | 27.4 | 191.1 | --- | 5.199 | 2.63 | 0.276 | 68.0 | 153.2 | 4.3 | 0.232 |
| 4-1830 | 4-3050 | 0.365 | 301.2 | -34.4 | -3.93 | 1.285 | 79.4 | 0.686 | 3.097 | 26.1 | 191.6 | --- | 5.224 | 2.95 | 0.278 | 67.1 | 153.9 | 4.6 | 0.234 |
| 4-1830 | 4-3070 | 0.362 | 303.5 | -35.7 | -4.35 | 1.285 | 79.9 | 0.687 | 3.112 | 24.8 | 192.2 | --- | 5.249 | 3.36 | 0.280 | 66.3 | 154.6 | 5.0 | 0.237 |
| 4-1830 | 4-3090 | 0.360 | 306.1 | -37.4 | -4.91 | 1.286 | 80.4 | 0.687 | 3.127 | 23.5 | 192.6 | --- | 5.275 | 3.90 | 0.282 | 65.5 | 155.3 | 5.5 | 0.239 |
| 4-1830 | 4-3110 | 0.360 | 309.0 | -39.8 | -5.68 | 1.287 | 81.0 | 0.687 | 3.142 | 22.2 | 193.1 | --- | 5.301 | 4.66 | 0.284 | 64.7 | 156.2 | 6.2 | 0.241 |
| 4-1830 | 4-3130 | 0.364 | 312.4 | -43.3 | -6.82 | 1.287 | 81.5 | 0.688 | 3.157 | 20.9 | 193.6 | --- | 5.328 | 5.79 | 0.286 | 64.0 | 157.1 | 7.3 | 0.244 |
| 4-1830 | 4-3150 | 0.375 | 317.0 | -48.9 | -8.68 | 1.288 | 82.0 | 0.688 | 3.172 | 19.6 | 194.1 | --- | 5.355 | 7.63 | 0.288 | 63.3 | 158.1 | 9.1 | 0.248 |
| 4-1830 | 4-3170 | 0.408 | 324.9 | -58.6 | -12.25 | 1.288 | 82.5 | 0.689 | 3.188 | 18.3 | 194.5 | --- | 5.383 | 11.19 | 0.290 | 62.6 | 159.6 | 12.4 | 0.255 |
| 4-1830 | 4-3190 | 0.536 | 355.8 | -76.6 | -21.76 | 1.289 | 83.1 | 0.689 | 3.203 | 17.0 | 194.9 | --- | 5.412 | 20.70 | 0.292 | 62.0 | 162.5 | 20.2 | 0.277 |
| 4-1830 | 4-3210 | 1.444 | 137.2 | -48.5 | -77.45 | 1.290 | 83.4 | 0.690 | 3.219 | 16.1 | 195.4 | --- | 5.441 | 76.37 | 0.294 | 61.3 | 179.0 | 30.8 | 0.491 |
| 4-1830 | 4-3230 | 0.563 | 288.1 | 45.4 | 23.79 | 1.290 | 84.3 | 0.691 | 3.235 | 14.0 | 195.8 | --- | 5.469 | -24.88 | 0.295 | 60.8 | 163.2 | -21.0 | 0.292 |
| 4-1830 | 4-3250 | 0.387 | 305.1 | 22.4 | 11.30 | 1.291 | 84.8 | 0.691 | 3.251 | 12.7 | 196.2 | --- | 5.499 | -12.40 | 0.297 | 60.2 | 162.4 | -11.2 | 0.265 |
| 4-1830 | 4-3270 | 0.345 | 311.9 | 10.7 | 7.10 | 1.291 | 85.3 | 0.692 | 3.267 | 11.4 | 196.5 | --- | 5.528 | -8.21 | 0.299 | 59.6 | 163.2 | -7.2 | 0.261 |
| 4-1830 | 4-3290 | 0.328 | 316.4 | 4.4 | 5.02 | 1.292 | 85.9 | 0.693 | 3.283 | 10.0 | 196.9 | --- | 5.559 | -6.14 | 0.301 | 59.1 | 164.2 | -5.2 | 0.261 |
| 4-1830 | 4-3310 | 0.320 | 320.1 | 0.6 | 3.77 | 1.293 | 86.5 | 0.694 | 3.299 | 8.6 | 197.3 | --- | 5.589 | -4.90 | 0.302 | 58.6 | 165.2 | -4.1 | 0.262 |
| 4-1830 | 4-3330 | 0.315 | 323.3 | -1.7 | 2.94 | 1.293 | 87.0 | 0.695 | 3.315 | 7.2 | 197.6 | --- | 5.620 | -4.09 | 0.304 | 58.0 | 166.3 | -3.3 | 0.263 |
| 4-1830 | 4-3350 | 0.312 | 326.3 | -3.2 | 2.35 | 1.294 | 87.6 | 0.696 | 3.331 | 5.8 | 198.0 | --- | 5.652 | -3.51 | 0.305 | 57.5 | 167.5 | -2.7 | 0.265 |
| 4-1830 | 4-3370 | 0.311 | 329.2 | -4.0 | 1.91 | 1.294 | 88.2 | 0.698 | 3.348 | 4.4 | 198.3 | --- | 5.683 | -3.08 | 0.307 | 57.0 | 168.6 | -2.4 | 0.267 |
| 4-1830 | 4-3390 | 0.310 | 332.0 | -4.5 | 1.56 | 1.295 | 88.8 | 0.699 | 3.364 | 3.0 | 198.6 | --- | 5.715 | -2.74 | 0.308 | 56.6 | 169.8 | -2.1 | 0.269 |
| 4-1830 | 4-3410 | 0.310 | 334.7 | -4.7 | 1.29 | 1.295 | 89.3 | 0.700 | 3.380 | 1.6 | 198.9 | --- | 5.747 | -2.48 | 0.310 | 56.1 | 171.0 | -1.9 | 0.271 |
| 4-1830 | 4-3430 | 0.310 | 337.3 | -4.7 | 1.06 | 1.296 | 89.9 | 0.702 | 3.396 | 0.2 | 199.2 | --- | 5.780 | -2.26 | 0.311 | 55.6 | 172.2 | -1.7 | 0.272 |
| 4-1840 | 4-2180 | 0.704 | 276.3 | -25.2 | -1.06 | 1.400 | 61.5 | 0.992 | 93.877 | 57.2 | 134.0 | --- | --- | 0.56 | 0.623 | 156.4 | 176.4 | 0.4 | 0.620 |
| 4-1840 | 4-2200 | 0.690 | 274.9 | -25.3 | -1.08 | 1.380 | 61.5 | 0.947 | 14.782 | 58.8 | 137.4 | --- | --- | 0.56 | 0.576 | 154.8 | 176.1 | 0.4 | 0.574 |
| 4-1840 | 4-2220 | 0.679 | 273.8 | -25.3 | -1.09 | 1.362 | 61.4 | 0.912 | 8.725 | 60.3 | 140.7 | --- | --- | 0.55 | 0.534 | 153.0 | 175.8 | 0.5 | 0.533 |
| 4-1840 | 4-2240 | 0.669 | 272.8 | -25.4 | -1.11 | 1.348 | 61.4 | 0.882 | 6.513 | 61.5 | 143.7 | --- | --- | 0.55 | 0.497 | 151.1 | 175.4 | 0.5 | 0.497 |
| 4-1840 | 4-2260 | 0.660 | 272.0 | -25.4 | -1.13 | 1.336 | 61.4 | 0.858 | 5.378 | 62.6 | 146.6 | --- | --- | 0.55 | 0.463 | 149.0 | 174.9 | 0.6 | 0.464 |
| 4-1840 | 4-2280 | 0.652 | 271.3 | -25.5 | -1.15 | 1.326 | 61.4 | 0.838 | 4.693 | 63.4 | 149.2 | --- | --- | 0.55 | 0.434 | 146.9 | 174.3 | 0.6 | 0.434 |
| 4-1840 | 4-2300 | 0.645 | 270.8 | -25.5 | -1.16 | 1.317 | 61.5 | 0.821 | 4.240 | 64.1 | 151.7 | --- | --- | 0.55 | 0.407 | 144.6 | 173.6 | 0.7 | 0.408 |
| 4-1840 | 4-2320 | 0.639 | 270.5 | -25.6 | -1.18 | 1.310 | 61.6 | 0.807 | 3.922 | 64.6 | 154.0 | --- | --- | 0.55 | 0.383 | 142.2 | 172.9 | 0.7 | 0.384 |
| 4-1840 | 4-2340 | 0.633 | 270.2 | -25.6 | -1.20 | 1.304 | 61.7 | 0.795 | 3.689 | 64.9 | 156.2 | --- | --- | 0.55 | 0.362 | 139.7 | 172.1 | 0.8 | 0.363 |
| 4-1840 | 4-2360 | 0.626 | 270.0 | -25.7 | -1.21 | 1.299 | 61.8 | 0.785 | 3.513 | 65.2 | 158.2 | --- | --- | 0.55 | 0.343 | 137.0 | 171.2 | 0.8 | 0.344 |
| 4-1840 | 4-2380 | 0.621 | 270.0 | -25.7 | -1.23 | 1.294 | 62.0 | 0.776 | 3.377 | 65.2 | 160.1 | --- | --- | 0.55 | 0.326 | 134.3 | 170.2 | 0.9 | 0.326 |
| 4-1840 | 4-2400 | 0.615 | 270.0 | -25.8 | -1.25 | 1.290 | 62.2 | 0.768 | 3.270 | 65.2 | 161.9 | --- | --- | 0.55 | 0.311 | 131.5 | 169.1 | 1.0 | 0.311 |
| 4-1840 | 4-2420 | 0.609 | 270.1 | -25.8 | -1.27 | 1.287 | 62.4 | 0.761 | 3.186 | 65.1 | 163.6 | --- | --- | 0.55 | 0.298 | 128.6 | 168.0 | 1.1 | 0.297 |
| 4-1840 | 4-2440 | 0.603 | 270.3 | -25.9 | -1.29 | 1.285 | 62.7 | 0.755 | 3.118 | 64.8 | 165.2 | --- | --- | 0.56 | 0.287 | 125.6 | 166.8 | 1.2 | 0.285 |
| 4-1840 | 4-2460 | 0.598 | 270.5 | -25.9 | -1.30 | 1.282 | 62.9 | 0.750 | 3.064 | 64.5 | 166.6 | --- | --- | 0.56 | 0.277 | 122.6 | 165.6 | 1.2 | 0.274 |
| 4-1840 | 4-2480 | 0.592 | 270.8 | -26.0 | -1.32 | 1.281 | 63.2 | 0.745 | 3.021 | 64.1 | 168.1 | --- | --- | 0.56 | 0.269 | 119.6 | 164.4 | 1.3 | 0.264 |
| 4-1840 | 4-2500 | 0.586 | 271.2 | -26.1 | -1.34 | 1.279 | 63.5 | 0.740 | 2.986 | 63.6 | 169.4 | --- | --- | 0.57 | 0.262 | 116.5 | 163.1 | 1.4 | 0.256 |
| 4-1840 | 4-2520 | 0.580 | 271.6 | -26.1 | -1.36 | 1.278 | 63.8 | 0.737 | 2.958 | 63.1 | 170.7 | --- | --- | 0.57 | 0.256 | 113.5 | 161.9 | 1.5 | 0.249 |
| 4-1840 | 4-2540 | 0.574 | 272.0 | -26.2 | -1.38 | 1.277 | 64.1 | 0.733 | 2.936 | 62.4 | 171.9 | --- | --- | 0.58 | 0.251 | 110.6 | 160.6 | 1.6 | 0.243 |
| 4-1840 | 4-2560 | 0.568 | 272.5 | -26.3 | -1.40 | 1.276 | 64.4 | 0.730 | 2.919 | 61.8 | 173.1 | --- | --- | 0.59 | 0.248 | 107.7 | 159.4 | 1.7 | 0.237 |
| 4-1840 | 4-2580 | 0.562 | 273.1 | -26.3 | -1.42 | 1.275 | 64.8 | 0.727 | 2.907 | 61.1 | 174.2 | --- | --- | 0.59 | 0.245 | 104.8 | 158.2 | 1.7 | 0.233 |
| 4-1840 | 4-2600 | 0.556 | 273.7 | -26.4 | -1.44 | 1.275 | 65.2 | 0.724 | 2.898 | 60.3 | 175.3 | --- | --- | 0.60 | 0.243 | 102.1 | 157.1 | 1.8 | 0.229 |
| 4-1840 | 4-2620 | 0.550 | 274.3 | -26.5 | -1.46 | 1.275 | 65.5 | 0.721 | 2.892 | 59.5 | 176.3 | --- | --- | 0.61 | 0.241 | 99.5 | 156.0 | 1.9 | 0.226 |
| 4-1840 | 4-2640 | 0.543 | 275.0 | -26.5 | -1.48 | 1.275 | 65.9 | 0.719 | 2.888 | 58.6 | 177.3 | --- | --- | 0.62 | 0.240 | 96.9 | 155.0 | 2.0 | 0.224 |
| 4-1840 | 4-2660 | 0.537 | 275.7 | -26.6 | -1.51 | 1.275 | 66.3 | 0.717 | 2.887 | 57.8 | 178.2 | --- | --- | 0.63 | 0.240 | 94.5 | 154.1 | 2.0 | 0.222 |
| 4-1840 | 4-2680 | 0.530 | 276.5 | -26.7 | -1.53 | 1.275 | 66.7 | 0.715 | 2.888 | 56.8 | 179.1 | --- | --- | 0.65 | 0.240 | 92.2 | 153.3 | 2.1 | 0.220 |
| 4-1840 | 4-2700 | 0.524 | 277.2 | -26.8 | -1.56 | 1.275 | 67.1 | 0.713 | 2.891 | 55.9 | 180.0 | --- | 4.952 | 0.66 | 0.241 | 90.0 | 152.5 | 2.1 | 0.219 |
| 4-1840 | 4-2720 | 0.517 | 278.1 | -26.8 | -1.58 | 1.275 | 67.6 | 0.711 | 2.895 | 54.9 | 180.8 | --- | 4.954 | 0.68 | 0.242 | 87.9 | 151.9 | 2.2 | 0.219 |
| 4-1840 | 4-2740 | 0.511 | 278.9 | -26.9 | -1.61 | 1.275 | 68.0 | 0.710 | 2.900 | 53.9 | 181.7 | --- | 4.959 | 0.69 | 0.243 | 85.9 | 151.4 | 2.2 | 0.219 |
| 4-1840 | 4-2760 | 0.504 | 279.9 | -27.0 | -1.64 | 1.275 | 68.4 | 0.708 | 2.907 | 52.8 | 182.5 | --- | 4.966 | 0.71 | 0.244 | 84.1 | 150.9 | 2.3 | 0.219 |
| 4-1840 | 4-2780 | 0.497 | 280.8 | -27.1 | -1.67 | 1.276 | 68.9 | 0.707 | 2.915 | 51.8 | 183.2 | --- | 4.976 | 0.73 | 0.246 | 82.3 | 150.5 | 2.3 | 0.219 |
| 4-1840 | 4-2800 | 0.491 | 281.8 | -27.2 | -1.70 | 1.276 | 69.3 | 0.706 | 2.924 | 50.7 | 184.0 | --- | 4.987 | 0.75 | 0.248 | 80.7 | 150.3 | 2.4 | 0.220 |
| 4-1840 | 4-2820 | 0.484 | 282.8 | -27.2 | -1.73 | 1.277 | 69.8 | 0.704 | 2.934 | 49.6 | 184.7 | --- | 5.000 | 0.77 | 0.250 | 79.1 | 150.1 | 2.4 | 0.221 |
| 4-1840 | 4-2840 | 0.477 | 283.9 | -27.3 | -1.77 | 1.277 | 70.3 | 0.703 | 2.944 | 48.4 | 185.4 | --- | 5.014 | 0.80 | 0.252 | 77.6 | 150.0 | 2.4 | 0.222 |
| 4-1840 | 4-2860 | 0.470 | 285.0 | -27.4 | -1.81 | 1.278 | 70.7 | 0.702 | 2.955 | 47.3 | 186.0 | --- | 5.030 | 0.83 | 0.254 | 76.2 | 150.0 | 2.5 | 0.223 |
| 4-1840 | 4-2880 | 0.464 | 286.1 | -27.5 | -1.85 | 1.278 | 71.2 | 0.701 | 2.967 | 46.1 | 186.7 | --- | 5.047 | 0.86 | 0.256 | 74.9 | 150.1 | 2.5 | 0.224 |
| 4-1840 | 4-2900 | 0.457 | 287.3 | -27.6 | -1.90 | 1.279 | 71.7 | 0.700 | 2.979 | 44.9 | 187.3 | --- | 5.066 | 0.90 | 0.258 | 73.7 | 150.3 | 2.5 | 0.226 |
| 4-1840 | 4-2920 | 0.450 | 288.6 | -27.7 | -1.94 | 1.279 | 72.2 | 0.700 | 2.992 | 43.7 | 188.0 | --- | 5.085 | 0.93 | 0.261 | 72.5 | 150.5 | 2.5 | 0.227 |
| 4-1840 | 4-2940 | 0.444 | 289.9 | -27.7 | -2.00 | 1.280 | 72.7 | 0.699 | 3.005 | 42.5 | 188.6 | --- | 5.105 | 0.98 | 0.263 | 71.4 | 150.8 | 2.6 | 0.229 |
| 4-1840 | 4-2960 | 0.437 | 291.2 | -27.8 | -2.05 | 1.280 | 73.2 | 0.698 | 3.019 | 41.3 | 189.1 | --- | 5.127 | 1.03 | 0.265 | 70.4 | 151.2 | 2.6 | 0.230 |
| 4-1840 | 4-2980 | 0.431 | 292.6 | -28.0 | -2.12 | 1.281 | 73.7 | 0.698 | 3.033 | 40.1 | 189.7 | --- | 5.149 | 1.08 | 0.267 | 69.4 | 151.7 | 2.6 | 0.232 |
| 4-1840 | 4-3000 | 0.424 | 294.0 | -28.1 | -2.19 | 1.282 | 74.2 | 0.697 | 3.047 | 38.8 | 190.3 | --- | 5.172 | 1.14 | 0.270 | 68.4 | 152.2 | 2.7 | 0.234 |
| 4-1840 | 4-3020 | 0.418 | 295.5 | -28.2 | -2.27 | 1.282 | 74.7 | 0.697 | 3.062 | 37.5 | 190.8 | --- | 5.195 | 1.22 | 0.272 | 67.5 | 152.7 | 2.7 | 0.236 |
| 4-1840 | 4-3040 | 0.412 | 297.1 | -28.4 | -2.36 | 1.283 | 75.2 | 0.696 | 3.077 | 36.3 | 191.3 | --- | 5.219 | 1.30 | 0.274 | 66.7 | 153.4 | 2.8 | 0.237 |
| 4-1840 | 4-3060 | 0.405 | 298.7 | -28.6 | -2.46 | 1.283 | 75.7 | 0.696 | 3.092 | 35.0 | 191.8 | --- | 5.244 | 1.39 | 0.277 | 65.9 | 154.0 | 2.8 | 0.239 |
| 4-1840 | 4-3080 | 0.399 | 300.4 | -28.8 | -2.58 | 1.284 | 76.3 | 0.696 | 3.107 | 33.7 | 192.3 | --- | 5.269 | 1.50 | 0.279 | 65.1 | 154.7 | 2.9 | 0.241 |
| 4-1840 | 4-3100 | 0.394 | 302.1 | -29.1 | -2.72 | 1.285 | 76.8 | 0.696 | 3.123 | 32.4 | 192.8 | --- | 5.295 | 1.63 | 0.281 | 64.4 | 155.5 | 3.0 | 0.243 |
| 4-1840 | 4-3120 | 0.388 | 304.0 | -29.4 | -2.89 | 1.285 | 77.3 | 0.696 | 3.138 | 31.0 | 193.3 | --- | 5.322 | 1.79 | 0.283 | 63.7 | 156.3 | 3.1 | 0.245 |
| 4-1840 | 4-3140 | 0.383 | 305.9 | -29.9 | -3.09 | 1.286 | 77.9 | 0.696 | 3.154 | 29.7 | 193.7 | --- | 5.348 | 1.99 | 0.285 | 63.0 | 157.2 | 3.2 | 0.247 |
| 4-1840 | 4-3160 | 0.378 | 307.9 | -30.5 | -3.35 | 1.287 | 78.4 | 0.696 | 3.170 | 28.4 | 194.2 | --- | 5.376 | 2.23 | 0.287 | 62.4 | 158.1 | 3.4 | 0.249 |
| 4-1840 | 4-3180 | 0.374 | 310.1 | -31.3 | -3.67 | 1.287 | 78.9 | 0.696 | 3.186 | 27.0 | 194.6 | --- | 5.403 | 2.54 | 0.289 | 61.8 | 159.0 | 3.7 | 0.251 |
| 4-1840 | 4-3200 | 0.370 | 312.5 | -32.4 | -4.09 | 1.288 | 79.5 | 0.696 | 3.203 | 25.7 | 195.0 | --- | 5.432 | 2.96 | 0.291 | 61.2 | 160.0 | 4.0 | 0.253 |
| 4-1840 | 4-3220 | 0.368 | 315.1 | -34.1 | -4.68 | 1.288 | 80.0 | 0.696 | 3.219 | 24.3 | 195.4 | --- | 5.460 | 3.54 | 0.293 | 60.6 | 161.0 | 4.6 | 0.255 |
| 4-1840 | 4-3240 | 0.368 | 318.2 | -36.7 | -5.56 | 1.289 | 80.6 | 0.697 | 3.235 | 23.0 | 195.8 | --- | 5.489 | 4.41 | 0.295 | 60.0 | 162.1 | 5.3 | 0.257 |
| 4-1840 | 4-3260 | 0.372 | 322.1 | -41.0 | -7.00 | 1.290 | 81.1 | 0.697 | 3.252 | 21.6 | 196.2 | --- | 5.518 | 5.84 | 0.297 | 59.5 | 163.2 | 6.6 | 0.260 |
| 4-1840 | 4-3280 | 0.392 | 328.2 | -49.0 | -9.82 | 1.290 | 81.7 | 0.697 | 3.268 | 20.2 | 196.6 | --- | 5.548 | 8.66 | 0.299 | 59.0 | 164.7 | 9.2 | 0.264 |
| 4-1840 | 4-3300 | 0.483 | 345.5 | -66.9 | -17.72 | 1.291 | 82.2 | 0.698 | 3.285 | 18.9 | 197.0 | --- | 5.577 | 16.54 | 0.300 | 58.5 | 167.2 | 15.9 | 0.279 |
| 4-1840 | 4-3320 | 1.504 | 145.9 | -49.4 | -81.50 | 1.291 | 82.6 | 0.699 | 3.302 | 17.9 | 197.3 | --- | 5.608 | 80.32 | 0.302 | 58.0 | 186.8 | 29.3 | 0.510 |
| 4-1840 | 4-3340 | 0.470 | 300.9 | 34.9 | 17.14 | 1.292 | 83.4 | 0.699 | 3.318 | 16.0 | 197.7 | --- | 5.638 | -18.33 | 0.304 | 57.6 | 168.1 | -15.8 | 0.286 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| BEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1840 | 4-3360 | 0.362 | 314.4 | 13.6 | 7.97 | 1.293 | 84.0 | 0.700 | 3.335 | 14.6 | 198.0 | --- | 5.668 | -9.17 | 0.306 | 57.1 | 168.3 | -8.0 | 0.272 |
| 4-1840 | 4-3380 | 0.337 | 320.3 | 4.5 | 4.89 | 1.293 | 84.6 | 0.700 | 3.352 | 13.2 | 198.4 | --- | 5.699 | -6.10 | 0.307 | 56.6 | 169.3 | -5.2 | 0.271 |
| 4-1840 | 4-3400 | 0.327 | 324.3 | -0.1 | 3.35 | 1.294 | 85.1 | 0.701 | 3.368 | 11.8 | 198.7 | --- | 5.731 | -4.57 | 0.309 | 56.2 | 170.5 | -3.8 | 0.271 |
| 4-1840 | 4-3420 | 0.322 | 327.7 | -2.6 | 2.43 | 1.294 | 85.7 | 0.702 | 3.385 | 10.4 | 199.0 | --- | 5.762 | -3.66 | 0.310 | 55.8 | 171.7 | -3.0 | 0.272 |
| 4-1840 | 4-3440 | 0.318 | 330.7 | -4.1 | 1.82 | 1.295 | 86.3 | 0.703 | 3.402 | 9.0 | 199.3 | --- | 5.794 | -3.05 | 0.312 | 55.4 | 172.9 | -2.5 | 0.274 |
| 4-1850 | 4-2190 | 0.803 | 276.5 | -24.9 | -1.12 | 1.387 | 55.2 | 0.970 | 22.491 | 70.9 | 139.1 | --- | --- | 0.37 | 0.596 | 157.2 | 174.9 | 0.4 | 0.606 |
| 4-1850 | 4-2210 | 0.788 | 275.6 | -25.0 | -1.13 | 1.368 | 55.2 | 0.934 | 10.250 | 72.4 | 142.3 | --- | --- | 0.36 | 0.550 | 155.5 | 174.5 | 0.4 | 0.562 |
| 4-1850 | 4-2230 | 0.775 | 274.8 | -25.0 | -1.15 | 1.352 | 55.3 | 0.905 | 7.079 | 73.6 | 145.3 | --- | --- | 0.36 | 0.509 | 153.6 | 174.1 | 0.5 | 0.522 |
| 4-1850 | 4-2250 | 0.764 | 274.1 | -25.1 | -1.16 | 1.338 | 55.4 | 0.882 | 5.637 | 74.6 | 148.1 | --- | --- | 0.36 | 0.472 | 151.7 | 173.6 | 0.5 | 0.487 |
| 4-1850 | 4-2270 | 0.754 | 273.6 | -25.1 | -1.17 | 1.327 | 55.6 | 0.862 | 4.821 | 75.4 | 150.7 | --- | --- | 0.35 | 0.440 | 149.5 | 172.9 | 0.6 | 0.455 |
| 4-1850 | 4-2290 | 0.744 | 273.3 | -25.1 | -1.18 | 1.318 | 55.7 | 0.846 | 4.302 | 76.0 | 153.1 | --- | --- | 0.35 | 0.411 | 147.3 | 172.3 | 0.6 | 0.427 |
| 4-1850 | 4-2310 | 0.736 | 273.0 | -25.2 | -1.19 | 1.310 | 55.9 | 0.832 | 3.946 | 76.4 | 155.3 | --- | --- | 0.35 | 0.385 | 144.9 | 171.5 | 0.6 | 0.402 |
| 4-1850 | 4-2330 | 0.728 | 272.8 | -25.2 | -1.20 | 1.303 | 56.1 | 0.820 | 3.691 | 76.7 | 157.4 | --- | --- | 0.35 | 0.362 | 142.4 | 170.6 | 0.7 | 0.379 |
| 4-1850 | 4-2350 | 0.720 | 272.8 | -25.2 | -1.22 | 1.297 | 56.4 | 0.810 | 3.500 | 76.8 | 159.4 | --- | --- | 0.35 | 0.341 | 139.7 | 169.7 | 0.8 | 0.359 |
| 4-1850 | 4-2370 | 0.713 | 272.8 | -25.3 | -1.23 | 1.293 | 56.6 | 0.801 | 3.355 | 76.8 | 161.2 | --- | --- | 0.34 | 0.323 | 136.9 | 168.7 | 0.8 | 0.341 |
| 4-1850 | 4-2390 | 0.706 | 272.9 | -25.3 | -1.24 | 1.289 | 56.9 | 0.793 | 3.243 | 76.6 | 162.9 | --- | --- | 0.34 | 0.307 | 134.0 | 167.7 | 0.9 | 0.325 |
| 4-1850 | 4-2410 | 0.699 | 273.0 | -25.3 | -1.25 | 1.285 | 57.2 | 0.786 | 3.154 | 76.4 | 164.5 | --- | --- | 0.34 | 0.293 | 131.0 | 166.5 | 1.0 | 0.311 |
| 4-1850 | 4-2430 | 0.692 | 273.2 | -25.4 | -1.26 | 1.282 | 57.5 | 0.780 | 3.084 | 76.1 | 166.0 | --- | --- | 0.34 | 0.281 | 127.9 | 165.4 | 1.0 | 0.298 |
| 4-1850 | 4-2450 | 0.685 | 273.5 | -25.4 | -1.27 | 1.280 | 57.8 | 0.775 | 3.028 | 75.7 | 167.4 | --- | --- | 0.34 | 0.270 | 124.8 | 164.2 | 1.1 | 0.286 |
| 4-1850 | 4-2470 | 0.678 | 273.8 | -25.4 | -1.28 | 1.278 | 58.1 | 0.770 | 2.983 | 75.2 | 168.7 | --- | --- | 0.34 | 0.261 | 121.6 | 163.0 | 1.2 | 0.276 |
| 4-1850 | 4-2490 | 0.671 | 274.1 | -25.5 | -1.29 | 1.276 | 58.5 | 0.765 | 2.948 | 74.6 | 170.0 | --- | --- | 0.34 | 0.253 | 118.4 | 161.7 | 1.2 | 0.268 |
| 4-1850 | 4-2510 | 0.664 | 274.5 | -25.5 | -1.30 | 1.275 | 58.8 | 0.761 | 2.919 | 74.0 | 171.2 | --- | --- | 0.34 | 0.247 | 115.1 | 160.5 | 1.3 | 0.260 |
| 4-1850 | 4-2530 | 0.657 | 275.0 | -25.6 | -1.31 | 1.274 | 59.2 | 0.757 | 2.897 | 73.4 | 172.4 | --- | --- | 0.35 | 0.242 | 112.0 | 159.3 | 1.4 | 0.254 |
| 4-1850 | 4-2550 | 0.650 | 275.5 | -25.6 | -1.33 | 1.273 | 59.6 | 0.754 | 2.881 | 72.6 | 173.5 | --- | --- | 0.35 | 0.238 | 108.9 | 158.1 | 1.5 | 0.248 |
| 4-1850 | 4-2570 | 0.643 | 276.0 | -25.6 | -1.34 | 1.273 | 60.0 | 0.750 | 2.868 | 71.8 | 174.5 | --- | --- | 0.35 | 0.235 | 105.8 | 157.0 | 1.5 | 0.243 |
| 4-1850 | 4-2590 | 0.636 | 276.5 | -25.7 | -1.35 | 1.272 | 60.4 | 0.747 | 2.859 | 71.0 | 175.5 | --- | --- | 0.35 | 0.233 | 102.9 | 155.9 | 1.6 | 0.239 |
| 4-1850 | 4-2610 | 0.629 | 277.1 | -25.7 | -1.36 | 1.272 | 60.8 | 0.744 | 2.854 | 70.2 | 176.5 | --- | --- | 0.36 | 0.231 | 100.0 | 154.9 | 1.6 | 0.236 |
| 4-1850 | 4-2630 | 0.622 | 277.7 | -25.7 | -1.37 | 1.272 | 61.2 | 0.742 | 2.851 | 69.3 | 177.4 | --- | --- | 0.36 | 0.231 | 97.3 | 154.0 | 1.7 | 0.233 |
| 4-1850 | 4-2650 | 0.615 | 278.4 | -25.7 | -1.38 | 1.272 | 61.6 | 0.739 | 2.850 | 68.3 | 178.3 | --- | --- | 0.36 | 0.230 | 94.7 | 153.1 | 1.8 | 0.231 |
| 4-1850 | 4-2670 | 0.607 | 279.1 | -25.8 | -1.40 | 1.272 | 62.1 | 0.737 | 2.852 | 67.4 | 179.2 | --- | --- | 0.37 | 0.231 | 92.3 | 152.3 | 1.8 | 0.230 |
| 4-1850 | 4-2690 | 0.600 | 279.8 | -25.8 | -1.41 | 1.272 | 62.5 | 0.734 | 2.855 | 66.4 | 180.0 | --- | 4.952 | 0.37 | 0.232 | 89.9 | 151.7 | 1.8 | 0.229 |
| 4-1850 | 4-2710 | 0.593 | 280.5 | -25.8 | -1.42 | 1.272 | 63.0 | 0.732 | 2.860 | 65.3 | 180.8 | --- | 4.954 | 0.38 | 0.233 | 87.7 | 151.1 | 1.9 | 0.228 |
| 4-1850 | 4-2730 | 0.585 | 281.3 | -25.8 | -1.44 | 1.273 | 63.4 | 0.730 | 2.866 | 64.3 | 181.6 | --- | 4.959 | 0.39 | 0.234 | 85.6 | 150.6 | 1.9 | 0.227 |
| 4-1850 | 4-2750 | 0.578 | 282.0 | -25.9 | -1.45 | 1.273 | 63.9 | 0.728 | 2.873 | 63.2 | 182.4 | --- | 4.966 | 0.39 | 0.236 | 83.7 | 150.1 | 1.9 | 0.227 |
| 4-1850 | 4-2770 | 0.570 | 282.9 | -25.9 | -1.47 | 1.273 | 64.4 | 0.726 | 2.882 | 62.1 | 183.1 | --- | 4.975 | 0.40 | 0.238 | 81.8 | 149.8 | 2.0 | 0.228 |
| 4-1850 | 4-2790 | 0.563 | 283.7 | -25.9 | -1.48 | 1.274 | 64.9 | 0.725 | 2.891 | 61.0 | 183.8 | --- | 4.987 | 0.41 | 0.240 | 80.1 | 149.6 | 2.0 | 0.228 |
| 4-1850 | 4-2810 | 0.555 | 284.6 | -25.9 | -1.50 | 1.274 | 65.4 | 0.723 | 2.902 | 59.9 | 184.5 | --- | 5.000 | 0.42 | 0.242 | 78.5 | 149.5 | 2.0 | 0.229 |
| 4-1850 | 4-2830 | 0.548 | 285.5 | -25.9 | -1.51 | 1.275 | 65.8 | 0.721 | 2.913 | 58.7 | 185.2 | --- | 5.014 | 0.43 | 0.244 | 77.0 | 149.4 | 2.0 | 0.229 |
| 4-1850 | 4-2850 | 0.540 | 286.4 | -25.9 | -1.53 | 1.275 | 66.3 | 0.720 | 2.924 | 57.5 | 185.8 | --- | 5.030 | 0.44 | 0.247 | 75.5 | 149.5 | 2.0 | 0.230 |
| 4-1850 | 4-2870 | 0.532 | 287.4 | -25.9 | -1.55 | 1.276 | 66.8 | 0.719 | 2.937 | 56.4 | 186.5 | --- | 5.047 | 0.45 | 0.249 | 74.2 | 149.6 | 2.0 | 0.231 |
| 4-1850 | 4-2890 | 0.525 | 288.4 | -25.9 | -1.57 | 1.277 | 67.3 | 0.717 | 2.950 | 55.1 | 187.1 | --- | 5.065 | 0.46 | 0.252 | 72.9 | 149.8 | 2.0 | 0.233 |
| 4-1850 | 4-2910 | 0.517 | 289.4 | -25.9 | -1.59 | 1.277 | 67.8 | 0.716 | 2.963 | 53.9 | 187.7 | --- | 5.085 | 0.47 | 0.254 | 71.8 | 150.0 | 2.0 | 0.234 |
| 4-1850 | 4-2930 | 0.510 | 290.5 | -25.9 | -1.61 | 1.278 | 68.4 | 0.715 | 2.977 | 52.7 | 188.3 | --- | 5.105 | 0.49 | 0.257 | 70.6 | 150.3 | 2.0 | 0.235 |
| 4-1850 | 4-2950 | 0.502 | 291.6 | -25.9 | -1.63 | 1.278 | 68.9 | 0.714 | 2.991 | 51.5 | 188.8 | --- | 5.126 | 0.51 | 0.260 | 69.6 | 150.7 | 2.0 | 0.237 |
| 4-1850 | 4-2970 | 0.495 | 292.7 | -25.9 | -1.66 | 1.279 | 69.4 | 0.713 | 3.006 | 50.2 | 189.4 | --- | 5.148 | 0.52 | 0.262 | 68.6 | 151.2 | 2.0 | 0.238 |
| 4-1850 | 4-2990 | 0.487 | 293.9 | -25.8 | -1.68 | 1.280 | 69.9 | 0.712 | 3.021 | 48.9 | 189.9 | --- | 5.171 | 0.54 | 0.265 | 67.7 | 151.7 | 2.0 | 0.240 |
| 4-1850 | 4-3010 | 0.479 | 295.1 | -25.8 | -1.71 | 1.280 | 70.4 | 0.711 | 3.036 | 47.7 | 190.5 | --- | 5.194 | 0.57 | 0.267 | 66.8 | 152.3 | 2.0 | 0.241 |
| 4-1850 | 4-3030 | 0.472 | 296.3 | -25.8 | -1.74 | 1.281 | 71.0 | 0.710 | 3.052 | 46.4 | 191.0 | --- | 5.218 | 0.59 | 0.270 | 66.0 | 152.9 | 2.0 | 0.243 |
| 4-1850 | 4-3050 | 0.465 | 297.6 | -25.8 | -1.78 | 1.282 | 71.5 | 0.709 | 3.067 | 45.1 | 191.5 | --- | 5.242 | 0.62 | 0.272 | 65.2 | 153.6 | 2.0 | 0.245 |
| 4-1850 | 4-3070 | 0.457 | 298.9 | -25.7 | -1.81 | 1.282 | 72.0 | 0.708 | 3.083 | 43.8 | 192.0 | --- | 5.268 | 0.65 | 0.275 | 64.4 | 154.3 | 2.0 | 0.246 |
| 4-1850 | 4-3090 | 0.450 | 300.3 | -25.7 | -1.85 | 1.283 | 72.6 | 0.708 | 3.099 | 42.4 | 192.4 | --- | 5.293 | 0.68 | 0.277 | 63.7 | 155.0 | 2.0 | 0.248 |
| 4-1850 | 4-3110 | 0.443 | 301.7 | -25.6 | -1.90 | 1.284 | 73.1 | 0.707 | 3.116 | 41.1 | 192.9 | --- | 5.319 | 0.72 | 0.279 | 63.0 | 155.8 | 2.0 | 0.249 |
| 4-1850 | 4-3130 | 0.436 | 303.1 | -25.6 | -1.95 | 1.284 | 73.7 | 0.707 | 3.132 | 39.8 | 193.4 | --- | 5.346 | 0.77 | 0.282 | 62.4 | 156.7 | 2.0 | 0.251 |
| 4-1850 | 4-3150 | 0.429 | 304.6 | -25.6 | -2.01 | 1.285 | 74.2 | 0.706 | 3.149 | 38.5 | 193.8 | --- | 5.373 | 0.82 | 0.284 | 61.8 | 157.6 | 2.0 | 0.253 |
| 4-1850 | 4-3170 | 0.422 | 306.1 | -25.6 | -2.07 | 1.286 | 74.8 | 0.706 | 3.165 | 37.1 | 194.2 | --- | 5.400 | 0.88 | 0.286 | 61.2 | 158.5 | 2.0 | 0.254 |
| 4-1850 | 4-3190 | 0.415 | 307.7 | -25.6 | -2.15 | 1.286 | 75.3 | 0.706 | 3.182 | 35.8 | 194.7 | --- | 5.427 | 0.95 | 0.288 | 60.6 | 159.4 | 2.0 | 0.256 |
| 4-1850 | 4-3210 | 0.409 | 309.4 | -25.6 | -2.24 | 1.287 | 75.9 | 0.705 | 3.199 | 34.4 | 195.1 | --- | 5.455 | 1.03 | 0.290 | 60.1 | 160.4 | 2.0 | 0.258 |
| 4-1850 | 4-3230 | 0.402 | 311.1 | -25.7 | -2.34 | 1.288 | 76.4 | 0.705 | 3.216 | 33.0 | 195.5 | --- | 5.484 | 1.13 | 0.292 | 59.6 | 161.4 | 2.1 | 0.259 |
| 4-1850 | 4-3250 | 0.396 | 312.9 | -25.8 | -2.47 | 1.288 | 77.0 | 0.705 | 3.233 | 31.7 | 195.9 | --- | 5.512 | 1.26 | 0.294 | 59.1 | 162.4 | 2.1 | 0.261 |
| 4-1850 | 4-3270 | 0.390 | 314.8 | -26.0 | -2.63 | 1.289 | 77.5 | 0.705 | 3.250 | 30.3 | 196.3 | --- | 5.541 | 1.41 | 0.296 | 58.6 | 163.5 | 2.2 | 0.262 |
| 4-1850 | 4-3290 | 0.385 | 316.8 | -26.3 | -2.83 | 1.289 | 78.1 | 0.705 | 3.267 | 28.9 | 196.6 | --- | 5.571 | 1.61 | 0.298 | 58.1 | 164.5 | 2.4 | 0.264 |
| 4-1850 | 4-3310 | 0.380 | 318.9 | -26.8 | -3.10 | 1.290 | 78.7 | 0.705 | 3.284 | 27.5 | 197.0 | --- | 5.600 | 1.87 | 0.300 | 57.7 | 165.7 | 2.6 | 0.266 |
| 4-1850 | 4-3330 | 0.375 | 321.2 | -27.6 | -3.48 | 1.291 | 79.2 | 0.705 | 3.301 | 26.1 | 197.4 | --- | 5.630 | 2.24 | 0.302 | 57.2 | 166.8 | 2.8 | 0.267 |
| 4-1850 | 4-3350 | 0.372 | 323.8 | -29.1 | -4.03 | 1.291 | 79.8 | 0.705 | 3.319 | 24.7 | 197.7 | --- | 5.660 | 2.79 | 0.304 | 56.8 | 168.0 | 3.3 | 0.269 |
| 4-1850 | 4-3370 | 0.371 | 326.9 | -31.6 | -4.94 | 1.292 | 80.4 | 0.706 | 3.336 | 23.4 | 198.0 | --- | 5.690 | 3.70 | 0.305 | 56.4 | 169.2 | 4.1 | 0.271 |
| 4-1850 | 4-3390 | 0.377 | 331.2 | -36.9 | -6.73 | 1.292 | 80.9 | 0.706 | 3.353 | 22.0 | 198.4 | --- | 5.721 | 5.48 | 0.307 | 56.0 | 170.5 | 5.6 | 0.273 |
| 4-1850 | 4-3410 | 0.418 | 340.6 | -50.7 | -11.80 | 1.293 | 81.5 | 0.706 | 3.370 | 20.6 | 198.7 | --- | 5.751 | 10.54 | 0.309 | 55.6 | 172.4 | 10.0 | 0.280 |
| 4-1850 | 4-3430 | 1.371 | 148.5 | -58.4 | -72.49 | 1.294 | 82.0 | 0.707 | 3.387 | 19.4 | 199.0 | --- | 5.783 | 71.23 | 0.310 | 55.2 | 191.6 | 29.6 | 0.479 |
| 4-1850 | 4-3450 | 0.400 | 314.7 | 21.6 | 10.80 | 1.294 | 82.7 | 0.707 | 3.405 | 17.7 | 199.3 | --- | 5.813 | -12.06 | 0.312 | 54.9 | 174.0 | -10.5 | 0.285 |
| 4-1860 | 4-2180 | 0.928 | 278.9 | -24.6 | -1.22 | 1.397 | 48.4 | 0.991 | 62.953 | 83.8 | 141.5 | --- | --- | 0.15 | 0.619 | 160.0 | 173.5 | 0.4 | 0.644 |
| 4-1860 | 4-2200 | 0.909 | 278.1 | -24.6 | -1.22 | 1.375 | 48.6 | 0.957 | 13.038 | 85.1 | 144.6 | --- | --- | 0.15 | 0.568 | 158.4 | 173.1 | 0.4 | 0.595 |
| 4-1860 | 4-2220 | 0.892 | 277.5 | -24.7 | -1.23 | 1.357 | 48.8 | 0.929 | 7.919 | 86.3 | 147.6 | --- | --- | 0.15 | 0.523 | 156.6 | 172.6 | 0.4 | 0.552 |
| 4-1860 | 4-2240 | 0.877 | 277.0 | -24.7 | -1.23 | 1.342 | 49.1 | 0.907 | 5.989 | 87.1 | 150.2 | --- | --- | 0.14 | 0.483 | 154.7 | 172.1 | 0.5 | 0.514 |
| 4-1860 | 4-2260 | 0.864 | 276.7 | -24.8 | -1.24 | 1.329 | 49.4 | 0.888 | 4.987 | 87.8 | 152.7 | --- | --- | 0.14 | 0.447 | 152.7 | 171.4 | 0.5 | 0.480 |
| 4-1860 | 4-2280 | 0.852 | 276.4 | -24.8 | -1.24 | 1.319 | 49.6 | 0.873 | 4.380 | 88.3 | 155.0 | --- | --- | 0.14 | 0.416 | 150.5 | 170.7 | 0.6 | 0.450 |
| 4-1860 | 4-2300 | 0.841 | 276.3 | -24.8 | -1.25 | 1.310 | 49.9 | 0.860 | 3.977 | 88.5 | 157.1 | --- | --- | 0.14 | 0.387 | 148.1 | 169.9 | 0.6 | 0.423 |
| 4-1860 | 4-2320 | 0.831 | 276.2 | -24.8 | -1.25 | 1.303 | 50.2 | 0.848 | 3.694 | 88.7 | 159.0 | --- | --- | 0.14 | 0.362 | 145.6 | 169.0 | 0.7 | 0.399 |
| 4-1860 | 4-2340 | 0.822 | 276.2 | -24.9 | -1.26 | 1.296 | 50.6 | 0.838 | 3.487 | 88.7 | 160.8 | --- | --- | 0.14 | 0.339 | 142.9 | 168.1 | 0.7 | 0.378 |
| 4-1860 | 4-2360 | 0.812 | 276.3 | -24.9 | -1.26 | 1.291 | 50.9 | 0.830 | 3.331 | 88.5 | 162.5 | --- | --- | 0.13 | 0.319 | 140.1 | 167.1 | 0.8 | 0.359 |
| 4-1860 | 4-2380 | 0.803 | 276.4 | -24.9 | -1.27 | 1.287 | 51.3 | 0.822 | 3.211 | 88.3 | 164.1 | --- | --- | 0.13 | 0.302 | 137.1 | 166.0 | 0.8 | 0.342 |
| BEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1860 | 4-2400 | 0.795 | 276.6 | -24.9 | -1.27 | 1.283 | 51.6 | 0.815 | 3.118 | 88.0 | 165.5 | --- | --- | 0.13 | 0.286 | 134.0 | 164.9 | 0.9 | 0.327 |
| 4-1860 | 4-2420 | 0.786 | 276.9 | -24.9 | -1.27 | 1.280 | 52.0 | 0.809 | 3.045 | 87.5 | 166.9 | --- | --- | 0.13 | 0.273 | 130.8 | 163.8 | 0.9 | 0.313 |
| 4-1860 | 4-2440 | 0.778 | 277.2 | -24.9 | -1.28 | 1.278 | 52.4 | 0.803 | 2.987 | 87.0 | 168.3 | --- | --- | 0.13 | 0.261 | 127.5 | 162.6 | 1.0 | 0.301 |
| 4-1860 | 4-2460 | 0.770 | 277.5 | -25.0 | -1.28 | 1.276 | 52.8 | 0.798 | 2.941 | 86.4 | 169.5 | --- | --- | 0.13 | 0.251 | 124.1 | 161.4 | 1.1 | 0.291 |
| 4-1860 | 4-2480 | 0.762 | 277.9 | -25.0 | -1.29 | 1.274 | 53.2 | 0.793 | 2.904 | 85.8 | 170.7 | --- | --- | 0.13 | 0.243 | 120.6 | 160.2 | 1.1 | 0.282 |
| 4-1860 | 4-2500 | 0.754 | 278.3 | -25.0 | -1.29 | 1.273 | 53.6 | 0.789 | 2.876 | 85.1 | 171.8 | --- | --- | 0.13 | 0.236 | 117.2 | 159.0 | 1.2 | 0.274 |
| 4-1860 | 4-2520 | 0.746 | 278.7 | -25.0 | -1.30 | 1.272 | 54.1 | 0.785 | 2.854 | 84.3 | 172.9 | --- | --- | 0.13 | 0.231 | 113.7 | 157.9 | 1.3 | 0.267 |
| 4-1860 | 4-2540 | 0.738 | 279.2 | -25.0 | -1.30 | 1.271 | 54.5 | 0.781 | 2.837 | 83.5 | 173.9 | --- | --- | 0.13 | 0.226 | 110.3 | 156.7 | 1.3 | 0.261 |
| 4-1860 | 4-2560 | 0.730 | 279.7 | -25.0 | -1.30 | 1.270 | 54.9 | 0.778 | 2.825 | 82.7 | 174.9 | --- | --- | 0.13 | 0.223 | 107.0 | 155.7 | 1.4 | 0.256 |
| 4-1860 | 4-2580 | 0.722 | 280.2 | -25.0 | -1.31 | 1.270 | 55.4 | 0.774 | 2.816 | 81.8 | 175.8 | --- | --- | 0.13 | 0.221 | 103.8 | 154.6 | 1.4 | 0.252 |
| 4-1860 | 4-2600 | 0.714 | 280.8 | -25.0 | -1.31 | 1.270 | 55.9 | 0.771 | 2.811 | 80.9 | 176.8 | --- | --- | 0.13 | 0.220 | 100.7 | 153.7 | 1.5 | 0.248 |
| 4-1860 | 4-2620 | 0.706 | 281.4 | -25.0 | -1.32 | 1.269 | 56.3 | 0.768 | 2.809 | 79.9 | 177.6 | --- | --- | 0.13 | 0.219 | 97.8 | 152.8 | 1.5 | 0.245 |
| 4-1860 | 4-2640 | 0.698 | 282.0 | -25.0 | -1.32 | 1.269 | 56.8 | 0.765 | 2.809 | 78.9 | 178.5 | --- | --- | 0.13 | 0.219 | 94.9 | 152.0 | 1.6 | 0.243 |
| 4-1860 | 4-2660 | 0.690 | 282.6 | -25.0 | -1.32 | 1.270 | 57.3 | 0.762 | 2.811 | 77.9 | 179.3 | --- | --- | 0.13 | 0.219 | 92.3 | 151.3 | 1.6 | 0.241 |
| 4-1860 | 4-2680 | 0.681 | 283.3 | -25.0 | -1.33 | 1.270 | 57.8 | 0.759 | 2.814 | 76.9 | 180.1 | --- | 4.951 | 0.13 | 0.220 | 89.8 | 150.7 | 1.6 | 0.240 |
| 4-1860 | 4-2700 | 0.673 | 283.9 | -25.0 | -1.33 | 1.270 | 58.3 | 0.757 | 2.820 | 75.8 | 180.8 | --- | 4.954 | 0.13 | 0.222 | 87.4 | 150.1 | 1.7 | 0.239 |
| 4-1860 | 4-2720 | 0.665 | 284.6 | -25.0 | -1.34 | 1.270 | 58.7 | 0.754 | 2.827 | 74.7 | 181.6 | --- | 4.959 | 0.13 | 0.224 | 85.2 | 149.7 | 1.7 | 0.238 |
| 4-1860 | 4-2740 | 0.657 | 285.3 | -24.9 | -1.34 | 1.271 | 59.2 | 0.752 | 2.835 | 73.6 | 182.3 | --- | 4.966 | 0.14 | 0.226 | 83.1 | 149.3 | 1.7 | 0.238 |
| 4-1860 | 4-2760 | 0.649 | 286.1 | -24.9 | -1.35 | 1.271 | 59.8 | 0.750 | 2.844 | 72.5 | 183.0 | --- | 4.976 | 0.14 | 0.228 | 81.1 | 149.1 | 1.7 | 0.238 |
| 4-1860 | 4-2780 | 0.640 | 286.8 | -24.9 | -1.35 | 1.272 | 60.3 | 0.747 | 2.854 | 71.3 | 183.7 | --- | 4.987 | 0.14 | 0.230 | 79.3 | 148.9 | 1.7 | 0.238 |
| 4-1860 | 4-2800 | 0.632 | 287.6 | -24.9 | -1.36 | 1.272 | 60.8 | 0.745 | 2.865 | 70.1 | 184.3 | --- | 5.000 | 0.14 | 0.233 | 77.6 | 148.8 | 1.7 | 0.238 |
| 4-1860 | 4-2820 | 0.624 | 288.4 | -24.8 | -1.36 | 1.273 | 61.3 | 0.743 | 2.877 | 69.0 | 185.0 | --- | 5.015 | 0.14 | 0.236 | 76.0 | 148.8 | 1.7 | 0.239 |
| 4-1860 | 4-2840 | 0.616 | 289.2 | -24.8 | -1.37 | 1.273 | 61.8 | 0.741 | 2.889 | 67.8 | 185.6 | --- | 5.031 | 0.15 | 0.239 | 74.6 | 148.8 | 1.7 | 0.240 |
| 4-1860 | 4-2860 | 0.607 | 290.1 | -24.7 | -1.37 | 1.274 | 62.3 | 0.739 | 2.902 | 66.6 | 186.2 | --- | 5.048 | 0.15 | 0.241 | 73.2 | 149.0 | 1.7 | 0.241 |
| 4-1860 | 4-2880 | 0.599 | 290.9 | -24.7 | -1.38 | 1.275 | 62.9 | 0.738 | 2.916 | 65.3 | 186.8 | --- | 5.066 | 0.15 | 0.244 | 71.9 | 149.2 | 1.7 | 0.242 |
| 4-1860 | 4-2900 | 0.590 | 291.8 | -24.6 | -1.38 | 1.275 | 63.4 | 0.736 | 2.930 | 64.1 | 187.4 | --- | 5.086 | 0.15 | 0.247 | 70.7 | 149.5 | 1.7 | 0.243 |
| 4-1860 | 4-2920 | 0.582 | 292.7 | -24.6 | -1.39 | 1.276 | 63.9 | 0.734 | 2.944 | 62.8 | 188.0 | --- | 5.106 | 0.16 | 0.250 | 69.6 | 149.8 | 1.7 | 0.244 |
| 4-1860 | 4-2940 | 0.574 | 293.7 | -24.5 | -1.40 | 1.277 | 64.5 | 0.733 | 2.959 | 61.6 | 188.5 | --- | 5.127 | 0.16 | 0.253 | 68.5 | 150.2 | 1.7 | 0.245 |
| 4-1860 | 4-2960 | 0.565 | 294.6 | -24.4 | -1.40 | 1.277 | 65.0 | 0.731 | 2.975 | 60.3 | 189.1 | --- | 5.149 | 0.17 | 0.256 | 67.5 | 150.7 | 1.7 | 0.246 |
| 4-1860 | 4-2980 | 0.557 | 295.6 | -24.3 | -1.41 | 1.278 | 65.5 | 0.730 | 2.990 | 59.0 | 189.6 | --- | 5.172 | 0.17 | 0.259 | 66.6 | 151.2 | 1.6 | 0.248 |
| 4-1860 | 4-3000 | 0.549 | 296.6 | -24.3 | -1.42 | 1.279 | 66.1 | 0.728 | 3.006 | 57.7 | 190.1 | --- | 5.195 | 0.17 | 0.261 | 65.7 | 151.8 | 1.6 | 0.249 |
| 4-1860 | 4-3020 | 0.541 | 297.6 | -24.2 | -1.42 | 1.279 | 66.6 | 0.727 | 3.022 | 56.4 | 190.6 | --- | 5.219 | 0.18 | 0.264 | 64.9 | 152.5 | 1.6 | 0.250 |
| 4-1860 | 4-3040 | 0.532 | 298.7 | -24.1 | -1.43 | 1.280 | 67.2 | 0.726 | 3.039 | 55.1 | 191.1 | --- | 5.244 | 0.19 | 0.267 | 64.1 | 153.1 | 1.6 | 0.252 |
| 4-1860 | 4-3060 | 0.524 | 299.8 | -24.0 | -1.44 | 1.281 | 67.7 | 0.724 | 3.055 | 53.8 | 191.6 | --- | 5.268 | 0.19 | 0.269 | 63.4 | 153.9 | 1.5 | 0.253 |
| 4-1860 | 4-3080 | 0.516 | 300.9 | -23.8 | -1.45 | 1.281 | 68.3 | 0.723 | 3.072 | 52.5 | 192.0 | --- | 5.294 | 0.20 | 0.272 | 62.7 | 154.6 | 1.5 | 0.254 |
| 4-1860 | 4-3100 | 0.508 | 302.0 | -23.7 | -1.46 | 1.282 | 68.8 | 0.722 | 3.089 | 51.1 | 192.5 | --- | 5.320 | 0.21 | 0.275 | 62.0 | 155.4 | 1.5 | 0.256 |
| 4-1860 | 4-3120 | 0.500 | 303.2 | -23.6 | -1.47 | 1.283 | 69.4 | 0.721 | 3.106 | 49.8 | 193.0 | --- | 5.346 | 0.21 | 0.277 | 61.4 | 156.3 | 1.4 | 0.257 |
| 4-1860 | 4-3140 | 0.492 | 304.4 | -23.4 | -1.48 | 1.283 | 69.9 | 0.720 | 3.123 | 48.5 | 193.4 | --- | 5.373 | 0.22 | 0.280 | 60.8 | 157.1 | 1.4 | 0.259 |
| 4-1860 | 4-3160 | 0.484 | 305.6 | -23.3 | -1.50 | 1.284 | 70.5 | 0.720 | 3.140 | 47.1 | 193.8 | --- | 5.400 | 0.23 | 0.282 | 60.3 | 158.0 | 1.4 | 0.260 |
| 4-1860 | 4-3180 | 0.476 | 306.9 | -23.1 | -1.51 | 1.285 | 71.1 | 0.719 | 3.158 | 45.8 | 194.3 | --- | 5.427 | 0.25 | 0.284 | 59.7 | 159.0 | 1.3 | 0.261 |
| 4-1860 | 4-3200 | 0.468 | 308.1 | -22.9 | -1.52 | 1.286 | 71.6 | 0.718 | 3.175 | 44.4 | 194.7 | --- | 5.455 | 0.26 | 0.287 | 59.2 | 159.9 | 1.3 | 0.263 |
| 4-1860 | 4-3220 | 0.460 | 309.5 | -22.7 | -1.54 | 1.286 | 72.2 | 0.717 | 3.193 | 43.0 | 195.1 | --- | 5.483 | 0.27 | 0.289 | 58.7 | 160.9 | 1.3 | 0.264 |
| 4-1860 | 4-3240 | 0.453 | 310.8 | -22.6 | -1.56 | 1.287 | 72.8 | 0.717 | 3.210 | 41.7 | 195.5 | --- | 5.511 | 0.29 | 0.291 | 58.3 | 162.0 | 1.2 | 0.266 |
| 4-1860 | 4-3260 | 0.445 | 312.2 | -22.4 | -1.58 | 1.288 | 73.3 | 0.716 | 3.228 | 40.3 | 195.8 | --- | 5.540 | 0.31 | 0.293 | 57.8 | 163.0 | 1.2 | 0.267 |
| 4-1860 | 4-3280 | 0.438 | 313.7 | -22.1 | -1.61 | 1.288 | 73.9 | 0.716 | 3.245 | 38.9 | 196.2 | --- | 5.568 | 0.33 | 0.295 | 57.4 | 164.1 | 1.2 | 0.268 |
| 4-1860 | 4-3300 | 0.430 | 315.2 | -21.9 | -1.64 | 1.289 | 74.5 | 0.715 | 3.263 | 37.5 | 196.6 | --- | 5.597 | 0.36 | 0.297 | 57.0 | 165.2 | 1.1 | 0.270 |
| 4-1860 | 4-3320 | 0.423 | 316.7 | -21.7 | -1.67 | 1.289 | 75.0 | 0.715 | 3.281 | 36.1 | 197.0 | --- | 5.627 | 0.39 | 0.299 | 56.6 | 166.3 | 1.1 | 0.271 |
| 4-1860 | 4-3340 | 0.416 | 318.3 | -21.5 | -1.71 | 1.290 | 75.6 | 0.715 | 3.299 | 34.8 | 197.3 | --- | 5.656 | 0.43 | 0.301 | 56.2 | 167.4 | 1.1 | 0.272 |
| 4-1860 | 4-3360 | 0.409 | 319.9 | -21.3 | -1.76 | 1.291 | 76.2 | 0.715 | 3.316 | 33.4 | 197.7 | --- | 5.686 | 0.48 | 0.303 | 55.8 | 168.5 | 1.0 | 0.274 |
| 4-1860 | 4-3380 | 0.403 | 321.6 | -21.1 | -1.82 | 1.291 | 76.8 | 0.714 | 3.334 | 32.0 | 198.0 | --- | 5.716 | 0.53 | 0.305 | 55.5 | 169.7 | 1.0 | 0.275 |
| 4-1860 | 4-3400 | 0.396 | 323.3 | -20.9 | -1.89 | 1.292 | 77.3 | 0.714 | 3.352 | 30.6 | 198.3 | --- | 5.746 | 0.61 | 0.306 | 55.1 | 170.9 | 1.0 | 0.276 |
| 4-1860 | 4-3420 | 0.390 | 325.1 | -20.8 | -1.99 | 1.293 | 77.9 | 0.714 | 3.370 | 29.2 | 198.6 | --- | 5.776 | 0.71 | 0.308 | 54.8 | 172.1 | 1.1 | 0.277 |
| 4-1860 | 4-3440 | 0.384 | 327.0 | -20.7 | -2.13 | 1.293 | 78.5 | 0.714 | 3.387 | 27.7 | 199.0 | --- | 5.807 | 0.84 | 0.310 | 54.4 | 173.3 | 1.1 | 0.279 |
| 4-1860 | 4-3460 | 0.379 | 329.1 | -20.9 | -2.34 | 1.294 | 79.1 | 0.714 | 3.405 | 26.3 | 199.3 | --- | 5.837 | 1.04 | 0.311 | 54.1 | 174.5 | 1.2 | 0.280 |
| 4-1870 | 4-2190 | 1.041 | 281.2 | -24.3 | -1.38 | 1.385 | 41.4 | 0.978 | 20.248 | 98.6 | 147.7 | --- | --- | -0.12 | 0.592 | 161.7 | 171.6 | 0.4 | 0.635 |
| 4-1870 | 4-2210 | 1.019 | 280.8 | -24.3 | -1.37 | 1.364 | 41.9 | 0.953 | 9.387 | 99.5 | 150.4 | --- | --- | -0.11 | 0.542 | 160.0 | 171.0 | 0.4 | 0.588 |
| 4-1870 | 4-2230 | 1.000 | 280.4 | -24.3 | -1.37 | 1.347 | 42.3 | 0.933 | 6.535 | 100.2 | 152.9 | --- | --- | -0.11 | 0.497 | 158.2 | 170.4 | 0.5 | 0.547 |
| 4-1870 | 4-2250 | 0.983 | 280.2 | -24.4 | -1.37 | 1.333 | 42.7 | 0.916 | 5.234 | 100.7 | 155.1 | --- | --- | -0.11 | 0.458 | 156.3 | 169.8 | 0.5 | 0.510 |
| 4-1870 | 4-2270 | 0.968 | 280.1 | -24.4 | -1.36 | 1.321 | 43.1 | 0.901 | 4.497 | 100.9 | 157.2 | --- | --- | -0.11 | 0.423 | 154.2 | 169.0 | 0.5 | 0.478 |
| 4-1870 | 4-2290 | 0.954 | 280.0 | -24.4 | -1.36 | 1.311 | 43.6 | 0.889 | 4.029 | 101.0 | 159.1 | --- | --- | -0.10 | 0.391 | 151.9 | 168.2 | 0.6 | 0.449 |
| 4-1870 | 4-2310 | 0.942 | 280.0 | -24.4 | -1.35 | 1.303 | 44.0 | 0.879 | 3.710 | 101.0 | 160.9 | --- | --- | -0.10 | 0.363 | 149.4 | 167.3 | 0.6 | 0.423 |
| 4-1870 | 4-2330 | 0.930 | 280.1 | -24.4 | -1.35 | 1.296 | 44.4 | 0.869 | 3.480 | 100.8 | 162.5 | --- | --- | -0.10 | 0.338 | 146.8 | 166.3 | 0.7 | 0.400 |
| 4-1870 | 4-2350 | 0.918 | 280.3 | -24.4 | -1.35 | 1.290 | 44.9 | 0.861 | 3.311 | 100.5 | 164.0 | --- | --- | -0.10 | 0.316 | 144.0 | 165.3 | 0.7 | 0.380 |
| 4-1870 | 4-2370 | 0.907 | 280.5 | -24.5 | -1.34 | 1.286 | 45.3 | 0.854 | 3.182 | 100.1 | 165.5 | --- | --- | -0.10 | 0.297 | 140.9 | 164.3 | 0.8 | 0.362 |
| 4-1870 | 4-2390 | 0.897 | 280.7 | -24.5 | -1.34 | 1.282 | 45.8 | 0.847 | 3.082 | 99.7 | 166.8 | --- | --- | -0.10 | 0.280 | 137.7 | 163.2 | 0.8 | 0.346 |
| 4-1870 | 4-2410 | 0.887 | 281.0 | -24.5 | -1.34 | 1.278 | 46.2 | 0.841 | 3.005 | 99.1 | 168.1 | --- | --- | -0.09 | 0.265 | 134.4 | 162.1 | 0.9 | 0.331 |
| 4-1870 | 4-2430 | 0.877 | 281.4 | -24.4 | -1.33 | 1.276 | 46.7 | 0.835 | 2.944 | 98.5 | 169.3 | --- | --- | -0.09 | 0.252 | 130.9 | 160.9 | 0.9 | 0.319 |
| 4-1870 | 4-2450 | 0.868 | 281.7 | -24.4 | -1.33 | 1.274 | 47.2 | 0.830 | 2.896 | 97.8 | 170.4 | --- | --- | -0.09 | 0.241 | 127.3 | 159.7 | 1.0 | 0.308 |
| 4-1870 | 4-2470 | 0.858 | 282.1 | -24.4 | -1.33 | 1.272 | 47.7 | 0.825 | 2.859 | 97.0 | 171.5 | --- | --- | -0.09 | 0.231 | 123.6 | 158.6 | 1.1 | 0.298 |
| 4-1870 | 4-2490 | 0.849 | 282.6 | -24.4 | -1.32 | 1.270 | 48.2 | 0.820 | 2.830 | 96.2 | 172.5 | --- | --- | -0.09 | 0.224 | 119.8 | 157.5 | 1.1 | 0.290 |
| 4-1870 | 4-2510 | 0.840 | 283.0 | -24.4 | -1.32 | 1.269 | 48.7 | 0.816 | 2.807 | 95.4 | 173.5 | --- | --- | -0.09 | 0.218 | 116.0 | 156.4 | 1.2 | 0.282 |
| 4-1870 | 4-2530 | 0.830 | 283.5 | -24.4 | -1.32 | 1.268 | 49.2 | 0.812 | 2.790 | 94.5 | 174.4 | --- | --- | -0.09 | 0.213 | 112.3 | 155.3 | 1.2 | 0.276 |
| 4-1870 | 4-2550 | 0.821 | 284.0 | -24.4 | -1.32 | 1.268 | 49.7 | 0.808 | 2.778 | 93.6 | 175.3 | --- | --- | -0.09 | 0.209 | 108.6 | 154.3 | 1.3 | 0.271 |
| 4-1870 | 4-2570 | 0.812 | 284.5 | -24.4 | -1.31 | 1.267 | 50.2 | 0.804 | 2.770 | 92.6 | 176.2 | --- | --- | -0.09 | 0.207 | 105.1 | 153.3 | 1.3 | 0.266 |
| 4-1870 | 4-2590 | 0.803 | 285.1 | -24.3 | -1.31 | 1.267 | 50.7 | 0.800 | 2.765 | 91.6 | 177.0 | --- | --- | -0.09 | 0.206 | 101.6 | 152.4 | 1.4 | 0.262 |
| 4-1870 | 4-2610 | 0.794 | 285.6 | -24.3 | -1.31 | 1.267 | 51.2 | 0.797 | 2.763 | 90.6 | 177.8 | --- | --- | -0.09 | 0.205 | 98.4 | 151.6 | 1.4 | 0.259 |
| 4-1870 | 4-2630 | 0.785 | 286.2 | -24.3 | -1.30 | 1.267 | 51.7 | 0.794 | 2.763 | 89.5 | 178.6 | --- | --- | -0.09 | 0.205 | 95.2 | 150.9 | 1.4 | 0.257 |
| 4-1870 | 4-2650 | 0.776 | 286.8 | -24.2 | -1.30 | 1.267 | 52.3 | 0.790 | 2.766 | 88.5 | 179.4 | --- | --- | -0.09 | 0.206 | 92.3 | 150.2 | 1.5 | 0.254 |
| 4-1870 | 4-2670 | 0.767 | 287.4 | -24.2 | -1.30 | 1.267 | 52.8 | 0.787 | 2.770 | 87.4 | 180.1 | --- | 4.951 | -0.09 | 0.207 | 89.5 | 149.7 | 1.5 | 0.253 |
| 4-1870 | 4-2690 | 0.759 | 288.1 | -24.2 | -1.30 | 1.268 | 53.3 | 0.784 | 2.776 | 86.3 | 180.8 | --- | 4.954 | -0.09 | 0.209 | 86.9 | 149.2 | 1.5 | 0.252 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1870 | 4-2710 | 0.750 | 288.7 | -24.1 | -1.29 | 1.268 | 53.9 | 0.781 | 2.784 | 85.1 | 181.5 | --- | 4.959 | -0.09 | 0.211 | 84.5 | 148.8 | 1.5 | 0.251 |
| 4-1870 | 4-2730 | 0.741 | 289.4 | -24.1 | -1.29 | 1.268 | 54.4 | 0.779 | 2.792 | 84.0 | 182.2 | --- | 4.966 | -0.09 | 0.214 | 82.3 | 148.5 | 1.5 | 0.250 |
| 4-1870 | 4-2750 | 0.732 | 290.1 | -24.0 | -1.29 | 1.269 | 55.0 | 0.776 | 2.802 | 82.8 | 182.9 | --- | 4.976 | -0.09 | 0.216 | 80.2 | 148.3 | 1.5 | 0.250 |
| 4-1870 | 4-2770 | 0.723 | 290.8 | -24.0 | -1.28 | 1.270 | 55.5 | 0.773 | 2.813 | 81.6 | 183.5 | --- | 4.988 | -0.09 | 0.219 | 78.3 | 148.2 | 1.5 | 0.250 |
| 4-1870 | 4-2790 | 0.714 | 291.5 | -23.9 | -1.28 | 1.270 | 56.0 | 0.771 | 2.825 | 80.4 | 184.1 | --- | 5.001 | -0.09 | 0.222 | 76.5 | 148.1 | 1.5 | 0.250 |
| 4-1870 | 4-2810 | 0.705 | 292.2 | -23.8 | -1.28 | 1.271 | 56.6 | 0.768 | 2.837 | 79.2 | 184.8 | --- | 5.016 | -0.09 | 0.225 | 74.8 | 148.1 | 1.5 | 0.250 |
| 4-1870 | 4-2830 | 0.696 | 292.9 | -23.8 | -1.27 | 1.271 | 57.2 | 0.766 | 2.850 | 78.0 | 185.4 | --- | 5.032 | -0.09 | 0.229 | 73.3 | 148.2 | 1.5 | 0.251 |
| 4-1870 | 4-2850 | 0.687 | 293.7 | -23.7 | -1.27 | 1.272 | 57.7 | 0.763 | 2.864 | 76.7 | 185.9 | --- | 5.050 | -0.09 | 0.232 | 71.8 | 148.4 | 1.5 | 0.252 |
| 4-1870 | 4-2870 | 0.678 | 294.5 | -23.6 | -1.27 | 1.273 | 58.3 | 0.761 | 2.878 | 75.5 | 186.5 | --- | 5.068 | -0.09 | 0.235 | 70.5 | 148.7 | 1.5 | 0.252 |
| 4-1870 | 4-2890 | 0.669 | 295.2 | -23.5 | -1.27 | 1.273 | 58.8 | 0.759 | 2.893 | 74.2 | 187.1 | --- | 5.088 | -0.10 | 0.238 | 69.3 | 149.0 | 1.5 | 0.253 |
| 4-1870 | 4-2910 | 0.660 | 296.0 | -23.4 | -1.26 | 1.274 | 59.4 | 0.757 | 2.908 | 72.9 | 187.6 | --- | 5.108 | -0.10 | 0.242 | 68.1 | 149.3 | 1.5 | 0.254 |
| 4-1870 | 4-2930 | 0.651 | 296.9 | -23.3 | -1.26 | 1.275 | 59.9 | 0.755 | 2.923 | 71.6 | 188.1 | --- | 5.130 | -0.10 | 0.245 | 67.1 | 149.8 | 1.5 | 0.255 |
| 4-1870 | 4-2950 | 0.642 | 297.7 | -23.2 | -1.25 | 1.276 | 60.5 | 0.753 | 2.939 | 70.4 | 188.7 | --- | 5.152 | -0.10 | 0.248 | 66.1 | 150.3 | 1.4 | 0.256 |
| 4-1870 | 4-2970 | 0.633 | 298.6 | -23.1 | -1.25 | 1.276 | 61.1 | 0.751 | 2.956 | 69.1 | 189.2 | --- | 5.175 | -0.10 | 0.251 | 65.2 | 150.8 | 1.4 | 0.257 |
| 4-1870 | 4-2990 | 0.624 | 299.4 | -23.0 | -1.25 | 1.277 | 61.6 | 0.749 | 2.972 | 67.7 | 189.7 | --- | 5.198 | -0.10 | 0.254 | 64.3 | 151.4 | 1.4 | 0.258 |
| 4-1870 | 4-3010 | 0.615 | 300.3 | -22.9 | -1.24 | 1.278 | 62.2 | 0.747 | 2.989 | 66.4 | 190.2 | --- | 5.222 | -0.11 | 0.257 | 63.5 | 152.0 | 1.3 | 0.259 |
| 4-1870 | 4-3030 | 0.606 | 301.2 | -22.7 | -1.24 | 1.278 | 62.8 | 0.745 | 3.006 | 65.1 | 190.7 | --- | 5.247 | -0.11 | 0.260 | 62.7 | 152.7 | 1.3 | 0.261 |
| 4-1870 | 4-3050 | 0.597 | 302.1 | -22.6 | -1.24 | 1.279 | 63.3 | 0.744 | 3.023 | 63.8 | 191.1 | --- | 5.272 | -0.11 | 0.263 | 62.0 | 153.5 | 1.3 | 0.262 |
| 4-1870 | 4-3070 | 0.588 | 303.1 | -22.4 | -1.23 | 1.280 | 63.9 | 0.742 | 3.040 | 62.5 | 191.6 | --- | 5.297 | -0.11 | 0.266 | 61.4 | 154.2 | 1.2 | 0.263 |
| 4-1870 | 4-3090 | 0.579 | 304.0 | -22.3 | -1.23 | 1.281 | 64.5 | 0.741 | 3.058 | 61.1 | 192.0 | --- | 5.323 | -0.12 | 0.269 | 60.7 | 155.0 | 1.2 | 0.264 |
| 4-1870 | 4-3110 | 0.570 | 305.0 | -22.1 | -1.22 | 1.281 | 65.0 | 0.739 | 3.076 | 59.8 | 192.5 | --- | 5.349 | -0.12 | 0.272 | 60.1 | 155.9 | 1.1 | 0.265 |
| 4-1870 | 4-3130 | 0.561 | 306.0 | -21.9 | -1.22 | 1.282 | 65.6 | 0.738 | 3.093 | 58.4 | 192.9 | --- | 5.376 | -0.12 | 0.274 | 59.6 | 156.8 | 1.1 | 0.266 |
| 4-1870 | 4-3150 | 0.553 | 307.0 | -21.7 | -1.21 | 1.283 | 66.2 | 0.736 | 3.111 | 57.1 | 193.3 | --- | 5.403 | -0.13 | 0.277 | 59.0 | 157.7 | 1.1 | 0.268 |
| 4-1870 | 4-3170 | 0.544 | 308.1 | -21.5 | -1.20 | 1.284 | 66.8 | 0.735 | 3.129 | 55.7 | 193.8 | --- | 5.430 | -0.13 | 0.280 | 58.5 | 158.6 | 1.0 | 0.269 |
| 4-1870 | 4-3190 | 0.535 | 309.1 | -21.3 | -1.20 | 1.284 | 67.3 | 0.734 | 3.147 | 54.3 | 194.2 | --- | 5.457 | -0.14 | 0.282 | 58.1 | 159.6 | 0.9 | 0.270 |
| 4-1870 | 4-3210 | 0.527 | 310.2 | -21.1 | -1.19 | 1.285 | 67.9 | 0.733 | 3.165 | 53.0 | 194.6 | --- | 5.485 | -0.14 | 0.284 | 57.6 | 160.6 | 0.9 | 0.271 |
| 4-1870 | 4-3230 | 0.518 | 311.3 | -20.9 | -1.18 | 1.286 | 68.5 | 0.732 | 3.184 | 51.6 | 195.0 | --- | 5.513 | -0.15 | 0.287 | 57.2 | 161.6 | 0.8 | 0.272 |
| 4-1870 | 4-3250 | 0.510 | 312.5 | -20.6 | -1.18 | 1.286 | 69.1 | 0.731 | 3.202 | 50.2 | 195.4 | --- | 5.541 | -0.15 | 0.289 | 56.8 | 162.6 | 0.8 | 0.273 |
| 4-1870 | 4-3270 | 0.501 | 313.6 | -20.3 | -1.17 | 1.287 | 69.6 | 0.730 | 3.220 | 48.8 | 195.7 | --- | 5.570 | -0.16 | 0.291 | 56.4 | 163.7 | 0.7 | 0.274 |
| 4-1870 | 4-3290 | 0.493 | 314.8 | -20.1 | -1.16 | 1.288 | 70.2 | 0.729 | 3.238 | 47.5 | 196.1 | --- | 5.599 | -0.17 | 0.294 | 56.0 | 164.8 | 0.7 | 0.276 |
| 4-1870 | 4-3310 | 0.485 | 316.0 | -19.8 | -1.15 | 1.288 | 70.8 | 0.728 | 3.257 | 46.1 | 196.5 | --- | 5.628 | -0.18 | 0.296 | 55.6 | 165.9 | 0.6 | 0.277 |
| 4-1870 | 4-3330 | 0.477 | 317.3 | -19.4 | -1.14 | 1.289 | 71.4 | 0.727 | 3.275 | 44.7 | 196.8 | --- | 5.657 | -0.19 | 0.298 | 55.3 | 167.0 | 0.5 | 0.278 |
| 4-1870 | 4-3350 | 0.469 | 318.6 | -19.1 | -1.12 | 1.290 | 72.0 | 0.727 | 3.293 | 43.3 | 197.2 | --- | 5.686 | -0.20 | 0.300 | 54.9 | 168.1 | 0.5 | 0.279 |
| 4-1870 | 4-3370 | 0.461 | 319.8 | -18.7 | -1.11 | 1.290 | 72.5 | 0.726 | 3.311 | 41.9 | 197.5 | --- | 5.716 | -0.21 | 0.302 | 54.6 | 169.3 | 0.4 | 0.280 |
| 4-1870 | 4-3390 | 0.453 | 321.2 | -18.3 | -1.09 | 1.291 | 73.1 | 0.725 | 3.330 | 40.5 | 197.9 | --- | 5.745 | -0.23 | 0.303 | 54.3 | 170.4 | 0.3 | 0.281 |
| 4-1870 | 4-3410 | 0.445 | 322.5 | -17.9 | -1.07 | 1.292 | 73.7 | 0.725 | 3.348 | 39.1 | 198.2 | --- | 5.775 | -0.25 | 0.305 | 54.0 | 171.6 | 0.2 | 0.282 |
| 4-1870 | 4-3430 | 0.437 | 323.9 | -17.5 | -1.05 | 1.292 | 74.3 | 0.724 | 3.366 | 37.7 | 198.5 | --- | 5.805 | -0.27 | 0.307 | 53.7 | 172.8 | 0.1 | 0.283 |
| 4-1870 | 4-3450 | 0.430 | 325.3 | -17.0 | -1.02 | 1.293 | 74.9 | 0.724 | 3.385 | 36.3 | 198.8 | --- | 5.835 | -0.29 | 0.309 | 53.4 | 174.0 | 0.1 | 0.284 |
| 4-1870 | 4-3470 | 0.423 | 326.8 | -16.5 | -0.99 | 1.294 | 75.4 | 0.724 | 3.403 | 34.9 | 199.1 | --- | 5.865 | -0.32 | 0.311 | 53.1 | 175.3 | -0.0 | 0.285 |
| 4-1880 | 4-2200 | 1.157 | 284.3 | -23.9 | -1.63 | 1.374 | 34.4 | 0.975 | 12.649 | 113.5 | 153.9 | --- | --- | -0.47 | 0.566 | 163.8 | 169.4 | 0.4 | 0.632 |
| 4-1880 | 4-2220 | 1.133 | 284.1 | -23.9 | -1.60 | 1.354 | 35.0 | 0.958 | 7.507 | 113.9 | 156.1 | --- | --- | -0.45 | 0.517 | 162.2 | 168.8 | 0.5 | 0.586 |
| 4-1880 | 4-2240 | 1.111 | 284.0 | -23.9 | -1.58 | 1.338 | 35.6 | 0.943 | 5.647 | 114.0 | 158.1 | --- | --- | -0.44 | 0.473 | 160.4 | 168.1 | 0.5 | 0.546 |
| 4-1880 | 4-2260 | 1.092 | 284.0 | -23.9 | -1.56 | 1.325 | 36.2 | 0.930 | 4.696 | 114.0 | 159.9 | --- | --- | -0.42 | 0.433 | 158.4 | 167.3 | 0.5 | 0.511 |
| 4-1880 | 4-2280 | 1.074 | 284.1 | -23.9 | -1.55 | 1.314 | 36.7 | 0.919 | 4.127 | 113.9 | 161.5 | --- | --- | -0.41 | 0.398 | 156.3 | 166.5 | 0.6 | 0.479 |
| 4-1880 | 4-2300 | 1.059 | 284.2 | -24.0 | -1.53 | 1.304 | 37.3 | 0.910 | 3.753 | 113.6 | 163.1 | --- | --- | -0.40 | 0.367 | 153.9 | 165.6 | 0.6 | 0.451 |
| 4-1880 | 4-2320 | 1.044 | 284.4 | -23.9 | -1.51 | 1.297 | 37.9 | 0.901 | 3.492 | 113.2 | 164.5 | --- | --- | -0.39 | 0.339 | 151.4 | 164.6 | 0.7 | 0.427 |
| 4-1880 | 4-2340 | 1.030 | 284.6 | -23.9 | -1.50 | 1.290 | 38.5 | 0.894 | 3.302 | 112.7 | 165.8 | --- | --- | -0.38 | 0.315 | 148.6 | 163.6 | 0.7 | 0.405 |
| 4-1880 | 4-2360 | 1.017 | 284.9 | -23.9 | -1.48 | 1.285 | 39.0 | 0.887 | 3.161 | 112.2 | 167.0 | --- | --- | -0.37 | 0.293 | 145.6 | 162.6 | 0.8 | 0.385 |
| 4-1880 | 4-2380 | 1.004 | 285.2 | -23.9 | -1.47 | 1.281 | 39.6 | 0.880 | 3.053 | 111.5 | 168.2 | --- | --- | -0.36 | 0.274 | 142.4 | 161.5 | 0.8 | 0.368 |
| 4-1880 | 4-2400 | 0.992 | 285.5 | -23.9 | -1.46 | 1.277 | 40.2 | 0.874 | 2.969 | 110.8 | 169.3 | --- | --- | -0.35 | 0.257 | 138.9 | 160.4 | 0.9 | 0.353 |
| 4-1880 | 4-2420 | 0.981 | 285.9 | -23.9 | -1.44 | 1.274 | 40.7 | 0.868 | 2.904 | 110.0 | 170.4 | --- | --- | -0.35 | 0.242 | 135.3 | 159.3 | 0.9 | 0.340 |
| 4-1880 | 4-2440 | 0.970 | 286.3 | -23.8 | -1.43 | 1.272 | 41.3 | 0.863 | 2.854 | 109.2 | 171.4 | --- | --- | -0.34 | 0.229 | 131.5 | 158.1 | 1.0 | 0.328 |
| 4-1880 | 4-2460 | 0.959 | 286.8 | -23.8 | -1.42 | 1.270 | 41.9 | 0.858 | 2.814 | 108.3 | 172.3 | --- | --- | -0.34 | 0.219 | 127.5 | 157.0 | 1.0 | 0.318 |
| 4-1880 | 4-2480 | 0.948 | 287.2 | -23.8 | -1.41 | 1.268 | 42.4 | 0.853 | 2.784 | 107.4 | 173.2 | --- | --- | -0.33 | 0.210 | 123.4 | 156.0 | 1.1 | 0.309 |
| 4-1880 | 4-2500 | 0.938 | 287.7 | -23.7 | -1.39 | 1.267 | 43.0 | 0.849 | 2.760 | 106.5 | 174.1 | --- | --- | -0.33 | 0.203 | 119.2 | 154.9 | 1.1 | 0.301 |
| 4-1880 | 4-2520 | 0.927 | 288.2 | -23.7 | -1.38 | 1.266 | 43.6 | 0.844 | 2.743 | 105.5 | 175.0 | --- | --- | -0.32 | 0.198 | 115.0 | 153.9 | 1.2 | 0.294 |
| 4-1880 | 4-2540 | 0.917 | 288.7 | -23.7 | -1.37 | 1.266 | 44.2 | 0.840 | 2.731 | 104.5 | 175.8 | --- | --- | -0.32 | 0.194 | 110.9 | 153.0 | 1.2 | 0.288 |
| 4-1880 | 4-2560 | 0.907 | 289.2 | -23.6 | -1.36 | 1.265 | 44.7 | 0.836 | 2.722 | 103.4 | 176.6 | --- | --- | -0.32 | 0.191 | 106.9 | 152.1 | 1.2 | 0.283 |
| 4-1880 | 4-2580 | 0.897 | 289.8 | -23.6 | -1.35 | 1.265 | 45.3 | 0.832 | 2.717 | 102.3 | 177.3 | --- | --- | -0.31 | 0.189 | 103.0 | 151.3 | 1.3 | 0.279 |
| 4-1880 | 4-2600 | 0.887 | 290.3 | -23.5 | -1.34 | 1.265 | 45.9 | 0.828 | 2.716 | 101.2 | 178.1 | --- | --- | -0.31 | 0.189 | 99.3 | 150.5 | 1.3 | 0.276 |
| 4-1880 | 4-2620 | 0.877 | 290.9 | -23.5 | -1.33 | 1.265 | 46.5 | 0.825 | 2.716 | 100.1 | 178.8 | --- | --- | -0.31 | 0.189 | 95.7 | 149.8 | 1.3 | 0.273 |
| 4-1880 | 4-2640 | 0.867 | 291.5 | -23.4 | -1.32 | 1.265 | 47.1 | 0.821 | 2.719 | 99.0 | 179.5 | --- | --- | -0.31 | 0.190 | 92.4 | 149.3 | 1.4 | 0.270 |
| 4-1880 | 4-2660 | 0.857 | 292.1 | -23.3 | -1.31 | 1.265 | 47.6 | 0.818 | 2.724 | 97.8 | 180.1 | --- | 4.951 | -0.31 | 0.192 | 89.3 | 148.8 | 1.4 | 0.268 |
| 4-1880 | 4-2680 | 0.848 | 292.7 | -23.3 | -1.30 | 1.266 | 48.2 | 0.814 | 2.730 | 96.7 | 180.8 | --- | 4.954 | -0.30 | 0.194 | 86.4 | 148.3 | 1.4 | 0.267 |
| 4-1880 | 4-2700 | 0.838 | 293.3 | -23.2 | -1.29 | 1.266 | 48.8 | 0.811 | 2.738 | 95.5 | 181.5 | --- | 4.959 | -0.30 | 0.197 | 83.8 | 148.0 | 1.4 | 0.266 |
| 4-1880 | 4-2720 | 0.828 | 293.9 | -23.1 | -1.28 | 1.266 | 49.4 | 0.808 | 2.747 | 94.3 | 182.1 | --- | 4.967 | -0.30 | 0.200 | 81.3 | 147.7 | 1.4 | 0.265 |
| 4-1880 | 4-2740 | 0.818 | 294.6 | -23.1 | -1.27 | 1.267 | 50.0 | 0.805 | 2.758 | 93.1 | 182.7 | --- | 4.977 | -0.30 | 0.203 | 79.0 | 147.6 | 1.4 | 0.264 |
| 4-1880 | 4-2760 | 0.809 | 295.2 | -23.0 | -1.26 | 1.268 | 50.6 | 0.802 | 2.769 | 91.8 | 183.3 | --- | 4.989 | -0.30 | 0.206 | 77.0 | 147.5 | 1.4 | 0.264 |
| 4-1880 | 4-2780 | 0.799 | 295.9 | -22.9 | -1.25 | 1.268 | 51.2 | 0.799 | 2.781 | 90.6 | 183.9 | --- | 5.002 | -0.30 | 0.210 | 75.0 | 147.5 | 1.4 | 0.264 |
| 4-1880 | 4-2800 | 0.789 | 296.6 | -22.8 | -1.24 | 1.269 | 51.7 | 0.796 | 2.794 | 89.4 | 184.5 | --- | 5.017 | -0.30 | 0.213 | 73.3 | 147.5 | 1.4 | 0.264 |
| 4-1880 | 4-2820 | 0.780 | 297.3 | -22.7 | -1.23 | 1.270 | 52.3 | 0.793 | 2.808 | 88.1 | 185.0 | --- | 5.034 | -0.30 | 0.217 | 71.7 | 147.7 | 1.4 | 0.264 |
| 4-1880 | 4-2840 | 0.770 | 298.0 | -22.6 | -1.22 | 1.270 | 52.9 | 0.790 | 2.822 | 86.8 | 185.6 | --- | 5.052 | -0.31 | 0.221 | 70.2 | 147.9 | 1.4 | 0.264 |
| 4-1880 | 4-2860 | 0.760 | 298.7 | -22.5 | -1.21 | 1.271 | 53.5 | 0.787 | 2.837 | 85.5 | 186.1 | --- | 5.071 | -0.31 | 0.224 | 68.8 | 148.2 | 1.4 | 0.265 |
| 4-1880 | 4-2880 | 0.751 | 299.4 | -22.4 | -1.20 | 1.272 | 54.1 | 0.785 | 2.852 | 84.3 | 186.7 | --- | 5.091 | -0.31 | 0.228 | 67.5 | 148.5 | 1.4 | 0.266 |
| 4-1880 | 4-2900 | 0.741 | 300.1 | -22.3 | -1.19 | 1.272 | 54.7 | 0.782 | 2.868 | 83.0 | 187.2 | --- | 5.111 | -0.31 | 0.232 | 66.4 | 148.9 | 1.3 | 0.266 |
| 4-1880 | 4-2920 | 0.731 | 300.9 | -22.1 | -1.18 | 1.273 | 55.3 | 0.780 | 2.884 | 81.7 | 187.7 | --- | 5.133 | -0.32 | 0.235 | 65.3 | 149.4 | 1.3 | 0.267 |
| 4-1880 | 4-2940 | 0.722 | 301.6 | -22.0 | -1.17 | 1.274 | 55.9 | 0.777 | 2.901 | 80.3 | 188.2 | --- | 5.155 | -0.32 | 0.239 | 64.3 | 149.9 | 1.3 | 0.268 |
| 4-1880 | 4-2960 | 0.712 | 302.4 | -21.9 | -1.16 | 1.275 | 56.5 | 0.775 | 2.918 | 79.0 | 188.7 | --- | 5.178 | -0.32 | 0.243 | 63.4 | 150.4 | 1.3 | 0.269 |
| 4-1880 | 4-2980 | 0.703 | 303.2 | -21.8 | -1.15 | 1.276 | 57.1 | 0.772 | 2.935 | 77.7 | 189.2 | --- | 5.202 | -0.33 | 0.246 | 62.5 | 151.0 | 1.2 | 0.269 |
| 4-1880 | 4-3000 | 0.693 | 303.9 | -21.6 | -1.14 | 1.276 | 57.6 | 0.770 | 2.952 | 76.4 | 189.7 | --- | 5.226 | -0.33 | 0.249 | 61.7 | 151.7 | 1.2 | 0.270 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1880 | 4-3020 | 0.684 | 304.7 | -21.5 | -1.13 | 1.277 | 58.2 | 0.768 | 2.970 | 75.0 | 190.1 | --- | 5.251 | -0.33 | 0.253 | 61.0 | 152.4 | 1.1 | 0.271 |
| 4-1880 | 4-3040 | 0.674 | 305.5 | -21.3 | -1.12 | 1.278 | 58.8 | 0.766 | 2.988 | 73.7 | 190.6 | --- | 5.276 | -0.34 | 0.256 | 60.3 | 153.1 | 1.1 | 0.272 |
| 4-1880 | 4-3060 | 0.665 | 306.4 | -21.1 | -1.10 | 1.279 | 59.4 | 0.764 | 3.006 | 72.4 | 191.1 | --- | 5.302 | -0.35 | 0.259 | 59.6 | 153.9 | 1.1 | 0.273 |
| 4-1880 | 4-3080 | 0.655 | 307.2 | -21.0 | -1.09 | 1.279 | 60.0 | 0.762 | 3.024 | 71.0 | 191.5 | --- | 5.327 | -0.35 | 0.262 | 59.0 | 154.7 | 1.0 | 0.274 |
| 4-1880 | 4-3100 | 0.646 | 308.1 | -20.8 | -1.08 | 1.280 | 60.6 | 0.760 | 3.042 | 69.6 | 191.9 | --- | 5.354 | -0.36 | 0.265 | 58.5 | 155.6 | 1.0 | 0.275 |
| 4-1880 | 4-3120 | 0.636 | 308.9 | -20.6 | -1.06 | 1.281 | 61.2 | 0.758 | 3.060 | 68.3 | 192.4 | --- | 5.380 | -0.37 | 0.268 | 58.0 | 156.5 | 0.9 | 0.276 |
| 4-1880 | 4-3140 | 0.627 | 309.8 | -20.4 | -1.05 | 1.282 | 61.8 | 0.756 | 3.079 | 66.9 | 192.8 | --- | 5.407 | -0.37 | 0.271 | 57.5 | 157.4 | 0.9 | 0.277 |
| 4-1880 | 4-3160 | 0.618 | 310.7 | -20.2 | -1.04 | 1.283 | 62.4 | 0.755 | 3.097 | 65.6 | 193.2 | --- | 5.435 | -0.38 | 0.274 | 57.0 | 158.3 | 0.8 | 0.278 |
| 4-1880 | 4-3180 | 0.608 | 311.6 | -20.0 | -1.02 | 1.283 | 63.0 | 0.753 | 3.116 | 64.2 | 193.6 | --- | 5.462 | -0.39 | 0.277 | 56.5 | 159.3 | 0.8 | 0.279 |
| 4-1880 | 4-3200 | 0.599 | 312.5 | -19.7 | -1.00 | 1.284 | 63.5 | 0.751 | 3.135 | 62.8 | 194.0 | --- | 5.490 | -0.40 | 0.279 | 56.1 | 160.3 | 0.7 | 0.280 |
| 4-1880 | 4-3220 | 0.590 | 313.5 | -19.5 | -0.99 | 1.285 | 64.1 | 0.750 | 3.153 | 61.4 | 194.4 | --- | 5.518 | -0.41 | 0.282 | 55.7 | 161.3 | 0.6 | 0.281 |
| 4-1880 | 4-3240 | 0.581 | 314.4 | -19.2 | -0.97 | 1.286 | 64.7 | 0.748 | 3.172 | 60.1 | 194.8 | --- | 5.546 | -0.43 | 0.284 | 55.4 | 162.3 | 0.6 | 0.282 |
| 4-1880 | 4-3260 | 0.571 | 315.4 | -19.0 | -0.95 | 1.286 | 65.3 | 0.747 | 3.191 | 58.7 | 195.2 | --- | 5.574 | -0.44 | 0.287 | 55.0 | 163.4 | 0.5 | 0.282 |
| 4-1880 | 4-3280 | 0.562 | 316.4 | -18.7 | -0.93 | 1.287 | 65.9 | 0.746 | 3.210 | 57.3 | 195.5 | --- | 5.603 | -0.45 | 0.289 | 54.7 | 164.5 | 0.4 | 0.283 |
| 4-1880 | 4-3300 | 0.553 | 317.4 | -18.4 | -0.91 | 1.288 | 66.5 | 0.744 | 3.229 | 55.9 | 195.9 | --- | 5.632 | -0.47 | 0.292 | 54.3 | 165.5 | 0.4 | 0.284 |
| 4-1880 | 4-3320 | 0.544 | 318.4 | -18.1 | -0.89 | 1.288 | 67.1 | 0.743 | 3.248 | 54.5 | 196.3 | --- | 5.661 | -0.49 | 0.294 | 54.0 | 166.7 | 0.3 | 0.285 |
| 4-1880 | 4-3340 | 0.536 | 319.5 | -17.8 | -0.86 | 1.289 | 67.7 | 0.742 | 3.267 | 53.1 | 196.6 | --- | 5.690 | -0.51 | 0.296 | 53.7 | 167.8 | 0.2 | 0.286 |
| 4-1880 | 4-3360 | 0.527 | 320.5 | -17.4 | -0.83 | 1.290 | 68.3 | 0.741 | 3.285 | 51.7 | 197.0 | --- | 5.719 | -0.53 | 0.298 | 53.4 | 168.9 | 0.1 | 0.287 |
| 4-1880 | 4-3380 | 0.518 | 321.6 | -17.0 | -0.80 | 1.290 | 68.9 | 0.740 | 3.304 | 50.3 | 197.3 | --- | 5.748 | -0.56 | 0.300 | 53.2 | 170.1 | 0.1 | 0.288 |
| 4-1880 | 4-3400 | 0.509 | 322.7 | -16.7 | -0.77 | 1.291 | 69.4 | 0.739 | 3.323 | 48.9 | 197.6 | --- | 5.778 | -0.58 | 0.302 | 52.9 | 171.3 | -0.0 | 0.288 |
| 4-1880 | 4-3420 | 0.501 | 323.8 | -16.2 | -0.74 | 1.292 | 70.0 | 0.738 | 3.342 | 47.5 | 198.0 | --- | 5.808 | -0.61 | 0.304 | 52.6 | 172.5 | -0.1 | 0.289 |
| 4-1880 | 4-3440 | 0.492 | 325.0 | -15.8 | -0.70 | 1.292 | 70.6 | 0.737 | 3.361 | 46.1 | 198.3 | --- | 5.837 | -0.65 | 0.306 | 52.4 | 173.7 | -0.2 | 0.290 |
| 4-1880 | 4-3460 | 0.484 | 326.1 | -15.3 | -0.65 | 1.293 | 71.2 | 0.736 | 3.379 | 44.7 | 198.6 | --- | 5.867 | -0.69 | 0.308 | 52.2 | 174.9 | -0.3 | 0.291 |
| 4-1880 | 4-3480 | 0.476 | 327.3 | -14.8 | -0.60 | 1.294 | 71.8 | 0.735 | 3.398 | 43.3 | 198.9 | --- | 5.897 | -0.73 | 0.309 | 51.9 | 176.1 | -0.4 | 0.292 |
| 4-1890 | 4-2210 | 1.274 | 288.0 | -23.4 | -2.02 | 1.366 | 27.2 | 0.979 | 9.604 | 128.2 | 160.0 | --- | --- | -0.97 | 0.544 | 166.5 | 167.2 | 0.5 | 0.634 |
| 4-1890 | 4-2230 | 1.247 | 288.1 | -23.4 | -1.97 | 1.347 | 28.0 | 0.967 | 6.411 | 128.0 | 161.6 | --- | --- | -0.92 | 0.494 | 165.0 | 166.4 | 0.5 | 0.589 |
| 4-1890 | 4-2250 | 1.223 | 288.2 | -23.4 | -1.92 | 1.331 | 28.7 | 0.957 | 5.053 | 127.6 | 163.0 | --- | --- | -0.88 | 0.450 | 163.2 | 165.7 | 0.6 | 0.550 |
| 4-1890 | 4-2270 | 1.201 | 288.3 | -23.4 | -1.87 | 1.318 | 29.5 | 0.948 | 4.310 | 127.1 | 164.3 | --- | --- | -0.84 | 0.411 | 161.2 | 164.8 | 0.6 | 0.516 |
| 4-1890 | 4-2290 | 1.182 | 288.6 | -23.4 | -1.83 | 1.307 | 30.2 | 0.940 | 3.848 | 126.5 | 165.6 | --- | --- | -0.81 | 0.376 | 159.1 | 163.9 | 0.6 | 0.485 |
| 4-1890 | 4-2310 | 1.164 | 288.8 | -23.4 | -1.79 | 1.299 | 31.0 | 0.933 | 3.537 | 125.9 | 166.7 | --- | --- | -0.78 | 0.345 | 156.7 | 163.0 | 0.7 | 0.458 |
| 4-1890 | 4-2330 | 1.147 | 289.1 | -23.3 | -1.76 | 1.291 | 31.7 | 0.926 | 3.318 | 125.1 | 167.8 | --- | --- | -0.75 | 0.317 | 154.1 | 162.0 | 0.7 | 0.435 |
| 4-1890 | 4-2350 | 1.131 | 289.5 | -23.3 | -1.72 | 1.286 | 32.4 | 0.919 | 3.156 | 124.3 | 168.8 | --- | --- | -0.73 | 0.292 | 151.2 | 160.9 | 0.8 | 0.414 |
| 4-1890 | 4-2370 | 1.116 | 289.8 | -23.3 | -1.69 | 1.281 | 33.1 | 0.913 | 3.035 | 123.5 | 169.7 | --- | --- | -0.70 | 0.270 | 148.1 | 159.9 | 0.8 | 0.395 |
| 4-1890 | 4-2390 | 1.102 | 290.2 | -23.2 | -1.66 | 1.277 | 33.8 | 0.908 | 2.943 | 122.6 | 170.7 | --- | --- | -0.68 | 0.251 | 144.6 | 158.8 | 0.8 | 0.379 |
| 4-1890 | 4-2410 | 1.089 | 290.7 | -23.2 | -1.63 | 1.273 | 34.4 | 0.902 | 2.872 | 121.7 | 171.5 | --- | --- | -0.67 | 0.234 | 140.9 | 157.7 | 0.9 | 0.364 |
| 4-1890 | 4-2430 | 1.076 | 291.1 | -23.1 | -1.60 | 1.271 | 35.1 | 0.897 | 2.817 | 120.7 | 172.4 | --- | --- | -0.65 | 0.219 | 136.9 | 156.7 | 0.9 | 0.352 |
| 4-1890 | 4-2450 | 1.063 | 291.6 | -23.1 | -1.58 | 1.268 | 35.8 | 0.892 | 2.774 | 119.7 | 173.2 | --- | --- | -0.63 | 0.207 | 132.7 | 155.6 | 1.0 | 0.340 |
| 4-1890 | 4-2470 | 1.051 | 292.1 | -23.0 | -1.55 | 1.267 | 36.4 | 0.887 | 2.741 | 118.6 | 174.0 | --- | --- | -0.62 | 0.196 | 128.2 | 154.6 | 1.0 | 0.331 |
| 4-1890 | 4-2490 | 1.039 | 292.6 | -23.0 | -1.53 | 1.265 | 37.1 | 0.882 | 2.716 | 117.6 | 174.8 | --- | --- | -0.61 | 0.188 | 123.6 | 153.6 | 1.1 | 0.322 |
| 4-1890 | 4-2510 | 1.028 | 293.1 | -22.9 | -1.51 | 1.264 | 37.8 | 0.878 | 2.698 | 116.5 | 175.5 | --- | --- | -0.59 | 0.181 | 119.0 | 152.7 | 1.1 | 0.315 |
| 4-1890 | 4-2530 | 1.016 | 293.6 | -22.8 | -1.49 | 1.264 | 38.4 | 0.874 | 2.684 | 115.3 | 176.2 | --- | --- | -0.58 | 0.177 | 114.3 | 151.8 | 1.1 | 0.308 |
| 4-1890 | 4-2550 | 1.005 | 294.2 | -22.8 | -1.46 | 1.263 | 39.1 | 0.869 | 2.675 | 114.2 | 176.9 | --- | --- | -0.57 | 0.173 | 109.6 | 151.0 | 1.2 | 0.303 |
| 4-1890 | 4-2570 | 0.994 | 294.7 | -22.7 | -1.44 | 1.263 | 39.7 | 0.865 | 2.670 | 113.1 | 177.6 | --- | --- | -0.56 | 0.171 | 105.1 | 150.2 | 1.2 | 0.298 |
| 4-1890 | 4-2590 | 0.983 | 295.3 | -22.6 | -1.43 | 1.263 | 40.4 | 0.861 | 2.668 | 111.9 | 178.2 | --- | --- | -0.56 | 0.171 | 100.8 | 149.5 | 1.2 | 0.294 |
| 4-1890 | 4-2610 | 0.972 | 295.9 | -22.5 | -1.41 | 1.263 | 41.0 | 0.857 | 2.669 | 110.7 | 178.9 | --- | --- | -0.55 | 0.171 | 96.7 | 148.9 | 1.3 | 0.291 |
| 4-1890 | 4-2630 | 0.961 | 296.4 | -22.5 | -1.39 | 1.263 | 41.6 | 0.853 | 2.672 | 109.5 | 179.5 | --- | --- | -0.54 | 0.172 | 92.8 | 148.4 | 1.3 | 0.288 |
| 4-1890 | 4-2650 | 0.950 | 297.0 | -22.4 | -1.37 | 1.263 | 42.3 | 0.850 | 2.677 | 108.3 | 180.1 | --- | 4.951 | -0.54 | 0.174 | 89.2 | 147.9 | 1.3 | 0.286 |
| 4-1890 | 4-2670 | 0.940 | 297.6 | -22.3 | -1.35 | 1.264 | 42.9 | 0.846 | 2.684 | 107.1 | 180.7 | --- | 4.953 | -0.53 | 0.177 | 86.0 | 147.6 | 1.3 | 0.284 |
| 4-1890 | 4-2690 | 0.929 | 298.2 | -22.2 | -1.33 | 1.264 | 43.6 | 0.842 | 2.692 | 105.8 | 181.3 | --- | 4.959 | -0.53 | 0.180 | 82.9 | 147.3 | 1.3 | 0.282 |
| 4-1890 | 4-2710 | 0.919 | 298.8 | -22.1 | -1.32 | 1.265 | 44.2 | 0.839 | 2.701 | 104.6 | 181.9 | --- | 4.967 | -0.52 | 0.183 | 80.2 | 147.1 | 1.3 | 0.281 |
| 4-1890 | 4-2730 | 0.908 | 299.5 | -22.0 | -1.30 | 1.265 | 44.8 | 0.835 | 2.712 | 103.3 | 182.5 | --- | 4.977 | -0.52 | 0.187 | 77.7 | 147.0 | 1.3 | 0.280 |
| 4-1890 | 4-2750 | 0.898 | 300.1 | -21.9 | -1.28 | 1.266 | 45.5 | 0.832 | 2.724 | 102.0 | 183.0 | --- | 4.989 | -0.52 | 0.191 | 75.4 | 146.9 | 1.3 | 0.280 |
| 4-1890 | 4-2770 | 0.887 | 300.7 | -21.8 | -1.27 | 1.266 | 46.1 | 0.828 | 2.736 | 100.8 | 183.6 | --- | 5.003 | -0.51 | 0.195 | 73.3 | 146.9 | 1.3 | 0.279 |
| 4-1890 | 4-2790 | 0.877 | 301.4 | -21.7 | -1.25 | 1.267 | 46.7 | 0.825 | 2.750 | 99.5 | 184.1 | --- | 5.019 | -0.51 | 0.199 | 71.4 | 147.1 | 1.3 | 0.279 |
| 4-1890 | 4-2810 | 0.867 | 302.0 | -21.5 | -1.23 | 1.268 | 47.3 | 0.822 | 2.764 | 98.2 | 184.7 | --- | 5.036 | -0.51 | 0.204 | 69.7 | 147.2 | 1.3 | 0.279 |
| 4-1890 | 4-2830 | 0.857 | 302.7 | -21.4 | -1.22 | 1.269 | 48.0 | 0.819 | 2.779 | 96.9 | 185.2 | --- | 5.054 | -0.51 | 0.208 | 68.1 | 147.5 | 1.3 | 0.279 |
| 4-1890 | 4-2850 | 0.846 | 303.3 | -21.3 | -1.20 | 1.269 | 48.6 | 0.816 | 2.794 | 95.6 | 185.7 | --- | 5.073 | -0.51 | 0.212 | 66.7 | 147.8 | 1.3 | 0.279 |
| 4-1890 | 4-2870 | 0.836 | 304.0 | -21.2 | -1.18 | 1.270 | 49.2 | 0.813 | 2.810 | 94.3 | 186.2 | --- | 5.093 | -0.51 | 0.216 | 65.4 | 148.1 | 1.3 | 0.280 |
| 4-1890 | 4-2890 | 0.826 | 304.7 | -21.0 | -1.17 | 1.271 | 49.9 | 0.810 | 2.826 | 92.9 | 186.7 | --- | 5.114 | -0.51 | 0.221 | 64.2 | 148.5 | 1.2 | 0.280 |
| 4-1890 | 4-2910 | 0.816 | 305.4 | -20.9 | -1.15 | 1.272 | 50.5 | 0.807 | 2.843 | 91.6 | 187.2 | --- | 5.136 | -0.51 | 0.225 | 63.1 | 149.0 | 1.2 | 0.281 |
| 4-1890 | 4-2930 | 0.805 | 306.1 | -20.8 | -1.14 | 1.273 | 51.1 | 0.804 | 2.860 | 90.3 | 187.7 | --- | 5.159 | -0.51 | 0.229 | 62.1 | 149.5 | 1.2 | 0.281 |
| 4-1890 | 4-2950 | 0.795 | 306.8 | -20.6 | -1.12 | 1.273 | 51.7 | 0.801 | 2.877 | 88.9 | 188.2 | --- | 5.182 | -0.52 | 0.233 | 61.2 | 150.1 | 1.2 | 0.282 |
| 4-1890 | 4-2970 | 0.785 | 307.5 | -20.4 | -1.10 | 1.274 | 52.3 | 0.798 | 2.895 | 87.6 | 188.6 | --- | 5.206 | -0.52 | 0.237 | 60.3 | 150.7 | 1.1 | 0.282 |
| 4-1890 | 4-2990 | 0.775 | 308.2 | -20.3 | -1.09 | 1.275 | 53.0 | 0.796 | 2.913 | 86.2 | 189.1 | --- | 5.231 | -0.52 | 0.240 | 59.6 | 151.4 | 1.1 | 0.283 |
| 4-1890 | 4-3010 | 0.765 | 308.9 | -20.1 | -1.07 | 1.276 | 53.6 | 0.793 | 2.931 | 84.9 | 189.6 | --- | 5.256 | -0.53 | 0.244 | 58.8 | 152.1 | 1.0 | 0.284 |
| 4-1890 | 4-3030 | 0.755 | 309.7 | -20.0 | -1.05 | 1.277 | 54.2 | 0.791 | 2.949 | 83.5 | 190.0 | --- | 5.281 | -0.53 | 0.248 | 58.2 | 152.9 | 1.0 | 0.284 |
| 4-1890 | 4-3050 | 0.745 | 310.4 | -19.8 | -1.03 | 1.278 | 54.8 | 0.788 | 2.968 | 82.2 | 190.4 | --- | 5.307 | -0.54 | 0.251 | 57.6 | 153.7 | 1.0 | 0.285 |
| 4-1890 | 4-3070 | 0.735 | 311.2 | -19.6 | -1.02 | 1.278 | 55.4 | 0.786 | 2.987 | 80.8 | 190.9 | --- | 5.333 | -0.54 | 0.255 | 57.0 | 154.5 | 0.9 | 0.286 |
| 4-1890 | 4-3090 | 0.725 | 311.9 | -19.4 | -1.00 | 1.279 | 56.0 | 0.783 | 3.005 | 79.5 | 191.3 | --- | 5.360 | -0.55 | 0.258 | 56.5 | 155.3 | 0.9 | 0.286 |
| 4-1890 | 4-3110 | 0.715 | 312.7 | -19.2 | -0.98 | 1.280 | 56.6 | 0.781 | 3.024 | 78.1 | 191.7 | --- | 5.387 | -0.56 | 0.261 | 56.0 | 156.2 | 0.8 | 0.287 |
| 4-1890 | 4-3130 | 0.705 | 313.5 | -19.0 | -0.96 | 1.281 | 57.3 | 0.779 | 3.043 | 76.7 | 192.1 | --- | 5.414 | -0.56 | 0.265 | 55.5 | 157.1 | 0.8 | 0.288 |
| 4-1890 | 4-3150 | 0.695 | 314.2 | -18.8 | -0.94 | 1.282 | 57.9 | 0.777 | 3.063 | 75.3 | 192.6 | --- | 5.441 | -0.57 | 0.268 | 55.1 | 158.1 | 0.7 | 0.289 |
| 4-1890 | 4-3170 | 0.685 | 315.0 | -18.6 | -0.92 | 1.283 | 58.5 | 0.775 | 3.082 | 74.0 | 193.0 | --- | 5.469 | -0.58 | 0.271 | 54.7 | 159.0 | 0.7 | 0.289 |
| 4-1890 | 4-3190 | 0.675 | 315.8 | -18.3 | -0.90 | 1.283 | 59.1 | 0.773 | 3.101 | 72.6 | 193.4 | --- | 5.497 | -0.59 | 0.274 | 54.3 | 160.0 | 0.6 | 0.290 |
| 4-1890 | 4-3210 | 0.666 | 316.7 | -18.1 | -0.88 | 1.284 | 59.7 | 0.771 | 3.120 | 71.2 | 193.7 | --- | 5.525 | -0.60 | 0.276 | 53.9 | 161.0 | 0.5 | 0.291 |
| 4-1890 | 4-3230 | 0.658 | 317.5 | -17.9 | -0.85 | 1.285 | 60.3 | 0.769 | 3.140 | 69.8 | 194.1 | --- | 5.553 | -0.62 | 0.279 | 53.6 | 162.1 | 0.5 | 0.291 |
| 4-1890 | 4-3250 | 0.646 | 318.3 | -17.6 | -0.83 | 1.286 | 60.9 | 0.767 | 3.159 | 68.4 | 194.5 | --- | 5.581 | -0.63 | 0.282 | 53.3 | 163.1 | 0.4 | 0.292 |
| 4-1890 | 4-3270 | 0.637 | 319.2 | -17.3 | -0.81 | 1.286 | 61.5 | 0.765 | 3.178 | 67.1 | 194.9 | --- | 5.610 | -0.64 | 0.284 | 53.0 | 164.2 | 0.3 | 0.293 |
| 4-1890 | 4-3290 | 0.627 | 320.1 | -17.0 | -0.78 | 1.287 | 62.1 | 0.763 | 3.198 | 65.7 | 195.2 | --- | 5.639 | -0.66 | 0.287 | 52.7 | 165.3 | 0.3 | 0.293 |
| 4-1890 | 4-3310 | 0.617 | 320.9 | -16.8 | -0.75 | 1.288 | 62.7 | 0.762 | 3.217 | 64.3 | 195.6 | --- | 5.667 | -0.68 | 0.289 | 52.4 | 166.4 | 0.2 | 0.294 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1890 | 4-3330 | 0.608 | 321.8 | -16.5 | -0.73 | 1.289 | 63.3 | 0.760 | 3.237 | 62.9 | 196.0 | --- | 5.696 | -0.70 | 0.292 | 52.2 | 167.5 | 0.1 | 0.295 |
| 4-1890 | 4-3350 | 0.599 | 322.7 | -16.1 | -0.70 | 1.289 | 63.9 | 0.758 | 3.256 | 61.5 | 196.3 | --- | 5.726 | -0.72 | 0.294 | 51.9 | 168.7 | 0.0 | 0.295 |
| 4-1890 | 4-3370 | 0.589 | 323.6 | -15.8 | -0.66 | 1.290 | 64.5 | 0.757 | 3.275 | 60.1 | 196.7 | --- | 5.755 | -0.74 | 0.296 | 51.7 | 169.9 | -0.0 | 0.296 |
| 4-1890 | 4-3390 | 0.580 | 324.6 | -15.5 | -0.63 | 1.291 | 65.1 | 0.756 | 3.295 | 58.7 | 197.0 | --- | 5.784 | -0.77 | 0.298 | 51.5 | 171.0 | -0.1 | 0.296 |
| 4-1890 | 4-3410 | 0.571 | 325.5 | -15.1 | -0.60 | 1.291 | 65.7 | 0.754 | 3.314 | 57.3 | 197.3 | --- | 5.814 | -0.79 | 0.300 | 51.3 | 172.2 | -0.2 | 0.297 |
| 4-1890 | 4-3430 | 0.561 | 326.5 | -14.7 | -0.56 | 1.292 | 66.3 | 0.753 | 3.333 | 55.9 | 197.6 | --- | 5.843 | -0.82 | 0.302 | 51.1 | 173.4 | -0.3 | 0.298 |
| 4-1890 | 4-3450 | 0.552 | 327.5 | -14.3 | -0.52 | 1.293 | 66.9 | 0.752 | 3.353 | 54.5 | 198.0 | --- | 5.873 | -0.85 | 0.304 | 50.9 | 174.6 | -0.4 | 0.298 |
| 4-1890 | 4-3470 | 0.543 | 328.4 | -13.9 | -0.47 | 1.293 | 67.5 | 0.750 | 3.372 | 53.1 | 198.3 | --- | 5.903 | -0.89 | 0.306 | 50.7 | 175.8 | -0.5 | 0.299 |
| 4-1890 | 4-3490 | 0.534 | 329.4 | -13.4 | -0.42 | 1.294 | 68.1 | 0.749 | 3.391 | 51.7 | 198.6 | --- | 5.932 | -0.93 | 0.308 | 50.5 | 177.1 | -0.6 | 0.299 |
| 4-1900 | 4-2220 | 1.390 | 292.2 | -22.8 | -2.74 | 1.359 | 19.8 | 0.986 | 8.070 | 142.7 | 165.8 | --- | --- | -1.79 | 0.525 | 169.7 | 165.0 | 0.5 | 0.642 |
| 4-1900 | 4-2240 | 1.361 | 292.4 | -22.8 | -2.61 | 1.341 | 20.8 | 0.979 | 5.739 | 141.8 | 166.7 | --- | --- | -1.66 | 0.476 | 168.3 | 164.2 | 0.6 | 0.598 |
| 4-1900 | 4-2260 | 1.334 | 292.7 | -22.7 | -2.49 | 1.325 | 21.8 | 0.973 | 4.655 | 140.8 | 167.6 | --- | --- | -1.56 | 0.431 | 166.6 | 163.3 | 0.6 | 0.560 |
| 4-1900 | 4-2280 | 1.310 | 293.0 | -22.7 | -2.39 | 1.313 | 22.7 | 0.967 | 4.036 | 139.9 | 168.4 | --- | --- | -1.47 | 0.392 | 164.7 | 162.4 | 0.6 | 0.526 |
| 4-1900 | 4-2300 | 1.289 | 293.4 | -22.7 | -2.30 | 1.303 | 23.6 | 0.961 | 3.642 | 138.9 | 169.2 | --- | --- | -1.39 | 0.356 | 162.6 | 161.5 | 0.7 | 0.496 |
| 4-1900 | 4-2320 | 1.269 | 293.8 | -22.6 | -2.22 | 1.294 | 24.5 | 0.955 | 3.374 | 137.8 | 170.0 | --- | --- | -1.32 | 0.324 | 160.3 | 160.5 | 0.7 | 0.470 |
| 4-1900 | 4-2340 | 1.250 | 294.2 | -22.5 | -2.14 | 1.287 | 25.4 | 0.950 | 3.182 | 136.7 | 170.7 | --- | --- | -1.26 | 0.296 | 157.7 | 159.5 | 0.8 | 0.447 |
| 4-1900 | 4-2360 | 1.233 | 294.6 | -22.5 | -2.07 | 1.282 | 26.2 | 0.944 | 3.040 | 135.7 | 171.4 | --- | --- | -1.20 | 0.271 | 154.8 | 158.5 | 0.8 | 0.427 |
| 4-1900 | 4-2380 | 1.216 | 295.1 | -22.4 | -2.01 | 1.277 | 27.0 | 0.939 | 2.934 | 134.5 | 172.1 | --- | --- | -1.15 | 0.248 | 151.5 | 157.5 | 0.8 | 0.409 |
| 4-1900 | 4-2400 | 1.201 | 295.6 | -22.3 | -1.95 | 1.273 | 27.8 | 0.934 | 2.853 | 133.4 | 172.8 | --- | --- | -1.11 | 0.228 | 147.9 | 156.4 | 0.9 | 0.393 |
| 4-1900 | 4-2420 | 1.186 | 296.1 | -22.3 | -1.90 | 1.270 | 28.6 | 0.929 | 2.791 | 132.3 | 173.5 | --- | --- | -1.06 | 0.211 | 143.9 | 155.4 | 0.9 | 0.379 |
| 4-1900 | 4-2440 | 1.171 | 296.6 | -22.2 | -1.85 | 1.268 | 29.4 | 0.925 | 2.743 | 131.1 | 174.2 | --- | --- | -1.03 | 0.196 | 139.6 | 154.4 | 1.0 | 0.367 |
| 4-1900 | 4-2460 | 1.157 | 297.1 | -22.1 | -1.81 | 1.266 | 30.1 | 0.920 | 2.706 | 129.9 | 174.8 | --- | --- | -0.99 | 0.183 | 134.9 | 153.4 | 1.0 | 0.356 |
| 4-1900 | 4-2480 | 1.144 | 297.6 | -22.0 | -1.76 | 1.264 | 30.9 | 0.915 | 2.678 | 128.7 | 175.4 | --- | --- | -0.96 | 0.173 | 129.9 | 152.5 | 1.0 | 0.347 |
| 4-1900 | 4-2500 | 1.131 | 298.2 | -21.9 | -1.72 | 1.263 | 31.7 | 0.911 | 2.657 | 127.5 | 176.0 | --- | --- | -0.94 | 0.165 | 124.6 | 151.6 | 1.1 | 0.339 |
| 4-1900 | 4-2520 | 1.118 | 298.7 | -21.9 | -1.68 | 1.262 | 32.4 | 0.907 | 2.642 | 126.3 | 176.6 | --- | --- | -0.91 | 0.159 | 119.2 | 150.8 | 1.1 | 0.332 |
| 4-1900 | 4-2540 | 1.106 | 299.3 | -21.8 | -1.64 | 1.262 | 33.1 | 0.902 | 2.632 | 125.0 | 177.2 | --- | --- | -0.89 | 0.154 | 113.8 | 150.0 | 1.1 | 0.325 |
| 4-1900 | 4-2560 | 1.094 | 299.9 | -21.7 | -1.61 | 1.261 | 33.8 | 0.898 | 2.626 | 123.8 | 177.8 | --- | --- | -0.87 | 0.152 | 108.4 | 149.3 | 1.2 | 0.320 |
| 4-1900 | 4-2580 | 1.081 | 300.4 | -21.6 | -1.58 | 1.261 | 34.6 | 0.894 | 2.623 | 122.5 | 178.4 | --- | --- | -0.85 | 0.151 | 103.3 | 148.7 | 1.2 | 0.316 |
| 4-1900 | 4-2600 | 1.070 | 301.0 | -21.5 | -1.54 | 1.261 | 35.3 | 0.890 | 2.623 | 121.3 | 179.0 | --- | --- | -0.83 | 0.151 | 98.3 | 148.2 | 1.2 | 0.312 |
| 4-1900 | 4-2620 | 1.058 | 301.6 | -21.4 | -1.51 | 1.261 | 36.0 | 0.886 | 2.626 | 120.0 | 179.5 | --- | --- | -0.81 | 0.152 | 93.7 | 147.7 | 1.2 | 0.309 |
| 4-1900 | 4-2640 | 1.046 | 302.2 | -21.2 | -1.48 | 1.262 | 36.7 | 0.882 | 2.631 | 118.7 | 180.1 | --- | 4.951 | -0.80 | 0.154 | 89.5 | 147.3 | 1.3 | 0.306 |
| 4-1900 | 4-2660 | 1.035 | 302.8 | -21.1 | -1.46 | 1.262 | 37.4 | 0.878 | 2.637 | 117.4 | 180.6 | --- | 4.953 | -0.79 | 0.157 | 85.6 | 147.0 | 1.3 | 0.303 |
| 4-1900 | 4-2680 | 1.023 | 303.4 | -21.0 | -1.43 | 1.262 | 38.1 | 0.874 | 2.646 | 116.1 | 181.1 | --- | 4.958 | -0.77 | 0.161 | 82.1 | 146.7 | 1.3 | 0.302 |
| 4-1900 | 4-2700 | 1.012 | 304.0 | -20.9 | -1.40 | 1.263 | 38.8 | 0.870 | 2.655 | 114.8 | 181.7 | --- | 4.966 | -0.76 | 0.165 | 78.9 | 146.6 | 1.3 | 0.300 |
| 4-1900 | 4-2720 | 1.001 | 304.6 | -20.8 | -1.37 | 1.264 | 39.5 | 0.867 | 2.666 | 113.5 | 182.2 | --- | 4.976 | -0.75 | 0.169 | 76.1 | 146.5 | 1.3 | 0.299 |
| 4-1900 | 4-2740 | 0.990 | 305.2 | -20.7 | -1.35 | 1.264 | 40.2 | 0.863 | 2.678 | 112.2 | 182.7 | --- | 4.989 | -0.74 | 0.174 | 73.5 | 146.5 | 1.3 | 0.298 |
| 4-1900 | 4-2760 | 0.979 | 305.8 | -20.5 | -1.32 | 1.265 | 40.8 | 0.859 | 2.691 | 110.9 | 183.2 | --- | 5.003 | -0.74 | 0.179 | 71.2 | 146.6 | 1.3 | 0.297 |
| 4-1900 | 4-2780 | 0.968 | 306.4 | -20.4 | -1.30 | 1.266 | 41.5 | 0.856 | 2.705 | 109.5 | 183.7 | --- | 5.019 | -0.73 | 0.184 | 69.2 | 146.7 | 1.3 | 0.296 |
| 4-1900 | 4-2800 | 0.957 | 307.1 | -20.3 | -1.28 | 1.266 | 42.2 | 0.852 | 2.719 | 108.2 | 184.2 | --- | 5.036 | -0.72 | 0.189 | 67.3 | 146.9 | 1.3 | 0.296 |
| 4-1900 | 4-2820 | 0.946 | 307.7 | -20.1 | -1.25 | 1.267 | 42.9 | 0.849 | 2.734 | 106.9 | 184.7 | --- | 5.055 | -0.72 | 0.193 | 65.6 | 147.2 | 1.2 | 0.296 |
| 4-1900 | 4-2840 | 0.935 | 308.3 | -20.0 | -1.23 | 1.268 | 43.5 | 0.845 | 2.750 | 105.5 | 185.2 | --- | 5.074 | -0.71 | 0.198 | 64.1 | 147.5 | 1.2 | 0.296 |
| 4-1900 | 4-2860 | 0.924 | 309.0 | -19.8 | -1.21 | 1.269 | 44.2 | 0.842 | 2.766 | 104.2 | 185.7 | --- | 5.095 | -0.71 | 0.203 | 62.8 | 147.9 | 1.2 | 0.296 |
| 4-1900 | 4-2880 | 0.913 | 309.6 | -19.7 | -1.18 | 1.270 | 44.9 | 0.839 | 2.783 | 102.8 | 186.2 | --- | 5.117 | -0.71 | 0.208 | 61.6 | 148.3 | 1.2 | 0.296 |
| 4-1900 | 4-2900 | 0.902 | 310.3 | -19.5 | -1.16 | 1.271 | 45.5 | 0.835 | 2.800 | 101.5 | 186.6 | --- | 5.139 | -0.70 | 0.213 | 60.5 | 148.8 | 1.1 | 0.296 |
| 4-1900 | 4-2920 | 0.892 | 310.9 | -19.4 | -1.14 | 1.272 | 46.2 | 0.832 | 2.817 | 100.1 | 187.1 | --- | 5.162 | -0.70 | 0.217 | 59.5 | 149.3 | 1.1 | 0.296 |
| 4-1900 | 4-2940 | 0.881 | 311.6 | -19.2 | -1.12 | 1.272 | 46.8 | 0.829 | 2.835 | 98.8 | 187.5 | --- | 5.186 | -0.70 | 0.222 | 58.6 | 149.9 | 1.1 | 0.296 |
| 4-1900 | 4-2960 | 0.870 | 312.2 | -19.0 | -1.09 | 1.273 | 47.5 | 0.826 | 2.853 | 97.4 | 188.0 | --- | 5.210 | -0.70 | 0.226 | 57.7 | 150.6 | 1.1 | 0.297 |
| 4-1900 | 4-2980 | 0.860 | 312.9 | -18.9 | -1.07 | 1.274 | 48.1 | 0.823 | 2.872 | 96.0 | 188.4 | --- | 5.235 | -0.70 | 0.230 | 57.0 | 151.2 | 1.0 | 0.297 |
| 4-1900 | 4-3000 | 0.849 | 313.6 | -18.7 | -1.05 | 1.275 | 48.8 | 0.820 | 2.890 | 94.7 | 188.9 | --- | 5.260 | -0.70 | 0.234 | 56.3 | 152.0 | 1.0 | 0.298 |
| 4-1900 | 4-3020 | 0.839 | 314.2 | -18.5 | -1.03 | 1.276 | 49.4 | 0.817 | 2.909 | 93.3 | 189.3 | --- | 5.286 | -0.71 | 0.238 | 55.7 | 152.7 | 0.9 | 0.298 |
| 4-1900 | 4-3040 | 0.828 | 314.9 | -18.3 | -1.00 | 1.277 | 50.1 | 0.814 | 2.928 | 91.9 | 189.7 | --- | 5.312 | -0.71 | 0.242 | 55.1 | 153.5 | 0.9 | 0.298 |
| 4-1900 | 4-3060 | 0.818 | 315.6 | -18.1 | -0.98 | 1.278 | 50.7 | 0.812 | 2.947 | 90.6 | 190.2 | --- | 5.339 | -0.71 | 0.246 | 54.6 | 154.3 | 0.9 | 0.299 |
| 4-1900 | 4-3080 | 0.807 | 316.3 | -17.9 | -0.96 | 1.279 | 51.4 | 0.809 | 2.967 | 89.2 | 190.6 | --- | 5.366 | -0.72 | 0.250 | 54.1 | 155.2 | 0.8 | 0.299 |
| 4-1900 | 4-3100 | 0.797 | 317.0 | -17.7 | -0.94 | 1.279 | 52.0 | 0.806 | 2.986 | 87.8 | 191.0 | --- | 5.393 | -0.72 | 0.254 | 53.6 | 156.1 | 0.8 | 0.300 |
| 4-1900 | 4-3120 | 0.786 | 317.7 | -17.5 | -0.91 | 1.280 | 52.6 | 0.804 | 3.006 | 86.4 | 191.4 | --- | 5.420 | -0.73 | 0.257 | 53.2 | 157.0 | 0.7 | 0.300 |
| 4-1900 | 4-3140 | 0.776 | 318.4 | -17.3 | -0.89 | 1.281 | 53.3 | 0.801 | 3.025 | 85.0 | 191.8 | --- | 5.448 | -0.73 | 0.260 | 52.8 | 157.9 | 0.6 | 0.301 |
| 4-1900 | 4-3160 | 0.766 | 319.1 | -17.1 | -0.87 | 1.282 | 53.9 | 0.798 | 3.045 | 83.7 | 192.2 | --- | 5.476 | -0.74 | 0.264 | 52.4 | 158.9 | 0.6 | 0.301 |
| 4-1900 | 4-3180 | 0.755 | 319.9 | -16.8 | -0.84 | 1.283 | 54.5 | 0.796 | 3.065 | 82.3 | 192.6 | --- | 5.504 | -0.75 | 0.267 | 52.1 | 159.9 | 0.5 | 0.302 |
| 4-1900 | 4-3200 | 0.745 | 320.6 | -16.6 | -0.82 | 1.284 | 55.2 | 0.794 | 3.084 | 80.9 | 193.0 | --- | 5.532 | -0.76 | 0.270 | 51.8 | 160.9 | 0.5 | 0.302 |
| 4-1900 | 4-3220 | 0.735 | 321.3 | -16.4 | -0.79 | 1.284 | 55.8 | 0.791 | 3.104 | 79.5 | 193.4 | --- | 5.561 | -0.77 | 0.273 | 51.5 | 161.9 | 0.4 | 0.303 |
| 4-1900 | 4-3240 | 0.725 | 322.1 | -16.1 | -0.76 | 1.285 | 56.4 | 0.789 | 3.124 | 78.1 | 193.7 | --- | 5.589 | -0.78 | 0.276 | 51.2 | 163.0 | 0.3 | 0.303 |
| 4-1900 | 4-3260 | 0.715 | 322.8 | -15.9 | -0.74 | 1.286 | 57.0 | 0.787 | 3.144 | 76.7 | 194.1 | --- | 5.618 | -0.79 | 0.279 | 51.0 | 164.1 | 0.3 | 0.304 |
| 4-1900 | 4-3280 | 0.704 | 323.6 | -15.6 | -0.71 | 1.287 | 57.6 | 0.785 | 3.164 | 75.3 | 194.5 | --- | 5.647 | -0.80 | 0.281 | 50.8 | 165.2 | 0.2 | 0.304 |
| 4-1900 | 4-3300 | 0.694 | 324.4 | -15.3 | -0.68 | 1.288 | 58.3 | 0.783 | 3.184 | 74.0 | 194.8 | --- | 5.676 | -0.82 | 0.284 | 50.5 | 166.3 | 0.1 | 0.304 |
| 4-1900 | 4-3320 | 0.684 | 325.2 | -15.0 | -0.65 | 1.288 | 58.9 | 0.781 | 3.204 | 72.6 | 195.2 | --- | 5.705 | -0.83 | 0.287 | 50.3 | 167.4 | 0.1 | 0.305 |
| 4-1900 | 4-3340 | 0.674 | 325.9 | -14.7 | -0.62 | 1.289 | 59.5 | 0.779 | 3.224 | 71.2 | 195.5 | --- | 5.734 | -0.85 | 0.289 | 50.1 | 168.5 | -0.0 | 0.305 |
| 4-1900 | 4-3360 | 0.664 | 326.7 | -14.4 | -0.59 | 1.290 | 60.1 | 0.777 | 3.244 | 69.8 | 195.9 | --- | 5.763 | -0.87 | 0.291 | 49.9 | 169.7 | -0.1 | 0.306 |
| 4-1900 | 4-3380 | 0.655 | 327.5 | -14.1 | -0.56 | 1.290 | 60.7 | 0.775 | 3.264 | 68.4 | 196.2 | --- | 5.793 | -0.89 | 0.294 | 49.8 | 170.8 | -0.2 | 0.306 |
| 4-1900 | 4-3400 | 0.645 | 328.4 | -13.8 | -0.52 | 1.291 | 61.3 | 0.773 | 3.283 | 67.0 | 196.6 | --- | 5.822 | -0.91 | 0.296 | 49.6 | 172.0 | -0.2 | 0.306 |
| 4-1900 | 4-3420 | 0.635 | 329.2 | -13.4 | -0.48 | 1.292 | 62.0 | 0.771 | 3.303 | 65.6 | 196.9 | --- | 5.852 | -0.93 | 0.298 | 49.4 | 173.2 | -0.3 | 0.307 |
| 4-1900 | 4-3440 | 0.625 | 330.0 | -13.1 | -0.45 | 1.293 | 62.6 | 0.770 | 3.323 | 64.2 | 197.2 | --- | 5.881 | -0.96 | 0.300 | 49.3 | 174.4 | -0.4 | 0.307 |
| 4-1900 | 4-3460 | 0.616 | 330.9 | -12.7 | -0.41 | 1.293 | 63.2 | 0.768 | 3.343 | 62.8 | 197.6 | --- | 5.911 | -0.99 | 0.302 | 49.1 | 175.6 | -0.5 | 0.307 |
| 4-1900 | 4-3480 | 0.606 | 331.7 | -12.3 | -0.36 | 1.294 | 63.8 | 0.767 | 3.363 | 61.4 | 197.9 | --- | 5.940 | -1.02 | 0.304 | 49.0 | 176.9 | -0.6 | 0.308 |
| 4-1900 | 4-3500 | 0.597 | 332.6 | -11.9 | -0.32 | 1.295 | 64.4 | 0.765 | 3.382 | 60.0 | 198.2 | --- | 5.970 | -1.05 | 0.306 | 48.8 | 178.1 | -0.7 | 0.308 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2100 | 4-2500 | 0.840 | 323.3 | -10.7 | 2.66 | 1.415 | 125.1 | 0.98647 | 7.123 | 289.2 | 498.3 | 0.660 | --- | -2.12 | 0.618 | 158.1 | 203.1 | -2.0 | 0.622 |
| 4-2100 | 4-2520 | 0.810 | 323.0 | -10.8 | 2.53 | 1.396 | 124.1 | 0.95 | 113.796 | 289.8 | 500.7 | 0.670 | --- | -2.01 | 0.575 | 156.3 | 203.1 | -2.0 | 0.578 |
| 4-2100 | 4-2540 | 0.783 | 322.8 | -11.0 | 2.41 | 1.381 | 123.2 | 0.921 | 8.654 | 290.4 | 503.0 | 0.680 | --- | -1.91 | 0.537 | 154.5 | 203.1 | -2.0 | 0.539 |
| 4-2100 | 4-2560 | 0.760 | 322.5 | -11.1 | 2.30 | 1.368 | 122.4 | 0.895 | 6.583 | 290.9 | 505.4 | 0.688 | --- | -1.82 | 0.502 | 152.6 | 203.0 | -2.0 | 0.504 |
| 4-2100 | 4-2580 | 0.741 | 322.3 | -11.2 | 2.20 | 1.356 | 121.7 | 0.873 | 5.472 | 291.3 | 507.6 | 0.695 | --- | -1.74 | 0.470 | 150.7 | 202.8 | -2.0 | 0.472 |
| 4-2100 | 4-2600 | 0.724 | 322.2 | -11.3 | 2.11 | 1.347 | 121.1 | 0.853 | 4.786 | 291.6 | 509.8 | 0.701 | --- | -1.67 | 0.442 | 148.6 | 202.5 | -2.0 | 0.443 |
| 4-2100 | 4-2620 | 0.709 | 322.0 | -11.5 | 2.03 | 1.338 | 120.6 | 0.837 | 4.323 | 291.9 | 511.9 | 0.707 | --- | -1.60 | 0.416 | 146.4 | 202.0 | -2.0 | 0.416 |
| 4-2100 | 4-2640 | 0.697 | 322.0 | -11.6 | 1.95 | 1.331 | 120.2 | 0.822 | 3.993 | 292.1 | 513.9 | 0.711 | --- | -1.54 | 0.392 | 144.1 | 201.5 | -2.0 | 0.392 |
| 4-2100 | 4-2660 | 0.687 | 321.9 | -11.7 | 1.88 | 1.325 | 119.8 | 0.809 | 3.749 | 292.3 | 515.9 | 0.714 | --- | -1.49 | 0.370 | 141.7 | 200.8 | -2.0 | 0.370 |
| 4-2100 | 4-2680 | 0.678 | 321.9 | -11.7 | 1.81 | 1.320 | 119.5 | 0.799 | 3.561 | 292.3 | 517.8 | 0.717 | --- | -1.44 | 0.351 | 139.2 | 200.0 | -2.0 | 0.351 |
| 4-2100 | 4-2700 | 0.672 | 322.0 | -11.8 | 1.75 | 1.315 | 119.3 | 0.790 | 3.415 | 292.3 | 519.7 | 0.718 | --- | -1.40 | 0.333 | 136.6 | 199.0 | -2.0 | 0.333 |
| 4-2100 | 4-2720 | 0.666 | 322.0 | -11.9 | 1.69 | 1.311 | 119.2 | 0.782 | 3.299 | 292.3 | 521.4 | 0.720 | --- | -1.36 | 0.317 | 133.9 | 198.0 | -1.9 | 0.318 |
| 4-2100 | 4-2740 | 0.662 | 322.1 | -11.9 | 1.64 | 1.308 | 119.1 | 0.775 | 3.206 | 292.1 | 523.1 | 0.720 | --- | -1.33 | 0.303 | 131.1 | 196.8 | -1.9 | 0.303 |
| 4-2100 | 4-2760 | 0.660 | 322.3 | -12.0 | 1.58 | 1.305 | 119.0 | 0.770 | 3.130 | 291.9 | 524.7 | 0.719 | --- | -1.29 | 0.290 | 128.3 | 195.6 | -1.8 | 0.291 |
| 4-2100 | 4-2780 | 0.658 | 322.5 | -12.0 | 1.53 | 1.302 | 119.0 | 0.766 | 3.068 | 291.7 | 526.3 | 0.718 | --- | -1.26 | 0.279 | 125.3 | 194.2 | -1.8 | 0.280 |
| 4-2100 | 4-2800 | 0.657 | 322.7 | -12.0 | 1.48 | 1.300 | 119.1 | 0.762 | 3.017 | 291.3 | 527.8 | 0.717 | --- | -1.24 | 0.268 | 122.3 | 192.8 | -1.7 | 0.271 |
| 4-2100 | 4-2820 | 0.658 | 323.0 | -12.0 | 1.44 | 1.299 | 119.2 | 0.760 | 2.976 | 290.9 | 529.2 | 0.715 | --- | -1.21 | 0.259 | 119.3 | 191.3 | -1.6 | 0.263 |
| 4-2100 | 4-2840 | 0.659 | 323.2 | -12.0 | 1.39 | 1.297 | 119.3 | 0.758 | 2.942 | 290.5 | 530.6 | 0.712 | --- | -1.19 | 0.251 | 116.2 | 189.7 | -1.6 | 0.256 |
| 4-2100 | 4-2860 | 0.661 | 323.6 | -12.0 | 1.35 | 1.296 | 119.5 | 0.757 | 2.914 | 290.0 | 531.9 | 0.708 | --- | -1.17 | 0.244 | 113.0 | 188.2 | -1.5 | 0.250 |
| 4-2100 | 4-2880 | 0.664 | 323.9 | -12.0 | 1.31 | 1.295 | 119.7 | 0.756 | 2.891 | 289.4 | 533.2 | 0.705 | --- | -1.15 | 0.238 | 109.9 | 186.7 | -1.4 | 0.246 |
| 4-2100 | 4-2900 | 0.668 | 324.3 | -12.0 | 1.27 | 1.294 | 119.9 | 0.756 | 2.873 | 288.8 | 534.4 | 0.700 | --- | -1.13 | 0.233 | 106.7 | 185.2 | -1.3 | 0.242 |
| 4-2100 | 4-2920 | 0.673 | 324.7 | -11.9 | 1.23 | 1.293 | 120.2 | 0.757 | 2.858 | 288.1 | 535.5 | 0.695 | --- | -1.12 | 0.229 | 103.6 | 183.8 | -1.2 | 0.240 |
| 4-2100 | 4-2940 | 0.678 | 325.1 | -11.9 | 1.19 | 1.293 | 120.5 | 0.758 | 2.847 | 287.4 | 536.6 | 0.690 | --- | -1.10 | 0.225 | 100.5 | 182.4 | -1.2 | 0.239 |
| 4-2100 | 4-2960 | 0.683 | 325.6 | -11.8 | 1.16 | 1.292 | 120.9 | 0.759 | 2.839 | 286.6 | 537.6 | 0.684 | --- | -1.09 | 0.222 | 97.5 | 181.2 | -1.1 | 0.238 |
| 4-2100 | 4-2980 | 0.690 | 326.0 | -11.7 | 1.12 | 1.292 | 121.3 | 0.761 | 2.833 | 285.8 | 538.6 | 0.678 | --- | -1.08 | 0.220 | 94.5 | 180.0 | -1.0 | 0.238 |
| 4-2100 | 4-3000 | 0.697 | 326.5 | -11.6 | 1.09 | 1.292 | 121.7 | 0.763 | 2.830 | 284.9 | 539.5 | 0.671 | --- | -1.07 | 0.218 | 91.5 | 179.0 | -0.9 | 0.239 |
| 4-2100 | 4-3020 | 0.704 | 327.1 | -11.5 | 1.05 | 1.292 | 122.1 | 0.765 | 2.828 | 284.0 | 540.4 | 0.664 | 4.993 | -1.06 | 0.217 | 88.7 | 178.0 | -0.9 | 0.240 |
| 4-2100 | 4-3040 | 0.712 | 327.6 | -11.4 | 1.02 | 1.292 | 122.5 | 0.768 | 2.828 | 283.0 | 541.2 | 0.656 | 5.000 | -1.05 | 0.216 | 85.9 | 177.3 | -0.8 | 0.242 |
| 4-2100 | 4-3060 | 0.721 | 328.1 | -11.3 | 0.98 | 1.292 | 123.0 | 0.771 | 2.830 | 282.0 | 542.0 | 0.648 | 5.012 | -1.05 | 0.216 | 83.2 | 176.6 | -0.7 | 0.245 |
| 4-2100 | 4-3080 | 0.730 | 328.7 | -11.2 | 0.95 | 1.292 | 123.5 | 0.774 | 2.833 | 280.9 | 542.8 | 0.639 | 5.026 | -1.04 | 0.216 | 80.6 | 176.1 | -0.7 | 0.247 |
| 4-2100 | 4-3100 | 0.739 | 329.3 | -11.1 | 0.92 | 1.292 | 124.1 | 0.778 | 2.837 | 279.9 | 543.5 | 0.631 | 5.043 | -1.04 | 0.216 | 78.0 | 175.7 | -0.6 | 0.251 |
| 4-2100 | 4-3120 | 0.749 | 329.8 | -11.0 | 0.88 | 1.292 | 124.6 | 0.781 | 2.842 | 278.7 | 544.2 | 0.621 | 5.063 | -1.03 | 0.217 | 75.6 | 175.4 | -0.6 | 0.254 |
| 4-2100 | 4-3140 | 0.759 | 330.4 | -10.8 | 0.85 | 1.293 | 125.2 | 0.785 | 2.848 | 277.6 | 544.8 | 0.612 | 5.085 | -1.03 | 0.217 | 73.2 | 175.3 | -0.6 | 0.258 |
| 4-2100 | 4-3160 | 0.770 | 331.0 | -10.7 | 0.82 | 1.293 | 125.8 | 0.789 | 2.855 | 276.4 | 545.4 | 0.601 | 5.109 | -1.03 | 0.218 | 70.9 | 175.2 | -0.6 | 0.262 |
| 4-2100 | 4-3180 | 0.781 | 331.7 | -10.5 | 0.79 | 1.293 | 126.4 | 0.794 | 2.863 | 275.2 | 545.9 | 0.591 | 5.135 | -1.03 | 0.220 | 68.7 | 175.3 | -0.5 | 0.266 |
| 4-2100 | 4-3200 | 0.793 | 332.3 | -10.4 | 0.76 | 1.294 | 127.0 | 0.798 | 2.872 | 273.9 | 546.5 | 0.580 | 5.163 | -1.03 | 0.221 | 66.6 | 175.5 | -0.5 | 0.271 |
| 4-2100 | 4-3220 | 0.805 | 332.9 | -10.2 | 0.72 | 1.294 | 127.7 | 0.802 | 2.881 | 272.6 | 546.9 | 0.569 | 5.193 | -1.03 | 0.223 | 64.5 | 175.8 | -0.5 | 0.275 |
| 4-2100 | 4-3240 | 0.817 | 333.6 | -10.0 | 0.69 | 1.295 | 128.4 | 0.807 | 2.891 | 271.3 | 547.4 | 0.558 | 5.224 | -1.04 | 0.224 | 62.5 | 176.2 | -0.5 | 0.280 |
| 4-2100 | 4-3260 | 0.829 | 334.2 | -9.8 | 0.66 | 1.295 | 129.1 | 0.812 | 2.901 | 270.0 | 547.8 | 0.546 | 5.257 | -1.04 | 0.226 | 60.6 | 176.7 | -0.5 | 0.285 |
| 4-2100 | 4-3280 | 0.842 | 334.9 | -9.6 | 0.63 | 1.296 | 129.8 | 0.817 | 2.912 | 268.6 | 548.2 | 0.534 | 5.291 | -1.04 | 0.228 | 58.7 | 177.2 | -0.6 | 0.290 |
| 4-2100 | 4-3300 | 0.856 | 335.5 | -9.5 | 0.60 | 1.296 | 130.5 | 0.822 | 2.924 | 267.2 | 548.5 | 0.521 | 5.326 | -1.05 | 0.230 | 56.9 | 177.9 | -0.6 | 0.295 |
| 4-2100 | 4-3320 | 0.869 | 336.2 | -9.3 | 0.56 | 1.297 | 131.3 | 0.827 | 2.936 | 265.8 | 548.9 | 0.509 | 5.363 | -1.06 | 0.231 | 55.2 | 178.6 | -0.6 | 0.300 |
| 4-2100 | 4-3340 | 0.883 | 336.8 | -9.1 | 0.53 | 1.297 | 132.1 | 0.832 | 2.948 | 264.3 | 549.2 | 0.496 | 5.400 | -1.07 | 0.233 | 53.5 | 179.3 | -0.6 | 0.305 |
| 4-2100 | 4-3360 | 0.897 | 337.5 | -8.9 | 0.50 | 1.298 | 132.8 | 0.837 | 2.960 | 262.9 | 549.4 | 0.482 | 5.439 | -1.07 | 0.235 | 51.8 | 180.2 | -0.7 | 0.310 |
| 4-2100 | 4-3380 | 0.912 | 338.2 | -8.6 | 0.46 | 1.298 | 133.6 | 0.842 | 2.973 | 261.4 | 549.7 | 0.469 | 5.478 | -1.08 | 0.237 | 50.2 | 181.1 | -0.7 | 0.316 |
| 4-2100 | 4-3400 | 0.926 | 338.9 | -8.4 | 0.43 | 1.299 | 134.5 | 0.848 | 2.987 | 259.8 | 549.9 | 0.455 | 5.518 | -1.10 | 0.239 | 48.7 | 182.0 | -0.7 | 0.321 |
| 4-2100 | 4-3420 | 0.941 | 339.5 | -8.2 | 0.39 | 1.300 | 135.3 | 0.853 | 3.000 | 258.3 | 550.0 | 0.441 | 5.559 | -1.11 | 0.242 | 47.1 | 183.0 | -0.8 | 0.326 |
| 4-2100 | 4-3440 | 0.957 | 340.2 | -8.0 | 0.36 | 1.300 | 136.1 | 0.858 | 3.014 | 256.7 | 550.2 | 0.427 | 5.601 | -1.12 | 0.244 | 45.7 | 184.1 | -0.8 | 0.332 |
| 4-2100 | 4-3460 | 0.972 | 340.9 | -7.8 | 0.32 | 1.301 | 137.0 | 0.864 | 3.028 | 255.1 | 550.3 | 0.413 | 5.644 | -1.14 | 0.246 | 44.2 | 185.2 | -0.9 | 0.337 |
| 4-2100 | 4-3480 | 0.988 | 341.6 | -7.5 | 0.28 | 1.301 | 137.9 | 0.869 | 3.043 | 253.5 | 550.4 | 0.399 | 5.687 | -1.15 | 0.248 | 42.8 | 186.3 | -0.9 | 0.342 |
| 4-2100 | 4-3500 | 1.004 | 342.3 | -7.3 | 0.24 | 1.302 | 138.8 | 0.874 | 3.057 | 251.9 | 550.5 | 0.384 | 5.731 | -1.17 | 0.250 | 41.4 | 187.5 | -1.0 | 0.348 |
| 4-2100 | 4-3520 | 1.020 | 343.0 | -7.0 | 0.20 | 1.303 | 139.7 | 0.880 | 3.072 | 250.2 | 550.5 | 0.370 | 5.775 | -1.19 | 0.252 | 40.0 | 188.8 | -1.0 | 0.353 |
| 4-2100 | 4-3540 | 1.036 | 343.7 | -6.8 | 0.16 | 1.303 | 140.6 | 0.885 | 3.087 | 248.5 | 550.6 | 0.355 | 5.820 | -1.21 | 0.254 | 38.7 | 190.0 | -1.1 | 0.358 |
| 4-2100 | 4-3560 | 1.053 | 344.4 | -6.6 | 0.12 | 1.304 | 141.6 | 0.890 | 3.103 | 246.9 | 550.6 | 0.340 | 5.865 | -1.24 | 0.256 | 37.4 | 191.3 | -1.1 | 0.364 |
| 4-2100 | 4-3580 | 1.070 | 345.1 | -6.3 | 0.07 | 1.304 | 142.5 | 0.896 | 3.118 | 245.2 | 550.5 | 0.325 | 5.911 | -1.26 | 0.258 | 36.1 | 192.6 | -1.2 | 0.369 |
| 4-2100 | 4-3600 | 1.087 | 345.8 | -6.1 | 0.02 | 1.305 | 143.5 | 0.901 | 3.134 | 243.4 | 550.5 | 0.311 | 5.956 | -1.29 | 0.260 | 34.8 | 194.0 | -1.3 | 0.375 |
| 4-2100 | 4-3620 | 1.104 | 346.5 | -5.8 | -0.02 | 1.306 | 144.4 | 0.906 | 3.149 | 241.7 | 550.4 | 0.296 | 6.003 | -1.32 | 0.262 | 33.6 | 195.4 | -1.3 | 0.380 |
| 4-2100 | 4-3640 | 1.121 | 347.2 | -5.6 | -0.07 | 1.306 | 145.4 | 0.911 | 3.165 | 239.9 | 550.3 | 0.281 | 6.049 | -1.35 | 0.264 | 32.4 | 196.8 | -1.4 | 0.385 |
| 4-2100 | 4-3660 | 1.139 | 347.9 | -5.3 | -0.13 | 1.307 | 146.4 | 0.916 | 3.181 | 238.1 | 550.2 | 0.267 | 6.096 | -1.39 | 0.266 | 31.1 | 198.2 | -1.4 | 0.391 |
| 4-2100 | 4-3680 | 1.156 | 348.6 | -5.0 | -0.18 | 1.307 | 147.4 | 0.921 | 3.197 | 236.4 | 550.1 | 0.252 | 6.143 | -1.43 | 0.268 | 30.0 | 199.6 | -1.5 | 0.396 |
| 4-2100 | 4-3700 | 1.174 | 349.3 | -4.8 | -0.24 | 1.308 | 148.5 | 0.926 | 3.214 | 234.6 | 550.0 | 0.238 | 6.190 | -1.47 | 0.270 | 28.8 | 201.1 | -1.6 | 0.401 |
| 4-2110 | 4-2510 | 0.787 | 328.1 | -6.7 | 3.80 | 1.416 | 121.8 | 0.990 | 72.772 | 296.1 | 496.0 | 0.716 | --- | -3.39 | 0.624 | 157.3 | 204.8 | -2.6 | 0.621 |
| 4-2110 | 4-2530 | 0.757 | 327.8 | -7.1 | 3.51 | 1.397 | 120.7 | 0.953 | 15.343 | 296.8 | 498.5 | 0.726 | --- | -3.12 | 0.582 | 155.6 | 205.0 | -2.6 | 0.577 |
| 4-2110 | 4-2550 | 0.730 | 327.5 | -7.4 | 3.26 | 1.382 | 119.8 | 0.920 | 9.223 | 297.4 | 501.0 | 0.735 | --- | -2.89 | 0.543 | 153.8 | 205.0 | -2.6 | 0.538 |
| 4-2110 | 4-2570 | 0.707 | 327.3 | -7.7 | 3.04 | 1.368 | 119.0 | 0.892 | 6.899 | 298.0 | 503.4 | 0.743 | --- | -2.69 | 0.509 | 151.9 | 205.0 | -2.6 | 0.503 |
| 4-2110 | 4-2590 | 0.687 | 327.1 | -8.0 | 2.86 | 1.357 | 118.4 | 0.868 | 5.684 | 298.5 | 505.7 | 0.750 | --- | -2.52 | 0.477 | 149.9 | 204.8 | -2.6 | 0.470 |
| 4-2110 | 4-2610 | 0.670 | 326.9 | -8.2 | 2.69 | 1.347 | 117.7 | 0.847 | 4.943 | 298.9 | 507.9 | 0.757 | --- | -2.38 | 0.449 | 147.9 | 204.5 | -2.6 | 0.441 |
| 4-2110 | 4-2630 | 0.655 | 326.8 | -8.5 | 2.54 | 1.339 | 117.2 | 0.829 | 4.448 | 299.3 | 510.1 | 0.762 | --- | -2.25 | 0.423 | 145.7 | 204.2 | -2.6 | 0.415 |
| 4-2110 | 4-2650 | 0.642 | 326.7 | -8.7 | 2.41 | 1.332 | 116.8 | 0.813 | 4.097 | 299.5 | 512.2 | 0.766 | --- | -2.14 | 0.400 | 143.5 | 203.7 | -2.5 | 0.390 |
| 4-2110 | 4-2670 | 0.632 | 326.6 | -8.9 | 2.29 | 1.325 | 116.4 | 0.799 | 3.838 | 299.8 | 514.3 | 0.770 | --- | -2.04 | 0.379 | 141.1 | 203.0 | -2.5 | 0.369 |
| 4-2110 | 4-2690 | 0.623 | 326.6 | -9.0 | 2.18 | 1.320 | 116.1 | 0.788 | 3.640 | 299.9 | 516.3 | 0.772 | --- | -1.95 | 0.359 | 138.7 | 202.3 | -2.5 | 0.349 |
| 4-2110 | 4-2710 | 0.616 | 326.6 | -9.2 | 2.08 | 1.315 | 115.9 | 0.778 | 3.486 | 300.0 | 518.2 | 0.774 | --- | -1.87 | 0.342 | 136.2 | 201.4 | -2.5 | 0.331 |
| 4-2110 | 4-2730 | 0.610 | 326.7 | -9.3 | 1.98 | 1.312 | 115.7 | 0.769 | 3.363 | 300.0 | 520.0 | 0.776 | --- | -1.79 | 0.326 | 133.5 | 200.4 | -2.4 | 0.315 |
| 4-2110 | 4-2750 | 0.605 | 326.8 | -9.4 | 1.90 | 1.308 | 115.6 | 0.762 | 3.265 | 299.9 | 521.7 | 0.776 | --- | -1.73 | 0.312 | 130.9 | 199.4 | -2.4 | 0.301 |
| 4-2110 | 4-2770 | 0.602 | 326.9 | -9.5 | 1.82 | 1.305 | 115.5 | 0.756 | 3.185 | 299.8 | 523.4 | 0.776 | --- | -1.67 | 0.299 | 128.1 | 198.1 | -2.3 | 0.288 |
| 4-2110 | 4-2790 | 0.600 | 327.1 | -9.6 | 1.74 | 1.303 | 115.5 | 0.751 | 3.120 | 299.5 | 525.1 | 0.776 | --- | -1.62 | 0.288 | 125.3 | 196.9 | -2.3 | 0.276 |
| 4-2110 | 4-2810 | 0.599 | 327.3 | -9.7 | 1.67 | 1.301 | 115.5 | 0.747 | 3.067 | 299.3 | 526.6 | 0.775 | --- | -1.57 | 0.278 | 122.4 | 195.5 | -2.2 | 0.267 |
| 4-2110 | 4-2830 | 0.599 | 327.6 | -9.7 | 1.61 | 1.299 | 115.6 | 0.744 | 3.023 | 298.9 | 528.1 | 0.773 | --- | -1.53 | 0.269 | 119.5 | 194.0 | -2.1 | 0.258 |
| 4-2110 | 4-2850 | 0.600 | 327.9 | -9.8 | 1.55 | 1.297 | 115.7 | 0.742 | 2.986 | 298.5 | 529.5 | 0.771 | --- | -1.49 | 0.261 | 116.5 | 192.5 | -2.1 | 0.251 |
| 4-2110 | 4-2870 | 0.601 | 328.2 | -9.8 | 1.49 | 1.296 | 115.8 | 0.740 | 2.957 | 298.1 | 530.9 | 0.768 | --- | -1.45 | 0.254 | 113.5 | 191.0 | -2.0 | 0.245 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2110 | 4-2890 | 0.603 | 328.6 | -9.8 | 1.43 | 1.295 | 116.0 | 0.739 | 2.932 | 297.6 | 532.2 | 0.765 | --- | -1.42 | 0.248 | 110.6 | 189.5 | -1.9 | 0.240 |
| 4-2110 | 4-2910 | 0.607 | 329.0 | -9.8 | 1.38 | 1.294 | 116.2 | 0.739 | 2.913 | 297.0 | 533.4 | 0.761 | --- | -1.38 | 0.243 | 107.6 | 188.0 | -1.8 | 0.236 |
| 4-2110 | 4-2930 | 0.610 | 329.4 | -9.8 | 1.32 | 1.293 | 116.5 | 0.739 | 2.897 | 296.4 | 534.6 | 0.757 | --- | -1.36 | 0.238 | 104.7 | 186.5 | -1.7 | 0.233 |
| 4-2110 | 4-2950 | 0.615 | 329.8 | -9.7 | 1.27 | 1.293 | 116.8 | 0.739 | 2.885 | 295.7 | 535.8 | 0.753 | --- | -1.33 | 0.235 | 101.8 | 185.2 | -1.6 | 0.231 |
| 4-2110 | 4-2970 | 0.620 | 330.3 | -9.7 | 1.23 | 1.292 | 117.1 | 0.740 | 2.876 | 295.0 | 536.8 | 0.748 | --- | -1.31 | 0.232 | 98.9 | 183.8 | -1.5 | 0.230 |
| 4-2110 | 4-2990 | 0.625 | 330.8 | -9.6 | 1.18 | 1.292 | 117.4 | 0.741 | 2.869 | 294.2 | 537.9 | 0.742 | --- | -1.29 | 0.229 | 96.1 | 182.6 | -1.4 | 0.229 |
| 4-2110 | 4-3010 | 0.631 | 331.3 | -9.6 | 1.14 | 1.292 | 117.8 | 0.743 | 2.865 | 293.4 | 538.9 | 0.736 | --- | -1.27 | 0.227 | 93.3 | 181.5 | -1.3 | 0.230 |
| 4-2110 | 4-3030 | 0.638 | 331.8 | -9.5 | 1.09 | 1.292 | 118.2 | 0.745 | 2.862 | 292.5 | 539.8 | 0.730 | --- | -1.25 | 0.226 | 90.6 | 180.5 | -1.3 | 0.231 |
| 4-2110 | 4-3050 | 0.645 | 332.4 | -9.4 | 1.05 | 1.291 | 118.6 | 0.747 | 2.862 | 291.6 | 540.7 | 0.723 | 5.000 | -1.24 | 0.225 | 88.0 | 179.6 | -1.2 | 0.232 |
| 4-2110 | 4-3070 | 0.653 | 332.9 | -9.3 | 1.01 | 1.292 | 119.0 | 0.750 | 2.862 | 290.6 | 541.5 | 0.716 | 5.009 | -1.22 | 0.224 | 85.4 | 178.9 | -1.1 | 0.234 |
| 4-2110 | 4-3090 | 0.661 | 333.5 | -9.2 | 0.97 | 1.292 | 119.5 | 0.753 | 2.865 | 289.7 | 542.3 | 0.709 | 5.021 | -1.21 | 0.224 | 82.9 | 178.3 | -1.0 | 0.236 |
| 4-2110 | 4-3110 | 0.669 | 334.1 | -9.1 | 0.93 | 1.292 | 120.0 | 0.756 | 2.868 | 288.6 | 543.1 | 0.701 | 5.036 | -1.20 | 0.224 | 80.5 | 177.8 | -1.0 | 0.239 |
| 4-2110 | 4-3130 | 0.678 | 334.7 | -8.9 | 0.89 | 1.292 | 120.5 | 0.759 | 2.873 | 287.6 | 543.8 | 0.693 | 5.053 | -1.19 | 0.225 | 78.2 | 177.4 | -0.9 | 0.242 |
| 4-2110 | 4-3150 | 0.688 | 335.3 | -8.8 | 0.85 | 1.292 | 121.0 | 0.762 | 2.879 | 286.5 | 544.5 | 0.684 | 5.073 | -1.18 | 0.225 | 76.0 | 177.2 | -0.9 | 0.245 |
| 4-2110 | 4-3170 | 0.697 | 335.9 | -8.6 | 0.82 | 1.293 | 121.6 | 0.766 | 2.885 | 285.3 | 545.2 | 0.675 | 5.095 | -1.17 | 0.226 | 73.8 | 177.1 | -0.9 | 0.249 |
| 4-2110 | 4-3190 | 0.708 | 336.6 | -8.5 | 0.78 | 1.293 | 122.1 | 0.770 | 2.892 | 284.2 | 545.8 | 0.666 | 5.119 | -1.17 | 0.227 | 71.7 | 177.1 | -0.8 | 0.253 |
| 4-2110 | 4-3210 | 0.718 | 337.2 | -8.3 | 0.74 | 1.293 | 122.7 | 0.774 | 2.901 | 283.0 | 546.3 | 0.656 | 5.145 | -1.16 | 0.228 | 69.7 | 177.2 | -0.8 | 0.257 |
| 4-2110 | 4-3230 | 0.729 | 337.9 | -8.2 | 0.71 | 1.294 | 123.3 | 0.778 | 2.909 | 281.7 | 546.9 | 0.646 | 5.173 | -1.16 | 0.230 | 67.7 | 177.4 | -0.8 | 0.261 |
| 4-2110 | 4-3250 | 0.740 | 338.5 | -8.0 | 0.67 | 1.294 | 124.0 | 0.782 | 2.919 | 280.5 | 547.4 | 0.635 | 5.202 | -1.16 | 0.231 | 65.8 | 177.7 | -0.8 | 0.265 |
| 4-2110 | 4-3270 | 0.752 | 339.2 | -7.8 | 0.64 | 1.295 | 124.6 | 0.787 | 2.929 | 279.2 | 547.9 | 0.625 | 5.233 | -1.15 | 0.232 | 64.0 | 178.0 | -0.8 | 0.270 |
| 4-2110 | 4-3290 | 0.764 | 339.8 | -7.6 | 0.60 | 1.295 | 125.3 | 0.791 | 2.939 | 277.9 | 548.3 | 0.614 | 5.265 | -1.15 | 0.234 | 62.2 | 178.5 | -0.8 | 0.274 |
| 4-2110 | 4-3310 | 0.776 | 340.5 | -7.4 | 0.57 | 1.296 | 125.9 | 0.796 | 2.950 | 276.6 | 548.7 | 0.602 | 5.298 | -1.15 | 0.236 | 60.5 | 179.1 | -0.8 | 0.279 |
| 4-2110 | 4-3330 | 0.788 | 341.2 | -7.2 | 0.53 | 1.296 | 126.6 | 0.801 | 2.962 | 275.2 | 549.1 | 0.590 | 5.333 | -1.16 | 0.237 | 58.9 | 179.7 | -0.8 | 0.284 |
| 4-2110 | 4-3350 | 0.801 | 341.8 | -7.0 | 0.50 | 1.297 | 127.3 | 0.805 | 2.974 | 273.8 | 549.4 | 0.578 | 5.369 | -1.16 | 0.239 | 57.2 | 180.4 | -0.8 | 0.288 |
| 4-2110 | 4-3370 | 0.814 | 342.5 | -6.8 | 0.46 | 1.297 | 128.1 | 0.810 | 2.986 | 272.4 | 549.8 | 0.566 | 5.405 | -1.16 | 0.241 | 55.7 | 181.2 | -0.9 | 0.293 |
| 4-2110 | 4-3390 | 0.828 | 343.2 | -6.6 | 0.43 | 1.298 | 128.8 | 0.815 | 2.998 | 271.0 | 550.1 | 0.554 | 5.443 | -1.17 | 0.243 | 54.1 | 182.0 | -0.9 | 0.298 |
| 4-2110 | 4-3410 | 0.842 | 343.9 | -6.4 | 0.39 | 1.298 | 129.6 | 0.820 | 3.011 | 269.5 | 550.3 | 0.541 | 5.482 | -1.17 | 0.245 | 52.6 | 182.9 | -0.9 | 0.303 |
| 4-2110 | 4-3430 | 0.855 | 344.6 | -6.1 | 0.35 | 1.299 | 130.3 | 0.826 | 3.024 | 268.0 | 550.6 | 0.528 | 5.521 | -1.18 | 0.246 | 51.2 | 183.8 | -0.9 | 0.308 |
| 4-2110 | 4-3450 | 0.870 | 345.3 | -5.9 | 0.32 | 1.299 | 131.1 | 0.831 | 3.038 | 266.5 | 550.8 | 0.514 | 5.561 | -1.19 | 0.248 | 49.8 | 184.8 | -1.0 | 0.313 |
| 4-2110 | 4-3470 | 0.884 | 346.0 | -5.7 | 0.28 | 1.300 | 131.9 | 0.836 | 3.051 | 265.0 | 551.0 | 0.501 | 5.602 | -1.20 | 0.250 | 48.4 | 185.8 | -1.0 | 0.318 |
| 4-2110 | 4-3490 | 0.899 | 346.7 | -5.4 | 0.24 | 1.300 | 132.8 | 0.841 | 3.065 | 263.4 | 551.1 | 0.487 | 5.644 | -1.21 | 0.252 | 47.0 | 186.9 | -1.1 | 0.323 |
| 4-2110 | 4-3510 | 0.914 | 347.3 | -5.2 | 0.20 | 1.301 | 133.6 | 0.846 | 3.080 | 261.9 | 551.3 | 0.473 | 5.686 | -1.22 | 0.254 | 45.7 | 188.0 | -1.1 | 0.328 |
| 4-2110 | 4-3530 | 0.929 | 348.0 | -5.0 | 0.16 | 1.302 | 134.4 | 0.852 | 3.094 | 260.3 | 551.4 | 0.459 | 5.729 | -1.24 | 0.256 | 44.4 | 189.2 | -1.2 | 0.333 |
| 4-2110 | 4-3550 | 0.944 | 348.7 | -4.7 | 0.13 | 1.302 | 135.3 | 0.857 | 3.109 | 258.7 | 551.5 | 0.444 | 5.773 | -1.25 | 0.258 | 43.1 | 190.4 | -1.2 | 0.338 |
| 4-2110 | 4-3570 | 0.960 | 349.4 | -4.5 | 0.08 | 1.303 | 136.2 | 0.862 | 3.123 | 257.1 | 551.6 | 0.430 | 5.817 | -1.27 | 0.260 | 41.9 | 191.6 | -1.3 | 0.343 |
| 4-2110 | 4-3590 | 0.976 | 350.1 | -4.2 | 0.04 | 1.303 | 137.1 | 0.868 | 3.138 | 255.4 | 551.6 | 0.415 | 5.862 | -1.29 | 0.262 | 40.7 | 192.8 | -1.3 | 0.348 |
| 4-2110 | 4-3610 | 0.992 | 350.8 | -4.0 | 0.00 | 1.304 | 137.9 | 0.873 | 3.153 | 253.8 | 551.6 | 0.400 | 5.907 | -1.31 | 0.263 | 39.4 | 194.1 | -1.4 | 0.354 |
| 4-2110 | 4-3630 | 1.008 | 351.5 | -3.7 | -0.04 | 1.305 | 138.9 | 0.878 | 3.169 | 252.1 | 551.6 | 0.385 | 5.952 | -1.33 | 0.265 | 38.2 | 195.5 | -1.4 | 0.359 |
| 4-2110 | 4-3650 | 1.025 | 352.2 | -3.4 | -0.09 | 1.305 | 139.8 | 0.884 | 3.184 | 250.4 | 551.6 | 0.371 | 5.998 | -1.35 | 0.267 | 37.1 | 196.8 | -1.5 | 0.364 |
| 4-2110 | 4-3670 | 1.041 | 352.9 | -3.2 | -0.14 | 1.306 | 140.7 | 0.889 | 3.200 | 248.7 | 551.6 | 0.356 | 6.044 | -1.37 | 0.269 | 35.9 | 198.2 | -1.5 | 0.369 |
| 4-2110 | 4-3690 | 1.058 | 353.6 | -2.9 | -0.18 | 1.306 | 141.7 | 0.894 | 3.215 | 247.0 | 551.5 | 0.341 | 6.090 | -1.40 | 0.271 | 34.7 | 199.6 | -1.6 | 0.374 |
| 4-2110 | 4-3710 | 1.075 | 354.3 | -2.6 | -0.23 | 1.307 | 142.6 | 0.899 | 3.231 | 245.3 | 551.5 | 0.326 | 6.137 | -1.43 | 0.273 | 33.6 | 201.0 | -1.7 | 0.379 |
| 4-2120 | 4-2520 | 0.740 | 331.3 | 0.7 | 6.91 | 1.415 | 118.3 | 0.993 | 15.834 | 303.2 | 494.0 | 0.770 | --- | -6.62 | 0.629 | 156.6 | 206.4 | -4.0 | 0.619 |
| 4-2120 | 4-2540 | 0.707 | 331.1 | -0.6 | 5.94 | 1.397 | 117.3 | 0.953 | 16.666 | 303.9 | 496.6 | 0.780 | --- | -5.68 | 0.586 | 154.9 | 206.6 | -3.8 | 0.575 |
| 4-2120 | 4-2560 | 0.679 | 331.0 | -1.7 | 5.22 | 1.382 | 116.4 | 0.919 | 9.688 | 304.6 | 499.1 | 0.789 | --- | -4.97 | 0.548 | 153.1 | 206.7 | -3.7 | 0.536 |
| 4-2120 | 4-2580 | 0.655 | 330.8 | -2.6 | 4.65 | 1.368 | 115.6 | 0.889 | 7.156 | 305.3 | 501.6 | 0.796 | --- | -4.43 | 0.514 | 151.2 | 206.7 | -3.6 | 0.500 |
| 4-2120 | 4-2600 | 0.634 | 330.7 | -3.3 | 4.20 | 1.357 | 114.9 | 0.863 | 5.857 | 305.8 | 504.0 | 0.803 | --- | -3.99 | 0.483 | 149.2 | 206.6 | -3.5 | 0.468 |
| 4-2120 | 4-2620 | 0.617 | 330.5 | -3.9 | 3.82 | 1.347 | 114.3 | 0.841 | 5.073 | 306.3 | 506.3 | 0.809 | --- | -3.64 | 0.455 | 147.2 | 206.4 | -3.4 | 0.439 |
| 4-2120 | 4-2640 | 0.602 | 330.4 | -4.5 | 3.51 | 1.339 | 113.8 | 0.821 | 4.552 | 306.8 | 508.6 | 0.814 | --- | -3.35 | 0.429 | 145.0 | 206.0 | -3.3 | 0.412 |
| 4-2120 | 4-2660 | 0.589 | 330.3 | -4.9 | 3.24 | 1.332 | 113.4 | 0.804 | 4.185 | 307.1 | 510.7 | 0.818 | --- | -3.10 | 0.406 | 142.8 | 205.6 | -3.3 | 0.388 |
| 4-2120 | 4-2680 | 0.578 | 330.3 | -5.3 | 3.01 | 1.325 | 113.0 | 0.790 | 3.914 | 307.4 | 512.8 | 0.822 | --- | -2.89 | 0.385 | 140.5 | 205.0 | -3.2 | 0.366 |
| 4-2120 | 4-2700 | 0.569 | 330.3 | -5.7 | 2.81 | 1.320 | 112.7 | 0.778 | 3.708 | 307.6 | 514.9 | 0.824 | --- | -2.71 | 0.366 | 138.1 | 204.3 | -3.2 | 0.346 |
| 4-2120 | 4-2720 | 0.561 | 330.3 | -6.0 | 2.63 | 1.315 | 112.4 | 0.767 | 3.547 | 307.7 | 516.8 | 0.827 | --- | -2.55 | 0.349 | 135.7 | 203.5 | -3.1 | 0.328 |
| 4-2120 | 4-2740 | 0.555 | 330.4 | -6.3 | 2.47 | 1.311 | 112.3 | 0.758 | 3.420 | 307.8 | 518.7 | 0.828 | --- | -2.42 | 0.334 | 133.1 | 202.6 | -3.1 | 0.312 |
| 4-2120 | 4-2760 | 0.550 | 330.5 | -6.6 | 2.33 | 1.308 | 112.1 | 0.750 | 3.317 | 307.8 | 520.5 | 0.829 | --- | -2.30 | 0.320 | 130.5 | 201.6 | -3.0 | 0.298 |
| 4-2120 | 4-2780 | 0.546 | 330.7 | -6.8 | 2.20 | 1.305 | 112.0 | 0.744 | 3.234 | 307.7 | 522.3 | 0.829 | --- | -2.19 | 0.307 | 127.8 | 200.4 | -2.9 | 0.285 |
| 4-2120 | 4-2800 | 0.544 | 330.9 | -7.0 | 2.08 | 1.302 | 112.0 | 0.738 | 3.166 | 307.5 | 523.9 | 0.829 | --- | -2.09 | 0.296 | 125.1 | 199.2 | -2.9 | 0.273 |
| 4-2120 | 4-2820 | 0.542 | 331.1 | -7.1 | 1.98 | 1.300 | 112.0 | 0.734 | 3.111 | 307.3 | 525.5 | 0.828 | --- | -2.01 | 0.286 | 122.3 | 197.9 | -2.8 | 0.263 |
| 4-2120 | 4-2840 | 0.542 | 331.4 | -7.3 | 1.88 | 1.298 | 112.1 | 0.730 | 3.065 | 307.0 | 527.1 | 0.827 | --- | -1.93 | 0.277 | 119.5 | 196.5 | -2.7 | 0.254 |
| 4-2120 | 4-2860 | 0.542 | 331.7 | -7.4 | 1.79 | 1.297 | 112.1 | 0.727 | 3.027 | 306.7 | 528.6 | 0.825 | --- | -1.86 | 0.269 | 116.7 | 195.0 | -2.6 | 0.246 |
| 4-2120 | 4-2880 | 0.543 | 332.1 | -7.5 | 1.70 | 1.295 | 112.3 | 0.725 | 2.996 | 306.2 | 530.0 | 0.823 | --- | -1.80 | 0.262 | 113.9 | 193.5 | -2.5 | 0.240 |
| 4-2120 | 4-2900 | 0.545 | 332.4 | -7.5 | 1.62 | 1.294 | 112.4 | 0.724 | 2.970 | 305.8 | 531.3 | 0.821 | --- | -1.74 | 0.256 | 111.0 | 192.0 | -2.4 | 0.235 |
| 4-2120 | 4-2920 | 0.547 | 332.9 | -7.6 | 1.55 | 1.293 | 112.6 | 0.723 | 2.950 | 305.2 | 532.6 | 0.818 | --- | -1.69 | 0.251 | 108.2 | 190.5 | -2.3 | 0.230 |
| 4-2120 | 4-2940 | 0.550 | 333.3 | -7.6 | 1.47 | 1.293 | 112.8 | 0.722 | 2.933 | 304.7 | 533.8 | 0.814 | --- | -1.64 | 0.247 | 105.4 | 189.0 | -2.2 | 0.227 |
| 4-2120 | 4-2960 | 0.554 | 333.8 | -7.6 | 1.41 | 1.292 | 113.1 | 0.722 | 2.920 | 304.0 | 535.0 | 0.810 | --- | -1.60 | 0.243 | 102.6 | 187.6 | -2.1 | 0.225 |
| 4-2120 | 4-2980 | 0.559 | 334.3 | -7.6 | 1.34 | 1.292 | 113.4 | 0.723 | 2.910 | 303.3 | 536.1 | 0.806 | --- | -1.56 | 0.240 | 99.9 | 186.3 | -2.0 | 0.223 |
| 4-2120 | 4-3000 | 0.563 | 334.8 | -7.6 | 1.28 | 1.291 | 113.7 | 0.724 | 2.903 | 302.6 | 537.2 | 0.802 | --- | -1.52 | 0.238 | 97.2 | 185.0 | -1.9 | 0.222 |
| 4-2120 | 4-3020 | 0.569 | 335.4 | -7.5 | 1.23 | 1.291 | 114.0 | 0.725 | 2.898 | 301.8 | 538.2 | 0.797 | --- | -1.49 | 0.236 | 94.6 | 183.9 | -1.8 | 0.222 |
| 4-2120 | 4-3040 | 0.575 | 335.9 | -7.5 | 1.17 | 1.291 | 114.4 | 0.727 | 2.894 | 301.0 | 539.2 | 0.791 | --- | -1.46 | 0.234 | 92.1 | 182.8 | -1.7 | 0.222 |
| 4-2120 | 4-3060 | 0.581 | 336.5 | -7.4 | 1.12 | 1.291 | 114.8 | 0.728 | 2.893 | 300.2 | 540.2 | 0.786 | 5.001 | -1.43 | 0.233 | 89.6 | 181.9 | -1.6 | 0.223 |
| 4-2120 | 4-3080 | 0.588 | 337.1 | -7.3 | 1.07 | 1.291 | 115.2 | 0.731 | 2.894 | 299.2 | 541.0 | 0.779 | 5.008 | -1.41 | 0.232 | 87.2 | 181.1 | -1.5 | 0.225 |
| 4-2120 | 4-3100 | 0.595 | 337.7 | -7.2 | 1.02 | 1.291 | 115.6 | 0.733 | 2.895 | 298.3 | 541.9 | 0.773 | 5.018 | -1.39 | 0.232 | 84.8 | 180.4 | -1.4 | 0.227 |
| 4-2120 | 4-3120 | 0.603 | 338.4 | -7.1 | 0.97 | 1.291 | 116.0 | 0.736 | 2.898 | 297.3 | 542.7 | 0.766 | 5.031 | -1.37 | 0.232 | 82.6 | 179.8 | -1.4 | 0.229 |
| 4-2120 | 4-3140 | 0.611 | 339.0 | -6.9 | 0.92 | 1.291 | 116.5 | 0.739 | 2.903 | 296.3 | 543.5 | 0.759 | 5.046 | -1.35 | 0.232 | 80.4 | 179.4 | -1.3 | 0.232 |
| 4-2120 | 4-3160 | 0.620 | 339.7 | -6.8 | 0.88 | 1.292 | 117.0 | 0.742 | 2.908 | 295.3 | 544.2 | 0.751 | 5.064 | -1.33 | 0.232 | 78.2 | 179.0 | -1.2 | 0.234 |
| 4-2120 | 4-3180 | 0.628 | 340.3 | -6.7 | 0.84 | 1.292 | 117.5 | 0.745 | 2.914 | 294.2 | 544.9 | 0.743 | 5.085 | -1.32 | 0.233 | 76.2 | 178.8 | -1.2 | 0.238 |
| 4-2120 | 4-3200 | 0.638 | 341.0 | -6.5 | 0.79 | 1.292 | 118.0 | 0.748 | 2.921 | 293.1 | 545.5 | 0.735 | 5.107 | -1.30 | 0.234 | 74.2 | 178.8 | -1.2 | 0.241 |
| 4-2120 | 4-3220 | 0.647 | 341.7 | -6.3 | 0.75 | 1.293 | 118.6 | 0.752 | 2.929 | 291.9 | 546.2 | 0.727 | 5.131 | -1.29 | 0.235 | 72.3 | 178.8 | -1.1 | 0.245 |
| 4-2120 | 4-3240 | 0.657 | 342.4 | -6.2 | 0.71 | 1.293 | 119.1 | 0.756 | 2.937 | 290.7 | 546.8 | 0.718 | 5.157 | -1.28 | 0.236 | 70.4 | 178.9 | -1.1 | 0.249 |
| 4-2120 | 4-3260 | 0.667 | 343.0 | -6.0 | 0.67 | 1.293 | 119.7 | 0.760 | 2.946 | 289.5 | 547.3 | 0.708 | 5.184 | -1.27 | 0.237 | 68.6 | 179.1 | -1.1 | 0.252 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2120 | 4-3280 | 0.678 | 343.7 | -5.8 | 0.63 | 1.294 | 120.3 | 0.764 | 2.956 | 288.3 | 547.8 | 0.699 | 5.213 | -1.26 | 0.239 | 66.9 | 179.4 | -1.1 | 0.257 |
| 4-2120 | 4-3300 | 0.689 | 344.4 | -5.6 | 0.59 | 1.294 | 120.9 | 0.768 | 2.966 | 287.0 | 548.3 | 0.689 | 5.243 | -1.26 | 0.240 | 65.2 | 179.8 | -1.0 | 0.261 |
| 4-2120 | 4-3320 | 0.700 | 345.1 | -5.4 | 0.55 | 1.295 | 121.6 | 0.772 | 2.977 | 285.8 | 548.8 | 0.679 | 5.275 | -1.25 | 0.241 | 63.6 | 180.3 | -1.0 | 0.265 |
| 4-2120 | 4-3340 | 0.712 | 345.8 | -5.2 | 0.51 | 1.295 | 122.2 | 0.776 | 2.988 | 284.4 | 549.2 | 0.668 | 5.308 | -1.25 | 0.243 | 62.0 | 180.9 | -1.0 | 0.269 |
| 4-2120 | 4-3360 | 0.724 | 346.5 | -5.0 | 0.48 | 1.296 | 122.9 | 0.781 | 2.999 | 283.1 | 549.6 | 0.657 | 5.342 | -1.24 | 0.245 | 60.4 | 181.5 | -1.0 | 0.274 |
| 4-2120 | 4-3380 | 0.736 | 347.2 | -4.8 | 0.44 | 1.296 | 123.5 | 0.786 | 3.011 | 281.8 | 550.0 | 0.646 | 5.377 | -1.24 | 0.246 | 58.9 | 182.2 | -1.1 | 0.278 |
| 4-2120 | 4-3400 | 0.748 | 347.9 | -4.6 | 0.40 | 1.297 | 124.2 | 0.790 | 3.023 | 280.4 | 550.4 | 0.634 | 5.412 | -1.24 | 0.248 | 57.5 | 183.0 | -1.1 | 0.283 |
| 4-2120 | 4-3420 | 0.761 | 348.6 | -4.3 | 0.36 | 1.297 | 124.9 | 0.795 | 3.036 | 279.0 | 550.7 | 0.622 | 5.449 | -1.24 | 0.249 | 56.1 | 183.8 | -1.1 | 0.287 |
| 4-2120 | 4-3440 | 0.774 | 349.3 | -4.1 | 0.33 | 1.298 | 125.7 | 0.800 | 3.049 | 277.5 | 551.0 | 0.610 | 5.487 | -1.24 | 0.251 | 54.7 | 184.6 | -1.1 | 0.292 |
| 4-2120 | 4-3460 | 0.787 | 350.0 | -3.9 | 0.29 | 1.298 | 126.4 | 0.805 | 3.062 | 276.1 | 551.2 | 0.598 | 5.526 | -1.25 | 0.253 | 53.3 | 185.6 | -1.2 | 0.297 |
| 4-2120 | 4-3480 | 0.800 | 350.8 | -3.6 | 0.25 | 1.299 | 127.1 | 0.810 | 3.075 | 274.6 | 551.5 | 0.585 | 5.565 | -1.25 | 0.255 | 52.0 | 186.5 | -1.2 | 0.301 |
| 4-2120 | 4-3500 | 0.814 | 351.5 | -3.4 | 0.21 | 1.299 | 127.9 | 0.815 | 3.089 | 273.2 | 551.7 | 0.572 | 5.605 | -1.26 | 0.256 | 50.7 | 187.6 | -1.2 | 0.306 |
| 4-2120 | 4-3520 | 0.828 | 352.2 | -3.1 | 0.18 | 1.300 | 128.7 | 0.820 | 3.103 | 271.7 | 551.9 | 0.559 | 5.646 | -1.26 | 0.258 | 49.5 | 188.6 | -1.3 | 0.311 |
| 4-2120 | 4-3540 | 0.842 | 352.9 | -2.9 | 0.14 | 1.300 | 129.5 | 0.825 | 3.117 | 270.1 | 552.1 | 0.546 | 5.687 | -1.27 | 0.260 | 48.2 | 189.7 | -1.3 | 0.316 |
| 4-2120 | 4-3560 | 0.857 | 353.6 | -2.6 | 0.10 | 1.301 | 130.3 | 0.830 | 3.131 | 268.6 | 552.2 | 0.532 | 5.729 | -1.28 | 0.262 | 47.0 | 190.8 | -1.3 | 0.320 |
| 4-2120 | 4-3580 | 0.871 | 354.3 | -2.4 | 0.06 | 1.302 | 131.1 | 0.835 | 3.145 | 267.0 | 552.4 | 0.518 | 5.772 | -1.29 | 0.263 | 45.8 | 192.0 | -1.4 | 0.325 |
| 4-2120 | 4-3600 | 0.886 | 355.0 | -2.1 | 0.02 | 1.302 | 131.9 | 0.840 | 3.160 | 265.5 | 552.5 | 0.504 | 5.815 | -1.30 | 0.265 | 44.6 | 193.2 | -1.4 | 0.330 |
| 4-2120 | 4-3620 | 0.901 | 355.7 | -1.9 | -0.02 | 1.303 | 132.7 | 0.846 | 3.175 | 263.9 | 552.6 | 0.490 | 5.859 | -1.31 | 0.267 | 43.5 | 194.5 | -1.5 | 0.335 |
| 4-2120 | 4-3640 | 0.916 | 356.4 | -1.6 | -0.06 | 1.303 | 133.6 | 0.851 | 3.189 | 262.3 | 552.6 | 0.476 | 5.903 | -1.33 | 0.269 | 42.3 | 195.7 | -1.5 | 0.339 |
| 4-2120 | 4-3660 | 0.932 | 357.1 | -1.4 | -0.10 | 1.304 | 134.5 | 0.856 | 3.204 | 260.7 | 552.7 | 0.461 | 5.948 | -1.34 | 0.270 | 41.2 | 197.0 | -1.6 | 0.344 |
| 4-2120 | 4-3680 | 0.948 | 357.8 | -1.1 | -0.14 | 1.304 | 135.3 | 0.861 | 3.220 | 259.0 | 552.7 | 0.446 | 5.993 | -1.36 | 0.272 | 40.1 | 198.3 | -1.6 | 0.349 |
| 4-2120 | 4-3700 | 0.963 | 358.5 | -0.8 | -0.19 | 1.305 | 136.2 | 0.867 | 3.235 | 257.4 | 552.7 | 0.432 | 6.038 | -1.37 | 0.274 | 39.0 | 199.7 | -1.7 | 0.354 |
| 4-2120 | 4-3720 | 0.979 | 359.2 | -0.6 | -0.23 | 1.306 | 137.1 | 0.872 | 3.250 | 255.7 | 552.7 | 0.417 | 6.084 | -1.39 | 0.275 | 37.9 | 201.0 | -1.8 | 0.358 |
| 4-2130 | 4-2550 | 0.753 | 330.3 | 26.2 | 20.09 | 1.396 | 113.8 | 0.953 | 17.494 | 311.1 | 494.9 | 0.830 | --- | -19.95 | 0.589 | 154.1 | 206.6 | -10.0 | 0.582 |
| 4-2130 | 4-2570 | 0.671 | 330.8 | 16.5 | 13.61 | 1.381 | 112.9 | 0.916 | 9.987 | 312.0 | 497.5 | 0.839 | --- | -13.49 | 0.551 | 152.3 | 207.5 | -7.8 | 0.537 |
| 4-2130 | 4-2590 | 0.627 | 331.4 | 10.9 | 10.27 | 1.368 | 112.1 | 0.885 | 7.328 | 312.7 | 500.0 | 0.846 | --- | -10.17 | 0.517 | 150.5 | 207.8 | -6.6 | 0.500 |
| 4-2130 | 4-2610 | 0.596 | 331.7 | 7.3 | 8.23 | 1.356 | 111.4 | 0.857 | 5.977 | 313.3 | 502.5 | 0.853 | --- | -8.15 | 0.486 | 148.5 | 207.9 | -5.9 | 0.467 |
| 4-2130 | 4-2630 | 0.573 | 331.9 | 4.7 | 6.87 | 1.346 | 110.8 | 0.834 | 5.166 | 313.9 | 504.9 | 0.858 | --- | -6.81 | 0.459 | 146.5 | 207.8 | -5.4 | 0.437 |
| 4-2130 | 4-2650 | 0.555 | 332.1 | 2.9 | 5.88 | 1.338 | 110.3 | 0.814 | 4.629 | 314.4 | 507.2 | 0.863 | --- | -5.85 | 0.434 | 144.4 | 207.6 | -5.0 | 0.410 |
| 4-2130 | 4-2670 | 0.540 | 332.2 | 1.4 | 5.14 | 1.331 | 109.9 | 0.796 | 4.251 | 314.8 | 509.5 | 0.867 | --- | -5.13 | 0.411 | 142.2 | 207.2 | -4.8 | 0.386 |
| 4-2130 | 4-2690 | 0.528 | 332.3 | 0.2 | 4.57 | 1.325 | 109.5 | 0.781 | 3.972 | 315.2 | 511.6 | 0.870 | --- | -4.57 | 0.390 | 139.9 | 206.7 | -4.5 | 0.364 |
| 4-2130 | 4-2710 | 0.518 | 332.4 | -0.8 | 4.10 | 1.319 | 109.2 | 0.768 | 3.761 | 315.4 | 513.7 | 0.872 | --- | -4.13 | 0.371 | 137.5 | 206.1 | -4.4 | 0.344 |
| 4-2130 | 4-2730 | 0.510 | 332.6 | -1.6 | 3.72 | 1.315 | 109.0 | 0.757 | 3.596 | 315.6 | 515.7 | 0.874 | --- | -3.77 | 0.355 | 135.1 | 205.3 | -4.2 | 0.326 |
| 4-2130 | 4-2750 | 0.503 | 332.7 | -2.3 | 3.39 | 1.311 | 108.8 | 0.747 | 3.465 | 315.7 | 517.7 | 0.876 | --- | -3.46 | 0.339 | 132.6 | 204.5 | -4.1 | 0.309 |
| 4-2130 | 4-2770 | 0.498 | 332.9 | -2.8 | 3.12 | 1.307 | 108.6 | 0.739 | 3.360 | 315.8 | 519.5 | 0.877 | --- | -3.21 | 0.326 | 130.1 | 203.5 | -3.9 | 0.295 |
| 4-2130 | 4-2790 | 0.494 | 333.1 | -3.3 | 2.88 | 1.304 | 108.5 | 0.732 | 3.275 | 315.7 | 521.3 | 0.877 | --- | -3.00 | 0.313 | 127.5 | 202.4 | -3.8 | 0.281 |
| 4-2130 | 4-2810 | 0.491 | 333.4 | -3.8 | 2.68 | 1.302 | 108.5 | 0.726 | 3.206 | 315.6 | 523.0 | 0.877 | --- | -2.81 | 0.302 | 124.8 | 201.2 | -3.7 | 0.270 |
| 4-2130 | 4-2830 | 0.489 | 333.7 | -4.1 | 2.49 | 1.300 | 108.5 | 0.722 | 3.148 | 315.4 | 524.7 | 0.877 | --- | -2.65 | 0.292 | 122.1 | 199.9 | -3.6 | 0.259 |
| 4-2130 | 4-2850 | 0.488 | 334.0 | -4.4 | 2.33 | 1.298 | 108.5 | 0.718 | 3.101 | 315.2 | 526.2 | 0.876 | --- | -2.51 | 0.284 | 119.4 | 198.5 | -3.5 | 0.250 |
| 4-2130 | 4-2870 | 0.487 | 334.4 | -4.7 | 2.18 | 1.296 | 108.6 | 0.714 | 3.062 | 314.9 | 527.7 | 0.874 | --- | -2.38 | 0.276 | 116.7 | 197.1 | -3.3 | 0.242 |
| 4-2130 | 4-2890 | 0.488 | 334.8 | -4.9 | 2.05 | 1.295 | 108.7 | 0.712 | 3.030 | 314.5 | 529.2 | 0.873 | --- | -2.27 | 0.269 | 114.0 | 195.7 | -3.2 | 0.236 |
| 4-2130 | 4-2910 | 0.489 | 335.3 | -5.1 | 1.93 | 1.294 | 108.9 | 0.710 | 3.004 | 314.1 | 530.6 | 0.871 | --- | -2.17 | 0.263 | 111.2 | 194.2 | -3.1 | 0.230 |
| 4-2130 | 4-2930 | 0.491 | 335.8 | -5.2 | 1.82 | 1.293 | 109.0 | 0.709 | 2.982 | 313.6 | 531.9 | 0.868 | --- | -2.09 | 0.258 | 108.5 | 192.7 | -2.9 | 0.225 |
| 4-2130 | 4-2950 | 0.494 | 336.3 | -5.3 | 1.71 | 1.292 | 109.2 | 0.708 | 2.965 | 313.0 | 533.2 | 0.866 | --- | -2.01 | 0.254 | 105.9 | 191.2 | -2.8 | 0.222 |
| 4-2130 | 4-2970 | 0.497 | 336.8 | -5.4 | 1.62 | 1.291 | 109.5 | 0.708 | 2.952 | 312.4 | 534.4 | 0.862 | --- | -1.93 | 0.250 | 103.2 | 189.8 | -2.7 | 0.219 |
| 4-2130 | 4-2990 | 0.500 | 337.4 | -5.5 | 1.53 | 1.291 | 109.7 | 0.708 | 2.941 | 311.8 | 535.5 | 0.859 | --- | -1.87 | 0.247 | 100.6 | 188.4 | -2.5 | 0.217 |
| 4-2130 | 4-3010 | 0.505 | 338.0 | -5.5 | 1.45 | 1.291 | 110.0 | 0.708 | 2.933 | 311.1 | 536.6 | 0.855 | --- | -1.81 | 0.245 | 98.1 | 187.2 | -2.4 | 0.216 |
| 4-2130 | 4-3030 | 0.509 | 338.6 | -5.5 | 1.37 | 1.290 | 110.3 | 0.709 | 2.928 | 310.3 | 537.7 | 0.851 | --- | -1.76 | 0.243 | 95.6 | 186.0 | -2.3 | 0.215 |
| 4-2130 | 4-3050 | 0.515 | 339.2 | -5.5 | 1.30 | 1.290 | 110.7 | 0.711 | 2.924 | 309.6 | 538.7 | 0.846 | --- | -1.71 | 0.241 | 93.2 | 184.9 | -2.2 | 0.215 |
| 4-2130 | 4-3070 | 0.520 | 339.9 | -5.4 | 1.23 | 1.290 | 111.0 | 0.712 | 2.922 | 308.7 | 539.7 | 0.842 | --- | -1.66 | 0.240 | 90.8 | 183.9 | -2.1 | 0.216 |
| 4-2130 | 4-3090 | 0.526 | 340.6 | -5.3 | 1.16 | 1.290 | 111.4 | 0.714 | 2.923 | 307.9 | 540.6 | 0.836 | 5.009 | -1.62 | 0.239 | 88.5 | 183.0 | -2.0 | 0.217 |
| 4-2130 | 4-3110 | 0.533 | 341.2 | -5.3 | 1.10 | 1.290 | 111.8 | 0.716 | 2.924 | 306.9 | 541.5 | 0.831 | 5.017 | -1.59 | 0.239 | 86.3 | 182.3 | -1.9 | 0.219 |
| 4-2130 | 4-3130 | 0.540 | 341.9 | -5.2 | 1.04 | 1.290 | 112.2 | 0.718 | 2.927 | 306.0 | 542.3 | 0.825 | 6.028 | -1.55 | 0.239 | 84.1 | 181.7 | -1.8 | 0.220 |
| 4-2130 | 4-3150 | 0.547 | 342.6 | -5.1 | 0.98 | 1.290 | 112.7 | 0.721 | 2.931 | 305.0 | 543.1 | 0.819 | 5.042 | -1.52 | 0.239 | 82.0 | 181.2 | -1.7 | 0.223 |
| 4-2130 | 4-3170 | 0.555 | 343.4 | -4.9 | 0.93 | 1.291 | 113.1 | 0.723 | 2.936 | 304.0 | 543.9 | 0.812 | 5.059 | -1.49 | 0.239 | 80.0 | 180.8 | -1.6 | 0.225 |
| 4-2130 | 4-3190 | 0.563 | 344.1 | -4.8 | 0.88 | 1.291 | 113.6 | 0.726 | 2.941 | 303.0 | 544.6 | 0.806 | 5.077 | -1.47 | 0.239 | 78.1 | 180.5 | -1.5 | 0.228 |
| 4-2130 | 4-3210 | 0.571 | 344.8 | -4.6 | 0.83 | 1.291 | 114.1 | 0.729 | 2.948 | 301.9 | 545.3 | 0.798 | 5.098 | -1.45 | 0.240 | 76.2 | 180.4 | -1.5 | 0.231 |
| 4-2130 | 4-3230 | 0.580 | 345.5 | -4.5 | 0.78 | 1.292 | 114.6 | 0.732 | 2.956 | 300.8 | 546.0 | 0.791 | 5.120 | -1.42 | 0.241 | 74.3 | 180.3 | -1.4 | 0.235 |
| 4-2130 | 4-3250 | 0.589 | 346.3 | -4.3 | 0.73 | 1.292 | 115.1 | 0.736 | 2.964 | 299.6 | 546.6 | 0.783 | 5.145 | -1.41 | 0.242 | 72.6 | 180.4 | -1.4 | 0.238 |
| 4-2130 | 4-3270 | 0.599 | 347.0 | -4.1 | 0.68 | 1.292 | 115.7 | 0.739 | 2.973 | 298.5 | 547.2 | 0.775 | 5.170 | -1.39 | 0.243 | 70.9 | 180.6 | -1.4 | 0.242 |
| 4-2130 | 4-3290 | 0.608 | 347.8 | -3.9 | 0.64 | 1.293 | 116.2 | 0.743 | 2.982 | 297.3 | 547.8 | 0.767 | 5.197 | -1.37 | 0.244 | 69.2 | 180.8 | -1.3 | 0.245 |
| 4-2130 | 4-3310 | 0.618 | 348.5 | -3.7 | 0.59 | 1.293 | 116.8 | 0.747 | 2.992 | 296.1 | 548.3 | 0.758 | 5.226 | -1.36 | 0.245 | 67.6 | 181.1 | -1.3 | 0.249 |
| 4-2130 | 4-3330 | 0.629 | 349.3 | -3.5 | 0.55 | 1.294 | 117.4 | 0.751 | 3.002 | 294.8 | 548.8 | 0.749 | 5.256 | -1.35 | 0.247 | 66.1 | 181.6 | -1.3 | 0.253 |
| 4-2130 | 4-3350 | 0.639 | 350.0 | -3.3 | 0.51 | 1.294 | 118.0 | 0.755 | 3.013 | 293.6 | 549.3 | 0.740 | 5.287 | -1.33 | 0.248 | 64.5 | 182.1 | -1.3 | 0.257 |
| 4-2130 | 4-3370 | 0.650 | 350.8 | -3.1 | 0.47 | 1.295 | 118.6 | 0.759 | 3.025 | 292.3 | 549.7 | 0.730 | 5.319 | -1.32 | 0.250 | 63.1 | 182.6 | -1.3 | 0.261 |
| 4-2130 | 4-3390 | 0.661 | 351.5 | -2.9 | 0.43 | 1.295 | 119.2 | 0.763 | 3.036 | 291.0 | 550.1 | 0.720 | 5.352 | -1.32 | 0.251 | 61.7 | 183.3 | -1.3 | 0.265 |
| 4-2130 | 4-3410 | 0.673 | 352.2 | -2.6 | 0.39 | 1.296 | 119.9 | 0.767 | 3.048 | 289.6 | 550.5 | 0.709 | 5.387 | -1.31 | 0.253 | 60.3 | 184.0 | -1.3 | 0.270 |
| 4-2130 | 4-3430 | 0.684 | 353.0 | -2.4 | 0.35 | 1.296 | 120.5 | 0.772 | 3.060 | 288.3 | 550.9 | 0.699 | 5.422 | -1.30 | 0.254 | 58.9 | 184.7 | -1.3 | 0.274 |
| 4-2130 | 4-3450 | 0.696 | 353.7 | -2.2 | 0.31 | 1.297 | 121.2 | 0.776 | 3.073 | 286.9 | 551.3 | 0.688 | 5.458 | -1.30 | 0.256 | 57.6 | 185.6 | -1.3 | 0.278 |
| 4-2130 | 4-3470 | 0.709 | 354.5 | -1.9 | 0.27 | 1.297 | 121.9 | 0.781 | 3.086 | 285.5 | 551.6 | 0.677 | 5.495 | -1.30 | 0.257 | 56.3 | 186.4 | -1.3 | 0.282 |
| 4-2130 | 4-3490 | 0.721 | 355.2 | -1.7 | 0.23 | 1.298 | 122.6 | 0.785 | 3.099 | 284.1 | 551.9 | 0.665 | 5.533 | -1.29 | 0.259 | 55.1 | 187.3 | -1.4 | 0.287 |
| 4-2130 | 4-3510 | 0.734 | 356.0 | -1.4 | 0.19 | 1.298 | 123.3 | 0.790 | 3.112 | 282.7 | 552.1 | 0.653 | 5.571 | -1.29 | 0.261 | 53.9 | 188.3 | -1.4 | 0.291 |
| 4-2130 | 4-3530 | 0.747 | 356.7 | -1.2 | 0.15 | 1.299 | 124.0 | 0.795 | 3.126 | 281.2 | 552.4 | 0.641 | 5.610 | -1.29 | 0.262 | 52.7 | 189.3 | -1.4 | 0.295 |
| 4-2130 | 4-3550 | 0.760 | 357.4 | -0.9 | 0.12 | 1.299 | 124.8 | 0.800 | 3.140 | 279.8 | 552.6 | 0.629 | 5.650 | -1.29 | 0.264 | 51.5 | 190.4 | -1.4 | 0.300 |
| 4-2130 | 4-3570 | 0.773 | 358.2 | -0.7 | 0.08 | 1.300 | 125.5 | 0.805 | 3.154 | 278.3 | 552.8 | 0.616 | 5.691 | -1.30 | 0.265 | 50.3 | 191.4 | -1.5 | 0.304 |
| 4-2130 | 4-3590 | 0.787 | 358.9 | -0.4 | 0.04 | 1.300 | 126.3 | 0.809 | 3.168 | 276.8 | 553.0 | 0.604 | 5.732 | -1.30 | 0.267 | 49.2 | 192.6 | -1.5 | 0.309 |
| 4-2130 | 4-3610 | 0.801 | 359.6 | -0.2 | 0.00 | 1.301 | 127.0 | 0.814 | 3.182 | 275.3 | 553.2 | 0.591 | 5.773 | -1.31 | 0.269 | 48.1 | 193.7 | -1.6 | 0.313 |
| 4-2130 | 4-3630 | 0.815 | 0.4 | 0.1 | -0.04 | 1.301 | 127.8 | 0.819 | 3.196 | 273.7 | 553.3 | 0.577 | 5.815 | -1.31 | 0.270 | 47.0 | 194.9 | -1.6 | 0.318 |
| 4-2130 | 4-3650 | 0.829 | 1.1 | 0.4 | -0.08 | 1.302 | 128.6 | 0.824 | 3.211 | 272.2 | 553.5 | 0.564 | 5.858 | -1.32 | 0.272 | 45.9 | 196.1 | -1.7 | 0.322 |
| 4-2130 | 4-3670 | 0.843 | 1.8 | 0.6 | -0.12 | 1.302 | 129.4 | 0.830 | 3.226 | 270.6 | 553.6 | 0.550 | 5.901 | -1.33 | 0.274 | 44.9 | 197.4 | -1.7 | 0.326 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2130 | 4-3690 | 0.858 | 2.5 | 0.9 | -0.16 | 1.303 | 130.2 | 0.835 | 3.240 | 269.1 | 553.6 | 0.536 | 5.945 | -1.34 | 0.275 | 43.8 | 198.6 | -1.8 | 0.331 |
| 4-2130 | 4-3710 | 0.873 | 3.3 | 1.2 | -0.20 | 1.304 | 131.1 | 0.840 | 3.255 | 267.5 | 553.7 | 0.522 | 5.989 | -1.35 | 0.277 | 42.8 | 199.9 | -1.8 | 0.335 |
| 4-2130 | 4-3730 | 0.888 | 4.0 | 1.4 | -0.24 | 1.304 | 131.9 | 0.845 | 3.271 | 265.9 | 553.8 | 0.507 | 6.034 | -1.36 | 0.278 | 41.8 | 201.2 | -1.9 | 0.340 |
| 4-2140 | 4-2540 | 0.644 | 352.5 | -26.5 | -10.20 | 1.412 | 110.9 | 0.9945 | 7.384 | 318.1 | 490.7 | 0.872 | --- | 10.24 | 0.630 | 155.0 | 209.6 | 2.9 | 0.610 |
| 4-2140 | 4-2560 | 0.642 | 356.9 | -32.8 | -13.56 | 1.394 | 109.9 | 0.9501 | 7.596 | 319.0 | 493.5 | 0.880 | --- | 13.57 | 0.589 | 153.3 | 209.5 | 4.8 | 0.570 |
| 4-2140 | 4-2580 | 0.684 | 7.5 | -42.1 | -20.04 | 1.379 | 109.1 | 0.9121 | 0.069 | 319.9 | 496.1 | 0.888 | --- | 20.04 | 0.552 | 151.5 | 208.9 | 8.2 | 0.539 |
| 4-2140 | 4-2600 | 0.896 | 39.1 | -50.5 | -36.78 | 1.366 | 108.2 | 0.879 | 7.394 | 320.9 | 498.7 | 0.895 | --- | 36.76 | 0.518 | 149.7 | 205.5 | 15.7 | 0.537 |
| 4-2140 | 4-2640 | 0.836 | 328.1 | 53.5 | 34.15 | 1.345 | 107.4 | 0.827 | 5.215 | 321.5 | 503.8 | 0.901 | --- | -34.22 | 0.461 | 145.8 | 203.8 | -19.1 | 0.476 |
| 4-2140 | 4-2660 | 0.618 | 327.7 | 33.0 | 19.10 | 1.337 | 106.8 | 0.806 | 4.674 | 322.2 | 506.1 | 0.906 | --- | -19.19 | 0.436 | 143.6 | 207.1 | -13.1 | 0.420 |
| 4-2140 | 4-2680 | 0.543 | 329.3 | 21.9 | 13.06 | 1.330 | 106.4 | 0.788 | 4.292 | 322.7 | 508.4 | 0.910 | --- | -13.17 | 0.413 | 141.5 | 207.7 | -10.1 | 0.389 |
| 4-2140 | 4-2700 | 0.507 | 330.5 | 15.2 | 9.88 | 1.323 | 106.0 | 0.772 | 4.011 | 323.1 | 510.7 | 0.913 | --- | -10.00 | 0.393 | 139.2 | 207.6 | -8.5 | 0.364 |
| 4-2140 | 4-2720 | 0.485 | 331.3 | 10.8 | 7.91 | 1.318 | 105.7 | 0.759 | 3.797 | 323.5 | 512.8 | 0.915 | --- | -8.06 | 0.375 | 136.9 | 207.2 | -7.4 | 0.342 |
| 4-2140 | 4-2740 | 0.471 | 332.0 | 7.7 | 6.59 | 1.314 | 105.4 | 0.748 | 3.631 | 323.7 | 514.8 | 0.917 | --- | -6.76 | 0.358 | 134.5 | 206.6 | -6.7 | 0.324 |
| 4-2140 | 4-2760 | 0.460 | 332.6 | 5.4 | 5.63 | 1.310 | 105.3 | 0.738 | 3.499 | 323.8 | 516.8 | 0.918 | --- | -5.82 | 0.343 | 132.0 | 205.9 | -6.2 | 0.307 |
| 4-2140 | 4-2780 | 0.453 | 333.1 | 3.6 | 4.90 | 1.306 | 105.1 | 0.729 | 3.393 | 323.9 | 518.7 | 0.919 | --- | -5.11 | 0.330 | 129.5 | 204.9 | -5.8 | 0.292 |
| 4-2140 | 4-2800 | 0.447 | 333.6 | 2.2 | 4.33 | 1.303 | 105.0 | 0.722 | 3.307 | 323.9 | 520.5 | 0.919 | --- | -4.57 | 0.318 | 127.0 | 203.9 | -5.4 | 0.278 |
| 4-2140 | 4-2820 | 0.443 | 334.1 | 1.1 | 3.87 | 1.301 | 105.0 | 0.716 | 3.236 | 323.8 | 522.3 | 0.919 | --- | -4.13 | 0.307 | 124.4 | 202.8 | -5.1 | 0.267 |
| 4-2140 | 4-2840 | 0.440 | 334.5 | 0.2 | 3.49 | 1.299 | 105.0 | 0.711 | 3.178 | 323.7 | 524.0 | 0.919 | --- | -3.77 | 0.297 | 121.8 | 201.5 | -4.9 | 0.256 |
| 4-2140 | 4-2860 | 0.438 | 335.0 | -0.6 | 3.17 | 1.297 | 105.0 | 0.707 | 3.131 | 323.5 | 525.6 | 0.918 | --- | -3.47 | 0.289 | 119.2 | 200.2 | -4.6 | 0.247 |
| 4-2140 | 4-2880 | 0.437 | 335.6 | -1.2 | 2.90 | 1.295 | 105.1 | 0.703 | 3.091 | 323.2 | 527.1 | 0.917 | --- | -3.22 | 0.281 | 116.5 | 198.8 | -4.4 | 0.239 |
| 4-2140 | 4-2900 | 0.437 | 336.1 | -1.8 | 2.67 | 1.294 | 105.2 | 0.700 | 3.059 | 322.9 | 528.6 | 0.916 | --- | -3.01 | 0.275 | 113.9 | 197.4 | -4.2 | 0.232 |
| 4-2140 | 4-2920 | 0.438 | 336.7 | -2.2 | 2.46 | 1.293 | 105.3 | 0.698 | 3.032 | 322.5 | 530.0 | 0.915 | --- | -2.82 | 0.269 | 111.3 | 195.9 | -4.0 | 0.226 |
| 4-2140 | 4-2940 | 0.439 | 337.3 | -2.5 | 2.28 | 1.292 | 105.5 | 0.697 | 3.010 | 322.0 | 531.3 | 0.913 | --- | -2.66 | 0.264 | 108.7 | 194.5 | -3.8 | 0.221 |
| 4-2140 | 4-2960 | 0.441 | 337.9 | -2.8 | 2.11 | 1.291 | 105.7 | 0.696 | 2.993 | 321.5 | 532.6 | 0.910 | --- | -2.52 | 0.260 | 106.1 | 193.0 | -3.6 | 0.217 |
| 4-2140 | 4-2980 | 0.443 | 338.6 | -3.1 | 1.97 | 1.290 | 105.9 | 0.695 | 2.979 | 320.9 | 533.9 | 0.908 | --- | -2.40 | 0.256 | 103.6 | 191.6 | -3.4 | 0.214 |
| 4-2140 | 4-3000 | 0.446 | 339.3 | -3.2 | 1.84 | 1.290 | 106.1 | 0.695 | 2.968 | 320.3 | 535.0 | 0.905 | --- | -2.29 | 0.253 | 101.1 | 190.3 | -3.2 | 0.212 |
| 4-2140 | 4-3020 | 0.450 | 340.0 | -3.4 | 1.71 | 1.290 | 106.4 | 0.695 | 2.960 | 319.6 | 536.2 | 0.902 | --- | -2.19 | 0.251 | 98.6 | 189.0 | -3.1 | 0.211 |
| 4-2140 | 4-3040 | 0.454 | 340.7 | -3.4 | 1.60 | 1.289 | 106.7 | 0.696 | 2.954 | 318.9 | 537.3 | 0.899 | --- | -2.10 | 0.249 | 96.2 | 187.8 | -2.9 | 0.210 |
| 4-2140 | 4-3060 | 0.459 | 341.4 | -3.5 | 1.50 | 1.289 | 107.0 | 0.697 | 2.950 | 318.1 | 538.3 | 0.895 | --- | -2.02 | 0.247 | 93.9 | 186.6 | -2.7 | 0.210 |
| 4-2140 | 4-3080 | 0.464 | 342.2 | -3.5 | 1.41 | 1.289 | 107.4 | 0.698 | 2.949 | 317.3 | 539.3 | 0.891 | --- | -1.95 | 0.246 | 91.7 | 185.6 | -2.6 | 0.210 |
| 4-2140 | 4-3100 | 0.469 | 343.0 | -3.5 | 1.32 | 1.289 | 107.7 | 0.699 | 2.949 | 316.5 | 540.2 | 0.887 | 5.010 | -1.89 | 0.245 | 89.5 | 184.7 | -2.5 | 0.211 |
| 4-2140 | 4-3120 | 0.475 | 343.8 | -3.5 | 1.24 | 1.289 | 108.1 | 0.701 | 2.950 | 315.6 | 541.1 | 0.882 | 5.018 | -1.83 | 0.244 | 87.4 | 184.0 | -2.3 | 0.212 |
| 4-2140 | 4-3140 | 0.481 | 344.6 | -3.4 | 1.16 | 1.289 | 108.5 | 0.703 | 2.952 | 314.7 | 542.0 | 0.877 | 5.028 | -1.77 | 0.244 | 85.3 | 183.3 | -2.2 | 0.214 |
| 4-2140 | 4-3160 | 0.487 | 345.4 | -3.3 | 1.09 | 1.289 | 108.9 | 0.705 | 2.956 | 313.7 | 542.8 | 0.872 | 5.040 | -1.73 | 0.244 | 83.3 | 182.8 | -2.1 | 0.216 |
| 4-2140 | 4-3180 | 0.494 | 346.2 | -3.2 | 1.02 | 1.290 | 109.3 | 0.707 | 2.961 | 312.7 | 543.6 | 0.867 | 5.055 | -1.68 | 0.245 | 81.4 | 182.4 | -2.0 | 0.218 |
| 4-2140 | 4-3200 | 0.502 | 347.0 | -3.1 | 0.95 | 1.290 | 109.8 | 0.710 | 2.967 | 311.7 | 544.4 | 0.861 | 5.073 | -1.64 | 0.245 | 79.5 | 182.1 | -1.9 | 0.220 |
| 4-2140 | 4-3220 | 0.509 | 347.8 | -2.9 | 0.89 | 1.290 | 110.3 | 0.713 | 2.973 | 310.7 | 545.1 | 0.855 | 5.092 | -1.60 | 0.246 | 77.7 | 181.9 | -1.8 | 0.223 |
| 4-2140 | 4-3240 | 0.517 | 348.6 | -2.8 | 0.83 | 1.290 | 110.7 | 0.715 | 2.981 | 309.6 | 545.8 | 0.849 | 5.113 | -1.57 | 0.246 | 76.0 | 181.8 | -1.8 | 0.226 |
| 4-2140 | 4-3260 | 0.525 | 349.5 | -2.6 | 0.77 | 1.291 | 111.2 | 0.718 | 2.989 | 308.5 | 546.4 | 0.842 | 5.136 | -1.54 | 0.247 | 74.3 | 181.8 | -1.7 | 0.229 |
| 4-2140 | 4-3280 | 0.534 | 350.3 | -2.4 | 0.72 | 1.291 | 111.7 | 0.721 | 2.998 | 307.4 | 547.1 | 0.835 | 5.160 | -1.51 | 0.248 | 72.7 | 181.9 | -1.6 | 0.232 |
| 4-2140 | 4-3300 | 0.543 | 351.1 | -2.2 | 0.67 | 1.292 | 112.3 | 0.725 | 3.007 | 306.2 | 547.7 | 0.828 | 5.186 | -1.49 | 0.249 | 71.1 | 182.1 | -1.6 | 0.236 |
| 4-2140 | 4-3320 | 0.552 | 351.9 | -2.0 | 0.61 | 1.292 | 112.8 | 0.728 | 3.017 | 305.0 | 548.2 | 0.820 | 5.213 | -1.46 | 0.250 | 69.6 | 182.4 | -1.6 | 0.239 |
| 4-2140 | 4-3340 | 0.561 | 352.8 | -1.8 | 0.57 | 1.292 | 113.4 | 0.732 | 3.027 | 303.8 | 548.8 | 0.812 | 5.241 | -1.44 | 0.252 | 68.1 | 182.8 | -1.5 | 0.243 |
| 4-2140 | 4-3360 | 0.571 | 353.6 | -1.6 | 0.52 | 1.293 | 113.9 | 0.735 | 3.038 | 302.6 | 549.3 | 0.804 | 5.271 | -1.42 | 0.253 | 66.7 | 183.2 | -1.5 | 0.247 |
| 4-2140 | 4-3380 | 0.581 | 354.4 | -1.4 | 0.47 | 1.293 | 114.5 | 0.739 | 3.049 | 301.3 | 549.8 | 0.796 | 5.302 | -1.40 | 0.254 | 65.3 | 183.8 | -1.5 | 0.250 |
| 4-2140 | 4-3400 | 0.591 | 355.2 | -1.1 | 0.43 | 1.294 | 115.1 | 0.743 | 3.060 | 300.1 | 550.2 | 0.787 | 5.333 | -1.39 | 0.256 | 63.9 | 184.3 | -1.5 | 0.254 |
| 4-2140 | 4-3420 | 0.602 | 356.0 | -0.9 | 0.38 | 1.294 | 115.7 | 0.747 | 3.072 | 298.8 | 550.7 | 0.778 | 5.366 | -1.37 | 0.257 | 62.6 | 185.0 | -1.5 | 0.258 |
| 4-2140 | 4-3440 | 0.612 | 356.9 | -0.7 | 0.34 | 1.295 | 116.3 | 0.751 | 3.084 | 297.5 | 551.1 | 0.769 | 5.400 | -1.36 | 0.259 | 61.3 | 185.7 | -1.5 | 0.262 |
| 4-2140 | 4-3460 | 0.623 | 357.7 | -0.4 | 0.30 | 1.295 | 117.0 | 0.755 | 3.097 | 296.1 | 551.4 | 0.759 | 5.434 | -1.35 | 0.260 | 60.1 | 186.5 | -1.5 | 0.266 |
| 4-2140 | 4-3480 | 0.635 | 358.5 | -0.2 | 0.26 | 1.296 | 117.6 | 0.759 | 3.109 | 294.8 | 551.8 | 0.749 | 5.469 | -1.34 | 0.262 | 58.9 | 187.3 | -1.5 | 0.270 |
| 4-2140 | 4-3500 | 0.646 | 359.3 | 0.1 | 0.22 | 1.296 | 118.3 | 0.763 | 3.122 | 293.4 | 552.1 | 0.739 | 5.505 | -1.33 | 0.263 | 57.7 | 188.2 | -1.5 | 0.274 |
| 4-2140 | 4-3520 | 0.658 | 0.0 | 0.4 | 0.18 | 1.297 | 118.9 | 0.768 | 3.135 | 292.0 | 552.5 | 0.728 | 5.542 | -1.32 | 0.265 | 56.5 | 189.1 | -1.5 | 0.278 |
| 4-2140 | 4-3540 | 0.670 | 0.8 | 0.6 | 0.14 | 1.297 | 119.6 | 0.772 | 3.149 | 290.6 | 552.8 | 0.718 | 5.580 | -1.32 | 0.266 | 55.4 | 190.1 | -1.6 | 0.282 |
| 4-2140 | 4-3560 | 0.682 | 1.6 | 0.9 | 0.10 | 1.298 | 120.3 | 0.777 | 3.162 | 289.2 | 553.0 | 0.707 | 5.618 | -1.31 | 0.268 | 54.3 | 191.1 | -1.6 | 0.286 |
| 4-2140 | 4-3580 | 0.694 | 2.4 | 1.1 | 0.06 | 1.298 | 121.0 | 0.781 | 3.176 | 287.8 | 553.3 | 0.695 | 5.657 | -1.31 | 0.269 | 53.2 | 192.1 | -1.6 | 0.290 |
| 4-2140 | 4-3600 | 0.707 | 3.2 | 1.4 | 0.02 | 1.299 | 121.7 | 0.786 | 3.190 | 286.3 | 553.5 | 0.684 | 5.696 | -1.31 | 0.271 | 52.1 | 193.2 | -1.6 | 0.294 |
| 4-2140 | 4-3620 | 0.720 | 4.0 | 1.7 | -0.02 | 1.299 | 122.4 | 0.790 | 3.204 | 284.9 | 553.7 | 0.672 | 5.736 | -1.30 | 0.272 | 51.1 | 194.3 | -1.7 | 0.299 |
| 4-2140 | 4-3640 | 0.733 | 4.7 | 2.0 | -0.06 | 1.300 | 123.1 | 0.795 | 3.218 | 283.4 | 553.9 | 0.660 | 5.777 | -1.30 | 0.274 | 50.0 | 195.4 | -1.7 | 0.303 |
| 4-2140 | 4-3660 | 0.746 | 5.5 | 2.2 | -0.09 | 1.301 | 123.9 | 0.800 | 3.233 | 281.9 | 554.1 | 0.647 | 5.818 | -1.31 | 0.275 | 49.0 | 196.6 | -1.8 | 0.307 |
| 4-2140 | 4-3680 | 0.760 | 6.2 | 2.5 | -0.13 | 1.301 | 124.6 | 0.805 | 3.247 | 280.4 | 554.3 | 0.634 | 5.860 | -1.31 | 0.277 | 48.0 | 197.8 | -1.8 | 0.311 |
| 4-2140 | 4-3700 | 0.773 | 7.0 | 2.8 | -0.17 | 1.302 | 125.4 | 0.809 | 3.262 | 278.9 | 554.4 | 0.621 | 5.902 | -1.31 | 0.278 | 47.0 | 199.0 | -1.8 | 0.315 |
| 4-2140 | 4-3720 | 0.787 | 7.8 | 3.0 | -0.21 | 1.302 | 126.2 | 0.814 | 3.276 | 277.3 | 554.5 | 0.608 | 5.945 | -1.31 | 0.280 | 46.0 | 200.3 | -1.9 | 0.319 |
| 4-2140 | 4-3740 | 0.801 | 8.5 | 3.3 | -0.25 | 1.303 | 127.0 | 0.819 | 3.291 | 275.8 | 554.6 | 0.595 | 5.988 | -1.32 | 0.281 | 45.1 | 201.6 | -1.9 | 0.323 |
| 4-2150 | 4-2510 | 0.626 | 349.2 | -13.8 | -3.81 | 1.455 | 109.1 | 1.109 | -8.275 | 323.7 | 483.8 | 0.900 | --- | 3.76 | 0.724 | 157.4 | 210.5 | -0.1 | 0.698 |
| 4-2150 | 4-2530 | 0.591 | 349.0 | -15.3 | -4.19 | 1.430 | 108.0 | 1.0452 | 0.150 | 324.8 | 486.7 | 0.909 | --- | 4.13 | 0.673 | 155.9 | 210.8 | 0.2 | 0.646 |
| 4-2150 | 4-2550 | 0.562 | 348.8 | -17.0 | -4.67 | 1.409 | 107.0 | 0.9910 | 4.818 | 325.8 | 489.6 | 0.916 | --- | 4.58 | 0.628 | 154.3 | 211.0 | 0.5 | 0.599 |
| 4-2150 | 4-2570 | 0.537 | 348.9 | -19.1 | -5.26 | 1.391 | 106.1 | 0.9451 | 6.911 | 326.8 | 492.4 | 0.923 | --- | 5.15 | 0.587 | 152.6 | 211.2 | 0.9 | 0.558 |
| 4-2150 | 4-2590 | 0.518 | 349.3 | -21.6 | -6.01 | 1.376 | 105.3 | 0.906 | 9.912 | 327.7 | 495.1 | 0.929 | --- | 5.88 | 0.550 | 150.8 | 211.3 | 1.4 | 0.520 |
| 4-2150 | 4-2610 | 0.503 | 350.2 | -24.6 | -7.02 | 1.363 | 104.6 | 0.873 | 7.342 | 328.6 | 497.8 | 0.934 | --- | 6.87 | 0.517 | 148.9 | 211.2 | 2.2 | 0.486 |
| 4-2150 | 4-2630 | 0.496 | 351.8 | -28.5 | -8.43 | 1.352 | 104.0 | 0.844 | 6.017 | 329.3 | 500.4 | 0.938 | --- | 8.26 | 0.488 | 147.0 | 211.1 | 3.2 | 0.456 |
| 4-2150 | 4-2650 | 0.498 | 355.0 | -33.8 | -10.56 | 1.343 | 103.5 | 0.819 | 5.215 | 330.0 | 502.9 | 0.942 | --- | 10.37 | 0.461 | 145.0 | 210.8 | 4.8 | 0.429 |
| 4-2150 | 4-2670 | 0.520 | 1.4 | -41.1 | -14.12 | 1.335 | 103.0 | 0.798 | 4.682 | 330.7 | 505.4 | 0.946 | --- | 13.91 | 0.436 | 142.9 | 210.1 | 7.4 | 0.408 |
| 4-2150 | 4-2690 | 0.598 | 17.1 | -50.8 | -21.21 | 1.328 | 102.5 | 0.780 | 4.305 | 331.3 | 507.7 | 0.949 | --- | 20.98 | 0.414 | 140.7 | 208.7 | 12.3 | 0.396 |
| 4-2150 | 4-2710 | 0.892 | 59.3 | -54.1 | -40.64 | 1.322 | 102.1 | 0.764 | 4.027 | 331.9 | 510.0 | 0.952 | --- | 40.39 | 0.394 | 138.4 | 203.4 | 22.2 | 0.427 |
| 4-2150 | 4-2730 | 1.444 | 80.8 | 82.8 | 75.28 | 1.316 | 102.4 | 0.751 | 3.815 | 330.9 | 512.2 | 0.948 | --- | -75.55 | 0.376 | 136.3 | 188.4 | -28.3 | 0.540 |
| 4-2150 | 4-2750 | 0.718 | 320.6 | 56.2 | 30.33 | 1.312 | 102.0 | 0.739 | 3.649 | 331.8 | 514.3 | 0.952 | --- | -30.62 | 0.360 | 133.8 | 202.6 | -22.4 | 0.366 |
| 4-2150 | 4-2770 | 0.527 | 324.4 | 36.2 | 17.46 | 1.308 | 101.7 | 0.729 | 3.518 | 332.1 | 516.3 | 0.953 | --- | -17.77 | 0.345 | 131.4 | 205.2 | -15.7 | 0.319 |
| 4-2150 | 4-2790 | 0.461 | 327.3 | 24.8 | 12.08 | 1.305 | 101.6 | 0.720 | 3.413 | 332.2 | 518.2 | 0.954 | --- | -12.41 | 0.332 | 128.9 | 205.2 | -12.1 | 0.296 |
| 4-2150 | 4-2810 | 0.431 | 329.3 | 17.6 | 9.16 | 1.302 | 101.5 | 0.713 | 3.327 | 332.3 | 520.0 | 0.955 | --- | -9.52 | 0.321 | 126.4 | 204.6 | -10.1 | 0.279 |
| 4-2150 | 4-2830 | 0.415 | 330.8 | 12.8 | 7.35 | 1.299 | 101.4 | 0.707 | 3.257 | 332.3 | 521.8 | 0.955 | --- | -7.72 | 0.310 | 123.9 | 203.7 | -8.7 | 0.266 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2150 | 4-2850 | 0.405 | 332.1 | 9.4 | 6.10 | 1.297 | 101.4 | 0.702 | 3.200 | 332.1 | 523.5 | 0.955 | --- | -6.50 | 0.301 | 121.3 | 202.6 | -7.7 | 0.254 |
| 4-2150 | 4-2870 | 0.400 | 333.1 | 6.8 | 5.20 | 1.295 | 101.5 | 0.697 | 3.152 | 331.9 | 525.1 | 0.954 | --- | -5.61 | 0.292 | 118.8 | 201.4 | -7.0 | 0.245 |
| 4-2150 | 4-2890 | 0.396 | 334.1 | 4.9 | 4.51 | 1.294 | 101.5 | 0.694 | 3.113 | 331.7 | 526.7 | 0.953 | --- | -4.95 | 0.285 | 116.2 | 200.1 | -6.4 | 0.236 |
| 4-2150 | 4-2910 | 0.394 | 335.0 | 3.4 | 3.97 | 1.292 | 101.6 | 0.691 | 3.080 | 331.4 | 528.2 | 0.952 | --- | -4.42 | 0.279 | 113.6 | 198.7 | -5.9 | 0.229 |
| 4-2150 | 4-2930 | 0.393 | 335.9 | 2.2 | 3.53 | 1.291 | 101.8 | 0.689 | 3.054 | 331.0 | 529.6 | 0.951 | --- | -4.01 | 0.273 | 111.1 | 197.3 | -5.5 | 0.223 |
| 4-2150 | 4-2950 | 0.393 | 336.8 | 1.3 | 3.17 | 1.290 | 101.9 | 0.687 | 3.032 | 330.5 | 531.0 | 0.950 | --- | -3.66 | 0.268 | 108.6 | 195.8 | -5.1 | 0.218 |
| 4-2150 | 4-2970 | 0.394 | 337.6 | 0.5 | 2.86 | 1.290 | 102.1 | 0.686 | 3.015 | 330.0 | 532.3 | 0.948 | --- | -3.38 | 0.264 | 106.1 | 194.4 | -4.8 | 0.214 |
| 4-2150 | 4-2990 | 0.396 | 338.5 | -0.1 | 2.60 | 1.289 | 102.3 | 0.685 | 3.001 | 329.5 | 533.5 | 0.946 | --- | -3.14 | 0.261 | 103.6 | 193.0 | -4.5 | 0.211 |
| 4-2150 | 4-3010 | 0.398 | 339.4 | -0.6 | 2.37 | 1.289 | 102.6 | 0.684 | 2.990 | 328.9 | 534.7 | 0.944 | --- | -2.93 | 0.258 | 101.2 | 191.7 | -4.2 | 0.208 |
| 4-2150 | 4-3030 | 0.401 | 340.3 | -0.9 | 2.17 | 1.288 | 102.8 | 0.684 | 2.982 | 328.2 | 535.8 | 0.941 | --- | -2.75 | 0.255 | 98.9 | 190.4 | -3.9 | 0.206 |
| 4-2150 | 4-3050 | 0.404 | 341.2 | -1.2 | 2.00 | 1.288 | 103.1 | 0.685 | 2.976 | 327.5 | 536.9 | 0.939 | --- | -2.60 | 0.253 | 96.6 | 189.2 | -3.7 | 0.205 |
| 4-2150 | 4-3070 | 0.408 | 342.1 | -1.5 | 1.84 | 1.288 | 103.4 | 0.685 | 2.973 | 326.8 | 538.0 | 0.936 | --- | -2.46 | 0.252 | 94.4 | 188.1 | -3.5 | 0.205 |
| 4-2150 | 4-3090 | 0.412 | 343.1 | -1.6 | 1.70 | 1.288 | 103.8 | 0.686 | 2.971 | 326.0 | 539.0 | 0.933 | --- | -2.34 | 0.251 | 92.2 | 187.1 | -3.2 | 0.205 |
| 4-2150 | 4-3110 | 0.416 | 344.0 | -1.7 | 1.57 | 1.288 | 104.1 | 0.687 | 2.971 | 325.1 | 540.0 | 0.929 | --- | -2.24 | 0.250 | 90.1 | 186.2 | -3.1 | 0.206 |
| 4-2150 | 4-3130 | 0.421 | 344.9 | -1.8 | 1.45 | 1.288 | 104.5 | 0.689 | 2.972 | 324.3 | 540.9 | 0.926 | 5.019 | -2.14 | 0.249 | 88.1 | 185.4 | -2.9 | 0.207 |
| 4-2150 | 4-3150 | 0.427 | 345.9 | -1.8 | 1.35 | 1.288 | 104.8 | 0.690 | 2.975 | 323.4 | 541.8 | 0.922 | 5.028 | -2.06 | 0.249 | 86.1 | 184.7 | -2.7 | 0.208 |
| 4-2150 | 4-3170 | 0.432 | 346.9 | -1.7 | 1.25 | 1.288 | 105.2 | 0.692 | 2.979 | 322.4 | 542.6 | 0.918 | 5.040 | -1.98 | 0.249 | 84.2 | 184.2 | -2.6 | 0.210 |
| 4-2150 | 4-3190 | 0.438 | 347.8 | -1.7 | 1.16 | 1.288 | 105.7 | 0.694 | 2.984 | 321.5 | 543.4 | 0.913 | 5.054 | -1.91 | 0.249 | 82.4 | 183.7 | -2.4 | 0.212 |
| 4-2150 | 4-3210 | 0.445 | 348.8 | -1.6 | 1.07 | 1.289 | 106.1 | 0.696 | 2.989 | 320.5 | 544.2 | 0.908 | 5.070 | -1.85 | 0.250 | 80.6 | 183.4 | -2.3 | 0.214 |
| 4-2150 | 4-3230 | 0.452 | 349.7 | -1.5 | 0.99 | 1.289 | 106.5 | 0.698 | 2.996 | 319.5 | 544.9 | 0.904 | 5.089 | -1.79 | 0.250 | 78.9 | 183.2 | -2.2 | 0.216 |
| 4-2150 | 4-3250 | 0.459 | 350.7 | -1.3 | 0.92 | 1.289 | 107.0 | 0.701 | 3.003 | 318.4 | 545.6 | 0.898 | 5.109 | -1.74 | 0.251 | 77.2 | 183.1 | -2.1 | 0.219 |
| 4-2150 | 4-3270 | 0.466 | 351.6 | -1.2 | 0.84 | 1.290 | 107.5 | 0.704 | 3.012 | 317.3 | 546.3 | 0.893 | 5.130 | -1.69 | 0.252 | 75.6 | 183.1 | -2.0 | 0.222 |
| 4-2150 | 4-3290 | 0.474 | 352.6 | -1.0 | 0.78 | 1.290 | 107.9 | 0.706 | 3.020 | 316.2 | 547.0 | 0.887 | 5.153 | -1.65 | 0.253 | 74.0 | 183.1 | -2.0 | 0.225 |
| 4-2150 | 4-3310 | 0.482 | 353.6 | -0.8 | 0.71 | 1.290 | 108.4 | 0.709 | 3.030 | 315.1 | 547.6 | 0.881 | 5.178 | -1.61 | 0.254 | 72.5 | 183.3 | -1.9 | 0.228 |
| 4-2150 | 4-3330 | 0.490 | 354.5 | -0.6 | 0.65 | 1.291 | 108.9 | 0.712 | 3.039 | 313.9 | 548.2 | 0.875 | 5.204 | -1.57 | 0.255 | 71.1 | 183.6 | -1.8 | 0.231 |
| 4-2150 | 4-3350 | 0.498 | 355.4 | -0.4 | 0.60 | 1.291 | 109.5 | 0.715 | 3.050 | 312.7 | 548.7 | 0.868 | 5.231 | -1.54 | 0.256 | 69.7 | 183.9 | -1.8 | 0.235 |
| 4-2150 | 4-3370 | 0.507 | 356.4 | -0.2 | 0.54 | 1.292 | 110.0 | 0.719 | 3.060 | 311.5 | 549.3 | 0.861 | 5.259 | -1.51 | 0.257 | 68.3 | 184.3 | -1.8 | 0.238 |
| 4-2150 | 4-3390 | 0.516 | 357.3 | 0.1 | 0.49 | 1.292 | 110.6 | 0.722 | 3.071 | 310.3 | 549.8 | 0.854 | 5.288 | -1.48 | 0.259 | 67.0 | 184.8 | -1.7 | 0.242 |
| 4-2150 | 4-3410 | 0.525 | 358.2 | 0.3 | 0.44 | 1.293 | 111.1 | 0.725 | 3.083 | 309.1 | 550.3 | 0.847 | 5.319 | -1.46 | 0.260 | 65.7 | 185.4 | -1.7 | 0.245 |
| 4-2150 | 4-3430 | 0.535 | 359.1 | 0.6 | 0.39 | 1.293 | 111.7 | 0.729 | 3.095 | 307.8 | 550.7 | 0.839 | 5.350 | -1.44 | 0.261 | 64.5 | 186.0 | -1.7 | 0.249 |
| 4-2150 | 4-3450 | 0.545 | 0.0 | 0.8 | 0.34 | 1.294 | 112.3 | 0.732 | 3.107 | 306.6 | 551.2 | 0.831 | 5.382 | -1.41 | 0.263 | 63.3 | 186.7 | -1.7 | 0.252 |
| 4-2150 | 4-3470 | 0.555 | 0.9 | 1.1 | 0.29 | 1.294 | 112.9 | 0.736 | 3.119 | 305.3 | 551.6 | 0.823 | 5.415 | -1.40 | 0.264 | 62.1 | 187.4 | -1.7 | 0.256 |
| 4-2150 | 4-3490 | 0.565 | 1.8 | 1.4 | 0.25 | 1.295 | 113.5 | 0.740 | 3.132 | 303.9 | 552.0 | 0.814 | 5.449 | -1.38 | 0.265 | 60.9 | 188.2 | -1.7 | 0.260 |
| 4-2150 | 4-3510 | 0.576 | 2.7 | 1.6 | 0.20 | 1.295 | 114.1 | 0.744 | 3.145 | 302.6 | 552.4 | 0.805 | 5.484 | -1.36 | 0.267 | 59.8 | 189.0 | -1.7 | 0.263 |
| 4-2150 | 4-3530 | 0.587 | 3.6 | 1.9 | 0.16 | 1.296 | 114.7 | 0.748 | 3.158 | 301.3 | 552.7 | 0.796 | 5.519 | -1.35 | 0.268 | 58.7 | 189.9 | -1.7 | 0.267 |
| 4-2150 | 4-3550 | 0.598 | 4.5 | 2.2 | 0.12 | 1.296 | 115.4 | 0.752 | 3.171 | 299.9 | 553.0 | 0.787 | 5.555 | -1.34 | 0.270 | 57.6 | 190.8 | -1.7 | 0.271 |
| 4-2150 | 4-3570 | 0.609 | 5.3 | 2.5 | 0.08 | 1.297 | 116.0 | 0.756 | 3.184 | 298.5 | 553.3 | 0.777 | 5.592 | -1.32 | 0.271 | 56.6 | 191.8 | -1.7 | 0.275 |
| 4-2150 | 4-3590 | 0.620 | 6.2 | 2.7 | 0.04 | 1.297 | 116.7 | 0.760 | 3.198 | 297.1 | 553.6 | 0.767 | 5.629 | -1.31 | 0.273 | 55.5 | 192.8 | -1.7 | 0.278 |
| 4-2150 | 4-3610 | 0.632 | 7.0 | 3.0 | 0.00 | 1.298 | 117.3 | 0.764 | 3.212 | 295.7 | 553.9 | 0.757 | 5.667 | -1.31 | 0.274 | 54.5 | 193.9 | -1.8 | 0.282 |
| 4-2150 | 4-3630 | 0.644 | 7.8 | 3.3 | -0.04 | 1.298 | 118.0 | 0.769 | 3.226 | 294.3 | 554.2 | 0.746 | 5.705 | -1.30 | 0.276 | 53.5 | 194.9 | -1.8 | 0.286 |
| 4-2150 | 4-3650 | 0.656 | 8.7 | 3.6 | -0.08 | 1.299 | 118.7 | 0.773 | 3.240 | 292.9 | 554.4 | 0.735 | 5.745 | -1.29 | 0.277 | 52.6 | 196.0 | -1.8 | 0.290 |
| 4-2150 | 4-3670 | 0.668 | 9.5 | 3.9 | -0.11 | 1.299 | 119.4 | 0.777 | 3.254 | 291.4 | 554.6 | 0.724 | 5.784 | -1.29 | 0.279 | 51.6 | 197.2 | -1.9 | 0.294 |
| 4-2150 | 4-3690 | 0.681 | 10.3 | 4.2 | -0.15 | 1.300 | 120.1 | 0.782 | 3.268 | 290.0 | 554.8 | 0.713 | 5.824 | -1.28 | 0.280 | 50.7 | 198.3 | -1.9 | 0.297 |
| 4-2150 | 4-3710 | 0.693 | 11.1 | 4.5 | -0.19 | 1.300 | 120.8 | 0.786 | 3.283 | 288.5 | 555.0 | 0.701 | 5.865 | -1.28 | 0.281 | 49.7 | 199.5 | -1.9 | 0.301 |
| 4-2150 | 4-3730 | 0.706 | 11.9 | 4.7 | -0.23 | 1.301 | 121.6 | 0.791 | 3.298 | 287.0 | 555.2 | 0.689 | 5.906 | -1.28 | 0.283 | 48.8 | 200.7 | -2.0 | 0.305 |
| 4-2150 | 4-3750 | 0.719 | 12.7 | 5.0 | -0.26 | 1.301 | 122.3 | 0.796 | 3.312 | 285.5 | 555.3 | 0.677 | 5.947 | -1.28 | 0.284 | 47.9 | 202.0 | -2.0 | 0.309 |
| 4-2160 | 4-2480 | 0.650 | 350.9 | -9.7 | -2.40 | 1.513 | 107.3 | 1.276 | -3.352 | 329.2 | 476.8 | 0.926 | --- | 2.27 | 0.838 | 159.5 | 211.0 | -0.8 | 0.808 |
| 4-2160 | 4-2500 | 0.604 | 350.1 | -10.8 | -2.54 | 1.478 | 106.1 | 1.183 | -5.110 | 330.4 | 479.8 | 0.934 | --- | 2.39 | 0.774 | 158.1 | 211.4 | -0.7 | 0.743 |
| 4-2160 | 4-2520 | 0.565 | 349.3 | -11.9 | -2.70 | 1.450 | 104.9 | 1.105 | -8.964 | 331.6 | 482.9 | 0.942 | --- | 2.53 | 0.718 | 156.7 | 211.7 | -0.6 | 0.686 |
| 4-2160 | 4-2540 | 0.532 | 348.6 | -13.1 | -2.88 | 1.425 | 103.9 | 1.040 | 23.781 | 332.8 | 485.9 | 0.949 | --- | 2.69 | 0.668 | 155.1 | 212.0 | -0.4 | 0.635 |
| 4-2160 | 4-2560 | 0.504 | 347.9 | -14.3 | -3.08 | 1.405 | 103.0 | 0.985 | 63.605 | 333.9 | 488.8 | 0.954 | --- | 2.87 | 0.623 | 153.5 | 212.2 | -0.3 | 0.589 |
| 4-2160 | 4-2580 | 0.480 | 347.2 | -15.7 | -3.31 | 1.388 | 102.1 | 0.938 | 15.591 | 334.9 | 491.7 | 0.959 | --- | 3.08 | 0.583 | 151.8 | 212.3 | -0.1 | 0.548 |
| 4-2160 | 4-2600 | 0.459 | 346.7 | -17.1 | -3.58 | 1.373 | 101.4 | 0.899 | 9.532 | 335.9 | 494.5 | 0.964 | --- | 3.33 | 0.547 | 150.0 | 212.4 | 0.1 | 0.511 |
| 4-2160 | 4-2620 | 0.442 | 346.3 | -18.7 | -3.90 | 1.360 | 100.7 | 0.865 | 7.174 | 336.8 | 497.3 | 0.968 | --- | 3.63 | 0.514 | 148.2 | 212.4 | 0.4 | 0.477 |
| 4-2160 | 4-2640 | 0.428 | 346.1 | -20.5 | -4.28 | 1.349 | 100.2 | 0.836 | 5.929 | 337.7 | 499.9 | 0.971 | --- | 3.99 | 0.485 | 146.2 | 212.2 | 0.8 | 0.447 |
| 4-2160 | 4-2660 | 0.417 | 346.1 | -22.5 | -4.74 | 1.340 | 99.7 | 0.811 | 5.165 | 338.4 | 502.5 | 0.974 | --- | 4.43 | 0.459 | 144.2 | 212.0 | 1.2 | 0.419 |
| 4-2160 | 4-2680 | 0.408 | 346.5 | -24.7 | -5.33 | 1.332 | 99.2 | 0.790 | 4.652 | 339.1 | 505.0 | 0.976 | --- | 5.00 | 0.435 | 142.1 | 211.7 | 1.8 | 0.394 |
| 4-2160 | 4-2700 | 0.403 | 347.2 | -27.4 | -6.08 | 1.325 | 98.9 | 0.772 | 4.288 | 339.6 | 507.4 | 0.978 | --- | 5.73 | 0.413 | 140.0 | 211.3 | 2.5 | 0.371 |
| 4-2160 | 4-2720 | 0.401 | 348.6 | -30.7 | -7.09 | 1.319 | 98.6 | 0.756 | 4.018 | 340.1 | 509.7 | 0.979 | --- | 6.72 | 0.394 | 137.7 | 210.7 | 3.5 | 0.351 |
| 4-2160 | 4-2740 | 0.405 | 351.0 | -35.0 | -8.51 | 1.314 | 98.3 | 0.743 | 3.812 | 340.5 | 511.9 | 0.981 | --- | 8.13 | 0.376 | 135.4 | 210.0 | 4.9 | 0.333 |
| 4-2160 | 4-2760 | 0.420 | 355.3 | -40.7 | -10.70 | 1.310 | 98.1 | 0.731 | 3.651 | 340.8 | 514.0 | 0.982 | --- | 10.29 | 0.360 | 133.1 | 209.2 | 7.0 | 0.318 |
| 4-2160 | 4-2780 | 0.457 | 4.0 | -48.5 | -14.43 | 1.306 | 97.9 | 0.721 | 3.523 | 341.0 | 516.0 | 0.982 | --- | 14.00 | 0.346 | 130.7 | 208.0 | 10.5 | 0.308 |
| 4-2160 | 4-2800 | 0.561 | 25.7 | -57.8 | -22.18 | 1.303 | 97.8 | 0.713 | 3.420 | 341.2 | 518.0 | 0.983 | --- | 21.73 | 0.333 | 128.2 | 205.9 | 16.9 | 0.311 |
| 4-2160 | 4-2820 | 0.939 | 77.8 | -55.2 | -45.31 | 1.300 | 97.6 | 0.705 | 3.336 | 341.5 | 519.8 | 0.984 | --- | 44.85 | 0.322 | 125.7 | 199.1 | 28.3 | 0.377 |
| 4-2160 | 4-2840 | 1.233 | 218.7 | 87.2 | 63.05 | 1.297 | 98.1 | 0.700 | 3.268 | 340.2 | 521.6 | 0.981 | --- | -63.53 | 0.311 | 123.3 | 189.6 | -32.0 | 0.446 |
| 4-2160 | 4-2860 | 0.617 | 314.4 | 54.8 | 26.07 | 1.295 | 97.9 | 0.694 | 3.211 | 340.6 | 523.3 | 0.982 | --- | -26.57 | 0.302 | 120.8 | 199.4 | -24.3 | 0.294 |
| 4-2160 | 4-2880 | 0.460 | 321.8 | 36.2 | 15.43 | 1.294 | 97.9 | 0.690 | 3.165 | 340.5 | 524.9 | 0.982 | --- | -15.96 | 0.294 | 118.2 | 200.7 | -17.2 | 0.257 |
| 4-2160 | 4-2900 | 0.406 | 325.9 | 25.0 | 10.79 | 1.292 | 98.0 | 0.686 | 3.126 | 340.3 | 526.5 | 0.981 | --- | -11.33 | 0.287 | 115.7 | 200.2 | -13.3 | 0.241 |
| 4-2160 | 4-2920 | 0.381 | 328.7 | 17.9 | 8.22 | 1.291 | 98.1 | 0.683 | 3.095 | 340.0 | 528.0 | 0.981 | --- | -8.78 | 0.281 | 113.2 | 199.2 | -10.9 | 0.230 |
| 4-2160 | 4-2940 | 0.369 | 330.8 | 13.1 | 6.58 | 1.290 | 98.2 | 0.681 | 3.069 | 339.6 | 529.4 | 0.980 | --- | -7.17 | 0.276 | 110.7 | 198.0 | -9.3 | 0.222 |
| 4-2160 | 4-2960 | 0.363 | 332.6 | 9.6 | 5.46 | 1.289 | 98.4 | 0.679 | 3.048 | 339.2 | 530.8 | 0.979 | --- | -6.06 | 0.271 | 108.3 | 196.6 | -8.1 | 0.217 |
| 4-2160 | 4-2980 | 0.360 | 334.1 | 7.1 | 4.63 | 1.288 | 98.6 | 0.677 | 3.031 | 338.7 | 532.1 | 0.978 | --- | -5.25 | 0.267 | 105.8 | 195.3 | -7.2 | 0.212 |
| 4-2160 | 4-3000 | 0.359 | 335.6 | 5.2 | 4.00 | 1.288 | 98.8 | 0.676 | 3.017 | 338.2 | 533.3 | 0.976 | --- | -4.64 | 0.264 | 103.5 | 194.0 | -6.5 | 0.208 |
| 4-2160 | 4-3020 | 0.359 | 336.9 | 3.8 | 3.50 | 1.287 | 99.0 | 0.676 | 3.007 | 337.6 | 534.5 | 0.975 | --- | -4.16 | 0.261 | 101.1 | 192.7 | -5.9 | 0.205 |
| 4-2160 | 4-3040 | 0.360 | 338.2 | 2.7 | 3.09 | 1.287 | 99.3 | 0.676 | 2.999 | 336.9 | 535.7 | 0.973 | --- | -3.77 | 0.259 | 98.9 | 191.4 | -5.4 | 0.204 |
| 4-2160 | 4-3060 | 0.362 | 339.5 | 1.8 | 2.76 | 1.287 | 99.6 | 0.676 | 2.994 | 336.2 | 536.8 | 0.971 | --- | -3.46 | 0.257 | 96.7 | 190.2 | -4.9 | 0.202 |
| 4-2160 | 4-3080 | 0.364 | 340.7 | 1.2 | 2.47 | 1.287 | 99.9 | 0.676 | 2.991 | 335.5 | 537.8 | 0.969 | --- | -3.19 | 0.255 | 94.5 | 189.2 | -4.5 | 0.202 |
| 4-2160 | 4-3100 | 0.367 | 341.9 | 0.7 | 2.23 | 1.286 | 100.2 | 0.677 | 2.989 | 334.7 | 538.8 | 0.966 | --- | -2.97 | 0.254 | 92.4 | 188.2 | -4.2 | 0.201 |
| 4-2160 | 4-3120 | 0.371 | 343.1 | 0.3 | 2.02 | 1.286 | 100.5 | 0.678 | 2.990 | 333.9 | 539.8 | 0.964 | --- | -2.78 | 0.254 | 90.4 | 187.3 | -3.9 | 0.202 |
| 4-2160 | 4-3140 | 0.375 | 344.3 | 0.0 | 1.83 | 1.287 | 100.9 | 0.679 | 2.991 | 333.0 | 540.7 | 0.961 | 5.021 | -2.61 | 0.253 | 88.5 | 186.5 | -3.6 | 0.203 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2160 | 4-3160 | 0.379 | 345.5 | -0.2 | 1.67 | 1.287 | 101.2 | 0.680 | 2.994 | 332.1 | 541.6 | 0.958 | 5.030 | -2.47 | 0.253 | 86.6 | 185.8 | -3.4 | 0.204 |
| 4-2160 | 4-3180 | 0.384 | 346.7 | -0.3 | 1.52 | 1.287 | 101.6 | 0.681 | 2.998 | 331.2 | 542.5 | 0.955 | 5.041 | -2.34 | 0.253 | 84.7 | 185.3 | -3.2 | 0.205 |
| 4-2160 | 4-3200 | 0.389 | 347.9 | -0.3 | 1.39 | 1.287 | 102.0 | 0.683 | 3.003 | 330.2 | 543.3 | 0.952 | 5.055 | -2.23 | 0.253 | 83.0 | 184.8 | -3.0 | 0.207 |
| 4-2160 | 4-3220 | 0.394 | 349.0 | -0.3 | 1.27 | 1.287 | 102.4 | 0.685 | 3.009 | 329.3 | 544.1 | 0.948 | 5.070 | -2.13 | 0.254 | 81.3 | 184.5 | -2.8 | 0.209 |
| 4-2160 | 4-3240 | 0.400 | 350.2 | -0.3 | 1.16 | 1.288 | 102.9 | 0.687 | 3.016 | 328.2 | 544.8 | 0.944 | 5.088 | -2.04 | 0.254 | 79.6 | 184.3 | -2.6 | 0.211 |
| 4-2160 | 4-3260 | 0.406 | 351.4 | -0.2 | 1.06 | 1.288 | 103.3 | 0.689 | 3.023 | 327.2 | 545.5 | 0.940 | 5.107 | -1.96 | 0.255 | 78.0 | 184.2 | -2.5 | 0.214 |
| 4-2160 | 4-3280 | 0.412 | 352.5 | -0.1 | 0.96 | 1.288 | 103.8 | 0.691 | 3.032 | 326.1 | 546.2 | 0.936 | 5.128 | -1.89 | 0.256 | 76.5 | 184.1 | -2.4 | 0.216 |
| 4-2160 | 4-3300 | 0.419 | 353.6 | 0.1 | 0.88 | 1.289 | 104.2 | 0.694 | 3.040 | 325.0 | 546.9 | 0.931 | 5.150 | -1.82 | 0.257 | 75.0 | 184.2 | -2.3 | 0.219 |
| 4-2160 | 4-3320 | 0.426 | 354.8 | 0.3 | 0.80 | 1.289 | 104.7 | 0.696 | 3.050 | 323.9 | 547.5 | 0.926 | 5.173 | -1.76 | 0.258 | 73.6 | 184.4 | -2.2 | 0.222 |
| 4-2160 | 4-3340 | 0.433 | 355.9 | 0.5 | 0.72 | 1.289 | 105.2 | 0.699 | 3.060 | 322.8 | 548.1 | 0.921 | 5.198 | -1.71 | 0.259 | 72.2 | 184.6 | -2.1 | 0.225 |
| 4-2160 | 4-3360 | 0.441 | 357.0 | 0.7 | 0.65 | 1.290 | 105.7 | 0.702 | 3.070 | 321.6 | 548.7 | 0.916 | 5.224 | -1.66 | 0.260 | 70.9 | 184.9 | -2.1 | 0.228 |
| 4-2160 | 4-3380 | 0.449 | 358.1 | 0.9 | 0.58 | 1.290 | 106.2 | 0.705 | 3.081 | 320.5 | 549.3 | 0.910 | 5.251 | -1.61 | 0.261 | 69.6 | 185.3 | -2.0 | 0.231 |
| 4-2160 | 4-3400 | 0.457 | 359.2 | 1.2 | 0.52 | 1.291 | 106.7 | 0.708 | 3.092 | 319.3 | 549.8 | 0.904 | 5.280 | -1.57 | 0.262 | 68.3 | 185.8 | -1.9 | 0.234 |
| 4-2160 | 4-3420 | 0.465 | 0.2 | 1.4 | 0.46 | 1.291 | 107.3 | 0.711 | 3.104 | 318.0 | 550.3 | 0.898 | 5.309 | -1.54 | 0.263 | 67.1 | 186.3 | -1.9 | 0.238 |
| 4-2160 | 4-3440 | 0.474 | 1.3 | 1.7 | 0.40 | 1.292 | 107.8 | 0.714 | 3.115 | 316.8 | 550.8 | 0.892 | 5.339 | -1.50 | 0.265 | 65.9 | 186.9 | -1.9 | 0.241 |
| 4-2160 | 4-3460 | 0.482 | 2.3 | 2.0 | 0.35 | 1.292 | 108.4 | 0.717 | 3.128 | 315.6 | 551.3 | 0.885 | 5.370 | -1.47 | 0.266 | 64.8 | 187.6 | -1.9 | 0.244 |
| 4-2160 | 4-3480 | 0.491 | 3.4 | 2.3 | 0.30 | 1.293 | 108.9 | 0.720 | 3.140 | 314.3 | 551.7 | 0.878 | 5.402 | -1.44 | 0.268 | 63.7 | 188.3 | -1.8 | 0.248 |
| 4-2160 | 4-3500 | 0.501 | 4.4 | 2.5 | 0.25 | 1.293 | 109.5 | 0.724 | 3.153 | 313.0 | 552.1 | 0.871 | 5.434 | -1.41 | 0.269 | 62.6 | 189.1 | -1.8 | 0.251 |
| 4-2160 | 4-3520 | 0.510 | 5.4 | 2.8 | 0.20 | 1.294 | 110.1 | 0.727 | 3.165 | 311.7 | 552.5 | 0.864 | 5.467 | -1.39 | 0.270 | 61.5 | 189.9 | -1.8 | 0.254 |
| 4-2160 | 4-3540 | 0.520 | 6.4 | 3.1 | 0.15 | 1.294 | 110.7 | 0.731 | 3.179 | 310.4 | 552.9 | 0.856 | 5.501 | -1.37 | 0.272 | 60.5 | 190.7 | -1.8 | 0.258 |
| 4-2160 | 4-3560 | 0.530 | 7.3 | 3.4 | 0.11 | 1.295 | 111.3 | 0.734 | 3.192 | 309.1 | 553.3 | 0.848 | 5.536 | -1.35 | 0.273 | 59.4 | 191.6 | -1.8 | 0.261 |
| 4-2160 | 4-3580 | 0.540 | 8.3 | 3.7 | 0.06 | 1.295 | 111.9 | 0.738 | 3.205 | 307.7 | 553.6 | 0.840 | 5.571 | -1.33 | 0.274 | 58.5 | 192.6 | -1.8 | 0.265 |
| 4-2160 | 4-3600 | 0.551 | 9.3 | 4.0 | 0.02 | 1.296 | 112.5 | 0.742 | 3.219 | 306.3 | 553.9 | 0.831 | 5.607 | -1.31 | 0.276 | 57.5 | 193.5 | -1.9 | 0.268 |
| 4-2160 | 4-3620 | 0.562 | 10.2 | 4.4 | -0.02 | 1.296 | 113.2 | 0.746 | 3.233 | 305.0 | 554.2 | 0.822 | 5.643 | -1.30 | 0.277 | 56.5 | 194.6 | -1.9 | 0.272 |
| 4-2160 | 4-3640 | 0.572 | 11.1 | 4.7 | -0.06 | 1.297 | 113.8 | 0.750 | 3.247 | 303.6 | 554.5 | 0.813 | 5.680 | -1.28 | 0.279 | 55.6 | 195.6 | -1.9 | 0.275 |
| 4-2160 | 4-3660 | 0.584 | 12.1 | 5.0 | -0.10 | 1.297 | 114.5 | 0.754 | 3.261 | 302.2 | 554.8 | 0.803 | 5.718 | -1.27 | 0.280 | 54.7 | 196.7 | -1.9 | 0.279 |
| 4-2160 | 4-3680 | 0.595 | 13.0 | 5.3 | -0.14 | 1.298 | 115.1 | 0.758 | 3.275 | 300.8 | 555.0 | 0.794 | 5.756 | -1.26 | 0.282 | 53.8 | 197.8 | -2.0 | 0.282 |
| 4-2160 | 4-3700 | 0.606 | 13.9 | 5.6 | -0.18 | 1.298 | 115.8 | 0.762 | 3.289 | 299.4 | 555.3 | 0.784 | 5.795 | -1.25 | 0.283 | 52.9 | 198.9 | -2.0 | 0.286 |
| 4-2160 | 4-3720 | 0.618 | 14.8 | 5.9 | -0.21 | 1.299 | 116.5 | 0.766 | 3.304 | 297.9 | 555.5 | 0.773 | 5.834 | -1.24 | 0.284 | 52.0 | 200.1 | -2.0 | 0.289 |
| 4-2160 | 4-3740 | 0.630 | 15.7 | 6.2 | -0.25 | 1.299 | 117.2 | 0.770 | 3.318 | 296.5 | 555.7 | 0.763 | 5.873 | -1.24 | 0.286 | 51.2 | 201.3 | -2.1 | 0.293 |
| 4-2160 | 4-3760 | 0.642 | 16.5 | 6.5 | -0.28 | 1.300 | 117.9 | 0.774 | 3.333 | 295.0 | 555.9 | 0.752 | 5.913 | -1.23 | 0.287 | 50.3 | 202.5 | -2.1 | 0.296 |
| 4-2170 | 4-2470 | 0.640 | 351.5 | -8.5 | -1.87 | 1.545 | 104.0 | 1.385 | -2.486 | 335.9 | 472.9 | 0.957 | --- | 1.64 | 0.898 | 160.2 | 211.6 | -1.0 | 0.864 |
| 4-2170 | 4-2490 | 0.590 | 350.4 | -9.4 | -1.95 | 1.505 | 102.7 | 1.270 | -3.577 | 337.3 | 476.1 | 0.964 | --- | 1.69 | 0.826 | 158.8 | 212.0 | -1.0 | 0.792 |
| 4-2170 | 4-2510 | 0.547 | 349.2 | -10.5 | -2.04 | 1.471 | 101.6 | 1.175 | -5.553 | 338.6 | 479.3 | 0.970 | --- | 1.76 | 0.764 | 157.4 | 212.4 | -0.9 | 0.729 |
| 4-2170 | 4-2530 | 0.511 | 348.0 | -11.6 | -2.13 | 1.443 | 100.5 | 1.096 | 10.149 | 339.9 | 482.4 | 0.976 | --- | 1.83 | 0.709 | 156.0 | 212.7 | -0.9 | 0.673 |
| 4-2170 | 4-2550 | 0.481 | 346.9 | -12.7 | -2.23 | 1.420 | 99.6 | 1.031 | 32.116 | 341.2 | 485.5 | 0.981 | --- | 1.91 | 0.660 | 154.4 | 213.0 | -0.8 | 0.623 |
| 4-2170 | 4-2570 | 0.455 | 345.7 | -13.8 | -2.34 | 1.400 | 98.7 | 0.975 | 40.179 | 342.4 | 488.5 | 0.985 | --- | 2.00 | 0.616 | 152.8 | 213.1 | -0.7 | 0.578 |
| 4-2170 | 4-2590 | 0.433 | 344.6 | -15.0 | -2.46 | 1.383 | 98.0 | 0.929 | 13.916 | 343.5 | 491.5 | 0.988 | --- | 2.10 | 0.576 | 151.1 | 213.2 | -0.6 | 0.538 |
| 4-2170 | 4-2610 | 0.414 | 343.6 | -16.2 | -2.60 | 1.369 | 97.3 | 0.890 | 8.977 | 344.5 | 494.3 | 0.991 | --- | 2.22 | 0.541 | 149.3 | 213.3 | -0.5 | 0.501 |
| 4-2170 | 4-2630 | 0.399 | 342.7 | -17.4 | -2.75 | 1.356 | 96.7 | 0.856 | 6.905 | 345.5 | 497.1 | 0.993 | --- | 2.35 | 0.509 | 147.4 | 213.2 | -0.3 | 0.468 |
| 4-2170 | 4-2650 | 0.385 | 341.9 | -18.7 | -2.91 | 1.346 | 96.2 | 0.828 | 5.773 | 346.4 | 499.9 | 0.995 | --- | 2.50 | 0.480 | 145.5 | 213.0 | -0.1 | 0.438 |
| 4-2170 | 4-2670 | 0.374 | 341.2 | -19.9 | -3.10 | 1.337 | 95.7 | 0.803 | 5.066 | 347.2 | 502.5 | 0.997 | --- | 2.67 | 0.454 | 143.4 | 212.7 | 0.1 | 0.411 |
| 4-2170 | 4-2690 | 0.365 | 340.7 | -21.3 | -3.32 | 1.329 | 95.3 | 0.782 | 4.586 | 347.9 | 505.0 | 0.998 | --- | 2.87 | 0.431 | 141.3 | 212.5 | 0.4 | 0.386 |
| 4-2170 | 4-2710 | 0.358 | 340.4 | -22.6 | -3.58 | 1.322 | 95.0 | 0.764 | 4.242 | 348.4 | 507.4 | 0.999 | --- | 3.11 | 0.410 | 139.2 | 212.0 | 0.7 | 0.363 |
| 4-2170 | 4-2730 | 0.352 | 340.3 | -24.1 | -3.88 | 1.317 | 94.7 | 0.749 | 3.986 | 348.9 | 509.7 | 1.000 | --- | 3.39 | 0.391 | 136.9 | 211.5 | 1.0 | 0.343 |
| 4-2170 | 4-2750 | 0.347 | 340.4 | -25.8 | -4.24 | 1.312 | 94.5 | 0.736 | 3.789 | 349.3 | 511.9 | 1.001 | --- | 3.74 | 0.374 | 134.6 | 210.8 | 1.5 | 0.324 |
| 4-2170 | 4-2770 | 0.345 | 340.9 | -27.6 | -4.69 | 1.307 | 94.4 | 0.725 | 3.635 | 349.6 | 514.1 | 1.001 | --- | 4.16 | 0.358 | 132.3 | 210.1 | 2.1 | 0.307 |
| 4-2170 | 4-2790 | 0.344 | 341.7 | -29.7 | -5.25 | 1.304 | 94.2 | 0.715 | 3.512 | 349.8 | 516.1 | 1.001 | --- | 4.70 | 0.345 | 129.9 | 209.2 | 2.8 | 0.292 |
| 4-2170 | 4-2810 | 0.345 | 342.9 | -32.3 | -5.97 | 1.301 | 94.2 | 0.707 | 3.413 | 350.0 | 518.0 | 1.002 | --- | 5.41 | 0.332 | 127.5 | 208.2 | 3.7 | 0.279 |
| 4-2170 | 4-2830 | 0.349 | 344.9 | -35.5 | -6.96 | 1.298 | 94.1 | 0.699 | 3.333 | 350.0 | 519.9 | 1.002 | --- | 6.38 | 0.321 | 125.0 | 207.1 | 4.9 | 0.268 |
| 4-2170 | 4-2850 | 0.359 | 348.0 | -39.8 | -8.36 | 1.295 | 94.1 | 0.693 | 3.267 | 350.0 | 521.7 | 1.002 | --- | 7.76 | 0.311 | 122.5 | 205.9 | 6.6 | 0.258 |
| 4-2170 | 4-2870 | 0.379 | 353.3 | -45.6 | -10.54 | 1.293 | 94.1 | 0.688 | 3.213 | 349.9 | 523.4 | 1.002 | --- | 9.93 | 0.302 | 120.0 | 204.6 | 9.1 | 0.251 |
| 4-2170 | 4-2890 | 0.424 | 3.8 | -53.6 | -14.37 | 1.292 | 94.2 | 0.684 | 3.168 | 349.7 | 525.0 | 1.001 | --- | 13.74 | 0.295 | 117.5 | 203.1 | 13.2 | 0.249 |
| 4-2170 | 4-2910 | 0.546 | 31.7 | -62.9 | -22.75 | 1.290 | 94.2 | 0.680 | 3.132 | 349.5 | 526.6 | 1.001 | --- | 22.10 | 0.288 | 115.0 | 200.9 | 20.8 | 0.263 |
| 4-2170 | 4-2930 | 1.018 | 93.5 | -54.8 | -50.77 | 1.289 | 94.2 | 0.677 | 3.101 | 349.5 | 528.1 | 1.001 | --- | 50.10 | 0.282 | 112.6 | 194.7 | 32.3 | 0.366 |
| 4-2170 | 4-2950 | 1.022 | 261.4 | 78.9 | 51.01 | 1.288 | 94.8 | 0.675 | 3.077 | 348.0 | 529.4 | 0.999 | --- | -51.69 | 0.277 | 110.2 | 189.9 | -34.0 | 0.370 |
| 4-2170 | 4-2970 | 0.531 | 311.7 | 50.6 | 21.81 | 1.287 | 94.9 | 0.673 | 3.057 | 347.9 | 530.8 | 0.999 | --- | -22.51 | 0.272 | 107.8 | 194.8 | -24.2 | 0.250 |
| 4-2170 | 4-2990 | 0.409 | 320.9 | 33.5 | 13.21 | 1.287 | 95.0 | 0.672 | 3.041 | 347.5 | 532.1 | 0.998 | --- | -13.93 | 0.269 | 105.4 | 194.9 | -17.1 | 0.223 |
| 4-2170 | 4-3010 | 0.366 | 325.8 | 23.1 | 9.31 | 1.286 | 95.2 | 0.671 | 3.028 | 346.9 | 533.3 | 0.998 | --- | -10.05 | 0.266 | 103.1 | 194.1 | -13.0 | 0.212 |
| 4-2170 | 4-3030 | 0.348 | 329.1 | 16.4 | 7.10 | 1.286 | 95.5 | 0.670 | 3.018 | 346.4 | 534.5 | 0.997 | --- | -7.86 | 0.263 | 100.8 | 193.0 | -10.5 | 0.207 |
| 4-2170 | 4-3050 | 0.339 | 331.8 | 11.9 | 5.68 | 1.285 | 95.7 | 0.669 | 3.011 | 345.7 | 535.7 | 0.995 | --- | -6.45 | 0.261 | 98.6 | 191.9 | -8.8 | 0.203 |
| 4-2170 | 4-3070 | 0.336 | 334.0 | 8.7 | 4.69 | 1.285 | 96.0 | 0.669 | 3.007 | 345.0 | 536.8 | 0.994 | --- | -5.48 | 0.259 | 96.5 | 190.8 | -7.6 | 0.201 |
| 4-2170 | 4-3090 | 0.334 | 336.0 | 6.4 | 3.96 | 1.285 | 96.3 | 0.670 | 3.004 | 344.3 | 537.8 | 0.993 | --- | -4.77 | 0.258 | 94.4 | 189.8 | -6.7 | 0.200 |
| 4-2170 | 4-3110 | 0.334 | 337.8 | 4.8 | 3.39 | 1.285 | 96.6 | 0.670 | 3.003 | 343.5 | 538.8 | 0.991 | --- | -4.22 | 0.257 | 92.4 | 188.9 | -5.9 | 0.199 |
| 4-2170 | 4-3130 | 0.336 | 339.5 | 3.5 | 2.95 | 1.285 | 96.9 | 0.671 | 3.004 | 342.7 | 539.8 | 0.990 | --- | -3.79 | 0.256 | 90.4 | 188.0 | -5.3 | 0.200 |
| 4-2170 | 4-3150 | 0.338 | 341.2 | 2.6 | 2.58 | 1.285 | 97.3 | 0.671 | 3.006 | 341.8 | 540.7 | 0.988 | 5.024 | -3.45 | 0.256 | 88.6 | 187.3 | -4.8 | 0.200 |
| 4-2170 | 4-3170 | 0.341 | 342.7 | 1.9 | 2.28 | 1.285 | 97.7 | 0.672 | 3.009 | 340.9 | 541.6 | 0.986 | 5.033 | -3.16 | 0.256 | 86.7 | 186.6 | -4.4 | 0.201 |
| 4-2170 | 4-3190 | 0.344 | 344.3 | 1.4 | 2.02 | 1.286 | 98.0 | 0.674 | 3.014 | 340.0 | 542.4 | 0.984 | 5.044 | -2.92 | 0.256 | 85.0 | 186.1 | -4.0 | 0.202 |
| 4-2170 | 4-3210 | 0.347 | 345.8 | 1.1 | 1.80 | 1.286 | 98.4 | 0.675 | 3.019 | 339.1 | 543.3 | 0.981 | 5.057 | -2.72 | 0.256 | 83.3 | 185.7 | -3.7 | 0.204 |
| 4-2170 | 4-3230 | 0.352 | 347.3 | 0.9 | 1.61 | 1.286 | 98.8 | 0.677 | 3.025 | 338.1 | 544.0 | 0.979 | 5.072 | -2.55 | 0.257 | 81.7 | 185.4 | -3.4 | 0.206 |
| 4-2170 | 4-3250 | 0.356 | 348.7 | 0.8 | 1.44 | 1.286 | 99.2 | 0.678 | 3.032 | 337.1 | 544.8 | 0.976 | 5.089 | -2.40 | 0.257 | 80.1 | 185.2 | -3.2 | 0.208 |
| 4-2170 | 4-3270 | 0.361 | 350.2 | 0.7 | 1.29 | 1.287 | 99.7 | 0.680 | 3.040 | 336.0 | 545.5 | 0.973 | 5.107 | -2.27 | 0.258 | 78.6 | 185.1 | -3.0 | 0.210 |
| 4-2170 | 4-3290 | 0.366 | 351.6 | 0.7 | 1.16 | 1.287 | 100.1 | 0.682 | 3.049 | 335.0 | 546.2 | 0.970 | 5.128 | -2.15 | 0.259 | 77.1 | 185.0 | -2.8 | 0.212 |
| 4-2170 | 4-3310 | 0.372 | 353.0 | 0.8 | 1.04 | 1.287 | 100.6 | 0.684 | 3.058 | 333.9 | 546.9 | 0.966 | 5.149 | -2.05 | 0.260 | 75.7 | 185.1 | -2.7 | 0.215 |
| 4-2170 | 4-3330 | 0.377 | 354.4 | 1.0 | 0.93 | 1.288 | 101.0 | 0.686 | 3.067 | 332.8 | 547.5 | 0.963 | 5.172 | -1.96 | 0.261 | 74.3 | 185.3 | -2.5 | 0.217 |
| 4-2170 | 4-3350 | 0.383 | 355.7 | 1.1 | 0.83 | 1.288 | 101.5 | 0.688 | 3.077 | 331.7 | 548.1 | 0.959 | 5.196 | -1.88 | 0.262 | 73.0 | 185.5 | -2.4 | 0.220 |
| 4-2170 | 4-3370 | 0.390 | 357.0 | 1.3 | 0.74 | 1.289 | 102.0 | 0.691 | 3.088 | 330.5 | 548.7 | 0.955 | 5.221 | -1.80 | 0.263 | 71.7 | 185.8 | -2.3 | 0.223 |
| 4-2170 | 4-3390 | 0.397 | 358.4 | 1.5 | 0.65 | 1.289 | 102.5 | 0.693 | 3.099 | 329.3 | 549.3 | 0.950 | 5.248 | -1.74 | 0.264 | 70.5 | 186.2 | -2.3 | 0.226 |
| 4-2170 | 4-3410 | 0.404 | 359.6 | 1.8 | 0.58 | 1.290 | 103.0 | 0.696 | 3.110 | 328.2 | 549.8 | 0.946 | 5.275 | -1.68 | 0.265 | 69.3 | 186.7 | -2.2 | 0.229 |
| 4-2170 | 4-3430 | 0.411 | 0.9 | 2.1 | 0.50 | 1.290 | 103.5 | 0.699 | 3.122 | 327.0 | 550.4 | 0.941 | 5.303 | -1.62 | 0.267 | 68.1 | 187.2 | -2.1 | 0.232 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2170 | 4-3450 | 0.418 | 2.2 | 2.4 | 0.43 | 1.290 | 104.0 | 0.701 | 3.134 | 325.7 | 550.9 | 0.936 | 5.332 | -1.57 | 0.268 | 67.0 | 187.8 | -2.1 | 0.235 |
| 4-2170 | 4-3470 | 0.426 | 3.4 | 2.7 | 0.37 | 1.291 | 104.6 | 0.704 | 3.146 | 324.5 | 551.3 | 0.931 | 5.362 | -1.53 | 0.269 | 65.9 | 188.4 | -2.0 | 0.238 |
| 4-2170 | 4-3490 | 0.434 | 4.6 | 3.0 | 0.31 | 1.291 | 105.1 | 0.707 | 3.159 | 323.3 | 551.8 | 0.925 | 5.393 | -1.49 | 0.271 | 64.9 | 189.1 | -2.0 | 0.241 |
| 4-2170 | 4-3510 | 0.442 | 5.8 | 3.3 | 0.25 | 1.292 | 105.7 | 0.710 | 3.172 | 322.0 | 552.2 | 0.919 | 5.424 | -1.45 | 0.272 | 63.8 | 189.9 | -2.0 | 0.244 |
| 4-2170 | 4-3530 | 0.451 | 7.0 | 3.6 | 0.20 | 1.292 | 106.2 | 0.713 | 3.185 | 320.7 | 552.6 | 0.913 | 5.456 | -1.42 | 0.273 | 62.8 | 190.7 | -2.0 | 0.247 |
| 4-2170 | 4-3550 | 0.459 | 8.1 | 3.9 | 0.14 | 1.293 | 106.8 | 0.716 | 3.198 | 319.4 | 553.0 | 0.907 | 5.489 | -1.39 | 0.275 | 61.8 | 191.5 | -2.0 | 0.251 |
| 4-2170 | 4-3570 | 0.468 | 9.3 | 4.3 | 0.09 | 1.293 | 107.4 | 0.720 | 3.211 | 318.1 | 553.4 | 0.900 | 5.522 | -1.36 | 0.276 | 60.9 | 192.4 | -2.0 | 0.254 |
| 4-2170 | 4-3590 | 0.478 | 10.4 | 4.6 | 0.05 | 1.294 | 108.0 | 0.723 | 3.225 | 316.8 | 553.8 | 0.893 | 5.556 | -1.33 | 0.277 | 59.9 | 193.3 | -2.0 | 0.257 |
| 4-2170 | 4-3610 | 0.487 | 11.5 | 4.9 | 0.00 | 1.294 | 108.6 | 0.726 | 3.238 | 315.5 | 554.1 | 0.886 | 5.591 | -1.31 | 0.279 | 59.0 | 194.3 | -2.0 | 0.260 |
| 4-2170 | 4-3630 | 0.497 | 12.6 | 5.3 | -0.04 | 1.295 | 109.2 | 0.730 | 3.252 | 314.1 | 554.5 | 0.879 | 5.626 | -1.28 | 0.280 | 58.1 | 195.3 | -2.0 | 0.263 |
| 4-2170 | 4-3650 | 0.507 | 13.6 | 5.6 | -0.09 | 1.295 | 109.8 | 0.733 | 3.266 | 312.8 | 554.8 | 0.871 | 5.661 | -1.26 | 0.282 | 57.3 | 196.3 | -2.0 | 0.267 |
| 4-2170 | 4-3670 | 0.517 | 14.7 | 6.0 | -0.13 | 1.296 | 110.4 | 0.737 | 3.280 | 311.4 | 555.1 | 0.863 | 5.698 | -1.24 | 0.283 | 56.4 | 197.3 | -2.0 | 0.270 |
| 4-2170 | 4-3690 | 0.527 | 15.7 | 6.3 | -0.17 | 1.296 | 111.0 | 0.741 | 3.295 | 310.0 | 555.4 | 0.855 | 5.734 | -1.23 | 0.284 | 55.5 | 198.4 | -2.0 | 0.273 |
| 4-2170 | 4-3710 | 0.537 | 16.7 | 6.6 | -0.20 | 1.297 | 111.7 | 0.744 | 3.309 | 308.6 | 555.6 | 0.846 | 5.771 | -1.21 | 0.286 | 54.7 | 199.5 | -2.0 | 0.276 |
| 4-2170 | 4-3730 | 0.548 | 17.7 | 7.0 | -0.24 | 1.297 | 112.3 | 0.748 | 3.323 | 307.2 | 555.9 | 0.837 | 5.809 | -1.20 | 0.287 | 53.9 | 200.7 | -2.1 | 0.280 |
| 4-2170 | 4-3750 | 0.559 | 18.7 | 7.3 | -0.28 | 1.298 | 113.0 | 0.752 | 3.338 | 305.8 | 556.1 | 0.828 | 5.847 | -1.18 | 0.288 | 53.1 | 201.8 | -2.1 | 0.283 |
| 4-2170 | 4-3770 | 0.570 | 19.7 | 7.6 | -0.31 | 1.298 | 113.6 | 0.756 | 3.352 | 304.4 | 556.3 | 0.819 | 5.885 | -1.17 | 0.290 | 52.3 | 203.0 | -2.1 | 0.286 |
| 4-2180 | 4-2460 | 0.639 | 351.0 | -8.1 | -1.58 | 1.581 | 100.3 | 1.513 | -1.919 | 343.0 | 469.4 | 0.984 | --- | 1.22 | 0.961 | 160.8 | 212.2 | -1.2 | 0.925 |
| 4-2180 | 4-2480 | 0.585 | 349.6 | -9.1 | -1.63 | 1.534 | 99.0 | 1.370 | -2.672 | 344.4 | 472.6 | 0.989 | --- | 1.25 | 0.882 | 159.5 | 212.6 | -1.2 | 0.845 |
| 4-2180 | 4-2500 | 0.539 | 348.0 | -10.2 | -1.69 | 1.495 | 97.9 | 1.254 | -3.903 | 345.8 | 475.9 | 0.993 | --- | 1.29 | 0.812 | 158.2 | 213.0 | -1.2 | 0.775 |
| 4-2180 | 4-2520 | 0.501 | 346.4 | -11.3 | -1.74 | 1.463 | 96.8 | 1.160 | -6.233 | 347.3 | 479.2 | 0.997 | --- | 1.32 | 0.751 | 156.8 | 213.3 | -1.1 | 0.713 |
| 4-2180 | 4-2540 | 0.468 | 344.7 | -12.5 | -1.80 | 1.436 | 95.9 | 1.082 | 12.211 | 348.7 | 482.4 | 1.000 | --- | 1.36 | 0.697 | 155.3 | 213.5 | -1.1 | 0.658 |
| 4-2180 | 4-2560 | 0.441 | 343.1 | -13.6 | -1.86 | 1.413 | 95.0 | 1.017 | 58.861 | 350.0 | 485.6 | 1.003 | --- | 1.41 | 0.649 | 153.7 | 213.7 | -1.0 | 0.609 |
| 4-2180 | 4-2580 | 0.419 | 341.5 | -14.8 | -1.93 | 1.394 | 94.3 | 0.963 | 27.039 | 351.3 | 488.7 | 1.005 | --- | 1.46 | 0.606 | 152.1 | 213.8 | -1.0 | 0.566 |
| 4-2180 | 4-2600 | 0.400 | 340.0 | -15.9 | -2.00 | 1.377 | 93.6 | 0.917 | 12.163 | 352.5 | 491.7 | 1.006 | --- | 1.51 | 0.567 | 150.4 | 213.9 | -0.9 | 0.526 |
| 4-2180 | 4-2620 | 0.384 | 338.5 | -17.0 | -2.08 | 1.364 | 93.0 | 0.879 | 8.314 | 353.6 | 494.7 | 1.007 | --- | 1.57 | 0.533 | 148.6 | 213.9 | -0.8 | 0.490 |
| 4-2180 | 4-2640 | 0.370 | 337.2 | -18.0 | -2.16 | 1.352 | 92.5 | 0.846 | 6.559 | 354.6 | 497.5 | 1.008 | --- | 1.63 | 0.502 | 146.7 | 213.8 | -0.7 | 0.458 |
| 4-2180 | 4-2660 | 0.359 | 336.0 | -19.1 | -2.25 | 1.342 | 92.0 | 0.819 | 5.562 | 355.5 | 500.3 | 1.009 | --- | 1.71 | 0.473 | 144.7 | 213.6 | -0.6 | 0.429 |
| 4-2180 | 4-2680 | 0.350 | 334.9 | -20.0 | -2.35 | 1.333 | 91.6 | 0.795 | 4.925 | 356.3 | 502.9 | 1.009 | --- | 1.79 | 0.448 | 142.7 | 213.3 | -0.5 | 0.402 |
| 4-2180 | 4-2700 | 0.342 | 334.0 | -21.0 | -2.46 | 1.325 | 91.3 | 0.775 | 4.486 | 357.0 | 505.4 | 1.010 | --- | 1.88 | 0.425 | 140.5 | 212.9 | -0.3 | 0.378 |
| 4-2180 | 4-2720 | 0.335 | 333.3 | -21.9 | -2.58 | 1.319 | 91.0 | 0.758 | 4.169 | 357.6 | 507.9 | 1.010 | --- | 1.98 | 0.405 | 138.4 | 212.4 | -0.1 | 0.356 |
| 4-2180 | 4-2740 | 0.330 | 332.8 | -22.8 | -2.71 | 1.313 | 90.8 | 0.743 | 3.930 | 358.1 | 510.2 | 1.010 | --- | 2.10 | 0.386 | 136.1 | 211.8 | 0.1 | 0.336 |
| 4-2180 | 4-2760 | 0.325 | 332.5 | -23.8 | -2.87 | 1.309 | 90.6 | 0.730 | 3.746 | 358.5 | 512.4 | 1.010 | --- | 2.24 | 0.370 | 133.8 | 211.1 | 0.3 | 0.318 |
| 4-2180 | 4-2780 | 0.322 | 332.3 | -24.7 | -3.04 | 1.305 | 90.5 | 0.720 | 3.602 | 358.8 | 514.5 | 1.010 | --- | 2.40 | 0.355 | 131.5 | 210.3 | 0.6 | 0.301 |
| 4-2180 | 4-2800 | 0.319 | 332.4 | -25.6 | -3.24 | 1.301 | 90.4 | 0.710 | 3.487 | 359.0 | 516.5 | 1.010 | --- | 2.58 | 0.341 | 129.1 | 209.4 | 0.9 | 0.286 |
| 4-2180 | 4-2820 | 0.317 | 332.6 | -26.7 | -3.47 | 1.298 | 90.4 | 0.702 | 3.393 | 359.1 | 518.5 | 1.010 | --- | 2.80 | 0.329 | 126.6 | 208.4 | 1.3 | 0.273 |
| 4-2180 | 4-2840 | 0.315 | 333.1 | -27.8 | -3.75 | 1.295 | 90.4 | 0.695 | 3.318 | 359.1 | 520.3 | 1.010 | --- | 3.06 | 0.319 | 124.2 | 207.3 | 1.7 | 0.261 |
| 4-2180 | 4-2860 | 0.315 | 333.9 | -29.1 | -4.08 | 1.293 | 90.4 | 0.690 | 3.256 | 359.1 | 522.1 | 1.010 | --- | 3.37 | 0.309 | 121.7 | 206.1 | 2.2 | 0.251 |
| 4-2180 | 4-2880 | 0.315 | 334.9 | -30.5 | -4.49 | 1.291 | 90.4 | 0.685 | 3.204 | 358.9 | 523.8 | 1.010 | --- | 3.76 | 0.301 | 119.2 | 204.9 | 2.8 | 0.241 |
| 4-2180 | 4-2900 | 0.317 | 336.2 | -32.3 | -5.01 | 1.290 | 90.5 | 0.681 | 3.163 | 358.7 | 525.4 | 1.010 | --- | 4.27 | 0.294 | 116.7 | 203.6 | 3.6 | 0.233 |
| 4-2180 | 4-2920 | 0.320 | 338.0 | -34.6 | -5.68 | 1.288 | 90.6 | 0.677 | 3.128 | 358.4 | 526.9 | 1.010 | --- | 4.92 | 0.287 | 114.3 | 202.2 | 4.5 | 0.226 |
| 4-2180 | 4-2940 | 0.326 | 340.5 | -37.5 | -6.60 | 1.287 | 90.8 | 0.674 | 3.100 | 358.1 | 528.3 | 1.010 | --- | 5.83 | 0.281 | 111.8 | 200.9 | 5.8 | 0.221 |
| 4-2180 | 4-2960 | 0.337 | 344.1 | -41.6 | -7.93 | 1.286 | 90.9 | 0.672 | 3.077 | 357.7 | 529.7 | 1.010 | --- | 7.14 | 0.277 | 109.4 | 199.5 | 7.6 | 0.217 |
| 4-2180 | 4-2980 | 0.357 | 349.7 | -47.3 | -10.03 | 1.286 | 91.1 | 0.670 | 3.058 | 357.2 | 531.1 | 1.010 | --- | 9.22 | 0.273 | 107.1 | 198.2 | 10.2 | 0.216 |
| 4-2180 | 4-3000 | 0.403 | 0.9 | -55.7 | -13.82 | 1.285 | 91.3 | 0.668 | 3.044 | 356.7 | 532.4 | 1.010 | --- | 13.00 | 0.269 | 104.8 | 196.8 | 14.6 | 0.219 |
| 4-2180 | 4-3020 | 0.533 | 32.7 | -66.1 | -22.60 | 1.284 | 91.5 | 0.667 | 3.032 | 356.2 | 533.6 | 1.009 | --- | 21.77 | 0.266 | 102.5 | 195.4 | 22.9 | 0.240 |
| 4-2180 | 4-3040 | 1.112 | 106.9 | -53.9 | -56.73 | 1.284 | 91.6 | 0.666 | 3.024 | 356.0 | 534.8 | 1.009 | --- | 55.88 | 0.264 | 100.2 | 192.3 | 33.9 | 0.379 |
| 4-2180 | 4-3060 | 0.831 | 276.6 | 70.3 | 40.22 | 1.284 | 92.3 | 0.666 | 3.018 | 354.3 | 535.8 | 1.008 | --- | -41.09 | 0.262 | 98.2 | 189.1 | -33.6 | 0.312 |
| 4-2180 | 4-3080 | 0.460 | 312.8 | 44.4 | 17.75 | 1.284 | 92.5 | 0.666 | 3.014 | 353.8 | 536.9 | 1.008 | --- | -18.63 | 0.260 | 96.1 | 190.1 | -22.0 | 0.226 |
| 4-2180 | 4-3100 | 0.370 | 322.2 | 28.8 | 10.92 | 1.284 | 92.7 | 0.666 | 3.012 | 353.1 | 538.0 | 1.007 | --- | -11.82 | 0.259 | 94.0 | 189.7 | -15.2 | 0.209 |
| 4-2180 | 4-3120 | 0.339 | 327.4 | 19.5 | 7.72 | 1.284 | 93.0 | 0.666 | 3.012 | 352.4 | 539.0 | 1.007 | --- | -8.63 | 0.258 | 92.1 | 189.0 | -11.5 | 0.203 |
| 4-2180 | 4-3140 | 0.326 | 331.1 | 13.6 | 5.88 | 1.284 | 93.4 | 0.666 | 3.013 | 351.6 | 539.9 | 1.006 | --- | -6.80 | 0.258 | 90.2 | 188.3 | -9.2 | 0.201 |
| 4-2180 | 4-3160 | 0.320 | 334.0 | 9.7 | 4.68 | 1.284 | 93.7 | 0.667 | 3.016 | 350.7 | 540.8 | 1.005 | 5.027 | -5.62 | 0.258 | 88.4 | 187.7 | -7.7 | 0.200 |
| 4-2180 | 4-3180 | 0.318 | 336.5 | 7.0 | 3.83 | 1.284 | 94.1 | 0.668 | 3.020 | 349.8 | 541.7 | 1.004 | 5.036 | -4.79 | 0.258 | 86.6 | 187.1 | -6.5 | 0.200 |
| 4-2180 | 4-3200 | 0.318 | 338.8 | 5.1 | 3.20 | 1.284 | 94.5 | 0.668 | 3.025 | 348.9 | 542.5 | 1.003 | 5.047 | -4.18 | 0.258 | 84.9 | 186.6 | -5.7 | 0.201 |
| 4-2180 | 4-3220 | 0.319 | 340.9 | 3.8 | 2.72 | 1.284 | 94.8 | 0.670 | 3.031 | 347.9 | 543.3 | 1.001 | 5.060 | -3.71 | 0.258 | 83.3 | 186.3 | -5.0 | 0.202 |
| 4-2180 | 4-3240 | 0.321 | 342.9 | 2.8 | 2.33 | 1.285 | 95.2 | 0.671 | 3.037 | 346.9 | 544.1 | 1.000 | 5.075 | -3.34 | 0.259 | 81.7 | 186.0 | -4.5 | 0.204 |
| 4-2180 | 4-3260 | 0.323 | 344.8 | 2.2 | 2.02 | 1.285 | 95.7 | 0.672 | 3.045 | 345.9 | 544.9 | 0.998 | 5.092 | -3.04 | 0.259 | 80.2 | 185.8 | -4.1 | 0.205 |
| 4-2180 | 4-3280 | 0.327 | 346.7 | 1.8 | 1.75 | 1.285 | 96.1 | 0.674 | 3.053 | 344.9 | 545.6 | 0.996 | 5.110 | -2.79 | 0.260 | 78.8 | 185.7 | -3.7 | 0.207 |
| 4-2180 | 4-3300 | 0.330 | 348.4 | 1.5 | 1.53 | 1.286 | 96.5 | 0.675 | 3.062 | 343.8 | 546.3 | 0.994 | 5.130 | -2.58 | 0.261 | 77.3 | 185.7 | -3.4 | 0.210 |
| 4-2180 | 4-3320 | 0.334 | 350.2 | 1.3 | 1.34 | 1.286 | 97.0 | 0.677 | 3.072 | 342.7 | 546.9 | 0.992 | 5.151 | -2.41 | 0.262 | 76.0 | 185.8 | -3.2 | 0.212 |
| 4-2180 | 4-3340 | 0.338 | 351.9 | 1.3 | 1.17 | 1.287 | 97.4 | 0.679 | 3.082 | 341.6 | 547.6 | 0.990 | 5.174 | -2.25 | 0.263 | 74.7 | 186.0 | -3.0 | 0.214 |
| 4-2180 | 4-3360 | 0.343 | 353.6 | 1.4 | 1.02 | 1.287 | 97.9 | 0.681 | 3.092 | 340.5 | 548.2 | 0.987 | 5.197 | -2.12 | 0.264 | 73.4 | 186.3 | -2.8 | 0.217 |
| 4-2180 | 4-3380 | 0.348 | 355.2 | 1.5 | 0.89 | 1.287 | 98.3 | 0.683 | 3.103 | 339.4 | 548.8 | 0.984 | 5.222 | -2.01 | 0.265 | 72.2 | 186.6 | -2.7 | 0.219 |
| 4-2180 | 4-3400 | 0.353 | 356.8 | 1.7 | 0.78 | 1.288 | 98.8 | 0.685 | 3.114 | 338.2 | 549.4 | 0.981 | 5.247 | -1.91 | 0.267 | 71.0 | 187.0 | -2.5 | 0.222 |
| 4-2180 | 4-3420 | 0.359 | 358.4 | 1.9 | 0.67 | 1.288 | 99.3 | 0.687 | 3.126 | 337.0 | 549.9 | 0.978 | 5.274 | -1.82 | 0.268 | 69.9 | 187.5 | -2.4 | 0.225 |
| 4-2180 | 4-3440 | 0.365 | 359.9 | 2.1 | 0.57 | 1.289 | 99.8 | 0.690 | 3.138 | 335.9 | 550.4 | 0.974 | 5.301 | -1.74 | 0.269 | 68.8 | 188.0 | -2.3 | 0.228 |
| 4-2180 | 4-3460 | 0.371 | 1.4 | 2.4 | 0.49 | 1.289 | 100.3 | 0.692 | 3.150 | 334.6 | 550.9 | 0.971 | 5.330 | -1.67 | 0.270 | 67.7 | 188.6 | -2.3 | 0.230 |
| 4-2180 | 4-3480 | 0.377 | 2.9 | 2.7 | 0.41 | 1.290 | 100.8 | 0.694 | 3.163 | 333.4 | 551.4 | 0.967 | 5.359 | -1.60 | 0.272 | 66.7 | 189.2 | -2.2 | 0.233 |
| 4-2180 | 4-3500 | 0.384 | 4.4 | 3.1 | 0.33 | 1.290 | 101.4 | 0.697 | 3.175 | 332.2 | 551.9 | 0.962 | 5.388 | -1.54 | 0.273 | 65.7 | 189.9 | -2.2 | 0.236 |
| 4-2180 | 4-3520 | 0.391 | 5.8 | 3.4 | 0.26 | 1.291 | 101.9 | 0.700 | 3.188 | 330.9 | 552.3 | 0.958 | 5.419 | -1.49 | 0.274 | 64.7 | 190.7 | -2.1 | 0.239 |
| 4-2180 | 4-3540 | 0.398 | 7.2 | 3.8 | 0.20 | 1.291 | 102.5 | 0.702 | 3.202 | 329.7 | 552.8 | 0.953 | 5.450 | -1.44 | 0.276 | 63.8 | 191.4 | -2.1 | 0.242 |
| 4-2180 | 4-3560 | 0.406 | 8.6 | 4.2 | 0.14 | 1.292 | 103.0 | 0.705 | 3.215 | 328.4 | 553.2 | 0.948 | 5.481 | -1.40 | 0.277 | 62.8 | 192.3 | -2.1 | 0.245 |
| 4-2180 | 4-3580 | 0.413 | 9.9 | 4.5 | 0.08 | 1.292 | 103.6 | 0.708 | 3.228 | 327.1 | 553.6 | 0.943 | 5.514 | -1.36 | 0.279 | 61.9 | 193.1 | -2.0 | 0.248 |
| 4-2180 | 4-3600 | 0.421 | 11.2 | 4.9 | 0.03 | 1.293 | 104.1 | 0.711 | 3.242 | 325.8 | 554.0 | 0.938 | 5.547 | -1.32 | 0.280 | 61.1 | 194.0 | -2.0 | 0.251 |
| 4-2180 | 4-3620 | 0.430 | 12.5 | 5.3 | -0.02 | 1.293 | 104.7 | 0.714 | 3.256 | 324.5 | 554.3 | 0.932 | 5.580 | -1.29 | 0.281 | 60.2 | 195.0 | -2.0 | 0.254 |
| 4-2180 | 4-3640 | 0.438 | 13.8 | 5.7 | -0.07 | 1.294 | 105.3 | 0.717 | 3.270 | 323.2 | 554.7 | 0.926 | 5.614 | -1.26 | 0.283 | 59.4 | 196.0 | -2.0 | 0.257 |
| 4-2180 | 4-3660 | 0.447 | 15.0 | 6.1 | -0.12 | 1.294 | 105.9 | 0.720 | 3.284 | 321.8 | 555.0 | 0.920 | 5.648 | -1.23 | 0.284 | 58.5 | 197.0 | -2.0 | 0.260 |
| 4-2180 | 4-3680 | 0.456 | 16.3 | 6.4 | -0.16 | 1.295 | 106.5 | 0.723 | 3.298 | 320.5 | 555.3 | 0.913 | 5.683 | -1.21 | 0.285 | 57.7 | 198.0 | -2.1 | 0.263 |
| 4-2180 | 4-3700 | 0.465 | 17.5 | 6.8 | -0.20 | 1.295 | 107.1 | 0.726 | 3.313 | 319.1 | 555.6 | 0.907 | 5.719 | -1.18 | 0.287 | 56.9 | 199.1 | -2.1 | 0.266 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2180 | 4-3720 | 0.474 | 18.7 | 7.2 | -0.24 | 1.296 | 107.7 | 0.730 | 3.327 | 317.8 | 555.9 | 0.900 | 5.754 | -1.16 | 0.288 | 56.2 | 200.2 | -2.1 | 0.269 |
| 4-2180 | 4-3740 | 0.484 | 19.8 | 7.6 | -0.28 | 1.296 | 108.3 | 0.733 | 3.342 | 316.4 | 556.2 | 0.892 | 5.791 | -1.14 | 0.289 | 55.4 | 201.3 | -2.1 | 0.271 |
| 4-2180 | 4-3760 | 0.494 | 20.9 | 8.0 | -0.32 | 1.297 | 108.9 | 0.736 | 3.356 | 315.0 | 556.5 | 0.885 | 5.827 | -1.12 | 0.291 | 54.6 | 202.4 | -2.1 | 0.274 |
| 4-2180 | 4-3780 | 0.504 | 22.1 | 8.3 | -0.36 | 1.297 | 109.5 | 0.740 | 3.371 | 313.6 | 556.7 | 0.877 | 5.864 | -1.11 | 0.292 | 53.9 | 203.6 | -2.2 | 0.277 |
| 4-2190 | 4-2470 | 0.593 | 347.5 | -9.5 | -1.44 | 1.568 | 94.9 | 1.485 | -2.076 | 351.8 | 469.5 | 1.006 | --- | 0.94 | 0.941 | 160.2 | 213.0 | -1.3 | 0.902 |
| 4-2190 | 4-2490 | 0.544 | 345.6 | -10.7 | -1.48 | 1.522 | 93.8 | 1.344 | -2.929 | 353.4 | 472.9 | 1.009 | --- | 0.95 | 0.863 | 158.9 | 213.3 | -1.3 | 0.824 |
| 4-2190 | 4-2510 | 0.503 | 343.5 | -11.9 | -1.51 | 1.485 | 92.8 | 1.231 | -4.373 | 354.9 | 476.3 | 1.010 | --- | 0.97 | 0.795 | 157.6 | 213.6 | -1.3 | 0.756 |
| 4-2190 | 4-2530 | 0.470 | 341.4 | -13.1 | -1.55 | 1.453 | 91.9 | 1.139 | -7.298 | 356.5 | 479.7 | 1.011 | --- | 0.99 | 0.735 | 156.2 | 213.9 | -1.3 | 0.696 |
| 4-2190 | 4-2550 | 0.442 | 339.3 | -14.3 | -1.59 | 1.427 | 91.0 | 1.063 | 16.164 | 358.0 | 483.0 | 1.012 | --- | 1.01 | 0.682 | 154.7 | 214.1 | -1.3 | 0.642 |
| 4-2190 | 4-2570 | 0.420 | 337.2 | -15.4 | -1.63 | 1.406 | 90.3 | 1.000 | 11.448 | 359.4 | 486.2 | 1.013 | --- | 1.04 | 0.635 | 153.1 | 214.2 | -1.2 | 0.595 |
| 4-2190 | 4-2590 | 0.401 | 335.2 | -16.5 | -1.67 | 1.387 | 89.6 | 0.948 | 19.300 | 0.8 | 129.4 | --- | --- | 1.06 | 0.593 | 151.5 | 214.3 | -1.2 | 0.552 |
| 4-2190 | 4-2610 | 0.385 | 333.3 | -17.6 | -1.72 | 1.371 | 89.0 | 0.904 | 10.519 | 2.0 | 132.5 | --- | --- | 1.09 | 0.556 | 149.7 | 214.3 | -1.1 | 0.513 |
| 4-2190 | 4-2630 | 0.372 | 331.5 | -18.6 | -1.76 | 1.358 | 88.5 | 0.867 | 7.607 | 3.2 | 135.5 | --- | --- | 1.12 | 0.522 | 147.9 | 214.2 | -1.1 | 0.479 |
| 4-2190 | 4-2650 | 0.362 | 329.9 | -19.5 | -1.81 | 1.347 | 88.1 | 0.836 | 6.165 | 4.2 | 138.4 | --- | --- | 1.15 | 0.492 | 146.0 | 214.0 | -1.0 | 0.447 |
| 4-2190 | 4-2670 | 0.353 | 328.5 | -20.3 | -1.87 | 1.337 | 87.7 | 0.810 | 5.311 | 5.1 | 141.2 | --- | --- | 1.19 | 0.464 | 144.0 | 213.7 | -0.9 | 0.419 |
| 4-2190 | 4-2690 | 0.345 | 327.2 | -21.1 | -1.92 | 1.329 | 87.4 | 0.787 | 4.751 | 6.0 | 143.8 | --- | --- | 1.23 | 0.440 | 141.9 | 213.4 | -0.8 | 0.393 |
| 4-2190 | 4-2710 | 0.339 | 326.2 | -21.8 | -1.98 | 1.321 | 87.1 | 0.768 | 4.359 | 6.7 | 146.3 | --- | --- | 1.28 | 0.418 | 139.8 | 212.9 | -0.7 | 0.369 |
| 4-2190 | 4-2730 | 0.334 | 325.3 | -22.4 | -2.05 | 1.315 | 86.9 | 0.752 | 4.072 | 7.3 | 148.8 | --- | --- | 1.33 | 0.398 | 137.6 | 212.4 | -0.6 | 0.348 |
| 4-2190 | 4-2750 | 0.329 | 324.6 | -23.0 | -2.12 | 1.310 | 86.7 | 0.738 | 3.854 | 7.7 | 151.1 | --- | --- | 1.39 | 0.380 | 135.3 | 211.7 | -0.5 | 0.329 |
| 4-2190 | 4-2770 | 0.325 | 324.2 | -23.6 | -2.20 | 1.305 | 86.6 | 0.726 | 3.686 | 8.1 | 153.3 | --- | --- | 1.45 | 0.364 | 132.9 | 211.0 | -0.3 | 0.311 |
| 4-2190 | 4-2790 | 0.322 | 323.9 | -24.1 | -2.28 | 1.302 | 86.5 | 0.716 | 3.553 | 8.4 | 155.3 | --- | --- | 1.52 | 0.349 | 130.6 | 210.1 | -0.2 | 0.295 |
| 4-2190 | 4-2810 | 0.319 | 323.7 | -24.6 | -2.38 | 1.298 | 86.5 | 0.708 | 3.447 | 8.5 | 157.3 | --- | --- | 1.60 | 0.336 | 128.2 | 209.2 | 0.0 | 0.281 |
| 4-2190 | 4-2830 | 0.317 | 323.8 | -25.1 | -2.48 | 1.295 | 86.5 | 0.700 | 3.361 | 8.6 | 159.2 | --- | --- | 1.69 | 0.325 | 125.7 | 208.1 | 0.2 | 0.268 |
| 4-2190 | 4-2850 | 0.315 | 324.0 | -25.6 | -2.60 | 1.293 | 86.5 | 0.694 | 3.291 | 8.6 | 161.0 | --- | --- | 1.79 | 0.315 | 123.2 | 207.0 | 0.4 | 0.257 |
| 4-2190 | 4-2870 | 0.313 | 324.4 | -26.1 | -2.73 | 1.291 | 86.5 | 0.688 | 3.233 | 8.5 | 162.8 | --- | --- | 1.91 | 0.306 | 120.8 | 205.8 | 0.7 | 0.246 |
| 4-2190 | 4-2890 | 0.311 | 325.0 | -26.7 | -2.88 | 1.289 | 86.6 | 0.684 | 3.186 | 8.3 | 164.4 | --- | --- | 2.05 | 0.298 | 118.3 | 204.5 | 1.0 | 0.237 |
| 4-2190 | 4-2910 | 0.310 | 325.7 | -27.2 | -3.05 | 1.288 | 86.7 | 0.680 | 3.148 | 8.0 | 166.0 | --- | --- | 2.20 | 0.291 | 115.8 | 203.2 | 1.3 | 0.229 |
| 4-2190 | 4-2930 | 0.309 | 326.6 | -27.9 | -3.25 | 1.286 | 86.9 | 0.676 | 3.116 | 7.7 | 167.5 | --- | --- | 2.39 | 0.285 | 113.4 | 201.8 | 1.7 | 0.223 |
| 4-2190 | 4-2950 | 0.309 | 327.7 | -28.7 | -3.49 | 1.285 | 87.0 | 0.673 | 3.090 | 7.3 | 168.9 | --- | --- | 2.62 | 0.279 | 110.9 | 200.5 | 2.1 | 0.217 |
| 4-2190 | 4-2970 | 0.309 | 329.0 | -29.6 | -3.78 | 1.284 | 87.2 | 0.671 | 3.069 | 6.9 | 170.2 | --- | --- | 2.89 | 0.275 | 108.6 | 199.1 | 2.6 | 0.212 |
| 4-2190 | 4-2990 | 0.309 | 330.5 | -30.7 | -4.14 | 1.284 | 87.4 | 0.669 | 3.053 | 6.4 | 171.5 | --- | --- | 3.24 | 0.271 | 106.2 | 197.8 | 3.1 | 0.208 |
| 4-2190 | 4-3010 | 0.311 | 332.3 | -32.1 | -4.59 | 1.283 | 87.7 | 0.668 | 3.040 | 5.8 | 172.8 | --- | --- | 3.68 | 0.268 | 103.9 | 196.5 | 3.8 | 0.205 |
| 4-2190 | 4-3030 | 0.313 | 334.4 | -33.9 | -5.18 | 1.283 | 87.9 | 0.666 | 3.030 | 5.2 | 174.0 | --- | --- | 4.26 | 0.265 | 101.7 | 195.2 | 4.7 | 0.202 |
| 4-2190 | 4-3050 | 0.318 | 337.1 | -36.5 | -6.00 | 1.282 | 88.2 | 0.666 | 3.023 | 4.6 | 175.1 | --- | --- | 5.06 | 0.263 | 99.5 | 194.0 | 5.8 | 0.201 |
| 4-2190 | 4-3070 | 0.327 | 340.7 | -40.1 | -7.19 | 1.282 | 88.5 | 0.665 | 3.018 | 3.9 | 176.2 | --- | --- | 6.23 | 0.262 | 97.4 | 193.0 | 7.4 | 0.201 |
| 4-2190 | 4-3090 | 0.344 | 346.1 | -45.5 | -9.09 | 1.282 | 88.7 | 0.664 | 3.016 | 3.1 | 177.3 | --- | --- | 8.12 | 0.260 | 95.4 | 192.0 | 9.8 | 0.202 |
| 4-2190 | 4-3110 | 0.385 | 356.2 | -54.2 | -12.62 | 1.282 | 89.1 | 0.664 | 3.015 | 2.4 | 178.3 | --- | --- | 11.64 | 0.259 | 93.4 | 191.3 | 14.0 | 0.208 |
| 4-2190 | 4-3130 | 0.510 | 26.7 | -66.9 | -21.32 | 1.282 | 89.4 | 0.664 | 3.016 | 1.6 | 179.2 | --- | --- | 20.33 | 0.259 | 91.5 | 191.1 | 22.4 | 0.230 |
| 4-2190 | 4-3150 | 1.200 | 118.4 | -53.5 | -62.26 | 1.282 | 89.6 | 0.665 | 3.018 | 1.1 | 180.2 | --- | 5.023 | 61.25 | 0.258 | 89.6 | 192.9 | 33.9 | 0.400 |
| 4-2190 | 4-3170 | 0.670 | 289.3 | 61.7 | 31.01 | 1.282 | 90.2 | 0.665 | 3.021 | 359.5 | 541.0 | 1.012 | 5.030 | -32.03 | 0.258 | 87.9 | 187.7 | -30.6 | 0.272 |
| 4-2190 | 4-3190 | 0.403 | 316.9 | 36.8 | 13.94 | 1.283 | 90.5 | 0.665 | 3.026 | 358.7 | 541.9 | 1.012 | 5.040 | -14.97 | 0.258 | 86.2 | 187.1 | -18.3 | 0.217 |
| 4-2190 | 4-3210 | 0.342 | 325.6 | 22.8 | 8.62 | 1.283 | 90.9 | 0.666 | 3.032 | 357.8 | 542.7 | 1.012 | 5.051 | -9.66 | 0.259 | 84.6 | 186.8 | -12.5 | 0.207 |
| 4-2190 | 4-3230 | 0.321 | 330.7 | 14.8 | 6.07 | 1.283 | 91.3 | 0.667 | 3.038 | 356.8 | 543.5 | 1.012 | 5.065 | -7.13 | 0.259 | 83.0 | 186.5 | -9.3 | 0.205 |
| 4-2190 | 4-3250 | 0.312 | 334.4 | 10.0 | 4.58 | 1.283 | 91.7 | 0.668 | 3.046 | 355.8 | 544.3 | 1.011 | 5.080 | -5.65 | 0.260 | 81.5 | 186.3 | -7.5 | 0.205 |
| 4-2190 | 4-3270 | 0.309 | 337.5 | 6.9 | 3.60 | 1.284 | 92.1 | 0.669 | 3.054 | 354.8 | 545.0 | 1.011 | 5.097 | -4.69 | 0.261 | 80.1 | 186.2 | -6.2 | 0.206 |
| 4-2190 | 4-3290 | 0.308 | 340.1 | 4.8 | 2.91 | 1.284 | 92.5 | 0.670 | 3.063 | 353.8 | 545.7 | 1.010 | 5.115 | -4.01 | 0.262 | 78.7 | 186.2 | -5.3 | 0.207 |
| 4-2190 | 4-3310 | 0.309 | 342.6 | 3.4 | 2.39 | 1.285 | 92.9 | 0.672 | 3.072 | 352.7 | 546.4 | 1.009 | 5.135 | -3.50 | 0.263 | 77.3 | 186.2 | -4.6 | 0.209 |
| 4-2190 | 4-3330 | 0.310 | 344.9 | 2.5 | 1.99 | 1.285 | 93.4 | 0.673 | 3.082 | 351.6 | 547.1 | 1.008 | 5.156 | -3.11 | 0.264 | 76.0 | 186.4 | -4.1 | 0.211 |
| 4-2190 | 4-3350 | 0.312 | 347.0 | 1.9 | 1.67 | 1.285 | 93.8 | 0.674 | 3.092 | 350.5 | 547.7 | 1.007 | 5.178 | -2.81 | 0.265 | 74.8 | 186.6 | -3.7 | 0.213 |
| 4-2190 | 4-3370 | 0.315 | 349.1 | 1.6 | 1.41 | 1.286 | 94.3 | 0.676 | 3.103 | 349.4 | 548.3 | 1.005 | 5.201 | -2.56 | 0.266 | 73.6 | 186.8 | -3.4 | 0.215 |
| 4-2190 | 4-3390 | 0.318 | 351.1 | 1.4 | 1.19 | 1.286 | 94.7 | 0.678 | 3.115 | 348.3 | 548.9 | 1.004 | 5.225 | -2.35 | 0.267 | 72.4 | 187.2 | -3.1 | 0.217 |
| 4-2190 | 4-3410 | 0.321 | 353.1 | 1.4 | 1.01 | 1.287 | 95.2 | 0.679 | 3.126 | 347.1 | 549.5 | 1.002 | 5.251 | -2.18 | 0.268 | 71.3 | 187.6 | -2.9 | 0.220 |
| 4-2190 | 4-3430 | 0.325 | 355.0 | 1.5 | 0.84 | 1.287 | 95.7 | 0.681 | 3.138 | 345.9 | 550.0 | 1.000 | 5.277 | -2.03 | 0.270 | 70.2 | 188.1 | -2.8 | 0.222 |
| 4-2190 | 4-3450 | 0.329 | 356.9 | 1.6 | 0.70 | 1.288 | 96.2 | 0.683 | 3.151 | 344.7 | 550.5 | 0.998 | 5.303 | -1.90 | 0.271 | 69.2 | 188.6 | -2.6 | 0.225 |
| 4-2190 | 4-3470 | 0.333 | 358.7 | 1.9 | 0.58 | 1.288 | 96.7 | 0.685 | 3.163 | 343.5 | 551.1 | 0.996 | 5.331 | -1.79 | 0.272 | 68.1 | 189.2 | -2.5 | 0.228 |
| 4-2190 | 4-3490 | 0.338 | 0.5 | 2.2 | 0.47 | 1.289 | 97.2 | 0.687 | 3.176 | 342.3 | 551.5 | 0.993 | 5.359 | -1.70 | 0.274 | 67.2 | 189.9 | -2.4 | 0.230 |
| 4-2190 | 4-3510 | 0.343 | 2.3 | 2.5 | 0.37 | 1.289 | 97.7 | 0.690 | 3.189 | 341.1 | 552.0 | 0.990 | 5.388 | -1.61 | 0.275 | 66.2 | 190.6 | -2.3 | 0.233 |
| 4-2190 | 4-3530 | 0.349 | 4.0 | 2.9 | 0.29 | 1.290 | 98.2 | 0.692 | 3.203 | 339.8 | 552.5 | 0.987 | 5.418 | -1.54 | 0.276 | 65.3 | 191.3 | -2.2 | 0.235 |
| 4-2190 | 4-3550 | 0.355 | 5.6 | 3.2 | 0.20 | 1.290 | 98.7 | 0.694 | 3.216 | 338.6 | 552.9 | 0.984 | 5.448 | -1.47 | 0.278 | 64.4 | 192.1 | -2.2 | 0.238 |
| 4-2190 | 4-3570 | 0.361 | 7.3 | 3.7 | 0.13 | 1.291 | 99.3 | 0.696 | 3.230 | 337.3 | 553.3 | 0.980 | 5.479 | -1.41 | 0.279 | 63.5 | 193.0 | -2.2 | 0.241 |
| 4-2190 | 4-3590 | 0.367 | 8.9 | 4.1 | 0.06 | 1.291 | 99.8 | 0.699 | 3.243 | 336.0 | 553.7 | 0.977 | 5.510 | -1.35 | 0.281 | 62.7 | 193.8 | -2.1 | 0.243 |
| 4-2190 | 4-3610 | 0.373 | 10.5 | 4.5 | 0.00 | 1.292 | 100.4 | 0.701 | 3.257 | 334.8 | 554.1 | 0.973 | 5.542 | -1.31 | 0.282 | 61.8 | 194.7 | -2.1 | 0.246 |
| 4-2190 | 4-3630 | 0.380 | 12.0 | 5.0 | -0.06 | 1.292 | 100.9 | 0.704 | 3.271 | 333.5 | 554.5 | 0.968 | 5.575 | -1.26 | 0.283 | 61.0 | 195.7 | -2.1 | 0.249 |
| 4-2190 | 4-3650 | 0.387 | 13.5 | 5.4 | -0.11 | 1.293 | 101.5 | 0.707 | 3.286 | 332.1 | 554.9 | 0.964 | 5.607 | -1.22 | 0.285 | 60.2 | 196.6 | -2.1 | 0.252 |
| 4-2190 | 4-3670 | 0.395 | 15.0 | 5.8 | -0.16 | 1.293 | 102.1 | 0.709 | 3.300 | 330.8 | 555.2 | 0.959 | 5.641 | -1.18 | 0.286 | 59.5 | 197.6 | -2.1 | 0.254 |
| 4-2190 | 4-3690 | 0.402 | 16.5 | 6.3 | -0.21 | 1.294 | 102.6 | 0.712 | 3.314 | 329.5 | 555.5 | 0.954 | 5.675 | -1.15 | 0.287 | 58.7 | 198.7 | -2.1 | 0.257 |
| 4-2190 | 4-3710 | 0.410 | 17.9 | 6.7 | -0.26 | 1.294 | 103.2 | 0.715 | 3.329 | 328.2 | 555.9 | 0.949 | 5.709 | -1.12 | 0.289 | 58.0 | 199.7 | -2.1 | 0.260 |
| 4-2190 | 4-3730 | 0.418 | 19.3 | 7.2 | -0.30 | 1.295 | 103.8 | 0.718 | 3.343 | 326.8 | 556.2 | 0.943 | 5.743 | -1.09 | 0.290 | 57.2 | 200.8 | -2.1 | 0.262 |
| 4-2190 | 4-3750 | 0.427 | 20.6 | 7.6 | -0.34 | 1.295 | 104.4 | 0.721 | 3.358 | 325.5 | 556.5 | 0.938 | 5.778 | -1.07 | 0.291 | 56.5 | 201.9 | -2.1 | 0.265 |
| 4-2190 | 4-3770 | 0.435 | 22.0 | 8.1 | -0.38 | 1.296 | 105.0 | 0.724 | 3.373 | 324.1 | 556.7 | 0.932 | 5.814 | -1.04 | 0.293 | 55.8 | 203.0 | -2.1 | 0.268 |
| 4-2190 | 4-3790 | 0.444 | 23.3 | 8.5 | -0.41 | 1.296 | 105.6 | 0.727 | 3.388 | 322.7 | 557.0 | 0.925 | 5.850 | -1.02 | 0.294 | 55.1 | 204.2 | -2.2 | 0.271 |
| 4-2200 | 4-2460 | 0.621 | 344.5 | -10.3 | -1.33 | 1.606 | 90.3 | 1.614 | -1.651 | 359.6 | 466.8 | 1.014 | --- | 0.68 | 1.004 | 160.9 | 213.2 | -1.5 | 0.964 |
| 4-2200 | 4-2480 | 0.567 | 342.2 | -11.6 | -1.36 | 1.552 | 89.3 | 1.444 | -2.284 | 1.3 | 110.3 | --- | --- | 0.69 | 0.917 | 159.7 | 213.5 | -1.4 | 0.877 |
| 4-2200 | 4-2500 | 0.524 | 339.7 | -12.9 | -1.38 | 1.509 | 88.3 | 1.309 | -3.284 | 3.0 | 113.8 | --- | --- | 0.69 | 0.841 | 158.5 | 213.8 | -1.4 | 0.802 |
| 4-2200 | 4-2520 | 0.490 | 337.1 | -14.1 | -1.40 | 1.473 | 87.5 | 1.200 | -5.066 | 4.6 | 117.3 | --- | --- | 0.70 | 0.775 | 157.1 | 214.1 | -1.4 | 0.736 |
| 4-2200 | 4-2540 | 0.462 | 334.6 | -15.3 | -1.43 | 1.443 | 86.7 | 1.112 | -9.064 | 6.3 | 120.8 | --- | --- | 0.71 | 0.717 | 155.7 | 214.3 | -1.4 | 0.677 |
| 4-2200 | 4-2560 | 0.439 | 332.2 | -16.4 | -1.45 | 1.418 | 86.0 | 1.039 | 25.697 | 7.9 | 124.2 | --- | --- | 0.72 | 0.665 | 154.2 | 214.4 | -1.4 | 0.625 |
| 4-2200 | 4-2580 | 0.421 | 329.9 | -17.5 | -1.48 | 1.397 | 85.4 | 0.980 | 49.935 | 9.4 | 127.6 | --- | --- | 0.74 | 0.620 | 152.6 | 214.4 | -1.4 | 0.579 |
| 4-2200 | 4-2600 | 0.406 | 327.7 | -18.5 | -1.51 | 1.380 | 84.8 | 0.931 | 14.468 | 10.8 | 130.8 | --- | --- | 0.75 | 0.579 | 150.9 | 214.4 | -1.3 | 0.538 |
| 4-2200 | 4-2620 | 0.394 | 325.6 | -19.4 | -1.54 | 1.365 | 84.3 | 0.889 | 9.075 | 12.1 | 133.9 | --- | --- | 0.76 | 0.542 | 149.1 | 214.3 | -1.3 | 0.500 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2200 | 4-2640 | 0.384 | 323.8 | -20.2 | -1.56 | 1.352 | 83.9 | 0.855 | 6.909 | 13.3 | 136.9 | --- | --- | 0.78 | 0.509 | 147.3 | 214.2 | -1.3 | 0.466 |
| 4-2200 | 4-2660 | 0.376 | 322.2 | -20.9 | -1.60 | 1.341 | 83.5 | 0.826 | 5.750 | 14.3 | 139.8 | --- | --- | 0.80 | 0.480 | 145.3 | 213.9 | -1.2 | 0.436 |
| 4-2200 | 4-2680 | 0.369 | 320.8 | -21.5 | -1.63 | 1.332 | 83.2 | 0.802 | 5.035 | 15.3 | 142.6 | --- | --- | 0.82 | 0.453 | 143.3 | 213.6 | -1.2 | 0.408 |
| 4-2200 | 4-2700 | 0.363 | 319.6 | -22.0 | -1.66 | 1.324 | 83.0 | 0.781 | 4.553 | 16.1 | 145.2 | --- | --- | 0.84 | 0.429 | 141.2 | 213.1 | -1.1 | 0.383 |
| 4-2200 | 4-2720 | 0.359 | 318.5 | -22.5 | -1.70 | 1.317 | 82.8 | 0.764 | 4.210 | 16.7 | 147.7 | --- | --- | 0.86 | 0.408 | 139.0 | 212.6 | -1.0 | 0.361 |
| 4-2200 | 4-2740 | 0.354 | 317.7 | -22.9 | -1.73 | 1.311 | 82.6 | 0.749 | 3.956 | 17.3 | 150.1 | --- | --- | 0.88 | 0.389 | 136.8 | 212.0 | -0.9 | 0.340 |
| 4-2200 | 4-2760 | 0.351 | 317.1 | -23.3 | -1.77 | 1.306 | 82.5 | 0.736 | 3.762 | 17.7 | 152.4 | --- | --- | 0.91 | 0.371 | 134.4 | 211.2 | -0.8 | 0.321 |
| 4-2200 | 4-2780 | 0.347 | 316.7 | -23.6 | -1.82 | 1.302 | 82.4 | 0.725 | 3.611 | 18.0 | 154.5 | --- | --- | 0.94 | 0.356 | 132.1 | 210.4 | -0.7 | 0.305 |
| 4-2200 | 4-2800 | 0.344 | 316.4 | -23.9 | -1.86 | 1.298 | 82.4 | 0.716 | 3.491 | 18.2 | 156.6 | --- | --- | 0.98 | 0.342 | 129.7 | 209.5 | -0.6 | 0.289 |
| 4-2200 | 4-2820 | 0.341 | 316.3 | -24.2 | -1.91 | 1.295 | 82.4 | 0.708 | 3.394 | 18.4 | 158.5 | --- | --- | 1.01 | 0.330 | 127.2 | 208.5 | -0.5 | 0.276 |
| 4-2200 | 4-2840 | 0.339 | 316.3 | -24.4 | -1.96 | 1.293 | 82.4 | 0.701 | 3.316 | 18.4 | 160.3 | --- | --- | 1.05 | 0.319 | 124.7 | 207.4 | -0.4 | 0.264 |
| 4-2200 | 4-2860 | 0.336 | 316.5 | -24.7 | -2.02 | 1.290 | 82.5 | 0.695 | 3.253 | 18.3 | 162.1 | --- | --- | 1.10 | 0.309 | 122.2 | 206.2 | -0.2 | 0.253 |
| 4-2200 | 4-2880 | 0.334 | 316.8 | -24.9 | -2.08 | 1.288 | 82.6 | 0.690 | 3.201 | 18.1 | 163.8 | --- | --- | 1.15 | 0.300 | 119.7 | 205.0 | -0.1 | 0.243 |
| 4-2200 | 4-2900 | 0.331 | 317.3 | -25.1 | -2.15 | 1.287 | 82.7 | 0.685 | 3.159 | 17.9 | 165.3 | --- | --- | 1.20 | 0.293 | 117.2 | 203.7 | 0.1 | 0.234 |
| 4-2200 | 4-2920 | 0.329 | 317.9 | -25.3 | -2.22 | 1.285 | 82.9 | 0.682 | 3.124 | 17.6 | 166.8 | --- | --- | 1.27 | 0.286 | 114.8 | 202.4 | 0.3 | 0.227 |
| 4-2200 | 4-2940 | 0.327 | 318.6 | -25.5 | -2.31 | 1.284 | 83.0 | 0.678 | 3.096 | 17.2 | 168.3 | --- | --- | 1.34 | 0.281 | 112.3 | 201.0 | 0.5 | 0.220 |
| 4-2200 | 4-2960 | 0.325 | 319.4 | -25.7 | -2.40 | 1.283 | 83.2 | 0.676 | 3.073 | 16.8 | 169.7 | --- | --- | 1.42 | 0.276 | 109.9 | 199.6 | 0.7 | 0.215 |
| 4-2200 | 4-2980 | 0.323 | 320.4 | -25.9 | -2.50 | 1.283 | 83.5 | 0.673 | 3.055 | 16.3 | 171.0 | --- | --- | 1.52 | 0.272 | 107.5 | 198.3 | 0.9 | 0.210 |
| 4-2200 | 4-3000 | 0.321 | 321.4 | -26.1 | -2.62 | 1.282 | 83.7 | 0.671 | 3.040 | 15.7 | 172.2 | --- | --- | 1.63 | 0.268 | 105.2 | 197.0 | 1.1 | 0.206 |
| 4-2200 | 4-3020 | 0.319 | 322.6 | -26.4 | -2.76 | 1.281 | 83.9 | 0.670 | 3.029 | 15.1 | 173.4 | --- | --- | 1.75 | 0.266 | 102.9 | 195.7 | 1.4 | 0.203 |
| 4-2200 | 4-3040 | 0.318 | 323.9 | -26.8 | -2.92 | 1.281 | 84.2 | 0.669 | 3.021 | 14.5 | 174.6 | --- | --- | 1.90 | 0.263 | 100.7 | 194.5 | 1.7 | 0.201 |
| 4-2200 | 4-3060 | 0.317 | 325.4 | -27.2 | -3.12 | 1.281 | 84.5 | 0.668 | 3.016 | 13.8 | 175.7 | --- | --- | 2.09 | 0.261 | 98.6 | 193.3 | 2.0 | 0.199 |
| 4-2200 | 4-3080 | 0.316 | 327.0 | -27.8 | -3.35 | 1.281 | 84.8 | 0.667 | 3.013 | 13.0 | 176.7 | --- | --- | 2.31 | 0.260 | 96.5 | 192.3 | 2.4 | 0.198 |
| 4-2200 | 4-3100 | 0.315 | 328.7 | -28.5 | -3.64 | 1.281 | 85.1 | 0.666 | 3.012 | 12.3 | 177.7 | --- | --- | 2.59 | 0.259 | 94.5 | 191.3 | 2.8 | 0.197 |
| 4-2200 | 4-3120 | 0.315 | 330.7 | -29.5 | -4.00 | 1.281 | 85.4 | 0.666 | 3.012 | 11.4 | 178.7 | --- | --- | 2.94 | 0.258 | 92.6 | 190.4 | 3.3 | 0.197 |
| 4-2200 | 4-3140 | 0.318 | 333.0 | -30.9 | -4.48 | 1.281 | 85.8 | 0.666 | 3.014 | 10.6 | 179.6 | --- | --- | 3.41 | 0.258 | 90.7 | 189.7 | 4.0 | 0.197 |
| 4-2200 | 4-3160 | 0.319 | 335.6 | -32.9 | -5.15 | 1.281 | 86.1 | 0.666 | 3.017 | 9.7 | 180.5 | --- | 5.026 | 4.07 | 0.258 | 88.9 | 189.0 | 4.8 | 0.198 |
| 4-2200 | 4-3180 | 0.324 | 338.9 | -35.8 | -6.12 | 1.281 | 86.5 | 0.666 | 3.022 | 8.8 | 181.4 | --- | 5.034 | 5.03 | 0.258 | 87.2 | 188.5 | 6.1 | 0.199 |
| 4-2200 | 4-3200 | 0.336 | 343.6 | -40.6 | -7.70 | 1.281 | 86.9 | 0.666 | 3.027 | 7.9 | 182.2 | --- | 5.045 | 6.60 | 0.258 | 85.6 | 188.2 | 8.0 | 0.202 |
| 4-2200 | 4-3220 | 0.365 | 351.5 | -48.7 | -10.70 | 1.282 | 87.2 | 0.667 | 3.034 | 6.9 | 183.0 | --- | 5.057 | 9.59 | 0.259 | 84.0 | 188.1 | 11.5 | 0.207 |
| 4-2200 | 4-3240 | 0.468 | 14.5 | -63.7 | -18.46 | 1.282 | 87.6 | 0.667 | 3.041 | 6.0 | 183.8 | --- | 5.071 | 17.34 | 0.260 | 82.5 | 188.9 | 19.4 | 0.225 |
| 4-2200 | 4-3260 | 1.245 | 127.3 | -55.1 | -65.05 | 1.282 | 87.9 | 0.668 | 3.050 | 5.3 | 184.6 | --- | 5.087 | 63.92 | 0.260 | 81.0 | 195.7 | 33.2 | 0.413 |
| 4-2200 | 4-3280 | 0.540 | 301.7 | 52.3 | 23.12 | 1.283 | 88.5 | 0.669 | 3.058 | 3.7 | 185.3 | --- | 5.104 | -24.26 | 0.261 | 79.6 | 187.1 | -25.5 | 0.249 |
| 4-2200 | 4-3300 | 0.360 | 323.2 | 27.9 | 10.34 | 1.283 | 88.9 | 0.670 | 3.068 | 2.7 | 185.9 | --- | 5.122 | -11.49 | 0.262 | 78.3 | 186.4 | -14.0 | 0.217 |
| 4-2200 | 4-3320 | 0.322 | 330.8 | 16.0 | 6.33 | 1.283 | 89.3 | 0.671 | 3.078 | 1.6 | 186.6 | --- | 5.142 | -7.49 | 0.263 | 77.0 | 186.5 | -9.4 | 0.212 |
| 4-2200 | 4-3340 | 0.310 | 335.5 | 9.7 | 4.39 | 1.284 | 89.8 | 0.672 | 3.089 | 0.5 | 187.3 | --- | 5.163 | -5.56 | 0.264 | 75.7 | 186.7 | -7.1 | 0.212 |
| 4-2200 | 4-3360 | 0.305 | 339.1 | 6.0 | 3.24 | 1.284 | 90.2 | 0.673 | 3.100 | 359.4 | 547.9 | 1.014 | 5.185 | -4.42 | 0.266 | 74.5 | 186.9 | -5.7 | 0.214 |
| 4-2200 | 4-3380 | 0.304 | 342.0 | 3.8 | 2.48 | 1.285 | 90.7 | 0.674 | 3.111 | 358.3 | 548.5 | 1.014 | 5.208 | -3.67 | 0.267 | 73.4 | 187.3 | -4.8 | 0.215 |
| 4-2200 | 4-3400 | 0.304 | 344.7 | 2.4 | 1.95 | 1.285 | 91.1 | 0.675 | 3.123 | 357.2 | 549.1 | 1.014 | 5.232 | -3.15 | 0.268 | 72.3 | 187.7 | -4.1 | 0.217 |
| 4-2200 | 4-3420 | 0.304 | 347.2 | 1.6 | 1.54 | 1.286 | 91.6 | 0.677 | 3.135 | 356.0 | 549.6 | 1.013 | 5.257 | -2.75 | 0.270 | 71.2 | 188.1 | -3.6 | 0.219 |
| 4-2200 | 4-3440 | 0.306 | 349.6 | 1.1 | 1.23 | 1.286 | 92.1 | 0.678 | 3.148 | 354.8 | 550.2 | 1.012 | 5.283 | -2.45 | 0.271 | 70.2 | 188.6 | -3.3 | 0.222 |
| 4-2200 | 4-3460 | 0.307 | 351.8 | 0.9 | 0.98 | 1.287 | 92.6 | 0.680 | 3.160 | 353.6 | 550.7 | 1.012 | 5.309 | -2.21 | 0.272 | 69.2 | 189.2 | -3.0 | 0.224 |
| 4-2200 | 4-3480 | 0.310 | 354.0 | 0.9 | 0.78 | 1.287 | 93.1 | 0.682 | 3.173 | 352.4 | 551.2 | 1.011 | 5.336 | -2.02 | 0.274 | 68.2 | 189.8 | -2.8 | 0.226 |
| 4-2200 | 4-3500 | 0.313 | 356.1 | 1.0 | 0.60 | 1.288 | 93.6 | 0.683 | 3.187 | 351.2 | 551.7 | 1.009 | 5.364 | -1.85 | 0.275 | 67.3 | 190.5 | -2.6 | 0.229 |
| 4-2200 | 4-3520 | 0.316 | 358.2 | 1.2 | 0.46 | 1.288 | 94.1 | 0.685 | 3.200 | 350.0 | 552.2 | 1.008 | 5.393 | -1.72 | 0.277 | 66.4 | 191.2 | -2.5 | 0.231 |
| 4-2200 | 4-3540 | 0.319 | 0.2 | 1.5 | 0.33 | 1.289 | 94.6 | 0.687 | 3.214 | 348.7 | 552.6 | 1.006 | 5.422 | -1.60 | 0.278 | 65.5 | 192.0 | -2.4 | 0.233 |
| 4-2200 | 4-3560 | 0.323 | 2.2 | 1.9 | 0.22 | 1.289 | 95.1 | 0.689 | 3.228 | 347.5 | 553.0 | 1.004 | 5.451 | -1.50 | 0.279 | 64.7 | 192.8 | -2.3 | 0.236 |
| 4-2200 | 4-3580 | 0.327 | 4.1 | 2.3 | 0.13 | 1.290 | 95.6 | 0.691 | 3.242 | 346.2 | 553.5 | 1.002 | 5.481 | -1.42 | 0.281 | 63.9 | 193.6 | -2.2 | 0.238 |
| 4-2200 | 4-3600 | 0.331 | 6.0 | 2.8 | 0.04 | 1.290 | 96.2 | 0.693 | 3.256 | 345.0 | 553.9 | 1.000 | 5.512 | -1.34 | 0.282 | 63.1 | 194.5 | -2.2 | 0.241 |
| 4-2200 | 4-3620 | 0.336 | 7.9 | 3.3 | -0.04 | 1.291 | 96.7 | 0.695 | 3.270 | 343.7 | 554.3 | 0.997 | 5.543 | -1.27 | 0.284 | 62.3 | 195.4 | -2.1 | 0.243 |
| 4-2200 | 4-3640 | 0.341 | 9.7 | 3.7 | -0.11 | 1.291 | 97.2 | 0.697 | 3.284 | 342.4 | 554.7 | 0.995 | 5.574 | -1.21 | 0.285 | 61.5 | 196.3 | -2.1 | 0.246 |
| 4-2200 | 4-3660 | 0.347 | 11.5 | 4.3 | -0.17 | 1.292 | 97.8 | 0.699 | 3.299 | 341.1 | 555.0 | 0.992 | 5.606 | -1.16 | 0.286 | 60.8 | 197.3 | -2.1 | 0.248 |
| 4-2200 | 4-3680 | 0.352 | 13.3 | 4.8 | -0.23 | 1.292 | 98.3 | 0.702 | 3.314 | 339.8 | 555.4 | 0.988 | 5.639 | -1.11 | 0.288 | 60.1 | 198.3 | -2.1 | 0.251 |
| 4-2200 | 4-3700 | 0.358 | 15.0 | 5.3 | -0.28 | 1.293 | 98.9 | 0.704 | 3.328 | 338.5 | 555.7 | 0.985 | 5.672 | -1.07 | 0.289 | 59.4 | 199.3 | -2.1 | 0.253 |
| 4-2200 | 4-3720 | 0.365 | 16.7 | 5.8 | -0.33 | 1.293 | 99.4 | 0.707 | 3.343 | 337.1 | 556.1 | 0.981 | 5.705 | -1.03 | 0.290 | 58.7 | 200.4 | -2.1 | 0.256 |
| 4-2200 | 4-3740 | 0.371 | 18.3 | 6.4 | -0.38 | 1.294 | 100.0 | 0.709 | 3.358 | 335.8 | 556.4 | 0.977 | 5.738 | -1.00 | 0.292 | 58.0 | 201.4 | -2.1 | 0.258 |
| 4-2200 | 4-3760 | 0.378 | 19.9 | 6.9 | -0.42 | 1.295 | 100.6 | 0.712 | 3.373 | 334.5 | 556.7 | 0.973 | 5.772 | -0.97 | 0.293 | 57.3 | 202.5 | -2.1 | 0.261 |
| 4-2200 | 4-3780 | 0.385 | 21.5 | 7.4 | -0.46 | 1.295 | 101.2 | 0.714 | 3.388 | 333.1 | 557.0 | 0.968 | 5.807 | -0.94 | 0.295 | 56.7 | 203.6 | -2.1 | 0.263 |
| 4-2200 | 4-3800 | 0.393 | 23.1 | 7.9 | -0.50 | 1.296 | 101.7 | 0.717 | 3.402 | 331.8 | 557.3 | 0.964 | 5.841 | -0.91 | 0.296 | 56.0 | 204.8 | -2.1 | 0.265 |
| 4-2210 | 4-2470 | 0.615 | 338.4 | -12.7 | -1.29 | 1.587 | 84.2 | 1.553 | -1.822 | 9.5 | 108.1 | --- | --- | 0.46 | 0.976 | 160.7 | 213.6 | -1.5 | 0.936 |
| 4-2210 | 4-2490 | 0.568 | 335.6 | -13.9 | -1.31 | 1.536 | 83.4 | 1.392 | -2.562 | 11.4 | 111.7 | --- | --- | 0.46 | 0.891 | 159.5 | 213.8 | -1.5 | 0.852 |
| 4-2210 | 4-2510 | 0.532 | 332.8 | -15.2 | -1.32 | 1.495 | 82.6 | 1.264 | -3.782 | 13.2 | 115.4 | --- | --- | 0.46 | 0.817 | 158.2 | 214.0 | -1.5 | 0.779 |
| 4-2210 | 4-2530 | 0.503 | 330.0 | -16.3 | -1.34 | 1.460 | 81.9 | 1.163 | -6.130 | 15.1 | 119.1 | --- | --- | 0.47 | 0.753 | 156.8 | 214.2 | -1.5 | 0.715 |
| 4-2210 | 4-2550 | 0.480 | 327.4 | -17.4 | -1.35 | 1.432 | 81.3 | 1.08 | 012.367 | 16.8 | 122.7 | --- | --- | 0.47 | 0.696 | 155.4 | 214.3 | -1.5 | 0.658 |
| 4-2210 | 4-2570 | 0.462 | 324.9 | -18.3 | -1.37 | 1.408 | 80.7 | 1.01 | 374.525 | 18.5 | 126.2 | --- | --- | 0.47 | 0.646 | 153.8 | 214.4 | -1.5 | 0.608 |
| 4-2210 | 4-2590 | 0.448 | 322.7 | -19.2 | -1.38 | 1.388 | 80.2 | 0.95 | 823.668 | 20.0 | 129.6 | --- | --- | 0.48 | 0.601 | 152.2 | 214.3 | -1.5 | 0.563 |
| 4-2210 | 4-2610 | 0.436 | 320.6 | -20.0 | -1.40 | 1.372 | 79.8 | 0.91 | 311.289 | 21.5 | 132.8 | --- | --- | 0.48 | 0.562 | 150.5 | 214.2 | -1.5 | 0.523 |
| 4-2210 | 4-2630 | 0.427 | 318.7 | -20.6 | -1.42 | 1.357 | 79.4 | 0.875 | 7.854 | 22.8 | 136.0 | --- | --- | 0.49 | 0.526 | 148.7 | 214.1 | -1.4 | 0.487 |
| 4-2210 | 4-2650 | 0.419 | 317.1 | -21.2 | -1.44 | 1.345 | 79.1 | 0.844 | 6.255 | 24.0 | 139.0 | --- | --- | 0.50 | 0.494 | 146.7 | 213.8 | -1.4 | 0.454 |
| 4-2210 | 4-2670 | 0.413 | 315.7 | -21.7 | -1.45 | 1.335 | 78.8 | 0.818 | 5.339 | 25.0 | 141.8 | --- | --- | 0.51 | 0.465 | 144.8 | 213.5 | -1.4 | 0.425 |
| 4-2210 | 4-2690 | 0.408 | 314.5 | -22.1 | -1.47 | 1.326 | 78.6 | 0.796 | 4.749 | 25.9 | 144.5 | --- | --- | 0.51 | 0.440 | 142.7 | 213.0 | -1.3 | 0.398 |
| 4-2210 | 4-2710 | 0.403 | 313.5 | -22.4 | -1.49 | 1.319 | 78.4 | 0.777 | 4.343 | 26.6 | 147.1 | --- | --- | 0.52 | 0.417 | 140.5 | 212.5 | -1.3 | 0.374 |
| 4-2210 | 4-2730 | 0.399 | 312.7 | -22.7 | -1.51 | 1.313 | 78.3 | 0.761 | 4.048 | 27.2 | 149.6 | --- | --- | 0.53 | 0.396 | 138.3 | 211.9 | -1.2 | 0.352 |
| 4-2210 | 4-2750 | 0.395 | 312.1 | -23.0 | -1.53 | 1.307 | 78.2 | 0.748 | 3.827 | 27.7 | 151.9 | --- | --- | 0.55 | 0.377 | 136.0 | 211.1 | -1.2 | 0.333 |
| 4-2210 | 4-2770 | 0.391 | 311.6 | -23.2 | -1.55 | 1.302 | 78.1 | 0.736 | 3.657 | 28.1 | 154.1 | --- | --- | 0.56 | 0.361 | 133.6 | 210.3 | -1.1 | 0.315 |
| 4-2210 | 4-2790 | 0.388 | 311.3 | -23.4 | -1.58 | 1.298 | 78.1 | 0.726 | 3.523 | 28.3 | 156.1 | --- | --- | 0.57 | 0.346 | 131.2 | 209.4 | -1.0 | 0.299 |
| 4-2210 | 4-2810 | 0.385 | 311.1 | -23.6 | -1.60 | 1.295 | 78.2 | 0.718 | 3.417 | 28.4 | 158.1 | --- | --- | 0.59 | 0.333 | 128.7 | 208.4 | -0.9 | 0.284 |
| 4-2210 | 4-2830 | 0.382 | 311.1 | -23.7 | -1.62 | 1.292 | 78.2 | 0.711 | 3.332 | 28.5 | 160.0 | --- | --- | 0.60 | 0.321 | 126.2 | 207.4 | -0.8 | 0.271 |
| 4-2210 | 4-2850 | 0.379 | 311.2 | -23.8 | -1.65 | 1.290 | 78.3 | 0.704 | 3.262 | 28.4 | 161.7 | --- | --- | 0.62 | 0.310 | 123.7 | 206.2 | -0.7 | 0.260 |
| 4-2210 | 4-2870 | 0.376 | 311.4 | -23.9 | -1.68 | 1.288 | 78.4 | 0.699 | 3.206 | 28.3 | 163.4 | --- | --- | 0.64 | 0.301 | 121.1 | 205.0 | -0.6 | 0.250 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2210 | 4-2890 | 0.373 | 311.8 | -23.9 | -1.71 | 1.286 | 78.6 | 0.694 | 3.160 | 28.0 | 165.0 | --- | --- | 0.66 | 0.293 | 118.6 | 203.7 | -0.5 | 0.241 |
| 4-2210 | 4-2910 | 0.370 | 312.2 | -24.0 | -1.74 | 1.284 | 78.7 | 0.690 | 3.123 | 27.7 | 166.5 | --- | --- | 0.68 | 0.286 | 116.1 | 202.4 | -0.4 | 0.233 |
| 4-2210 | 4-2930 | 0.366 | 312.7 | -24.0 | -1.77 | 1.283 | 78.9 | 0.687 | 3.092 | 27.4 | 167.9 | --- | --- | 0.71 | 0.280 | 113.6 | 201.1 | -0.3 | 0.226 |
| 4-2210 | 4-2950 | 0.363 | 313.4 | -24.0 | -1.81 | 1.282 | 79.1 | 0.684 | 3.068 | 26.9 | 169.3 | --- | --- | 0.74 | 0.275 | 111.1 | 199.7 | -0.2 | 0.220 |
| 4-2210 | 4-2970 | 0.360 | 314.1 | -24.1 | -1.85 | 1.281 | 79.3 | 0.681 | 3.048 | 26.4 | 170.6 | --- | --- | 0.77 | 0.271 | 108.7 | 198.4 | -0.0 | 0.215 |
| 4-2210 | 4-2990 | 0.357 | 314.9 | -24.1 | -1.89 | 1.281 | 79.6 | 0.679 | 3.033 | 25.9 | 171.9 | --- | --- | 0.81 | 0.267 | 106.3 | 197.1 | 0.1 | 0.210 |
| 4-2210 | 4-3010 | 0.354 | 315.8 | -24.1 | -1.94 | 1.280 | 79.8 | 0.677 | 3.021 | 25.2 | 173.1 | --- | --- | 0.85 | 0.264 | 104.0 | 195.8 | 0.2 | 0.207 |
| 4-2210 | 4-3030 | 0.351 | 316.8 | -24.1 | -1.99 | 1.280 | 80.1 | 0.675 | 3.013 | 24.6 | 174.2 | --- | --- | 0.89 | 0.262 | 101.7 | 194.6 | 0.3 | 0.204 |
| 4-2210 | 4-3050 | 0.348 | 317.8 | -24.1 | -2.05 | 1.279 | 80.4 | 0.674 | 3.007 | 23.9 | 175.3 | --- | --- | 0.94 | 0.260 | 99.5 | 193.5 | 0.5 | 0.202 |
| 4-2210 | 4-3070 | 0.345 | 319.0 | -24.1 | -2.12 | 1.279 | 80.7 | 0.673 | 3.003 | 23.1 | 176.4 | --- | --- | 1.00 | 0.258 | 97.4 | 192.4 | 0.6 | 0.200 |
| 4-2210 | 4-3090 | 0.342 | 320.2 | -24.1 | -2.19 | 1.279 | 81.0 | 0.672 | 3.002 | 22.3 | 177.4 | --- | --- | 1.07 | 0.257 | 95.4 | 191.4 | 0.8 | 0.199 |
| 4-2210 | 4-3110 | 0.339 | 321.5 | -24.1 | -2.28 | 1.279 | 81.4 | 0.671 | 3.002 | 21.5 | 178.3 | --- | --- | 1.15 | 0.257 | 93.4 | 190.5 | 0.9 | 0.198 |
| 4-2210 | 4-3130 | 0.336 | 322.9 | -24.1 | -2.38 | 1.279 | 81.7 | 0.671 | 3.004 | 20.7 | 179.3 | --- | --- | 1.24 | 0.256 | 91.5 | 189.7 | 1.1 | 0.198 |
| 4-2210 | 4-3150 | 0.333 | 324.4 | -24.2 | -2.49 | 1.280 | 82.1 | 0.670 | 3.007 | 19.8 | 180.2 | --- | 5.023 | 1.34 | 0.256 | 89.7 | 189.0 | 1.3 | 0.198 |
| 4-2210 | 4-3170 | 0.331 | 325.9 | -24.4 | -2.63 | 1.280 | 82.4 | 0.670 | 3.012 | 18.9 | 181.0 | --- | 5.030 | 1.47 | 0.256 | 87.9 | 188.4 | 1.5 | 0.199 |
| 4-2210 | 4-3190 | 0.328 | 327.6 | -24.6 | -2.79 | 1.280 | 82.8 | 0.670 | 3.018 | 17.9 | 181.8 | --- | 5.039 | 1.63 | 0.257 | 86.3 | 187.9 | 1.7 | 0.199 |
| 4-2210 | 4-3210 | 0.326 | 329.4 | -24.9 | -3.00 | 1.280 | 83.2 | 0.670 | 3.024 | 16.9 | 182.6 | --- | 5.051 | 1.83 | 0.257 | 84.7 | 187.5 | 1.9 | 0.200 |
| 4-2210 | 4-3230 | 0.325 | 331.4 | -25.5 | -3.25 | 1.281 | 83.6 | 0.670 | 3.032 | 15.9 | 183.4 | --- | 5.064 | 2.08 | 0.258 | 83.1 | 187.3 | 2.3 | 0.202 |
| 4-2210 | 4-3250 | 0.324 | 333.5 | -26.3 | -3.60 | 1.281 | 84.0 | 0.671 | 3.040 | 14.9 | 184.2 | --- | 5.079 | 2.41 | 0.259 | 81.7 | 187.1 | 2.7 | 0.203 |
| 4-2210 | 4-3270 | 0.324 | 335.9 | -27.5 | -4.07 | 1.281 | 84.4 | 0.671 | 3.049 | 13.9 | 184.9 | --- | 5.095 | 2.88 | 0.260 | 80.2 | 187.0 | 3.2 | 0.205 |
| 4-2210 | 4-3290 | 0.325 | 338.8 | -29.5 | -4.77 | 1.282 | 84.9 | 0.671 | 3.059 | 12.8 | 185.6 | --- | 5.113 | 3.57 | 0.261 | 78.9 | 187.0 | 4.1 | 0.207 |
| 4-2210 | 4-3310 | 0.330 | 342.4 | -32.9 | -5.90 | 1.282 | 85.3 | 0.672 | 3.069 | 11.8 | 186.2 | --- | 5.132 | 4.70 | 0.262 | 77.6 | 187.2 | 5.4 | 0.209 |
| 4-2210 | 4-3330 | 0.346 | 348.1 | -39.4 | -8.06 | 1.283 | 85.7 | 0.673 | 3.080 | 10.7 | 186.9 | --- | 5.152 | 6.85 | 0.263 | 76.4 | 187.6 | 7.8 | 0.213 |
| 4-2210 | 4-3350 | 0.408 | 1.9 | -54.0 | -13.84 | 1.283 | 86.1 | 0.673 | 3.091 | 9.6 | 187.5 | --- | 5.173 | 12.62 | 0.265 | 75.2 | 188.6 | 14.0 | 0.224 |
| 4-2210 | 4-3370 | 1.156 | 128.6 | -61.7 | -59.52 | 1.284 | 86.5 | 0.674 | 3.103 | 8.7 | 188.1 | --- | 5.195 | 58.30 | 0.266 | 74.0 | 198.6 | 32.7 | 0.392 |
| 4-2210 | 4-3390 | 0.436 | 315.0 | 40.7 | 16.02 | 1.284 | 87.1 | 0.675 | 3.115 | 7.2 | 188.7 | --- | 5.218 | -17.25 | 0.267 | 72.9 | 188.1 | -19.0 | 0.238 |
| 4-2210 | 4-3410 | 0.331 | 331.3 | 17.8 | 6.84 | 1.285 | 87.6 | 0.676 | 3.128 | 6.0 | 189.3 | --- | 5.242 | -8.08 | 0.269 | 71.9 | 188.0 | -9.7 | 0.222 |
| 4-2210 | 4-3430 | 0.312 | 337.5 | 8.7 | 4.02 | 1.285 | 88.0 | 0.677 | 3.140 | 4.9 | 189.8 | --- | 5.267 | -5.26 | 0.270 | 70.9 | 188.5 | -6.5 | 0.222 |
| 4-2210 | 4-3450 | 0.306 | 341.5 | 4.3 | 2.66 | 1.286 | 88.5 | 0.678 | 3.154 | 3.7 | 190.3 | --- | 5.292 | -3.91 | 0.272 | 69.9 | 189.0 | -5.0 | 0.223 |
| 4-2210 | 4-3470 | 0.304 | 344.7 | 2.0 | 1.85 | 1.286 | 89.0 | 0.679 | 3.167 | 2.5 | 190.9 | --- | 5.319 | -3.11 | 0.273 | 69.0 | 189.7 | -4.0 | 0.225 |
| 4-2210 | 4-3490 | 0.303 | 347.5 | 0.7 | 1.32 | 1.287 | 89.5 | 0.681 | 3.180 | 1.3 | 191.4 | --- | 5.345 | -2.59 | 0.274 | 68.0 | 190.3 | -3.5 | 0.226 |
| 4-2210 | 4-3510 | 0.303 | 350.1 | 0.1 | 0.94 | 1.287 | 90.0 | 0.682 | 3.194 | 0.1 | 191.8 | --- | 5.373 | -2.21 | 0.276 | 67.2 | 191.0 | -3.1 | 0.229 |
| 4-2210 | 4-3530 | 0.304 | 352.5 | -0.2 | 0.66 | 1.288 | 90.5 | 0.683 | 3.208 | 358.8 | 552.3 | 1.015 | 5.401 | -1.94 | 0.277 | 66.3 | 191.7 | -2.8 | 0.231 |
| 4-2210 | 4-3550 | 0.305 | 354.8 | -0.2 | 0.44 | 1.288 | 91.0 | 0.685 | 3.222 | 357.6 | 552.8 | 1.015 | 5.429 | -1.73 | 0.279 | 65.5 | 192.5 | -2.5 | 0.233 |
| 4- 210 | 4-3570 | 0.306 | 357.1 | -0.0 | 0.27 | 1.289 | 91.5 | 0.687 | 3.236 | 356.4 | 553.2 | 1.015 | 5.458 | -1.56 | 0.280 | 64.7 | 193.3 | -2.4 | 0.235 |
| 4-2210 | 4-3590 | 0.308 | 359.3 | 0.2 | 0.12 | 1.289 | 92.0 | 0.688 | 3.251 | 355.1 | 553.6 | 1.014 | 5.488 | -1.42 | 0.282 | 63.9 | 194.2 | -2.3 | 0.237 |
| 4-2210 | 4-3610 | 0.310 | 1.4 | 0.6 | 0.00 | 1.290 | 92.5 | 0.690 | 3.265 | 353.8 | 554.0 | 1.013 | 5.518 | -1.31 | 0.283 | 63.2 | 195.1 | -2.2 | 0.240 |
| 4-2210 | 4-3630 | 0.313 | 3.6 | 1.1 | -0.10 | 1.290 | 93.0 | 0.691 | 3.280 | 352.6 | 554.4 | 1.012 | 5.548 | -1.21 | 0.285 | 62.5 | 196.0 | -2.1 | 0.242 |
| 4-2210 | 4-3650 | 0.316 | 5.6 | 1.6 | -0.19 | 1.291 | 93.6 | 0.693 | 3.295 | 351.3 | 554.8 | 1.011 | 5.579 | -1.13 | 0.286 | 61.7 | 196.9 | -2.1 | 0.244 |
| 4-2210 | 4-3670 | 0.319 | 7.7 | 2.1 | -0.27 | 1.291 | 94.1 | 0.695 | 3.310 | 350.0 | 555.2 | 1.009 | 5.610 | -1.06 | 0.288 | 61.0 | 197.9 | -2.0 | 0.246 |
| 4-2210 | 4-3690 | 0.323 | 9.7 | 2.7 | -0.33 | 1.292 | 94.6 | 0.697 | 3.325 | 348.7 | 555.5 | 1.007 | 5.642 | -1.00 | 0.289 | 60.4 | 198.9 | -2.0 | 0.249 |
| 4-2210 | 4-3710 | 0.327 | 11.7 | 3.3 | -0.40 | 1.292 | 95.2 | 0.699 | 3.340 | 347.4 | 555.9 | 1.005 | 5.674 | -0.94 | 0.290 | 59.7 | 199.9 | -2.0 | 0.251 |
| 4-2210 | 4-3730 | 0.331 | 13.6 | 3.9 | -0.45 | 1.293 | 95.7 | 0.701 | 3.355 | 346.0 | 556.2 | 1.003 | 5.706 | -0.90 | 0.292 | 59.1 | 201.0 | -2.0 | 0.253 |
| 4-2210 | 4-3750 | 0.336 | 15.5 | 4.6 | -0.50 | 1.293 | 96.3 | 0.703 | 3.370 | 344.7 | 556.6 | 1.001 | 5.739 | -0.86 | 0.293 | 58.4 | 202.1 | -2.0 | 0.255 |
| 4-2210 | 4-3770 | 0.341 | 17.4 | 5.2 | -0.54 | 1.294 | 96.9 | 0.705 | 3.385 | 343.4 | 556.9 | 0.998 | 5.772 | -0.82 | 0.295 | 57.8 | 203.1 | -2.0 | 0.257 |
| 4-2210 | 4-3790 | 0.348 | 19.3 | 5.8 | -0.58 | 1.294 | 97.4 | 0.707 | 3.400 | 342.1 | 557.2 | 0.995 | 5.805 | -0.78 | 0.296 | 57.2 | 204.3 | -2.0 | 0.260 |
| 4-2210 | 4-3810 | 0.351 | 21.1 | 6.4 | -0.62 | 1.295 | 98.0 | 0.710 | 3.415 | 340.7 | 557.5 | 0.992 | 5.839 | -0.75 | 0.297 | 56.6 | 205.4 | -2.0 | 0.262 |
| 4-2220 | 4-2480 | 0.639 | 331.9 | -14.8 | -1.28 | 1.568 | 77.9 | 1.479 | -2.044 | 20.3 | 110.2 | --- | --- | 0.24 | 0.945 | 160.6 | 213.6 | -1.6 | 0.908 |
| 4-2220 | 4-2500 | 0.599 | 329.0 | -16.0 | -1.29 | 1.519 | 77.2 | 1.331 | -2.940 | 22.3 | 114.1 | --- | --- | 0.24 | 0.862 | 159.4 | 213.8 | -1.6 | 0.827 |
| 4-2220 | 4-2520 | 0.568 | 326.3 | -17.0 | -1.30 | 1.480 | 76.6 | 1.214 | -4.508 | 24.3 | 117.9 | --- | --- | 0.24 | 0.791 | 158.1 | 213.9 | -1.6 | 0.756 |
| 4-2220 | 4-2540 | 0.544 | 323.7 | -18.0 | -1.31 | 1.447 | 76.1 | 1.122 | -7.896 | 26.3 | 121.6 | --- | --- | 0.24 | 0.728 | 156.7 | 214.0 | -1.6 | 0.694 |
| 4-2220 | 4-2560 | 0.525 | 321.2 | -18.8 | -1.31 | 1.420 | 75.6 | 1.047 | 20.283 | 28.1 | 125.3 | --- | --- | 0.24 | 0.673 | 155.2 | 214.0 | -1.6 | 0.639 |
| 4-2220 | 4-2580 | 0.511 | 319.1 | -19.5 | -1.32 | 1.398 | 75.2 | 0.987 | 71.469 | 29.8 | 128.9 | --- | --- | 0.24 | 0.624 | 153.6 | 214.0 | -1.6 | 0.590 |
| 4-2220 | 4-2600 | 0.499 | 317.1 | -20.2 | -1.33 | 1.379 | 74.8 | 0.937 | 15.082 | 31.4 | 132.3 | --- | --- | 0.25 | 0.581 | 152.0 | 213.9 | -1.6 | 0.547 |
| 4-2220 | 4-2620 | 0.489 | 315.4 | -20.7 | -1.34 | 1.363 | 74.5 | 0.897 | 9.110 | 32.8 | 135.5 | --- | --- | 0.25 | 0.542 | 150.2 | 213.7 | -1.6 | 0.508 |
| 4-2220 | 4-2640 | 0.481 | 313.9 | -21.1 | -1.35 | 1.350 | 74.2 | 0.863 | 6.846 | 34.1 | 138.6 | --- | --- | 0.25 | 0.508 | 148.3 | 213.4 | -1.5 | 0.473 |
| 4-2220 | 4-2660 | 0.475 | 312.6 | -21.5 | -1.35 | 1.338 | 74.0 | 0.836 | 5.665 | 35.2 | 141.6 | --- | --- | 0.25 | 0.477 | 146.4 | 213.0 | -1.5 | 0.442 |
| 4-2220 | 4-2680 | 0.469 | 311.5 | -21.8 | -1.36 | 1.329 | 73.9 | 0.812 | 4.946 | 36.1 | 144.4 | --- | --- | 0.25 | 0.449 | 144.3 | 212.6 | -1.5 | 0.414 |
| 4-2220 | 4-2700 | 0.464 | 310.6 | -22.1 | -1.37 | 1.321 | 73.7 | 0.793 | 4.467 | 36.9 | 147.0 | --- | --- | 0.26 | 0.424 | 142.2 | 212.0 | -1.5 | 0.388 |
| 4-2220 | 4-2720 | 0.460 | 309.9 | -22.3 | -1.38 | 1.314 | 73.7 | 0.776 | 4.128 | 37.6 | 149.5 | --- | --- | 0.26 | 0.402 | 139.9 | 211.4 | -1.4 | 0.365 |
| 4-2220 | 4-2740 | 0.455 | 309.3 | -22.5 | -1.39 | 1.308 | 73.6 | 0.762 | 3.879 | 38.1 | 151.8 | --- | --- | 0.26 | 0.382 | 137.6 | 210.7 | -1.4 | 0.345 |
| 4-2220 | 4-2760 | 0.451 | 308.9 | -22.7 | -1.40 | 1.303 | 73.6 | 0.750 | 3.690 | 38.5 | 154.0 | --- | --- | 0.27 | 0.364 | 135.3 | 209.9 | -1.3 | 0.326 |
| 4-2220 | 4-2780 | 0.448 | 308.6 | -22.8 | -1.41 | 1.298 | 73.6 | 0.740 | 3.543 | 38.7 | 156.1 | --- | --- | 0.27 | 0.348 | 132.8 | 209.0 | -1.3 | 0.309 |
| 4-2220 | 4-2800 | 0.444 | 308.5 | -22.9 | -1.42 | 1.295 | 73.7 | 0.731 | 3.427 | 38.9 | 158.1 | --- | --- | 0.28 | 0.334 | 130.3 | 208.0 | -1.2 | 0.294 |
| 4-2220 | 4-2820 | 0.440 | 308.4 | -22.9 | -1.43 | 1.292 | 73.8 | 0.724 | 3.335 | 38.9 | 159.9 | --- | --- | 0.28 | 0.321 | 127.8 | 206.9 | -1.1 | 0.280 |
| 4-2220 | 4-2840 | 0.437 | 308.5 | -23.0 | -1.44 | 1.289 | 73.9 | 0.717 | 3.260 | 38.9 | 161.7 | --- | --- | 0.29 | 0.310 | 125.2 | 205.8 | -1.1 | 0.268 |
| 4-2220 | 4-2860 | 0.433 | 308.7 | -23.0 | -1.45 | 1.287 | 74.0 | 0.711 | 3.200 | 38.7 | 163.4 | --- | --- | 0.29 | 0.301 | 122.6 | 204.6 | -1.0 | 0.257 |
| 4-2220 | 4-2880 | 0.429 | 308.9 | -23.0 | -1.46 | 1.285 | 74.2 | 0.706 | 3.151 | 38.5 | 165.0 | --- | --- | 0.30 | 0.292 | 120.0 | 203.3 | -0.9 | 0.248 |
| 4-2220 | 4-2900 | 0.425 | 309.3 | -23.0 | -1.47 | 1.283 | 74.4 | 0.702 | 3.112 | 38.1 | 166.5 | --- | --- | 0.31 | 0.285 | 117.4 | 202.0 | -0.8 | 0.239 |
| 4-2220 | 4-2920 | 0.422 | 309.7 | -23.0 | -1.49 | 1.282 | 74.6 | 0.698 | 3.080 | 37.7 | 167.9 | --- | --- | 0.32 | 0.278 | 114.8 | 200.7 | -0.7 | 0.232 |
| 4-2220 | 4-2940 | 0.418 | 310.2 | -22.9 | -1.50 | 1.281 | 74.8 | 0.695 | 3.054 | 37.3 | 169.2 | --- | --- | 0.33 | 0.273 | 112.3 | 199.4 | -0.7 | 0.226 |
| 4-2220 | 4-2960 | 0.414 | 310.8 | -22.9 | -1.51 | 1.280 | 75.1 | 0.692 | 3.033 | 36.8 | 170.5 | --- | --- | 0.33 | 0.268 | 109.8 | 198.1 | -0.6 | 0.220 |
| 4-2220 | 4-2980 | 0.410 | 311.5 | -22.8 | -1.53 | 1.279 | 75.3 | 0.690 | 3.017 | 36.2 | 171.8 | --- | --- | 0.35 | 0.264 | 107.3 | 196.8 | -0.5 | 0.216 |
| 4-2220 | 4-3000 | 0.405 | 312.2 | -22.7 | -1.55 | 1.279 | 75.6 | 0.688 | 3.005 | 35.6 | 172.9 | --- | --- | 0.36 | 0.261 | 104.9 | 195.6 | -0.4 | 0.212 |
| 4-2220 | 4-3020 | 0.401 | 313.0 | -22.6 | -1.56 | 1.278 | 75.9 | 0.686 | 2.996 | 34.9 | 174.1 | --- | --- | 0.37 | 0.259 | 102.6 | 194.4 | -0.3 | 0.209 |
| 4-2220 | 4-3040 | 0.397 | 313.8 | -22.5 | -1.58 | 1.278 | 76.2 | 0.684 | 2.990 | 34.2 | 175.1 | --- | --- | 0.38 | 0.257 | 100.3 | 193.3 | -0.2 | 0.206 |
| 4-2220 | 4-3060 | 0.393 | 314.7 | -22.4 | -1.60 | 1.278 | 76.5 | 0.682 | 2.987 | 33.4 | 176.2 | --- | --- | 0.40 | 0.255 | 98.1 | 192.2 | -0.2 | 0.204 |
| 4-2220 | 4-3080 | 0.389 | 315.7 | -22.3 | -1.62 | 1.278 | 76.9 | 0.681 | 2.985 | 32.6 | 177.2 | --- | --- | 0.42 | 0.254 | 96.0 | 191.2 | -0.1 | 0.203 |
| 4-2220 | 4-3100 | 0.384 | 316.7 | -22.2 | -1.65 | 1.278 | 77.2 | 0.680 | 2.985 | 31.7 | 178.1 | --- | --- | 0.44 | 0.253 | 94.0 | 190.3 | -0.0 | 0.202 |
| 4-2220 | 4-3120 | 0.380 | 317.8 | -22.0 | -1.67 | 1.278 | 77.6 | 0.679 | 2.987 | 30.9 | 179.0 | --- | --- | 0.46 | 0.253 | 92.0 | 189.5 | 0.1 | 0.201 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2220 | 4-3140 | 0.376 | 318.9 | -21.9 | -1.70 | 1.278 | 77.9 | 0.679 | 2.991 | 30.0 | 179.9 | --- | --- | 0.48 | 0.253 | 90.2 | 188.9 | 0.1 | 0.201 |
| 4-2220 | 4-3160 | 0.371 | 320.1 | -21.7 | -1.73 | 1.278 | 78.3 | 0.678 | 2.996 | 29.0 | 180.8 | --- | 5.027 | 0.51 | 0.253 | 88.4 | 188.3 | 0.2 | 0.201 |
| 4-2220 | 4-3180 | 0.367 | 321.3 | -21.5 | -1.77 | 1.279 | 78.7 | 0.678 | 3.002 | 28.1 | 181.6 | --- | 5.035 | 0.54 | 0.254 | 86.7 | 187.8 | 0.3 | 0.202 |
| 4-2220 | 4-3200 | 0.363 | 322.6 | -21.3 | -1.81 | 1.279 | 79.1 | 0.677 | 3.009 | 27.1 | 182.4 | --- | 5.046 | 0.58 | 0.254 | 85.1 | 187.4 | 0.3 | 0.203 |
| 4-2220 | 4-3220 | 0.359 | 324.0 | -21.2 | -1.85 | 1.279 | 79.5 | 0.677 | 3.016 | 26.1 | 183.1 | --- | 5.058 | 0.62 | 0.255 | 83.5 | 187.0 | 0.4 | 0.204 |
| 4-2220 | 4-3240 | 0.355 | 325.4 | -21.0 | -1.91 | 1.280 | 79.9 | 0.677 | 3.025 | 25.1 | 183.9 | --- | 5.073 | 0.67 | 0.256 | 82.0 | 186.8 | 0.5 | 0.205 |
| 4-2220 | 4-3260 | 0.351 | 326.9 | -20.8 | -1.97 | 1.280 | 80.3 | 0.677 | 3.035 | 24.0 | 184.6 | --- | 5.088 | 0.73 | 0.257 | 80.6 | 186.7 | 0.5 | 0.206 |
| 4-2220 | 4-3280 | 0.347 | 328.5 | -20.7 | -2.04 | 1.280 | 80.8 | 0.677 | 3.045 | 22.9 | 185.3 | --- | 5.105 | 0.80 | 0.258 | 79.2 | 186.7 | 0.6 | 0.207 |
| 4-2220 | 4-3300 | 0.344 | 330.1 | -20.6 | -2.13 | 1.281 | 81.2 | 0.677 | 3.055 | 21.9 | 185.9 | --- | 5.124 | 0.88 | 0.260 | 77.9 | 186.7 | 0.7 | 0.209 |
| 4-2220 | 4-3320 | 0.340 | 331.8 | -20.5 | -2.24 | 1.281 | 81.6 | 0.677 | 3.066 | 20.7 | 186.6 | --- | 5.143 | 0.99 | 0.261 | 76.7 | 186.9 | 0.8 | 0.211 |
| 4-2220 | 4-3340 | 0.337 | 333.6 | -20.5 | -2.38 | 1.282 | 82.1 | 0.678 | 3.078 | 19.6 | 187.2 | --- | 5.164 | 1.12 | 0.262 | 75.5 | 187.1 | 1.0 | 0.212 |
| 4-2220 | 4-3360 | 0.334 | 335.5 | -20.7 | -2.56 | 1.282 | 82.5 | 0.678 | 3.090 | 18.5 | 187.8 | --- | 5.185 | 1.30 | 0.264 | 74.4 | 187.4 | 1.2 | 0.214 |
| 4-2220 | 4-3380 | 0.332 | 337.6 | -21.1 | -2.82 | 1.283 | 83.0 | 0.678 | 3.103 | 17.3 | 188.4 | --- | 5.208 | 1.55 | 0.265 | 73.3 | 187.7 | 1.4 | 0.216 |
| 4-2220 | 4-3400 | 0.330 | 339.9 | -21.9 | -3.19 | 1.283 | 83.5 | 0.679 | 3.116 | 16.2 | 188.9 | --- | 5.231 | 1.92 | 0.267 | 72.2 | 188.2 | 1.8 | 0.218 |
| 4-2220 | 4-3420 | 0.330 | 342.6 | -23.4 | -3.79 | 1.284 | 83.9 | 0.680 | 3.129 | 15.0 | 189.5 | --- | 5.255 | 2.52 | 0.268 | 71.2 | 188.7 | 2.4 | 0.220 |
| 4-2220 | 4-3440 | 0.333 | 346.3 | -26.9 | -4.93 | 1.284 | 84.4 | 0.680 | 3.142 | 13.8 | 190.0 | --- | 5.280 | 3.66 | 0.270 | 70.3 | 189.3 | 3.7 | 0.223 |
| 4-2220 | 4-3460 | 0.352 | 353.1 | -36.1 | -7.95 | 1.285 | 84.9 | 0.681 | 3.156 | 12.6 | 190.5 | --- | 5.305 | 6.67 | 0.271 | 69.3 | 190.2 | 6.9 | 0.227 |
| 4-2220 | 4-3480 | 0.752 | 74.0 | -73.7 | -35.46 | 1.286 | 85.3 | 0.682 | 3.170 | 11.5 | 191.0 | --- | 5.332 | 34.17 | 0.273 | 68.4 | 196.9 | 27.6 | 0.300 |
| 4-2220 | 4-3500 | 0.357 | 330.1 | 23.9 | 8.86 | 1.286 | 85.9 | 0.683 | 3.184 | 10.2 | 191.5 | --- | 5.358 | -10.15 | 0.275 | 67.6 | 190.8 | -11.6 | 0.235 |
| 4-2220 | 4-3520 | 0.317 | 340.9 | 6.2 | 3.24 | 1.287 | 86.4 | 0.684 | 3.198 | 8.9 | 192.0 | --- | 5.385 | -4.53 | 0.276 | 66.8 | 191.4 | -5.6 | 0.231 |
| 4-2220 | 4-3540 | 0.310 | 345.3 | 1.0 | 1.62 | 1.287 | 86.9 | 0.685 | 3.213 | 7.7 | 192.5 | --- | 5.413 | -2.92 | 0.278 | 66.0 | 192.2 | -3.8 | 0.232 |
| 4-2220 | 4-3560 | 0.308 | 348.5 | -1.1 | 0.86 | 1.288 | 87.4 | 0.686 | 3.227 | 6.5 | 192.9 | --- | 5.441 | -2.15 | 0.279 | 65.2 | 193.0 | -3.0 | 0.234 |
| 4-2220 | 4-3580 | 0.307 | 351.2 | -1.9 | 0.41 | 1.288 | 87.9 | 0.687 | 3.242 | 5.2 | 193.3 | --- | 5.470 | -1.71 | 0.281 | 64.4 | 193.9 | -2.6 | 0.236 |
| 4-2220 | 4-3600 | 0.306 | 353.7 | -2.2 | 0.11 | 1.289 | 88.4 | 0.688 | 3.257 | 4.0 | 193.8 | --- | 5.499 | -1.42 | 0.282 | 63.7 | 194.7 | -2.3 | 0.238 |
| 4-2220 | 4-3620 | 0.306 | 356.0 | -2.2 | -0.09 | 1.289 | 88.9 | 0.690 | 3.272 | 2.7 | 194.2 | --- | 5.528 | -1.21 | 0.284 | 63.0 | 195.6 | -2.1 | 0.240 |
| 4-2220 | 4-3640 | 0.306 | 358.3 | -1.9 | -0.25 | 1.290 | 89.4 | 0.691 | 3.287 | 1.4 | 194.6 | --- | 5.558 | -1.06 | 0.285 | 62.3 | 196.6 | -2.0 | 0.242 |
| 4-2220 | 4-3660 | 0.307 | 0.5 | -1.5 | -0.37 | 1.290 | 90.0 | 0.692 | 3.302 | 0.1 | 195.0 | --- | 5.588 | -0.94 | 0.287 | 61.7 | 197.5 | -1.9 | 0.244 |
| 4-2220 | 4-3680 | 0.308 | 2.7 | -1.0 | -0.47 | 1.291 | 90.5 | 0.694 | 3.318 | 358.8 | 555.3 | 1.016 | 5.619 | -0.85 | 0.288 | 61.0 | 198.5 | -1.8 | 0.246 |
| 4-2220 | 4-3700 | 0.309 | 4.9 | -0.4 | -0.55 | 1.291 | 91.0 | 0.695 | 3.333 | 357.5 | 555.7 | 1.016 | 5.650 | -0.78 | 0.290 | 60.4 | 199.5 | -1.8 | 0.248 |
| 4-2220 | 4-3720 | 0.310 | 7.0 | 0.3 | -0.61 | 1.292 | 91.5 | 0.697 | 3.348 | 356.2 | 556.0 | 1.015 | 5.681 | -0.71 | 0.291 | 59.8 | 200.6 | -1.8 | 0.250 |
| 4-2220 | 4-3740 | 0.312 | 9.1 | 0.9 | -0.67 | 1.293 | 92.1 | 0.698 | 3.364 | 354.9 | 556.4 | 1.015 | 5.713 | -0.66 | 0.293 | 59.2 | 201.6 | -1.8 | 0.252 |
| 4-2220 | 4-3760 | 0.315 | 11.2 | 1.6 | -0.72 | 1.293 | 92.6 | 0.700 | 3.379 | 353.6 | 556.7 | 1.014 | 5.745 | -0.62 | 0.294 | 58.6 | 202.7 | -1.8 | 0.254 |
| 4-2220 | 4-3780 | 0.317 | 13.3 | 2.4 | -0.76 | 1.294 | 93.2 | 0.702 | 3.395 | 352.3 | 557.0 | 1.013 | 5.777 | -0.58 | 0.296 | 58.0 | 203.8 | -1.8 | 0.256 |
| 4-2220 | 4-3800 | 0.320 | 15.4 | 3.1 | -0.80 | 1.294 | 93.7 | 0.704 | 3.410 | 351.0 | 557.3 | 1.011 | 5.809 | -0.54 | 0.297 | 57.4 | 204.9 | -1.8 | 0.258 |
| 4-2220 | 4-3820 | 0.324 | 17.4 | 3.8 | -0.83 | 1.295 | 94.3 | 0.705 | 3.426 | 349.6 | 557.6 | 1.009 | 5.842 | -0.51 | 0.298 | 56.9 | 206.0 | -1.8 | 0.260 |
| 4-2230 | 4-2530 | 0.630 | 321.3 | -18.2 | -1.30 | 1.465 | 70.4 | 1.162 | -5.619 | 36.3 | 121.2 | --- | --- | 0.03 | 0.763 | 158.2 | 213.5 | -1.7 | 0.733 |
| 4-2230 | 4-2550 | 0.609 | 319.1 | -18.9 | -1.30 | 1.434 | 70.1 | 1.080 | 11.261 | 38.3 | 125.1 | --- | --- | 0.03 | 0.702 | 156.8 | 213.5 | -1.7 | 0.673 |
| 4-2230 | 4-2570 | 0.593 | 317.1 | -19.5 | -1.30 | 1.408 | 69.8 | 1.015 | 60.842 | 40.2 | 128.8 | --- | --- | 0.03 | 0.648 | 155.3 | 213.4 | -1.7 | 0.621 |
| 4-2230 | 4-2590 | 0.580 | 315.3 | -20.0 | -1.31 | 1.387 | 69.5 | 0.962 | 23.380 | 41.9 | 132.3 | --- | --- | 0.03 | 0.601 | 153.6 | 213.2 | -1.7 | 0.574 |
| 4-2230 | 4-2610 | 0.569 | 313.7 | -20.5 | -1.31 | 1.370 | 69.3 | 0.919 | 10.912 | 43.4 | 135.7 | --- | --- | 0.03 | 0.559 | 151.9 | 213.0 | -1.7 | 0.532 |
| 4-2230 | 4-2630 | 0.560 | 312.4 | -20.8 | -1.31 | 1.355 | 69.1 | 0.884 | 7.564 | 44.8 | 138.9 | --- | --- | 0.03 | 0.521 | 150.1 | 212.7 | -1.6 | 0.495 |
| 4-2230 | 4-2650 | 0.552 | 311.3 | -21.1 | -1.31 | 1.342 | 68.9 | 0.855 | 6.023 | 45.9 | 141.9 | --- | --- | 0.03 | 0.488 | 148.2 | 212.3 | -1.6 | 0.461 |
| 4-2230 | 4-2670 | 0.546 | 310.4 | -21.4 | -1.31 | 1.331 | 68.8 | 0.831 | 5.145 | 46.9 | 144.7 | --- | --- | 0.03 | 0.458 | 146.2 | 211.8 | -1.6 | 0.431 |
| 4-2230 | 4-2690 | 0.540 | 309.6 | -21.6 | -1.31 | 1.323 | 68.8 | 0.811 | 4.583 | 47.8 | 147.4 | --- | --- | 0.03 | 0.431 | 144.0 | 211.3 | -1.6 | 0.404 |
| 4-2230 | 4-2710 | 0.534 | 309.0 | -21.7 | -1.31 | 1.315 | 68.7 | 0.794 | 4.197 | 48.4 | 149.9 | --- | --- | 0.03 | 0.407 | 141.8 | 210.6 | -1.5 | 0.380 |
| 4-2230 | 4-2730 | 0.529 | 308.6 | -21.9 | -1.31 | 1.308 | 68.8 | 0.780 | 3.918 | 49.0 | 152.2 | --- | --- | 0.03 | 0.385 | 139.5 | 209.9 | -1.5 | 0.358 |
| 4-2230 | 4-2750 | 0.525 | 308.2 | -21.9 | -1.31 | 1.303 | 68.8 | 0.767 | 3.710 | 49.3 | 154.4 | --- | --- | 0.03 | 0.366 | 137.1 | 209.1 | -1.5 | 0.338 |
| 4-2230 | 4-2770 | 0.520 | 308.0 | -22.0 | -1.31 | 1.298 | 68.9 | 0.757 | 3.550 | 49.6 | 156.5 | --- | --- | 0.03 | 0.349 | 134.6 | 208.1 | -1.4 | 0.320 |
| 4-2230 | 4-2790 | 0.516 | 307.9 | -22.1 | -1.31 | 1.294 | 69.0 | 0.748 | 3.425 | 49.7 | 158.4 | --- | --- | 0.03 | 0.334 | 132.1 | 207.2 | -1.4 | 0.304 |
| 4-2230 | 4-2810 | 0.511 | 307.9 | -22.1 | -1.31 | 1.291 | 69.1 | 0.740 | 3.326 | 49.7 | 160.3 | --- | --- | 0.03 | 0.320 | 129.5 | 206.1 | -1.3 | 0.290 |
| 4-2230 | 4-2830 | 0.507 | 308.0 | -22.1 | -1.32 | 1.288 | 69.3 | 0.734 | 3.247 | 49.6 | 162.0 | --- | --- | 0.03 | 0.308 | 126.8 | 205.0 | -1.3 | 0.277 |
| 4-2230 | 4-2850 | 0.502 | 308.1 | -22.1 | -1.32 | 1.286 | 69.4 | 0.728 | 3.184 | 49.4 | 163.6 | --- | --- | 0.03 | 0.298 | 124.2 | 203.8 | -1.2 | 0.266 |
| 4-2230 | 4-2870 | 0.498 | 308.4 | -22.1 | -1.32 | 1.284 | 69.6 | 0.722 | 3.132 | 49.1 | 165.2 | --- | --- | 0.03 | 0.289 | 121.5 | 202.5 | -1.1 | 0.256 |
| 4-2230 | 4-2890 | 0.493 | 308.7 | -22.0 | -1.32 | 1.282 | 69.9 | 0.718 | 3.091 | 48.8 | 166.7 | --- | --- | 0.03 | 0.281 | 118.8 | 201.3 | -1.1 | 0.247 |
| 4-2230 | 4-2910 | 0.488 | 309.0 | -22.0 | -1.32 | 1.281 | 70.1 | 0.714 | 3.058 | 48.4 | 168.1 | --- | --- | 0.03 | 0.274 | 116.1 | 200.0 | -1.0 | 0.240 |
| 4-2230 | 4-2930 | 0.484 | 309.5 | -21.9 | -1.32 | 1.280 | 70.4 | 0.710 | 3.031 | 47.9 | 169.4 | --- | --- | 0.03 | 0.268 | 113.5 | 198.7 | -1.0 | 0.233 |
| 4-2230 | 4-2950 | 0.479 | 310.0 | -21.8 | -1.32 | 1.279 | 70.6 | 0.707 | 3.010 | 47.3 | 170.6 | --- | --- | 0.03 | 0.264 | 110.8 | 197.4 | -0.9 | 0.227 |
| 4-2230 | 4-2970 | 0.474 | 310.5 | -21.7 | -1.32 | 1.278 | 70.9 | 0.704 | 2.994 | 46.7 | 171.8 | --- | --- | 0.03 | 0.260 | 108.3 | 196.2 | -0.8 | 0.222 |
| 4-2230 | 4-2990 | 0.469 | 311.1 | -21.6 | -1.32 | 1.277 | 71.2 | 0.702 | 2.981 | 46.0 | 173.0 | --- | --- | 0.03 | 0.256 | 105.8 | 195.0 | -0.8 | 0.218 |
| 4-2230 | 4-3010 | 0.464 | 311.8 | -21.5 | -1.33 | 1.277 | 71.5 | 0.700 | 2.972 | 45.3 | 174.1 | --- | --- | 0.03 | 0.254 | 103.3 | 193.8 | -0.7 | 0.215 |
| 4-2230 | 4-3030 | 0.459 | 312.5 | -21.4 | -1.33 | 1.277 | 71.9 | 0.698 | 2.966 | 44.6 | 175.1 | --- | --- | 0.03 | 0.252 | 101.0 | 192.7 | -0.6 | 0.212 |
| 4-2230 | 4-3050 | 0.454 | 313.2 | -21.2 | -1.33 | 1.277 | 72.2 | 0.696 | 2.963 | 43.8 | 176.1 | --- | --- | 0.04 | 0.250 | 98.7 | 191.7 | -0.6 | 0.210 |
| 4-2230 | 4-3070 | 0.448 | 314.0 | -21.1 | -1.33 | 1.277 | 72.6 | 0.694 | 2.961 | 43.0 | 177.1 | --- | --- | 0.04 | 0.249 | 96.5 | 190.7 | -0.5 | 0.208 |
| 4-2230 | 4-3090 | 0.443 | 314.8 | -20.9 | -1.33 | 1.277 | 72.9 | 0.693 | 2.962 | 42.1 | 178.0 | --- | --- | 0.04 | 0.248 | 94.4 | 189.9 | -0.5 | 0.207 |
| 4-2230 | 4-3110 | 0.438 | 315.7 | -20.7 | -1.33 | 1.277 | 73.3 | 0.692 | 2.964 | 41.2 | 178.9 | --- | --- | 0.04 | 0.248 | 92.4 | 189.1 | -0.4 | 0.206 |
| 4-2230 | 4-3130 | 0.432 | 316.6 | -20.5 | -1.34 | 1.277 | 73.7 | 0.691 | 2.968 | 40.3 | 179.8 | --- | --- | 0.04 | 0.248 | 90.5 | 188.4 | -0.4 | 0.206 |
| 4-2230 | 4-3150 | 0.427 | 317.6 | -20.3 | -1.34 | 1.277 | 74.1 | 0.690 | 2.973 | 39.3 | 180.6 | --- | 5.024 | 0.04 | 0.249 | 88.6 | 187.9 | -0.4 | 0.206 |
| 4-2230 | 4-3170 | 0.422 | 318.6 | -20.1 | -1.34 | 1.277 | 74.5 | 0.689 | 2.980 | 38.3 | 181.4 | --- | 5.032 | 0.04 | 0.249 | 86.9 | 187.4 | -0.3 | 0.206 |
| 4-2230 | 4-3190 | 0.416 | 319.6 | -19.9 | -1.34 | 1.278 | 74.9 | 0.688 | 2.987 | 37.3 | 182.2 | --- | 5.042 | 0.04 | 0.250 | 85.2 | 187.0 | -0.3 | 0.207 |
| 4-2230 | 4-3210 | 0.411 | 320.7 | -19.6 | -1.34 | 1.278 | 75.3 | 0.687 | 2.995 | 36.3 | 182.9 | --- | 5.054 | 0.05 | 0.251 | 83.6 | 186.7 | -0.3 | 0.208 |
| 4-2230 | 4-3230 | 0.406 | 321.8 | -19.3 | -1.35 | 1.278 | 75.7 | 0.687 | 3.004 | 35.3 | 183.7 | --- | 5.068 | 0.05 | 0.252 | 82.1 | 186.5 | -0.3 | 0.208 |
| 4-2230 | 4-3250 | 0.400 | 323.0 | -19.1 | -1.35 | 1.279 | 76.2 | 0.686 | 3.014 | 34.2 | 184.4 | --- | 5.083 | 0.05 | 0.253 | 80.6 | 186.4 | -0.3 | 0.209 |
| 4-2230 | 4-3270 | 0.395 | 324.2 | -18.7 | -1.35 | 1.279 | 76.6 | 0.686 | 3.025 | 33.1 | 185.0 | --- | 5.100 | 0.05 | 0.255 | 79.2 | 186.4 | -0.3 | 0.211 |
| 4-2230 | 4-3290 | 0.390 | 325.4 | -18.4 | -1.36 | 1.280 | 77.1 | 0.686 | 3.036 | 32.0 | 185.7 | --- | 5.118 | 0.06 | 0.256 | 77.9 | 186.4 | -0.3 | 0.212 |
| 4-2230 | 4-3310 | 0.385 | 326.7 | -18.1 | -1.36 | 1.280 | 77.5 | 0.686 | 3.048 | 30.9 | 186.3 | --- | 5.137 | 0.06 | 0.258 | 76.7 | 186.5 | -0.3 | 0.213 |
| 4-2230 | 4-3330 | 0.380 | 328.1 | -17.7 | -1.37 | 1.281 | 78.0 | 0.686 | 3.060 | 29.8 | 186.9 | --- | 5.157 | 0.07 | 0.259 | 75.5 | 186.7 | -0.3 | 0.215 |
| 4-2230 | 4-3350 | 0.375 | 329.4 | -17.3 | -1.37 | 1.281 | 78.4 | 0.686 | 3.072 | 28.6 | 187.5 | --- | 5.179 | 0.07 | 0.261 | 74.3 | 187.0 | -0.3 | 0.217 |
| 4-2230 | 4-3370 | 0.370 | 330.9 | -16.9 | -1.38 | 1.282 | 78.9 | 0.686 | 3.085 | 27.5 | 188.1 | --- | 5.201 | 0.08 | 0.262 | 73.3 | 187.3 | -0.3 | 0.218 |
| 4-2230 | 4-3390 | 0.365 | 332.3 | -16.5 | -1.39 | 1.282 | 79.3 | 0.686 | 3.099 | 26.3 | 188.7 | --- | 5.223 | 0.09 | 0.264 | 72.2 | 187.7 | -0.3 | 0.220 |
| 4-2230 | 4-3410 | 0.360 | 333.8 | -16.1 | -1.40 | 1.283 | 79.8 | 0.686 | 3.112 | 25.1 | 189.2 | --- | 5.247 | 0.09 | 0.266 | 71.2 | 188.2 | -0.3 | 0.222 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2230 | 4-3430 | 0.356 | 335.4 | -15.6 | -1.41 | 1.283 | 80.3 | 0.686 | 3.126 | 23.9 | 189.7 | --- | 5.271 | 0.11 | 0.267 | 70.3 | 188.7 | -0.3 | 0.223 |
| 4-2230 | 4-3450 | 0.351 | 337.0 | -15.2 | -1.42 | 1.284 | 80.8 | 0.686 | 3.140 | 22.7 | 190.3 | --- | 5.296 | 0.12 | 0.269 | 69.4 | 189.3 | -0.4 | 0.225 |
| 4-2230 | 4-3470 | 0.347 | 338.6 | -14.7 | -1.44 | 1.285 | 81.3 | 0.687 | 3.155 | 21.5 | 190.8 | --- | 5.322 | 0.14 | 0.271 | 68.5 | 189.9 | -0.4 | 0.227 |
| 4-2230 | 4-3490 | 0.343 | 340.3 | -14.2 | -1.47 | 1.285 | 81.8 | 0.687 | 3.169 | 20.3 | 191.2 | --- | 5.348 | 0.16 | 0.272 | 67.6 | 190.6 | -0.4 | 0.229 |
| 4-2230 | 4-3510 | 0.339 | 342.0 | -13.7 | -1.51 | 1.286 | 82.3 | 0.688 | 3.184 | 19.0 | 191.7 | --- | 5.374 | 0.20 | 0.274 | 66.8 | 191.3 | -0.4 | 0.231 |
| 4-2230 | 4-3530 | 0.336 | 343.9 | -13.3 | -1.57 | 1.286 | 82.8 | 0.688 | 3.199 | 17.8 | 192.2 | --- | 5.401 | 0.26 | 0.276 | 66.1 | 192.0 | -0.4 | 0.232 |
| 4-2230 | 4-3550 | 0.332 | 345.8 | -13.1 | -1.68 | 1.287 | 83.3 | 0.689 | 3.214 | 16.6 | 192.6 | --- | 5.429 | 0.38 | 0.278 | 65.3 | 192.8 | -0.3 | 0.234 |
| 4-2230 | 4-3570 | 0.330 | 348.0 | -13.4 | -1.96 | 1.287 | 83.8 | 0.690 | 3.229 | 15.3 | 193.1 | --- | 5.457 | 0.66 | 0.279 | 64.6 | 193.6 | -0.0 | 0.236 |
| 4-2230 | 4-3590 | 0.333 | 352.9 | -19.8 | -3.93 | 1.288 | 84.3 | 0.690 | 3.245 | 14.1 | 193.5 | --- | 5.485 | 2.63 | 0.281 | 63.9 | 194.6 | 2.0 | 0.238 |
| 4-2230 | 4-3610 | 0.322 | 348.7 | -4.8 | 0.02 | 1.289 | 84.8 | 0.691 | 3.260 | 12.8 | 193.9 | --- | 5.514 | -1.33 | 0.282 | 63.2 | 195.4 | -2.2 | 0.240 |
| 4-2230 | 4-3630 | 0.319 | 351.8 | -6.9 | -0.77 | 1.289 | 85.3 | 0.692 | 3.276 | 11.5 | 194.3 | --- | 5.543 | -0.53 | 0.284 | 62.6 | 196.2 | -1.4 | 0.242 |
| 4-2230 | 4-3650 | 0.317 | 354.1 | -6.9 | -0.97 | 1.290 | 85.8 | 0.693 | 3.291 | 10.2 | 194.7 | --- | 5.573 | -0.33 | 0.286 | 61.9 | 197.2 | -1.3 | 0.243 |
| 4-2230 | 4-3670 | 0.316 | 356.1 | -6.4 | -1.06 | 1.290 | 86.3 | 0.694 | 3.307 | 8.9 | 195.1 | --- | 5.602 | -0.24 | 0.287 | 61.3 | 198.1 | -1.2 | 0.245 |
| 4-2230 | 4-3690 | 0.314 | 358.2 | -5.8 | -1.12 | 1.291 | 86.9 | 0.695 | 3.323 | 7.7 | 195.4 | --- | 5.632 | -0.19 | 0.289 | 60.7 | 199.1 | -1.2 | 0.247 |
| 4-2230 | 4-3710 | 0.313 | 0.3 | -5.1 | -1.15 | 1.291 | 87.4 | 0.696 | 3.338 | 6.4 | 195.8 | --- | 5.663 | -0.16 | 0.290 | 60.1 | 200.1 | -1.2 | 0.249 |
| 4-2230 | 4-3730 | 0.312 | 2.3 | -4.3 | -1.17 | 1.292 | 87.9 | 0.697 | 3.354 | 5.1 | 196.2 | --- | 5.693 | -0.13 | 0.292 | 59.6 | 201.2 | -1.2 | 0.251 |
| 4-2230 | 4-3750 | 0.311 | 4.4 | -3.5 | -1.19 | 1.292 | 88.5 | 0.699 | 3.370 | 3.8 | 196.5 | --- | 5.724 | -0.12 | 0.293 | 59.0 | 202.2 | -1.3 | 0.252 |
| 4-2230 | 4-3770 | 0.311 | 6.5 | -2.7 | -1.20 | 1.293 | 89.0 | 0.700 | 3.386 | 2.4 | 196.8 | --- | 5.756 | -0.10 | 0.295 | 58.5 | 203.3 | -1.3 | 0.254 |
| 4-2230 | 4-3790 | 0.311 | 8.6 | -1.8 | -1.22 | 1.294 | 89.5 | 0.701 | 3.402 | 1.1 | 197.2 | --- | 5.787 | -0.09 | 0.296 | 57.9 | 204.4 | -1.4 | 0.256 |
| 4-2230 | 4-3810 | 0.312 | 10.7 | -0.9 | -1.22 | 1.294 | 90.1 | 0.703 | 3.418 | 359.8 | 557.5 | 1.017 | 5.819 | -0.09 | 0.298 | 57.4 | 205.5 | -1.4 | 0.258 |
| 4-2230 | 4-3830 | 0.312 | 12.8 | -0.1 | -1.23 | 1.295 | 90.6 | 0.704 | 3.434 | 358.5 | 557.8 | 1.017 | 5.851 | -0.08 | 0.299 | 56.9 | 206.7 | -1.5 | 0.260 |
| 4-2240 | 4-2580 | 0.677 | 315.0 | -19.6 | -1.33 | 1.397 | 63.7 | 0.98659 | 59.150 | 53.0 | 133.0 | --- | --- | -0.19 | 0.622 | 155.6 | 212.3 | -1.7 | 0.604 |
| 4-2240 | 4-2600 | 0.664 | 313.6 | -20.0 | -1.32 | 1.377 | 63.6 | 0.94213 | .859 | 54.7 | 136.5 | --- | --- | -0.19 | 0.576 | 153.9 | 212.1 | -1.7 | 0.559 |
| 4-2240 | 4-2620 | 0.653 | 312.5 | -20.3 | -1.31 | 1.360 | 63.5 | 0.906 | 8.500 | 56.1 | 139.7 | --- | --- | -0.19 | 0.535 | 152.2 | 211.7 | -1.7 | 0.518 |
| 4-2240 | 4-2640 | 0.643 | 311.6 | -20.5 | -1.31 | 1.346 | 63.4 | 0.876 | 6.437 | 57.3 | 142.8 | --- | --- | -0.19 | 0.499 | 150.3 | 211.3 | -1.7 | 0.482 |
| 4-2240 | 4-2660 | 0.635 | 310.8 | -20.7 | -1.30 | 1.334 | 63.4 | 0.852 | 5.356 | 58.3 | 145.6 | --- | --- | -0.19 | 0.466 | 148.3 | 210.8 | -1.7 | 0.450 |
| 4-2240 | 4-2680 | 0.628 | 310.2 | -20.9 | -1.29 | 1.325 | 63.4 | 0.831 | 4.696 | 59.1 | 148.3 | --- | --- | -0.19 | 0.437 | 146.2 | 210.2 | -1.7 | 0.422 |
| 4-2240 | 4-2700 | 0.621 | 309.7 | -21.0 | -1.29 | 1.316 | 63.5 | 0.814 | 4.256 | 59.8 | 150.7 | --- | --- | -0.19 | 0.411 | 144.0 | 209.5 | -1.6 | 0.396 |
| 4-2240 | 4-2720 | 0.615 | 309.4 | -21.1 | -1.28 | 1.309 | 63.6 | 0.800 | 3.946 | 60.2 | 153.1 | --- | --- | -0.19 | 0.388 | 141.6 | 208.8 | -1.6 | 0.373 |
| 4-2240 | 4-2740 | 0.609 | 309.1 | -21.1 | -1.28 | 1.303 | 63.7 | 0.788 | 3.718 | 60.6 | 155.2 | --- | --- | -0.19 | 0.367 | 139.2 | 207.9 | -1.6 | 0.352 |
| 4-2240 | 4-2760 | 0.603 | 309.0 | -21.2 | -1.27 | 1.298 | 63.8 | 0.777 | 3.545 | 60.8 | 157.3 | --- | --- | -0.19 | 0.349 | 136.7 | 207.0 | -1.5 | 0.333 |
| 4-2240 | 4-2780 | 0.598 | 308.9 | -21.2 | -1.26 | 1.294 | 64.0 | 0.768 | 3.411 | 60.8 | 159.2 | --- | --- | -0.19 | 0.332 | 134.1 | 206.0 | -1.5 | 0.317 |
| 4-2240 | 4-2800 | 0.592 | 308.9 | -21.2 | -1.26 | 1.290 | 64.2 | 0.761 | 3.307 | 60.8 | 160.9 | --- | --- | -0.19 | 0.318 | 131.5 | 204.9 | -1.4 | 0.302 |
| 4-2240 | 4-2820 | 0.587 | 309.0 | -21.2 | -1.25 | 1.287 | 64.4 | 0.754 | 3.224 | 60.7 | 162.6 | --- | --- | -0.19 | 0.305 | 128.7 | 203.8 | -1.4 | 0.288 |
| 4-2240 | 4-2840 | 0.581 | 309.2 | -21.1 | -1.24 | 1.285 | 64.6 | 0.748 | 3.157 | 60.4 | 164.2 | --- | --- | -0.20 | 0.294 | 126.0 | 202.6 | -1.3 | 0.277 |
| 4-2240 | 4-2860 | 0.576 | 309.5 | -21.1 | -1.24 | 1.283 | 64.8 | 0.742 | 3.104 | 60.1 | 165.7 | --- | --- | -0.20 | 0.284 | 123.2 | 201.4 | -1.3 | 0.266 |
| 4-2240 | 4-2880 | 0.570 | 309.7 | -21.0 | -1.23 | 1.281 | 65.1 | 0.738 | 3.061 | 59.7 | 167.1 | --- | --- | -0.20 | 0.276 | 120.3 | 200.2 | -1.2 | 0.257 |
| 4-2240 | 4-2900 | 0.565 | 310.1 | -21.0 | -1.22 | 1.279 | 65.4 | 0.733 | 3.027 | 59.2 | 168.5 | --- | --- | -0.20 | 0.268 | 117.5 | 198.9 | -1.2 | 0.249 |
| 4-2240 | 4-2920 | 0.559 | 310.5 | -20.9 | -1.22 | 1.278 | 65.7 | 0.730 | 3.000 | 58.7 | 169.7 | --- | --- | -0.20 | 0.262 | 114.7 | 197.6 | -1.1 | 0.242 |
| 4-2240 | 4-2940 | 0.553 | 310.9 | -20.8 | -1.21 | 1.277 | 66.0 | 0.726 | 2.978 | 58.1 | 171.0 | --- | --- | -0.21 | 0.257 | 112.0 | 196.4 | -1.1 | 0.236 |
| 4-2240 | 4-2960 | 0.547 | 311.4 | -20.7 | -1.20 | 1.277 | 66.3 | 0.723 | 2.962 | 57.4 | 172.1 | --- | --- | -0.21 | 0.253 | 109.3 | 195.2 | -1.0 | 0.231 |
| 4-2240 | 4-2980 | 0.542 | 311.9 | -20.6 | -1.20 | 1.276 | 66.7 | 0.720 | 2.949 | 56.7 | 173.2 | --- | --- | -0.21 | 0.249 | 106.6 | 194.0 | -1.0 | 0.226 |
| 4-2240 | 4-3000 | 0.536 | 312.5 | -20.4 | -1.19 | 1.276 | 67.0 | 0.718 | 2.941 | 56.0 | 174.3 | --- | --- | -0.22 | 0.247 | 104.1 | 192.9 | -0.9 | 0.223 |
| 4-2240 | 4-3020 | 0.530 | 313.1 | -20.3 | -1.18 | 1.275 | 67.4 | 0.716 | 2.935 | 55.2 | 175.3 | --- | --- | -0.22 | 0.245 | 101.6 | 191.8 | -0.9 | 0.220 |
| 4-2240 | 4-3040 | 0.524 | 313.7 | -20.1 | -1.17 | 1.275 | 67.7 | 0.713 | 2.932 | 54.3 | 176.2 | --- | --- | -0.22 | 0.243 | 99.2 | 190.9 | -0.8 | 0.217 |
| 4-2240 | 4-3060 | 0.518 | 314.4 | -20.0 | -1.16 | 1.275 | 68.1 | 0.711 | 2.931 | 53.5 | 177.2 | --- | --- | -0.23 | 0.242 | 96.9 | 190.0 | -0.8 | 0.216 |
| 4-2240 | 4-3080 | 0.512 | 315.1 | -19.8 | -1.16 | 1.275 | 68.5 | 0.710 | 2.932 | 52.6 | 178.1 | --- | --- | -0.23 | 0.242 | 94.7 | 189.1 | -0.8 | 0.214 |
| 4-2240 | 4-3100 | 0.505 | 315.8 | -19.6 | -1.15 | 1.275 | 68.9 | 0.708 | 2.935 | 51.6 | 178.9 | --- | --- | -0.24 | 0.242 | 92.6 | 188.4 | -0.7 | 0.213 |
| 4-2240 | 4-3120 | 0.499 | 316.6 | -19.4 | -1.14 | 1.276 | 69.3 | 0.707 | 2.939 | 50.7 | 179.8 | --- | --- | -0.25 | 0.242 | 90.6 | 187.8 | -0.7 | 0.213 |
| 4-2240 | 4-3140 | 0.493 | 317.4 | -19.2 | -1.13 | 1.276 | 69.7 | 0.705 | 2.945 | 49.7 | 180.6 | --- | 5.021 | -0.25 | 0.242 | 88.6 | 187.2 | -0.7 | 0.212 |
| 4-2240 | 4-3160 | 0.487 | 318.2 | -19.0 | -1.12 | 1.276 | 70.2 | 0.704 | 2.952 | 48.7 | 181.3 | --- | 5.029 | -0.26 | 0.243 | 86.8 | 186.8 | -0.7 | 0.213 |
| 4-2240 | 4-3180 | 0.480 | 319.1 | -18.8 | -1.10 | 1.277 | 70.6 | 0.703 | 2.959 | 47.7 | 182.1 | --- | 5.039 | -0.27 | 0.244 | 85.1 | 186.4 | -0.6 | 0.213 |
| 4-2240 | 4-3200 | 0.474 | 320.0 | -18.5 | -1.09 | 1.277 | 71.0 | 0.702 | 2.968 | 46.6 | 182.8 | --- | 5.051 | -0.28 | 0.245 | 83.4 | 186.2 | -0.6 | 0.213 |
| 4-2240 | 4-3220 | 0.468 | 320.9 | -18.2 | -1.08 | 1.277 | 71.5 | 0.701 | 2.978 | 45.5 | 183.5 | --- | 5.065 | -0.28 | 0.247 | 81.9 | 186.0 | -0.6 | 0.214 |
| 4-2240 | 4-3240 | 0.461 | 321.9 | -17.9 | -1.07 | 1.278 | 71.9 | 0.700 | 2.988 | 44.4 | 184.2 | --- | 5.080 | -0.29 | 0.248 | 80.4 | 185.9 | -0.7 | 0.215 |
| 4-2240 | 4-3260 | 0.455 | 322.9 | -17.6 | -1.05 | 1.278 | 72.4 | 0.699 | 3.000 | 43.3 | 184.8 | --- | 5.097 | -0.31 | 0.250 | 79.0 | 185.9 | -0.7 | 0.216 |
| 4-2240 | 4-3280 | 0.449 | 323.9 | -17.3 | -1.04 | 1.279 | 72.8 | 0.698 | 3.011 | 42.2 | 185.5 | --- | 5.114 | -0.32 | 0.251 | 77.6 | 186.0 | -0.7 | 0.217 |
| 4-2240 | 4-3300 | 0.442 | 324.9 | -17.0 | -1.02 | 1.279 | 73.3 | 0.698 | 3.024 | 41.1 | 186.1 | --- | 5.133 | -0.33 | 0.253 | 76.4 | 186.1 | -0.7 | 0.218 |
| 4-2240 | 4-3320 | 0.436 | 326.0 | -16.6 | -1.00 | 1.280 | 73.7 | 0.697 | 3.036 | 39.9 | 186.7 | --- | 5.153 | -0.35 | 0.255 | 75.2 | 186.3 | -0.7 | 0.220 |
| 4-2240 | 4-3340 | 0.430 | 327.1 | -16.2 | -0.98 | 1.280 | 74.2 | 0.697 | 3.049 | 38.8 | 187.3 | --- | 5.174 | -0.36 | 0.256 | 74.0 | 186.6 | -0.8 | 0.221 |
| 4-2240 | 4-3360 | 0.424 | 328.2 | -15.8 | -0.96 | 1.281 | 74.7 | 0.696 | 3.063 | 37.6 | 187.9 | --- | 5.196 | -0.38 | 0.258 | 72.9 | 187.0 | -0.8 | 0.222 |
| 4-2240 | 4-3380 | 0.418 | 329.4 | -15.4 | -0.93 | 1.282 | 75.2 | 0.696 | 3.077 | 36.4 | 188.4 | --- | 5.219 | -0.41 | 0.260 | 71.9 | 187.4 | -0.8 | 0.224 |
| 4-2240 | 4-3400 | 0.412 | 330.6 | -14.9 | -0.91 | 1.282 | 75.6 | 0.696 | 3.091 | 35.2 | 188.9 | --- | 5.242 | -0.43 | 0.262 | 70.9 | 187.8 | -0.9 | 0.225 |
| 4-2240 | 4-3420 | 0.406 | 331.8 | -14.5 | -0.87 | 1.283 | 76.1 | 0.696 | 3.105 | 34.0 | 189.5 | --- | 5.266 | -0.46 | 0.264 | 70.0 | 188.3 | -0.9 | 0.227 |
| 4-2240 | 4-3440 | 0.400 | 333.0 | -13.9 | -0.84 | 1.283 | 76.6 | 0.696 | 3.120 | 32.8 | 190.0 | --- | 5.290 | -0.49 | 0.266 | 69.1 | 188.9 | -1.0 | 0.228 |
| 4-2240 | 4-3460 | 0.394 | 334.3 | -13.4 | -0.80 | 1.284 | 77.1 | 0.695 | 3.135 | 31.6 | 190.5 | --- | 5.315 | -0.53 | 0.268 | 68.2 | 189.5 | -1.1 | 0.230 |
| 4-2240 | 4-3480 | 0.388 | 335.6 | -12.8 | -0.75 | 1.284 | 77.6 | 0.695 | 3.150 | 30.4 | 191.0 | --- | 5.341 | -0.57 | 0.269 | 67.4 | 190.2 | -1.2 | 0.232 |
| 4-2240 | 4-3500 | 0.383 | 336.9 | -12.1 | -0.69 | 1.285 | 78.1 | 0.696 | 3.166 | 29.1 | 191.4 | --- | 5.367 | -0.63 | 0.271 | 66.6 | 190.9 | -1.2 | 0.233 |
| 4-2240 | 4-3520 | 0.377 | 338.3 | -11.4 | -0.63 | 1.286 | 78.6 | 0.696 | 3.181 | 27.9 | 191.9 | --- | 5.394 | -0.69 | 0.273 | 65.8 | 191.6 | -1.4 | 0.235 |
| 4-2240 | 4-3540 | 0.372 | 339.6 | -10.6 | -0.54 | 1.286 | 79.1 | 0.696 | 3.197 | 26.6 | 192.3 | --- | 5.421 | -0.77 | 0.275 | 65.1 | 192.4 | -1.5 | 0.237 |
| 4-2240 | 4-3560 | 0.367 | 341.0 | -9.7 | -0.44 | 1.287 | 79.6 | 0.696 | 3.212 | 25.4 | 192.8 | --- | 5.448 | -0.87 | 0.277 | 64.4 | 193.2 | -1.6 | 0.238 |
| 4-2240 | 4-3580 | 0.362 | 342.4 | -8.6 | -0.30 | 1.287 | 80.1 | 0.696 | 3.228 | 24.1 | 193.2 | --- | 5.476 | -1.00 | 0.278 | 63.7 | 194.0 | -1.8 | 0.240 |
| 4-2240 | 4-3600 | 0.357 | 343.7 | -7.4 | -0.12 | 1.288 | 80.6 | 0.697 | 3.244 | 22.9 | 193.6 | --- | 5.504 | -1.19 | 0.280 | 63.1 | 194.9 | -2.0 | 0.242 |
| 4-2240 | 4-3620 | 0.352 | 344.9 | -5.9 | 0.14 | 1.289 | 81.2 | 0.697 | 3.260 | 21.6 | 194.0 | --- | 5.533 | -1.45 | 0.282 | 62.4 | 195.8 | -2.3 | 0.243 |
| 4-2240 | 4-3640 | 0.348 | 346.0 | -3.8 | 0.55 | 1.289 | 81.7 | 0.698 | 3.276 | 20.3 | 194.4 | --- | 5.562 | -1.85 | 0.284 | 61.8 | 196.7 | -2.8 | 0.245 |
| 4-2240 | 4-3660 | 0.344 | 346.6 | -0.6 | 1.28 | 1.290 | 82.2 | 0.698 | 3.292 | 19.0 | 194.8 | --- | 5.591 | -2.58 | 0.285 | 61.3 | 197.7 | -3.6 | 0.247 |
| 4-2240 | 4-3680 | 0.344 | 345.7 | 5.8 | 2.95 | 1.290 | 82.7 | 0.699 | 3.309 | 17.7 | 195.2 | --- | 5.620 | -4.24 | 0.287 | 60.7 | 198.6 | -5.2 | 0.249 |
| 4-2240 | 4-3700 | 0.394 | 334.8 | 29.1 | 10.53 | 1.291 | 83.2 | 0.699 | 3.325 | 16.5 | 195.5 | --- | 5.650 | -11.82 | 0.289 | 60.1 | 199.9 | -12.5 | 0.259 |
| 4-2240 | 4-3720 | 0.452 | 17.2 | -48.8 | -15.67 | 1.292 | 83.8 | 0.700 | 3.341 | 15.1 | 195.9 | --- | 5.680 | 14.38 | 0.290 | 59.6 | 202.6 | 12.4 | 0.264 |
| 4-2240 | 4-3740 | 0.348 | 4.4 | -22.3 | -5.84 | 1.292 | 84.3 | 0.701 | 3.357 | 13.8 | 196.2 | --- | 5.710 | 4.56 | 0.292 | 59.1 | 202.2 | 3.3 | 0.254 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2240 | 4-3760 | 0.335 | 3.6 | -15.4 | -3.99 | 1.293 | 84.8 | 0.702 | 3.374 | 12.5 | 196.6 | --- | 5.741 | 2.70 | 0.293 | 58.6 | 203.1 | 1.5 | 0.255 |
| 4-2240 | 4-3780 | 0.329 | 4.3 | -11.9 | -3.21 | 1.293 | 85.4 | 0.702 | 3.390 | 11.2 | 196.9 | --- | 5.771 | 1.93 | 0.295 | 58.1 | 204.1 | 0.6 | 0.256 |
| 4-2240 | 4-3800 | 0.326 | 5.7 | -9.6 | -2.78 | 1.294 | 85.9 | 0.703 | 3.406 | 9.9 | 197.2 | --- | 5.802 | 1.50 | 0.296 | 57.6 | 205.1 | 0.2 | 0.258 |
| 4-2240 | 4-3820 | 0.323 | 7.2 | -7.8 | -2.50 | 1.294 | 86.4 | 0.704 | 3.423 | 8.6 | 197.6 | --- | 5.833 | 1.23 | 0.298 | 57.1 | 206.2 | -0.2 | 0.259 |
| 4-2240 | 4-3840 | 0.321 | 8.9 | -6.3 | -2.31 | 1.295 | 87.0 | 0.705 | 3.439 | 7.3 | 197.9 | --- | 5.865 | 1.04 | 0.299 | 56.6 | 207.4 | -0.4 | 0.261 |
| 4-2250 | 4-2570 | 0.790 | 315.8 | -19.0 | -1.39 | 1.408 | 57.4 | 1.00977 | 3.393 | 64.9 | 134.5 | --- | --- | -0.43 | 0.646 | 157.9 | 211.2 | -1.8 | 0.638 |
| 4-2250 | 4-2590 | 0.773 | 314.7 | -19.3 | -1.38 | 1.385 | 57.4 | 0.96420 | 3.004 | 66.6 | 138.0 | --- | --- | -0.42 | 0.595 | 156.3 | 210.9 | -1.7 | 0.589 |
| 4-2250 | 4-2610 | 0.759 | 313.8 | -19.5 | -1.36 | 1.366 | 57.4 | 0.928 | 9.861 | 68.0 | 141.2 | --- | --- | -0.42 | 0.550 | 154.6 | 210.5 | -1.7 | 0.546 |
| 4-2250 | 4-2630 | 0.747 | 313.0 | -19.7 | -1.35 | 1.351 | 57.5 | 0.899 | 6.960 | 69.2 | 144.3 | --- | --- | -0.42 | 0.510 | 152.7 | 210.1 | -1.7 | 0.507 |
| 4-2250 | 4-2650 | 0.736 | 312.4 | -19.9 | -1.34 | 1.338 | 57.6 | 0.874 | 5.598 | 70.2 | 147.1 | --- | --- | -0.41 | 0.475 | 150.8 | 209.5 | -1.7 | 0.473 |
| 4-2250 | 4-2670 | 0.727 | 311.9 | -20.0 | -1.32 | 1.327 | 57.7 | 0.855 | 4.816 | 71.0 | 149.7 | --- | --- | -0.41 | 0.443 | 148.7 | 208.9 | -1.7 | 0.442 |
| 4-2250 | 4-2690 | 0.718 | 311.5 | -20.1 | -1.31 | 1.318 | 57.9 | 0.838 | 4.313 | 71.6 | 152.1 | --- | --- | -0.41 | 0.415 | 146.5 | 208.2 | -1.7 | 0.415 |
| 4-2250 | 4-2710 | 0.710 | 311.3 | -20.1 | -1.30 | 1.310 | 58.0 | 0.824 | 3.967 | 72.0 | 154.3 | --- | --- | -0.41 | 0.390 | 144.2 | 207.4 | -1.6 | 0.390 |
| 4-2250 | 4-2730 | 0.703 | 311.1 | -20.2 | -1.28 | 1.304 | 58.2 | 0.812 | 3.718 | 72.2 | 156.4 | --- | --- | -0.40 | 0.367 | 141.7 | 206.5 | -1.6 | 0.368 |
| 4-2250 | 4-2750 | 0.695 | 311.1 | -20.2 | -1.27 | 1.298 | 58.4 | 0.801 | 3.531 | 72.4 | 158.4 | --- | --- | -0.40 | 0.347 | 139.2 | 205.6 | -1.6 | 0.348 |
| 4-2250 | 4-2770 | 0.688 | 311.1 | -20.2 | -1.26 | 1.294 | 58.7 | 0.793 | 3.389 | 72.3 | 160.2 | --- | --- | -0.40 | 0.329 | 136.5 | 204.6 | -1.6 | 0.331 |
| 4-2250 | 4-2790 | 0.682 | 311.1 | -20.2 | -1.24 | 1.290 | 58.9 | 0.785 | 3.278 | 72.2 | 161.9 | --- | --- | -0.40 | 0.314 | 133.8 | 203.5 | -1.5 | 0.315 |
| 4-2250 | 4-2810 | 0.675 | 311.3 | -20.1 | -1.23 | 1.286 | 59.2 | 0.778 | 3.191 | 72.0 | 163.5 | --- | --- | -0.40 | 0.300 | 131.0 | 202.4 | -1.5 | 0.301 |
| 4-2250 | 4-2830 | 0.668 | 311.5 | -20.1 | -1.22 | 1.284 | 59.5 | 0.772 | 3.122 | 71.7 | 165.0 | --- | --- | -0.40 | 0.288 | 128.1 | 201.2 | -1.4 | 0.289 |
| 4-2250 | 4-2850 | 0.662 | 311.7 | -20.0 | -1.21 | 1.282 | 59.8 | 0.766 | 3.067 | 71.3 | 166.4 | --- | --- | -0.40 | 0.277 | 125.2 | 200.0 | -1.4 | 0.278 |
| 4-2250 | 4-2870 | 0.655 | 312.0 | -20.0 | -1.19 | 1.280 | 60.1 | 0.761 | 3.023 | 70.8 | 167.8 | --- | --- | -0.41 | 0.268 | 122.2 | 198.8 | -1.3 | 0.268 |
| 4-2250 | 4-2890 | 0.648 | 312.3 | -19.9 | -1.18 | 1.278 | 60.4 | 0.757 | 2.988 | 70.3 | 169.1 | --- | --- | -0.41 | 0.260 | 119.2 | 197.6 | -1.3 | 0.260 |
| 4-2250 | 4-2910 | 0.642 | 312.7 | -19.8 | -1.17 | 1.277 | 60.8 | 0.753 | 2.961 | 69.6 | 170.3 | --- | --- | -0.41 | 0.254 | 116.3 | 196.3 | -1.2 | 0.253 |
| 4-2250 | 4-2930 | 0.635 | 313.1 | -19.7 | -1.15 | 1.276 | 61.1 | 0.749 | 2.939 | 69.0 | 171.4 | --- | --- | -0.41 | 0.249 | 113.3 | 195.1 | -1.2 | 0.246 |
| 4-2250 | 4-2950 | 0.628 | 313.6 | -19.6 | -1.14 | 1.275 | 61.5 | 0.746 | 2.923 | 68.3 | 172.5 | --- | --- | -0.41 | 0.244 | 110.4 | 194.0 | -1.1 | 0.241 |
| 4-2250 | 4-2970 | 0.622 | 314.1 | -19.4 | -1.13 | 1.275 | 61.9 | 0.743 | 2.911 | 67.5 | 173.6 | --- | --- | -0.42 | 0.241 | 107.6 | 192.8 | -1.1 | 0.236 |
| 4-2250 | 4-2990 | 0.615 | 314.6 | -19.3 | -1.11 | 1.274 | 62.3 | 0.740 | 2.902 | 66.7 | 174.6 | --- | --- | -0.42 | 0.238 | 104.9 | 191.8 | -1.0 | 0.232 |
| 4-2250 | 4-3010 | 0.608 | 315.1 | -19.1 | -1.10 | 1.274 | 62.7 | 0.737 | 2.897 | 65.9 | 175.5 | --- | --- | -0.43 | 0.236 | 102.2 | 190.8 | -1.0 | 0.229 |
| 4-2250 | 4-3030 | 0.601 | 315.7 | -19.0 | -1.08 | 1.274 | 63.1 | 0.735 | 2.894 | 65.0 | 176.5 | --- | --- | -0.43 | 0.234 | 99.7 | 189.8 | -1.0 | 0.227 |
| 4-2250 | 4-3050 | 0.594 | 316.3 | -18.8 | -1.07 | 1.274 | 63.5 | 0.732 | 2.894 | 64.1 | 177.3 | --- | --- | -0.44 | 0.234 | 97.2 | 189.0 | -0.9 | 0.225 |
| 4-2250 | 4-3070 | 0.587 | 316.9 | -18.7 | -1.05 | 1.274 | 63.9 | 0.730 | 2.896 | 63.1 | 178.2 | --- | --- | -0.44 | 0.233 | 94.8 | 188.2 | -0.9 | 0.223 |
| 4-2250 | 4-3090 | 0.580 | 317.5 | -18.5 | -1.04 | 1.274 | 64.3 | 0.728 | 2.899 | 62.2 | 179.0 | --- | --- | -0.45 | 0.233 | 92.6 | 187.6 | -0.9 | 0.222 |
| 4-2250 | 4-3110 | 0.573 | 318.2 | -18.3 | -1.02 | 1.274 | 64.8 | 0.726 | 2.904 | 61.2 | 179.8 | --- | --- | -0.46 | 0.234 | 90.5 | 187.0 | -0.9 | 0.221 |
| 4-2250 | 4-3130 | 0.566 | 318.9 | -18.1 | -1.01 | 1.275 | 65.2 | 0.724 | 2.910 | 60.1 | 180.6 | --- | 5.019 | -0.47 | 0.234 | 88.5 | 186.5 | -0.8 | 0.221 |
| 4-2250 | 4-3150 | 0.559 | 319.6 | -17.8 | -0.99 | 1.275 | 65.7 | 0.723 | 2.918 | 59.1 | 181.3 | --- | 5.027 | -0.48 | 0.235 | 86.5 | 186.1 | -0.8 | 0.221 |
| 4-2250 | 4-3170 | 0.552 | 320.4 | -17.6 | -0.97 | 1.275 | 66.1 | 0.721 | 2.926 | 58.0 | 182.0 | --- | 5.037 | -0.48 | 0.237 | 84.7 | 185.8 | -0.8 | 0.221 |
| 4-2250 | 4-3190 | 0.545 | 321.1 | -17.4 | -0.95 | 1.276 | 66.6 | 0.720 | 2.936 | 57.0 | 182.7 | --- | 5.049 | -0.50 | 0.238 | 83.0 | 185.5 | -0.8 | 0.221 |
| 4-2250 | 4-3210 | 0.538 | 321.9 | -17.1 | -0.93 | 1.276 | 67.0 | 0.718 | 2.946 | 55.9 | 183.4 | --- | 5.063 | -0.51 | 0.240 | 81.4 | 185.4 | -0.8 | 0.221 |
| 4-2250 | 4-3230 | 0.531 | 322.7 | -16.9 | -0.91 | 1.277 | 67.5 | 0.717 | 2.957 | 54.7 | 184.1 | --- | 5.078 | -0.52 | 0.241 | 79.9 | 185.3 | -0.8 | 0.222 |
| 4-2250 | 4-3250 | 0.524 | 323.5 | -16.6 | -0.89 | 1.277 | 68.0 | 0.716 | 2.969 | 53.6 | 184.7 | --- | 5.094 | -0.53 | 0.243 | 78.4 | 185.3 | -0.9 | 0.223 |
| 4-2250 | 4-3270 | 0.516 | 324.4 | -16.3 | -0.87 | 1.278 | 68.4 | 0.715 | 2.981 | 52.5 | 185.3 | --- | 5.112 | -0.55 | 0.245 | 77.1 | 185.4 | -0.9 | 0.224 |
| 4-2250 | 4-3290 | 0.509 | 325.2 | -16.0 | -0.85 | 1.278 | 68.9 | 0.714 | 2.994 | 51.3 | 185.9 | --- | 5.131 | -0.56 | 0.247 | 75.8 | 185.6 | -0.9 | 0.225 |
| 4-2250 | 4-3310 | 0.502 | 326.1 | -15.7 | -0.82 | 1.279 | 69.4 | 0.713 | 3.008 | 50.2 | 186.5 | --- | 5.151 | -0.58 | 0.249 | 74.5 | 185.8 | -0.9 | 0.226 |
| 4-2250 | 4-3330 | 0.495 | 327.1 | -15.3 | -0.79 | 1.280 | 69.9 | 0.712 | 3.021 | 49.0 | 187.1 | --- | 5.172 | -0.60 | 0.251 | 73.4 | 186.1 | -1.0 | 0.227 |
| 4-2250 | 4-3350 | 0.488 | 328.0 | -15.0 | -0.77 | 1.280 | 70.4 | 0.711 | 3.036 | 47.8 | 187.6 | --- | 5.194 | -0.62 | 0.253 | 72.3 | 186.5 | -1.0 | 0.228 |
| 4-2250 | 4-3370 | 0.481 | 328.9 | -14.6 | -0.74 | 1.281 | 70.9 | 0.710 | 3.050 | 46.6 | 188.2 | --- | 5.216 | -0.65 | 0.255 | 71.3 | 186.9 | -1.1 | 0.230 |
| 4-2250 | 4-3390 | 0.474 | 329.9 | -14.2 | -0.70 | 1.281 | 71.4 | 0.709 | 3.065 | 45.4 | 188.7 | --- | 5.239 | -0.67 | 0.257 | 70.3 | 187.4 | -1.1 | 0.231 |
| 4-2250 | 4-3410 | 0.467 | 330.9 | -13.8 | -0.67 | 1.282 | 71.9 | 0.709 | 3.080 | 44.2 | 189.2 | --- | 5.263 | -0.70 | 0.259 | 69.3 | 187.9 | -1.2 | 0.232 |
| 4-2250 | 4-3430 | 0.460 | 332.0 | -13.3 | -0.63 | 1.283 | 72.4 | 0.708 | 3.095 | 42.9 | 189.7 | --- | 5.287 | -0.73 | 0.261 | 68.4 | 188.5 | -1.2 | 0.234 |
| 4-2250 | 4-3450 | 0.453 | 333.0 | -12.8 | -0.59 | 1.283 | 72.9 | 0.708 | 3.111 | 41.7 | 190.2 | --- | 5.312 | -0.77 | 0.263 | 67.6 | 189.1 | -1.3 | 0.235 |
| 4-2250 | 4-3470 | 0.446 | 334.1 | -12.3 | -0.54 | 1.284 | 73.4 | 0.707 | 3.127 | 40.5 | 190.7 | --- | 5.338 | -0.81 | 0.265 | 66.8 | 189.8 | -1.4 | 0.237 |
| 4-2250 | 4-3490 | 0.439 | 335.2 | -11.8 | -0.49 | 1.285 | 73.9 | 0.707 | 3.142 | 39.2 | 191.1 | --- | 5.364 | -0.85 | 0.267 | 66.0 | 190.5 | -1.4 | 0.238 |
| 4-2250 | 4-3510 | 0.433 | 336.3 | -11.2 | -0.43 | 1.285 | 74.4 | 0.707 | 3.159 | 38.0 | 191.6 | --- | 5.390 | -0.90 | 0.269 | 65.3 | 191.2 | -1.5 | 0.239 |
| 4-2250 | 4-3530 | 0.426 | 337.4 | -10.6 | -0.37 | 1.286 | 74.9 | 0.706 | 3.175 | 36.7 | 192.0 | --- | 5.417 | -0.96 | 0.271 | 64.6 | 192.0 | -1.6 | 0.241 |
| 4-2250 | 4-3550 | 0.419 | 338.6 | -10.0 | -0.30 | 1.286 | 75.4 | 0.706 | 3.191 | 35.5 | 192.5 | --- | 5.444 | -1.03 | 0.273 | 63.9 | 192.8 | -1.7 | 0.242 |
| 4-2250 | 4-3570 | 0.413 | 339.7 | -9.2 | -0.21 | 1.287 | 75.9 | 0.706 | 3.207 | 34.2 | 192.9 | --- | 5.471 | -1.11 | 0.275 | 63.2 | 193.6 | -1.8 | 0.244 |
| 4-2250 | 4-3590 | 0.407 | 340.9 | -8.5 | -0.12 | 1.288 | 76.5 | 0.706 | 3.224 | 32.9 | 193.3 | --- | 5.499 | -1.20 | 0.277 | 62.6 | 194.5 | -2.0 | 0.245 |
| 4-2250 | 4-3610 | 0.401 | 342.1 | -7.6 | -0.00 | 1.288 | 77.0 | 0.706 | 3.240 | 31.6 | 193.7 | --- | 5.527 | -1.30 | 0.279 | 62.0 | 195.4 | -2.1 | 0.247 |
| 4-2250 | 4-3630 | 0.395 | 343.3 | -6.6 | 0.13 | 1.289 | 77.5 | 0.706 | 3.257 | 30.4 | 194.1 | --- | 5.556 | -1.43 | 0.281 | 61.4 | 196.3 | -2.3 | 0.248 |
| 4-2250 | 4-3650 | 0.389 | 344.5 | -5.6 | 0.30 | 1.290 | 78.0 | 0.706 | 3.274 | 29.1 | 194.5 | --- | 5.584 | -1.59 | 0.283 | 60.9 | 197.3 | -2.5 | 0.249 |
| 4-2250 | 4-3670 | 0.383 | 345.6 | -4.3 | 0.51 | 1.290 | 78.5 | 0.706 | 3.291 | 27.8 | 194.9 | --- | 5.613 | -1.79 | 0.285 | 60.3 | 198.3 | -2.7 | 0.251 |
| 4-2250 | 4-3690 | 0.378 | 346.7 | -2.9 | 0.77 | 1.291 | 79.1 | 0.706 | 3.307 | 26.5 | 195.2 | --- | 5.643 | -2.05 | 0.286 | 59.8 | 199.3 | -3.0 | 0.252 |
| 4-2250 | 4-3710 | 0.373 | 347.7 | -1.1 | 1.13 | 1.291 | 79.6 | 0.706 | 3.324 | 25.2 | 195.6 | --- | 5.672 | -2.40 | 0.288 | 59.3 | 200.3 | -3.4 | 0.254 |
| 4-2250 | 4-3730 | 0.368 | 348.5 | 1.2 | 1.63 | 1.292 | 80.1 | 0.707 | 3.341 | 23.9 | 195.9 | --- | 5.702 | -2.90 | 0.290 | 58.8 | 201.3 | -3.9 | 0.255 |
| 4-2250 | 4-3750 | 0.365 | 348.9 | 4.3 | 2.38 | 1.293 | 80.7 | 0.707 | 3.358 | 22.6 | 196.3 | --- | 5.732 | -3.65 | 0.291 | 58.3 | 202.4 | -4.7 | 0.257 |
| 4-2250 | 4-3770 | 0.364 | 348.6 | 9.2 | 3.66 | 1.293 | 81.2 | 0.707 | 3.374 | 21.3 | 196.6 | --- | 5.762 | -4.92 | 0.293 | 57.9 | 203.4 | -5.9 | 0.259 |
| 4-2250 | 4-3790 | 0.373 | 346.0 | 18.0 | 6.29 | 1.294 | 81.7 | 0.708 | 3.391 | 20.0 | 197.0 | --- | 5.792 | -7.54 | 0.295 | 57.4 | 204.6 | -8.4 | 0.262 |
| 4-2250 | 4-3810 | 0.452 | 332.1 | 39.0 | 14.72 | 1.294 | 82.2 | 0.708 | 3.408 | 18.7 | 197.3 | --- | 5.822 | -15.97 | 0.296 | 57.0 | 206.5 | -15.7 | 0.276 |
| 4-2250 | 4-3830 | 1.208 | 149.3 | -75.5 | -62.02 | 1.295 | 82.9 | 0.709 | 3.425 | 17.1 | 197.6 | --- | 5.852 | 60.78 | 0.298 | 56.6 | 222.5 | 28.8 | 0.423 |
| 4-2250 | 4-3850 | 0.430 | 19.6 | -40.5 | -13.50 | 1.295 | 83.4 | 0.710 | 3.442 | 16.0 | 197.9 | --- | 5.884 | 12.26 | 0.299 | 56.1 | 209.4 | 9.7 | 0.272 |
| 4-2260 | 4-2580 | 0.897 | 316.6 | -18.5 | -1.49 | 1.395 | 50.7 | 0.98643 | 3.325 | 79.3 | 140.2 | --- | --- | -0.69 | 0.617 | 159.0 | 209.6 | -1.8 | 0.625 |
| 4-2260 | 4-2600 | 0.878 | 315.8 | -18.7 | -1.47 | 1.374 | 50.9 | 0.95112 | 2.214 | 80.7 | 143.4 | --- | --- | -0.68 | 0.568 | 157.3 | 209.1 | -1.8 | 0.578 |
| 4-2260 | 4-2620 | 0.862 | 315.2 | -18.8 | -1.44 | 1.357 | 51.1 | 0.922 | 7.705 | 81.8 | 146.4 | --- | --- | -0.67 | 0.524 | 155.6 | 208.6 | -1.7 | 0.536 |
| 4-2260 | 4-2640 | 0.848 | 314.8 | -18.9 | -1.42 | 1.342 | 51.3 | 0.899 | 5.915 | 82.7 | 149.1 | --- | --- | -0.66 | 0.485 | 153.7 | 208.0 | -1.7 | 0.499 |
| 4-2260 | 4-2660 | 0.836 | 314.4 | -19.0 | -1.40 | 1.330 | 51.6 | 0.880 | 4.964 | 83.3 | 151.6 | --- | --- | -0.65 | 0.450 | 151.7 | 207.4 | -1.7 | 0.466 |
| 4-2260 | 4-2680 | 0.825 | 314.2 | -19.1 | -1.38 | 1.320 | 51.8 | 0.864 | 4.381 | 83.8 | 153.9 | --- | --- | -0.64 | 0.419 | 149.5 | 206.6 | -1.7 | 0.437 |
| 4-2260 | 4-2700 | 0.814 | 314.0 | -19.1 | -1.36 | 1.311 | 52.1 | 0.851 | 3.991 | 84.1 | 156.0 | --- | --- | -0.63 | 0.392 | 147.2 | 205.8 | -1.7 | 0.410 |
| 4-2260 | 4-2720 | 0.805 | 313.9 | -19.1 | -1.33 | 1.304 | 52.4 | 0.839 | 3.716 | 84.3 | 158.0 | --- | --- | -0.63 | 0.367 | 144.8 | 204.9 | -1.6 | 0.387 |
| 4-2260 | 4-2740 | 0.796 | 313.9 | -19.1 | -1.31 | 1.298 | 52.7 | 0.829 | 3.514 | 84.3 | 159.8 | --- | --- | -0.62 | 0.345 | 142.2 | 204.0 | -1.6 | 0.366 |
| 4-2260 | 4-2760 | 0.787 | 314.0 | -19.1 | -1.29 | 1.293 | 53.0 | 0.820 | 3.362 | 84.1 | 161.5 | --- | --- | -0.62 | 0.326 | 139.5 | 203.0 | -1.6 | 0.348 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2260 | 4-2780 | 0.779 | 314.1 | -19.1 | -1.27 | 1.289 | 53.4 | 0.813 | 3.245 | 83.9 | 163.1 | --- | --- | -0.61 | 0.309 | 136.7 | 201.9 | -1.5 | 0.331 |
| 4-2260 | 4-2800 | 0.770 | 314.3 | -19.0 | -1.25 | 1.286 | 53.7 | 0.806 | 3.153 | 83.6 | 164.6 | --- | --- | -0.61 | 0.294 | 133.7 | 200.8 | -1.5 | 0.317 |
| 4-2260 | 4-2820 | 0.762 | 314.5 | -18.9 | -1.23 | 1.283 | 54.1 | 0.800 | 3.081 | 83.2 | 166.0 | --- | --- | -0.61 | 0.280 | 130.7 | 199.6 | -1.5 | 0.304 |
| 4-2260 | 4-2840 | 0.754 | 314.8 | -18.9 | -1.21 | 1.281 | 54.4 | 0.794 | 3.024 | 82.7 | 167.4 | --- | --- | -0.61 | 0.269 | 127.6 | 198.4 | -1.4 | 0.292 |
| 4-2260 | 4-2860 | 0.747 | 315.1 | -18.8 | -1.19 | 1.279 | 54.8 | 0.789 | 2.979 | 82.1 | 168.6 | --- | --- | -0.60 | 0.259 | 124.5 | 197.2 | -1.4 | 0.282 |
| 4-2260 | 4-2880 | 0.739 | 315.4 | -18.7 | -1.18 | 1.277 | 55.2 | 0.784 | 2.944 | 81.5 | 169.8 | --- | --- | -0.60 | 0.251 | 121.3 | 196.0 | -1.3 | 0.273 |
| 4-2260 | 4-2900 | 0.731 | 315.8 | -18.6 | -1.16 | 1.276 | 55.6 | 0.780 | 2.916 | 80.8 | 170.9 | --- | --- | -0.60 | 0.244 | 118.1 | 194.8 | -1.3 | 0.266 |
| 4-2260 | 4-2920 | 0.723 | 316.2 | -18.4 | -1.14 | 1.275 | 56.0 | 0.776 | 2.894 | 80.0 | 172.0 | --- | --- | -0.60 | 0.238 | 115.0 | 193.7 | -1.2 | 0.259 |
| 4-2260 | 4-2940 | 0.716 | 316.7 | -18.3 | -1.12 | 1.274 | 56.4 | 0.772 | 2.878 | 79.2 | 173.0 | --- | --- | -0.60 | 0.233 | 111.8 | 192.6 | -1.2 | 0.253 |
| 4-2260 | 4-2960 | 0.708 | 317.1 | -18.2 | -1.10 | 1.273 | 56.9 | 0.769 | 2.866 | 78.4 | 174.0 | --- | --- | -0.61 | 0.230 | 108.8 | 191.5 | -1.1 | 0.248 |
| 4-2260 | 4-2980 | 0.700 | 317.6 | -18.0 | -1.08 | 1.273 | 57.3 | 0.766 | 2.858 | 77.5 | 175.0 | --- | --- | -0.61 | 0.227 | 105.8 | 190.5 | -1.1 | 0.244 |
| 4-2260 | 4-3000 | 0.693 | 318.1 | -17.9 | -1.06 | 1.273 | 57.8 | 0.763 | 2.854 | 76.6 | 175.9 | --- | --- | -0.61 | 0.225 | 102.9 | 189.6 | -1.1 | 0.241 |
| 4-2260 | 4-3020 | 0.685 | 318.6 | -17.7 | -1.04 | 1.273 | 58.2 | 0.760 | 2.851 | 75.7 | 176.7 | --- | --- | -0.61 | 0.223 | 100.2 | 188.7 | -1.0 | 0.238 |
| 4-2260 | 4-3040 | 0.677 | 319.2 | -17.5 | -1.02 | 1.273 | 58.7 | 0.757 | 2.852 | 74.7 | 177.6 | --- | --- | -0.62 | 0.223 | 97.5 | 187.9 | -1.0 | 0.236 |
| 4-2260 | 4-3060 | 0.669 | 319.7 | -17.4 | -1.00 | 1.273 | 59.1 | 0.754 | 2.854 | 73.7 | 178.4 | --- | --- | -0.62 | 0.223 | 95.0 | 187.2 | -1.0 | 0.234 |
| 4-2260 | 4-3080 | 0.662 | 320.3 | -17.2 | -0.98 | 1.273 | 59.6 | 0.752 | 2.858 | 72.7 | 179.2 | --- | --- | -0.63 | 0.223 | 92.6 | 186.6 | -1.0 | 0.233 |
| 4-2260 | 4-3100 | 0.654 | 320.9 | -17.0 | -0.96 | 1.273 | 60.1 | 0.750 | 2.864 | 71.7 | 179.9 | --- | --- | -0.63 | 0.224 | 90.3 | 186.1 | -0.9 | 0.232 |
| 4-2260 | 4-3120 | 0.646 | 321.5 | -16.8 | -0.94 | 1.274 | 60.5 | 0.747 | 2.871 | 70.6 | 180.6 | --- | 5.016 | -0.64 | 0.225 | 88.1 | 185.6 | -0.9 | 0.231 |
| 4-2260 | 4-3140 | 0.638 | 322.2 | -16.6 | -0.92 | 1.274 | 61.0 | 0.745 | 2.879 | 69.5 | 181.3 | --- | 5.025 | -0.65 | 0.226 | 86.1 | 185.3 | -0.9 | 0.231 |
| 4-2260 | 4-3160 | 0.630 | 322.8 | -16.4 | -0.90 | 1.274 | 61.5 | 0.743 | 2.888 | 68.5 | 182.0 | --- | 5.035 | -0.66 | 0.227 | 84.2 | 185.0 | -0.9 | 0.230 |
| 4-2260 | 4-3180 | 0.622 | 323.5 | -16.1 | -0.87 | 1.275 | 62.0 | 0.741 | 2.898 | 67.3 | 182.7 | --- | 5.047 | -0.67 | 0.229 | 82.4 | 184.8 | -0.9 | 0.231 |
| 4-2260 | 4-3200 | 0.614 | 324.2 | -15.9 | -0.85 | 1.275 | 62.5 | 0.740 | 2.909 | 66.2 | 183.3 | --- | 5.061 | -0.68 | 0.231 | 80.7 | 184.7 | -0.9 | 0.231 |
| 4-2260 | 4-3220 | 0.607 | 324.9 | -15.6 | -0.83 | 1.276 | 63.0 | 0.738 | 2.921 | 65.1 | 184.0 | --- | 5.076 | -0.69 | 0.233 | 79.1 | 184.7 | -0.9 | 0.231 |
| 4-2260 | 4-3240 | 0.599 | 325.6 | -15.4 | -0.80 | 1.277 | 63.5 | 0.736 | 2.934 | 63.9 | 184.6 | --- | 5.093 | -0.70 | 0.235 | 77.6 | 184.7 | -0.9 | 0.232 |
| 4-2260 | 4-3260 | 0.591 | 326.3 | -15.1 | -0.78 | 1.277 | 64.0 | 0.735 | 2.947 | 62.7 | 185.2 | --- | 5.111 | -0.71 | 0.237 | 76.2 | 184.9 | -1.0 | 0.233 |
| 4-2260 | 4-3280 | 0.583 | 327.1 | -14.8 | -0.75 | 1.278 | 64.5 | 0.733 | 2.960 | 61.6 | 185.7 | --- | 5.130 | -0.73 | 0.240 | 74.9 | 185.1 | -1.0 | 0.233 |
| 4-2260 | 4-3300 | 0.575 | 327.9 | -14.5 | -0.72 | 1.278 | 65.0 | 0.732 | 2.974 | 60.4 | 186.3 | --- | 5.150 | -0.74 | 0.242 | 73.6 | 185.3 | -1.0 | 0.234 |
| 4-2260 | 4-3320 | 0.567 | 328.6 | -14.2 | -0.69 | 1.279 | 65.5 | 0.730 | 2.989 | 59.2 | 186.8 | --- | 5.171 | -0.76 | 0.244 | 72.4 | 185.6 | -1.1 | 0.235 |
| 4-2260 | 4-3340 | 0.559 | 329.4 | -13.9 | -0.66 | 1.280 | 66.0 | 0.729 | 3.004 | 58.0 | 187.4 | --- | 5.193 | -0.78 | 0.247 | 71.3 | 186.0 | -1.1 | 0.236 |
| 4-2260 | 4-3360 | 0.551 | 330.3 | -13.6 | -0.63 | 1.280 | 66.5 | 0.728 | 3.019 | 56.8 | 187.9 | --- | 5.216 | -0.80 | 0.249 | 70.3 | 186.5 | -1.1 | 0.237 |
| 4-2260 | 4-3380 | 0.544 | 331.1 | -13.2 | -0.60 | 1.281 | 67.0 | 0.727 | 3.034 | 55.5 | 188.4 | --- | 5.239 | -0.82 | 0.251 | 69.3 | 186.9 | -1.2 | 0.238 |
| 4-2260 | 4-3400 | 0.536 | 331.9 | -12.9 | -0.56 | 1.282 | 67.5 | 0.725 | 3.050 | 54.3 | 188.9 | --- | 5.263 | -0.85 | 0.254 | 68.4 | 187.5 | -1.2 | 0.240 |
| 4-2260 | 4-3420 | 0.528 | 332.8 | -12.5 | -0.53 | 1.282 | 68.0 | 0.724 | 3.066 | 53.1 | 189.4 | --- | 5.287 | -0.87 | 0.256 | 67.5 | 188.1 | -1.3 | 0.241 |
| 4-2260 | 4-3440 | 0.520 | 333.7 | -12.1 | -0.49 | 1.283 | 68.5 | 0.723 | 3.082 | 51.8 | 189.9 | --- | 5.312 | -0.90 | 0.258 | 66.6 | 188.7 | -1.3 | 0.242 |
| 4-2260 | 4-3460 | 0.513 | 334.6 | -11.7 | -0.45 | 1.284 | 69.1 | 0.723 | 3.098 | 50.6 | 190.3 | --- | 5.337 | -0.93 | 0.260 | 65.8 | 189.4 | -1.4 | 0.243 |
| 4-2260 | 4-3480 | 0.505 | 335.5 | -11.2 | -0.40 | 1.284 | 69.6 | 0.722 | 3.115 | 49.3 | 190.8 | --- | 5.363 | -0.97 | 0.263 | 65.1 | 190.1 | -1.5 | 0.244 |
| 4-2260 | 4-3500 | 0.497 | 336.4 | -10.8 | -0.35 | 1.285 | 70.1 | 0.721 | 3.132 | 48.0 | 191.2 | --- | 5.389 | -1.01 | 0.265 | 64.4 | 190.8 | -1.6 | 0.246 |
| 4-2260 | 4-3520 | 0.490 | 337.4 | -10.3 | -0.30 | 1.286 | 70.6 | 0.720 | 3.148 | 46.8 | 191.7 | --- | 5.416 | -1.05 | 0.267 | 63.7 | 191.6 | -1.6 | 0.247 |
| 4-2260 | 4-3540 | 0.482 | 338.3 | -9.8 | -0.24 | 1.286 | 71.2 | 0.719 | 3.165 | 45.5 | 192.1 | --- | 5.443 | -1.09 | 0.269 | 63.0 | 192.4 | -1.7 | 0.248 |
| 4-2260 | 4-3560 | 0.475 | 339.3 | -9.2 | -0.18 | 1.287 | 71.7 | 0.719 | 3.182 | 44.2 | 192.5 | --- | 5.470 | -1.15 | 0.271 | 62.4 | 193.3 | -1.8 | 0.249 |
| 4-2260 | 4-3580 | 0.467 | 340.3 | -8.6 | -0.12 | 1.288 | 72.2 | 0.718 | 3.199 | 43.0 | 192.9 | --- | 5.498 | -1.20 | 0.273 | 61.8 | 194.1 | -1.9 | 0.250 |
| 4-2260 | 4-3600 | 0.460 | 341.3 | -8.0 | -0.04 | 1.288 | 72.7 | 0.718 | 3.217 | 41.7 | 193.3 | --- | 5.526 | -1.27 | 0.275 | 61.2 | 195.0 | -2.0 | 0.252 |
| 4-2260 | 4-3620 | 0.453 | 342.4 | -7.4 | 0.04 | 1.289 | 73.3 | 0.717 | 3.234 | 40.4 | 193.7 | --- | 5.554 | -1.34 | 0.277 | 60.7 | 196.0 | -2.1 | 0.253 |
| 4-2260 | 4-3640 | 0.446 | 343.4 | -6.7 | 0.13 | 1.289 | 73.8 | 0.717 | 3.251 | 39.1 | 194.1 | --- | 5.582 | -1.43 | 0.279 | 60.1 | 196.9 | -2.3 | 0.254 |
| 4-2260 | 4-3660 | 0.439 | 344.5 | -5.9 | 0.24 | 1.290 | 74.3 | 0.717 | 3.268 | 37.8 | 194.5 | --- | 5.611 | -1.52 | 0.281 | 59.6 | 197.9 | -2.4 | 0.255 |
| 4-2260 | 4-3680 | 0.432 | 345.5 | -5.1 | 0.36 | 1.291 | 74.9 | 0.716 | 3.286 | 36.5 | 194.9 | --- | 5.640 | -1.63 | 0.283 | 59.1 | 198.9 | -2.5 | 0.257 |
| 4-2260 | 4-3700 | 0.425 | 346.6 | -4.2 | 0.50 | 1.291 | 75.4 | 0.716 | 3.303 | 35.2 | 195.2 | --- | 5.669 | -1.76 | 0.285 | 58.7 | 199.9 | -2.7 | 0.258 |
| 4-2260 | 4-3720 | 0.419 | 347.6 | -3.2 | 0.66 | 1.292 | 75.9 | 0.716 | 3.320 | 33.9 | 195.6 | --- | 5.698 | -1.91 | 0.287 | 58.2 | 200.9 | -2.9 | 0.259 |
| 4-2260 | 4-3740 | 0.412 | 348.7 | -2.1 | 0.85 | 1.293 | 76.5 | 0.716 | 3.338 | 32.6 | 195.9 | --- | 5.727 | -2.10 | 0.289 | 57.8 | 202.0 | -3.1 | 0.260 |
| 4-2260 | 4-3760 | 0.406 | 349.7 | -0.8 | 1.08 | 1.293 | 77.0 | 0.716 | 3.355 | 31.3 | 196.3 | --- | 5.757 | -2.32 | 0.291 | 57.3 | 203.1 | -3.4 | 0.261 |
| 4-2260 | 4-3780 | 0.400 | 350.7 | 0.7 | 1.37 | 1.294 | 77.5 | 0.716 | 3.372 | 30.0 | 196.6 | --- | 5.787 | -2.60 | 0.292 | 56.9 | 204.1 | -3.7 | 0.263 |
| 4-2260 | 4-3800 | 0.395 | 351.5 | 2.4 | 1.73 | 1.294 | 78.1 | 0.716 | 3.390 | 28.7 | 196.9 | --- | 5.816 | -2.95 | 0.294 | 56.5 | 205.2 | -4.1 | 0.264 |
| 4-2260 | 4-3820 | 0.390 | 352.3 | 4.5 | 2.21 | 1.295 | 78.6 | 0.716 | 3.407 | 27.4 | 197.3 | --- | 5.846 | -3.42 | 0.296 | 56.1 | 206.3 | -4.5 | 0.265 |
| 4-2260 | 4-3840 | 0.386 | 352.8 | 7.2 | 2.86 | 1.296 | 79.1 | 0.716 | 3.424 | 26.1 | 197.6 | --- | 5.877 | -4.06 | 0.297 | 55.7 | 207.5 | -5.2 | 0.267 |
| 4-2260 | 4-3860 | 0.383 | 352.8 | 10.8 | 3.81 | 1.296 | 79.7 | 0.716 | 3.442 | 24.8 | 197.9 | --- | 5.907 | -5.01 | 0.299 | 55.3 | 208.6 | -6.1 | 0.268 |
| 4-2270 | 4-2590 | 1.009 | 318.5 | -17.7 | -1.65 | 1.384 | 43.8 | 0.9731 | 7.663 | 94.0 | 146.3 | --- | --- | -1.00 | 0.589 | 160.6 | 207.6 | -1.7 | 0.617 |
| 4-2270 | 4-2610 | 0.989 | 318.0 | -17.8 | -1.61 | 1.364 | 44.2 | 0.947 | 8.952 | 95.0 | 149.1 | --- | --- | -0.97 | 0.541 | 158.9 | 207.0 | -1.7 | 0.571 |
| 4-2270 | 4-2630 | 0.971 | 317.7 | -17.9 | -1.57 | 1.348 | 44.6 | 0.925 | 6.390 | 95.7 | 151.6 | --- | --- | -0.95 | 0.497 | 157.1 | 206.4 | -1.7 | 0.530 |
| 4-2270 | 4-2650 | 0.955 | 317.4 | -17.9 | -1.54 | 1.334 | 45.0 | 0.907 | 5.178 | 96.2 | 154.0 | --- | --- | -0.93 | 0.459 | 155.1 | 205.7 | -1.7 | 0.495 |
| 4-2270 | 4-2670 | 0.940 | 317.3 | -18.0 | -1.50 | 1.323 | 45.4 | 0.893 | 4.480 | 96.5 | 156.1 | --- | --- | -0.91 | 0.425 | 153.0 | 204.9 | -1.7 | 0.463 |
| 4-2270 | 4-2690 | 0.927 | 317.2 | -18.0 | -1.47 | 1.313 | 45.8 | 0.880 | 4.031 | 96.7 | 158.1 | --- | --- | -0.90 | 0.395 | 150.8 | 204.1 | -1.7 | 0.435 |
| 4-2270 | 4-2710 | 0.915 | 317.3 | -18.0 | -1.44 | 1.306 | 46.2 | 0.869 | 3.723 | 96.6 | 159.9 | --- | --- | -0.88 | 0.368 | 148.4 | 203.2 | -1.6 | 0.410 |
| 4-2270 | 4-2730 | 0.903 | 317.3 | -17.9 | -1.41 | 1.299 | 46.6 | 0.859 | 3.501 | 96.5 | 161.5 | --- | --- | -0.87 | 0.344 | 145.8 | 202.2 | -1.6 | 0.388 |
| 4-2270 | 4-2750 | 0.893 | 317.5 | -17.9 | -1.38 | 1.294 | 47.0 | 0.851 | 3.336 | 96.2 | 163.1 | --- | --- | -0.86 | 0.322 | 143.1 | 201.2 | -1.6 | 0.368 |
| 4-2270 | 4-2770 | 0.882 | 317.6 | -17.8 | -1.35 | 1.289 | 47.5 | 0.843 | 3.211 | 95.8 | 164.6 | --- | --- | -0.84 | 0.303 | 140.2 | 200.1 | -1.5 | 0.350 |
| 4-2270 | 4-2790 | 0.872 | 317.9 | -17.7 | -1.32 | 1.285 | 47.9 | 0.837 | 3.114 | 95.4 | 165.9 | --- | --- | -0.83 | 0.287 | 137.2 | 199.0 | -1.5 | 0.335 |
| 4-2270 | 4-2810 | 0.863 | 318.1 | -17.6 | -1.29 | 1.282 | 48.3 | 0.830 | 3.038 | 94.8 | 167.2 | --- | --- | -0.83 | 0.272 | 134.0 | 197.9 | -1.4 | 0.321 |
| 4-2270 | 4-2830 | 0.853 | 318.4 | -17.5 | -1.26 | 1.280 | 48.8 | 0.825 | 2.979 | 94.2 | 168.4 | --- | --- | -0.82 | 0.260 | 130.8 | 196.7 | -1.4 | 0.309 |
| 4-2270 | 4-2850 | 0.844 | 318.8 | -17.4 | -1.24 | 1.278 | 49.2 | 0.820 | 2.933 | 93.5 | 169.6 | --- | --- | -0.81 | 0.249 | 127.4 | 195.6 | -1.4 | 0.298 |
| 4-2270 | 4-2870 | 0.835 | 319.1 | -17.3 | -1.21 | 1.276 | 49.7 | 0.815 | 2.896 | 92.8 | 170.7 | --- | --- | -0.80 | 0.240 | 124.0 | 194.4 | -1.3 | 0.289 |
| 4-2270 | 4-2890 | 0.826 | 319.5 | -17.2 | -1.18 | 1.275 | 50.2 | 0.810 | 2.868 | 92.0 | 171.7 | --- | --- | -0.80 | 0.232 | 120.6 | 193.3 | -1.3 | 0.281 |
| 4-2270 | 4-2910 | 0.817 | 319.9 | -17.1 | -1.16 | 1.273 | 50.7 | 0.806 | 2.846 | 91.2 | 172.7 | --- | --- | -0.80 | 0.226 | 117.1 | 192.2 | -1.2 | 0.274 |
| 4-2270 | 4-2930 | 0.808 | 320.3 | -16.9 | -1.13 | 1.273 | 51.1 | 0.802 | 2.830 | 90.3 | 173.6 | --- | --- | -0.79 | 0.220 | 113.7 | 191.1 | -1.2 | 0.268 |
| 4-2270 | 4-2950 | 0.800 | 320.8 | -16.8 | -1.11 | 1.272 | 51.6 | 0.798 | 2.818 | 89.4 | 174.5 | --- | --- | -0.79 | 0.217 | 110.3 | 190.1 | -1.2 | 0.263 |
| 4-2270 | 4-2970 | 0.791 | 321.3 | -16.6 | -1.08 | 1.272 | 52.1 | 0.795 | 2.811 | 88.5 | 175.4 | --- | --- | -0.79 | 0.214 | 107.0 | 189.2 | -1.1 | 0.258 |
| 4-2270 | 4-2990 | 0.782 | 321.7 | -16.5 | -1.06 | 1.272 | 52.6 | 0.791 | 2.806 | 87.5 | 176.2 | --- | --- | -0.79 | 0.212 | 103.9 | 188.3 | -1.1 | 0.255 |
| 4-2270 | 4-3010 | 0.774 | 322.2 | -16.3 | -1.03 | 1.271 | 53.1 | 0.788 | 2.805 | 86.5 | 177.0 | --- | --- | -0.79 | 0.210 | 100.8 | 187.5 | -1.0 | 0.252 |
| 4-2270 | 4-3030 | 0.765 | 322.8 | -16.1 | -1.01 | 1.271 | 53.6 | 0.785 | 2.805 | 85.5 | 177.8 | --- | --- | -0.79 | 0.210 | 97.9 | 186.8 | -1.0 | 0.249 |
| 4-2270 | 4-3050 | 0.756 | 323.3 | -15.9 | -0.98 | 1.272 | 54.1 | 0.782 | 2.808 | 84.4 | 178.6 | --- | --- | -0.79 | 0.210 | 95.1 | 186.1 | -1.0 | 0.247 |
| 4-2270 | 4-3070 | 0.748 | 323.8 | -15.8 | -0.96 | 1.272 | 54.6 | 0.779 | 2.813 | 83.3 | 179.3 | --- | --- | -0.79 | 0.210 | 92.5 | 185.6 | -1.0 | 0.245 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2270 | 4-3090 | 0.739 | 324.4 | -15.6 | -0.93 | 1.272 | 55.1 | 0.776 | 2.819 | 82.3 | 180.0 | --- | 5.008 | -0.79 | 0.211 | 90.0 | 185.1 | -1.0 | 0.244 |
| 4-2270 | 4-3110 | 0.730 | 325.0 | -15.4 | -0.91 | 1.273 | 55.7 | 0.774 | 2.827 | 81.2 | 180.7 | --- | 5.014 | -0.80 | 0.213 | 87.7 | 184.7 | -1.0 | 0.243 |
| 4-2270 | 4-3130 | 0.722 | 325.6 | -15.2 | -0.88 | 1.273 | 56.2 | 0.771 | 2.836 | 80.0 | 181.3 | --- | 5.023 | -0.80 | 0.214 | 85.5 | 184.4 | -0.9 | 0.243 |
| 4-2270 | 4-3150 | 0.713 | 326.2 | -14.9 | -0.86 | 1.273 | 56.7 | 0.769 | 2.846 | 78.9 | 182.0 | --- | 5.033 | -0.81 | 0.216 | 83.4 | 184.2 | -0.9 | 0.242 |
| 4-2270 | 4-3170 | 0.705 | 326.8 | -14.7 | -0.83 | 1.274 | 57.2 | 0.766 | 2.857 | 77.7 | 182.6 | --- | 5.046 | -0.81 | 0.218 | 81.5 | 184.1 | -0.9 | 0.242 |
| 4-2270 | 4-3190 | 0.696 | 327.4 | -14.5 | -0.81 | 1.275 | 57.7 | 0.764 | 2.868 | 76.6 | 183.2 | --- | 5.060 | -0.82 | 0.221 | 79.7 | 184.0 | -1.0 | 0.242 |
| 4-2270 | 4-3210 | 0.688 | 328.0 | -14.2 | -0.78 | 1.275 | 58.3 | 0.762 | 2.881 | 75.4 | 183.8 | --- | 5.076 | -0.83 | 0.223 | 78.0 | 184.0 | -1.0 | 0.242 |
| 4-2270 | 4-3230 | 0.679 | 328.7 | -14.0 | -0.75 | 1.276 | 58.8 | 0.760 | 2.894 | 74.2 | 184.4 | --- | 5.093 | -0.84 | 0.225 | 76.5 | 184.1 | -1.0 | 0.243 |
| 4-2270 | 4-3250 | 0.670 | 329.3 | -13.7 | -0.72 | 1.276 | 59.3 | 0.758 | 2.908 | 73.0 | 185.0 | --- | 5.111 | -0.85 | 0.228 | 75.0 | 184.3 | -1.0 | 0.243 |
| 4-2270 | 4-3270 | 0.662 | 330.0 | -13.5 | -0.70 | 1.277 | 59.8 | 0.756 | 2.922 | 71.8 | 185.5 | --- | 5.130 | -0.86 | 0.231 | 73.6 | 184.5 | -1.0 | 0.244 |
| 4-2270 | 4-3290 | 0.653 | 330.7 | -13.2 | -0.67 | 1.278 | 60.4 | 0.754 | 2.937 | 70.6 | 186.1 | --- | 5.151 | -0.87 | 0.233 | 72.4 | 184.8 | -1.1 | 0.244 |
| 4-2270 | 4-3310 | 0.645 | 331.4 | -12.9 | -0.64 | 1.278 | 60.9 | 0.752 | 2.952 | 69.4 | 186.6 | --- | 5.172 | -0.88 | 0.236 | 71.2 | 185.1 | -1.1 | 0.245 |
| 4-2270 | 4-3330 | 0.636 | 332.1 | -12.6 | -0.61 | 1.279 | 61.4 | 0.750 | 2.967 | 68.1 | 187.1 | --- | 5.194 | -0.90 | 0.239 | 70.0 | 185.6 | -1.1 | 0.246 |
| 4-2270 | 4-3350 | 0.628 | 332.8 | -12.3 | -0.57 | 1.280 | 62.0 | 0.749 | 2.983 | 66.9 | 187.6 | --- | 5.216 | -0.92 | 0.241 | 69.0 | 186.0 | -1.2 | 0.247 |
| 4-2270 | 4-3370 | 0.619 | 333.5 | -12.0 | -0.54 | 1.281 | 62.5 | 0.747 | 2.999 | 65.7 | 188.1 | --- | 5.240 | -0.93 | 0.244 | 68.0 | 186.5 | -1.2 | 0.248 |
| 4-2270 | 4-3390 | 0.611 | 334.2 | -11.7 | -0.51 | 1.281 | 63.0 | 0.745 | 3.016 | 64.4 | 188.6 | --- | 5.264 | -0.95 | 0.247 | 67.1 | 187.1 | -1.2 | 0.249 |
| 4-2270 | 4-3410 | 0.602 | 335.0 | -11.4 | -0.47 | 1.282 | 63.6 | 0.744 | 3.032 | 63.2 | 189.1 | --- | 5.288 | -0.97 | 0.249 | 66.2 | 187.7 | -1.3 | 0.250 |
| 4-2270 | 4-3430 | 0.594 | 335.7 | -11.0 | -0.44 | 1.283 | 64.1 | 0.743 | 3.049 | 61.9 | 189.5 | --- | 5.313 | -0.99 | 0.252 | 65.4 | 188.3 | -1.4 | 0.251 |
| 4-2270 | 4-3450 | 0.585 | 336.5 | -10.6 | -0.40 | 1.283 | 64.7 | 0.741 | 3.066 | 60.6 | 190.0 | --- | 5.339 | -1.02 | 0.254 | 64.6 | 189.0 | -1.4 | 0.251 |
| 4-2270 | 4-3470 | 0.577 | 337.3 | -10.3 | -0.36 | 1.284 | 65.2 | 0.740 | 3.083 | 59.4 | 190.4 | --- | 5.365 | -1.04 | 0.257 | 63.8 | 189.7 | -1.5 | 0.252 |
| 4-2270 | 4-3490 | 0.569 | 338.1 | -9.9 | -0.31 | 1.285 | 65.7 | 0.739 | 3.101 | 58.1 | 190.9 | --- | 5.391 | -1.07 | 0.259 | 63.1 | 190.5 | -1.5 | 0.253 |
| 4-2270 | 4-3510 | 0.560 | 338.9 | -9.5 | -0.27 | 1.285 | 66.3 | 0.737 | 3.118 | 56.8 | 191.3 | --- | 5.417 | -1.10 | 0.262 | 62.5 | 191.3 | -1.6 | 0.255 |
| 4-2270 | 4-3530 | 0.552 | 339.7 | -9.1 | -0.22 | 1.286 | 66.8 | 0.736 | 3.136 | 55.5 | 191.7 | --- | 5.444 | -1.14 | 0.264 | 61.8 | 192.1 | -1.7 | 0.256 |
| 4-2270 | 4-3550 | 0.544 | 340.6 | -8.6 | -0.17 | 1.287 | 67.3 | 0.735 | 3.153 | 54.3 | 192.1 | --- | 5.472 | -1.17 | 0.266 | 61.2 | 192.9 | -1.8 | 0.257 |
| 4-2270 | 4-3570 | 0.536 | 341.4 | -8.1 | -0.12 | 1.288 | 67.9 | 0.734 | 3.171 | 53.0 | 192.5 | --- | 5.499 | -1.21 | 0.269 | 60.7 | 193.8 | -1.8 | 0.258 |
| 4-2270 | 4-3590 | 0.528 | 342.3 | -7.7 | -0.06 | 1.288 | 68.4 | 0.733 | 3.189 | 51.7 | 192.9 | --- | 5.527 | -1.26 | 0.271 | 60.1 | 194.7 | -1.9 | 0.259 |
| 4-2270 | 4-3610 | 0.520 | 343.2 | -7.2 | -0.00 | 1.289 | 69.0 | 0.732 | 3.207 | 50.4 | 193.3 | --- | 5.555 | -1.30 | 0.273 | 59.6 | 195.6 | -2.0 | 0.260 |
| 4-2270 | 4-3630 | 0.512 | 344.1 | -6.6 | 0.07 | 1.290 | 69.5 | 0.731 | 3.224 | 49.1 | 193.7 | --- | 5.583 | -1.36 | 0.275 | 59.1 | 196.6 | -2.1 | 0.261 |
| 4-2270 | 4-3650 | 0.504 | 345.0 | -6.1 | 0.14 | 1.290 | 70.0 | 0.731 | 3.242 | 47.8 | 194.1 | --- | 5.612 | -1.42 | 0.277 | 58.6 | 197.6 | -2.2 | 0.262 |
| 4-2270 | 4-3670 | 0.496 | 345.9 | -5.5 | 0.21 | 1.291 | 70.6 | 0.730 | 3.260 | 46.5 | 194.4 | --- | 5.640 | -1.48 | 0.280 | 58.2 | 198.6 | -2.3 | 0.263 |
| 4-2270 | 4-3690 | 0.488 | 346.8 | -4.8 | 0.30 | 1.292 | 71.1 | 0.729 | 3.278 | 45.2 | 194.8 | --- | 5.669 | -1.55 | 0.282 | 57.7 | 199.6 | -2.4 | 0.264 |
| 4-2270 | 4-3710 | 0.480 | 347.8 | -4.2 | 0.39 | 1.292 | 71.7 | 0.729 | 3.296 | 43.9 | 195.2 | --- | 5.698 | -1.64 | 0.284 | 57.3 | 200.6 | -2.6 | 0.264 |
| 4-2270 | 4-3730 | 0.473 | 348.7 | -3.5 | 0.50 | 1.293 | 72.2 | 0.728 | 3.314 | 42.6 | 195.5 | --- | 5.727 | -1.73 | 0.285 | 56.9 | 201.6 | -2.7 | 0.265 |
| 4-2270 | 4-3750 | 0.465 | 349.7 | -2.7 | 0.61 | 1.293 | 72.7 | 0.728 | 3.332 | 41.3 | 195.8 | --- | 5.756 | -1.83 | 0.287 | 56.5 | 202.7 | -2.8 | 0.266 |
| 4-2270 | 4-3770 | 0.458 | 350.6 | -1.9 | 0.74 | 1.294 | 73.3 | 0.727 | 3.350 | 40.0 | 196.2 | --- | 5.786 | -1.95 | 0.289 | 56.1 | 203.8 | -3.0 | 0.267 |
| 4-2270 | 4-3790 | 0.451 | 351.6 | -1.0 | 0.89 | 1.295 | 73.8 | 0.727 | 3.368 | 38.7 | 196.5 | --- | 5.815 | -2.08 | 0.291 | 55.7 | 204.9 | -3.2 | 0.268 |
| 4-2270 | 4-3810 | 0.444 | 352.6 | 0.0 | 1.06 | 1.295 | 74.4 | 0.726 | 3.385 | 37.4 | 196.8 | --- | 5.845 | -2.24 | 0.293 | 55.4 | 206.0 | -3.4 | 0.269 |
| 4-2270 | 4-3830 | 0.437 | 353.5 | 1.1 | 1.25 | 1.296 | 74.9 | 0.726 | 3.403 | 36.1 | 197.2 | --- | 5.875 | -2.43 | 0.295 | 55.0 | 207.1 | -3.6 | 0.270 |
| 4-2270 | 4-3850 | 0.430 | 354.4 | 2.3 | 1.49 | 1.296 | 75.5 | 0.726 | 3.421 | 34.8 | 197.5 | --- | 5.905 | -2.65 | 0.296 | 54.7 | 208.3 | -3.8 | 0.271 |
| 4-2270 | 4-3870 | 0.424 | 355.3 | 3.7 | 1.76 | 1.297 | 76.0 | 0.726 | 3.439 | 33.5 | 197.8 | --- | 5.935 | -2.91 | 0.298 | 54.3 | 209.4 | -4.1 | 0.272 |
| 4-2280 | 4-2600 | 1.126 | 321.1 | -16.7 | -1.89 | 1.375 | 36.8 | 0.969 | 11.535 | 108.9 | 152.5 | --- | --- | -1.38 | 0.563 | 162.6 | 205.4 | -1.7 | 0.613 |
| 4-2280 | 4-2620 | 1.102 | 320.9 | -16.7 | -1.83 | 1.356 | 37.3 | 0.951 | 7.210 | 109.4 | 154.8 | --- | --- | -1.33 | 0.515 | 161.0 | 204.7 | -1.7 | 0.568 |
| 4-2280 | 4-2640 | 1.082 | 320.8 | -16.7 | -1.77 | 1.340 | 37.9 | 0.935 | 5.529 | 109.6 | 156.8 | --- | --- | -1.29 | 0.472 | 159.1 | 204.0 | -1.7 | 0.529 |
| 4-2280 | 4-2660 | 1.064 | 320.8 | -16.7 | -1.72 | 1.327 | 38.5 | 0.922 | 4.646 | 109.7 | 158.7 | --- | --- | -1.26 | 0.434 | 157.1 | 203.2 | -1.6 | 0.495 |
| 4-2280 | 4-2680 | 1.047 | 320.8 | -16.7 | -1.67 | 1.317 | 39.0 | 0.910 | 4.109 | 109.6 | 160.5 | --- | --- | -1.22 | 0.401 | 155.0 | 202.4 | -1.6 | 0.464 |
| 4-2280 | 4-2700 | 1.032 | 320.9 | -16.7 | -1.62 | 1.308 | 39.6 | 0.900 | 3.752 | 109.3 | 162.0 | --- | --- | -1.19 | 0.371 | 152.7 | 201.4 | -1.6 | 0.437 |
| 4-2280 | 4-2720 | 1.018 | 321.1 | -16.6 | -1.57 | 1.300 | 40.1 | 0.892 | 3.502 | 109.0 | 163.5 | --- | --- | -1.17 | 0.344 | 150.2 | 200.5 | -1.6 | 0.413 |
| 4-2280 | 4-2740 | 1.005 | 321.3 | -16.5 | -1.53 | 1.294 | 40.6 | 0.884 | 3.319 | 108.5 | 164.9 | --- | --- | -1.14 | 0.320 | 147.5 | 199.4 | -1.5 | 0.392 |
| 4-2280 | 4-2760 | 0.992 | 321.5 | -16.4 | -1.48 | 1.289 | 41.2 | 0.876 | 3.183 | 108.0 | 166.2 | --- | --- | -1.12 | 0.299 | 144.6 | 198.4 | -1.5 | 0.373 |
| 4-2280 | 4-2780 | 0.980 | 321.8 | -16.3 | -1.44 | 1.285 | 41.7 | 0.870 | 3.078 | 107.3 | 167.4 | --- | --- | -1.10 | 0.280 | 141.5 | 197.3 | -1.4 | 0.357 |
| 4-2280 | 4-2800 | 0.969 | 322.1 | -16.2 | -1.40 | 1.282 | 42.3 | 0.864 | 2.998 | 106.7 | 168.5 | --- | --- | -1.08 | 0.264 | 138.2 | 196.2 | -1.4 | 0.342 |
| 4-2280 | 4-2820 | 0.957 | 322.4 | -16.1 | -1.37 | 1.279 | 42.8 | 0.858 | 2.935 | 105.9 | 169.6 | --- | --- | -1.06 | 0.250 | 134.8 | 195.1 | -1.4 | 0.329 |
| 4-2280 | 4-2840 | 0.947 | 322.8 | -16.0 | -1.33 | 1.277 | 43.4 | 0.853 | 2.886 | 105.1 | 170.6 | --- | --- | -1.04 | 0.238 | 131.2 | 193.9 | -1.3 | 0.318 |
| 4-2280 | 4-2860 | 0.936 | 323.2 | -15.9 | -1.29 | 1.275 | 43.9 | 0.848 | 2.848 | 104.2 | 171.6 | --- | --- | -1.03 | 0.227 | 127.6 | 192.8 | -1.3 | 0.308 |
| 4-2280 | 4-2880 | 0.926 | 323.6 | -15.7 | -1.26 | 1.274 | 44.5 | 0.843 | 2.819 | 103.3 | 172.5 | --- | --- | -1.02 | 0.219 | 123.8 | 191.8 | -1.2 | 0.299 |
| 4-2280 | 4-2900 | 0.916 | 324.0 | -15.6 | -1.22 | 1.272 | 45.0 | 0.839 | 2.796 | 102.4 | 173.4 | --- | --- | -1.00 | 0.212 | 120.0 | 190.7 | -1.2 | 0.292 |
| 4-2280 | 4-2920 | 0.906 | 324.4 | -15.4 | -1.19 | 1.272 | 45.6 | 0.834 | 2.780 | 101.5 | 174.2 | --- | --- | -0.99 | 0.206 | 116.2 | 189.7 | -1.2 | 0.285 |
| 4-2280 | 4-2940 | 0.896 | 324.9 | -15.3 | -1.16 | 1.271 | 46.1 | 0.830 | 2.768 | 100.5 | 175.1 | --- | --- | -0.98 | 0.202 | 112.5 | 188.8 | -1.1 | 0.280 |
| 4-2280 | 4-2960 | 0.886 | 325.3 | -15.1 | -1.13 | 1.271 | 46.7 | 0.827 | 2.761 | 99.4 | 175.9 | --- | --- | -0.98 | 0.198 | 108.8 | 187.9 | -1.1 | 0.275 |
| 4-2280 | 4-2980 | 0.876 | 325.8 | -14.9 | -1.09 | 1.270 | 47.2 | 0.823 | 2.757 | 98.4 | 176.6 | --- | --- | -0.97 | 0.196 | 105.2 | 187.1 | -1.1 | 0.271 |
| 4-2280 | 4-3000 | 0.867 | 326.3 | -14.7 | -1.06 | 1.270 | 47.8 | 0.819 | 2.755 | 97.3 | 177.4 | --- | --- | -0.96 | 0.195 | 101.8 | 186.4 | -1.0 | 0.267 |
| 4-2280 | 4-3020 | 0.857 | 326.8 | -14.6 | -1.03 | 1.270 | 48.3 | 0.816 | 2.756 | 96.2 | 178.1 | --- | --- | -0.96 | 0.195 | 98.5 | 185.7 | -1.0 | 0.265 |
| 4-2280 | 4-3040 | 0.848 | 327.3 | -14.4 | -1.00 | 1.271 | 48.9 | 0.812 | 2.760 | 95.1 | 178.8 | --- | --- | -0.96 | 0.195 | 95.4 | 185.1 | -1.0 | 0.262 |
| 4-2280 | 4-3060 | 0.838 | 327.9 | -14.2 | -0.97 | 1.271 | 49.5 | 0.809 | 2.765 | 94.0 | 179.4 | --- | --- | -0.95 | 0.196 | 92.4 | 184.6 | -1.0 | 0.260 |
| 4-2280 | 4-3080 | 0.829 | 328.4 | -14.0 | -0.94 | 1.271 | 50.0 | 0.806 | 2.772 | 92.8 | 180.1 | --- | 5.006 | -0.95 | 0.197 | 89.7 | 184.2 | -1.0 | 0.259 |
| 4-2280 | 4-3100 | 0.819 | 328.9 | -13.8 | -0.91 | 1.272 | 50.6 | 0.803 | 2.780 | 91.7 | 180.7 | --- | 5.012 | -0.95 | 0.199 | 87.1 | 183.9 | -0.9 | 0.258 |
| 4-2280 | 4-3120 | 0.810 | 329.5 | -13.6 | -0.88 | 1.272 | 51.1 | 0.800 | 2.789 | 90.5 | 181.3 | --- | 5.021 | -0.95 | 0.201 | 84.7 | 183.7 | -0.9 | 0.257 |
| 4-2280 | 4-3140 | 0.801 | 330.1 | -13.3 | -0.85 | 1.273 | 51.7 | 0.797 | 2.800 | 89.3 | 181.9 | --- | 5.032 | -0.95 | 0.203 | 82.5 | 183.5 | -0.9 | 0.256 |
| 4-2280 | 4-3160 | 0.791 | 330.6 | -13.1 | -0.82 | 1.273 | 52.3 | 0.794 | 2.812 | 88.1 | 182.5 | --- | 5.045 | -0.95 | 0.206 | 80.4 | 183.4 | -0.9 | 0.256 |
| 4-2280 | 4-3180 | 0.782 | 331.2 | -12.9 | -0.79 | 1.274 | 52.8 | 0.792 | 2.824 | 86.9 | 183.1 | --- | 5.059 | -0.96 | 0.208 | 78.5 | 183.4 | -0.9 | 0.255 |
| 4-2280 | 4-3200 | 0.773 | 331.8 | -12.7 | -0.76 | 1.274 | 53.4 | 0.789 | 2.837 | 85.7 | 183.7 | --- | 5.075 | -0.96 | 0.211 | 76.7 | 183.4 | -1.0 | 0.255 |
| 4-2280 | 4-3220 | 0.763 | 332.4 | -12.4 | -0.73 | 1.275 | 53.9 | 0.786 | 2.851 | 84.5 | 184.2 | --- | 5.093 | -0.96 | 0.214 | 75.0 | 183.6 | -1.0 | 0.255 |
| 4-2280 | 4-3240 | 0.754 | 333.0 | -12.2 | -0.70 | 1.276 | 54.5 | 0.784 | 2.865 | 83.3 | 184.7 | --- | 5.111 | -0.97 | 0.217 | 73.5 | 183.8 | -1.0 | 0.256 |
| 4-2280 | 4-3260 | 0.745 | 333.6 | -11.9 | -0.67 | 1.277 | 55.1 | 0.781 | 2.880 | 82.0 | 185.3 | --- | 5.131 | -0.98 | 0.220 | 72.1 | 184.0 | -1.0 | 0.256 |
| 4-2280 | 4-3280 | 0.736 | 334.2 | -11.7 | -0.64 | 1.277 | 55.6 | 0.779 | 2.896 | 80.8 | 185.8 | --- | 5.152 | -0.98 | 0.223 | 70.8 | 184.3 | -1.0 | 0.256 |
| 4-2280 | 4-3300 | 0.727 | 334.8 | -11.4 | -0.61 | 1.278 | 56.2 | 0.777 | 2.911 | 79.5 | 186.3 | --- | 5.173 | -0.99 | 0.226 | 69.5 | 184.7 | -1.1 | 0.257 |
| 4-2280 | 4-3320 | 0.717 | 335.5 | -11.1 | -0.58 | 1.279 | 56.8 | 0.775 | 2.928 | 78.3 | 186.8 | --- | 5.195 | -1.00 | 0.229 | 68.4 | 185.1 | -1.1 | 0.257 |
| 4-2280 | 4-3340 | 0.708 | 336.1 | -10.8 | -0.55 | 1.279 | 57.3 | 0.773 | 2.944 | 77.0 | 187.3 | --- | 5.218 | -1.01 | 0.232 | 67.3 | 185.6 | -1.1 | 0.258 |
| 4-2280 | 4-3360 | 0.699 | 336.8 | -10.6 | -0.51 | 1.280 | 57.9 | 0.770 | 2.961 | 75.8 | 187.7 | --- | 5.242 | -1.02 | 0.236 | 66.3 | 186.1 | -1.2 | 0.259 |
| 4-2280 | 4-3380 | 0.690 | 337.4 | -10.3 | -0.48 | 1.281 | 58.4 | 0.768 | 2.978 | 74.5 | 188.2 | --- | 5.266 | -1.04 | 0.238 | 65.4 | 186.7 | -1.2 | 0.259 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2280 | 4-3400 | 0.681 | 338.1 | -10.0 | -0.44 | 1.282 | 59.0 | 0.766 | 2.995 | 73.2 | 188.7 | --- | 5.291 | -1.05 | 0.241 | 64.5 | 187.3 | -1.3 | 0.260 |
| 4-2280 | 4-3420 | 0.672 | 338.8 | -9.6 | -0.41 | 1.283 | 59.6 | 0.765 | 3.013 | 72.0 | 189.1 | --- | 5.316 | -1.07 | 0.244 | 63.7 | 188.0 | -1.3 | 0.261 |
| 4-2280 | 4-3440 | 0.663 | 339.5 | -9.3 | -0.37 | 1.283 | 60.1 | 0.763 | 3.030 | 70.7 | 189.6 | --- | 5.342 | -1.08 | 0.247 | 62.9 | 188.7 | -1.4 | 0.262 |
| 4-2280 | 4-3460 | 0.654 | 340.2 | -9.0 | -0.33 | 1.284 | 60.7 | 0.761 | 3.048 | 69.4 | 190.0 | --- | 5.368 | -1.10 | 0.250 | 62.2 | 189.4 | -1.4 | 0.262 |
| 4-2280 | 4-3480 | 0.645 | 340.9 | -8.6 | -0.30 | 1.285 | 61.2 | 0.759 | 3.066 | 68.1 | 190.4 | --- | 5.394 | -1.12 | 0.253 | 61.5 | 190.2 | -1.5 | 0.263 |
| 4-2280 | 4-3500 | 0.636 | 341.6 | -8.3 | -0.25 | 1.285 | 61.8 | 0.758 | 3.084 | 66.8 | 190.8 | --- | 5.421 | -1.15 | 0.255 | 60.9 | 191.0 | -1.6 | 0.264 |
| 4-2280 | 4-3520 | 0.627 | 342.3 | -7.9 | -0.21 | 1.286 | 62.3 | 0.756 | 3.102 | 65.5 | 191.2 | --- | 5.448 | -1.17 | 0.258 | 60.3 | 191.8 | -1.6 | 0.265 |
| 4-2280 | 4-3540 | 0.618 | 343.0 | -7.5 | -0.17 | 1.287 | 62.9 | 0.755 | 3.121 | 64.2 | 191.6 | --- | 5.475 | -1.20 | 0.261 | 59.7 | 192.6 | -1.7 | 0.266 |
| 4-2280 | 4-3560 | 0.610 | 343.8 | -7.2 | -0.12 | 1.288 | 63.5 | 0.753 | 3.139 | 62.9 | 192.0 | --- | 5.503 | -1.22 | 0.263 | 59.2 | 193.5 | -1.8 | 0.266 |
| 4-2280 | 4-3580 | 0.601 | 344.5 | -6.8 | -0.08 | 1.288 | 64.0 | 0.752 | 3.157 | 61.7 | 192.4 | --- | 5.531 | -1.25 | 0.266 | 58.7 | 194.4 | -1.8 | 0.267 |
| 4-2280 | 4-3600 | 0.592 | 345.3 | -6.3 | -0.03 | 1.289 | 64.6 | 0.750 | 3.176 | 60.4 | 192.8 | --- | 5.559 | -1.29 | 0.268 | 58.2 | 195.3 | -1.9 | 0.268 |
| 4-2280 | 4-3620 | 0.584 | 346.1 | -5.9 | 0.03 | 1.290 | 65.1 | 0.749 | 3.194 | 59.1 | 193.2 | --- | 5.587 | -1.32 | 0.270 | 57.7 | 196.3 | -2.0 | 0.269 |
| 4-2280 | 4-3640 | 0.575 | 346.9 | -5.5 | 0.08 | 1.291 | 65.7 | 0.748 | 3.213 | 57.8 | 193.6 | --- | 5.615 | -1.36 | 0.273 | 57.3 | 197.3 | -2.1 | 0.269 |
| 4-2280 | 4-3660 | 0.566 | 347.7 | -5.0 | 0.14 | 1.291 | 66.2 | 0.747 | 3.231 | 56.5 | 193.9 | --- | 5.644 | -1.41 | 0.275 | 56.8 | 198.3 | -2.2 | 0.270 |
| 4-2280 | 4-3680 | 0.558 | 348.5 | -4.5 | 0.20 | 1.292 | 66.8 | 0.746 | 3.250 | 55.2 | 194.3 | --- | 5.673 | -1.45 | 0.277 | 56.4 | 199.3 | -2.3 | 0.271 |
| 4-2280 | 4-3700 | 0.549 | 349.3 | -4.0 | 0.27 | 1.293 | 67.3 | 0.745 | 3.268 | 53.8 | 194.7 | --- | 5.701 | -1.50 | 0.279 | 56.0 | 200.3 | -2.3 | 0.272 |
| 4-2280 | 4-3720 | 0.541 | 350.1 | -3.4 | 0.34 | 1.293 | 67.9 | 0.744 | 3.287 | 52.5 | 195.0 | --- | 5.730 | -1.56 | 0.282 | 55.7 | 201.4 | -2.4 | 0.273 |
| 4-2280 | 4-3740 | 0.533 | 350.9 | -2.9 | 0.42 | 1.294 | 68.4 | 0.743 | 3.305 | 51.2 | 195.3 | --- | 5.759 | -1.62 | 0.284 | 55.3 | 202.4 | -2.6 | 0.273 |
| 4-2280 | 4-3760 | 0.525 | 351.8 | -2.3 | 0.50 | 1.295 | 69.0 | 0.742 | 3.323 | 49.9 | 195.7 | --- | 5.789 | -1.69 | 0.286 | 55.0 | 203.5 | -2.7 | 0.274 |
| 4-2280 | 4-3780 | 0.516 | 352.7 | -1.7 | 0.59 | 1.295 | 69.5 | 0.741 | 3.342 | 48.6 | 196.0 | --- | 5.818 | -1.76 | 0.288 | 54.6 | 204.6 | -2.8 | 0.275 |
| 4-2280 | 4-3800 | 0.508 | 353.5 | -1.0 | 0.69 | 1.296 | 70.1 | 0.740 | 3.360 | 47.3 | 196.3 | --- | 5.847 | -1.85 | 0.290 | 54.3 | 205.7 | -2.9 | 0.275 |
| 4-2280 | 4-3820 | 0.500 | 354.4 | -0.3 | 0.79 | 1.296 | 70.6 | 0.739 | 3.379 | 46.0 | 196.7 | --- | 5.877 | -1.94 | 0.291 | 54.0 | 206.8 | -3.0 | 0.276 |
| 4-2280 | 4-3840 | 0.493 | 355.3 | 0.4 | 0.91 | 1.297 | 71.2 | 0.739 | 3.397 | 44.7 | 197.0 | --- | 5.906 | -2.04 | 0.293 | 53.7 | 207.9 | -3.2 | 0.277 |
| 4-2280 | 4-3860 | 0.485 | 356.2 | 1.2 | 1.04 | 1.298 | 71.7 | 0.738 | 3.415 | 43.4 | 197.3 | --- | 5.936 | -2.16 | 0.295 | 53.4 | 209.1 | -3.3 | 0.278 |
| 4-2280 | 4-3880 | 0.477 | 357.1 | 2.1 | 1.19 | 1.298 | 72.3 | 0.738 | 3.433 | 42.1 | 197.6 | --- | 5.966 | -2.29 | 0.297 | 53.1 | 210.2 | -3.5 | 0.278 |
| 4-2290 | 4-2610 | 1.244 | 324.4 | -15.5 | -2.29 | 1.367 | 29.6 | 0.974 | 8.892 | 123.8 | 158.6 | --- | --- | -1.90 | 0.540 | 165.2 | 203.1 | -1.6 | 0.615 |
| 4-2290 | 4-2630 | 1.218 | 324.4 | -15.4 | -2.18 | 1.349 | 30.3 | 0.961 | 6.170 | 123.6 | 160.3 | --- | --- | -1.82 | 0.492 | 163.6 | 202.3 | -1.6 | 0.571 |
| 4-2290 | 4-2650 | 1.195 | 324.5 | -15.4 | -2.09 | 1.334 | 31.1 | 0.950 | 4.947 | 123.3 | 161.8 | --- | --- | -1.75 | 0.449 | 161.8 | 201.5 | -1.6 | 0.533 |
| 4-2290 | 4-2670 | 1.175 | 324.6 | -15.3 | -2.00 | 1.321 | 31.8 | 0.940 | 4.260 | 122.9 | 163.2 | --- | --- | -1.68 | 0.411 | 159.8 | 200.7 | -1.6 | 0.500 |
| 4-2290 | 4-2690 | 1.156 | 324.8 | -15.3 | -1.92 | 1.311 | 32.5 | 0.932 | 3.827 | 122.4 | 164.5 | --- | --- | -1.62 | 0.378 | 157.6 | 199.7 | -1.5 | 0.470 |
| 4-2290 | 4-2710 | 1.138 | 325.0 | -15.2 | -1.85 | 1.303 | 33.2 | 0.924 | 3.533 | 121.8 | 165.7 | --- | --- | -1.56 | 0.348 | 155.3 | 198.8 | -1.5 | 0.444 |
| 4-2290 | 4-2730 | 1.122 | 325.3 | -15.1 | -1.78 | 1.296 | 33.9 | 0.916 | 3.324 | 121.1 | 166.9 | --- | --- | -1.51 | 0.321 | 152.7 | 197.8 | -1.5 | 0.421 |
| 4-2290 | 4-2750 | 1.107 | 325.6 | -15.0 | -1.71 | 1.291 | 34.6 | 0.910 | 3.170 | 120.3 | 168.0 | --- | --- | -1.47 | 0.297 | 149.8 | 196.7 | -1.4 | 0.401 |
| 4-2290 | 4-2770 | 1.093 | 325.9 | -14.8 | -1.65 | 1.286 | 35.2 | 0.904 | 3.054 | 119.5 | 169.0 | --- | --- | -1.43 | 0.276 | 146.8 | 195.6 | -1.4 | 0.383 |
| 4-2290 | 4-2790 | 1.080 | 326.3 | -14.7 | -1.59 | 1.282 | 35.9 | 0.898 | 2.965 | 118.6 | 169.9 | --- | --- | -1.39 | 0.257 | 143.5 | 194.6 | -1.4 | 0.367 |
| 4-2290 | 4-2810 | 1.066 | 326.7 | -14.6 | -1.54 | 1.279 | 36.5 | 0.892 | 2.897 | 117.7 | 170.8 | --- | --- | -1.36 | 0.241 | 140.0 | 193.5 | -1.3 | 0.353 |
| 4-2290 | 4-2830 | 1.054 | 327.0 | -14.4 | -1.49 | 1.276 | 37.2 | 0.887 | 2.844 | 116.8 | 171.7 | --- | --- | -1.33 | 0.227 | 136.3 | 192.4 | -1.3 | 0.341 |
| 4-2290 | 4-2850 | 1.042 | 327.5 | -14.3 | -1.44 | 1.274 | 37.8 | 0.882 | 2.804 | 115.8 | 172.6 | --- | --- | -1.30 | 0.215 | 132.3 | 191.4 | -1.2 | 0.330 |
| 4-2290 | 4-2870 | 1.030 | 327.9 | -14.1 | -1.39 | 1.273 | 38.5 | 0.877 | 2.772 | 114.8 | 173.4 | --- | --- | -1.27 | 0.205 | 128.3 | 190.3 | -1.2 | 0.321 |
| 4-2290 | 4-2890 | 1.018 | 328.3 | -13.9 | -1.34 | 1.272 | 39.1 | 0.873 | 2.749 | 113.7 | 174.1 | --- | --- | -1.25 | 0.197 | 124.1 | 189.4 | -1.2 | 0.313 |
| 4-2290 | 4-2910 | 1.007 | 328.8 | -13.8 | -1.30 | 1.271 | 39.7 | 0.868 | 2.731 | 112.6 | 174.9 | --- | --- | -1.23 | 0.190 | 119.8 | 188.4 | -1.1 | 0.306 |
| 4-2290 | 4-2930 | 0.996 | 329.2 | -13.6 | -1.25 | 1.270 | 40.4 | 0.864 | 2.719 | 111.5 | 175.6 | --- | --- | -1.21 | 0.185 | 115.5 | 187.5 | -1.1 | 0.299 |
| 4-2290 | 4-2950 | 0.985 | 329.7 | -13.4 | -1.21 | 1.270 | 41.0 | 0.860 | 2.711 | 110.4 | 176.3 | --- | --- | -1.19 | 0.181 | 111.3 | 186.7 | -1.0 | 0.294 |
| 4-2290 | 4-2970 | 0.974 | 330.2 | -13.2 | -1.17 | 1.269 | 41.6 | 0.856 | 2.707 | 109.3 | 177.0 | --- | --- | -1.17 | 0.179 | 107.2 | 186.0 | -1.0 | 0.290 |
| 4-2290 | 4-2990 | 0.964 | 330.7 | -13.0 | -1.13 | 1.269 | 42.2 | 0.852 | 2.705 | 108.1 | 177.6 | --- | --- | -1.16 | 0.177 | 103.3 | 185.3 | -1.0 | 0.286 |
| 4-2290 | 4-3010 | 0.953 | 331.2 | -12.9 | -1.09 | 1.269 | 42.8 | 0.848 | 2.707 | 107.0 | 178.3 | --- | --- | -1.15 | 0.177 | 99.5 | 184.7 | -1.0 | 0.282 |
| 4-2290 | 4-3030 | 0.943 | 331.7 | -12.7 | -1.05 | 1.270 | 43.5 | 0.844 | 2.710 | 105.8 | 178.9 | --- | --- | -1.14 | 0.177 | 95.9 | 184.2 | -0.9 | 0.280 |
| 4-2290 | 4-3050 | 0.932 | 332.2 | -12.5 | -1.02 | 1.270 | 44.1 | 0.841 | 2.716 | 104.6 | 179.5 | --- | --- | -1.13 | 0.179 | 92.5 | 183.8 | -0.9 | 0.277 |
| 4-2290 | 4-3070 | 0.922 | 332.8 | -12.2 | -0.98 | 1.270 | 44.7 | 0.837 | 2.723 | 103.4 | 180.1 | --- | 5.003 | -1.12 | 0.180 | 89.4 | 183.4 | -0.9 | 0.276 |
| 4-2290 | 4-3090 | 0.912 | 333.3 | -12.0 | -0.95 | 1.271 | 45.3 | 0.834 | 2.732 | 102.2 | 180.7 | --- | 5.010 | -1.11 | 0.182 | 86.5 | 183.2 | -0.9 | 0.274 |
| 4-2290 | 4-3110 | 0.902 | 333.8 | -11.8 | -0.91 | 1.271 | 45.9 | 0.831 | 2.742 | 101.0 | 181.3 | --- | 5.019 | -1.10 | 0.185 | 83.8 | 183.0 | -0.9 | 0.273 |
| 4-2290 | 4-3130 | 0.892 | 334.4 | -11.6 | -0.88 | 1.272 | 46.5 | 0.827 | 2.753 | 99.8 | 181.8 | --- | 5.030 | -1.10 | 0.188 | 81.3 | 182.8 | -0.9 | 0.272 |
| 4-2290 | 4-3150 | 0.881 | 334.9 | -11.4 | -0.84 | 1.273 | 47.1 | 0.824 | 2.765 | 98.5 | 182.4 | --- | 5.043 | -1.09 | 0.191 | 79.1 | 182.8 | -0.9 | 0.271 |
| 4-2290 | 4-3170 | 0.871 | 335.5 | -11.1 | -0.81 | 1.273 | 47.7 | 0.821 | 2.777 | 97.3 | 182.9 | --- | 5.058 | -1.09 | 0.194 | 77.0 | 182.8 | -0.9 | 0.271 |
| 4-2290 | 4-3190 | 0.862 | 336.0 | -10.9 | -0.77 | 1.274 | 48.3 | 0.818 | 2.791 | 96.0 | 183.4 | --- | 5.075 | -1.09 | 0.198 | 75.0 | 182.9 | -0.9 | 0.270 |
| 4-2290 | 4-3210 | 0.852 | 336.6 | -10.7 | -0.74 | 1.275 | 48.9 | 0.815 | 2.806 | 94.8 | 183.9 | --- | 5.093 | -1.09 | 0.201 | 73.3 | 183.1 | -0.9 | 0.270 |
| 4-2290 | 4-3230 | 0.842 | 337.1 | -10.4 | -0.71 | 1.275 | 49.5 | 0.812 | 2.820 | 93.5 | 184.5 | --- | 5.112 | -1.09 | 0.205 | 71.6 | 183.3 | -1.0 | 0.270 |
| 4-2290 | 4-3250 | 0.832 | 337.7 | -10.2 | -0.67 | 1.276 | 50.1 | 0.809 | 2.836 | 92.2 | 184.9 | --- | 5.132 | -1.09 | 0.208 | 70.2 | 183.6 | -1.0 | 0.270 |
| 4-2290 | 4-3270 | 0.822 | 338.3 | -9.9 | -0.64 | 1.277 | 50.7 | 0.807 | 2.852 | 91.0 | 185.4 | --- | 5.153 | -1.09 | 0.212 | 68.8 | 183.9 | -1.0 | 0.270 |
| 4-2290 | 4-3290 | 0.812 | 338.9 | -9.7 | -0.61 | 1.278 | 51.3 | 0.804 | 2.868 | 89.7 | 185.9 | --- | 5.175 | -1.09 | 0.215 | 67.5 | 184.3 | -1.0 | 0.271 |
| 4-2290 | 4-3310 | 0.802 | 339.5 | -9.4 | -0.57 | 1.278 | 51.9 | 0.801 | 2.885 | 88.4 | 186.4 | --- | 5.197 | -1.10 | 0.219 | 66.3 | 184.8 | -1.1 | 0.271 |
| 4-2290 | 4-3330 | 0.793 | 340.1 | -9.2 | -0.54 | 1.279 | 52.5 | 0.799 | 2.902 | 87.1 | 186.8 | --- | 5.221 | -1.10 | 0.222 | 65.3 | 185.3 | -1.1 | 0.271 |
| 4-2290 | 4-3350 | 0.783 | 340.7 | -8.9 | -0.50 | 1.280 | 53.1 | 0.796 | 2.919 | 85.9 | 187.3 | --- | 5.245 | -1.11 | 0.226 | 64.3 | 185.8 | -1.1 | 0.272 |
| 4-2290 | 4-3370 | 0.773 | 341.3 | -8.6 | -0.47 | 1.281 | 53.7 | 0.794 | 2.937 | 84.6 | 187.8 | --- | 5.269 | -1.12 | 0.229 | 63.3 | 186.4 | -1.2 | 0.272 |
| 4-2290 | 4-3390 | 0.764 | 341.9 | -8.3 | -0.43 | 1.282 | 54.3 | 0.792 | 2.955 | 83.3 | 188.2 | --- | 5.294 | -1.12 | 0.232 | 62.5 | 187.0 | -1.2 | 0.272 |
| 4-2290 | 4-3410 | 0.754 | 342.5 | -8.0 | -0.40 | 1.282 | 54.8 | 0.789 | 2.973 | 82.0 | 188.6 | --- | 5.320 | -1.13 | 0.236 | 61.7 | 187.7 | -1.3 | 0.273 |
| 4-2290 | 4-3430 | 0.745 | 343.1 | -7.7 | -0.36 | 1.283 | 55.4 | 0.787 | 2.991 | 80.7 | 189.1 | --- | 5.346 | -1.14 | 0.239 | 60.9 | 188.4 | -1.3 | 0.273 |
| 4-2290 | 4-3450 | 0.735 | 343.8 | -7.4 | -0.33 | 1.284 | 56.0 | 0.785 | 3.010 | 79.4 | 189.5 | --- | 5.372 | -1.16 | 0.242 | 60.2 | 189.1 | -1.4 | 0.274 |
| 4-2290 | 4-3470 | 0.726 | 344.4 | -7.1 | -0.29 | 1.285 | 56.6 | 0.783 | 3.028 | 78.1 | 189.9 | --- | 5.399 | -1.17 | 0.245 | 59.6 | 189.9 | -1.4 | 0.275 |
| 4-2290 | 4-3490 | 0.716 | 345.0 | -6.8 | -0.25 | 1.286 | 57.2 | 0.781 | 3.047 | 76.8 | 190.3 | --- | 5.426 | -1.18 | 0.248 | 58.9 | 190.7 | -1.5 | 0.275 |
| 4-2290 | 4-3510 | 0.707 | 345.7 | -6.5 | -0.21 | 1.286 | 57.8 | 0.779 | 3.066 | 75.5 | 190.7 | --- | 5.453 | -1.20 | 0.251 | 58.4 | 191.5 | -1.5 | 0.276 |
| 4-2290 | 4-3530 | 0.697 | 346.3 | -6.1 | -0.17 | 1.287 | 58.3 | 0.777 | 3.084 | 74.2 | 191.1 | --- | 5.480 | -1.22 | 0.254 | 57.8 | 192.4 | -1.6 | 0.276 |
| 4-2290 | 4-3550 | 0.688 | 347.0 | -5.8 | -0.13 | 1.288 | 58.9 | 0.775 | 3.103 | 72.9 | 191.5 | --- | 5.508 | -1.24 | 0.257 | 57.3 | 193.3 | -1.7 | 0.277 |
| 4-2290 | 4-3570 | 0.679 | 347.7 | -5.4 | -0.09 | 1.289 | 59.5 | 0.773 | 3.122 | 71.6 | 191.9 | --- | 5.536 | -1.26 | 0.259 | 56.8 | 194.2 | -1.7 | 0.277 |
| 4-2290 | 4-3590 | 0.669 | 348.4 | -5.1 | -0.05 | 1.289 | 60.1 | 0.771 | 3.141 | 70.3 | 192.3 | --- | 5.564 | -1.28 | 0.262 | 56.4 | 195.1 | -1.8 | 0.278 |
| 4-2290 | 4-3610 | 0.660 | 349.1 | -4.7 | -0.00 | 1.290 | 60.6 | 0.770 | 3.160 | 69.0 | 192.6 | --- | 5.593 | -1.31 | 0.265 | 56.0 | 196.1 | -1.9 | 0.278 |
| 4-2290 | 4-3630 | 0.651 | 349.7 | -4.3 | 0.05 | 1.291 | 61.2 | 0.768 | 3.179 | 67.7 | 193.0 | --- | 5.621 | -1.33 | 0.267 | 55.5 | 197.1 | -2.0 | 0.279 |
| 4-2290 | 4-3650 | 0.642 | 350.5 | -3.9 | 0.09 | 1.292 | 61.8 | 0.766 | 3.199 | 66.4 | 193.4 | --- | 5.650 | -1.36 | 0.270 | 55.2 | 198.1 | -2.0 | 0.280 |
| 4-2290 | 4-3670 | 0.633 | 351.2 | -3.5 | 0.15 | 1.292 | 62.3 | 0.765 | 3.218 | 65.0 | 193.7 | --- | 5.678 | -1.39 | 0.272 | 54.8 | 199.1 | -2.1 | 0.280 |
| 4-2290 | 4-3690 | 0.624 | 351.9 | -3.1 | 0.20 | 1.293 | 62.9 | 0.763 | 3.237 | 63.7 | 194.1 | --- | 5.707 | -1.43 | 0.275 | 54.4 | 200.1 | -2.2 | 0.281 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2290 | 4-3710 | 0.615 | 352.6 | -2.7 | 0.25 | 1.294 | 63.5 | 0.762 | 3.256 | 62.4 | 194.4 | --- | 5.736 | -1.46 | 0.277 | 54.1 | 201.1 | -2.3 | 0.281 |
| 4-2290 | 4-3730 | 0.606 | 353.4 | -2.2 | 0.31 | 1.294 | 64.0 | 0.761 | 3.275 | 61.1 | 194.8 | --- | 5.765 | -1.50 | 0.279 | 53.8 | 202.2 | -2.4 | 0.282 |
| 4-2290 | 4-3750 | 0.597 | 354.1 | -1.8 | 0.37 | 1.295 | 64.6 | 0.759 | 3.294 | 59.8 | 195.1 | --- | 5.794 | -1.54 | 0.281 | 53.5 | 203.3 | -2.5 | 0.282 |
| 4-2290 | 4-3770 | 0.588 | 354.9 | -1.3 | 0.44 | 1.296 | 65.2 | 0.758 | 3.313 | 58.5 | 195.4 | --- | 5.824 | -1.59 | 0.283 | 53.2 | 204.4 | -2.5 | 0.283 |
| 4-2290 | 4-3790 | 0.579 | 355.6 | -0.8 | 0.51 | 1.296 | 65.7 | 0.757 | 3.332 | 57.2 | 195.8 | --- | 5.853 | -1.64 | 0.286 | 52.9 | 205.5 | -2.6 | 0.283 |
| 4-2290 | 4-3810 | 0.571 | 356.4 | -0.2 | 0.58 | 1.297 | 66.3 | 0.756 | 3.351 | 55.9 | 196.1 | --- | 5.882 | -1.70 | 0.288 | 52.6 | 206.6 | -2.7 | 0.284 |
| 4-2290 | 4-3830 | 0.562 | 357.2 | 0.3 | 0.66 | 1.298 | 66.8 | 0.755 | 3.369 | 54.6 | 196.4 | --- | 5.912 | -1.76 | 0.290 | 52.3 | 207.7 | -2.8 | 0.284 |
| 4-2290 | 4-3850 | 0.553 | 358.0 | 0.9 | 0.74 | 1.298 | 67.4 | 0.753 | 3.388 | 53.3 | 196.7 | --- | 5.941 | -1.82 | 0.292 | 52.1 | 208.8 | -3.0 | 0.285 |
| 4-2290 | 4-3870 | 0.545 | 358.8 | 1.5 | 0.83 | 1.299 | 68.0 | 0.752 | 3.407 | 52.0 | 197.0 | --- | 5.971 | -1.90 | 0.293 | 51.8 | 210.0 | -3.1 | 0.285 |
| 4-2290 | 4-3890 | 0.537 | 359.6 | 2.1 | 0.93 | 1.300 | 68.5 | 0.752 | 3.426 | 50.6 | 197.3 | --- | 6.000 | -1.98 | 0.295 | 51.6 | 211.2 | -3.2 | 0.286 |
| 4-2300 | 4-2620 | 1.363 | 328.1 | -14.1 | -2.97 | 1.361 | 22.2 | 0.982 | 7.508 | 138.3 | 164.4 | --- | --- | -2.72 | 0.520 | 168.4 | 200.8 | -1.5 | 0.622 |
| 4-2300 | 4-2640 | 1.334 | 328.3 | -14.0 | -2.78 | 1.343 | 23.2 | 0.974 | 5.520 | 137.6 | 165.5 | --- | --- | -2.55 | 0.472 | 166.8 | 200.0 | -1.5 | 0.579 |
| 4-2300 | 4-2660 | 1.309 | 328.5 | -13.9 | -2.62 | 1.329 | 24.1 | 0.967 | 4.550 | 136.7 | 166.4 | --- | --- | -2.41 | 0.429 | 165.1 | 199.1 | -1.5 | 0.542 |
| 4-2300 | 4-2680 | 1.286 | 328.8 | -13.8 | -2.47 | 1.317 | 25.0 | 0.960 | 3.983 | 135.8 | 167.4 | --- | --- | -2.28 | 0.391 | 163.2 | 198.2 | -1.5 | 0.509 |
| 4-2300 | 4-2700 | 1.265 | 329.1 | -13.7 | -2.34 | 1.307 | 25.9 | 0.953 | 3.616 | 134.9 | 168.3 | --- | --- | -2.17 | 0.357 | 161.0 | 197.2 | -1.4 | 0.481 |
| 4-2300 | 4-2720 | 1.245 | 329.5 | -13.5 | -2.22 | 1.299 | 26.7 | 0.947 | 3.364 | 133.9 | 169.1 | --- | --- | -2.07 | 0.326 | 158.7 | 196.3 | -1.4 | 0.455 |
| 4-2300 | 4-2740 | 1.227 | 329.8 | -13.4 | -2.11 | 1.293 | 27.5 | 0.941 | 3.183 | 132.9 | 169.9 | --- | --- | -1.98 | 0.299 | 156.1 | 195.2 | -1.4 | 0.433 |
| 4-2300 | 4-2760 | 1.211 | 330.2 | -13.2 | -2.01 | 1.288 | 28.3 | 0.936 | 3.049 | 131.8 | 170.7 | --- | --- | -1.90 | 0.275 | 153.2 | 194.2 | -1.3 | 0.413 |
| 4-2300 | 4-2780 | 1.195 | 330.6 | -13.1 | -1.92 | 1.283 | 29.1 | 0.931 | 2.948 | 130.8 | 171.5 | --- | --- | -1.83 | 0.254 | 150.0 | 193.2 | -1.3 | 0.396 |
| 4-2300 | 4-2800 | 1.180 | 331.0 | -12.9 | -1.83 | 1.280 | 29.9 | 0.925 | 2.871 | 129.7 | 172.2 | --- | --- | -1.76 | 0.235 | 146.5 | 192.1 | -1.2 | 0.381 |
| 4-2300 | 4-2820 | 1.165 | 331.5 | -12.7 | -1.75 | 1.277 | 30.6 | 0.920 | 2.812 | 128.5 | 172.9 | --- | --- | -1.71 | 0.218 | 142.7 | 191.1 | -1.2 | 0.368 |
| 4-2300 | 4-2840 | 1.151 | 331.9 | -12.6 | -1.68 | 1.275 | 31.4 | 0.916 | 2.767 | 127.4 | 173.6 | --- | --- | -1.65 | 0.204 | 138.7 | 190.1 | -1.2 | 0.356 |
| 4-2300 | 4-2860 | 1.138 | 332.4 | -12.4 | -1.60 | 1.273 | 32.1 | 0.911 | 2.732 | 126.2 | 174.2 | --- | --- | -1.60 | 0.192 | 134.3 | 189.1 | -1.1 | 0.346 |
| 4-2300 | 4-2880 | 1.125 | 332.8 | -12.2 | -1.54 | 1.271 | 32.9 | 0.906 | 2.706 | 125.1 | 174.9 | --- | --- | -1.56 | 0.182 | 129.7 | 188.2 | -1.1 | 0.337 |
| 4-2300 | 4-2900 | 1.112 | 333.3 | -12.0 | -1.47 | 1.270 | 33.6 | 0.902 | 2.687 | 123.9 | 175.5 | --- | --- | -1.52 | 0.174 | 125.0 | 187.3 | -1.1 | 0.329 |
| 4-2300 | 4-2920 | 1.100 | 333.8 | -11.8 | -1.41 | 1.270 | 34.3 | 0.898 | 2.673 | 122.7 | 176.1 | --- | --- | -1.48 | 0.167 | 120.1 | 186.5 | -1.0 | 0.322 |
| 4-2300 | 4-2940 | 1.087 | 334.3 | -11.6 | -1.36 | 1.269 | 35.0 | 0.893 | 2.664 | 121.5 | 176.7 | --- | --- | -1.45 | 0.163 | 115.2 | 185.8 | -1.0 | 0.316 |
| 4-2300 | 4-2960 | 1.075 | 334.8 | -11.4 | -1.30 | 1.269 | 35.7 | 0.889 | 2.659 | 120.2 | 177.3 | --- | --- | -1.42 | 0.160 | 110.4 | 185.1 | -1.0 | 0.311 |
| 4-2300 | 4-2980 | 1.064 | 335.3 | -11.2 | -1.25 | 1.269 | 36.4 | 0.885 | 2.658 | 119.0 | 177.9 | --- | --- | -1.39 | 0.158 | 105.7 | 184.5 | -0.9 | 0.307 |
| 4-2300 | 4-3000 | 1.052 | 335.8 | -11.0 | -1.20 | 1.269 | 37.1 | 0.881 | 2.659 | 117.8 | 178.5 | --- | --- | -1.37 | 0.157 | 101.2 | 183.9 | -0.9 | 0.303 |
| 4-2300 | 4-3020 | 1.041 | 336.3 | -10.8 | -1.15 | 1.269 | 37.8 | 0.877 | 2.662 | 116.5 | 179.0 | --- | --- | -1.34 | 0.158 | 97.0 | 183.5 | -0.9 | 0.300 |
| 4-2300 | 4-3040 | 1.029 | 336.8 | -10.6 | -1.10 | 1.269 | 38.5 | 0.874 | 2.667 | 115.2 | 179.6 | --- | --- | -1.32 | 0.159 | 93.0 | 183.1 | -0.9 | 0.297 |
| 4-2300 | 4-3060 | 1.018 | 337.4 | -10.4 | -1.06 | 1.270 | 39.1 | 0.870 | 2.675 | 114.0 | 180.1 | --- | 5.001 | -1.30 | 0.161 | 89.3 | 182.8 | -0.9 | 0.295 |
| 4-2300 | 4-3080 | 1.007 | 337.9 | -10.2 | -1.01 | 1.270 | 39.8 | 0.866 | 2.683 | 112.7 | 180.6 | --- | 5.008 | -1.29 | 0.164 | 86.0 | 182.6 | -0.9 | 0.293 |
| 4-2300 | 4-3100 | 0.996 | 338.4 | -9.9 | -0.97 | 1.271 | 40.5 | 0.863 | 2.693 | 111.4 | 181.1 | --- | 5.017 | -1.27 | 0.167 | 82.9 | 182.4 | -0.9 | 0.291 |
| 4-2300 | 4-3120 | 0.985 | 338.9 | -9.7 | -0.93 | 1.271 | 41.1 | 0.859 | 2.705 | 110.2 | 181.7 | --- | 5.028 | -1.26 | 0.170 | 80.0 | 182.3 | -0.9 | 0.290 |
| 4-2300 | 4-3140 | 0.975 | 339.5 | -9.5 | -0.89 | 1.272 | 41.8 | 0.856 | 2.717 | 108.9 | 182.2 | --- | 5.042 | -1.25 | 0.174 | 77.5 | 182.3 | -0.9 | 0.289 |
| 4-2300 | 4-3160 | 0.964 | 340.0 | -9.2 | -0.85 | 1.273 | 42.4 | 0.852 | 2.730 | 107.6 | 182.6 | --- | 5.057 | -1.23 | 0.178 | 75.2 | 182.4 | -0.9 | 0.288 |
| 4-2300 | 4-3180 | 0.953 | 340.5 | -9.0 | -0.81 | 1.273 | 43.1 | 0.849 | 2.744 | 106.3 | 183.1 | --- | 5.074 | -1.22 | 0.182 | 73.1 | 182.5 | -0.9 | 0.287 |
| 4-2300 | 4-3200 | 0.943 | 341.1 | -8.8 | -0.77 | 1.274 | 43.7 | 0.846 | 2.759 | 105.0 | 183.6 | --- | 5.092 | -1.22 | 0.186 | 71.1 | 182.7 | -0.9 | 0.287 |
| 4-2300 | 4-3220 | 0.932 | 341.6 | -8.5 | -0.73 | 1.275 | 44.4 | 0.842 | 2.774 | 103.7 | 184.1 | --- | 5.111 | -1.21 | 0.190 | 69.4 | 183.0 | -0.9 | 0.286 |
| 4-2300 | 4-3240 | 0.922 | 342.2 | -8.3 | -0.70 | 1.276 | 45.0 | 0.839 | 2.790 | 102.4 | 184.6 | --- | 5.132 | -1.20 | 0.194 | 67.8 | 183.3 | -0.9 | 0.286 |
| 4-2300 | 4-3260 | 0.911 | 342.7 | -8.0 | -0.66 | 1.277 | 45.6 | 0.836 | 2.807 | 101.1 | 185.0 | --- | 5.153 | -1.20 | 0.198 | 66.4 | 183.6 | -1.0 | 0.286 |
| 4-2300 | 4-3280 | 0.901 | 343.3 | -7.8 | -0.62 | 1.277 | 46.3 | 0.833 | 2.823 | 99.8 | 185.5 | --- | 5.176 | -1.20 | 0.203 | 65.1 | 184.1 | -1.0 | 0.286 |
| 4-2300 | 4-3300 | 0.891 | 343.9 | -7.5 | -0.58 | 1.278 | 46.9 | 0.830 | 2.841 | 98.5 | 185.9 | --- | 5.199 | -1.19 | 0.207 | 63.9 | 184.5 | -1.0 | 0.286 |
| 4-2300 | 4-3320 | 0.880 | 344.4 | -7.3 | -0.55 | 1.279 | 47.5 | 0.827 | 2.858 | 97.2 | 186.4 | --- | 5.223 | -1.19 | 0.211 | 62.8 | 185.0 | -1.1 | 0.286 |
| 4-2300 | 4-3340 | 0.870 | 345.0 | -7.0 | -0.51 | 1.280 | 48.1 | 0.824 | 2.876 | 95.9 | 186.8 | --- | 5.247 | -1.19 | 0.215 | 61.8 | 185.6 | -1.1 | 0.286 |
| 4-2300 | 4-3360 | 0.860 | 345.6 | -6.8 | -0.48 | 1.281 | 48.8 | 0.822 | 2.894 | 94.6 | 187.2 | --- | 5.272 | -1.19 | 0.218 | 60.8 | 186.2 | -1.1 | 0.286 |
| 4-2300 | 4-3380 | 0.850 | 346.1 | -6.5 | -0.44 | 1.282 | 49.4 | 0.819 | 2.913 | 93.3 | 187.6 | --- | 5.298 | -1.20 | 0.222 | 60.0 | 186.8 | -1.2 | 0.287 |
| 4-2300 | 4-3400 | 0.839 | 346.7 | -6.2 | -0.40 | 1.282 | 50.0 | 0.816 | 2.931 | 92.0 | 188.1 | --- | 5.323 | -1.20 | 0.226 | 59.2 | 187.5 | -1.2 | 0.287 |
| 4-2300 | 4-3420 | 0.829 | 347.3 | -5.9 | -0.37 | 1.283 | 50.6 | 0.813 | 2.950 | 90.7 | 188.5 | --- | 5.350 | -1.20 | 0.229 | 58.5 | 188.2 | -1.3 | 0.287 |
| 4-2300 | 4-3440 | 0.819 | 347.9 | -5.6 | -0.33 | 1.284 | 51.2 | 0.811 | 2.969 | 89.3 | 188.9 | --- | 5.377 | -1.21 | 0.233 | 57.8 | 189.0 | -1.3 | 0.287 |
| 4-2300 | 4-3460 | 0.809 | 348.5 | -5.4 | -0.29 | 1.285 | 51.8 | 0.808 | 2.988 | 88.0 | 189.3 | --- | 5.404 | -1.22 | 0.236 | 57.2 | 189.8 | -1.4 | 0.288 |
| 4-2300 | 4-3480 | 0.799 | 349.1 | -5.1 | -0.26 | 1.286 | 52.4 | 0.806 | 3.007 | 86.7 | 189.7 | --- | 5.431 | -1.22 | 0.240 | 56.6 | 190.6 | -1.4 | 0.288 |
| 4-2300 | 4-3500 | 0.789 | 349.7 | -4.8 | -0.22 | 1.287 | 53.0 | 0.804 | 3.026 | 85.4 | 190.1 | --- | 5.459 | -1.23 | 0.243 | 56.1 | 191.4 | -1.5 | 0.288 |
| 4-2300 | 4-3520 | 0.780 | 350.3 | -4.5 | -0.18 | 1.287 | 53.6 | 0.801 | 3.046 | 84.1 | 190.5 | --- | 5.486 | -1.24 | 0.246 | 55.6 | 192.3 | -1.5 | 0.289 |
| 4-2300 | 4-3540 | 0.770 | 350.9 | -4.1 | -0.14 | 1.288 | 54.2 | 0.799 | 3.065 | 82.8 | 190.8 | --- | 5.514 | -1.25 | 0.249 | 55.1 | 193.2 | -1.6 | 0.289 |
| 4-2300 | 4-3560 | 0.760 | 351.5 | -3.8 | -0.10 | 1.289 | 54.8 | 0.797 | 3.085 | 81.5 | 191.2 | --- | 5.543 | -1.27 | 0.252 | 54.6 | 194.1 | -1.6 | 0.289 |
| 4-2300 | 4-3580 | 0.750 | 352.1 | -3.5 | -0.06 | 1.290 | 55.4 | 0.795 | 3.104 | 80.1 | 191.6 | --- | 5.571 | -1.28 | 0.255 | 54.2 | 195.0 | -1.7 | 0.290 |
| 4-2300 | 4-3600 | 0.740 | 352.7 | -3.2 | -0.02 | 1.291 | 56.0 | 0.793 | 3.124 | 78.8 | 192.0 | --- | 5.600 | -1.30 | 0.258 | 53.8 | 196.0 | -1.8 | 0.290 |
| 4-2300 | 4-3620 | 0.731 | 353.4 | -2.8 | 0.02 | 1.291 | 56.6 | 0.790 | 3.143 | 77.5 | 192.3 | --- | 5.628 | -1.31 | 0.261 | 53.5 | 196.9 | -1.8 | 0.290 |
| 4-2300 | 4-3640 | 0.721 | 354.0 | -2.5 | 0.06 | 1.292 | 57.2 | 0.788 | 3.163 | 76.2 | 192.7 | --- | 5.657 | -1.33 | 0.264 | 53.1 | 197.9 | -1.9 | 0.291 |
| 4-2300 | 4-3660 | 0.712 | 354.7 | -2.1 | 0.11 | 1.293 | 57.8 | 0.787 | 3.183 | 74.9 | 193.0 | --- | 5.686 | -1.35 | 0.266 | 52.8 | 198.9 | -2.0 | 0.291 |
| 4-2300 | 4-3680 | 0.702 | 355.3 | -1.8 | 0.15 | 1.294 | 58.4 | 0.785 | 3.202 | 73.6 | 193.4 | --- | 5.715 | -1.37 | 0.269 | 52.5 | 200.0 | -2.1 | 0.291 |
| 4-2300 | 4-3700 | 0.692 | 356.0 | -1.4 | 0.20 | 1.294 | 58.9 | 0.783 | 3.222 | 72.3 | 193.7 | --- | 5.744 | -1.40 | 0.271 | 52.2 | 201.0 | -2.1 | 0.292 |
| 4-2300 | 4-3720 | 0.683 | 356.6 | -1.0 | 0.25 | 1.295 | 59.5 | 0.781 | 3.241 | 70.9 | 194.1 | --- | 5.773 | -1.42 | 0.274 | 51.9 | 202.1 | -2.2 | 0.292 |
| 4-2300 | 4-3740 | 0.674 | 357.3 | -0.6 | 0.30 | 1.296 | 60.1 | 0.779 | 3.261 | 69.6 | 194.4 | --- | 5.802 | -1.45 | 0.276 | 51.6 | 203.1 | -2.3 | 0.292 |
| 4-2300 | 4-3760 | 0.664 | 358.0 | -0.2 | 0.35 | 1.297 | 60.7 | 0.778 | 3.281 | 68.3 | 194.7 | --- | 5.832 | -1.48 | 0.279 | 51.4 | 204.2 | -2.4 | 0.292 |
| 4-2300 | 4-3780 | 0.655 | 358.7 | 0.2 | 0.40 | 1.297 | 61.3 | 0.776 | 3.300 | 67.0 | 195.1 | --- | 5.861 | -1.51 | 0.281 | 51.2 | 205.3 | -2.4 | 0.293 |
| 4-2300 | 4-3800 | 0.646 | 359.3 | 0.6 | 0.46 | 1.298 | 61.8 | 0.775 | 3.319 | 65.7 | 195.4 | --- | 5.890 | -1.55 | 0.283 | 50.9 | 206.4 | -2.5 | 0.293 |
| 4-2300 | 4-3820 | 0.636 | 0.0 | 1.0 | 0.52 | 1.299 | 62.4 | 0.773 | 3.339 | 64.4 | 195.7 | --- | 5.920 | -1.59 | 0.285 | 50.7 | 207.6 | -2.6 | 0.293 |
| 4-2300 | 4-3840 | 0.627 | 0.8 | 1.5 | 0.58 | 1.299 | 63.0 | 0.772 | 3.358 | 63.1 | 196.0 | --- | 5.949 | -1.63 | 0.287 | 50.5 | 208.7 | -2.7 | 0.294 |
| 4-2300 | 4-3860 | 0.618 | 1.5 | 2.0 | 0.64 | 1.300 | 63.6 | 0.770 | 3.378 | 61.8 | 196.4 | --- | 5.979 | -1.67 | 0.289 | 50.3 | 209.8 | -2.8 | 0.294 |
| 4-2300 | 4-3880 | 0.609 | 2.2 | 2.4 | 0.71 | 1.301 | 64.1 | 0.769 | 3.397 | 60.5 | 196.7 | --- | 6.008 | -1.72 | 0.292 | 50.1 | 211.0 | -2.9 | 0.294 |
| 4-2300 | 4-3900 | 0.600 | 2.9 | 3.0 | 0.79 | 1.301 | 64.7 | 0.768 | 3.416 | 59.2 | 197.0 | --- | 6.038 | -1.78 | 0.293 | 49.9 | 212.1 | -3.0 | 0.294 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2500 | 4-2900 | 0.858 | 356.6 | 1.8 | 2.25 | 1.410 | 126.0 | 0.989 | 60.356 | 287.5 | 498.4 | 0.651 | --- | -2.54 | 0.621 | 158.4 | 239.3 | -3.6 | 0.613 |
| 4-2500 | 4-2920 | 0.828 | 356.4 | 1.6 | 2.10 | 1.392 | 125.0 | 0.956 | 14.884 | 288.0 | 500.8 | 0.661 | --- | -2.41 | 0.579 | 156.7 | 239.3 | -3.6 | 0.571 |
| 4-2500 | 4-2940 | 0.802 | 356.2 | 1.4 | 1.97 | 1.376 | 124.2 | 0.926 | 9.112 | 288.5 | 503.1 | 0.671 | --- | -2.30 | 0.540 | 155.0 | 239.3 | -3.6 | 0.532 |
| 4-2500 | 4-2960 | 0.780 | 356.0 | 1.2 | 1.85 | 1.363 | 123.4 | 0.901 | 6.863 | 289.0 | 505.3 | 0.679 | --- | -2.20 | 0.506 | 153.2 | 239.2 | -3.6 | 0.497 |
| 4-2500 | 4-2980 | 0.760 | 355.8 | 1.0 | 1.73 | 1.352 | 122.7 | 0.879 | 5.675 | 289.3 | 507.5 | 0.686 | --- | -2.11 | 0.474 | 151.3 | 239.0 | -3.7 | 0.466 |
| 4-2500 | 4-3000 | 0.744 | 355.7 | 0.9 | 1.63 | 1.342 | 122.1 | 0.860 | 4.947 | 289.7 | 509.6 | 0.692 | --- | -2.03 | 0.446 | 149.3 | 238.6 | -3.7 | 0.437 |
| 4-2500 | 4-3020 | 0.729 | 355.6 | 0.7 | 1.53 | 1.334 | 121.6 | 0.844 | 4.458 | 289.9 | 511.7 | 0.697 | --- | -1.96 | 0.420 | 147.3 | 238.2 | -3.7 | 0.411 |
| 4-2500 | 4-3040 | 0.717 | 355.6 | 0.6 | 1.44 | 1.327 | 121.2 | 0.829 | 4.111 | 290.1 | 513.7 | 0.701 | --- | -1.89 | 0.396 | 145.1 | 237.6 | -3.7 | 0.388 |
| 4-2500 | 4-3060 | 0.707 | 355.6 | 0.5 | 1.36 | 1.321 | 120.9 | 0.817 | 3.854 | 290.2 | 515.6 | 0.704 | --- | -1.83 | 0.375 | 142.9 | 236.9 | -3.7 | 0.366 |
| 4-2500 | 4-3080 | 0.699 | 355.6 | 0.4 | 1.28 | 1.315 | 120.6 | 0.807 | 3.657 | 290.3 | 517.4 | 0.707 | --- | -1.78 | 0.355 | 140.5 | 236.1 | -3.7 | 0.347 |
| 4-2500 | 4-3100 | 0.692 | 355.6 | 0.3 | 1.21 | 1.311 | 120.4 | 0.798 | 3.504 | 290.3 | 519.2 | 0.709 | --- | -1.73 | 0.337 | 138.1 | 235.2 | -3.7 | 0.330 |
| 4-2500 | 4-3120 | 0.687 | 355.7 | 0.2 | 1.14 | 1.307 | 120.2 | 0.790 | 3.382 | 290.2 | 520.9 | 0.710 | --- | -1.68 | 0.321 | 135.6 | 234.1 | -3.7 | 0.314 |
| 4-2500 | 4-3140 | 0.683 | 355.8 | 0.1 | 1.07 | 1.304 | 120.1 | 0.784 | 3.284 | 290.0 | 522.6 | 0.710 | --- | -1.64 | 0.306 | 133.0 | 233.0 | -3.7 | 0.301 |
| 4-2500 | 4-3160 | 0.680 | 356.0 | 0.1 | 1.01 | 1.301 | 120.1 | 0.779 | 3.205 | 289.8 | 524.1 | 0.709 | --- | -1.61 | 0.293 | 130.3 | 231.7 | -3.7 | 0.288 |
| 4-2500 | 4-3180 | 0.679 | 356.2 | 0.1 | 0.95 | 1.298 | 120.1 | 0.774 | 3.140 | 289.6 | 525.6 | 0.708 | --- | -1.57 | 0.281 | 127.5 | 230.4 | -3.6 | 0.278 |
| 4-2500 | 4-3200 | 0.678 | 356.4 | 0.0 | 0.89 | 1.296 | 120.1 | 0.771 | 3.086 | 289.2 | 527.1 | 0.707 | --- | -1.54 | 0.270 | 124.7 | 229.0 | -3.6 | 0.268 |
| 4-2500 | 4-3220 | 0.678 | 356.6 | 0.0 | 0.84 | 1.294 | 120.2 | 0.768 | 3.042 | 288.9 | 528.5 | 0.705 | --- | -1.51 | 0.261 | 121.8 | 227.6 | -3.6 | 0.260 |
| 4-2500 | 4-3240 | 0.679 | 356.9 | 0.1 | 0.79 | 1.293 | 120.3 | 0.766 | 3.006 | 288.4 | 529.8 | 0.702 | --- | -1.48 | 0.252 | 118.9 | 226.1 | -3.5 | 0.253 |
| 4-2500 | 4-3260 | 0.681 | 357.2 | 0.1 | 0.73 | 1.291 | 120.5 | 0.765 | 2.976 | 287.9 | 531.1 | 0.699 | --- | -1.46 | 0.244 | 115.9 | 224.6 | -3.5 | 0.246 |
| 4-2500 | 4-3280 | 0.684 | 357.5 | 0.1 | 0.68 | 1.290 | 120.7 | 0.765 | 2.952 | 287.4 | 532.3 | 0.695 | --- | -1.44 | 0.238 | 113.0 | 223.1 | -3.4 | 0.243 |
| 4-2500 | 4-3300 | 0.688 | 357.9 | 0.2 | 0.64 | 1.289 | 120.9 | 0.764 | 2.933 | 286.8 | 533.4 | 0.691 | --- | -1.42 | 0.232 | 109.9 | 221.6 | -3.3 | 0.240 |
| 4-2500 | 4-3320 | 0.692 | 358.2 | 0.3 | 0.59 | 1.289 | 121.2 | 0.765 | 2.917 | 286.2 | 534.6 | 0.686 | --- | -1.40 | 0.227 | 106.9 | 220.2 | -3.3 | 0.237 |
| 4-2500 | 4-3340 | 0.697 | 358.6 | 0.3 | 0.54 | 1.288 | 121.5 | 0.766 | 2.905 | 285.5 | 535.6 | 0.681 | --- | -1.39 | 0.222 | 103.9 | 218.9 | -3.2 | 0.235 |
| 4-2500 | 4-3360 | 0.702 | 359.0 | 0.4 | 0.50 | 1.288 | 121.8 | 0.767 | 2.895 | 284.7 | 536.6 | 0.675 | --- | -1.37 | 0.219 | 101.0 | 217.7 | -3.1 | 0.234 |
| 4-2500 | 4-3380 | 0.708 | 359.4 | 0.5 | 0.46 | 1.287 | 122.2 | 0.768 | 2.889 | 284.0 | 537.6 | 0.669 | --- | -1.36 | 0.216 | 98.0 | 216.5 | -3.1 | 0.234 |
| 4-2500 | 4-3400 | 0.714 | 359.9 | 0.6 | 0.41 | 1.287 | 122.6 | 0.770 | 2.884 | 283.1 | 538.5 | 0.663 | --- | -1.35 | 0.213 | 95.1 | 215.5 | -3.0 | 0.234 |
| 4-2500 | 4-3420 | 0.721 | 0.3 | 0.7 | 0.37 | 1.287 | 123.0 | 0.772 | 2.882 | 282.3 | 539.3 | 0.656 | --- | -1.34 | 0.211 | 92.2 | 214.5 | -2.9 | 0.235 |
| 4-2500 | 4-3440 | 0.729 | 0.8 | 0.9 | 0.33 | 1.287 | 123.4 | 0.775 | 2.881 | 281.4 | 540.2 | 0.648 | 5.114 | -1.33 | 0.210 | 89.4 | 213.7 | -2.9 | 0.237 |
| 4-2500 | 4-3460 | 0.736 | 1.3 | 1.0 | 0.29 | 1.287 | 123.8 | 0.778 | 2.882 | 280.5 | 540.9 | 0.641 | 5.123 | -1.32 | 0.209 | 86.7 | 213.0 | -2.8 | 0.239 |
| 4-2500 | 4-3480 | 0.745 | 1.8 | 1.2 | 0.25 | 1.287 | 124.3 | 0.781 | 2.884 | 279.5 | 541.7 | 0.633 | 5.136 | -1.32 | 0.208 | 84.0 | 212.5 | -2.8 | 0.241 |
| 4-2500 | 4-3500 | 0.753 | 2.3 | 1.3 | 0.21 | 1.287 | 124.8 | 0.784 | 2.888 | 278.5 | 542.4 | 0.624 | 5.151 | -1.31 | 0.208 | 81.4 | 212.0 | -2.7 | 0.244 |
| 4-2500 | 4-3520 | 0.763 | 2.8 | 1.5 | 0.17 | 1.288 | 125.3 | 0.787 | 2.892 | 277.4 | 543.0 | 0.615 | 5.169 | -1.31 | 0.208 | 78.9 | 211.7 | -2.7 | 0.247 |
| 4-2500 | 4-3540 | 0.772 | 3.3 | 1.6 | 0.13 | 1.288 | 125.9 | 0.791 | 2.898 | 276.4 | 543.7 | 0.606 | 5.189 | -1.30 | 0.208 | 76.5 | 211.5 | -2.7 | 0.250 |
| 4-2500 | 4-3560 | 0.782 | 3.9 | 1.8 | 0.10 | 1.288 | 126.4 | 0.795 | 2.904 | 275.3 | 544.3 | 0.597 | 5.212 | -1.30 | 0.209 | 74.1 | 211.4 | -2.6 | 0.254 |
| 4-2500 | 4-3580 | 0.792 | 4.4 | 2.0 | 0.06 | 1.289 | 127.0 | 0.798 | 2.911 | 274.1 | 544.8 | 0.587 | 5.236 | -1.30 | 0.209 | 71.8 | 211.4 | -2.6 | 0.257 |
| 4-2500 | 4-3600 | 0.803 | 5.0 | 2.2 | 0.02 | 1.289 | 127.6 | 0.802 | 2.919 | 273.0 | 545.3 | 0.577 | 5.262 | -1.30 | 0.210 | 69.6 | 211.5 | -2.6 | 0.261 |
| 4-2500 | 4-3620 | 0.814 | 5.5 | 2.4 | -0.02 | 1.289 | 128.2 | 0.807 | 2.928 | 271.8 | 545.8 | 0.566 | 5.290 | -1.31 | 0.211 | 67.5 | 211.7 | -2.6 | 0.265 |
| 4-2500 | 4-3640 | 0.825 | 6.1 | 2.6 | -0.06 | 1.290 | 128.8 | 0.811 | 2.938 | 270.6 | 546.3 | 0.556 | 5.319 | -1.31 | 0.213 | 65.4 | 212.0 | -2.6 | 0.269 |
| 4-2500 | 4-3660 | 0.837 | 6.7 | 2.8 | -0.10 | 1.290 | 129.5 | 0.815 | 2.947 | 269.3 | 546.7 | 0.545 | 5.350 | -1.31 | 0.214 | 63.4 | 212.4 | -2.6 | 0.274 |
| 4-2500 | 4-3680 | 0.848 | 7.2 | 3.0 | -0.13 | 1.291 | 130.1 | 0.820 | 2.958 | 268.1 | 547.1 | 0.533 | 5.382 | -1.32 | 0.216 | 61.4 | 212.8 | -2.6 | 0.278 |
| 4-2500 | 4-3700 | 0.861 | 7.8 | 3.2 | -0.17 | 1.291 | 130.8 | 0.824 | 2.969 | 266.8 | 547.5 | 0.522 | 5.416 | -1.33 | 0.217 | 59.6 | 213.4 | -2.6 | 0.283 |
| 4-2500 | 4-3720 | 0.873 | 8.4 | 3.4 | -0.21 | 1.292 | 131.5 | 0.829 | 2.980 | 265.5 | 547.8 | 0.510 | 5.450 | -1.33 | 0.219 | 57.7 | 214.0 | -2.6 | 0.287 |
| 4-2500 | 4-3740 | 0.886 | 9.0 | 3.6 | -0.25 | 1.292 | 132.2 | 0.834 | 2.992 | 264.1 | 548.1 | 0.498 | 5.486 | -1.34 | 0.221 | 56.0 | 214.7 | -2.6 | 0.292 |
| 4-2500 | 4-3760 | 0.899 | 9.6 | 3.8 | -0.29 | 1.293 | 132.9 | 0.838 | 3.004 | 262.8 | 548.4 | 0.486 | 5.522 | -1.35 | 0.223 | 54.3 | 215.4 | -2.6 | 0.296 |
| 4-2500 | 4-3780 | 0.912 | 10.2 | 4.0 | -0.33 | 1.293 | 133.7 | 0.843 | 3.016 | 261.4 | 548.7 | 0.473 | 5.559 | -1.37 | 0.225 | 52.6 | 216.2 | -2.6 | 0.301 |
| 4-2500 | 4-3800 | 0.925 | 10.8 | 4.3 | -0.37 | 1.294 | 134.4 | 0.848 | 3.029 | 260.0 | 548.9 | 0.460 | 5.598 | -1.38 | 0.226 | 51.0 | 217.0 | -2.6 | 0.306 |
| 4-2500 | 4-3820 | 0.939 | 11.5 | 4.5 | -0.42 | 1.294 | 135.2 | 0.853 | 3.042 | 258.6 | 549.1 | 0.448 | 5.637 | -1.39 | 0.228 | 49.4 | 217.9 | -2.7 | 0.311 |
| 4-2500 | 4-3840 | 0.953 | 12.1 | 4.7 | -0.46 | 1.295 | 136.0 | 0.858 | 3.055 | 257.1 | 549.3 | 0.435 | 5.676 | -1.41 | 0.230 | 47.9 | 218.9 | -2.7 | 0.316 |
| 4-2500 | 4-3860 | 0.967 | 12.7 | 4.9 | -0.50 | 1.295 | 136.7 | 0.863 | 3.069 | 255.7 | 549.5 | 0.421 | 5.717 | -1.42 | 0.232 | 46.4 | 219.8 | -2.7 | 0.320 |
| 4-2500 | 4-3880 | 0.981 | 13.3 | 5.2 | -0.55 | 1.296 | 137.6 | 0.868 | 3.083 | 254.2 | 549.6 | 0.408 | 5.758 | -1.44 | 0.234 | 44.9 | 220.9 | -2.7 | 0.325 |
| 4-2500 | 4-3900 | 0.996 | 14.0 | 5.4 | -0.59 | 1.296 | 138.4 | 0.873 | 3.097 | 252.7 | 549.7 | 0.395 | 5.799 | -1.46 | 0.237 | 43.5 | 221.9 | -2.8 | 0.330 |
| 4-2500 | 4-3920 | 1.011 | 14.6 | 5.7 | -0.64 | 1.297 | 139.2 | 0.878 | 3.111 | 251.2 | 549.8 | 0.381 | 5.841 | -1.49 | 0.239 | 42.1 | 223.0 | -2.8 | 0.335 |
| 4-2500 | 4-3940 | 1.025 | 15.2 | 5.9 | -0.69 | 1.298 | 140.1 | 0.882 | 3.126 | 249.6 | 549.9 | 0.367 | 5.884 | -1.51 | 0.241 | 40.7 | 224.2 | -2.8 | 0.340 |
| 4-2600 | 4-3960 | 1.041 | 15.9 | 6.1 | -0.74 | 1.298 | 140.9 | 0.887 | 3.140 | 248.1 | 549.9 | 0.354 | 5.927 | -1.53 | 0.243 | 39.4 | 225.4 | -2.9 | 0.345 |
| 4-2500 | 4-3980 | 1.056 | 16.5 | 6.4 | -0.79 | 1.299 | 141.8 | 0.892 | 3.155 | 246.5 | 550.0 | 0.340 | 5.970 | -1.56 | 0.245 | 38.1 | 226.6 | -2.9 | 0.350 |
| 4-2500 | 4-4000 | 1.071 | 17.2 | 6.6 | -0.84 | 1.299 | 142.7 | 0.897 | 3.170 | 244.9 | 550.0 | 0.326 | 6.014 | -1.59 | 0.247 | 36.8 | 227.8 | -2.9 | 0.355 |
| 4-2500 | 4-4020 | 1.087 | 17.8 | 6.9 | -0.90 | 1.300 | 143.6 | 0.902 | 3.185 | 243.3 | 550.0 | 0.312 | 6.058 | -1.62 | 0.249 | 35.6 | 229.1 | -3.0 | 0.360 |
| 4-2500 | 4-4040 | 1.103 | 18.5 | 7.1 | -0.95 | 1.301 | 144.5 | 0.907 | 3.200 | 241.7 | 549.9 | 0.299 | 6.102 | -1.66 | 0.251 | 34.3 | 230.4 | -3.0 | 0.364 |
| 4-2500 | 4-4060 | 1.119 | 19.1 | 7.4 | -1.01 | 1.301 | 145.4 | 0.911 | 3.216 | 240.1 | 549.9 | 0.285 | 6.147 | -1.70 | 0.253 | 33.1 | 231.7 | -3.0 | 0.369 |
| 4-2500 | 4-4080 | 1.135 | 19.8 | 7.6 | -1.08 | 1.302 | 146.3 | 0.916 | 3.231 | 238.4 | 549.8 | 0.271 | 6.191 | -1.74 | 0.255 | 31.9 | 233.0 | -3.1 | 0.374 |
| 4-2500 | 4-4100 | 1.151 | 20.4 | 7.9 | -1.14 | 1.302 | 147.2 | 0.921 | 3.247 | 236.8 | 549.7 | 0.257 | 6.236 | -1.78 | 0.258 | 30.7 | 234.4 | -3.1 | 0.379 |
| 4-2510 | 4-2910 | 0.805 | 1.3 | 5.5 | 3.07 | 1.411 | 122.8 | 0.994 | 26.774 | 294.2 | 496.1 | 0.706 | --- | -3.47 | 0.628 | 157.7 | 241.1 | -4.0 | 0.613 |
| 4-2510 | 4-2930 | 0.775 | 1.0 | 5.1 | 2.79 | 1.393 | 121.8 | 0.958 | 17.007 | 294.8 | 498.6 | 0.717 | --- | -3.22 | 0.586 | 156.0 | 241.2 | -4.0 | 0.570 |
| 4-2510 | 4-2950 | 0.749 | 0.8 | 4.8 | 2.56 | 1.377 | 120.9 | 0.926 | 9.840 | 295.4 | 500.9 | 0.726 | --- | -3.00 | 0.548 | 154.3 | 241.3 | -4.0 | 0.532 |
| 4-2510 | 4-2970 | 0.726 | 0.6 | 4.4 | 2.35 | 1.364 | 120.2 | 0.899 | 7.255 | 295.9 | 503.3 | 0.734 | --- | -2.82 | 0.513 | 152.5 | 241.2 | -4.0 | 0.497 |
| 4-2510 | 4-2990 | 0.706 | 0.5 | 4.1 | 2.17 | 1.353 | 119.5 | 0.875 | 5.932 | 296.3 | 505.5 | 0.741 | --- | -2.66 | 0.482 | 150.6 | 241.0 | -4.0 | 0.465 |
| 4-2510 | 4-3010 | 0.689 | 0.3 | 3.9 | 2.01 | 1.343 | 118.9 | 0.855 | 5.135 | 296.7 | 507.7 | 0.747 | --- | -2.52 | 0.454 | 148.7 | 240.8 | -4.0 | 0.436 |
| 4-2510 | 4-3030 | 0.675 | 0.2 | 3.6 | 1.86 | 1.335 | 118.4 | 0.837 | 4.606 | 297.0 | 509.8 | 0.752 | --- | -2.39 | 0.428 | 146.7 | 240.4 | -4.0 | 0.410 |
| 4-2510 | 4-3050 | 0.663 | 0.2 | 3.4 | 1.73 | 1.327 | 117.9 | 0.821 | 4.232 | 297.3 | 511.9 | 0.757 | --- | -2.28 | 0.405 | 144.5 | 239.9 | -4.0 | 0.386 |
| 4-2510 | 4-3070 | 0.652 | 0.1 | 3.2 | 1.61 | 1.321 | 117.6 | 0.808 | 3.957 | 297.5 | 513.9 | 0.760 | --- | -2.19 | 0.383 | 142.3 | 239.3 | -4.0 | 0.365 |
| 4-2510 | 4-3090 | 0.643 | 0.1 | 3.0 | 1.50 | 1.316 | 117.3 | 0.796 | 3.748 | 297.6 | 515.8 | 0.763 | --- | -2.10 | 0.364 | 140.1 | 238.5 | -4.0 | 0.345 |
| 4-2510 | 4-3110 | 0.636 | 0.2 | 2.9 | 1.40 | 1.311 | 117.0 | 0.787 | 3.585 | 297.7 | 517.6 | 0.765 | --- | -2.02 | 0.346 | 137.7 | 237.7 | -4.0 | 0.328 |
| 4-2510 | 4-3130 | 0.630 | 0.3 | 2.7 | 1.30 | 1.307 | 116.9 | 0.778 | 3.455 | 297.6 | 519.4 | 0.766 | --- | -1.95 | 0.330 | 135.2 | 236.7 | -4.0 | 0.312 |
| 4-2510 | 4-3150 | 0.626 | 0.4 | 2.6 | 1.21 | 1.304 | 116.7 | 0.771 | 3.351 | 297.6 | 521.1 | 0.767 | --- | -1.88 | 0.316 | 132.7 | 235.6 | -4.0 | 0.298 |
| 4-2510 | 4-3170 | 0.623 | 0.5 | 2.5 | 1.13 | 1.301 | 116.7 | 0.765 | 3.267 | 297.4 | 522.7 | 0.767 | --- | -1.82 | 0.303 | 130.1 | 234.5 | -4.0 | 0.285 |
| 4-2510 | 4-3190 | 0.621 | 0.7 | 2.5 | 1.05 | 1.298 | 116.6 | 0.760 | 3.198 | 297.2 | 524.3 | 0.766 | --- | -1.77 | 0.291 | 127.5 | 233.2 | -3.9 | 0.274 |
| 4-2510 | 4-3210 | 0.619 | 0.9 | 2.4 | 0.98 | 1.296 | 116.7 | 0.756 | 3.141 | 297.0 | 525.8 | 0.765 | --- | -1.72 | 0.280 | 124.8 | 231.9 | -3.9 | 0.264 |
| 4-2510 | 4-3230 | 0.619 | 1.2 | 2.4 | 0.91 | 1.294 | 116.7 | 0.753 | 3.094 | 296.6 | 527.3 | 0.764 | --- | -1.68 | 0.271 | 122.0 | 230.5 | -3.9 | 0.256 |
| 4-2510 | 4-3250 | 0.620 | 1.4 | 2.3 | 0.85 | 1.293 | 116.8 | 0.751 | 3.056 | 296.3 | 528.6 | 0.762 | --- | -1.64 | 0.262 | 119.3 | 229.0 | -3.8 | 0.249 |
| 4-2510 | 4-3270 | 0.621 | 1.7 | 2.3 | 0.79 | 1.291 | 116.9 | 0.749 | 3.024 | 295.8 | 530.0 | 0.759 | --- | -1.60 | 0.254 | 116.4 | 227.5 | -3.8 | 0.242 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2510 | 4-3290 | 0.623 | 2.1 | 2.4 | 0.73 | 1.290 | 117.1 | 0.748 | 2.998 | 295.3 | 531.2 | 0.756 | --- | -1.57 | 0.248 | 113.6 | 226.1 | -3.7 | 0.237 |
| 4-2510 | 4-3310 | 0.626 | 2.4 | 2.4 | 0.67 | 1.289 | 117.3 | 0.747 | 2.976 | 294.8 | 532.4 | 0.752 | --- | -1.53 | 0.242 | 110.8 | 224.6 | -3.6 | 0.233 |
| 4-2510 | 4-3330 | 0.629 | 2.8 | 2.4 | 0.62 | 1.288 | 117.5 | 0.747 | 2.959 | 294.2 | 533.6 | 0.748 | --- | -1.51 | 0.237 | 107.9 | 223.2 | -3.6 | 0.230 |
| 4-2510 | 4-3350 | 0.633 | 3.2 | 2.5 | 0.56 | 1.288 | 117.8 | 0.747 | 2.946 | 293.6 | 534.7 | 0.744 | --- | -1.48 | 0.232 | 105.1 | 221.8 | -3.5 | 0.228 |
| 4-2510 | 4-3370 | 0.638 | 3.6 | 2.6 | 0.51 | 1.287 | 118.1 | 0.748 | 2.935 | 292.9 | 535.8 | 0.739 | --- | -1.46 | 0.229 | 102.3 | 220.5 | -3.4 | 0.226 |
| 4-2510 | 4-3390 | 0.643 | 4.0 | 2.6 | 0.46 | 1.287 | 118.4 | 0.749 | 2.927 | 292.2 | 536.8 | 0.734 | --- | -1.44 | 0.225 | 99.5 | 219.3 | -3.4 | 0.226 |
| 4-2510 | 4-3410 | 0.649 | 4.5 | 2.7 | 0.42 | 1.287 | 118.8 | 0.751 | 2.922 | 291.4 | 537.7 | 0.728 | --- | -1.42 | 0.223 | 96.8 | 218.2 | -3.3 | 0.225 |
| 4-2510 | 4-3430 | 0.655 | 5.0 | 2.8 | 0.37 | 1.287 | 119.1 | 0.752 | 2.918 | 290.6 | 538.7 | 0.722 | --- | -1.40 | 0.221 | 94.1 | 217.1 | -3.2 | 0.226 |
| 4-2510 | 4-3450 | 0.661 | 5.4 | 3.0 | 0.33 | 1.287 | 119.5 | 0.755 | 2.917 | 289.8 | 539.5 | 0.716 | --- | -1.38 | 0.219 | 91.5 | 216.2 | -3.2 | 0.227 |
| 4-2510 | 4-3470 | 0.668 | 5.9 | 3.1 | 0.28 | 1.287 | 119.9 | 0.757 | 2.917 | 288.9 | 540.4 | 0.709 | 5.124 | -1.37 | 0.218 | 88.9 | 215.5 | -3.1 | 0.228 |
| 4-2510 | 4-3490 | 0.676 | 6.5 | 3.2 | 0.24 | 1.287 | 120.3 | 0.759 | 2.918 | 288.0 | 541.2 | 0.702 | 5.134 | -1.35 | 0.217 | 86.4 | 214.8 | -3.0 | 0.230 |
| 4-2510 | 4-3510 | 0.684 | 7.0 | 3.4 | 0.20 | 1.287 | 120.8 | 0.762 | 2.921 | 287.0 | 541.9 | 0.695 | 5.147 | -1.34 | 0.217 | 83.9 | 214.3 | -3.0 | 0.232 |
| 4-2510 | 4-3530 | 0.692 | 7.5 | 3.5 | 0.16 | 1.287 | 121.3 | 0.765 | 2.925 | 286.0 | 542.6 | 0.687 | 5.163 | -1.33 | 0.216 | 81.6 | 213.8 | -2.9 | 0.235 |
| 4-2510 | 4-3550 | 0.701 | 8.1 | 3.7 | 0.12 | 1.287 | 121.8 | 0.768 | 2.930 | 285.0 | 543.3 | 0.679 | 5.181 | -1.32 | 0.216 | 79.3 | 213.5 | -2.9 | 0.238 |
| 4-2510 | 4-3570 | 0.710 | 8.6 | 3.8 | 0.08 | 1.287 | 122.3 | 0.772 | 2.936 | 284.0 | 543.9 | 0.670 | 5.201 | -1.32 | 0.217 | 77.0 | 213.3 | -2.8 | 0.241 |
| 4-2510 | 4-3590 | 0.719 | 9.2 | 4.0 | 0.04 | 1.288 | 122.8 | 0.775 | 2.942 | 282.9 | 544.6 | 0.661 | 5.224 | -1.31 | 0.217 | 74.8 | 213.2 | -2.8 | 0.244 |
| 4-2510 | 4-3610 | 0.729 | 9.8 | 4.2 | 0.00 | 1.288 | 123.3 | 0.779 | 2.950 | 281.8 | 545.1 | 0.652 | 5.248 | -1.31 | 0.218 | 72.7 | 213.3 | -2.8 | 0.248 |
| 4-2510 | 4-3630 | 0.739 | 10.3 | 4.4 | -0.04 | 1.288 | 123.9 | 0.783 | 2.958 | 280.7 | 545.7 | 0.643 | 5.273 | -1.30 | 0.219 | 70.7 | 213.4 | -2.8 | 0.251 |
| 4-2510 | 4-3650 | 0.749 | 10.9 | 4.6 | -0.08 | 1.289 | 124.5 | 0.787 | 2.967 | 279.5 | 546.2 | 0.633 | 5.301 | -1.30 | 0.220 | 68.7 | 213.6 | -2.7 | 0.255 |
| 4-2510 | 4-3670 | 0.760 | 11.5 | 4.8 | -0.11 | 1.289 | 125.1 | 0.791 | 2.976 | 278.3 | 546.7 | 0.623 | 5.330 | -1.30 | 0.221 | 66.8 | 213.9 | -2.7 | 0.259 |
| 4-2510 | 4-3690 | 0.770 | 12.1 | 5.0 | -0.15 | 1.290 | 125.7 | 0.795 | 2.986 | 277.1 | 547.1 | 0.613 | 5.360 | -1.30 | 0.222 | 65.0 | 214.2 | -2.7 | 0.263 |
| 4-2510 | 4-3710 | 0.782 | 12.7 | 5.2 | -0.19 | 1.290 | 126.3 | 0.799 | 2.997 | 275.9 | 547.6 | 0.602 | 5.391 | -1.30 | 0.224 | 63.2 | 214.7 | -2.7 | 0.267 |
| 4-2510 | 4-3730 | 0.793 | 13.3 | 5.4 | -0.23 | 1.291 | 126.9 | 0.803 | 3.007 | 274.6 | 548.0 | 0.591 | 5.424 | -1.30 | 0.225 | 61.4 | 215.2 | -2.7 | 0.271 |
| 4-2510 | 4-3750 | 0.805 | 13.9 | 5.6 | -0.26 | 1.291 | 127.6 | 0.808 | 3.019 | 273.4 | 548.3 | 0.580 | 5.457 | -1.30 | 0.227 | 59.8 | 215.8 | -2.7 | 0.276 |
| 4-2510 | 4-3770 | 0.817 | 14.5 | 5.8 | -0.30 | 1.292 | 128.3 | 0.812 | 3.030 | 272.1 | 548.7 | 0.568 | 5.492 | -1.31 | 0.228 | 58.1 | 216.4 | -2.7 | 0.280 |
| 4-2510 | 4-3790 | 0.829 | 15.2 | 6.0 | -0.34 | 1.292 | 129.0 | 0.817 | 3.042 | 270.7 | 549.0 | 0.557 | 5.528 | -1.31 | 0.230 | 56.5 | 217.2 | -2.7 | 0.284 |
| 4-2510 | 4-3810 | 0.841 | 15.8 | 6.2 | -0.38 | 1.293 | 129.7 | 0.822 | 3.054 | 269.4 | 549.3 | 0.545 | 5.564 | -1.32 | 0.232 | 55.0 | 217.9 | -2.8 | 0.289 |
| 4-2510 | 4-3830 | 0.854 | 16.4 | 6.5 | -0.42 | 1.293 | 130.4 | 0.826 | 3.067 | 268.0 | 549.6 | 0.533 | 5.601 | -1.32 | 0.234 | 53.5 | 218.7 | -2.8 | 0.293 |
| 4-2510 | 4-3850 | 0.867 | 17.0 | 6.7 | -0.45 | 1.294 | 131.1 | 0.831 | 3.080 | 266.7 | 549.8 | 0.520 | 5.639 | -1.33 | 0.235 | 52.0 | 219.6 | -2.8 | 0.298 |
| 4-2510 | 4-3870 | 0.880 | 17.7 | 6.9 | -0.49 | 1.294 | 131.8 | 0.836 | 3.093 | 265.3 | 550.0 | 0.508 | 5.678 | -1.34 | 0.237 | 50.6 | 220.5 | -2.8 | 0.302 |
| 4-2510 | 4-3890 | 0.894 | 18.3 | 7.1 | -0.53 | 1.295 | 132.6 | 0.841 | 3.106 | 263.8 | 550.2 | 0.495 | 5.718 | -1.35 | 0.239 | 49.2 | 221.5 | -2.8 | 0.307 |
| 4-2510 | 4-3910 | 0.907 | 19.0 | 7.4 | -0.57 | 1.295 | 133.3 | 0.846 | 3.120 | 262.4 | 550.4 | 0.482 | 5.758 | -1.36 | 0.241 | 47.8 | 222.5 | -2.9 | 0.311 |
| 4-2510 | 4-3930 | 0.921 | 19.6 | 7.6 | -0.61 | 1.296 | 134.1 | 0.850 | 3.134 | 261.0 | 550.6 | 0.469 | 5.799 | -1.38 | 0.243 | 46.4 | 223.5 | -2.9 | 0.316 |
| 4-2510 | 4-3950 | 0.935 | 20.2 | 7.8 | -0.65 | 1.296 | 134.9 | 0.855 | 3.148 | 259.5 | 550.7 | 0.455 | 5.840 | -1.39 | 0.245 | 45.1 | 224.6 | -2.9 | 0.321 |
| 4-2510 | 4-3970 | 0.949 | 20.9 | 8.1 | -0.70 | 1.297 | 135.7 | 0.860 | 3.162 | 258.0 | 550.8 | 0.442 | 5.882 | -1.41 | 0.247 | 43.9 | 225.7 | -2.9 | 0.325 |
| 4-2510 | 4-3990 | 0.964 | 21.5 | 8.3 | -0.74 | 1.297 | 136.5 | 0.865 | 3.176 | 256.5 | 550.9 | 0.428 | 5.924 | -1.42 | 0.249 | 42.6 | 226.9 | -3.0 | 0.330 |
| 4-2510 | 4-4010 | 0.978 | 22.2 | 8.5 | -0.78 | 1.298 | 137.3 | 0.870 | 3.191 | 255.0 | 551.0 | 0.415 | 5.966 | -1.44 | 0.251 | 41.4 | 228.1 | -3.0 | 0.335 |
| 4-2510 | 4-4030 | 0.993 | 22.8 | 8.8 | -0.83 | 1.298 | 138.2 | 0.875 | 3.205 | 253.5 | 551.0 | 0.401 | 6.009 | -1.46 | 0.253 | 40.2 | 229.3 | -3.0 | 0.339 |
| 4-2510 | 4-4050 | 1.008 | 23.5 | 9.0 | -0.87 | 1.299 | 139.0 | 0.880 | 3.220 | 251.9 | 551.1 | 0.387 | 6.053 | -1.48 | 0.255 | 39.0 | 230.5 | -3.1 | 0.344 |
| 4-2510 | 4-4070 | 1.023 | 24.2 | 9.3 | -0.92 | 1.300 | 139.9 | 0.885 | 3.235 | 250.3 | 551.1 | 0.373 | 6.097 | -1.51 | 0.257 | 37.8 | 231.8 | -3.1 | 0.349 |
| 4-2510 | 4-4090 | 1.038 | 24.8 | 9.5 | -0.97 | 1.300 | 140.7 | 0.890 | 3.250 | 248.8 | 551.1 | 0.359 | 6.141 | -1.53 | 0.258 | 36.6 | 233.0 | -3.1 | 0.353 |
| 4-2510 | 4-4110 | 1.054 | 25.5 | 9.7 | -1.02 | 1.301 | 141.6 | 0.894 | 3.265 | 247.2 | 551.1 | 0.345 | 6.185 | -1.56 | 0.260 | 35.5 | 234.3 | -3.2 | 0.358 |
| 4-2520 | 4-2920 | 0.754 | 4.8 | 11.0 | 5.03 | 1.411 | 119.5 | 0.999 | 58.853 | 301.0 | 494.0 | 0.760 | --- | -5.54 | 0.633 | 156.9 | 242.8 | -5.0 | 0.611 |
| 4-2520 | 4-2940 | 0.723 | 4.6 | 10.0 | 4.35 | 1.393 | 118.5 | 0.960 | 19.051 | 301.7 | 496.6 | 0.770 | --- | -4.88 | 0.591 | 155.3 | 243.0 | -4.8 | 0.569 |
| 4-2520 | 4-2960 | 0.696 | 4.5 | 9.2 | 3.81 | 1.377 | 117.6 | 0.926 | 10.483 | 302.3 | 499.0 | 0.779 | --- | -4.36 | 0.553 | 153.6 | 243.1 | -4.8 | 0.530 |
| 4-2520 | 4-2980 | 0.673 | 4.4 | 8.5 | 3.38 | 1.364 | 116.8 | 0.896 | 7.594 | 302.9 | 501.4 | 0.787 | --- | -3.95 | 0.519 | 151.8 | 243.0 | -4.7 | 0.495 |
| 4-2520 | 4-3000 | 0.653 | 4.2 | 8.0 | 3.02 | 1.353 | 116.2 | 0.871 | 6.153 | 303.4 | 503.7 | 0.794 | --- | -3.61 | 0.488 | 150.0 | 242.9 | -4.6 | 0.463 |
| 4-2520 | 4-3020 | 0.636 | 4.1 | 7.4 | 2.72 | 1.343 | 115.6 | 0.849 | 5.297 | 303.9 | 506.0 | 0.800 | --- | -3.33 | 0.460 | 148.0 | 242.7 | -4.6 | 0.434 |
| 4-2520 | 4-3040 | 0.621 | 4.0 | 7.0 | 2.46 | 1.335 | 115.0 | 0.830 | 4.733 | 304.3 | 508.2 | 0.805 | --- | -3.09 | 0.435 | 146.0 | 242.4 | -4.6 | 0.408 |
| 4-2520 | 4-3060 | 0.608 | 4.0 | 6.6 | 2.23 | 1.327 | 114.6 | 0.813 | 4.338 | 304.6 | 510.3 | 0.809 | --- | -2.89 | 0.412 | 143.9 | 241.9 | -4.5 | 0.385 |
| 4-2520 | 4-3080 | 0.598 | 4.0 | 6.2 | 2.04 | 1.321 | 114.2 | 0.799 | 4.048 | 304.9 | 512.3 | 0.813 | --- | -2.71 | 0.391 | 141.8 | 241.4 | -4.5 | 0.363 |
| 4-2520 | 4-3100 | 0.589 | 4.0 | 5.9 | 1.86 | 1.316 | 113.9 | 0.787 | 3.827 | 305.0 | 514.3 | 0.816 | --- | -2.56 | 0.371 | 139.5 | 240.7 | -4.5 | 0.343 |
| 4-2520 | 4-3120 | 0.581 | 4.0 | 5.6 | 1.71 | 1.311 | 113.7 | 0.776 | 3.656 | 305.1 | 516.2 | 0.818 | --- | -2.43 | 0.354 | 137.2 | 239.9 | -4.4 | 0.326 |
| 4-2520 | 4-3140 | 0.575 | 4.1 | 5.3 | 1.57 | 1.307 | 113.5 | 0.767 | 3.520 | 305.2 | 518.0 | 0.819 | --- | -2.31 | 0.338 | 134.9 | 239.0 | -4.4 | 0.310 |
| 4-2520 | 4-3160 | 0.570 | 4.2 | 5.1 | 1.44 | 1.304 | 113.4 | 0.760 | 3.411 | 305.2 | 519.8 | 0.820 | --- | -2.20 | 0.324 | 132.4 | 238.0 | -4.4 | 0.295 |
| 4-2520 | 4-3180 | 0.567 | 4.4 | 4.9 | 1.33 | 1.301 | 113.3 | 0.753 | 3.323 | 305.1 | 521.5 | 0.821 | --- | -2.11 | 0.311 | 129.9 | 236.9 | -4.4 | 0.282 |
| 4-2520 | 4-3200 | 0.564 | 4.6 | 4.8 | 1.22 | 1.298 | 113.2 | 0.748 | 3.250 | 304.9 | 523.1 | 0.820 | --- | -2.03 | 0.299 | 127.3 | 235.7 | -4.3 | 0.271 |
| 4-2520 | 4-3220 | 0.562 | 4.8 | 4.7 | 1.13 | 1.296 | 113.2 | 0.743 | 3.191 | 304.7 | 524.7 | 0.820 | --- | -1.95 | 0.288 | 124.7 | 234.4 | -4.3 | 0.261 |
| 4-2520 | 4-3240 | 0.562 | 5.1 | 4.6 | 1.04 | 1.294 | 113.3 | 0.739 | 3.142 | 304.5 | 526.2 | 0.819 | --- | -1.88 | 0.279 | 122.1 | 233.0 | -4.2 | 0.252 |
| 4-2520 | 4-3260 | 0.562 | 5.3 | 4.5 | 0.95 | 1.292 | 113.3 | 0.737 | 3.101 | 304.1 | 527.6 | 0.817 | --- | -1.82 | 0.271 | 119.4 | 231.6 | -4.2 | 0.244 |
| 4-2520 | 4-3280 | 0.563 | 5.7 | 4.5 | 0.87 | 1.291 | 113.5 | 0.734 | 3.067 | 303.7 | 529.0 | 0.815 | --- | -1.76 | 0.263 | 116.7 | 230.2 | -4.1 | 0.238 |
| 4-2520 | 4-3300 | 0.564 | 6.0 | 4.4 | 0.80 | 1.290 | 113.6 | 0.733 | 3.040 | 303.3 | 530.3 | 0.812 | --- | -1.71 | 0.256 | 114.0 | 228.7 | -4.0 | 0.232 |
| 4-2520 | 4-3320 | 0.566 | 6.4 | 4.4 | 0.73 | 1.289 | 113.8 | 0.732 | 3.017 | 302.8 | 531.5 | 0.810 | --- | -1.67 | 0.251 | 111.3 | 227.3 | -4.0 | 0.228 |
| 4-2520 | 4-3340 | 0.569 | 6.8 | 4.4 | 0.66 | 1.288 | 114.0 | 0.731 | 2.999 | 302.3 | 532.7 | 0.806 | --- | -1.62 | 0.245 | 108.6 | 225.8 | -3.9 | 0.224 |
| 4-2520 | 4-3360 | 0.573 | 7.2 | 4.5 | 0.60 | 1.287 | 114.2 | 0.731 | 2.984 | 301.7 | 533.9 | 0.803 | --- | -1.58 | 0.241 | 105.9 | 224.4 | -3.8 | 0.221 |
| 4-2520 | 4-3380 | 0.577 | 7.7 | 4.5 | 0.54 | 1.287 | 114.5 | 0.731 | 2.972 | 301.0 | 535.0 | 0.798 | --- | -1.55 | 0.237 | 103.3 | 223.1 | -3.7 | 0.219 |
| 4-2520 | 4-3400 | 0.581 | 8.1 | 4.6 | 0.49 | 1.286 | 114.8 | 0.732 | 2.964 | 300.4 | 536.0 | 0.794 | --- | -1.52 | 0.234 | 100.7 | 221.8 | -3.6 | 0.218 |
| 4-2520 | 4-3420 | 0.586 | 8.6 | 4.6 | 0.43 | 1.286 | 115.1 | 0.733 | 2.957 | 299.6 | 537.0 | 0.789 | --- | -1.49 | 0.231 | 98.1 | 220.7 | -3.6 | 0.218 |
| 4-2520 | 4-3440 | 0.591 | 9.1 | 4.7 | 0.38 | 1.286 | 115.4 | 0.734 | 2.953 | 298.9 | 538.0 | 0.784 | --- | -1.46 | 0.229 | 95.5 | 219.6 | -3.5 | 0.218 |
| 4-2520 | 4-3460 | 0.597 | 9.6 | 4.8 | 0.33 | 1.286 | 115.7 | 0.736 | 2.951 | 298.1 | 538.9 | 0.779 | --- | -1.43 | 0.227 | 93.0 | 218.6 | -3.4 | 0.218 |
| 4-2520 | 4-3480 | 0.604 | 10.2 | 5.0 | 0.28 | 1.286 | 116.1 | 0.738 | 2.950 | 297.3 | 539.8 | 0.773 | --- | -1.41 | 0.226 | 90.6 | 217.8 | -3.3 | 0.219 |
| 4-2520 | 4-3500 | 0.610 | 10.7 | 5.1 | 0.23 | 1.286 | 116.5 | 0.740 | 2.951 | 296.4 | 540.6 | 0.767 | 5.136 | -1.39 | 0.225 | 88.2 | 217.0 | -3.3 | 0.221 |
| 4-2520 | 4-3520 | 0.617 | 11.3 | 5.2 | 0.19 | 1.286 | 116.9 | 0.743 | 2.953 | 295.5 | 541.4 | 0.760 | 5.146 | -1.37 | 0.224 | 85.9 | 216.4 | -3.2 | 0.222 |
| 4-2520 | 4-3540 | 0.625 | 11.8 | 5.4 | 0.15 | 1.286 | 117.4 | 0.745 | 2.957 | 294.5 | 542.2 | 0.753 | 5.160 | -1.35 | 0.224 | 83.7 | 215.9 | -3.1 | 0.225 |
| 4-2520 | 4-3560 | 0.633 | 12.4 | 5.5 | 0.10 | 1.286 | 117.8 | 0.748 | 2.961 | 293.6 | 542.9 | 0.746 | 5.176 | -1.34 | 0.224 | 81.5 | 215.5 | -3.1 | 0.227 |
| 4-2520 | 4-3580 | 0.641 | 13.0 | 5.7 | 0.06 | 1.287 | 118.3 | 0.751 | 2.966 | 292.6 | 543.6 | 0.739 | 5.194 | -1.32 | 0.224 | 79.4 | 215.2 | -3.0 | 0.230 |
| 4-2520 | 4-3600 | 0.649 | 13.6 | 5.9 | 0.02 | 1.287 | 118.8 | 0.754 | 2.973 | 291.5 | 544.2 | 0.731 | 5.214 | -1.31 | 0.224 | 77.3 | 215.1 | -3.0 | 0.233 |
| 4-2520 | 4-3620 | 0.658 | 14.2 | 6.0 | -0.02 | 1.287 | 119.3 | 0.757 | 2.980 | 290.5 | 544.9 | 0.723 | 5.237 | -1.30 | 0.225 | 75.3 | 215.0 | -3.0 | 0.236 |
| 4-2520 | 4-3640 | 0.667 | 14.8 | 6.2 | -0.06 | 1.287 | 119.8 | 0.761 | 2.987 | 289.4 | 545.5 | 0.714 | 5.260 | -1.29 | 0.226 | 73.4 | 215.0 | -2.9 | 0.239 |
| 4-2520 | 4-3660 | 0.677 | 15.4 | 6.4 | -0.10 | 1.288 | 120.3 | 0.764 | 2.996 | 288.3 | 546.0 | 0.706 | 5.286 | -1.28 | 0.227 | 71.5 | 215.1 | -2.9 | 0.243 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2520 | 4-3680 | 0.686 | 16.1 | 6.6 | -0.13 | 1.288 | 120.9 | 0.768 | 3.005 | 287.2 | 546.6 | 0.697 | 5.313 | -1.27 | 0.228 | 69.7 | 215.4 | -2.9 | 0.246 |
| 4-2520 | 4-3700 | 0.696 | 16.7 | 6.8 | -0.17 | 1.289 | 121.5 | 0.772 | 3.014 | 286.0 | 547.1 | 0.687 | 5.341 | -1.27 | 0.229 | 67.9 | 215.7 | -2.9 | 0.250 |
| 4-2520 | 4-3720 | 0.707 | 17.3 | 7.0 | -0.21 | 1.289 | 122.0 | 0.776 | 3.024 | 284.8 | 547.5 | 0.678 | 5.371 | -1.26 | 0.230 | 66.2 | 216.0 | -2.9 | 0.254 |
| 4-2520 | 4-3740 | 0.717 | 17.9 | 7.2 | -0.25 | 1.290 | 122.6 | 0.780 | 3.035 | 283.6 | 548.0 | 0.668 | 5.401 | -1.26 | 0.231 | 64.5 | 216.5 | -2.8 | 0.258 |
| 4-2520 | 4-3760 | 0.728 | 18.6 | 7.4 | -0.28 | 1.290 | 123.2 | 0.784 | 3.045 | 282.4 | 548.4 | 0.658 | 5.433 | -1.26 | 0.233 | 62.9 | 217.0 | -2.8 | 0.261 |
| 4-2520 | 4-3780 | 0.739 | 19.2 | 7.6 | -0.32 | 1.290 | 123.9 | 0.788 | 3.057 | 281.2 | 548.8 | 0.647 | 5.466 | -1.25 | 0.234 | 61.4 | 217.6 | -2.8 | 0.265 |
| 4-2520 | 4-3800 | 0.750 | 19.9 | 7.8 | -0.35 | 1.291 | 124.5 | 0.793 | 3.068 | 279.9 | 549.2 | 0.636 | 5.500 | -1.25 | 0.236 | 59.8 | 218.2 | -2.8 | 0.270 |
| 4-2520 | 4-3820 | 0.762 | 20.5 | 8.1 | -0.39 | 1.291 | 125.1 | 0.797 | 3.080 | 278.6 | 549.5 | 0.625 | 5.535 | -1.25 | 0.237 | 58.4 | 218.9 | -2.9 | 0.274 |
| 4-2520 | 4-3840 | 0.774 | 21.2 | 8.3 | -0.42 | 1.292 | 125.8 | 0.801 | 3.092 | 277.3 | 549.8 | 0.614 | 5.570 | -1.25 | 0.239 | 56.9 | 219.7 | -2.9 | 0.278 |
| 4-2520 | 4-3860 | 0.786 | 21.8 | 8.5 | -0.46 | 1.292 | 126.5 | 0.806 | 3.105 | 276.0 | 550.1 | 0.603 | 5.607 | -1.26 | 0.240 | 55.5 | 220.5 | -2.9 | 0.282 |
| 4-2520 | 4-3880 | 0.798 | 22.5 | 8.7 | -0.50 | 1.293 | 127.2 | 0.810 | 3.117 | 274.7 | 550.4 | 0.591 | 5.644 | -1.26 | 0.242 | 54.1 | 221.3 | -2.9 | 0.286 |
| 4-2520 | 4-3900 | 0.810 | 23.1 | 9.0 | -0.53 | 1.293 | 127.9 | 0.815 | 3.130 | 273.3 | 550.7 | 0.579 | 5.682 | -1.26 | 0.244 | 52.8 | 222.2 | -2.9 | 0.290 |
| 4-2520 | 4-3920 | 0.823 | 23.8 | 9.2 | -0.57 | 1.294 | 128.6 | 0.820 | 3.144 | 271.9 | 550.9 | 0.567 | 5.720 | -1.27 | 0.246 | 51.5 | 223.2 | -2.9 | 0.295 |
| 4-2520 | 4-3940 | 0.836 | 24.5 | 9.4 | -0.60 | 1.294 | 129.3 | 0.824 | 3.157 | 270.5 | 551.1 | 0.554 | 5.760 | -1.27 | 0.247 | 50.2 | 224.2 | -2.9 | 0.299 |
| 4-2520 | 4-3960 | 0.849 | 25.1 | 9.6 | -0.64 | 1.295 | 130.0 | 0.829 | 3.171 | 269.1 | 551.3 | 0.542 | 5.799 | -1.28 | 0.249 | 49.0 | 225.2 | -3.0 | 0.303 |
| 4-2520 | 4-3980 | 0.862 | 25.8 | 9.9 | -0.68 | 1.296 | 130.8 | 0.834 | 3.184 | 267.7 | 551.5 | 0.529 | 5.840 | -1.29 | 0.251 | 47.7 | 226.2 | -3.0 | 0.308 |
| 4-2520 | 4-4000 | 0.876 | 26.5 | 10.1 | -0.71 | 1.296 | 131.5 | 0.839 | 3.198 | 266.3 | 551.6 | 0.516 | 5.880 | -1.30 | 0.253 | 46.5 | 227.3 | -3.0 | 0.312 |
| 4-2520 | 4-4020 | 0.889 | 27.1 | 10.3 | -0.75 | 1.297 | 132.3 | 0.843 | 3.212 | 264.8 | 551.8 | 0.503 | 5.922 | -1.31 | 0.254 | 45.4 | 228.5 | -3.0 | 0.316 |
| 4-2520 | 4-4040 | 0.903 | 27.8 | 10.6 | -0.79 | 1.297 | 133.1 | 0.848 | 3.227 | 263.3 | 551.9 | 0.490 | 5.964 | -1.32 | 0.256 | 44.2 | 229.6 | -3.1 | 0.321 |
| 4-2520 | 4-4060 | 0.917 | 28.5 | 10.8 | -0.83 | 1.298 | 133.9 | 0.853 | 3.241 | 261.8 | 552.0 | 0.476 | 6.006 | -1.33 | 0.258 | 43.1 | 230.8 | -3.1 | 0.325 |
| 4-2520 | 4-4080 | 0.932 | 29.2 | 11.0 | -0.87 | 1.298 | 134.7 | 0.858 | 3.255 | 260.3 | 552.1 | 0.462 | 6.048 | -1.35 | 0.260 | 41.9 | 232.0 | -3.1 | 0.330 |
| 4-2520 | 4-4100 | 0.946 | 29.8 | 11.2 | -0.91 | 1.299 | 135.5 | 0.863 | 3.270 | 258.8 | 552.1 | 0.449 | 6.091 | -1.36 | 0.262 | 40.8 | 233.2 | -3.2 | 0.334 |
| 4-2520 | 4-4120 | 0.961 | 30.5 | 11.5 | -0.95 | 1.299 | 136.3 | 0.868 | 3.285 | 257.3 | 552.2 | 0.435 | 6.135 | -1.38 | 0.264 | 39.7 | 234.5 | -3.2 | 0.338 |
| 4-2530 | 4-2930 | 0.752 | 3.8 | 30.2 | 15.07 | 1.410 | 116.1 | 1.00240 | .523 | 307.9 | 492.2 | 0.812 | --- | -15.69 | 0.636 | 156.2 | 243.6 | -9.2 | 0.614 |
| 4-2530 | 4-2950 | 0.693 | 5.0 | 23.2 | 10.45 | 1.392 | 115.1 | 0.96020 | .631 | 308.7 | 494.8 | 0.822 | --- | -11.09 | 0.594 | 154.6 | 244.2 | -7.7 | 0.568 |
| 4-2530 | 4-2970 | 0.655 | 5.6 | 19.1 | 7.91 | 1.377 | 114.2 | 0.92410 | .960 | 309.4 | 497.3 | 0.830 | --- | -8.57 | 0.557 | 152.9 | 244.5 | -6.9 | 0.529 |
| 4-2530 | 4-2990 | 0.627 | 6.0 | 16.4 | 6.31 | 1.364 | 113.5 | 0.893 | 7.847 | 310.1 | 499.8 | 0.838 | --- | -6.98 | 0.523 | 151.1 | 244.6 | -6.3 | 0.493 |
| 4-2530 | 4-3010 | 0.604 | 6.2 | 14.5 | 5.21 | 1.352 | 112.8 | 0.866 | 6.321 | 310.7 | 502.2 | 0.844 | --- | -5.90 | 0.493 | 149.3 | 244.5 | -6.0 | 0.461 |
| 4-2530 | 4-3030 | 0.585 | 6.4 | 13.0 | 4.40 | 1.343 | 112.2 | 0.843 | 5.422 | 311.2 | 504.5 | 0.850 | --- | -5.11 | 0.465 | 147.4 | 244.4 | -5.7 | 0.432 |
| 4-2530 | 4-3050 | 0.569 | 6.5 | 11.8 | 3.78 | 1.334 | 111.7 | 0.823 | 4.834 | 311.7 | 506.7 | 0.854 | --- | -4.51 | 0.440 | 145.4 | 244.1 | -5.5 | 0.406 |
| 4-2530 | 4-3070 | 0.556 | 6.5 | 10.8 | 3.29 | 1.327 | 111.2 | 0.806 | 4.422 | 312.1 | 508.9 | 0.858 | --- | -4.04 | 0.417 | 143.3 | 243.7 | -5.4 | 0.382 |
| 4-2530 | 4-3090 | 0.545 | 6.6 | 10.0 | 2.90 | 1.321 | 110.9 | 0.791 | 4.121 | 312.4 | 511.0 | 0.862 | --- | -3.67 | 0.396 | 141.2 | 243.2 | -5.3 | 0.361 |
| 4-2530 | 4-3110 | 0.536 | 6.7 | 9.3 | 2.57 | 1.315 | 110.6 | 0.778 | 3.893 | 312.6 | 513.0 | 0.864 | --- | -3.36 | 0.377 | 139.0 | 242.6 | -5.2 | 0.341 |
| 4-2530 | 4-3130 | 0.528 | 6.8 | 8.6 | 2.29 | 1.311 | 110.3 | 0.767 | 3.715 | 312.8 | 515.0 | 0.866 | --- | -3.10 | 0.360 | 136.7 | 241.9 | -5.1 | 0.323 |
| 4-2530 | 4-3150 | 0.521 | 6.9 | 8.3 | 2.06 | 1.307 | 110.1 | 0.757 | 3.575 | 312.9 | 516.9 | 0.868 | --- | -2.88 | 0.344 | 134.4 | 241.0 | -5.0 | 0.307 |
| 4-2530 | 4-3170 | 0.516 | 7.1 | 7.8 | 1.85 | 1.303 | 110.0 | 0.749 | 3.462 | 312.9 | 518.7 | 0.869 | --- | -2.70 | 0.330 | 132.0 | 240.1 | -4.9 | 0.292 |
| 4-2530 | 4-3190 | 0.512 | 7.3 | 7.5 | 1.67 | 1.300 | 109.9 | 0.742 | 3.371 | 312.9 | 520.4 | 0.870 | --- | -2.53 | 0.317 | 129.6 | 239.0 | -4.8 | 0.279 |
| 4-2530 | 4-3210 | 0.510 | 7.5 | 7.2 | 1.51 | 1.298 | 109.8 | 0.736 | 3.296 | 312.8 | 522.1 | 0.870 | --- | -2.39 | 0.306 | 127.1 | 237.9 | -4.8 | 0.268 |
| 4-2530 | 4-3230 | 0.508 | 7.8 | 6.9 | 1.37 | 1.295 | 109.8 | 0.731 | 3.234 | 312.6 | 523.7 | 0.869 | --- | -2.27 | 0.295 | 124.6 | 236.6 | -4.7 | 0.257 |
| 4-2530 | 4-3250 | 0.506 | 8.1 | 6.7 | 1.24 | 1.293 | 109.8 | 0.727 | 3.183 | 312.4 | 525.2 | 0.868 | --- | -2.16 | 0.286 | 122.0 | 235.3 | -4.6 | 0.248 |
| 4-2530 | 4-3270 | 0.506 | 8.4 | 6.6 | 1.12 | 1.292 | 109.9 | 0.724 | 3.141 | 312.1 | 526.7 | 0.867 | --- | -2.06 | 0.278 | 119.4 | 233.9 | -4.6 | 0.240 |
| 4-2530 | 4-3290 | 0.507 | 8.8 | 6.4 | 1.02 | 1.290 | 110.0 | 0.721 | 3.106 | 311.7 | 528.1 | 0.866 | --- | -1.98 | 0.270 | 116.8 | 232.5 | -4.5 | 0.234 |
| 4-2530 | 4-3310 | 0.508 | 9.2 | 6.3 | 0.92 | 1.289 | 110.1 | 0.719 | 3.077 | 311.3 | 529.4 | 0.864 | --- | -1.90 | 0.264 | 114.2 | 231.1 | -4.4 | 0.228 |
| 4-2530 | 4-3330 | 0.509 | 9.6 | 6.3 | 0.83 | 1.288 | 110.3 | 0.718 | 3.053 | 310.9 | 530.7 | 0.861 | --- | -1.83 | 0.258 | 111.7 | 229.6 | -4.3 | 0.223 |
| 4-2530 | 4-3350 | 0.512 | 10.0 | 6.2 | 0.74 | 1.287 | 110.5 | 0.717 | 3.034 | 310.4 | 532.0 | 0.859 | --- | -1.77 | 0.253 | 109.1 | 228.2 | -4.2 | 0.219 |
| 4-2530 | 4-3370 | 0.515 | 10.5 | 6.2 | 0.67 | 1.287 | 110.7 | 0.717 | 3.019 | 309.8 | 533.1 | 0.856 | --- | -1.71 | 0.248 | 106.5 | 226.8 | -4.1 | 0.216 |
| 4-2530 | 4-3390 | 0.518 | 11.0 | 6.2 | 0.59 | 1.286 | 110.9 | 0.717 | 3.006 | 309.2 | 534.3 | 0.852 | --- | -1.66 | 0.245 | 104.0 | 225.4 | -4.0 | 0.214 |
| 4-2530 | 4-3410 | 0.522 | 11.5 | 6.3 | 0.52 | 1.286 | 111.2 | 0.717 | 2.997 | 308.6 | 535.4 | 0.848 | --- | -1.61 | 0.241 | 101.5 | 224.1 | -3.9 | 0.212 |
| 4-2530 | 4-3430 | 0.526 | 12.1 | 6.3 | 0.46 | 1.286 | 111.5 | 0.718 | 2.990 | 307.9 | 536.4 | 0.844 | --- | -1.56 | 0.239 | 99.0 | 222.9 | -3.8 | 0.211 |
| 4-2530 | 4-3450 | 0.531 | 12.6 | 6.4 | 0.40 | 1.285 | 111.8 | 0.719 | 2.985 | 307.2 | 537.4 | 0.840 | --- | -1.52 | 0.236 | 96.6 | 221.8 | -3.7 | 0.211 |
| 4-2530 | 4-3470 | 0.536 | 13.2 | 6.5 | 0.34 | 1.285 | 112.1 | 0.720 | 2.983 | 306.4 | 538.4 | 0.835 | --- | -1.49 | 0.235 | 94.2 | 220.8 | -3.7 | 0.211 |
| 4-2530 | 4-3490 | 0.542 | 13.8 | 6.6 | 0.29 | 1.285 | 112.4 | 0.721 | 2.981 | 305.6 | 539.3 | 0.830 | --- | -1.45 | 0.233 | 91.9 | 219.9 | -3.6 | 0.212 |
| 4-2530 | 4-3510 | 0.548 | 14.4 | 6.7 | 0.23 | 1.285 | 112.8 | 0.723 | 2.982 | 304.8 | 540.1 | 0.825 | 5.138 | -1.42 | 0.232 | 89.7 | 219.1 | -3.5 | 0.213 |
| 4-2530 | 4-3530 | 0.554 | 15.0 | 6.8 | 0.18 | 1.285 | 113.2 | 0.725 | 2.984 | 303.9 | 541.0 | 0.820 | 5.147 | -1.40 | 0.231 | 87.5 | 218.4 | -3.4 | 0.214 |
| 4-2530 | 4-3550 | 0.561 | 15.6 | 7.0 | 0.14 | 1.285 | 113.6 | 0.728 | 2.986 | 303.0 | 541.8 | 0.814 | 5.159 | -1.37 | 0.231 | 85.3 | 217.8 | -3.3 | 0.216 |
| 4-2530 | 4-3570 | 0.568 | 16.2 | 7.1 | 0.09 | 1.286 | 114.0 | 0.730 | 2.990 | 302.1 | 542.5 | 0.808 | 5.173 | -1.35 | 0.231 | 83.2 | 217.4 | -3.3 | 0.218 |
| 4-2530 | 4-3590 | 0.575 | 16.9 | 7.3 | 0.04 | 1.286 | 114.5 | 0.733 | 2.995 | 301.1 | 543.2 | 0.801 | 5.190 | -1.33 | 0.231 | 81.2 | 217.0 | -3.2 | 0.220 |
| 4-2530 | 4-3610 | 0.583 | 17.5 | 7.4 | 0.00 | 1.286 | 114.9 | 0.735 | 3.001 | 300.1 | 543.9 | 0.794 | 5.208 | -1.31 | 0.231 | 79.3 | 216.8 | -3.2 | 0.223 |
| 4-2530 | 4-3630 | 0.591 | 18.2 | 7.6 | -0.04 | 1.286 | 115.4 | 0.738 | 3.008 | 299.1 | 544.6 | 0.787 | 5.229 | -1.29 | 0.231 | 77.4 | 216.7 | -3.1 | 0.226 |
| 4-2530 | 4-3650 | 0.600 | 18.8 | 7.8 | -0.08 | 1.287 | 115.9 | 0.741 | 3.015 | 298.1 | 545.2 | 0.780 | 5.251 | -1.27 | 0.232 | 75.5 | 216.6 | -3.1 | 0.229 |
| 4-2530 | 4-3670 | 0.608 | 19.5 | 8.0 | -0.12 | 1.287 | 116.4 | 0.745 | 3.023 | 297.0 | 545.8 | 0.772 | 5.275 | -1.26 | 0.233 | 73.7 | 216.7 | -3.0 | 0.232 |
| 4-2530 | 4-3690 | 0.617 | 20.2 | 8.2 | -0.16 | 1.287 | 116.9 | 0.748 | 3.032 | 295.9 | 546.4 | 0.764 | 5.300 | -1.24 | 0.234 | 72.0 | 216.8 | -3.0 | 0.235 |
| 4-2530 | 4-3710 | 0.626 | 20.9 | 8.4 | -0.20 | 1.288 | 117.4 | 0.751 | 3.041 | 294.8 | 546.9 | 0.756 | 5.327 | -1.23 | 0.234 | 70.3 | 217.1 | -3.0 | 0.239 |
| 4-2530 | 4-3730 | 0.636 | 21.5 | 8.6 | -0.24 | 1.288 | 117.9 | 0.755 | 3.051 | 293.7 | 547.5 | 0.748 | 5.354 | -1.22 | 0.236 | 68.7 | 217.4 | -3.0 | 0.242 |
| 4-2530 | 4-3750 | 0.645 | 22.2 | 8.8 | -0.27 | 1.289 | 118.5 | 0.759 | 3.061 | 292.5 | 548.0 | 0.739 | 5.383 | -1.21 | 0.237 | 67.1 | 217.8 | -3.0 | 0.246 |
| 4-2530 | 4-3770 | 0.655 | 22.9 | 9.0 | -0.31 | 1.289 | 119.1 | 0.762 | 3.072 | 291.4 | 548.4 | 0.730 | 5.414 | -1.20 | 0.238 | 65.6 | 218.2 | -2.9 | 0.249 |
| 4-2530 | 4-3790 | 0.665 | 23.6 | 9.2 | -0.34 | 1.289 | 119.6 | 0.766 | 3.083 | 290.2 | 548.9 | 0.720 | 5.445 | -1.19 | 0.239 | 64.1 | 218.7 | -2.9 | 0.253 |
| 4-2530 | 4-3810 | 0.676 | 24.3 | 9.4 | -0.38 | 1.290 | 120.2 | 0.770 | 3.094 | 288.9 | 549.3 | 0.711 | 5.477 | -1.19 | 0.241 | 62.6 | 219.3 | -2.9 | 0.257 |
| 4-2530 | 4-3830 | 0.686 | 25.0 | 9.7 | -0.41 | 1.290 | 120.8 | 0.774 | 3.105 | 287.7 | 549.7 | 0.701 | 5.510 | -1.18 | 0.242 | 61.2 | 220.0 | -2.9 | 0.260 |
| 4-2530 | 4-3850 | 0.697 | 25.7 | 9.9 | -0.44 | 1.291 | 121.5 | 0.778 | 3.117 | 286.4 | 550.0 | 0.691 | 5.544 | -1.18 | 0.244 | 59.9 | 220.7 | -2.9 | 0.264 |
| 4-2530 | 4-3870 | 0.708 | 26.3 | 10.1 | -0.48 | 1.291 | 122.1 | 0.783 | 3.130 | 285.2 | 550.4 | 0.680 | 5.579 | -1.18 | 0.245 | 58.5 | 221.4 | -2.9 | 0.268 |
| 4-2530 | 4-3890 | 0.720 | 27.0 | 10.3 | -0.51 | 1.292 | 122.7 | 0.787 | 3.142 | 283.9 | 550.7 | 0.670 | 5.614 | -1.17 | 0.247 | 57.2 | 222.2 | -3.0 | 0.272 |
| 4-2530 | 4-3910 | 0.731 | 27.7 | 10.6 | -0.54 | 1.292 | 123.4 | 0.791 | 3.155 | 282.6 | 551.0 | 0.659 | 5.651 | -1.17 | 0.248 | 55.9 | 223.1 | -3.0 | 0.276 |
| 4-2530 | 4-3930 | 0.743 | 28.4 | 10.8 | -0.58 | 1.293 | 124.0 | 0.796 | 3.168 | 281.3 | 551.3 | 0.648 | 5.687 | -1.17 | 0.250 | 54.7 | 224.0 | -3.0 | 0.280 |
| 4-2530 | 4-3950 | 0.755 | 29.1 | 11.0 | -0.61 | 1.293 | 124.7 | 0.800 | 3.181 | 279.9 | 551.6 | 0.636 | 5.725 | -1.17 | 0.252 | 53.5 | 224.9 | -3.0 | 0.284 |
| 4-2530 | 4-3970 | 0.767 | 29.8 | 11.2 | -0.64 | 1.294 | 125.4 | 0.804 | 3.194 | 278.6 | 551.8 | 0.625 | 5.763 | -1.17 | 0.253 | 52.3 | 225.9 | -3.0 | 0.288 |
| 4-2530 | 4-3990 | 0.780 | 30.5 | 11.5 | -0.68 | 1.294 | 126.1 | 0.809 | 3.207 | 277.2 | 552.0 | 0.613 | 5.802 | -1.18 | 0.255 | 51.1 | 226.9 | -3.0 | 0.292 |
| 4-2530 | 4-4010 | 0.792 | 31.2 | 11.7 | -0.71 | 1.295 | 126.8 | 0.814 | 3.221 | 275.8 | 552.2 | 0.601 | 5.841 | -1.18 | 0.257 | 49.9 | 227.9 | -3.1 | 0.296 |
| 4-2530 | 4-4030 | 0.805 | 31.9 | 11.9 | -0.74 | 1.295 | 127.5 | 0.818 | 3.235 | 274.4 | 552.4 | 0.588 | 5.881 | -1.18 | 0.258 | 48.8 | 229.0 | -3.1 | 0.300 |
| 4-2530 | 4-4050 | 0.818 | 32.6 | 12.1 | -0.77 | 1.296 | 128.2 | 0.823 | 3.249 | 273.0 | 552.6 | 0.576 | 5.921 | -1.19 | 0.260 | 47.7 | 230.1 | -3.1 | 0.304 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2530 | 4-4070 | 0.831 | 33.3 | 12.4 | -0.81 | 1.296 | 129.0 | 0.827 | 3.263 | 271.5 | 552.7 | 0.563 | 5.962 | -1.19 | 0.262 | 46.6 | 231.2 | -3.1 | 0.308 |
| 4-2530 | 4-4090 | 0.844 | 34.0 | 12.6 | -0.84 | 1.297 | 129.7 | 0.832 | 3.277 | 270.1 | 552.9 | 0.550 | 6.003 | -1.20 | 0.263 | 45.6 | 232.4 | -3.2 | 0.313 |
| 4-2530 | 4-4110 | 0.858 | 34.7 | 12.8 | -0.88 | 1.297 | 130.5 | 0.837 | 3.291 | 268.6 | 553.0 | 0.537 | 6.045 | -1.21 | 0.265 | 44.5 | 233.5 | -3.2 | 0.317 |
| 4-2530 | 4-4130 | 0.871 | 35.4 | 13.0 | -0.91 | 1.298 | 131.3 | 0.842 | 3.305 | 267.2 | 553.1 | 0.524 | 6.087 | -1.22 | 0.267 | 43.5 | 234.7 | -3.2 | 0.321 |
| 4-2540 | 4-2940 | 0.688 | 28.0 | -17.0 | -13.62 | 1.409 | 112.4 | 1.00397 | .439 | 315.3 | 490.6 | 0.863 | --- | 12.90 | 0.637 | 155.5 | 245.7 | 2.8 | 0.606 |
| 4-2540 | 4-2960 | 0.736 | 37.3 | -27.8 | -21.38 | 1.391 | 111.4 | 0.95921 | .312 | 316.2 | 493.2 | 0.872 | --- | 20.64 | 0.596 | 153.9 | 244.9 | 6.5 | 0.573 |
| 4-2540 | 4-2980 | 1.076 | 71.6 | -40.3 | -47.38 | 1.376 | 110.5 | 0.92111 | .195 | 317.3 | 495.8 | 0.881 | --- | 46.62 | 0.559 | 152.1 | 239.1 | 16.2 | 0.588 |
| 4-2540 | 4-3000 | 1.134 | 13.5 | 80.0 | 51.86 | 1.363 | 110.1 | 0.890 | 7.985 | 317.1 | 498.5 | 0.882 | --- | -52.63 | 0.525 | 150.5 | 235.7 | -23.5 | 0.575 |
| 4-2540 | 4-3020 | 0.682 | 359.3 | 47.3 | 21.26 | 1.351 | 109.3 | 0.861 | 6.420 | 318.1 | 500.9 | 0.890 | --- | -22.05 | 0.495 | 148.6 | 243.9 | -14.5 | 0.474 |
| 4-2540 | 4-3040 | 0.581 | 2.8 | 32.8 | 12.68 | 1.342 | 108.7 | 0.837 | 5.501 | 318.7 | 503.3 | 0.895 | --- | -13.49 | 0.467 | 146.7 | 245.1 | -10.7 | 0.435 |
| 4-2540 | 4-3060 | 0.540 | 4.7 | 25.2 | 8.86 | 1.333 | 108.2 | 0.816 | 4.900 | 319.3 | 505.6 | 0.899 | --- | -9.68 | 0.443 | 144.7 | 245.3 | -8.9 | 0.406 |
| 4-2540 | 4-3080 | 0.516 | 5.9 | 20.7 | 6.71 | 1.326 | 107.8 | 0.798 | 4.480 | 319.7 | 507.8 | 0.903 | --- | -7.55 | 0.420 | 142.7 | 245.1 | -7.8 | 0.381 |
| 4-2540 | 4-3100 | 0.500 | 6.7 | 17.6 | 5.33 | 1.320 | 107.4 | 0.783 | 4.173 | 320.1 | 509.9 | 0.906 | --- | -6.19 | 0.399 | 140.6 | 244.7 | -7.2 | 0.358 |
| 4-2540 | 4-3120 | 0.488 | 7.2 | 15.5 | 4.38 | 1.315 | 107.1 | 0.769 | 3.940 | 320.4 | 512.0 | 0.908 | --- | -5.25 | 0.381 | 138.4 | 244.2 | -6.7 | 0.338 |
| 4-2540 | 4-3140 | 0.479 | 7.7 | 13.8 | 3.67 | 1.310 | 106.9 | 0.758 | 3.760 | 320.6 | 514.0 | 0.910 | --- | -4.56 | 0.364 | 136.2 | 243.5 | -6.3 | 0.320 |
| 4-2540 | 4-3160 | 0.472 | 8.0 | 12.5 | 3.13 | 1.306 | 106.7 | 0.748 | 3.617 | 320.8 | 515.9 | 0.912 | --- | -4.04 | 0.349 | 133.9 | 242.7 | -6.1 | 0.304 |
| 4-2540 | 4-3180 | 0.466 | 8.4 | 11.5 | 2.70 | 1.303 | 106.5 | 0.739 | 3.502 | 320.8 | 517.8 | 0.913 | --- | -3.63 | 0.335 | 131.5 | 241.8 | -5.8 | 0.289 |
| 4-2540 | 4-3200 | 0.462 | 8.8 | 10.7 | 2.36 | 1.299 | 106.4 | 0.732 | 3.409 | 320.8 | 519.6 | 0.913 | --- | -3.29 | 0.322 | 129.2 | 240.8 | -5.7 | 0.276 |
| 4-2540 | 4-3220 | 0.458 | 9.1 | 10.0 | 2.06 | 1.297 | 106.4 | 0.726 | 3.332 | 320.8 | 521.3 | 0.913 | --- | -3.02 | 0.311 | 126.7 | 239.7 | -5.5 | 0.265 |
| 4-2540 | 4-3240 | 0.456 | 9.5 | 9.5 | 1.82 | 1.295 | 106.4 | 0.721 | 3.269 | 320.6 | 522.9 | 0.913 | --- | -2.79 | 0.300 | 124.3 | 238.5 | -5.3 | 0.254 |
| 4-2540 | 4-3260 | 0.454 | 9.9 | 9.0 | 1.61 | 1.293 | 106.4 | 0.716 | 3.217 | 320.4 | 524.4 | 0.913 | --- | -2.60 | 0.291 | 121.8 | 237.2 | -5.2 | 0.245 |
| 4-2540 | 4-3280 | 0.454 | 10.3 | 8.7 | 1.43 | 1.291 | 106.4 | 0.713 | 3.174 | 320.2 | 525.9 | 0.912 | --- | -2.43 | 0.283 | 119.3 | 235.8 | -5.1 | 0.237 |
| 4-2540 | 4-3300 | 0.454 | 10.8 | 8.4 | 1.26 | 1.290 | 106.5 | 0.710 | 3.139 | 319.9 | 527.4 | 0.910 | --- | -2.29 | 0.276 | 116.8 | 234.4 | -5.0 | 0.230 |
| 4-2540 | 4-3320 | 0.454 | 11.2 | 8.1 | 1.12 | 1.289 | 106.6 | 0.708 | 3.109 | 319.5 | 528.8 | 0.909 | --- | -2.16 | 0.269 | 114.3 | 233.0 | -4.8 | 0.224 |
| 4-2540 | 4-3340 | 0.456 | 11.7 | 8.0 | 0.99 | 1.288 | 106.8 | 0.706 | 3.085 | 319.1 | 530.1 | 0.907 | --- | -2.05 | 0.264 | 111.8 | 231.6 | -4.7 | 0.219 |
| 4-2540 | 4-3360 | 0.458 | 12.3 | 7.8 | 0.88 | 1.287 | 107.0 | 0.705 | 3.065 | 318.6 | 531.3 | 0.905 | --- | -1.96 | 0.259 | 109.3 | 230.2 | -4.6 | 0.215 |
| 4-2540 | 4-3380 | 0.460 | 12.8 | 7.7 | 0.77 | 1.286 | 107.2 | 0.704 | 3.049 | 318.1 | 532.5 | 0.902 | --- | -1.87 | 0.254 | 106.8 | 228.8 | -4.5 | 0.211 |
| 4-2540 | 4-3400 | 0.463 | 13.4 | 7.7 | 0.68 | 1.286 | 107.4 | 0.704 | 3.036 | 317.5 | 533.7 | 0.900 | --- | -1.79 | 0.251 | 104.4 | 227.4 | -4.3 | 0.209 |
| 4-2540 | 4-3420 | 0.466 | 14.0 | 7.7 | 0.59 | 1.285 | 107.6 | 0.704 | 3.026 | 316.9 | 534.8 | 0.897 | --- | -1.72 | 0.247 | 102.0 | 226.1 | -4.2 | 0.207 |
| 4-2540 | 4-3440 | 0.470 | 14.6 | 7.7 | 0.51 | 1.285 | 107.9 | 0.704 | 3.019 | 316.2 | 535.9 | 0.893 | --- | -1.66 | 0.245 | 99.6 | 224.9 | -4.1 | 0.206 |
| 4-2540 | 4-3460 | 0.474 | 15.2 | 7.7 | 0.44 | 1.285 | 108.2 | 0.705 | 3.014 | 315.5 | 536.9 | 0.890 | --- | -1.60 | 0.242 | 97.3 | 223.8 | -4.0 | 0.205 |
| 4-2540 | 4-3480 | 0.479 | 15.9 | 7.8 | 0.37 | 1.285 | 108.5 | 0.706 | 3.011 | 314.8 | 537.9 | 0.886 | --- | -1.55 | 0.241 | 95.1 | 222.7 | -3.9 | 0.205 |
| 4-2540 | 4-3500 | 0.484 | 16.6 | 7.9 | 0.30 | 1.284 | 108.8 | 0.707 | 3.010 | 314.0 | 538.8 | 0.882 | --- | -1.50 | 0.239 | 92.9 | 221.8 | -3.8 | 0.205 |
| 4-2540 | 4-3520 | 0.489 | 17.2 | 8.0 | 0.24 | 1.284 | 109.2 | 0.709 | 3.010 | 313.2 | 539.7 | 0.877 | --- | -1.46 | 0.238 | 90.7 | 220.9 | -3.7 | 0.206 |
| 4-2540 | 4-3540 | 0.495 | 17.9 | 8.1 | 0.18 | 1.285 | 109.5 | 0.710 | 3.011 | 312.4 | 540.6 | 0.873 | 5.150 | -1.42 | 0.237 | 88.6 | 220.2 | -3.6 | 0.207 |
| 4-2540 | 4-3560 | 0.501 | 18.6 | 8.2 | 0.13 | 1.285 | 109.9 | 0.712 | 3.014 | 311.5 | 541.4 | 0.868 | 5.160 | -1.38 | 0.237 | 86.6 | 219.6 | -3.5 | 0.209 |
| 4-2540 | 4-3580 | 0.507 | 19.3 | 8.4 | 0.07 | 1.285 | 110.3 | 0.714 | 3.018 | 310.6 | 542.2 | 0.862 | 5.173 | -1.35 | 0.237 | 84.6 | 219.1 | -3.4 | 0.210 |
| 4-2540 | 4-3600 | 0.514 | 20.1 | 8.5 | 0.02 | 1.285 | 110.7 | 0.716 | 3.022 | 309.7 | 542.9 | 0.857 | 5.188 | -1.32 | 0.236 | 82.7 | 218.7 | -3.4 | 0.212 |
| 4-2540 | 4-3620 | 0.521 | 20.8 | 8.7 | -0.02 | 1.285 | 111.2 | 0.719 | 3.028 | 308.7 | 543.7 | 0.851 | 5.205 | -1.29 | 0.237 | 80.8 | 218.4 | -3.3 | 0.215 |
| 4-2540 | 4-3640 | 0.528 | 21.5 | 8.9 | -0.07 | 1.286 | 111.6 | 0.722 | 3.035 | 307.7 | 544.3 | 0.845 | 5.224 | -1.27 | 0.237 | 79.0 | 218.2 | -3.3 | 0.217 |
| 4-2540 | 4-3660 | 0.536 | 22.2 | 9.1 | -0.11 | 1.286 | 112.0 | 0.724 | 3.042 | 306.7 | 545.0 | 0.839 | 5.245 | -1.24 | 0.237 | 77.2 | 218.1 | -3.2 | 0.220 |
| 4-2540 | 4-3680 | 0.544 | 23.0 | 9.3 | -0.15 | 1.286 | 112.5 | 0.727 | 3.050 | 305.7 | 545.6 | 0.832 | 5.267 | -1.22 | 0.238 | 75.5 | 218.1 | -3.2 | 0.223 |
| 4-2540 | 4-3700 | 0.552 | 23.7 | 9.5 | -0.19 | 1.286 | 113.0 | 0.730 | 3.058 | 304.6 | 546.2 | 0.825 | 5.291 | -1.20 | 0.239 | 73.9 | 218.2 | -3.1 | 0.226 |
| 4-2540 | 4-3720 | 0.560 | 24.5 | 9.7 | -0.23 | 1.287 | 113.5 | 0.733 | 3.067 | 303.6 | 546.8 | 0.818 | 5.316 | -1.18 | 0.240 | 72.3 | 218.4 | -3.1 | 0.229 |
| 4-2540 | 4-3740 | 0.569 | 25.2 | 9.9 | -0.27 | 1.287 | 114.0 | 0.736 | 3.077 | 302.5 | 547.4 | 0.811 | 5.342 | -1.17 | 0.241 | 70.7 | 218.7 | -3.1 | 0.232 |
| 4-2540 | 4-3760 | 0.577 | 26.0 | 10.1 | -0.31 | 1.288 | 114.5 | 0.740 | 3.086 | 301.3 | 547.9 | 0.803 | 5.370 | -1.15 | 0.242 | 69.2 | 219.0 | -3.0 | 0.235 |
| 4-2540 | 4-3780 | 0.587 | 26.7 | 10.3 | -0.34 | 1.288 | 115.1 | 0.743 | 3.097 | 300.2 | 548.4 | 0.795 | 5.398 | -1.14 | 0.243 | 67.8 | 219.4 | -3.0 | 0.239 |
| 4-2540 | 4-3800 | 0.596 | 27.5 | 10.5 | -0.38 | 1.289 | 115.6 | 0.747 | 3.108 | 299.0 | 548.9 | 0.787 | 5.428 | -1.13 | 0.244 | 66.3 | 219.9 | -3.0 | 0.242 |
| 4-2540 | 4-3820 | 0.605 | 28.2 | 10.8 | -0.41 | 1.289 | 116.2 | 0.750 | 3.119 | 297.9 | 549.3 | 0.779 | 5.459 | -1.12 | 0.245 | 64.9 | 220.4 | -3.0 | 0.246 |
| 4-2540 | 4-3840 | 0.615 | 29.0 | 11.0 | -0.44 | 1.289 | 116.7 | 0.754 | 3.130 | 296.7 | 549.7 | 0.770 | 5.490 | -1.11 | 0.247 | 63.6 | 221.0 | -3.0 | 0.249 |
| 4-2540 | 4-3860 | 0.625 | 29.7 | 11.2 | -0.48 | 1.290 | 117.3 | 0.758 | 3.142 | 295.5 | 550.1 | 0.761 | 5.522 | -1.10 | 0.248 | 62.3 | 221.7 | -3.0 | 0.253 |
| 4-2540 | 4-3880 | 0.635 | 30.5 | 11.4 | -0.51 | 1.290 | 117.9 | 0.762 | 3.154 | 294.2 | 550.5 | 0.752 | 5.556 | -1.09 | 0.250 | 61.0 | 222.4 | -3.0 | 0.256 |
| 4-2540 | 4-3900 | 0.646 | 31.2 | 11.7 | -0.54 | 1.291 | 118.5 | 0.766 | 3.166 | 293.0 | 550.9 | 0.742 | 5.590 | -1.08 | 0.251 | 59.8 | 223.1 | -3.0 | 0.260 |
| 4-2540 | 4-3920 | 0.657 | 32.0 | 11.9 | -0.57 | 1.291 | 119.1 | 0.770 | 3.178 | 291.7 | 551.2 | 0.733 | 5.624 | -1.08 | 0.253 | 58.5 | 223.9 | -3.0 | 0.264 |
| 4-2540 | 4-3940 | 0.667 | 32.7 | 12.1 | -0.60 | 1.292 | 119.7 | 0.774 | 3.191 | 290.4 | 551.6 | 0.723 | 5.660 | -1.07 | 0.254 | 57.4 | 224.8 | -3.0 | 0.267 |
| 4-2540 | 4-3960 | 0.678 | 33.5 | 12.3 | -0.63 | 1.292 | 120.4 | 0.778 | 3.204 | 289.1 | 551.9 | 0.712 | 5.696 | -1.07 | 0.256 | 56.2 | 225.7 | -3.0 | 0.271 |
| 4-2540 | 4-3980 | 0.690 | 34.2 | 12.6 | -0.66 | 1.293 | 121.0 | 0.782 | 3.217 | 287.8 | 552.2 | 0.702 | 5.732 | -1.06 | 0.257 | 55.1 | 226.6 | -3.0 | 0.275 |
| 4-2540 | 4-4000 | 0.701 | 34.9 | 12.8 | -0.69 | 1.293 | 121.6 | 0.786 | 3.230 | 286.5 | 552.4 | 0.691 | 5.769 | -1.06 | 0.259 | 53.9 | 227.5 | -3.1 | 0.278 |
| 4-2540 | 4-4020 | 0.713 | 35.7 | 13.0 | -0.72 | 1.294 | 122.3 | 0.790 | 3.244 | 285.2 | 552.7 | 0.680 | 5.807 | -1.06 | 0.260 | 52.9 | 228.5 | -3.1 | 0.282 |
| 4-2540 | 4-4040 | 0.725 | 36.4 | 13.3 | -0.75 | 1.294 | 123.0 | 0.795 | 3.257 | 283.8 | 552.9 | 0.669 | 5.845 | -1.06 | 0.262 | 51.8 | 229.6 | -3.1 | 0.286 |
| 4-2540 | 4-4060 | 0.737 | 37.2 | 13.5 | -0.78 | 1.295 | 123.7 | 0.799 | 3.271 | 282.4 | 553.1 | 0.657 | 5.884 | -1.06 | 0.263 | 50.7 | 230.6 | -3.1 | 0.290 |
| 4-2540 | 4-4080 | 0.749 | 37.9 | 13.7 | -0.81 | 1.295 | 124.3 | 0.803 | 3.285 | 281.0 | 553.3 | 0.646 | 5.923 | -1.06 | 0.265 | 49.7 | 231.7 | -3.1 | 0.294 |
| 4-2540 | 4-4100 | 0.761 | 38.7 | 13.9 | -0.84 | 1.296 | 125.1 | 0.808 | 3.298 | 279.6 | 553.5 | 0.634 | 5.963 | -1.06 | 0.267 | 48.7 | 232.8 | -3.2 | 0.297 |
| 4-2540 | 4-4120 | 0.774 | 39.4 | 14.1 | -0.87 | 1.296 | 125.8 | 0.812 | 3.312 | 278.2 | 553.7 | 0.622 | 6.003 | -1.06 | 0.268 | 47.7 | 234.0 | -3.2 | 0.301 |
| 4-2540 | 4-4140 | 0.787 | 40.1 | 14.4 | -0.90 | 1.297 | 126.5 | 0.817 | 3.327 | 276.8 | 553.8 | 0.609 | 6.044 | -1.07 | 0.270 | 46.7 | 235.1 | -3.2 | 0.305 |
| 4-2550 | 4-2910 | 0.648 | 22.3 | 0.5 | -3.92 | 1.452 | 110.8 | 1.118 | -7.582 | 320.8 | 483.7 | 0.891 | --- | 3.12 | 0.731 | 157.8 | 246.9 | -1.6 | 0.692 |
| 4-2550 | 4-2930 | 0.613 | 22.0 | -0.9 | -4.30 | 1.428 | 109.6 | 1.05516 | .460 | 321.8 | 486.6 | 0.900 | --- | 3.49 | 0.680 | 156.3 | 247.2 | -1.3 | 0.641 |
| 4-2550 | 4-2950 | 0.584 | 21.9 | -2.6 | -4.77 | 1.407 | 108.6 | 1.00130 | .922 | 322.8 | 489.3 | 0.908 | --- | 3.95 | 0.635 | 154.8 | 247.5 | -1.0 | 0.595 |
| 4-2550 | 4-2970 | 0.560 | 22.0 | -4.6 | -5.39 | 1.389 | 107.7 | 0.95620 | .841 | 323.7 | 492.1 | 0.915 | --- | 4.55 | 0.595 | 153.1 | 247.6 | -0.6 | 0.554 |
| 4-2550 | 4-2990 | 0.540 | 22.4 | -7.1 | -6.24 | 1.374 | 106.9 | 0.91711 | .138 | 324.5 | 494.7 | 0.922 | --- | 5.38 | 0.558 | 151.5 | 247.7 | -0.1 | 0.516 |
| 4-2550 | 4-3010 | 0.526 | 23.4 | -10.5 | -7.45 | 1.361 | 106.2 | 0.884 | 7.988 | 325.3 | 497.3 | 0.927 | --- | 6.58 | 0.525 | 149.7 | 247.7 | 0.8 | 0.483 |
| 4-2550 | 4-3030 | 0.522 | 25.4 | -15.2 | -9.36 | 1.350 | 105.6 | 0.855 | 6.440 | 326.1 | 499.9 | 0.932 | --- | 8.48 | 0.495 | 147.9 | 247.5 | 2.1 | 0.453 |
| 4-2550 | 4-3050 | 0.536 | 29.7 | -22.6 | -12.79 | 1.340 | 105.0 | 0.831 | 5.526 | 326.7 | 502.3 | 0.936 | --- | 11.90 | 0.468 | 146.0 | 247.0 | 4.4 | 0.428 |
| 4-2550 | 4-3070 | 0.612 | 41.4 | -35.2 | -20.66 | 1.332 | 104.6 | 0.809 | 4.927 | 327.4 | 504.7 | 0.940 | --- | 19.75 | 0.444 | 144.0 | 245.6 | 9.5 | 0.414 |
| 4-2550 | 4-3090 | 1.075 | 87.4 | -45.8 | -51.42 | 1.325 | 104.0 | 0.791 | 4.508 | 328.1 | 506.9 | 0.944 | --- | 50.49 | 0.421 | 142.0 | 236.9 | 22.4 | 0.475 |
| 4-2550 | 4-3110 | 0.895 | 337.7 | 77.8 | 40.49 | 1.319 | 104.0 | 0.775 | 4.201 | 327.8 | 509.2 | 0.943 | --- | -41.43 | 0.401 | 139.9 | 237.8 | -26.2 | 0.428 |
| 4-2550 | 4-3130 | 0.545 | 356.2 | 46.6 | 17.00 | 1.314 | 103.6 | 0.762 | 3.968 | 328.3 | 511.3 | 0.946 | --- | -17.96 | 0.383 | 137.8 | 243.8 | -15.9 | 0.350 |
| 4-2550 | 4-3150 | 0.470 | 1.7 | 32.5 | 10.27 | 1.309 | 103.4 | 0.750 | 3.787 | 328.6 | 513.3 | 0.948 | --- | -11.24 | 0.366 | 135.6 | 244.2 | -11.7 | 0.322 |
| 4-2550 | 4-3170 | 0.442 | 4.4 | 25.0 | 7.18 | 1.305 | 103.2 | 0.740 | 3.644 | 328.8 | 515.3 | 0.949 | --- | -8.17 | 0.351 | 133.3 | 243.8 | -9.6 | 0.303 |
| 4-2550 | 4-3190 | 0.428 | 6.1 | 20.4 | 5.42 | 1.302 | 103.1 | 0.731 | 3.529 | 328.9 | 517.1 | 0.950 | --- | -6.41 | 0.338 | 131.0 | 243.0 | -8.4 | 0.288 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2550 | 4-3210 | 0.419 | 7.3 | 17.3 | 4.28 | 1.299 | 103.0 | 0.723 | 3.435 | 329.0 | 518.9 | 0.951 | --- | -5.29 | 0.325 | 128.7 | 242.1 | -7.6 | 0.274 |
| 4-2550 | 4-3230 | 0.414 | 8.2 | 15.2 | 3.47 | 1.296 | 102.9 | 0.717 | 3.359 | 328.9 | 520.7 | 0.951 | --- | -4.50 | 0.314 | 126.3 | 241.0 | -7.0 | 0.262 |
| 4-2550 | 4-3250 | 0.410 | 9.0 | 13.6 | 2.88 | 1.294 | 102.9 | 0.712 | 3.296 | 328.8 | 522.3 | 0.951 | --- | -3.92 | 0.304 | 123.9 | 239.9 | -6.6 | 0.251 |
| 4-2550 | 4-3270 | 0.408 | 9.7 | 12.3 | 2.42 | 1.292 | 102.9 | 0.707 | 3.243 | 328.7 | 523.9 | 0.950 | --- | -3.48 | 0.295 | 121.4 | 238.7 | -6.2 | 0.242 |
| 4-2550 | 4-3290 | 0.406 | 10.4 | 11.4 | 2.06 | 1.290 | 103.0 | 0.703 | 3.200 | 328.4 | 525.4 | 0.950 | --- | -3.13 | 0.287 | 119.0 | 237.4 | -6.0 | 0.233 |
| 4-2550 | 4-3310 | 0.406 | 11.0 | 10.7 | 1.76 | 1.289 | 103.1 | 0.700 | 3.164 | 328.1 | 526.9 | 0.949 | --- | -2.85 | 0.280 | 116.6 | 236.0 | -5.7 | 0.226 |
| 4-2550 | 4-3330 | 0.406 | 11.7 | 10.1 | 1.52 | 1.288 | 103.2 | 0.698 | 3.134 | 327.8 | 528.3 | 0.947 | --- | -2.61 | 0.274 | 114.1 | 234.6 | -5.5 | 0.220 |
| 4-2550 | 4-3350 | 0.407 | 12.3 | 9.7 | 1.31 | 1.287 | 103.3 | 0.696 | 3.110 | 327.4 | 529.6 | 0.946 | --- | -2.42 | 0.268 | 111.7 | 233.2 | -5.3 | 0.215 |
| 4-2550 | 4-3370 | 0.408 | 13.0 | 9.3 | 1.13 | 1.286 | 103.5 | 0.694 | 3.090 | 326.9 | 530.9 | 0.944 | --- | -2.25 | 0.263 | 109.3 | 231.8 | -5.1 | 0.211 |
| 4-2550 | 4-3390 | 0.410 | 13.7 | 9.1 | 0.97 | 1.285 | 103.7 | 0.693 | 3.074 | 326.4 | 532.1 | 0.942 | --- | -2.11 | 0.259 | 106.9 | 230.4 | -4.9 | 0.207 |
| 4-2550 | 4-3410 | 0.412 | 14.4 | 8.9 | 0.83 | 1.285 | 103.9 | 0.693 | 3.061 | 325.9 | 533.3 | 0.940 | --- | -1.99 | 0.255 | 104.6 | 229.0 | -4.7 | 0.204 |
| 4-2550 | 4-3430 | 0.415 | 15.1 | 8.8 | 0.71 | 1.284 | 104.1 | 0.693 | 3.051 | 325.3 | 534.4 | 0.938 | --- | -1.88 | 0.252 | 102.3 | 227.8 | -4.6 | 0.202 |
| 4-2550 | 4-3450 | 0.418 | 15.9 | 8.7 | 0.60 | 1.284 | 104.4 | 0.693 | 3.044 | 324.6 | 535.5 | 0.935 | --- | -1.78 | 0.250 | 100.0 | 226.5 | -4.4 | 0.201 |
| 4-2550 | 4-3470 | 0.422 | 16.6 | 8.7 | 0.50 | 1.284 | 104.7 | 0.693 | 3.039 | 324.0 | 536.5 | 0.932 | --- | -1.70 | 0.247 | 97.8 | 225.4 | -4.3 | 0.200 |
| 4-2550 | 4-3490 | 0.426 | 17.4 | 8.7 | 0.41 | 1.284 | 104.9 | 0.694 | 3.036 | 323.2 | 537.5 | 0.929 | --- | -1.62 | 0.246 | 95.6 | 224.3 | -4.1 | 0.200 |
| 4-2550 | 4-3510 | 0.430 | 18.2 | 8.7 | 0.33 | 1.284 | 105.3 | 0.695 | 3.034 | 322.5 | 538.5 | 0.926 | --- | -1.56 | 0.244 | 93.5 | 223.4 | -4.0 | 0.200 |
| 4-2550 | 4-3530 | 0.435 | 19.0 | 8.8 | 0.25 | 1.284 | 105.6 | 0.696 | 3.034 | 321.7 | 539.4 | 0.922 | --- | -1.50 | 0.243 | 91.4 | 222.5 | -3.9 | 0.200 |
| 4-2550 | 4-3550 | 0.440 | 19.8 | 8.9 | 0.18 | 1.284 | 105.9 | 0.698 | 3.036 | 320.9 | 540.3 | 0.918 | 5.153 | -1.44 | 0.242 | 89.4 | 221.8 | -3.8 | 0.201 |
| 4-2550 | 4-3570 | 0.445 | 20.6 | 9.0 | 0.12 | 1.284 | 106.3 | 0.699 | 3.038 | 320.0 | 541.1 | 0.914 | 5.162 | -1.39 | 0.242 | 87.5 | 221.1 | -3.7 | 0.203 |
| 4-2550 | 4-3590 | 0.451 | 21.4 | 9.2 | 0.06 | 1.284 | 106.7 | 0.701 | 3.042 | 319.2 | 541.9 | 0.910 | 5.174 | -1.35 | 0.241 | 85.6 | 220.6 | -3.6 | 0.204 |
| 4-2550 | 4-3610 | 0.457 | 22.3 | 9.3 | 0.00 | 1.284 | 107.1 | 0.703 | 3.047 | 318.2 | 542.7 | 0.905 | 5.188 | -1.31 | 0.241 | 83.7 | 220.2 | -3.5 | 0.206 |
| 4-2550 | 4-3630 | 0.463 | 23.1 | 9.5 | -0.05 | 1.285 | 107.5 | 0.705 | 3.052 | 317.3 | 543.4 | 0.901 | 5.204 | -1.27 | 0.242 | 81.9 | 219.9 | -3.4 | 0.208 |
| 4-2550 | 4-3650 | 0.469 | 23.9 | 9.7 | -0.10 | 1.285 | 107.9 | 0.707 | 3.059 | 316.4 | 544.1 | 0.896 | 5.222 | -1.23 | 0.242 | 80.2 | 219.6 | -3.4 | 0.210 |
| 4-2550 | 4-3670 | 0.476 | 24.8 | 9.9 | -0.15 | 1.285 | 108.3 | 0.710 | 3.066 | 315.4 | 544.8 | 0.890 | 5.241 | -1.20 | 0.242 | 78.5 | 219.5 | -3.3 | 0.213 |
| 4-2550 | 4-3690 | 0.483 | 25.6 | 10.1 | -0.19 | 1.285 | 108.8 | 0.712 | 3.073 | 314.4 | 545.5 | 0.885 | 5.262 | -1.17 | 0.243 | 76.9 | 219.5 | -3.2 | 0.215 |
| 4-2550 | 4-3710 | 0.491 | 26.5 | 10.3 | -0.24 | 1.286 | 109.2 | 0.715 | 3.082 | 313.3 | 546.1 | 0.879 | 5.285 | -1.15 | 0.244 | 75.3 | 219.5 | -3.2 | 0.218 |
| 4-2550 | 4-3730 | 0.498 | 27.3 | 10.5 | -0.28 | 1.286 | 109.7 | 0.718 | 3.091 | 312.3 | 546.7 | 0.873 | 5.309 | -1.12 | 0.244 | 73.8 | 219.7 | -3.2 | 0.221 |
| 4-2550 | 4-3750 | 0.506 | 28.2 | 10.8 | -0.32 | 1.287 | 110.2 | 0.720 | 3.100 | 311.2 | 547.3 | 0.867 | 5.334 | -1.10 | 0.245 | 72.3 | 219.9 | -3.1 | 0.224 |
| 4-2550 | 4-3770 | 0.514 | 29.0 | 11.0 | -0.35 | 1.287 | 110.7 | 0.723 | 3.110 | 310.1 | 547.8 | 0.860 | 5.360 | -1.08 | 0.246 | 70.9 | 220.2 | -3.1 | 0.227 |
| 4-2550 | 4-3790 | 0.522 | 29.8 | 11.2 | -0.39 | 1.287 | 111.2 | 0.726 | 3.120 | 309.0 | 548.3 | 0.854 | 5.387 | -1.06 | 0.247 | 69.5 | 220.6 | -3.1 | 0.230 |
| 4-2550 | 4-3810 | 0.531 | 30.7 | 11.5 | -0.42 | 1.288 | 111.7 | 0.730 | 3.131 | 307.9 | 548.8 | 0.847 | 5.415 | -1.05 | 0.249 | 68.1 | 221.0 | -3.0 | 0.233 |
| 4-2550 | 4-3830 | 0.539 | 31.5 | 11.7 | -0.46 | 1.288 | 112.2 | 0.733 | 3.142 | 306.7 | 549.3 | 0.839 | 5.445 | -1.03 | 0.250 | 66.8 | 221.5 | -3.0 | 0.236 |
| 4-2550 | 4-3850 | 0.548 | 32.4 | 11.9 | -0.49 | 1.289 | 112.8 | 0.736 | 3.153 | 305.6 | 549.8 | 0.832 | 5.475 | -1.02 | 0.251 | 65.5 | 222.1 | -3.0 | 0.240 |
| 4-2550 | 4-3870 | 0.557 | 33.2 | 12.2 | -0.52 | 1.289 | 113.3 | 0.740 | 3.165 | 304.4 | 550.2 | 0.824 | 5.506 | -1.00 | 0.252 | 64.3 | 222.7 | -3.0 | 0.243 |
| 4-2550 | 4-3890 | 0.567 | 34.0 | 12.4 | -0.55 | 1.290 | 113.9 | 0.743 | 3.177 | 303.2 | 550.6 | 0.816 | 5.537 | -0.99 | 0.254 | 63.0 | 223.3 | -3.0 | 0.246 |
| 4-2550 | 4-3910 | 0.576 | 34.9 | 12.7 | -0.58 | 1.290 | 114.4 | 0.747 | 3.189 | 302.0 | 551.0 | 0.808 | 5.570 | -0.98 | 0.255 | 61.9 | 224.1 | -3.0 | 0.250 |
| 4-2550 | 4-3930 | 0.586 | 35.7 | 12.9 | -0.61 | 1.290 | 115.0 | 0.750 | 3.201 | 300.7 | 551.4 | 0.799 | 5.603 | -0.97 | 0.256 | 60.7 | 224.8 | -3.0 | 0.253 |
| 4-2550 | 4-3950 | 0.596 | 36.5 | 13.1 | -0.64 | 1.291 | 115.6 | 0.754 | 3.214 | 299.5 | 551.8 | 0.791 | 5.637 | -0.96 | 0.258 | 59.6 | 225.6 | -3.0 | 0.256 |
| 4-2550 | 4-3970 | 0.606 | 37.3 | 13.4 | -0.67 | 1.291 | 116.2 | 0.758 | 3.226 | 298.2 | 552.1 | 0.782 | 5.671 | -0.95 | 0.259 | 58.5 | 226.5 | -3.0 | 0.260 |
| 4-2550 | 4-3990 | 0.617 | 38.1 | 13.6 | -0.70 | 1.292 | 116.8 | 0.762 | 3.239 | 296.9 | 552.4 | 0.772 | 5.707 | -0.94 | 0.261 | 57.4 | 227.4 | -3.0 | 0.263 |
| 4-2550 | 4-4010 | 0.627 | 39.0 | 13.9 | -0.72 | 1.292 | 117.4 | 0.765 | 3.252 | 295.7 | 552.7 | 0.763 | 5.742 | -0.94 | 0.262 | 56.3 | 228.3 | -3.1 | 0.267 |
| 4-2550 | 4-4030 | 0.638 | 39.8 | 14.1 | -0.75 | 1.293 | 118.0 | 0.769 | 3.266 | 294.4 | 553.0 | 0.753 | 5.778 | -0.93 | 0.264 | 55.3 | 229.2 | -3.1 | 0.270 |
| 4-2550 | 4-4050 | 0.649 | 40.6 | 14.3 | -0.77 | 1.293 | 118.6 | 0.773 | 3.279 | 293.0 | 553.3 | 0.743 | 5.815 | -0.93 | 0.265 | 54.3 | 230.2 | -3.1 | 0.274 |
| 4-2550 | 4-4070 | 0.660 | 41.4 | 14.6 | -0.80 | 1.294 | 119.3 | 0.777 | 3.293 | 291.7 | 553.5 | 0.733 | 5.852 | -0.92 | 0.267 | 53.3 | 231.2 | -3.1 | 0.277 |
| 4-2550 | 4-4090 | 0.672 | 42.2 | 14.8 | -0.83 | 1.294 | 119.9 | 0.782 | 3.306 | 290.4 | 553.8 | 0.722 | 5.890 | -0.92 | 0.268 | 52.3 | 232.3 | -3.1 | 0.281 |
| 4-2550 | 4-4110 | 0.683 | 43.0 | 15.0 | -0.85 | 1.295 | 120.6 | 0.786 | 3.320 | 289.0 | 554.0 | 0.711 | 5.928 | -0.92 | 0.270 | 51.3 | 233.4 | -3.1 | 0.284 |
| 4-2550 | 4-4130 | 0.695 | 43.8 | 15.2 | -0.88 | 1.295 | 121.3 | 0.790 | 3.334 | 287.7 | 554.2 | 0.700 | 5.967 | -0.92 | 0.272 | 50.4 | 234.5 | -3.2 | 0.288 |
| 4-2550 | 4-4150 | 0.707 | 44.5 | 15.5 | -0.90 | 1.296 | 121.9 | 0.794 | 3.348 | 286.3 | 554.4 | 0.689 | 6.006 | -0.91 | 0.273 | 49.5 | 235.6 | -3.2 | 0.292 |
| 4-2560 | 4-2900 | 0.627 | 23.5 | 3.8 | -2.50 | 1.477 | 107.9 | 1.193 | -4.794 | 327.3 | 479.7 | 0.926 | --- | 1.61 | 0.782 | 158.5 | 247.8 | -2.2 | 0.739 |
| 4-2560 | 4-2920 | 0.587 | 22.7 | 2.8 | -2.62 | 1.449 | 106.7 | 1.116 | -8.039 | 328.4 | 482.7 | 0.934 | --- | 1.72 | 0.726 | 157.1 | 248.2 | -2.1 | 0.682 |
| 4-2560 | 4-2940 | 0.554 | 22.0 | 1.9 | -2.75 | 1.424 | 105.6 | 1.052 | 18.264 | 329.5 | 485.6 | 0.941 | --- | 1.84 | 0.676 | 155.6 | 248.5 | -2.0 | 0.631 |
| 4-2560 | 4-2960 | 0.525 | 21.3 | 0.8 | -2.91 | 1.404 | 104.7 | 0.997 | 17.503 | 330.5 | 488.4 | 0.948 | --- | 1.98 | 0.631 | 154.0 | 248.7 | -1.9 | 0.586 |
| 4-2560 | 4-2980 | 0.500 | 20.7 | -0.3 | -3.09 | 1.386 | 103.9 | 0.951 | 19.327 | 331.5 | 491.3 | 0.954 | --- | 2.15 | 0.591 | 152.4 | 248.9 | -1.8 | 0.545 |
| 4-2560 | 4-3000 | 0.479 | 20.2 | -1.5 | -3.30 | 1.372 | 103.1 | 0.911 | 10.789 | 332.5 | 494.0 | 0.959 | --- | 2.35 | 0.555 | 150.7 | 248.9 | -1.6 | 0.508 |
| 4-2560 | 4-3020 | 0.461 | 19.7 | -2.8 | -3.56 | 1.359 | 102.5 | 0.877 | 7.851 | 333.3 | 496.6 | 0.963 | --- | 2.60 | 0.523 | 149.0 | 248.9 | -1.4 | 0.475 |
| 4-2560 | 4-3040 | 0.446 | 19.5 | -4.2 | -3.88 | 1.348 | 101.9 | 0.848 | 6.375 | 334.1 | 499.2 | 0.967 | --- | 2.91 | 0.493 | 147.2 | 248.8 | -1.1 | 0.444 |
| 4-2560 | 4-3060 | 0.434 | 19.4 | -5.9 | -4.28 | 1.339 | 101.4 | 0.823 | 5.494 | 334.8 | 501.7 | 0.970 | --- | 3.30 | 0.467 | 145.3 | 248.6 | -0.8 | 0.417 |
| 4-2560 | 4-3080 | 0.424 | 19.6 | -7.9 | -4.81 | 1.331 | 100.9 | 0.802 | 4.913 | 335.4 | 504.1 | 0.972 | --- | 3.81 | 0.443 | 143.3 | 248.3 | -0.3 | 0.392 |
| 4-2560 | 4-3100 | 0.418 | 20.1 | -10.4 | -5.53 | 1.324 | 100.5 | 0.784 | 4.504 | 336.0 | 506.5 | 0.975 | --- | 4.52 | 0.421 | 141.3 | 247.9 | 0.4 | 0.369 |
| 4-2560 | 4-3120 | 0.415 | 21.3 | -13.7 | -6.58 | 1.318 | 100.2 | 0.768 | 4.203 | 336.4 | 508.7 | 0.977 | --- | 5.56 | 0.401 | 139.2 | 247.4 | 1.3 | 0.349 |
| 4-2560 | 4-3140 | 0.420 | 23.5 | -18.5 | -8.25 | 1.312 | 100.0 | 0.754 | 3.975 | 336.8 | 510.8 | 0.978 | --- | 7.21 | 0.383 | 137.1 | 246.7 | 2.9 | 0.331 |
| 4-2560 | 4-3160 | 0.441 | 28.2 | -26.2 | -11.31 | 1.308 | 99.7 | 0.742 | 3.797 | 337.1 | 512.9 | 0.979 | --- | 10.26 | 0.367 | 134.9 | 245.8 | 5.6 | 0.317 |
| 4-2560 | 4-3180 | 0.524 | 40.9 | -39.7 | -18.70 | 1.304 | 99.6 | 0.732 | 3.656 | 337.3 | 514.9 | 0.980 | --- | 17.65 | 0.352 | 132.6 | 244.0 | 11.8 | 0.313 |
| 4-2560 | 4-3200 | 1.080 | 99.3 | -50.2 | -53.60 | 1.301 | 99.3 | 0.723 | 3.542 | 337.7 | 516.8 | 0.982 | --- | 52.53 | 0.339 | 130.3 | 233.7 | 27.3 | 0.413 |
| 4-2560 | 4-3220 | 0.702 | 329.1 | 71.0 | 30.83 | 1.298 | 99.5 | 0.716 | 3.450 | 337.2 | 518.6 | 0.980 | --- | -31.91 | 0.327 | 128.1 | 237.6 | -27.1 | 0.327 |
| 4-2560 | 4-3240 | 0.446 | 354.9 | 42.6 | 13.04 | 1.295 | 99.4 | 0.709 | 3.374 | 337.3 | 520.3 | 0.981 | --- | -14.13 | 0.316 | 125.7 | 240.9 | -16.1 | 0.270 |
| 4-2560 | 4-3260 | 0.395 | 1.3 | 29.4 | 7.88 | 1.293 | 99.4 | 0.704 | 3.312 | 337.2 | 522.0 | 0.981 | --- | -8.98 | 0.306 | 123.4 | 240.5 | -11.8 | 0.252 |
| 4-2560 | 4-3280 | 0.378 | 4.6 | 22.5 | 5.46 | 1.291 | 99.4 | 0.699 | 3.260 | 337.1 | 523.6 | 0.980 | --- | -6.58 | 0.297 | 121.0 | 239.5 | -9.6 | 0.240 |
| 4-2560 | 4-3300 | 0.370 | 6.7 | 18.3 | 4.07 | 1.290 | 99.5 | 0.695 | 3.217 | 336.9 | 525.1 | 0.980 | --- | -5.19 | 0.290 | 118.6 | 238.4 | -8.3 | 0.231 |
| 4-2560 | 4-3320 | 0.367 | 8.2 | 15.5 | 3.16 | 1.288 | 99.6 | 0.692 | 3.182 | 336.6 | 526.6 | 0.979 | --- | -4.29 | 0.283 | 116.2 | 237.1 | -7.4 | 0.224 |
| 4-2560 | 4-3340 | 0.365 | 9.5 | 13.6 | 2.52 | 1.287 | 99.7 | 0.690 | 3.153 | 336.2 | 528.0 | 0.978 | --- | -3.66 | 0.277 | 113.8 | 235.7 | -6.8 | 0.217 |
| 4-2560 | 4-3360 | 0.365 | 10.6 | 12.3 | 2.04 | 1.286 | 99.8 | 0.688 | 3.129 | 335.8 | 529.3 | 0.977 | --- | -3.20 | 0.271 | 111.4 | 234.3 | -6.3 | 0.212 |
| 4-2560 | 4-3380 | 0.365 | 11.6 | 11.3 | 1.67 | 1.285 | 100.0 | 0.686 | 3.109 | 335.4 | 530.6 | 0.976 | --- | -2.84 | 0.267 | 109.1 | 233.0 | -5.9 | 0.208 |
| 4-2560 | 4-3400 | 0.366 | 12.6 | 10.6 | 1.38 | 1.285 | 100.2 | 0.685 | 3.093 | 334.9 | 531.8 | 0.974 | --- | -2.56 | 0.262 | 106.8 | 231.6 | -5.6 | 0.204 |
| 4-2560 | 4-3420 | 0.368 | 13.6 | 10.0 | 1.14 | 1.284 | 100.4 | 0.684 | 3.081 | 334.4 | 533.0 | 0.973 | --- | -2.33 | 0.259 | 104.5 | 230.3 | -5.3 | 0.201 |
| 4-2560 | 4-3440 | 0.370 | 14.5 | 9.7 | 0.94 | 1.284 | 100.6 | 0.684 | 3.071 | 333.8 | 534.2 | 0.971 | --- | -2.14 | 0.256 | 102.3 | 229.0 | -5.0 | 0.199 |
| 4-2560 | 4-3460 | 0.372 | 15.5 | 9.4 | 0.76 | 1.284 | 100.9 | 0.684 | 3.064 | 333.1 | 535.2 | 0.969 | --- | -1.98 | 0.253 | 100.1 | 227.8 | -4.8 | 0.197 |
| 4-2560 | 4-3480 | 0.375 | 16.4 | 9.2 | 0.62 | 1.283 | 101.1 | 0.684 | 3.059 | 332.5 | 536.3 | 0.967 | --- | -1.85 | 0.251 | 97.9 | 226.7 | -4.6 | 0.196 |
| 4-2560 | 4-3500 | 0.379 | 17.4 | 9.1 | 0.49 | 1.283 | 101.4 | 0.684 | 3.056 | 331.8 | 537.3 | 0.964 | --- | -1.73 | 0.250 | 95.9 | 225.6 | -4.4 | 0.196 |
| 4-2560 | 4-3520 | 0.382 | 18.3 | 9.1 | 0.38 | 1.283 | 101.7 | 0.685 | 3.054 | 331.0 | 538.2 | 0.962 | --- | -1.63 | 0.248 | 93.8 | 224.6 | -4.2 | 0.196 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2560 | 4-3540 | 0.386 | 19.3 | 9.1 | 0.28 | 1.283 | 102.0 | 0.686 | 3.055 | 330.3 | 539.2 | 0.959 | --- | -1.54 | 0.247 | 91.8 | 223.8 | -4.1 | 0.196 |
| 4-2560 | 4-3560 | 0.390 | 20.3 | 9.2 | 0.19 | 1.283 | 102.4 | 0.687 | 3.056 | 329.4 | 540.1 | 0.956 | 5.156 | -1.46 | 0.246 | 89.9 | 223.0 | -3.9 | 0.197 |
| 4-2560 | 4-3580 | 0.395 | 21.2 | 9.3 | 0.11 | 1.283 | 102.7 | 0.689 | 3.059 | 328.6 | 540.9 | 0.953 | 5.165 | -1.40 | 0.246 | 88.0 | 222.4 | -3.8 | 0.198 |
| 4-2560 | 4-3600 | 0.400 | 22.2 | 9.4 | 0.03 | 1.284 | 103.1 | 0.690 | 3.063 | 327.7 | 541.7 | 0.949 | 5.176 | -1.33 | 0.246 | 86.2 | 221.8 | -3.7 | 0.199 |
| 4-2560 | 4-3620 | 0.405 | 23.2 | 9.6 | -0.03 | 1.284 | 103.5 | 0.692 | 3.068 | 326.8 | 542.5 | 0.946 | 5.189 | -1.28 | 0.245 | 84.4 | 221.4 | -3.6 | 0.201 |
| 4-2560 | 4-3640 | 0.410 | 24.2 | 9.8 | -0.09 | 1.284 | 103.9 | 0.693 | 3.073 | 325.9 | 543.3 | 0.942 | 5.204 | -1.23 | 0.246 | 82.7 | 221.1 | -3.5 | 0.203 |
| 4-2560 | 4-3660 | 0.416 | 25.2 | 10.0 | -0.15 | 1.284 | 104.3 | 0.695 | 3.080 | 325.0 | 544.0 | 0.938 | 5.221 | -1.18 | 0.246 | 81.1 | 220.8 | -3.4 | 0.205 |
| 4-2560 | 4-3680 | 0.422 | 26.1 | 10.2 | -0.20 | 1.285 | 104.7 | 0.697 | 3.087 | 324.0 | 544.7 | 0.934 | 5.240 | -1.14 | 0.246 | 79.4 | 220.7 | -3.3 | 0.207 |
| 4-2560 | 4-3700 | 0.428 | 27.1 | 10.4 | -0.25 | 1.285 | 105.1 | 0.700 | 3.095 | 323.0 | 545.3 | 0.929 | 5.260 | -1.11 | 0.247 | 77.9 | 220.6 | -3.3 | 0.209 |
| 4-2560 | 4-3720 | 0.435 | 28.1 | 10.6 | -0.30 | 1.285 | 105.5 | 0.702 | 3.103 | 322.0 | 546.0 | 0.925 | 5.282 | -1.07 | 0.248 | 76.4 | 220.7 | -3.2 | 0.212 |
| 4-2560 | 4-3740 | 0.441 | 29.1 | 10.9 | -0.34 | 1.286 | 106.0 | 0.704 | 3.112 | 321.0 | 546.6 | 0.920 | 5.304 | -1.04 | 0.248 | 74.9 | 220.8 | -3.2 | 0.214 |
| 4-2560 | 4-3760 | 0.448 | 30.1 | 11.1 | -0.38 | 1.286 | 106.5 | 0.707 | 3.122 | 319.9 | 547.2 | 0.915 | 5.328 | -1.02 | 0.249 | 73.5 | 221.0 | -3.1 | 0.217 |
| 4-2560 | 4-3780 | 0.455 | 31.1 | 11.4 | -0.42 | 1.286 | 106.9 | 0.710 | 3.131 | 318.9 | 547.8 | 0.909 | 5.353 | -0.99 | 0.250 | 72.1 | 221.3 | -3.1 | 0.220 |
| 4-2560 | 4-3800 | 0.463 | 32.0 | 11.7 | -0.46 | 1.287 | 107.4 | 0.712 | 3.142 | 317.8 | 548.3 | 0.904 | 5.380 | -0.97 | 0.251 | 70.8 | 221.6 | -3.1 | 0.223 |
| 4-2560 | 4-3820 | 0.470 | 33.0 | 11.9 | -0.49 | 1.287 | 107.9 | 0.715 | 3.152 | 316.7 | 548.8 | 0.898 | 5.407 | -0.94 | 0.252 | 69.5 | 222.0 | -3.0 | 0.226 |
| 4-2560 | 4-3840 | 0.478 | 34.0 | 12.2 | -0.53 | 1.288 | 108.4 | 0.718 | 3.163 | 315.5 | 549.3 | 0.892 | 5.435 | -0.92 | 0.254 | 68.2 | 222.5 | -3.0 | 0.229 |
| 4-2560 | 4-3860 | 0.486 | 34.9 | 12.5 | -0.56 | 1.288 | 108.9 | 0.721 | 3.175 | 314.4 | 549.8 | 0.886 | 5.464 | -0.91 | 0.255 | 67.0 | 223.0 | -3.0 | 0.232 |
| 4-2560 | 4-3880 | 0.495 | 35.9 | 12.7 | -0.59 | 1.288 | 109.4 | 0.724 | 3.186 | 313.2 | 550.3 | 0.879 | 5.493 | -0.89 | 0.256 | 65.8 | 223.6 | -3.0 | 0.235 |
| 4-2560 | 4-3900 | 0.503 | 36.8 | 13.0 | -0.62 | 1.289 | 110.0 | 0.727 | 3.198 | 312.1 | 550.7 | 0.872 | 5.524 | -0.87 | 0.257 | 64.7 | 224.3 | -3.0 | 0.238 |
| 4-2560 | 4-3920 | 0.512 | 37.7 | 13.3 | -0.65 | 1.289 | 110.5 | 0.730 | 3.210 | 310.9 | 551.1 | 0.865 | 5.555 | -0.86 | 0.259 | 63.5 | 224.9 | -3.0 | 0.241 |
| 4-2560 | 4-3940 | 0.521 | 38.7 | 13.5 | -0.67 | 1.290 | 111.0 | 0.734 | 3.223 | 309.7 | 551.5 | 0.858 | 5.587 | -0.85 | 0.260 | 62.4 | 225.7 | -3.0 | 0.244 |
| 4-2560 | 4-3960 | 0.530 | 39.6 | 13.8 | -0.70 | 1.290 | 111.6 | 0.737 | 3.235 | 308.5 | 551.9 | 0.851 | 5.619 | -0.83 | 0.261 | 61.4 | 226.5 | -3.0 | 0.247 |
| 4-2560 | 4-3980 | 0.539 | 40.5 | 14.0 | -0.73 | 1.291 | 112.2 | 0.740 | 3.248 | 307.2 | 552.3 | 0.843 | 5.653 | -0.82 | 0.263 | 60.3 | 227.3 | -3.0 | 0.250 |
| 4-2560 | 4-4000 | 0.549 | 41.4 | 14.3 | -0.75 | 1.291 | 112.7 | 0.744 | 3.261 | 306.0 | 552.6 | 0.835 | 5.686 | -0.81 | 0.264 | 59.3 | 228.1 | -3.0 | 0.254 |
| 4-2560 | 4-4020 | 0.558 | 42.3 | 14.6 | -0.77 | 1.292 | 113.3 | 0.747 | 3.274 | 304.7 | 553.0 | 0.827 | 5.721 | -0.80 | 0.266 | 58.3 | 229.0 | -3.0 | 0.257 |
| 4-2560 | 4-4040 | 0.568 | 43.2 | 14.8 | -0.80 | 1.292 | 113.9 | 0.751 | 3.287 | 303.5 | 553.3 | 0.818 | 5.755 | -0.79 | 0.267 | 57.3 | 230.0 | -3.0 | 0.260 |
| 4-2560 | 4-4060 | 0.578 | 44.1 | 15.1 | -0.82 | 1.293 | 114.5 | 0.755 | 3.300 | 302.2 | 553.6 | 0.810 | 5.791 | -0.79 | 0.269 | 56.3 | 230.9 | -3.0 | 0.263 |
| 4-2560 | 4-4080 | 0.588 | 45.0 | 15.3 | -0.84 | 1.293 | 115.1 | 0.758 | 3.314 | 300.9 | 553.9 | 0.801 | 5.827 | -0.78 | 0.270 | 55.4 | 231.9 | -3.1 | 0.267 |
| 4-2560 | 4-4100 | 0.599 | 45.9 | 15.5 | -0.87 | 1.294 | 115.7 | 0.762 | 3.327 | 299.6 | 554.2 | 0.791 | 5.863 | -0.77 | 0.272 | 54.5 | 232.9 | -3.1 | 0.270 |
| 4-2560 | 4-4120 | 0.610 | 46.8 | 15.8 | -0.89 | 1.294 | 116.3 | 0.766 | 3.341 | 298.3 | 554.4 | 0.782 | 5.900 | -0.77 | 0.273 | 53.6 | 234.0 | -3.1 | 0.273 |
| 4-2560 | 4-4140 | 0.620 | 47.7 | 16.0 | -0.91 | 1.295 | 117.0 | 0.770 | 3.354 | 296.9 | 554.7 | 0.772 | 5.937 | -0.76 | 0.275 | 52.7 | 235.0 | -3.1 | 0.276 |
| 4-2560 | 4-4160 | 0.631 | 48.5 | 16.2 | -0.93 | 1.295 | 117.6 | 0.774 | 3.368 | 295.6 | 554.9 | 0.762 | 5.974 | -0.76 | 0.276 | 51.8 | 236.1 | -3.1 | 0.280 |
| 4-2570 | 4-2890 | 0.612 | 24.3 | 5.3 | -1.89 | 1.505 | 104.7 | 1.282 | -3.393 | 334.0 | 475.9 | 0.957 | --- | 0.90 | 0.835 | 159.1 | 248.6 | -2.5 | 0.789 |
| 4-2570 | 4-2910 | 0.569 | 23.2 | 4.4 | -1.94 | 1.472 | 103.5 | 1.188 | -5.129 | 335.2 | 479.0 | 0.964 | --- | 0.94 | 0.773 | 157.8 | 249.0 | -2.5 | 0.726 |
| 4-2570 | 4-2930 | 0.532 | 22.0 | 3.5 | -1.99 | 1.444 | 102.4 | 1.110 | -8.841 | 336.4 | 482.0 | 0.970 | --- | 0.99 | 0.718 | 156.4 | 249.3 | -2.4 | 0.670 |
| 4-2570 | 4-2950 | 0.501 | 20.9 | 2.6 | -2.05 | 1.420 | 101.4 | 1.044 | 22.032 | 337.6 | 485.0 | 0.976 | --- | 1.03 | 0.669 | 154.9 | 249.5 | -2.4 | 0.620 |
| 4-2570 | 4-2970 | 0.474 | 19.8 | 1.7 | -2.12 | 1.400 | 100.6 | 0.989 | 91.245 | 338.7 | 488.0 | 0.980 | --- | 1.09 | 0.625 | 153.3 | 249.7 | -2.3 | 0.576 |
| 4-2570 | 4-2990 | 0.451 | 18.8 | 0.8 | -2.19 | 1.383 | 99.8 | 0.943 | 17.173 | 339.8 | 490.8 | 0.985 | --- | 1.15 | 0.586 | 151.7 | 249.9 | -2.3 | 0.535 |
| 4-2570 | 4-3010 | 0.432 | 17.8 | -0.1 | -2.27 | 1.369 | 99.1 | 0.903 | 10.196 | 340.8 | 493.6 | 0.988 | --- | 1.22 | 0.550 | 150.0 | 249.9 | -2.2 | 0.499 |
| 4-2570 | 4-3030 | 0.415 | 17.0 | -1.0 | -2.36 | 1.356 | 98.5 | 0.869 | 7.586 | 341.7 | 496.4 | 0.991 | --- | 1.30 | 0.518 | 148.3 | 249.9 | -2.1 | 0.466 |
| 4-2570 | 4-3050 | 0.401 | 16.2 | -2.0 | -2.46 | 1.346 | 98.0 | 0.841 | 6.230 | 342.5 | 499.0 | 0.993 | --- | 1.39 | 0.489 | 146.5 | 249.7 | -2.0 | 0.436 |
| 4-2570 | 4-3070 | 0.389 | 15.5 | -2.9 | -2.58 | 1.336 | 97.5 | 0.816 | 5.406 | 343.3 | 501.5 | 0.996 | --- | 1.50 | 0.463 | 144.6 | 249.5 | -1.9 | 0.409 |
| 4-2570 | 4-3090 | 0.379 | 15.0 | -3.9 | -2.71 | 1.329 | 97.1 | 0.795 | 4.856 | 343.9 | 504.0 | 0.997 | --- | 1.63 | 0.440 | 142.6 | 249.2 | -1.7 | 0.385 |
| 4-2570 | 4-3110 | 0.370 | 14.6 | -4.9 | -2.88 | 1.322 | 96.8 | 0.776 | 4.466 | 344.5 | 506.3 | 0.999 | --- | 1.79 | 0.418 | 140.6 | 248.8 | -1.5 | 0.362 |
| 4-2570 | 4-3130 | 0.363 | 14.3 | -6.0 | -3.07 | 1.316 | 96.5 | 0.761 | 4.178 | 345.0 | 508.6 | 1.000 | --- | 1.97 | 0.399 | 138.5 | 248.3 | -1.3 | 0.342 |
| 4-2570 | 4-3150 | 0.358 | 14.3 | -7.1 | -3.32 | 1.311 | 96.3 | 0.747 | 3.958 | 345.4 | 510.8 | 1.001 | --- | 2.21 | 0.381 | 136.4 | 247.7 | -1.0 | 0.323 |
| 4-2570 | 4-3170 | 0.353 | 14.4 | -8.4 | -3.63 | 1.306 | 96.1 | 0.736 | 3.787 | 345.7 | 512.8 | 1.001 | --- | 2.51 | 0.366 | 134.2 | 247.0 | -0.7 | 0.306 |
| 4-2570 | 4-3190 | 0.351 | 14.8 | -10.0 | -4.03 | 1.303 | 95.9 | 0.726 | 3.650 | 345.9 | 514.8 | 1.002 | --- | 2.91 | 0.351 | 132.0 | 246.1 | -0.2 | 0.291 |
| 4-2570 | 4-3210 | 0.350 | 15.6 | -12.0 | -4.59 | 1.299 | 95.8 | 0.717 | 3.540 | 346.0 | 516.7 | 1.002 | --- | 3.45 | 0.338 | 129.7 | 245.2 | 0.5 | 0.277 |
| 4-2570 | 4-3230 | 0.351 | 16.9 | -14.8 | -5.40 | 1.297 | 95.8 | 0.710 | 3.451 | 346.1 | 518.5 | 1.002 | --- | 4.26 | 0.327 | 127.4 | 244.2 | 1.4 | 0.265 |
| 4-2570 | 4-3250 | 0.357 | 19.2 | -18.9 | -6.70 | 1.294 | 95.8 | 0.703 | 3.378 | 346.1 | 520.3 | 1.002 | --- | 5.55 | 0.316 | 125.1 | 243.1 | 2.9 | 0.255 |
| 4-2570 | 4-3270 | 0.376 | 23.5 | -25.9 | -9.13 | 1.292 | 95.8 | 0.698 | 3.317 | 346.0 | 522.0 | 1.002 | --- | 7.97 | 0.307 | 122.7 | 241.8 | 5.6 | 0.247 |
| 4-2570 | 4-3290 | 0.444 | 34.8 | -39.6 | -15.22 | 1.290 | 95.8 | 0.693 | 3.267 | 345.8 | 523.6 | 1.002 | --- | 14.05 | 0.298 | 120.4 | 240.0 | 11.9 | 0.248 |
| 4-2570 | 4-3310 | 1.016 | 103.2 | -55.7 | -50.65 | 1.289 | 95.8 | 0.689 | 3.226 | 345.8 | 525.1 | 1.002 | --- | 49.47 | 0.291 | 118.0 | 231.8 | 30.1 | 0.363 |
| 4-2570 | 4-3330 | 0.547 | 333.1 | 62.1 | 22.50 | 1.287 | 96.0 | 0.686 | 3.192 | 345.1 | 526.5 | 1.001 | --- | -23.68 | 0.284 | 115.7 | 234.8 | -25.8 | 0.260 |
| 4-2570 | 4-3350 | 0.375 | 356.2 | 35.3 | 9.29 | 1.286 | 96.1 | 0.684 | 3.163 | 344.9 | 527.9 | 1.001 | --- | -10.48 | 0.278 | 113.3 | 235.8 | -14.6 | 0.222 |
| 4-2570 | 4-3370 | 0.345 | 2.5 | 23.8 | 5.49 | 1.285 | 96.3 | 0.682 | 3.140 | 344.5 | 529.3 | 1.000 | --- | -6.70 | 0.273 | 111.0 | 234.8 | -10.6 | 0.212 |
| 4-2570 | 4-3390 | 0.336 | 5.8 | 18.0 | 3.71 | 1.285 | 96.4 | 0.680 | 3.121 | 344.0 | 530.6 | 0.999 | --- | -4.92 | 0.268 | 108.7 | 233.6 | -8.5 | 0.206 |
| 4-2570 | 4-3410 | 0.334 | 8.0 | 14.7 | 2.67 | 1.284 | 96.6 | 0.679 | 3.106 | 343.6 | 531.8 | 0.998 | --- | -3.89 | 0.264 | 106.5 | 232.3 | -7.3 | 0.202 |
| 4-2570 | 4-3430 | 0.333 | 9.8 | 12.6 | 2.00 | 1.284 | 96.9 | 0.678 | 3.094 | 343.0 | 533.0 | 0.997 | --- | -3.23 | 0.261 | 104.3 | 231.1 | -6.5 | 0.199 |
| 4-2570 | 4-3450 | 0.334 | 11.3 | 11.2 | 1.52 | 1.283 | 97.1 | 0.677 | 3.085 | 342.4 | 534.1 | 0.996 | --- | -2.76 | 0.258 | 102.1 | 229.8 | -5.9 | 0.196 |
| 4-2570 | 4-3470 | 0.335 | 12.7 | 10.2 | 1.16 | 1.283 | 97.3 | 0.677 | 3.078 | 341.8 | 535.2 | 0.994 | --- | -2.41 | 0.256 | 99.9 | 228.6 | -5.4 | 0.195 |
| 4-2570 | 4-3490 | 0.337 | 14.0 | 9.6 | 0.89 | 1.283 | 97.6 | 0.677 | 3.074 | 341.1 | 536.2 | 0.993 | --- | -2.14 | 0.254 | 97.9 | 227.5 | -5.0 | 0.193 |
| 4-2570 | 4-3510 | 0.340 | 15.3 | 9.2 | 0.67 | 1.283 | 97.9 | 0.677 | 3.071 | 340.4 | 537.2 | 0.991 | --- | -1.93 | 0.252 | 95.8 | 226.5 | -4.7 | 0.193 |
| 4-2570 | 4-3530 | 0.342 | 16.5 | 9.0 | 0.49 | 1.283 | 98.2 | 0.678 | 3.070 | 339.7 | 538.2 | 0.989 | --- | -1.76 | 0.251 | 93.9 | 225.6 | -4.5 | 0.193 |
| 4-2570 | 4-3550 | 0.345 | 17.7 | 8.8 | 0.33 | 1.283 | 98.5 | 0.678 | 3.071 | 338.9 | 539.1 | 0.987 | --- | -1.61 | 0.250 | 91.9 | 224.7 | -4.3 | 0.193 |
| 4-2570 | 4-3570 | 0.349 | 18.9 | 8.8 | 0.21 | 1.283 | 98.8 | 0.679 | 3.073 | 338.1 | 540.0 | 0.985 | --- | -1.50 | 0.249 | 90.1 | 224.0 | -4.1 | 0.194 |
| 4-2570 | 4-3590 | 0.352 | 20.1 | 8.8 | 0.10 | 1.283 | 99.2 | 0.680 | 3.076 | 337.3 | 540.8 | 0.983 | 5.168 | -1.39 | 0.249 | 88.3 | 223.4 | -3.9 | 0.194 |
| 4-2570 | 4-3610 | 0.356 | 21.3 | 8.9 | 0.00 | 1.283 | 99.5 | 0.682 | 3.080 | 336.4 | 541.6 | 0.980 | 5.179 | -1.31 | 0.249 | 86.5 | 222.8 | -3.7 | 0.196 |
| 4-2570 | 4-3630 | 0.360 | 22.5 | 9.1 | -0.08 | 1.283 | 99.9 | 0.683 | 3.085 | 335.5 | 542.4 | 0.978 | 5.192 | -1.23 | 0.249 | 84.8 | 222.4 | -3.6 | 0.197 |
| 4-2570 | 4-3650 | 0.365 | 23.6 | 9.3 | -0.16 | 1.284 | 100.3 | 0.685 | 3.091 | 334.6 | 543.2 | 0.975 | 5.206 | -1.16 | 0.249 | 83.2 | 222.1 | -3.5 | 0.199 |
| 4-2570 | 4-3670 | 0.370 | 24.8 | 9.5 | -0.23 | 1.284 | 100.7 | 0.686 | 3.097 | 333.7 | 543.9 | 0.972 | 5.223 | -1.11 | 0.249 | 81.6 | 221.8 | -3.4 | 0.201 |
| 4-2570 | 4-3690 | 0.375 | 26.0 | 9.7 | -0.29 | 1.284 | 101.1 | 0.688 | 3.105 | 332.7 | 544.6 | 0.969 | 5.241 | -1.05 | 0.250 | 80.0 | 221.7 | -3.3 | 0.203 |
| 4-2570 | 4-3710 | 0.380 | 27.1 | 10.0 | -0.34 | 1.284 | 101.5 | 0.690 | 3.113 | 331.7 | 545.3 | 0.965 | 5.260 | -1.01 | 0.250 | 78.5 | 221.6 | -3.2 | 0.205 |
| 4-2570 | 4-3730 | 0.385 | 28.3 | 10.3 | -0.39 | 1.285 | 101.9 | 0.692 | 3.121 | 330.7 | 545.9 | 0.962 | 5.281 | -0.97 | 0.251 | 77.1 | 221.7 | -3.2 | 0.207 |
| 4-2570 | 4-3750 | 0.391 | 29.5 | 10.5 | -0.44 | 1.285 | 102.4 | 0.694 | 3.131 | 329.7 | 546.6 | 0.958 | 5.303 | -0.93 | 0.252 | 75.7 | 221.8 | -3.1 | 0.210 |
| 4-2570 | 4-3770 | 0.397 | 30.6 | 10.8 | -0.48 | 1.285 | 102.8 | 0.696 | 3.140 | 328.7 | 547.2 | 0.954 | 5.326 | -0.89 | 0.252 | 74.3 | 222.0 | -3.1 | 0.212 |
| 4-2570 | 4-3790 | 0.403 | 31.8 | 11.1 | -0.52 | 1.286 | 103.2 | 0.698 | 3.150 | 327.6 | 547.7 | 0.950 | 5.351 | -0.86 | 0.253 | 73.0 | 222.2 | -3.0 | 0.215 |
| 4-2570 | 4-3810 | 0.410 | 32.9 | 11.5 | -0.56 | 1.286 | 103.7 | 0.701 | 3.161 | 326.5 | 548.3 | 0.945 | 5.376 | -0.84 | 0.254 | 71.7 | 222.6 | -3.0 | 0.217 |
| 4-2570 | 4-3830 | 0.416 | 34.0 | 11.8 | -0.59 | 1.287 | 104.2 | 0.703 | 3.171 | 325.4 | 548.8 | 0.941 | 5.402 | -0.81 | 0.256 | 70.5 | 223.0 | -3.0 | 0.220 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2570 | 4-3850 | 0.423 | 35.2 | 12.1 | -0.62 | 1.287 | 104.7 | 0.706 | 3.183 | 324.3 | 549.3 | 0.936 | 5.429 | -0.79 | 0.257 | 69.3 | 223.4 | -3.0 | 0.223 |
| 4-2570 | 4-3870 | 0.430 | 36.3 | 12.4 | -0.66 | 1.288 | 105.2 | 0.709 | 3.194 | 323.2 | 549.8 | 0.931 | 5.457 | -0.77 | 0.258 | 68.1 | 223.9 | -2.9 | 0.225 |
| 4-2570 | 4-3890 | 0.437 | 37.4 | 12.7 | -0.68 | 1.288 | 105.7 | 0.711 | 3.206 | 322.1 | 550.3 | 0.926 | 5.486 | -0.75 | 0.259 | 67.0 | 224.5 | -2.9 | 0.228 |
| 4-2570 | 4-3910 | 0.445 | 38.5 | 13.0 | -0.71 | 1.288 | 106.2 | 0.714 | 3.218 | 320.9 | 550.8 | 0.920 | 5.515 | -0.73 | 0.260 | 65.9 | 225.1 | -2.9 | 0.231 |
| 4-2570 | 4-3930 | 0.453 | 39.6 | 13.3 | -0.74 | 1.289 | 106.7 | 0.717 | 3.230 | 319.7 | 551.2 | 0.914 | 5.545 | -0.71 | 0.262 | 64.8 | 225.8 | -2.9 | 0.234 |
| 4-2570 | 4-3950 | 0.461 | 40.7 | 13.6 | -0.76 | 1.289 | 107.2 | 0.720 | 3.242 | 318.6 | 551.6 | 0.908 | 5.576 | -0.70 | 0.263 | 63.8 | 226.5 | -2.9 | 0.237 |
| 4-2570 | 4-3970 | 0.469 | 41.7 | 13.9 | -0.79 | 1.290 | 107.7 | 0.723 | 3.255 | 317.4 | 552.1 | 0.902 | 5.607 | -0.68 | 0.264 | 62.8 | 227.3 | -2.9 | 0.240 |
| 4-2570 | 4-3990 | 0.477 | 42.8 | 14.2 | -0.81 | 1.290 | 108.3 | 0.726 | 3.267 | 316.2 | 552.4 | 0.896 | 5.639 | -0.67 | 0.266 | 61.8 | 228.1 | -2.9 | 0.243 |
| 4-2570 | 4-4010 | 0.486 | 43.8 | 14.5 | -0.83 | 1.291 | 108.8 | 0.729 | 3.280 | 314.9 | 552.8 | 0.889 | 5.671 | -0.66 | 0.267 | 60.8 | 228.9 | -2.9 | 0.246 |
| 4-2570 | 4-4030 | 0.494 | 44.9 | 14.8 | -0.85 | 1.291 | 109.4 | 0.732 | 3.293 | 313.7 | 553.2 | 0.882 | 5.704 | -0.65 | 0.269 | 59.8 | 229.8 | -2.9 | 0.249 |
| 4-2570 | 4-4050 | 0.503 | 45.9 | 15.1 | -0.87 | 1.292 | 109.9 | 0.735 | 3.307 | 312.5 | 553.5 | 0.875 | 5.738 | -0.64 | 0.270 | 58.9 | 230.7 | -3.0 | 0.252 |
| 4-2570 | 4-4070 | 0.513 | 46.9 | 15.4 | -0.89 | 1.292 | 110.5 | 0.739 | 3.320 | 311.2 | 553.8 | 0.868 | 5.772 | -0.63 | 0.272 | 58.0 | 231.6 | -3.0 | 0.255 |
| 4-2570 | 4-4090 | 0.522 | 47.9 | 15.7 | -0.91 | 1.293 | 111.1 | 0.742 | 3.333 | 309.9 | 554.2 | 0.860 | 5.806 | -0.62 | 0.273 | 57.1 | 232.6 | -3.0 | 0.258 |
| 4-2570 | 4-4110 | 0.531 | 48.9 | 15.9 | -0.93 | 1.293 | 111.7 | 0.745 | 3.347 | 308.7 | 554.5 | 0.852 | 5.841 | -0.61 | 0.274 | 56.2 | 233.6 | -3.0 | 0.261 |
| 4-2570 | 4-4130 | 0.541 | 49.9 | 16.2 | -0.95 | 1.294 | 112.2 | 0.749 | 3.360 | 307.4 | 554.7 | 0.844 | 5.877 | -0.60 | 0.276 | 55.4 | 234.6 | -3.0 | 0.264 |
| 4-2570 | 4-4150 | 0.551 | 50.9 | 16.4 | -0.97 | 1.294 | 112.8 | 0.752 | 3.374 | 306.1 | 555.0 | 0.836 | 5.912 | -0.60 | 0.277 | 54.5 | 235.6 | -3.0 | 0.267 |
| 4-2570 | 4-4170 | 0.561 | 51.8 | 16.7 | -0.98 | 1.295 | 113.5 | 0.756 | 3.388 | 304.8 | 555.3 | 0.827 | 5.949 | -0.59 | 0.279 | 53.7 | 236.7 | -3.1 | 0.270 |
| 4-2580 | 4-2880 | 0.605 | 24.0 | 5.8 | -1.57 | 1.537 | 101.1 | 1.386 | -2.549 | 340.9 | 472.4 | 0.983 | --- | 0.47 | 0.892 | 159.8 | 249.2 | -2.7 | 0.842 |
| 4-2580 | 4-2900 | 0.558 | 22.5 | 4.9 | -1.59 | 1.497 | 99.9 | 1.271 | -3.655 | 342.2 | 475.6 | 0.989 | --- | 0.49 | 0.822 | 158.5 | 249.6 | -2.7 | 0.772 |
| 4-2580 | 4-2920 | 0.519 | 21.0 | 4.0 | -1.61 | 1.465 | 98.9 | 1.176 | -5.642 | 343.6 | 478.7 | 0.994 | --- | 0.50 | 0.761 | 157.1 | 249.9 | -2.7 | 0.711 |
| 4-2580 | 4-2940 | 0.486 | 19.5 | 3.1 | -1.63 | 1.438 | 97.9 | 1.098 | 10.189 | 344.9 | 481.9 | 0.998 | --- | 0.52 | 0.707 | 155.7 | 250.2 | -2.7 | 0.656 |
| 4-2580 | 4-2960 | 0.457 | 18.0 | 2.1 | -1.66 | 1.415 | 97.0 | 1.033 | 30.562 | 346.2 | 484.9 | 1.001 | --- | 0.54 | 0.659 | 154.2 | 250.4 | -2.6 | 0.608 |
| 4-2580 | 4-2980 | 0.434 | 16.5 | 1.2 | -1.69 | 1.395 | 96.2 | 0.978 | 46.013 | 347.4 | 488.0 | 1.004 | --- | 0.56 | 0.616 | 152.7 | 250.5 | -2.6 | 0.564 |
| 4-2580 | 4-3000 | 0.414 | 15.1 | 0.3 | -1.72 | 1.379 | 95.5 | 0.932 | 14.833 | 348.5 | 490.9 | 1.006 | --- | 0.58 | 0.578 | 151.1 | 250.6 | -2.6 | 0.525 |
| 4-2580 | 4-3020 | 0.397 | 13.8 | -0.6 | -1.75 | 1.365 | 94.9 | 0.893 | 9.440 | 349.6 | 493.8 | 1.008 | --- | 0.60 | 0.543 | 149.4 | 250.6 | -2.6 | 0.489 |
| 4-2580 | 4-3040 | 0.382 | 12.5 | -1.5 | -1.78 | 1.353 | 94.4 | 0.860 | 7.219 | 350.5 | 496.5 | 1.010 | --- | 0.63 | 0.512 | 147.6 | 250.5 | -2.5 | 0.457 |
| 4-2580 | 4-3060 | 0.370 | 11.4 | -2.3 | -1.82 | 1.343 | 93.9 | 0.832 | 6.015 | 351.4 | 499.2 | 1.011 | --- | 0.66 | 0.483 | 145.7 | 250.4 | -2.5 | 0.428 |
| 4-2580 | 4-3080 | 0.360 | 10.4 | -3.0 | -1.86 | 1.334 | 93.5 | 0.808 | 5.267 | 352.2 | 501.8 | 1.012 | --- | 0.70 | 0.458 | 143.8 | 250.1 | -2.4 | 0.401 |
| 4-2580 | 4-3100 | 0.351 | 9.6 | -3.7 | -1.90 | 1.326 | 93.1 | 0.787 | 4.760 | 352.9 | 504.2 | 1.012 | --- | 0.74 | 0.435 | 141.9 | 249.7 | -2.4 | 0.377 |
| 4-2580 | 4-3120 | 0.343 | 8.8 | -4.4 | -1.95 | 1.320 | 92.9 | 0.770 | 4.397 | 353.4 | 506.6 | 1.013 | --- | 0.78 | 0.414 | 139.8 | 249.3 | -2.3 | 0.355 |
| 4-2580 | 4-3140 | 0.337 | 8.3 | -5.0 | -2.01 | 1.314 | 92.6 | 0.754 | 4.127 | 353.9 | 508.9 | 1.013 | --- | 0.83 | 0.395 | 137.8 | 248.7 | -2.2 | 0.335 |
| 4-2580 | 4-3160 | 0.332 | 7.8 | -5.6 | -2.08 | 1.309 | 92.4 | 0.741 | 3.920 | 354.3 | 511.1 | 1.014 | --- | 0.89 | 0.378 | 135.6 | 248.1 | -2.1 | 0.317 |
| 4-2580 | 4-3180 | 0.327 | 7.5 | -6.1 | -2.15 | 1.305 | 92.3 | 0.730 | 3.758 | 354.6 | 513.1 | 1.014 | --- | 0.96 | 0.362 | 133.4 | 247.4 | -2.0 | 0.300 |
| 4-2580 | 4-3200 | 0.324 | 7.4 | -6.6 | -2.24 | 1.301 | 92.2 | 0.720 | 3.628 | 354.8 | 515.1 | 1.014 | --- | 1.05 | 0.349 | 131.2 | 246.5 | -1.9 | 0.286 |
| 4-2580 | 4-3220 | 0.321 | 7.4 | -7.2 | -2.35 | 1.298 | 92.1 | 0.712 | 3.524 | 355.0 | 517.0 | 1.014 | --- | 1.15 | 0.336 | 128.9 | 245.6 | -1.7 | 0.272 |
| 4-2580 | 4-3240 | 0.318 | 7.6 | -7.7 | -2.47 | 1.295 | 92.1 | 0.705 | 3.439 | 355.0 | 518.8 | 1.014 | --- | 1.27 | 0.325 | 126.6 | 244.5 | -1.5 | 0.260 |
| 4-2580 | 4-3260 | 0.317 | 7.9 | -8.3 | -2.63 | 1.293 | 92.1 | 0.699 | 3.369 | 355.0 | 520.6 | 1.014 | --- | 1.42 | 0.314 | 124.3 | 243.4 | -1.3 | 0.249 |
| 4-2580 | 4-3280 | 0.315 | 8.5 | -9.0 | -2.83 | 1.291 | 92.1 | 0.694 | 3.312 | 354.9 | 522.2 | 1.014 | --- | 1.61 | 0.305 | 122.0 | 242.2 | -1.0 | 0.239 |
| 4-2580 | 4-3300 | 0.315 | 9.2 | -9.9 | -3.09 | 1.289 | 92.2 | 0.689 | 3.264 | 354.7 | 523.8 | 1.014 | --- | 1.86 | 0.297 | 119.7 | 241.0 | -0.6 | 0.231 |
| 4-2580 | 4-3320 | 0.315 | 10.2 | -11.1 | -3.44 | 1.288 | 92.3 | 0.686 | 3.225 | 354.5 | 525.3 | 1.014 | --- | 2.22 | 0.290 | 117.3 | 239.7 | -0.1 | 0.223 |
| 4-2580 | 4-3340 | 0.317 | 11.5 | -12.8 | -3.97 | 1.287 | 92.4 | 0.682 | 3.192 | 354.2 | 526.7 | 1.014 | --- | 2.73 | 0.284 | 115.0 | 238.4 | 0.6 | 0.217 |
| 4-2580 | 4-3360 | 0.321 | 13.5 | -15.5 | -4.80 | 1.286 | 92.5 | 0.680 | 3.166 | 353.8 | 528.1 | 1.014 | --- | 3.56 | 0.278 | 112.7 | 237.0 | 1.7 | 0.212 |
| 4-2580 | 4-3380 | 0.331 | 16.8 | -20.6 | -6.36 | 1.285 | 92.7 | 0.678 | 3.144 | 353.4 | 529.4 | 1.013 | --- | 5.12 | 0.273 | 110.4 | 235.7 | 3.8 | 0.208 |
| 4-2580 | 4-3400 | 0.367 | 24.5 | -32.0 | -10.32 | 1.284 | 92.8 | 0.676 | 3.126 | 352.9 | 530.7 | 1.013 | --- | 9.07 | 0.269 | 108.2 | 234.3 | 8.6 | 0.209 |
| 4-2580 | 4-3420 | 0.778 | 83.2 | -61.3 | -37.15 | 1.284 | 93.0 | 0.675 | 3.112 | 352.5 | 531.9 | 1.012 | --- | 35.90 | 0.265 | 105.9 | 231.0 | 29.0 | 0.287 |
| 4-2580 | 4-3440 | 0.421 | 342.9 | 49.5 | 14.72 | 1.283 | 93.3 | 0.674 | 3.101 | 351.8 | 533.1 | 1.012 | --- | -15.98 | 0.262 | 103.8 | 230.4 | -21.2 | 0.217 |
| 4-2580 | 4-3460 | 0.327 | 0.2 | 24.6 | 5.56 | 1.283 | 93.5 | 0.673 | 3.093 | 351.2 | 534.2 | 1.011 | --- | -6.83 | 0.259 | 101.6 | 230.0 | -11.1 | 0.198 |
| 4-2580 | 4-3480 | 0.315 | 5.4 | 16.0 | 3.07 | 1.283 | 93.8 | 0.673 | 3.087 | 350.6 | 535.3 | 1.010 | --- | -4.34 | 0.257 | 99.6 | 229.0 | -8.0 | 0.194 |
| 4-2580 | 4-3500 | 0.312 | 8.3 | 12.1 | 1.90 | 1.282 | 94.1 | 0.673 | 3.083 | 349.9 | 536.3 | 1.010 | --- | -3.18 | 0.255 | 97.5 | 228.0 | -6.5 | 0.192 |
| 4-2580 | 4-3520 | 0.313 | 10.5 | 10.0 | 1.23 | 1.282 | 94.3 | 0.673 | 3.081 | 349.2 | 537.3 | 1.009 | --- | -2.51 | 0.254 | 95.6 | 227.0 | -5.6 | 0.191 |
| 4-2580 | 4-3540 | 0.314 | 12.3 | 8.8 | 0.79 | 1.282 | 94.6 | 0.673 | 3.081 | 348.5 | 538.2 | 1.008 | --- | -2.08 | 0.253 | 93.6 | 226.1 | -5.0 | 0.191 |
| 4-2580 | 4-3560 | 0.316 | 13.9 | 8.1 | 0.48 | 1.282 | 95.0 | 0.673 | 3.082 | 347.7 | 539.1 | 1.007 | --- | -1.78 | 0.252 | 91.8 | 225.3 | -4.5 | 0.191 |
| 4-2580 | 4-3580 | 0.318 | 15.5 | 7.7 | 0.25 | 1.282 | 95.3 | 0.674 | 3.084 | 346.9 | 540.0 | 1.005 | 5.164 | -1.55 | 0.251 | 90.0 | 224.6 | -4.2 | 0.191 |
| 4-2580 | 4-3600 | 0.320 | 16.9 | 7.5 | 0.08 | 1.283 | 95.6 | 0.675 | 3.088 | 346.0 | 540.9 | 1.004 | 5.172 | -1.38 | 0.251 | 88.2 | 224.0 | -3.9 | 0.192 |
| 4-2580 | 4-3620 | 0.323 | 18.4 | 7.5 | -0.07 | 1.283 | 96.0 | 0.676 | 3.093 | 345.2 | 541.7 | 1.002 | 5.183 | -1.24 | 0.251 | 86.5 | 223.5 | -3.7 | 0.193 |
| 4-2580 | 4-3640 | 0.326 | 19.8 | 7.6 | -0.18 | 1.283 | 96.3 | 0.677 | 3.098 | 344.3 | 542.4 | 1.001 | 5.195 | -1.13 | 0.251 | 84.9 | 223.1 | -3.6 | 0.195 |
| 4-2580 | 4-3660 | 0.329 | 21.2 | 7.8 | -0.28 | 1.283 | 96.7 | 0.678 | 3.104 | 343.4 | 543.2 | 0.999 | 5.210 | -1.04 | 0.251 | 83.3 | 222.8 | -3.4 | 0.196 |
| 4-2580 | 4-3680 | 0.333 | 22.6 | 8.0 | -0.36 | 1.284 | 97.1 | 0.680 | 3.111 | 342.4 | 543.9 | 0.997 | 5.226 | -0.96 | 0.251 | 81.8 | 222.6 | -3.3 | 0.198 |
| 4-2580 | 4-3700 | 0.336 | 24.0 | 8.3 | -0.43 | 1.284 | 97.5 | 0.681 | 3.119 | 341.5 | 544.6 | 0.995 | 5.244 | -0.90 | 0.252 | 80.3 | 222.5 | -3.2 | 0.200 |
| 4-2580 | 4-3720 | 0.340 | 25.4 | 8.6 | -0.49 | 1.284 | 97.9 | 0.683 | 3.127 | 340.5 | 545.3 | 0.992 | 5.263 | -0.84 | 0.253 | 78.9 | 222.4 | -3.1 | 0.202 |
| 4-2580 | 4-3740 | 0.345 | 26.8 | 8.9 | -0.55 | 1.285 | 98.3 | 0.684 | 3.136 | 339.5 | 546.0 | 0.990 | 5.283 | -0.79 | 0.253 | 77.5 | 222.5 | -3.0 | 0.204 |
| 4-2580 | 4-3760 | 0.349 | 28.1 | 9.2 | -0.60 | 1.285 | 98.7 | 0.686 | 3.146 | 338.5 | 546.6 | 0.987 | 5.305 | -0.75 | 0.254 | 76.1 | 222.6 | -3.0 | 0.206 |
| 4-2580 | 4-3780 | 0.354 | 29.5 | 9.6 | -0.64 | 1.285 | 99.2 | 0.688 | 3.156 | 337.4 | 547.2 | 0.984 | 5.327 | -0.71 | 0.255 | 74.8 | 222.8 | -2.9 | 0.208 |
| 4-2580 | 4-3800 | 0.359 | 30.9 | 10.0 | -0.68 | 1.286 | 99.6 | 0.690 | 3.166 | 336.4 | 547.8 | 0.981 | 5.351 | -0.68 | 0.256 | 73.6 | 223.0 | -2.9 | 0.211 |
| 4-2580 | 4-3820 | 0.364 | 32.2 | 10.4 | -0.71 | 1.286 | 100.1 | 0.692 | 3.177 | 335.3 | 548.3 | 0.978 | 5.375 | -0.65 | 0.257 | 72.3 | 223.4 | -2.9 | 0.213 |
| 4-2580 | 4-3840 | 0.370 | 33.5 | 10.8 | -0.75 | 1.286 | 100.5 | 0.694 | 3.188 | 334.2 | 548.9 | 0.974 | 5.401 | -0.62 | 0.258 | 71.2 | 223.8 | -2.8 | 0.216 |
| 4-2580 | 4-3860 | 0.375 | 34.9 | 11.2 | -0.78 | 1.287 | 101.0 | 0.697 | 3.199 | 333.1 | 549.4 | 0.971 | 5.427 | -0.60 | 0.259 | 70.0 | 224.2 | -2.8 | 0.218 |
| 4-2580 | 4-3880 | 0.381 | 36.2 | 11.5 | -0.80 | 1.287 | 101.5 | 0.699 | 3.211 | 332.0 | 549.9 | 0.967 | 5.454 | -0.57 | 0.261 | 68.9 | 224.7 | -2.8 | 0.221 |
| 4-2580 | 4-3900 | 0.387 | 37.5 | 11.9 | -0.83 | 1.288 | 101.9 | 0.701 | 3.222 | 330.9 | 550.4 | 0.963 | 5.482 | -0.55 | 0.262 | 67.8 | 225.3 | -2.8 | 0.223 |
| 4-2580 | 4-3920 | 0.394 | 38.8 | 12.3 | -0.85 | 1.288 | 102.4 | 0.704 | 3.235 | 329.7 | 550.9 | 0.959 | 5.510 | -0.54 | 0.263 | 66.8 | 225.9 | -2.8 | 0.226 |
| 4-2580 | 4-3940 | 0.400 | 40.0 | 12.7 | -0.87 | 1.289 | 102.9 | 0.706 | 3.247 | 328.6 | 551.3 | 0.954 | 5.539 | -0.52 | 0.264 | 65.8 | 226.6 | -2.8 | 0.229 |
| 4-2580 | 4-3960 | 0.407 | 41.3 | 13.1 | -0.90 | 1.289 | 103.4 | 0.709 | 3.259 | 327.4 | 551.8 | 0.950 | 5.569 | -0.51 | 0.266 | 64.8 | 227.3 | -2.8 | 0.231 |
| 4-2580 | 4-3980 | 0.414 | 42.5 | 13.4 | -0.92 | 1.290 | 103.9 | 0.711 | 3.272 | 326.2 | 552.2 | 0.945 | 5.599 | -0.49 | 0.267 | 63.8 | 228.0 | -2.8 | 0.234 |
| 4-2580 | 4-4000 | 0.422 | 43.8 | 13.8 | -0.93 | 1.290 | 104.5 | 0.714 | 3.285 | 325.1 | 552.6 | 0.940 | 5.630 | -0.48 | 0.268 | 62.8 | 228.8 | -2.8 | 0.237 |
| 4-2580 | 4-4020 | 0.429 | 45.0 | 14.2 | -0.95 | 1.291 | 105.0 | 0.717 | 3.298 | 323.9 | 553.0 | 0.934 | 5.662 | -0.47 | 0.270 | 61.9 | 229.6 | -2.8 | 0.239 |
| 4-2580 | 4-4040 | 0.437 | 46.2 | 14.5 | -0.97 | 1.291 | 105.5 | 0.720 | 3.311 | 322.6 | 553.3 | 0.929 | 5.694 | -0.46 | 0.271 | 61.0 | 230.5 | -2.8 | 0.242 |
| 4-2580 | 4-4060 | 0.445 | 47.4 | 14.8 | -0.98 | 1.292 | 106.1 | 0.722 | 3.324 | 321.4 | 553.7 | 0.923 | 5.726 | -0.45 | 0.273 | 60.1 | 231.4 | -2.8 | 0.245 |
| 4-2580 | 4-4080 | 0.453 | 48.6 | 15.2 | -1.00 | 1.292 | 106.6 | 0.725 | 3.338 | 320.2 | 554.1 | 0.917 | 5.759 | -0.44 | 0.274 | 59.3 | 232.3 | -2.8 | 0.248 |
| 4-2580 | 4-4100 | 0.461 | 49.7 | 15.5 | -1.01 | 1.292 | 107.2 | 0.728 | 3.351 | 318.9 | 554.4 | 0.911 | 5.792 | -0.43 | 0.276 | 58.4 | 233.3 | -2.9 | 0.251 |
| 4-2580 | 4-4120 | 0.470 | 50.9 | 15.8 | -1.03 | 1.293 | 107.7 | 0.731 | 3.365 | 317.7 | 554.7 | 0.904 | 5.826 | -0.42 | 0.277 | 57.6 | 234.2 | -2.9 | 0.253 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2580 | 4-4140 | 0.478 | 52.0 | 16.1 | -1.04 | 1.293 | 108.3 | 0.734 | 3.379 | 316.4 | 555.0 | 0.897 | 5.860 | -0.41 | 0.278 | 56.8 | 235.2 | -2.9 | 0.256 |
| 4-2580 | 4-4160 | 0.487 | 53.1 | 16.4 | -1.05 | 1.294 | 108.9 | 0.738 | 3.392 | 315.2 | 555.3 | 0.890 | 5.894 | -0.41 | 0.280 | 56.0 | 236.3 | -2.9 | 0.259 |
| 4-2580 | 4-4180 | 0.496 | 54.2 | 16.7 | -1.07 | 1.294 | 109.4 | 0.741 | 3.406 | 313.9 | 555.6 | 0.883 | 5.929 | -0.40 | 0.281 | 55.2 | 237.3 | -2.9 | 0.262 |
| 4-2590 | 4-2870 | 0.610 | 22.5 | 5.6 | -1.38 | 1.572 | 97.2 | 1.505 | -1.987 | 348.1 | 469.2 | 1.003 | --- | 0.16 | 0.952 | 160.4 | 249.6 | -2.8 | 0.900 |
| 4-2590 | 4-2890 | 0.559 | 20.7 | 4.6 | -1.39 | 1.526 | 96.0 | 1.364 | -2.763 | 349.6 | 472.4 | 1.007 | --- | 0.17 | 0.874 | 159.2 | 250.0 | -2.8 | 0.822 |
| 4-2590 | 4-2910 | 0.517 | 18.8 | 3.6 | -1.39 | 1.488 | 95.0 | 1.250 | -4.031 | 351.0 | 475.7 | 1.010 | --- | 0.17 | 0.806 | 157.9 | 250.3 | -2.8 | 0.754 |
| 4-2590 | 4-2930 | 0.482 | 16.8 | 2.6 | -1.40 | 1.457 | 94.0 | 1.157 | -6.427 | 352.5 | 479.0 | 1.012 | --- | 0.17 | 0.747 | 156.6 | 250.6 | -2.8 | 0.694 |
| 4-2590 | 4-2950 | 0.453 | 14.9 | 1.5 | -1.41 | 1.431 | 93.2 | 1.081 | 12.548 | 353.9 | 482.2 | 1.014 | --- | 0.18 | 0.694 | 155.1 | 250.8 | -2.8 | 0.641 |
| 4-2590 | 4-2970 | 0.429 | 13.0 | 0.5 | -1.42 | 1.409 | 92.4 | 1.017 | 59.168 | 355.3 | 485.4 | 1.015 | --- | 0.18 | 0.647 | 153.6 | 251.0 | -2.8 | 0.594 |
| 4-2590 | 4-2990 | 0.409 | 11.2 | -0.5 | -1.42 | 1.390 | 91.7 | 0.964 | 28.275 | 356.5 | 488.5 | 1.016 | --- | 0.19 | 0.605 | 152.1 | 251.1 | -2.8 | 0.551 |
| 4-2590 | 4-3010 | 0.392 | 9.4 | -1.4 | -1.43 | 1.374 | 91.1 | 0.920 | 12.624 | 357.7 | 491.5 | 1.016 | --- | 0.19 | 0.567 | 150.4 | 251.1 | -2.8 | 0.513 |
| 4-2590 | 4-3030 | 0.378 | 7.8 | -2.3 | -1.44 | 1.361 | 90.5 | 0.882 | 8.610 | 358.8 | 494.4 | 1.016 | --- | 0.20 | 0.533 | 148.7 | 251.0 | -2.8 | 0.478 |
| 4-2590 | 4-3050 | 0.367 | 6.3 | -3.1 | -1.45 | 1.349 | 90.1 | 0.850 | 6.783 | 359.8 | 497.2 | 1.017 | --- | 0.21 | 0.503 | 146.9 | 250.9 | -2.8 | 0.447 |
| 4-2590 | 4-3070 | 0.357 | 5.0 | -3.8 | -1.46 | 1.339 | 89.7 | 0.823 | 5.748 | 0.7 | 139.9 | --- | --- | 0.21 | 0.475 | 145.1 | 250.7 | -2.8 | 0.418 |
| 4-2590 | 4-3090 | 0.349 | 3.8 | -4.5 | -1.47 | 1.331 | 89.3 | 0.800 | 5.086 | 1.5 | 142.5 | --- | --- | 0.22 | 0.450 | 143.1 | 250.3 | -2.7 | 0.393 |
| 4-2590 | 4-3110 | 0.342 | 2.8 | -5.1 | -1.48 | 1.323 | 89.0 | 0.781 | 4.630 | 2.2 | 145.0 | --- | --- | 0.23 | 0.428 | 141.1 | 249.9 | -2.7 | 0.369 |
| 4-2590 | 4-3130 | 0.336 | 1.9 | -5.6 | -1.49 | 1.317 | 88.8 | 0.764 | 4.300 | 2.8 | 147.3 | --- | --- | 0.24 | 0.407 | 139.1 | 249.4 | -2.7 | 0.348 |
| 4-2590 | 4-3150 | 0.330 | 1.2 | -6.0 | -1.51 | 1.312 | 88.6 | 0.749 | 4.052 | 3.3 | 149.6 | --- | --- | 0.25 | 0.389 | 137.0 | 248.8 | -2.7 | 0.328 |
| 4-2590 | 4-3170 | 0.326 | 0.7 | -6.4 | -1.52 | 1.307 | 88.4 | 0.737 | 3.861 | 3.7 | 151.8 | --- | --- | 0.26 | 0.372 | 134.8 | 248.1 | -2.6 | 0.311 |
| 4-2590 | 4-3190 | 0.322 | 0.3 | -6.7 | -1.54 | 1.303 | 88.3 | 0.726 | 3.710 | 3.9 | 153.8 | --- | --- | 0.28 | 0.357 | 132.6 | 247.3 | -2.6 | 0.295 |
| 4-2590 | 4-3210 | 0.319 | 0.0 | -6.9 | -1.56 | 1.300 | 88.3 | 0.717 | 3.590 | 4.1 | 155.8 | --- | --- | 0.29 | 0.344 | 130.4 | 246.4 | -2.5 | 0.280 |
| 4-2590 | 4-3230 | 0.316 | 359.9 | -7.1 | -1.58 | 1.297 | 88.2 | 0.709 | 3.493 | 4.2 | 157.6 | --- | --- | 0.31 | 0.332 | 128.1 | 245.5 | -2.5 | 0.267 |
| 4-2590 | 4-3250 | 0.314 | 359.9 | -7.2 | -1.60 | 1.294 | 88.2 | 0.703 | 3.414 | 4.3 | 159.4 | --- | --- | 0.33 | 0.321 | 125.8 | 244.4 | -2.4 | 0.256 |
| 4-2590 | 4-3270 | 0.311 | 0.1 | -7.3 | -1.63 | 1.292 | 88.3 | 0.697 | 3.349 | 4.2 | 161.1 | --- | --- | 0.36 | 0.311 | 123.5 | 243.3 | -2.4 | 0.245 |
| 4-2590 | 4-3290 | 0.310 | 0.3 | -7.4 | -1.66 | 1.290 | 88.3 | 0.692 | 3.295 | 4.1 | 162.8 | --- | --- | 0.38 | 0.302 | 121.2 | 242.1 | -2.3 | 0.236 |
| 4-2590 | 4-3310 | 0.308 | 0.7 | -7.4 | -1.69 | 1.288 | 88.4 | 0.688 | 3.251 | 3.9 | 164.3 | --- | --- | 0.42 | 0.295 | 118.8 | 240.8 | -2.2 | 0.228 |
| 4-2590 | 4-3330 | 0.306 | 1.2 | -7.4 | -1.73 | 1.287 | 88.5 | 0.684 | 3.214 | 3.6 | 165.8 | --- | --- | 0.46 | 0.288 | 116.5 | 239.5 | -2.1 | 0.220 |
| 4-2590 | 4-3350 | 0.305 | 1.8 | -7.4 | -1.78 | 1.286 | 88.7 | 0.681 | 3.184 | 3.3 | 167.2 | --- | --- | 0.50 | 0.282 | 114.2 | 238.2 | -2.0 | 0.214 |
| 4-2590 | 4-3370 | 0.304 | 2.6 | -7.4 | -1.84 | 1.285 | 88.8 | 0.678 | 3.160 | 2.9 | 168.5 | --- | --- | 0.56 | 0.277 | 111.9 | 236.8 | -1.9 | 0.209 |
| 4-2590 | 4-3390 | 0.303 | 3.4 | -7.4 | -1.92 | 1.284 | 89.0 | 0.676 | 3.140 | 2.5 | 169.8 | --- | --- | 0.64 | 0.272 | 109.6 | 235.5 | -1.7 | 0.204 |
| 4-2590 | 4-3410 | 0.303 | 4.3 | -7.5 | -2.02 | 1.284 | 89.2 | 0.675 | 3.124 | 2.0 | 171.1 | --- | --- | 0.74 | 0.268 | 107.4 | 234.2 | -1.5 | 0.200 |
| 4-2590 | 4-3430 | 0.303 | 5.4 | -7.7 | -2.16 | 1.283 | 89.4 | 0.673 | 3.111 | 1.4 | 172.3 | --- | --- | 0.88 | 0.264 | 105.2 | 232.9 | -1.3 | 0.197 |
| 4-2590 | 4-3450 | 0.303 | 6.7 | -8.1 | -2.37 | 1.283 | 89.7 | 0.672 | 3.102 | 0.9 | 173.4 | --- | --- | 1.08 | 0.262 | 103.1 | 231.6 | -1.0 | 0.194 |
| 4-2590 | 4-3470 | 0.303 | 8.2 | -8.9 | -2.69 | 1.282 | 89.9 | 0.671 | 3.095 | 0.2 | 174.5 | --- | --- | 1.40 | 0.259 | 101.0 | 230.5 | -0.5 | 0.193 |
| 4-2590 | 4-3490 | 0.305 | 10.3 | -10.7 | -3.28 | 1.282 | 90.2 | 0.671 | 3.090 | 359.6 | 535.5 | 1.017 | --- | 1.99 | 0.257 | 99.0 | 229.4 | 0.3 | 0.191 |
| 4-2590 | 4-3510 | 0.313 | 13.8 | -15.6 | -4.74 | 1.282 | 90.5 | 0.671 | 3.087 | 358.9 | 536.5 | 1.017 | --- | 3.45 | 0.256 | 97.0 | 228.4 | 2.3 | 0.191 |
| 4-2590 | 4-3530 | 0.404 | 31.2 | -41.7 | -13.95 | 1.282 | 90.7 | 0.671 | 3.086 | 358.1 | 537.5 | 1.016 | --- | 12.66 | 0.254 | 95.1 | 227.9 | 13.6 | 0.203 |
| 4-2590 | 4-3550 | 0.322 | 357.6 | 26.5 | 6.13 | 1.282 | 91.1 | 0.671 | 3.086 | 357.4 | 538.4 | 1.016 | --- | -7.43 | 0.253 | 93.2 | 226.1 | -11.9 | 0.194 |
| 4-2590 | 4-3570 | 0.302 | 6.8 | 10.3 | 1.60 | 1.282 | 91.4 | 0.671 | 3.088 | 356.6 | 539.3 | 1.016 | --- | -2.90 | 0.253 | 91.4 | 225.5 | -6.0 | 0.190 |
| 4-2590 | 4-3590 | 0.301 | 9.9 | 6.6 | 0.50 | 1.282 | 91.7 | 0.672 | 3.091 | 355.7 | 540.2 | 1.015 | 5.167 | -1.80 | 0.252 | 89.6 | 224.9 | -4.6 | 0.190 |
| 4-2590 | 4-3610 | 0.302 | 12.1 | 5.2 | 0.00 | 1.282 | 92.1 | 0.672 | 3.096 | 354.9 | 541.0 | 1.015 | 5.176 | -1.31 | 0.252 | 87.9 | 224.4 | -3.9 | 0.191 |
| 4-2590 | 4-3630 | 0.303 | 13.9 | 4.7 | -0.28 | 1.283 | 92.4 | 0.673 | 3.101 | 354.0 | 541.8 | 1.014 | 5.187 | -1.03 | 0.252 | 86.3 | 223.9 | -3.5 | 0.192 |
| 4-2590 | 4-3650 | 0.305 | 15.6 | 4.6 | -0.46 | 1.283 | 92.8 | 0.674 | 3.107 | 353.1 | 542.6 | 1.014 | 5.200 | -0.85 | 0.252 | 84.7 | 223.6 | -3.2 | 0.193 |
| 4-2590 | 4-3670 | 0.307 | 17.2 | 4.7 | -0.59 | 1.283 | 93.1 | 0.675 | 3.114 | 352.2 | 543.3 | 1.013 | 5.215 | -0.72 | 0.252 | 83.2 | 223.3 | -3.0 | 0.195 |
| 4-2590 | 4-3690 | 0.309 | 18.8 | 4.9 | -0.68 | 1.283 | 93.5 | 0.676 | 3.121 | 351.2 | 544.0 | 1.012 | 5.231 | -0.63 | 0.253 | 81.7 | 223.1 | -2.9 | 0.196 |
| 4-2590 | 4-3710 | 0.311 | 20.4 | 5.2 | -0.76 | 1.284 | 93.9 | 0.677 | 3.130 | 350.3 | 544.7 | 1.011 | 5.248 | -0.56 | 0.253 | 80.3 | 223.0 | -2.8 | 0.198 |
| 4-2590 | 4-3730 | 0.313 | 22.0 | 5.6 | -0.81 | 1.284 | 94.3 | 0.678 | 3.138 | 349.3 | 545.4 | 1.009 | 5.267 | -0.50 | 0.254 | 78.9 | 223.0 | -2.7 | 0.200 |
| 4-2590 | 4-3750 | 0.316 | 23.5 | 6.1 | -0.86 | 1.284 | 94.7 | 0.680 | 3.148 | 348.3 | 546.0 | 1.008 | 5.287 | -0.46 | 0.255 | 77.5 | 223.1 | -2.7 | 0.202 |
| 4-2590 | 4-3770 | 0.319 | 25.1 | 6.5 | -0.90 | 1.285 | 95.2 | 0.681 | 3.158 | 347.3 | 546.7 | 1.006 | 5.309 | -0.42 | 0.256 | 76.2 | 223.2 | -2.6 | 0.204 |
| 4-2590 | 4-3790 | 0.322 | 26.6 | 7.0 | -0.93 | 1.285 | 95.6 | 0.683 | 3.168 | 346.2 | 547.3 | 1.005 | 5.331 | -0.39 | 0.257 | 75.0 | 223.4 | -2.6 | 0.206 |
| 4-2590 | 4-3810 | 0.326 | 28.2 | 7.5 | -0.96 | 1.286 | 96.0 | 0.684 | 3.178 | 345.2 | 547.9 | 1.003 | 5.354 | -0.36 | 0.258 | 73.8 | 223.7 | -2.6 | 0.208 |
| 4-2590 | 4-3830 | 0.330 | 29.7 | 8.0 | -0.99 | 1.286 | 96.5 | 0.686 | 3.189 | 344.1 | 548.4 | 1.001 | 5.378 | -0.34 | 0.259 | 72.6 | 224.0 | -2.5 | 0.211 |
| 4-2590 | 4-3850 | 0.334 | 31.3 | 8.6 | -1.01 | 1.287 | 96.9 | 0.688 | 3.201 | 343.0 | 549.0 | 0.999 | 5.403 | -0.32 | 0.260 | 71.5 | 224.5 | -2.5 | 0.213 |
| 4-2590 | 4-3870 | 0.338 | 32.8 | 9.1 | -1.03 | 1.287 | 97.4 | 0.690 | 3.212 | 341.9 | 549.5 | 0.996 | 5.429 | -0.30 | 0.261 | 70.4 | 224.9 | -2.5 | 0.215 |
| 4-2590 | 4-3890 | 0.342 | 34.3 | 9.8 | -1.05 | 1.287 | 97.8 | 0.692 | 3.224 | 340.8 | 550.0 | 0.994 | 5.455 | -0.29 | 0.263 | 69.4 | 225.4 | -2.5 | 0.218 |
| 4-2590 | 4-3910 | 0.347 | 35.8 | 10.1 | -1.06 | 1.288 | 98.3 | 0.694 | 3.236 | 339.7 | 550.5 | 0.991 | 5.482 | -0.27 | 0.264 | 68.3 | 226.0 | -2.5 | 0.220 |
| 4-2590 | 4-3930 | 0.352 | 37.3 | 10.6 | -1.08 | 1.288 | 98.8 | 0.696 | 3.249 | 338.6 | 551.0 | 0.988 | 5.510 | -0.26 | 0.265 | 67.3 | 226.6 | -2.5 | 0.222 |
| 4-2590 | 4-3950 | 0.357 | 38.8 | 11.1 | -1.09 | 1.289 | 99.3 | 0.698 | 3.261 | 337.4 | 551.4 | 0.985 | 5.538 | -0.25 | 0.267 | 66.4 | 227.3 | -2.5 | 0.225 |
| 4-2590 | 4-3970 | 0.363 | 40.3 | 11.6 | -1.10 | 1.289 | 99.7 | 0.700 | 3.274 | 336.3 | 551.9 | 0.981 | 5.567 | -0.24 | 0.268 | 65.4 | 228.0 | -2.5 | 0.227 |
| 4-2590 | 4-3990 | 0.368 | 41.7 | 12.1 | -1.11 | 1.290 | 100.2 | 0.703 | 3.287 | 335.1 | 552.3 | 0.978 | 5.597 | -0.23 | 0.269 | 64.5 | 228.7 | -2.6 | 0.230 |
| 4-2590 | 4-4010 | 0.374 | 43.2 | 12.5 | -1.12 | 1.290 | 100.7 | 0.705 | 3.300 | 333.9 | 552.7 | 0.974 | 5.627 | -0.22 | 0.271 | 63.6 | 229.5 | -2.6 | 0.232 |
| 4-2590 | 4-4030 | 0.380 | 44.6 | 13.0 | -1.13 | 1.291 | 101.2 | 0.707 | 3.313 | 332.7 | 553.1 | 0.970 | 5.657 | -0.22 | 0.272 | 62.7 | 230.3 | -2.6 | 0.235 |
| 4-2590 | 4-4050 | 0.387 | 46.0 | 13.4 | -1.14 | 1.291 | 101.8 | 0.710 | 3.327 | 331.5 | 553.5 | 0.966 | 5.688 | -0.21 | 0.273 | 61.9 | 231.2 | -2.6 | 0.237 |
| 4-2590 | 4-4070 | 0.394 | 47.4 | 13.9 | -1.15 | 1.292 | 102.3 | 0.712 | 3.340 | 330.3 | 553.9 | 0.961 | 5.719 | -0.20 | 0.275 | 61.0 | 232.1 | -2.6 | 0.240 |
| 4-2590 | 4-4090 | 0.400 | 48.8 | 14.3 | -1.16 | 1.292 | 102.8 | 0.715 | 3.354 | 329.1 | 554.2 | 0.957 | 5.751 | -0.20 | 0.276 | 60.2 | 233.0 | -2.6 | 0.242 |
| 4-2590 | 4-4110 | 0.407 | 50.1 | 14.7 | -1.17 | 1.292 | 103.3 | 0.717 | 3.367 | 327.9 | 554.6 | 0.952 | 5.783 | -0.19 | 0.278 | 59.4 | 233.9 | -2.7 | 0.245 |
| 4-2590 | 4-4130 | 0.415 | 51.5 | 15.1 | -1.17 | 1.293 | 103.9 | 0.720 | 3.381 | 326.7 | 554.9 | 0.947 | 5.816 | -0.19 | 0.279 | 58.6 | 234.9 | -2.7 | 0.248 |
| 4-2590 | 4-4150 | 0.422 | 52.8 | 15.4 | -1.18 | 1.293 | 104.4 | 0.723 | 3.395 | 325.4 | 555.2 | 0.941 | 5.849 | -0.18 | 0.281 | 57.9 | 235.9 | -2.7 | 0.250 |
| 4-2590 | 4-4170 | 0.430 | 54.1 | 15.8 | -1.19 | 1.294 | 105.0 | 0.726 | 3.409 | 324.2 | 555.6 | 0.936 | 5.882 | -0.18 | 0.282 | 57.1 | 236.9 | -2.7 | 0.253 |
| 4-2590 | 4-4190 | 0.438 | 55.4 | 16.2 | -1.19 | 1.294 | 105.5 | 0.728 | 3.423 | 322.9 | 555.9 | 0.930 | 5.916 | -0.18 | 0.284 | 56.4 | 237.9 | -2.8 | 0.255 |
| 4-2600 | 4-2860 | 0.632 | 20.0 | 4.9 | -1.27 | 1.612 | 92.7 | 1.641 | -1.584 | 355.7 | 466.3 | 1.015 | --- | -0.08 | 1.017 | 161.1 | 249.9 | -2.9 | 0.963 |
| 4-2600 | 4-2880 | 0.577 | 17.8 | 3.8 | -1.27 | 1.559 | 91.6 | 1.469 | -2.166 | 357.2 | 469.7 | 1.016 | --- | -0.08 | 0.930 | 159.9 | 250.3 | -2.9 | 0.877 |
| 4-2600 | 4-2900 | 0.532 | 15.5 | 2.7 | -1.27 | 1.515 | 90.7 | 1.332 | -3.059 | 358.8 | 473.1 | 1.017 | --- | -0.08 | 0.854 | 158.7 | 250.6 | -2.9 | 0.801 |
| 4-2600 | 4-2920 | 0.496 | 13.1 | 1.5 | -1.27 | 1.478 | 89.8 | 1.222 | -4.575 | 0.4 | 116.5 | --- | --- | -0.09 | 0.788 | 157.4 | 250.9 | -2.9 | 0.735 |
| 4-2600 | 4-2940 | 0.466 | 10.8 | 0.4 | -1.26 | 1.448 | 88.9 | 1.133 | -7.668 | 2.0 | 119.9 | --- | --- | -0.09 | 0.730 | 156.1 | 251.1 | -2.9 | 0.677 |
| 4-2600 | 4-2960 | 0.442 | 8.5 | -0.7 | -1.26 | 1.423 | 88.2 | 1.059 | 17.235 | 3.5 | 123.2 | --- | --- | -0.09 | 0.678 | 154.6 | 251.2 | -2.9 | 0.625 |
| 4-2600 | 4-2980 | 0.422 | 6.4 | -1.8 | -1.26 | 1.402 | 87.5 | 0.998 | 68.020 | 4.9 | 126.5 | --- | --- | -0.09 | 0.632 | 153.1 | 251.3 | -3.0 | 0.579 |
| 4-2600 | 4-3000 | 0.406 | 4.4 | -2.8 | -1.25 | 1.384 | 86.9 | 0.948 | 19.369 | 6.3 | 129.6 | --- | --- | -0.09 | 0.591 | 151.5 | 251.3 | -3.0 | 0.537 |
| 4-2600 | 4-3020 | 0.393 | 2.5 | -3.7 | -1.25 | 1.369 | 86.4 | 0.905 | 10.706 | 7.5 | 132.7 | --- | --- | -0.09 | 0.554 | 149.9 | 251.3 | -3.0 | 0.500 |
| 4-2600 | 4-3040 | 0.382 | 0.8 | -4.5 | -1.25 | 1.356 | 86.0 | 0.870 | 7.777 | 8.7 | 135.6 | --- | --- | -0.10 | 0.521 | 148.1 | 251.1 | -3.0 | 0.466 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2600 | 4-3060 | 0.373 | 359.2 | -5.2 | -1.24 | 1.345 | 85.6 | 0.840 | 6.315 | 9.7 | 138.4 | --- | --- | -0.10 | 0.492 | 146.3 | 250.9 | -3.0 | 0.436 |
| 4-2600 | 4-3080 | 0.366 | 357.9 | -5.8 | -1.24 | 1.335 | 85.2 | 0.815 | 5.446 | 10.6 | 141.1 | --- | --- | -0.10 | 0.465 | 144.4 | 250.6 | -3.0 | 0.408 |
| 4-2600 | 4-3100 | 0.359 | 356.7 | -6.4 | -1.23 | 1.327 | 85.0 | 0.793 | 4.875 | 11.4 | 143.7 | --- | --- | -0.10 | 0.440 | 142.5 | 250.2 | -3.0 | 0.383 |
| 4-2600 | 4-3120 | 0.354 | 355.7 | -6.8 | -1.23 | 1.320 | 84.7 | 0.775 | 4.474 | 12.1 | 146.2 | --- | --- | -0.11 | 0.419 | 140.5 | 249.8 | -3.0 | 0.361 |
| 4-2600 | 4-3140 | 0.349 | 354.8 | -7.2 | -1.22 | 1.315 | 84.6 | 0.759 | 4.180 | 12.6 | 148.5 | --- | --- | -0.11 | 0.399 | 138.4 | 249.2 | -3.0 | 0.340 |
| 4-2600 | 4-3160 | 0.345 | 354.2 | -7.5 | -1.22 | 1.309 | 84.4 | 0.746 | 3.957 | 13.1 | 150.7 | --- | --- | -0.11 | 0.381 | 136.2 | 248.5 | -2.9 | 0.321 |
| 4-2600 | 4-3180 | 0.342 | 353.7 | -7.8 | -1.21 | 1.305 | 84.3 | 0.734 | 3.784 | 13.4 | 152.9 | --- | --- | -0.12 | 0.365 | 134.0 | 247.8 | -2.9 | 0.305 |
| 4-2600 | 4-3200 | 0.338 | 353.3 | -7.9 | -1.21 | 1.301 | 84.3 | 0.725 | 3.647 | 13.7 | 154.9 | --- | --- | -0.12 | 0.351 | 131.8 | 246.9 | -2.9 | 0.289 |
| 4-2600 | 4-3220 | 0.335 | 353.1 | -8.0 | -1.20 | 1.298 | 84.2 | 0.716 | 3.538 | 13.8 | 156.8 | --- | --- | -0.13 | 0.338 | 129.5 | 246.0 | -2.9 | 0.275 |
| 4-2600 | 4-3240 | 0.333 | 353.0 | -8.1 | -1.19 | 1.295 | 84.3 | 0.709 | 3.449 | 13.9 | 158.6 | --- | --- | -0.13 | 0.326 | 127.2 | 244.9 | -2.9 | 0.263 |
| 4-2600 | 4-3260 | 0.330 | 353.0 | -8.1 | -1.19 | 1.293 | 84.3 | 0.702 | 3.377 | 13.9 | 160.4 | --- | --- | -0.14 | 0.315 | 124.9 | 243.8 | -2.9 | 0.252 |
| 4-2600 | 4-3280 | 0.328 | 353.1 | -8.0 | -1.18 | 1.291 | 84.4 | 0.697 | 3.317 | 13.8 | 162.0 | --- | --- | -0.15 | 0.306 | 122.6 | 242.6 | -2.9 | 0.242 |
| 4-2600 | 4-3300 | 0.325 | 353.4 | -7.9 | -1.17 | 1.289 | 84.5 | 0.692 | 3.268 | 13.6 | 163.6 | --- | --- | -0.15 | 0.298 | 120.2 | 241.4 | -2.9 | 0.233 |
| 4-2600 | 4-3320 | 0.323 | 353.7 | -7.7 | -1.16 | 1.287 | 84.6 | 0.688 | 3.228 | 13.3 | 165.1 | --- | --- | -0.16 | 0.291 | 117.9 | 240.1 | -2.8 | 0.225 |
| 4-2600 | 4-3340 | 0.321 | 354.1 | -7.5 | -1.15 | 1.286 | 84.7 | 0.685 | 3.195 | 13.0 | 166.5 | --- | --- | -0.17 | 0.284 | 115.5 | 238.8 | -2.8 | 0.218 |
| 4-2600 | 4-3360 | 0.319 | 354.7 | -7.3 | -1.14 | 1.285 | 84.9 | 0.682 | 3.168 | 12.7 | 167.9 | --- | --- | -0.18 | 0.278 | 113.2 | 237.5 | -2.8 | 0.212 |
| 4-2600 | 4-3380 | 0.317 | 355.3 | -7.0 | -1.12 | 1.284 | 85.1 | 0.680 | 3.146 | 12.2 | 169.2 | --- | --- | -0.20 | 0.274 | 111.0 | 236.2 | -2.8 | 0.207 |
| 4-2600 | 4-3400 | 0.315 | 355.9 | -6.7 | -1.11 | 1.284 | 85.3 | 0.678 | 3.128 | 11.7 | 170.5 | --- | --- | -0.21 | 0.269 | 108.7 | 234.9 | -2.8 | 0.203 |
| 4-2600 | 4-3420 | 0.313 | 356.7 | -6.3 | -1.09 | 1.283 | 85.5 | 0.676 | 3.114 | 11.2 | 171.7 | --- | --- | -0.23 | 0.266 | 106.5 | 233.6 | -2.8 | 0.199 |
| 4-2600 | 4-3440 | 0.312 | 357.5 | -5.8 | -1.06 | 1.283 | 85.7 | 0.675 | 3.103 | 10.6 | 172.8 | --- | --- | -0.25 | 0.262 | 104.3 | 232.3 | -2.8 | 0.196 |
| 4-2600 | 4-3460 | 0.310 | 358.4 | -5.4 | -1.04 | 1.282 | 86.0 | 0.674 | 3.095 | 10.0 | 173.9 | --- | --- | -0.28 | 0.260 | 102.2 | 231.1 | -2.8 | 0.194 |
| 4-2600 | 4-3480 | 0.308 | 359.3 | -4.8 | -1.00 | 1.282 | 86.2 | 0.673 | 3.090 | 9.4 | 175.0 | --- | --- | -0.31 | 0.258 | 100.2 | 230.0 | -2.8 | 0.192 |
| 4-2600 | 4-3500 | 0.307 | 0.3 | -4.2 | -0.96 | 1.282 | 86.5 | 0.672 | 3.086 | 8.7 | 176.0 | --- | --- | -0.35 | 0.256 | 98.1 | 229.0 | -2.8 | 0.191 |
| 4-2600 | 4-3520 | 0.305 | 1.4 | -3.6 | -0.91 | 1.282 | 86.8 | 0.672 | 3.085 | 8.0 | 176.9 | --- | --- | -0.40 | 0.255 | 96.2 | 228.0 | -2.8 | 0.190 |
| 4-2600 | 4-3540 | 0.304 | 2.4 | -2.8 | -0.83 | 1.282 | 87.1 | 0.671 | 3.085 | 7.2 | 177.9 | --- | --- | -0.48 | 0.253 | 94.3 | 227.1 | -2.9 | 0.190 |
| 4-2600 | 4-3560 | 0.303 | 3.4 | -1.9 | -0.73 | 1.282 | 87.4 | 0.671 | 3.086 | 6.4 | 178.8 | --- | --- | -0.58 | 0.253 | 92.5 | 226.3 | -3.0 | 0.190 |
| 4-2600 | 4-3580 | 0.302 | 4.4 | -0.7 | -0.56 | 1.282 | 87.8 | 0.672 | 3.089 | 5.6 | 179.7 | --- | --- | -0.75 | 0.252 | 90.7 | 225.6 | -3.2 | 0.190 |
| 4-2600 | 4-3600 | 0.301 | 5.3 | 1.1 | -0.26 | 1.282 | 88.1 | 0.672 | 3.093 | 4.7 | 180.5 | --- | 5.171 | -1.04 | 0.252 | 89.0 | 225.0 | -3.5 | 0.190 |
| 4-2600 | 4-3620 | 0.301 | 5.5 | 4.3 | 0.42 | 1.282 | 88.4 | 0.672 | 3.098 | 3.9 | 181.3 | --- | 5.181 | -1.72 | 0.252 | 87.3 | 224.4 | -4.4 | 0.191 |
| 4-2600 | 4-3640 | 0.308 | 1.3 | 17.3 | 3.63 | 1.283 | 88.8 | 0.673 | 3.104 | 3.0 | 182.1 | --- | 5.193 | -4.94 | 0.252 | 85.8 | 223.9 | -8.5 | 0.194 |
| 4-2600 | 4-3660 | 0.330 | 20.5 | -22.0 | -6.98 | 1.283 | 89.2 | 0.673 | 3.111 | 2.0 | 182.8 | --- | 5.206 | 5.67 | 0.252 | 84.2 | 224.2 | 5.1 | 0.196 |
| 4-2600 | 4-3680 | 0.306 | 15.7 | -7.6 | -3.11 | 1.283 | 89.6 | 0.674 | 3.119 | 1.1 | 183.5 | --- | 5.221 | 1.81 | 0.253 | 82.7 | 223.7 | 0.2 | 0.195 |
| 4-2600 | 4-3700 | 0.304 | 16.0 | -4.1 | -2.38 | 1.283 | 89.9 | 0.675 | 3.127 | 0.1 | 184.2 | --- | 5.237 | 1.08 | 0.254 | 81.3 | 223.5 | -0.7 | 0.196 |
| 4-2600 | 4-3720 | 0.303 | 17.0 | -2.3 | -2.07 | 1.284 | 90.3 | 0.676 | 3.136 | 359.2 | 544.9 | 1.017 | 5.255 | 0.77 | 0.254 | 79.9 | 223.4 | -1.1 | 0.198 |
| 4-2600 | 4-3740 | 0.303 | 18.3 | -0.9 | -1.90 | 1.284 | 90.7 | 0.677 | 3.145 | 358.2 | 545.6 | 1.017 | 5.274 | 0.60 | 0.255 | 78.6 | 223.4 | -1.4 | 0.200 |
| 4-2600 | 4-3760 | 0.304 | 19.7 | 0.2 | -1.79 | 1.285 | 91.1 | 0.678 | 3.155 | 357.2 | 546.2 | 1.016 | 5.294 | 0.49 | 0.256 | 77.3 | 223.5 | -1.5 | 0.201 |
| 4-2600 | 4-3780 | 0.305 | 21.2 | 1.1 | -1.71 | 1.285 | 91.6 | 0.679 | 3.165 | 356.1 | 546.8 | 1.016 | 5.315 | 0.42 | 0.257 | 76.1 | 223.7 | -1.6 | 0.203 |
| 4-2600 | 4-3800 | 0.306 | 22.8 | 2.0 | -1.66 | 1.285 | 92.0 | 0.680 | 3.176 | 355.1 | 547.4 | 1.015 | 5.337 | 0.36 | 0.258 | 74.9 | 223.9 | -1.7 | 0.205 |
| 4-2600 | 4-3820 | 0.308 | 24.3 | 2.9 | -1.61 | 1.286 | 92.4 | 0.682 | 3.187 | 354.0 | 548.0 | 1.015 | 5.360 | 0.32 | 0.259 | 73.7 | 224.2 | -1.8 | 0.207 |
| 4-2600 | 4-3840 | 0.309 | 25.9 | 3.7 | -1.58 | 1.286 | 92.9 | 0.683 | 3.199 | 353.0 | 548.6 | 1.014 | 5.384 | 0.29 | 0.260 | 72.6 | 224.6 | -1.8 | 0.209 |
| 4-2600 | 4-3860 | 0.312 | 27.6 | 4.5 | -1.55 | 1.287 | 93.3 | 0.685 | 3.211 | 351.9 | 549.1 | 1.013 | 5.408 | 0.26 | 0.262 | 71.5 | 225.0 | -1.9 | 0.212 |
| 4-2600 | 4-3880 | 0.314 | 29.2 | 5.3 | -1.53 | 1.287 | 93.7 | 0.686 | 3.223 | 350.8 | 549.6 | 1.011 | 5.434 | 0.24 | 0.263 | 70.5 | 225.5 | -1.9 | 0.214 |
| 4-2600 | 4-3900 | 0.317 | 30.9 | 6.0 | -1.51 | 1.288 | 94.2 | 0.688 | 3.235 | 349.7 | 550.1 | 1.010 | 5.460 | 0.22 | 0.264 | 69.5 | 226.0 | -2.0 | 0.216 |
| 4-2600 | 4-3920 | 0.319 | 32.5 | 6.7 | -1.49 | 1.288 | 94.7 | 0.689 | 3.247 | 348.6 | 550.6 | 1.009 | 5.486 | 0.21 | 0.265 | 68.5 | 226.6 | -2.0 | 0.218 |
| 4-2600 | 4-3940 | 0.323 | 34.2 | 7.4 | -1.48 | 1.289 | 95.1 | 0.691 | 3.260 | 347.4 | 551.1 | 1.007 | 5.513 | 0.19 | 0.267 | 67.6 | 227.3 | -2.0 | 0.220 |
| 4-2600 | 4-3960 | 0.326 | 35.8 | 8.1 | -1.47 | 1.289 | 95.6 | 0.693 | 3.273 | 346.3 | 551.5 | 1.005 | 5.541 | 0.18 | 0.268 | 66.6 | 227.9 | -2.1 | 0.223 |
| 4-2600 | 4-3980 | 0.330 | 37.5 | 8.8 | -1.46 | 1.290 | 96.1 | 0.695 | 3.286 | 345.1 | 552.0 | 1.003 | 5.569 | 0.17 | 0.270 | 65.7 | 228.6 | -2.1 | 0.225 |
| 4-2600 | 4-4000 | 0.334 | 39.1 | 9.5 | -1.45 | 1.290 | 96.6 | 0.697 | 3.299 | 344.0 | 552.4 | 1.001 | 5.598 | 0.16 | 0.271 | 64.9 | 229.4 | -2.2 | 0.227 |
| 4-2600 | 4-4020 | 0.338 | 40.8 | 10.1 | -1.44 | 1.290 | 97.1 | 0.699 | 3.313 | 342.8 | 552.8 | 0.998 | 5.627 | 0.15 | 0.272 | 64.0 | 230.2 | -2.2 | 0.230 |
| 4-2600 | 4-4040 | 0.342 | 42.4 | 10.7 | -1.43 | 1.291 | 97.6 | 0.701 | 3.326 | 341.6 | 553.3 | 0.995 | 5.657 | 0.15 | 0.274 | 63.2 | 231.0 | -2.2 | 0.232 |
| 4-2600 | 4-4060 | 0.347 | 44.0 | 11.3 | -1.42 | 1.291 | 98.1 | 0.703 | 3.340 | 340.4 | 553.7 | 0.993 | 5.687 | 0.14 | 0.275 | 62.4 | 231.8 | -2.3 | 0.234 |
| 4-2600 | 4-4080 | 0.352 | 45.7 | 11.9 | -1.41 | 1.292 | 98.6 | 0.705 | 3.354 | 339.2 | 554.0 | 0.989 | 5.718 | 0.14 | 0.277 | 61.6 | 232.7 | -2.3 | 0.236 |
| 4-2600 | 4-4100 | 0.358 | 47.3 | 12.4 | -1.41 | 1.292 | 99.1 | 0.707 | 3.367 | 338.0 | 554.4 | 0.986 | 5.748 | 0.13 | 0.278 | 60.8 | 233.6 | -2.3 | 0.239 |
| 4-2600 | 4-4120 | 0.363 | 48.8 | 13.0 | -1.40 | 1.293 | 99.6 | 0.709 | 3.381 | 336.8 | 554.8 | 0.983 | 5.780 | 0.13 | 0.280 | 60.1 | 234.6 | -2.4 | 0.241 |
| 4-2600 | 4-4140 | 0.369 | 50.4 | 13.5 | -1.40 | 1.293 | 100.1 | 0.712 | 3.395 | 335.6 | 555.1 | 0.979 | 5.811 | 0.12 | 0.281 | 59.3 | 235.5 | -2.4 | 0.243 |
| 4-2600 | 4-4160 | 0.375 | 51.9 | 14.0 | -1.39 | 1.294 | 100.6 | 0.714 | 3.409 | 334.4 | 555.4 | 0.975 | 5.843 | 0.12 | 0.282 | 58.6 | 236.5 | -2.4 | 0.246 |
| 4-2600 | 4-4180 | 0.381 | 53.5 | 14.5 | -1.39 | 1.294 | 101.2 | 0.716 | 3.423 | 333.1 | 555.8 | 0.971 | 5.876 | 0.11 | 0.284 | 57.9 | 237.5 | -2.5 | 0.248 |
| 4-2600 | 4-4200 | 0.388 | 55.0 | 14.9 | -1.38 | 1.295 | 101.7 | 0.719 | 3.437 | 331.9 | 556.1 | 0.967 | 5.908 | 0.11 | 0.285 | 57.2 | 238.5 | -2.5 | 0.251 |
| 4-2610 | 4-2870 | 0.617 | 14.3 | 2.7 | -1.21 | 1.595 | 86.7 | 1.585 | -1.734 | 5.3 | 107.3 | --- | --- | -0.30 | 0.990 | 160.8 | 250.4 | -3.0 | 0.936 |
| 4-2610 | 4-2890 | 0.569 | 11.6 | 1.5 | -1.20 | 1.544 | 85.8 | 1.421 | -2.403 | 7.1 | 110.9 | --- | --- | -0.30 | 0.905 | 159.6 | 250.7 | -3.0 | 0.852 |
| 4-2610 | 4-2910 | 0.530 | 9.0 | 0.2 | -1.19 | 1.502 | 85.0 | 1.291 | -3.467 | 8.8 | 114.5 | --- | --- | -0.30 | 0.831 | 158.4 | 250.9 | -3.0 | 0.779 |
| 4-2610 | 4-2930 | 0.500 | 6.5 | -1.0 | -1.18 | 1.467 | 84.3 | 1.187 | -5.384 | 10.5 | 118.0 | --- | --- | -0.31 | 0.767 | 157.1 | 251.1 | -3.0 | 0.715 |
| 4-2610 | 4-2950 | 0.476 | 4.0 | -2.1 | -1.17 | 1.439 | 83.6 | 1.103 | -9.785 | 12.2 | 121.5 | --- | --- | -0.31 | 0.710 | 155.7 | 251.2 | -3.0 | 0.658 |
| 4-2610 | 4-2970 | 0.456 | 1.7 | -3.2 | -1.16 | 1.415 | 83.0 | 1.034 | 29.730 | 13.8 | 124.9 | --- | --- | -0.31 | 0.660 | 154.3 | 251.3 | -3.1 | 0.608 |
| 4-2610 | 4-2990 | 0.441 | 359.5 | -4.1 | -1.15 | 1.395 | 82.4 | 0.977 | 43.462 | 15.3 | 128.2 | --- | --- | -0.32 | 0.615 | 152.7 | 251.3 | -3.1 | 0.563 |
| 4-2610 | 4-3010 | 0.428 | 357.5 | -5.0 | -1.14 | 1.378 | 82.0 | 0.930 | 14.242 | 16.7 | 131.4 | --- | --- | -0.32 | 0.575 | 151.1 | 251.3 | -3.1 | 0.523 |
| 4-2610 | 4-3030 | 0.418 | 355.7 | -5.8 | -1.13 | 1.363 | 81.5 | 0.891 | 9.111 | 18.0 | 134.5 | --- | --- | -0.33 | 0.539 | 149.4 | 251.1 | -3.1 | 0.487 |
| 4-2610 | 4-3050 | 0.410 | 354.2 | -6.5 | -1.12 | 1.351 | 81.2 | 0.858 | 6.992 | 19.1 | 137.4 | --- | --- | -0.33 | 0.507 | 147.6 | 250.9 | -3.1 | 0.454 |
| 4-2610 | 4-3070 | 0.403 | 352.8 | -7.1 | -1.10 | 1.340 | 80.9 | 0.831 | 5.843 | 20.1 | 140.2 | --- | --- | -0.34 | 0.478 | 145.8 | 250.6 | -3.1 | 0.425 |
| 4-2610 | 4-3090 | 0.397 | 351.6 | -7.6 | -1.09 | 1.331 | 80.6 | 0.808 | 5.128 | 21.0 | 142.9 | --- | --- | -0.34 | 0.452 | 143.9 | 250.2 | -3.1 | 0.398 |
| 4-2610 | 4-3110 | 0.392 | 350.6 | -8.0 | -1.08 | 1.324 | 80.4 | 0.788 | 4.645 | 21.7 | 145.4 | --- | --- | -0.35 | 0.429 | 141.9 | 249.8 | -3.1 | 0.374 |
| 4-2610 | 4-3130 | 0.388 | 349.7 | -8.3 | -1.06 | 1.317 | 80.3 | 0.771 | 4.300 | 22.4 | 147.8 | --- | --- | -0.36 | 0.407 | 139.8 | 249.2 | -3.1 | 0.352 |
| 4-2610 | 4-3150 | 0.384 | 349.1 | -8.5 | -1.05 | 1.312 | 80.2 | 0.757 | 4.043 | 22.9 | 150.1 | --- | --- | -0.37 | 0.388 | 137.7 | 248.5 | -3.1 | 0.333 |
| 4-2610 | 4-3170 | 0.380 | 348.5 | -8.7 | -1.04 | 1.307 | 80.1 | 0.745 | 3.846 | 23.3 | 152.3 | --- | --- | -0.38 | 0.371 | 135.5 | 247.8 | -3.2 | 0.315 |
| 4-2610 | 4-3190 | 0.377 | 348.1 | -8.9 | -1.02 | 1.303 | 80.0 | 0.734 | 3.693 | 23.6 | 154.4 | --- | --- | -0.39 | 0.356 | 133.3 | 246.9 | -3.2 | 0.299 |
| 4-2610 | 4-3210 | 0.374 | 347.9 | -8.9 | -1.00 | 1.299 | 80.0 | 0.725 | 3.571 | 23.7 | 156.3 | --- | --- | -0.40 | 0.342 | 131.0 | 246.0 | -3.2 | 0.284 |
| 4-2610 | 4-3230 | 0.371 | 347.7 | -9.0 | -0.99 | 1.296 | 80.1 | 0.718 | 3.473 | 23.8 | 158.2 | --- | --- | -0.41 | 0.329 | 128.7 | 245.0 | -3.2 | 0.271 |
| 4-2610 | 4-3250 | 0.368 | 347.7 | -8.9 | -0.97 | 1.293 | 80.1 | 0.711 | 3.394 | 23.8 | 159.9 | --- | --- | -0.42 | 0.318 | 126.3 | 243.9 | -3.2 | 0.259 |
| 4-2610 | 4-3270 | 0.365 | 347.8 | -8.8 | -0.95 | 1.291 | 80.2 | 0.705 | 3.329 | 23.7 | 161.6 | --- | --- | -0.44 | 0.308 | 123.9 | 242.8 | -3.2 | 0.248 |
| 4-2610 | 4-3290 | 0.362 | 347.9 | -8.7 | -0.93 | 1.289 | 80.3 | 0.700 | 3.275 | 23.6 | 163.2 | --- | --- | -0.45 | 0.299 | 121.6 | 241.6 | -3.2 | 0.239 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2610 | 4-3310 | 0.359 | 348.2 | -8.5 | -0.91 | 1.288 | 80.4 | 0.696 | 3.232 | 23.3 | 164.7 | --- | --- | -0.47 | 0.292 | 119.2 | 240.3 | -3.2 | 0.231 |
| 4-2610 | 4-3330 | 0.357 | 348.5 | -8.3 | -0.88 | 1.286 | 80.6 | 0.692 | 3.196 | 23.0 | 166.1 | --- | --- | -0.49 | 0.285 | 116.8 | 239.0 | -3.2 | 0.223 |
| 4-2610 | 4-3350 | 0.354 | 349.0 | -8.1 | -0.86 | 1.285 | 80.8 | 0.689 | 3.167 | 22.7 | 167.5 | --- | --- | -0.51 | 0.279 | 114.5 | 237.7 | -3.2 | 0.217 |
| 4-2610 | 4-3370 | 0.351 | 349.5 | -7.8 | -0.83 | 1.284 | 81.0 | 0.686 | 3.143 | 22.2 | 168.8 | --- | --- | -0.53 | 0.273 | 112.2 | 236.4 | -3.2 | 0.212 |
| 4-2610 | 4-3390 | 0.348 | 350.0 | -7.5 | -0.80 | 1.284 | 81.2 | 0.684 | 3.124 | 21.8 | 170.1 | --- | --- | -0.56 | 0.269 | 109.9 | 235.1 | -3.2 | 0.207 |
| 4-2610 | 4-3410 | 0.345 | 350.6 | -7.1 | -0.77 | 1.283 | 81.4 | 0.682 | 3.109 | 21.2 | 171.3 | --- | --- | -0.58 | 0.265 | 107.6 | 233.8 | -3.2 | 0.203 |
| 4-2610 | 4-3430 | 0.343 | 351.3 | -6.7 | -0.73 | 1.283 | 81.7 | 0.680 | 3.098 | 20.7 | 172.4 | --- | --- | -0.62 | 0.262 | 105.4 | 232.6 | -3.2 | 0.200 |
| 4-2610 | 4-3450 | 0.340 | 352.1 | -6.2 | -0.69 | 1.282 | 81.9 | 0.679 | 3.089 | 20.0 | 173.5 | --- | --- | -0.65 | 0.259 | 103.2 | 231.4 | -3.2 | 0.197 |
| 4-2610 | 4-3470 | 0.337 | 352.9 | -5.7 | -0.64 | 1.282 | 82.2 | 0.678 | 3.083 | 19.4 | 174.6 | --- | --- | -0.70 | 0.257 | 101.1 | 230.3 | -3.3 | 0.195 |
| 4-2610 | 4-3490 | 0.334 | 353.7 | -5.2 | -0.59 | 1.282 | 82.5 | 0.677 | 3.079 | 18.7 | 175.6 | --- | --- | -0.74 | 0.255 | 99.1 | 229.2 | -3.3 | 0.193 |
| 4-2610 | 4-3510 | 0.332 | 354.6 | -4.5 | -0.53 | 1.282 | 82.8 | 0.676 | 3.077 | 18.0 | 176.6 | --- | --- | -0.80 | 0.253 | 97.1 | 228.3 | -3.3 | 0.192 |
| 4-2610 | 4-3530 | 0.329 | 355.5 | -3.9 | -0.46 | 1.282 | 83.1 | 0.676 | 3.077 | 17.2 | 177.5 | --- | --- | -0.87 | 0.252 | 95.2 | 227.4 | -3.4 | 0.192 |
| 4-2610 | 4-3550 | 0.326 | 356.5 | -3.1 | -0.37 | 1.282 | 83.4 | 0.675 | 3.078 | 16.4 | 178.4 | --- | --- | -0.94 | 0.252 | 93.3 | 226.6 | -3.5 | 0.191 |
| 4-2610 | 4-3570 | 0.324 | 357.5 | -2.3 | -0.27 | 1.282 | 83.7 | 0.675 | 3.081 | 15.6 | 179.3 | --- | --- | -1.04 | 0.251 | 91.5 | 225.9 | -3.6 | 0.191 |
| 4-2610 | 4-3590 | 0.321 | 358.5 | -1.3 | -0.15 | 1.282 | 84.1 | 0.675 | 3.085 | 14.7 | 180.1 | --- | 5.167 | -1.16 | 0.251 | 89.8 | 225.2 | -3.7 | 0.191 |
| 4-2610 | 4-3610 | 0.319 | 359.5 | -0.2 | -0.00 | 1.282 | 84.4 | 0.675 | 3.090 | 13.8 | 180.9 | --- | 5.176 | -1.30 | 0.251 | 88.1 | 224.7 | -3.9 | 0.192 |
| 4-2610 | 4-3630 | 0.317 | 0.4 | 1.0 | 0.19 | 1.282 | 84.8 | 0.675 | 3.096 | 12.9 | 181.7 | --- | 5.186 | -1.49 | 0.251 | 86.5 | 224.3 | -4.1 | 0.193 |
| 4-2610 | 4-3650 | 0.315 | 1.3 | 2.6 | 0.45 | 1.283 | 85.2 | 0.675 | 3.103 | 12.0 | 182.4 | --- | 5.199 | -1.75 | 0.251 | 85.0 | 223.9 | -4.4 | 0.194 |
| 4-2610 | 4-3670 | 0.313 | 2.1 | 4.6 | 0.82 | 1.283 | 85.5 | 0.676 | 3.111 | 11.1 | 183.2 | --- | 5.213 | -2.12 | 0.252 | 83.5 | 223.7 | -4.8 | 0.195 |
| 4-2610 | 4-3690 | 0.312 | 2.6 | 7.3 | 1.39 | 1.283 | 85.9 | 0.676 | 3.119 | 10.1 | 183.9 | --- | 5.228 | -2.67 | 0.252 | 82.0 | 223.5 | -5.5 | 0.197 |
| 4-2610 | 4-3710 | 0.313 | 2.4 | 11.6 | 2.35 | 1.284 | 86.3 | 0.677 | 3.128 | 9.2 | 184.5 | --- | 5.245 | -3.63 | 0.253 | 80.7 | 223.4 | -6.7 | 0.199 |
| 4-2610 | 4-3730 | 0.320 | 0.3 | 19.6 | 4.37 | 1.284 | 86.7 | 0.677 | 3.138 | 8.2 | 185.2 | --- | 5.263 | -5.65 | 0.254 | 79.3 | 223.4 | -9.1 | 0.202 |
| 4-2610 | 4-3750 | 0.378 | 348.0 | 41.1 | 11.32 | 1.285 | 87.1 | 0.678 | 3.148 | 7.2 | 185.8 | --- | 5.283 | -12.60 | 0.255 | 78.0 | 223.6 | -16.9 | 0.213 |
| 4-2610 | 4-3770 | 0.864 | 91.5 | -70.9 | -42.17 | 1.285 | 87.6 | 0.679 | 3.159 | 6.0 | 186.4 | --- | 5.303 | 40.89 | 0.256 | 76.8 | 230.3 | 29.8 | 0.306 |
| 4-2610 | 4-3790 | 0.359 | 27.6 | -28.6 | -9.67 | 1.285 | 88.0 | 0.680 | 3.169 | 5.0 | 187.0 | --- | 5.324 | 8.41 | 0.257 | 75.6 | 224.7 | 7.9 | 0.210 |
| 4-2610 | 4-3810 | 0.325 | 23.5 | -16.0 | -5.89 | 1.286 | 88.4 | 0.681 | 3.181 | 4.0 | 187.6 | --- | 5.346 | 4.63 | 0.258 | 74.5 | 224.6 | 3.4 | 0.208 |
| 4-2610 | 4-3830 | 0.316 | 23.0 | -10.2 | -4.45 | 1.286 | 88.8 | 0.682 | 3.193 | 2.9 | 188.2 | --- | 5.369 | 3.19 | 0.260 | 73.4 | 224.8 | 1.7 | 0.209 |
| 4-2610 | 4-3850 | 0.312 | 23.5 | -6.8 | -3.70 | 1.287 | 89.2 | 0.683 | 3.205 | 1.9 | 188.7 | --- | 5.393 | 2.44 | 0.261 | 72.3 | 225.1 | 0.7 | 0.210 |
| 4-2610 | 4-3870 | 0.310 | 24.5 | -4.3 | -3.23 | 1.287 | 89.7 | 0.684 | 3.217 | 0.8 | 189.3 | --- | 5.417 | 1.98 | 0.262 | 71.3 | 225.6 | 0.1 | 0.212 |
| 4-2610 | 4-3890 | 0.309 | 25.7 | -2.4 | -2.91 | 1.288 | 90.1 | 0.685 | 3.229 | 359.7 | 549.8 | 1.016 | 5.442 | 1.66 | 0.264 | 70.3 | 226.1 | -0.3 | 0.214 |
| 4-2610 | 4-3910 | 0.309 | 27.1 | -0.8 | -2.68 | 1.288 | 90.6 | 0.687 | 3.242 | 358.6 | 550.3 | 1.016 | 5.468 | 1.44 | 0.265 | 69.3 | 226.6 | -0.6 | 0.216 |
| 4-2610 | 4-3930 | 0.309 | 28.7 | 0.5 | -2.50 | 1.289 | 91.0 | 0.688 | 3.255 | 357.4 | 550.8 | 1.016 | 5.494 | 1.27 | 0.266 | 68.4 | 227.2 | -0.8 | 0.218 |
| 4-2610 | 4-3950 | 0.310 | 30.2 | 1.8 | -2.37 | 1.289 | 91.5 | 0.689 | 3.268 | 356.3 | 551.2 | 1.016 | 5.521 | 1.13 | 0.268 | 67.5 | 227.8 | -1.0 | 0.220 |
| 4-2610 | 4-3970 | 0.311 | 31.9 | 2.9 | -2.26 | 1.290 | 92.0 | 0.691 | 3.282 | 355.2 | 551.7 | 1.015 | 5.548 | 1.03 | 0.269 | 66.6 | 228.5 | -1.2 | 0.222 |
| 4-2610 | 4-3990 | 0.312 | 33.5 | 4.0 | -2.16 | 1.290 | 92.4 | 0.692 | 3.295 | 354.0 | 552.1 | 1.014 | 5.576 | 0.94 | 0.271 | 65.8 | 229.2 | -1.3 | 0.224 |
| 4-2610 | 4-4010 | 0.314 | 35.3 | 5.0 | -2.09 | 1.291 | 92.9 | 0.694 | 3.309 | 352.9 | 552.6 | 1.013 | 5.604 | 0.87 | 0.272 | 64.9 | 230.0 | -1.4 | 0.226 |
| 4-2610 | 4-4030 | 0.316 | 37.0 | 5.9 | -2.02 | 1.291 | 93.4 | 0.695 | 3.322 | 351.7 | 553.0 | 1.012 | 5.633 | 0.80 | 0.274 | 64.1 | 230.8 | -1.5 | 0.228 |
| 4-2610 | 4-4050 | 0.319 | 38.7 | 6.8 | -1.96 | 1.292 | 93.9 | 0.697 | 3.336 | 350.5 | 553.4 | 1.011 | 5.662 | 0.75 | 0.275 | 63.4 | 231.6 | -1.6 | 0.230 |
| 4-2610 | 4-4070 | 0.321 | 40.5 | 7.7 | -1.91 | 1.292 | 94.4 | 0.699 | 3.350 | 349.3 | 553.8 | 1.009 | 5.691 | 0.70 | 0.277 | 62.6 | 232.4 | -1.7 | 0.232 |
| 4-2610 | 4-4090 | 0.324 | 42.2 | 8.5 | -1.87 | 1.292 | 94.9 | 0.701 | 3.364 | 348.1 | 554.2 | 1.008 | 5.721 | 0.66 | 0.278 | 61.9 | 233.3 | -1.8 | 0.235 |
| 4-2610 | 4-4110 | 0.328 | 44.0 | 9.2 | -1.83 | 1.293 | 95.4 | 0.702 | 3.378 | 346.9 | 554.6 | 1.006 | 5.751 | 0.63 | 0.279 | 61.1 | 234.2 | -1.8 | 0.237 |
| 4-2610 | 4-4130 | 0.331 | 45.8 | 10.0 | -1.79 | 1.293 | 95.9 | 0.704 | 3.392 | 345.7 | 554.9 | 1.004 | 5.781 | 0.60 | 0.281 | 60.4 | 235.2 | -1.9 | 0.239 |
| 4-2610 | 4-4150 | 0.335 | 47.5 | 10.7 | -1.76 | 1.294 | 96.4 | 0.706 | 3.407 | 344.5 | 555.3 | 1.001 | 5.812 | 0.57 | 0.282 | 59.7 | 236.1 | -2.0 | 0.241 |
| 4-2610 | 4-4170 | 0.339 | 49.3 | 11.4 | -1.73 | 1.294 | 96.9 | 0.708 | 3.421 | 343.3 | 555.6 | 0.999 | 5.843 | 0.55 | 0.284 | 59.1 | 237.1 | -2.0 | 0.243 |
| 4-2610 | 4-4190 | 0.344 | 51.0 | 12.0 | -1.71 | 1.295 | 97.4 | 0.710 | 3.435 | 342.1 | 556.0 | 0.996 | 5.875 | 0.52 | 0.285 | 58.4 | 238.1 | -2.1 | 0.245 |
| 4-2610 | 4-4210 | 0.349 | 52.7 | 12.6 | -1.68 | 1.295 | 98.0 | 0.712 | 3.450 | 340.8 | 556.3 | 0.993 | 5.906 | 0.50 | 0.287 | 57.8 | 239.2 | -2.1 | 0.247 |
| 4-2620 | 4-2880 | 0.631 | 8.0 | 0.3 | -1.18 | 1.577 | 80.5 | 1.515 | -1.928 | 15.8 | 109.2 | --- | --- | -0.50 | 0.960 | 160.7 | 250.6 | -3.1 | 0.909 |
| 4-2620 | 4-2900 | 0.590 | 5.2 | -1.0 | -1.16 | 1.529 | 79.8 | 1.363 | -2.723 | 17.7 | 112.9 | --- | --- | -0.50 | 0.877 | 159.5 | 250.8 | -3.1 | 0.827 |
| 4-2620 | 4-2920 | 0.558 | 2.6 | -2.1 | -1.15 | 1.489 | 79.1 | 1.243 | -4.048 | 19.6 | 116.6 | --- | --- | -0.50 | 0.806 | 158.3 | 250.9 | -3.1 | 0.756 |
| 4-2620 | 4-2940 | 0.532 | 0.1 | -3.8 | -1.13 | 1.456 | 78.5 | 1.147 | -6.654 | 21.4 | 120.3 | --- | --- | -0.50 | 0.743 | 156.9 | 251.0 | -3.1 | 0.694 |
| 4-2620 | 4-2960 | 0.513 | 357.8 | -4.3 | -1.11 | 1.429 | 78.0 | 1.070 | 13.986 | 23.2 | 123.8 | --- | --- | -0.51 | 0.688 | 155.5 | 251.1 | -3.1 | 0.639 |
| 4-2620 | 4-2980 | 0.497 | 355.6 | -5.2 | -1.10 | 1.406 | 77.5 | 1.007 | 44.574 | 24.9 | 127.3 | --- | --- | -0.51 | 0.639 | 154.0 | 251.1 | -3.1 | 0.591 |
| 4-2620 | 4-3000 | 0.484 | 353.7 | -6.0 | -1.08 | 1.387 | 77.1 | 0.955 | 21.580 | 26.4 | 130.6 | --- | --- | -0.51 | 0.596 | 152.5 | 251.0 | -3.2 | 0.547 |
| 4-2620 | 4-3020 | 0.474 | 352.0 | -6.7 | -1.06 | 1.371 | 76.8 | 0.913 | 11.018 | 27.8 | 133.8 | --- | --- | -0.52 | 0.557 | 150.8 | 250.8 | -3.2 | 0.509 |
| 4-2620 | 4-3040 | 0.466 | 350.6 | -7.3 | -1.05 | 1.357 | 76.4 | 0.878 | 7.817 | 29.0 | 136.9 | --- | --- | -0.52 | 0.522 | 149.1 | 250.6 | -3.2 | 0.474 |
| 4-2620 | 4-3060 | 0.459 | 349.3 | -7.8 | -1.03 | 1.345 | 76.2 | 0.848 | 6.282 | 30.1 | 139.8 | --- | --- | -0.53 | 0.491 | 147.3 | 250.3 | -3.2 | 0.442 |
| 4-2620 | 4-3080 | 0.454 | 348.2 | -8.2 | -1.01 | 1.336 | 76.0 | 0.824 | 5.389 | 31.1 | 142.5 | --- | --- | -0.54 | 0.463 | 145.4 | 249.9 | -3.2 | 0.414 |
| 4-2620 | 4-3100 | 0.448 | 347.2 | -8.6 | -0.99 | 1.327 | 75.8 | 0.803 | 4.810 | 31.9 | 145.2 | --- | --- | -0.54 | 0.437 | 143.4 | 249.4 | -3.2 | 0.389 |
| 4-2620 | 4-3120 | 0.444 | 346.5 | -8.8 | -0.97 | 1.320 | 75.7 | 0.786 | 4.408 | 32.6 | 147.6 | --- | --- | -0.55 | 0.415 | 141.3 | 248.8 | -3.3 | 0.366 |
| 4-2620 | 4-3140 | 0.440 | 345.9 | -9.0 | -0.95 | 1.314 | 75.6 | 0.771 | 4.115 | 33.1 | 150.0 | --- | --- | -0.56 | 0.394 | 139.2 | 248.2 | -3.3 | 0.345 |
| 4-2620 | 4-3160 | 0.436 | 345.4 | -9.2 | -0.93 | 1.309 | 75.6 | 0.758 | 3.895 | 33.6 | 152.2 | --- | --- | -0.57 | 0.376 | 137.0 | 247.4 | -3.3 | 0.326 |
| 4-2620 | 4-3180 | 0.433 | 345.0 | -9.3 | -0.91 | 1.304 | 75.6 | 0.747 | 3.725 | 33.9 | 154.2 | --- | --- | -0.58 | 0.359 | 134.8 | 246.6 | -3.3 | 0.309 |
| 4-2620 | 4-3200 | 0.429 | 344.8 | -9.3 | -0.89 | 1.300 | 75.6 | 0.738 | 3.591 | 34.1 | 156.2 | --- | --- | -0.59 | 0.344 | 132.5 | 245.7 | -3.3 | 0.293 |
| 4-2620 | 4-3220 | 0.426 | 344.7 | -9.3 | -0.87 | 1.297 | 75.7 | 0.730 | 3.484 | 34.2 | 158.1 | --- | --- | -0.60 | 0.331 | 130.1 | 244.7 | -3.3 | 0.279 |
| 4-2620 | 4-3240 | 0.422 | 344.6 | -9.3 | -0.85 | 1.294 | 75.7 | 0.723 | 3.398 | 34.2 | 159.8 | --- | --- | -0.61 | 0.319 | 127.8 | 243.6 | -3.3 | 0.267 |
| 4-2620 | 4-3260 | 0.419 | 344.7 | -9.2 | -0.82 | 1.292 | 75.9 | 0.717 | 3.329 | 34.1 | 161.5 | --- | --- | -0.63 | 0.309 | 125.4 | 242.5 | -3.3 | 0.256 |
| 4-2620 | 4-3280 | 0.416 | 344.8 | -9.1 | -0.80 | 1.290 | 76.0 | 0.712 | 3.272 | 33.9 | 163.1 | --- | --- | -0.64 | 0.299 | 122.9 | 241.3 | -3.3 | 0.246 |
| 4-2620 | 4-3300 | 0.412 | 345.0 | -8.9 | -0.77 | 1.288 | 76.1 | 0.707 | 3.225 | 33.7 | 164.6 | --- | --- | -0.66 | 0.291 | 120.5 | 240.0 | -3.4 | 0.237 |
| 4-2620 | 4-3320 | 0.409 | 345.3 | -8.8 | -0.75 | 1.287 | 76.3 | 0.703 | 3.187 | 33.4 | 166.0 | --- | --- | -0.68 | 0.284 | 118.1 | 238.8 | -3.4 | 0.230 |
| 4-2620 | 4-3340 | 0.405 | 345.7 | -8.5 | -0.72 | 1.285 | 76.5 | 0.700 | 3.156 | 33.0 | 167.4 | --- | --- | -0.70 | 0.277 | 115.7 | 237.5 | -3.4 | 0.223 |
| 4-2620 | 4-3360 | 0.402 | 346.1 | -8.3 | -0.69 | 1.284 | 76.7 | 0.697 | 3.131 | 32.5 | 168.7 | --- | --- | -0.72 | 0.272 | 113.3 | 236.2 | -3.4 | 0.217 |
| 4-2620 | 4-3380 | 0.398 | 346.5 | -8.0 | -0.65 | 1.284 | 77.0 | 0.694 | 3.111 | 32.0 | 169.9 | --- | --- | -0.74 | 0.267 | 110.9 | 234.9 | -3.4 | 0.212 |
| 4-2620 | 4-3400 | 0.394 | 347.1 | -7.7 | -0.62 | 1.283 | 77.2 | 0.692 | 3.096 | 31.5 | 171.1 | --- | --- | -0.77 | 0.263 | 108.6 | 233.7 | -3.4 | 0.208 |
| 4-2620 | 4-3420 | 0.391 | 347.6 | -7.3 | -0.58 | 1.283 | 77.5 | 0.690 | 3.083 | 30.9 | 172.3 | --- | --- | -0.80 | 0.259 | 106.3 | 232.5 | -3.4 | 0.204 |
| 4-2620 | 4-3440 | 0.387 | 348.3 | -7.0 | -0.54 | 1.282 | 77.7 | 0.688 | 3.074 | 30.3 | 173.3 | --- | --- | -0.83 | 0.257 | 104.1 | 231.3 | -3.4 | 0.201 |
| 4-2620 | 4-3460 | 0.383 | 348.9 | -6.5 | -0.50 | 1.282 | 78.0 | 0.687 | 3.068 | 29.6 | 174.4 | --- | --- | -0.87 | 0.254 | 102.0 | 230.2 | -3.4 | 0.199 |
| 4-2620 | 4-3480 | 0.379 | 349.6 | -6.1 | -0.45 | 1.282 | 78.3 | 0.685 | 3.064 | 28.9 | 175.4 | --- | --- | -0.90 | 0.252 | 99.9 | 229.2 | -3.5 | 0.197 |
| 4-2620 | 4-3500 | 0.375 | 350.4 | -5.6 | -0.40 | 1.282 | 78.6 | 0.684 | 3.062 | 28.1 | 176.3 | --- | --- | -0.95 | 0.251 | 97.8 | 228.2 | -3.5 | 0.196 |
| 4-2620 | 4-3520 | 0.372 | 351.2 | -5.1 | -0.35 | 1.282 | 78.9 | 0.683 | 3.062 | 27.4 | 177.3 | --- | --- | -1.00 | 0.250 | 95.9 | 227.3 | -3.5 | 0.195 |
| 4-2620 | 4-3540 | 0.368 | 352.0 | -4.5 | -0.28 | 1.282 | 79.3 | 0.683 | 3.064 | 26.5 | 178.2 | --- | --- | -1.05 | 0.249 | 94.0 | 226.5 | -3.6 | 0.194 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2620 | 4-3560 | 0.364 | 352.9 | -3.9 | -0.21 | 1.282 | 79.6 | 0.682 | 3.066 | 25.7 | 179.0 | --- | --- | -1.11 | 0.249 | 92.1 | 225.8 | -3.6 | 0.194 |
| 4-2620 | 4-3580 | 0.360 | 353.8 | -3.2 | -0.14 | 1.282 | 80.0 | 0.682 | 3.071 | 24.8 | 179.8 | --- | --- | -1.18 | 0.248 | 90.3 | 225.2 | -3.7 | 0.194 |
| 4-2620 | 4-3600 | 0.357 | 354.7 | -2.5 | -0.05 | 1.282 | 80.3 | 0.681 | 3.076 | 24.0 | 180.6 | --- | 5.172 | -1.26 | 0.248 | 88.6 | 224.7 | -3.8 | 0.194 |
| 4-2620 | 4-3620 | 0.353 | 355.7 | -1.7 | 0.05 | 1.282 | 80.7 | 0.681 | 3.082 | 23.1 | 181.4 | --- | 5.182 | -1.35 | 0.249 | 87.0 | 224.3 | -3.9 | 0.195 |
| 4-2620 | 4-3640 | 0.349 | 356.6 | -0.8 | 0.17 | 1.283 | 81.1 | 0.681 | 3.089 | 22.1 | 182.1 | --- | 5.193 | -1.46 | 0.249 | 85.4 | 223.9 | -4.0 | 0.196 |
| 4-2620 | 4-3660 | 0.346 | 357.6 | 0.2 | 0.30 | 1.283 | 81.4 | 0.681 | 3.097 | 21.2 | 182.9 | --- | 5.207 | -1.59 | 0.250 | 83.9 | 223.7 | -4.1 | 0.197 |
| 4-2620 | 4-3680 | 0.342 | 358.6 | 1.3 | 0.46 | 1.283 | 81.8 | 0.681 | 3.106 | 20.2 | 183.6 | --- | 5.222 | -1.74 | 0.250 | 82.5 | 223.5 | -4.3 | 0.198 |
| 4-2620 | 4-3700 | 0.339 | 359.5 | 2.5 | 0.66 | 1.284 | 82.2 | 0.681 | 3.115 | 19.2 | 184.2 | --- | 5.238 | -1.93 | 0.251 | 81.1 | 223.4 | -4.5 | 0.199 |
| 4-2620 | 4-3720 | 0.336 | 0.5 | 3.9 | 0.90 | 1.284 | 82.6 | 0.682 | 3.125 | 18.2 | 184.9 | --- | 5.255 | -2.16 | 0.252 | 79.7 | 223.4 | -4.8 | 0.200 |
| 4-2620 | 4-3740 | 0.333 | 1.3 | 5.6 | 1.21 | 1.285 | 83.0 | 0.682 | 3.136 | 17.2 | 185.5 | --- | 5.274 | -2.46 | 0.253 | 78.5 | 223.4 | -5.1 | 0.202 |
| 4-2620 | 4-3760 | 0.331 | 2.0 | 7.7 | 1.61 | 1.285 | 83.4 | 0.682 | 3.147 | 16.2 | 186.1 | --- | 5.294 | -2.86 | 0.254 | 77.2 | 223.6 | -5.6 | 0.204 |
| 4-2620 | 4-3780 | 0.329 | 2.6 | 10.3 | 2.17 | 1.286 | 83.9 | 0.683 | 3.158 | 15.1 | 186.7 | --- | 5.314 | -3.42 | 0.255 | 76.0 | 223.8 | -6.2 | 0.206 |
| 4-2620 | 4-3800 | 0.329 | 2.6 | 13.9 | 3.00 | 1.286 | 84.3 | 0.683 | 3.170 | 14.1 | 187.3 | --- | 5.336 | -4.24 | 0.257 | 74.9 | 224.0 | -7.2 | 0.208 |
| 4-2620 | 4-3820 | 0.333 | 1.8 | 19.3 | 4.35 | 1.286 | 84.7 | 0.684 | 3.182 | 13.0 | 187.9 | --- | 5.358 | -5.57 | 0.258 | 73.8 | 224.4 | -8.7 | 0.210 |
| 4-2620 | 4-3840 | 0.347 | 358.5 | 28.4 | 6.92 | 1.287 | 85.1 | 0.685 | 3.194 | 11.9 | 188.4 | --- | 5.381 | -8.14 | 0.259 | 72.7 | 224.8 | -11.6 | 0.215 |
| 4-2620 | 4-3860 | 0.416 | 345.2 | 46.3 | 13.74 | 1.287 | 85.6 | 0.686 | 3.207 | 10.9 | 189.0 | --- | 5.405 | -14.96 | 0.261 | 71.7 | 225.8 | -18.5 | 0.228 |
| 4-2620 | 4-3880 | 1.205 | 249.1 | 50.3 | 62.27 | 1.288 | 85.9 | 0.686 | 3.219 | 10.0 | 189.5 | --- | 5.429 | -63.47 | 0.262 | 70.7 | 236.4 | -35.7 | 0.405 |
| 4-2620 | 4-3900 | 0.520 | 45.1 | -52.1 | -21.27 | 1.288 | 86.5 | 0.687 | 3.233 | 8.5 | 190.0 | --- | 5.454 | 20.07 | 0.264 | 69.8 | 229.1 | 18.1 | 0.243 |
| 4-2620 | 4-3920 | 0.376 | 32.6 | -29.4 | -10.71 | 1.289 | 87.0 | 0.688 | 3.246 | 7.4 | 190.5 | --- | 5.479 | 9.52 | 0.265 | 68.9 | 227.8 | 8.3 | 0.224 |
| 4-2620 | 4-3940 | 0.343 | 29.8 | -18.9 | -7.41 | 1.289 | 87.4 | 0.689 | 3.259 | 6.3 | 190.9 | --- | 5.506 | 6.22 | 0.267 | 68.0 | 228.0 | 4.7 | 0.222 |
| 4-2620 | 4-3960 | 0.330 | 29.3 | -12.9 | -5.80 | 1.290 | 87.9 | 0.690 | 3.273 | 5.2 | 191.4 | --- | 5.532 | 4.62 | 0.268 | 67.1 | 228.5 | 2.8 | 0.222 |
| 4-2620 | 4-3980 | 0.323 | 29.8 | -8.9 | -4.85 | 1.290 | 88.3 | 0.691 | 3.287 | 4.1 | 191.9 | --- | 5.559 | 3.68 | 0.270 | 66.3 | 229.2 | 1.7 | 0.224 |
| 4-2620 | 4-4000 | 0.319 | 30.7 | -6.0 | -4.22 | 1.291 | 88.8 | 0.692 | 3.301 | 2.9 | 192.3 | --- | 5.586 | 3.06 | 0.271 | 65.5 | 229.9 | 1.0 | 0.225 |
| 4-2620 | 4-4020 | 0.316 | 31.9 | -3.7 | -3.78 | 1.291 | 89.3 | 0.694 | 3.315 | 1.7 | 192.7 | --- | 5.614 | 2.62 | 0.273 | 64.7 | 230.6 | 0.5 | 0.227 |
| 4-2620 | 4-4040 | 0.315 | 33.3 | -1.8 | -3.45 | 1.292 | 89.8 | 0.695 | 3.329 | 0.6 | 193.1 | --- | 5.642 | 2.29 | 0.274 | 64.0 | 231.4 | 0.1 | 0.229 |
| 4-2620 | 4-4060 | 0.314 | 34.8 | -0.1 | -3.19 | 1.292 | 90.2 | 0.696 | 3.343 | 359.4 | 553.5 | 1.016 | 5.671 | 2.04 | 0.276 | 63.2 | 232.2 | -0.2 | 0.231 |
| 4-2620 | 4-4080 | 0.314 | 36.4 | 1.4 | -2.98 | 1.293 | 90.7 | 0.698 | 3.358 | 358.2 | 553.9 | 1.016 | 5.700 | 1.84 | 0.277 | 62.5 | 233.1 | -0.5 | 0.232 |
| 4-2620 | 4-4100 | 0.314 | 38.1 | 2.7 | -2.81 | 1.293 | 91.2 | 0.699 | 3.372 | 357.0 | 554.3 | 1.015 | 5.729 | 1.68 | 0.279 | 61.8 | 233.9 | -0.7 | 0.234 |
| 4-2620 | 4-4120 | 0.315 | 39.8 | 3.9 | -2.67 | 1.294 | 91.7 | 0.700 | 3.386 | 355.8 | 554.7 | 1.015 | 5.758 | 1.54 | 0.280 | 61.1 | 234.9 | -0.9 | 0.236 |
| 4-2620 | 4-4140 | 0.316 | 41.5 | 5.1 | -2.55 | 1.294 | 92.2 | 0.702 | 3.401 | 354.6 | 555.1 | 1.014 | 5.788 | 1.43 | 0.282 | 60.5 | 235.8 | -1.1 | 0.238 |
| 4-2620 | 4-4160 | 0.317 | 43.3 | 6.1 | -2.44 | 1.295 | 92.7 | 0.703 | 3.416 | 353.4 | 555.4 | 1.013 | 5.818 | 1.33 | 0.283 | 59.8 | 236.8 | -1.2 | 0.240 |
| 4-2620 | 4-4180 | 0.319 | 45.2 | 7.1 | -2.35 | 1.295 | 93.2 | 0.705 | 3.430 | 352.2 | 555.8 | 1.012 | 5.849 | 1.25 | 0.285 | 59.2 | 237.7 | -1.3 | 0.242 |
| 4-2620 | 4-4200 | 0.322 | 47.0 | 8.1 | -2.27 | 1.296 | 93.7 | 0.707 | 3.445 | 351.0 | 556.1 | 1.011 | 5.879 | 1.18 | 0.286 | 58.6 | 238.7 | -1.4 | 0.244 |
| 4-2620 | 4-4220 | 0.324 | 48.8 | 9.0 | -2.20 | 1.296 | 94.2 | 0.708 | 3.460 | 349.8 | 556.4 | 1.009 | 5.910 | 1.11 | 0.288 | 58.0 | 239.8 | -1.5 | 0.246 |
| 4-2630 | 4-2910 | 0.640 | 359.8 | -2.9 | -1.15 | 1.513 | 73.4 | 1.298 | -3.157 | 29.3 | 115.8 | --- | --- | -0.69 | 0.848 | 159.6 | 250.5 | -3.1 | 0.802 |
| 4-2630 | 4-2930 | 0.612 | 357.4 | -4.0 | -1.13 | 1.475 | 73.0 | 1.190 | -4.905 | 31.3 | 119.6 | --- | --- | -0.69 | 0.778 | 158.3 | 250.6 | -3.2 | 0.734 |
| 4-2630 | 4-2950 | 0.591 | 355.2 | -4.9 | -1.10 | 1.444 | 72.5 | 1.105 | -8.845 | 33.2 | 123.4 | --- | --- | -0.69 | 0.717 | 157.0 | 250.6 | -3.2 | 0.674 |
| 4-2630 | 4-2970 | 0.574 | 353.2 | -5.7 | -1.08 | 1.418 | 72.2 | 1.036 | 25.489 | 35.0 | 127.0 | --- | --- | -0.69 | 0.664 | 155.5 | 250.5 | -3.2 | 0.621 |
| 4-2630 | 4-2990 | 0.560 | 351.5 | -6.4 | -1.06 | 1.397 | 71.8 | 0.981 | 47.113 | 36.7 | 130.5 | --- | --- | -0.69 | 0.616 | 154.0 | 250.4 | -3.2 | 0.574 |
| 4-2630 | 4-3010 | 0.549 | 349.9 | -7.0 | -1.04 | 1.379 | 71.6 | 0.935 | 14.040 | 38.2 | 133.8 | --- | --- | -0.70 | 0.574 | 152.4 | 250.2 | -3.2 | 0.532 |
| 4-2630 | 4-3030 | 0.540 | 348.6 | -7.5 | -1.02 | 1.363 | 71.3 | 0.898 | 8.866 | 39.6 | 137.0 | --- | --- | -0.70 | 0.536 | 150.7 | 250.0 | -3.3 | 0.495 |
| 4-2630 | 4-3050 | 0.533 | 347.5 | -8.0 | -0.99 | 1.351 | 71.1 | 0.867 | 6.779 | 40.7 | 139.9 | --- | --- | -0.70 | 0.503 | 148.9 | 249.6 | -3.3 | 0.461 |
| 4-2630 | 4-3070 | 0.526 | 346.5 | -8.3 | -0.97 | 1.340 | 71.0 | 0.842 | 5.660 | 41.8 | 142.8 | --- | --- | -0.71 | 0.472 | 147.1 | 249.2 | -3.3 | 0.431 |
| 4-2630 | 4-3090 | 0.521 | 345.7 | -8.6 | -0.95 | 1.331 | 70.9 | 0.820 | 4.969 | 42.6 | 145.4 | --- | --- | -0.71 | 0.445 | 145.1 | 248.7 | -3.3 | 0.404 |
| 4-2630 | 4-3110 | 0.516 | 345.1 | -8.8 | -0.93 | 1.323 | 70.8 | 0.802 | 4.504 | 43.3 | 147.9 | --- | --- | -0.72 | 0.421 | 143.1 | 248.1 | -3.3 | 0.380 |
| 4-2630 | 4-3130 | 0.511 | 344.5 | -9.0 | -0.90 | 1.316 | 70.8 | 0.787 | 4.173 | 43.9 | 150.3 | --- | --- | -0.72 | 0.399 | 140.9 | 247.5 | -3.3 | 0.358 |
| 4-2630 | 4-3150 | 0.507 | 344.2 | -9.1 | -0.88 | 1.310 | 70.8 | 0.774 | 3.929 | 44.3 | 152.5 | --- | --- | -0.73 | 0.379 | 138.7 | 246.7 | -3.4 | 0.338 |
| 4-2630 | 4-3170 | 0.502 | 343.9 | -9.1 | -0.86 | 1.306 | 70.8 | 0.763 | 3.742 | 44.6 | 154.6 | --- | --- | -0.74 | 0.361 | 136.5 | 245.9 | -3.4 | 0.320 |
| 4-2630 | 4-3190 | 0.498 | 343.7 | -9.2 | -0.83 | 1.301 | 70.9 | 0.753 | 3.597 | 44.8 | 156.5 | --- | --- | -0.75 | 0.345 | 134.1 | 244.9 | -3.4 | 0.304 |
| 4-2630 | 4-3210 | 0.494 | 343.6 | -9.2 | -0.81 | 1.298 | 71.0 | 0.745 | 3.482 | 44.9 | 158.4 | --- | --- | -0.75 | 0.331 | 131.8 | 243.9 | -3.4 | 0.289 |
| 4-2630 | 4-3230 | 0.490 | 343.6 | -9.1 | -0.78 | 1.295 | 71.1 | 0.738 | 3.390 | 44.9 | 160.1 | --- | --- | -0.77 | 0.318 | 129.3 | 242.9 | -3.4 | 0.276 |
| 4-2630 | 4-3250 | 0.486 | 343.6 | -9.0 | -0.75 | 1.292 | 71.3 | 0.732 | 3.316 | 44.8 | 161.8 | --- | --- | -0.78 | 0.307 | 126.9 | 241.7 | -3.4 | 0.265 |
| 4-2630 | 4-3270 | 0.482 | 343.7 | -8.9 | -0.73 | 1.290 | 71.4 | 0.726 | 3.256 | 44.6 | 163.3 | --- | --- | -0.79 | 0.297 | 124.4 | 240.6 | -3.4 | 0.254 |
| 4-2630 | 4-3290 | 0.478 | 343.9 | -8.8 | -0.70 | 1.288 | 71.6 | 0.721 | 3.208 | 44.3 | 164.8 | --- | --- | -0.80 | 0.288 | 121.9 | 239.3 | -3.4 | 0.245 |
| 4-2630 | 4-3310 | 0.474 | 344.2 | -8.6 | -0.67 | 1.287 | 71.8 | 0.717 | 3.168 | 44.0 | 166.2 | --- | --- | -0.82 | 0.281 | 119.4 | 238.1 | -3.4 | 0.237 |
| 4-2630 | 4-3330 | 0.469 | 344.5 | -8.4 | -0.64 | 1.286 | 72.0 | 0.714 | 3.136 | 43.6 | 167.6 | --- | --- | -0.84 | 0.274 | 116.9 | 236.8 | -3.5 | 0.230 |
| 4-2630 | 4-3350 | 0.465 | 344.8 | -8.2 | -0.61 | 1.285 | 72.3 | 0.710 | 3.110 | 43.1 | 168.8 | --- | --- | -0.85 | 0.268 | 114.4 | 235.6 | -3.5 | 0.224 |
| 4-2630 | 4-3370 | 0.461 | 345.2 | -8.0 | -0.58 | 1.284 | 72.5 | 0.707 | 3.089 | 42.6 | 170.0 | --- | --- | -0.87 | 0.263 | 112.0 | 234.3 | -3.5 | 0.218 |
| 4-2630 | 4-3390 | 0.456 | 345.7 | -7.7 | -0.54 | 1.283 | 72.8 | 0.705 | 3.073 | 42.0 | 171.2 | --- | --- | -0.89 | 0.259 | 109.6 | 233.1 | -3.5 | 0.214 |
| 4-2630 | 4-3410 | 0.452 | 346.2 | -7.4 | -0.51 | 1.283 | 73.1 | 0.703 | 3.061 | 41.4 | 172.3 | --- | --- | -0.92 | 0.255 | 107.2 | 231.9 | -3.5 | 0.210 |
| 4-2630 | 4-3430 | 0.447 | 346.7 | -7.1 | -0.47 | 1.282 | 73.4 | 0.701 | 3.052 | 40.7 | 173.4 | --- | --- | -0.94 | 0.252 | 104.9 | 230.8 | -3.5 | 0.207 |
| 4-2630 | 4-3450 | 0.442 | 347.3 | -6.7 | -0.43 | 1.282 | 73.7 | 0.699 | 3.046 | 40.0 | 174.4 | --- | --- | -0.97 | 0.250 | 102.7 | 229.7 | -3.5 | 0.204 |
| 4-2630 | 4-3470 | 0.438 | 347.9 | -6.4 | -0.39 | 1.282 | 74.0 | 0.697 | 3.042 | 39.3 | 175.4 | --- | --- | -1.00 | 0.248 | 100.5 | 228.7 | -3.5 | 0.202 |
| 4-2630 | 4-3490 | 0.433 | 348.5 | -6.0 | -0.34 | 1.282 | 74.3 | 0.696 | 3.040 | 38.5 | 176.3 | --- | --- | -1.03 | 0.247 | 98.4 | 227.8 | -3.5 | 0.201 |
| 4-2630 | 4-3510 | 0.428 | 349.2 | -5.6 | -0.30 | 1.282 | 74.7 | 0.695 | 3.040 | 37.7 | 177.2 | --- | --- | -1.07 | 0.246 | 96.3 | 226.9 | -3.5 | 0.200 |
| 4-2630 | 4-3530 | 0.423 | 349.9 | -5.1 | -0.25 | 1.282 | 75.0 | 0.694 | 3.042 | 36.9 | 178.1 | --- | --- | -1.10 | 0.245 | 94.4 | 226.2 | -3.6 | 0.199 |
| 4-2630 | 4-3550 | 0.418 | 350.6 | -4.6 | -0.19 | 1.282 | 75.4 | 0.693 | 3.045 | 36.0 | 178.9 | --- | --- | -1.15 | 0.244 | 92.5 | 225.5 | -3.6 | 0.198 |
| 4-2630 | 4-3570 | 0.414 | 351.4 | -4.1 | -0.13 | 1.282 | 75.7 | 0.692 | 3.050 | 35.1 | 179.7 | --- | --- | -1.19 | 0.244 | 90.7 | 224.9 | -3.6 | 0.198 |
| 4-2630 | 4-3590 | 0.409 | 352.2 | -3.6 | -0.07 | 1.282 | 76.1 | 0.691 | 3.055 | 34.2 | 180.5 | --- | 5.168 | -1.25 | 0.244 | 88.9 | 224.4 | -3.7 | 0.198 |
| 4-2630 | 4-3610 | 0.404 | 353.0 | -3.0 | -0.00 | 1.283 | 76.5 | 0.691 | 3.062 | 33.3 | 181.2 | --- | 5.177 | -1.30 | 0.245 | 87.2 | 224.0 | -3.7 | 0.199 |
| 4-2630 | 4-3630 | 0.399 | 353.9 | -2.4 | 0.07 | 1.283 | 76.9 | 0.690 | 3.069 | 32.3 | 182.0 | --- | 5.189 | -1.37 | 0.245 | 85.6 | 223.6 | -3.8 | 0.199 |
| 4-2630 | 4-3650 | 0.394 | 354.7 | -1.7 | 0.16 | 1.283 | 77.3 | 0.690 | 3.078 | 31.4 | 182.7 | --- | 5.202 | -1.44 | 0.246 | 84.1 | 223.4 | -3.9 | 0.200 |
| 4-2630 | 4-3670 | 0.390 | 355.6 | -1.0 | 0.25 | 1.284 | 77.7 | 0.690 | 3.087 | 30.4 | 183.4 | --- | 5.216 | -1.52 | 0.247 | 82.6 | 223.2 | -4.0 | 0.201 |
| 4-2630 | 4-3690 | 0.385 | 356.5 | -0.2 | 0.35 | 1.284 | 78.1 | 0.690 | 3.097 | 29.4 | 184.0 | --- | 5.232 | -1.62 | 0.248 | 81.2 | 223.2 | -4.1 | 0.202 |
| 4-2630 | 4-3710 | 0.381 | 357.5 | 0.6 | 0.47 | 1.284 | 78.5 | 0.690 | 3.107 | 28.4 | 184.7 | --- | 5.249 | -1.72 | 0.249 | 79.8 | 223.2 | -4.2 | 0.203 |
| 4-2630 | 4-3730 | 0.376 | 358.4 | 1.5 | 0.60 | 1.285 | 78.9 | 0.689 | 3.118 | 27.4 | 185.3 | --- | 5.268 | -1.84 | 0.250 | 78.6 | 223.2 | -4.3 | 0.204 |
| 4-2630 | 4-3750 | 0.372 | 359.4 | 2.5 | 0.75 | 1.285 | 79.3 | 0.690 | 3.129 | 26.3 | 185.9 | --- | 5.287 | -1.98 | 0.251 | 77.3 | 223.4 | -4.5 | 0.206 |
| 4-2630 | 4-3770 | 0.367 | 0.3 | 3.6 | 0.93 | 1.286 | 79.7 | 0.690 | 3.141 | 25.3 | 186.5 | --- | 5.307 | -2.15 | 0.253 | 76.1 | 223.6 | -4.7 | 0.207 |
| 4-2630 | 4-3790 | 0.363 | 1.2 | 4.9 | 1.14 | 1.286 | 80.2 | 0.690 | 3.153 | 24.2 | 187.0 | --- | 5.328 | -2.35 | 0.254 | 75.0 | 223.8 | -4.9 | 0.209 |
| 4-2630 | 4-3810 | 0.359 | 2.1 | 6.3 | 1.39 | 1.287 | 80.6 | 0.690 | 3.166 | 23.1 | 187.6 | --- | 5.350 | -2.59 | 0.255 | 73.9 | 224.2 | -5.2 | 0.210 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2630 | 4-3830 | 0.356 | 2.9 | 7.9 | 1.70 | 1.287 | 81.0 | 0.690 | 3.178 | 22.0 | 188.1 | --- | 5.373 | -2.89 | 0.257 | 72.8 | 224.5 | -5.5 | 0.212 |
| 4-2630 | 4-3850 | 0.353 | 3.7 | 9.8 | 2.08 | 1.288 | 81.5 | 0.691 | 3.191 | 20.9 | 188.7 | --- | 5.396 | -3.26 | 0.258 | 71.8 | 225.0 | -5.9 | 0.214 |
| 4-2630 | 4-3870 | 0.350 | 4.3 | 12.1 | 2.58 | 1.288 | 81.9 | 0.691 | 3.205 | 19.8 | 189.2 | --- | 5.420 | -3.75 | 0.260 | 70.8 | 225.5 | -6.5 | 0.216 |
| 4-2630 | 4-3890 | 0.348 | 4.6 | 15.1 | 3.25 | 1.289 | 82.4 | 0.692 | 3.218 | 18.7 | 189.7 | --- | 5.444 | -4.42 | 0.262 | 69.9 | 226.0 | -7.2 | 0.218 |
| 4-2630 | 4-3910 | 0.349 | 4.4 | 19.0 | 4.21 | 1.289 | 82.8 | 0.692 | 3.232 | 17.6 | 190.2 | --- | 5.469 | -5.37 | 0.263 | 69.0 | 226.6 | -8.2 | 0.220 |
| 4-2630 | 4-3930 | 0.354 | 3.3 | 24.5 | 5.70 | 1.290 | 83.3 | 0.693 | 3.246 | 16.5 | 190.7 | --- | 5.495 | -6.84 | 0.265 | 68.1 | 227.3 | -9.8 | 0.223 |
| 4-2630 | 4-3950 | 0.370 | 359.8 | 32.9 | 8.28 | 1.290 | 83.7 | 0.693 | 3.260 | 15.4 | 191.1 | --- | 5.521 | -9.42 | 0.266 | 67.3 | 228.1 | -12.5 | 0.228 |
| 4-2630 | 4-3970 | 0.428 | 348.7 | 46.8 | 13.91 | 1.291 | 84.2 | 0.694 | 3.274 | 14.2 | 191.6 | --- | 5.547 | -15.03 | 0.268 | 66.5 | 229.3 | -17.8 | 0.239 |
| 4-2630 | 4-3990 | 0.736 | 294.1 | 60.9 | 34.05 | 1.291 | 84.6 | 0.695 | 3.289 | 13.2 | 192.0 | --- | 5.574 | -35.17 | 0.270 | 65.7 | 234.1 | -30.8 | 0.298 |
| 4-2630 | 4-4010 | 1.001 | 99.7 | -77.2 | -49.75 | 1.292 | 85.3 | 0.695 | 3.303 | 11.5 | 192.4 | --- | 5.600 | 48.64 | 0.271 | 65.0 | 240.6 | 29.1 | 0.350 |
| 4-2630 | 4-4030 | 0.485 | 43.8 | -45.3 | -18.58 | 1.292 | 85.7 | 0.696 | 3.318 | 10.6 | 192.9 | --- | 5.628 | 17.49 | 0.273 | 64.2 | 233.2 | 14.8 | 0.249 |
| 4-2630 | 4-4050 | 0.390 | 37.6 | -29.0 | -11.46 | 1.293 | 86.1 | 0.697 | 3.332 | 9.4 | 193.3 | --- | 5.656 | 10.38 | 0.274 | 63.5 | 232.7 | 8.3 | 0.237 |
| 4-2630 | 4-4070 | 0.358 | 35.8 | -19.8 | -8.44 | 1.293 | 86.6 | 0.698 | 3.347 | 8.3 | 193.7 | --- | 5.684 | 7.37 | 0.276 | 62.8 | 233.2 | 5.2 | 0.235 |
| 4-2630 | 4-4090 | 0.342 | 35.5 | -13.9 | -6.78 | 1.294 | 87.1 | 0.699 | 3.362 | 7.1 | 194.1 | --- | 5.713 | 5.71 | 0.278 | 62.2 | 233.9 | 3.5 | 0.236 |
| 4-2630 | 4-4110 | 0.334 | 36.0 | -9.8 | -5.72 | 1.294 | 87.6 | 0.700 | 3.377 | 5.9 | 194.5 | --- | 5.741 | 4.67 | 0.279 | 61.5 | 234.7 | 2.3 | 0.237 |
| 4-2630 | 4-4130 | 0.328 | 37.0 | -6.6 | -4.99 | 1.295 | 88.1 | 0.701 | 3.392 | 4.7 | 194.8 | --- | 5.770 | 3.95 | 0.281 | 60.9 | 235.6 | 1.5 | 0.238 |
| 4-2630 | 4-4150 | 0.324 | 38.2 | -4.1 | -4.46 | 1.295 | 88.5 | 0.702 | 3.407 | 3.5 | 195.2 | --- | 5.800 | 3.42 | 0.282 | 60.2 | 236.5 | 1.0 | 0.239 |
| 4-2630 | 4-4170 | 0.322 | 39.6 | -2.0 | -4.05 | 1.296 | 89.0 | 0.704 | 3.422 | 2.3 | 195.6 | --- | 5.829 | 3.03 | 0.284 | 59.6 | 237.4 | 0.5 | 0.241 |
| 4-2630 | 4-4190 | 0.320 | 41.1 | -0.1 | -3.73 | 1.296 | 89.5 | 0.705 | 3.437 | 1.1 | 195.9 | --- | 5.859 | 2.71 | 0.286 | 59.1 | 238.4 | 0.1 | 0.242 |
| 4-2630 | 4-4210 | 0.319 | 42.7 | 1.5 | -3.47 | 1.297 | 90.0 | 0.706 | 3.452 | 359.9 | 556.2 | 1.014 | 5.889 | 2.46 | 0.287 | 58.5 | 239.4 | -0.2 | 0.244 |
| 4-2630 | 4-4230 | 0.318 | 44.4 | 2.9 | -3.25 | 1.297 | 90.5 | 0.707 | 3.467 | 358.7 | 556.6 | 1.014 | 5.919 | 2.25 | 0.289 | 57.9 | 240.4 | -0.4 | 0.246 |
| 4-2640 | 4-2980 | 0.654 | 350.6 | -6.3 | -1.08 | 1.407 | 66.1 | 1.00567 | .411 | 47.7 | 131.0 | --- | --- | -0.87 | 0.638 | 155.8 | 249.6 | -3.3 | 0.604 |
| 4-2640 | 4-3000 | 0.641 | 349.3 | -6.9 | -1.05 | 1.387 | 65.9 | 0.95819 | .827 | 49.3 | 134.4 | --- | --- | -0.87 | 0.592 | 154.3 | 249.4 | -3.3 | 0.559 |
| 4-2640 | 4-3020 | 0.630 | 348.2 | -7.3 | -1.02 | 1.370 | 65.8 | 0.91910 | .302 | 50.7 | 137.6 | --- | --- | -0.87 | 0.551 | 152.6 | 249.1 | -3.3 | 0.518 |
| 4-2640 | 4-3040 | 0.621 | 347.2 | -7.6 | -1.00 | 1.356 | 65.7 | 0.887 | 7.365 | 52.0 | 140.7 | --- | --- | -0.87 | 0.514 | 150.9 | 248.7 | -3.3 | 0.482 |
| 4-2640 | 4-3060 | 0.614 | 346.4 | -7.9 | -0.97 | 1.344 | 65.6 | 0.861 | 5.950 | 53.0 | 143.5 | --- | --- | -0.87 | 0.482 | 149.0 | 248.3 | -3.3 | 0.450 |
| 4-2640 | 4-3080 | 0.607 | 345.7 | -8.1 | -0.94 | 1.334 | 65.6 | 0.839 | 5.125 | 53.9 | 146.2 | --- | --- | -0.87 | 0.452 | 147.1 | 247.7 | -3.3 | 0.421 |
| 4-2640 | 4-3100 | 0.600 | 345.2 | -8.3 | -0.91 | 1.325 | 65.6 | 0.821 | 4.590 | 54.6 | 148.7 | --- | --- | -0.87 | 0.426 | 145.0 | 247.1 | -3.4 | 0.396 |
| 4-2640 | 4-3120 | 0.595 | 344.8 | -8.4 | -0.89 | 1.318 | 65.6 | 0.806 | 4.218 | 55.2 | 151.0 | --- | --- | -0.87 | 0.402 | 142.9 | 246.4 | -3.4 | 0.372 |
| 4-2640 | 4-3140 | 0.589 | 344.5 | -8.5 | -0.86 | 1.312 | 65.7 | 0.793 | 3.948 | 55.6 | 153.2 | --- | --- | -0.87 | 0.381 | 140.7 | 245.6 | -3.4 | 0.351 |
| 4-2640 | 4-3160 | 0.584 | 344.2 | -8.6 | -0.83 | 1.307 | 65.8 | 0.782 | 3.746 | 55.8 | 155.3 | --- | --- | -0.88 | 0.362 | 138.4 | 244.8 | -3.4 | 0.332 |
| 4-2640 | 4-3180 | 0.579 | 344.1 | -8.6 | -0.80 | 1.302 | 65.9 | 0.772 | 3.590 | 56.0 | 157.2 | --- | --- | -0.88 | 0.345 | 136.1 | 243.8 | -3.4 | 0.315 |
| 4-2640 | 4-3200 | 0.574 | 344.1 | -8.5 | -0.78 | 1.299 | 66.1 | 0.764 | 3.467 | 56.0 | 159.0 | --- | --- | -0.89 | 0.330 | 133.6 | 242.8 | -3.4 | 0.300 |
| 4-2640 | 4-3220 | 0.569 | 344.1 | -8.5 | -0.75 | 1.295 | 66.2 | 0.757 | 3.371 | 56.0 | 160.7 | --- | --- | -0.90 | 0.316 | 131.1 | 241.8 | -3.4 | 0.287 |
| 4-2640 | 4-3240 | 0.564 | 344.2 | -8.4 | -0.72 | 1.293 | 66.4 | 0.750 | 3.293 | 55.8 | 162.3 | --- | --- | -0.90 | 0.304 | 128.6 | 240.6 | -3.5 | 0.275 |
| 4-2640 | 4-3260 | 0.559 | 344.3 | -8.3 | -0.69 | 1.290 | 66.6 | 0.745 | 3.230 | 55.6 | 163.9 | --- | --- | -0.91 | 0.293 | 126.0 | 239.5 | -3.5 | 0.264 |
| 4-2640 | 4-3280 | 0.554 | 344.5 | -8.1 | -0.66 | 1.289 | 66.8 | 0.740 | 3.180 | 55.3 | 165.3 | --- | --- | -0.92 | 0.284 | 123.4 | 238.3 | -3.5 | 0.254 |
| 4-2640 | 4-3300 | 0.549 | 344.7 | -8.0 | -0.63 | 1.287 | 67.1 | 0.735 | 3.139 | 54.9 | 166.7 | --- | --- | -0.93 | 0.276 | 120.8 | 237.0 | -3.5 | 0.246 |
| 4-2640 | 4-3320 | 0.544 | 345.0 | -7.8 | -0.60 | 1.286 | 67.4 | 0.731 | 3.106 | 54.4 | 167.9 | --- | --- | -0.95 | 0.269 | 118.2 | 235.8 | -3.5 | 0.238 |
| 4-2640 | 4-3340 | 0.538 | 345.3 | -7.6 | -0.57 | 1.285 | 67.6 | 0.728 | 3.080 | 53.9 | 169.2 | --- | --- | -0.96 | 0.263 | 115.6 | 234.6 | -3.5 | 0.232 |
| 4-2640 | 4-3360 | 0.533 | 345.7 | -7.4 | -0.53 | 1.284 | 67.9 | 0.725 | 3.059 | 53.3 | 170.3 | --- | --- | -0.97 | 0.257 | 113.1 | 233.4 | -3.5 | 0.226 |
| 4-2640 | 4-3380 | 0.528 | 346.1 | -7.2 | -0.50 | 1.283 | 68.2 | 0.722 | 3.043 | 52.7 | 171.5 | --- | --- | -0.99 | 0.253 | 110.6 | 232.2 | -3.5 | 0.222 |
| 4-2640 | 4-3400 | 0.523 | 346.5 | -6.9 | -0.47 | 1.282 | 68.5 | 0.720 | 3.030 | 52.0 | 172.5 | --- | --- | -1.01 | 0.249 | 108.1 | 231.0 | -3.5 | 0.218 |
| 4-2640 | 4-3420 | 0.517 | 347.0 | -6.6 | -0.43 | 1.282 | 68.8 | 0.717 | 3.021 | 51.3 | 173.6 | --- | --- | -1.02 | 0.246 | 105.7 | 229.9 | -3.5 | 0.214 |
| 4-2640 | 4-3440 | 0.512 | 347.5 | -6.4 | -0.39 | 1.282 | 69.2 | 0.715 | 3.015 | 50.6 | 174.5 | --- | --- | -1.04 | 0.244 | 103.3 | 228.9 | -3.5 | 0.211 |
| 4-2640 | 4-3460 | 0.506 | 348.0 | -6.1 | -0.35 | 1.282 | 69.5 | 0.713 | 3.012 | 49.8 | 175.5 | --- | --- | -1.07 | 0.242 | 101.0 | 227.9 | -3.5 | 0.209 |
| 4-2640 | 4-3480 | 0.501 | 348.6 | -5.7 | -0.31 | 1.282 | 69.9 | 0.712 | 3.010 | 49.0 | 176.4 | --- | --- | -1.09 | 0.241 | 98.8 | 227.1 | -3.5 | 0.207 |
| 4-2640 | 4-3500 | 0.495 | 349.2 | -5.4 | -0.27 | 1.282 | 70.2 | 0.710 | 3.011 | 48.2 | 177.2 | --- | --- | -1.12 | 0.240 | 96.7 | 226.2 | -3.5 | 0.206 |
| 4-2640 | 4-3520 | 0.489 | 349.8 | -5.0 | -0.23 | 1.282 | 70.6 | 0.709 | 3.013 | 47.3 | 178.1 | --- | --- | -1.14 | 0.239 | 94.6 | 225.5 | -3.5 | 0.205 |
| 4-2640 | 4-3540 | 0.484 | 350.4 | -4.6 | -0.18 | 1.282 | 71.0 | 0.708 | 3.017 | 46.4 | 178.9 | --- | --- | -1.18 | 0.239 | 92.7 | 224.9 | -3.5 | 0.204 |
| 4-2640 | 4-3560 | 0.478 | 351.1 | -4.2 | -0.13 | 1.282 | 71.4 | 0.706 | 3.022 | 45.5 | 179.7 | --- | --- | -1.21 | 0.239 | 90.8 | 224.3 | -3.6 | 0.204 |
| 4-2640 | 4-3580 | 0.472 | 351.7 | -3.8 | -0.08 | 1.282 | 71.8 | 0.705 | 3.028 | 44.6 | 180.4 | --- | 5.164 | -1.24 | 0.239 | 89.0 | 223.9 | -3.6 | 0.204 |
| 4-2640 | 4-3600 | 0.467 | 352.4 | -3.3 | -0.03 | 1.283 | 72.2 | 0.704 | 3.035 | 43.6 | 181.2 | --- | 5.173 | -1.28 | 0.239 | 87.2 | 223.5 | -3.6 | 0.204 |
| 4-2640 | 4-3620 | 0.461 | 353.2 | -2.9 | 0.03 | 1.283 | 72.6 | 0.704 | 3.043 | 42.7 | 181.9 | --- | 5.185 | -1.33 | 0.240 | 85.6 | 223.2 | -3.7 | 0.205 |
| 4-2640 | 4-3640 | 0.455 | 353.9 | -2.4 | 0.09 | 1.283 | 73.0 | 0.703 | 3.052 | 41.7 | 182.6 | --- | 5.198 | -1.37 | 0.241 | 84.0 | 223.0 | -3.7 | 0.205 |
| 4-2640 | 4-3660 | 0.449 | 354.7 | -1.8 | 0.16 | 1.284 | 73.4 | 0.702 | 3.062 | 40.7 | 183.2 | --- | 5.212 | -1.43 | 0.242 | 82.5 | 222.8 | -3.7 | 0.206 |
| 4-2640 | 4-3680 | 0.444 | 355.5 | -1.3 | 0.23 | 1.284 | 73.8 | 0.702 | 3.072 | 39.7 | 183.9 | --- | 5.228 | -1.48 | 0.243 | 81.0 | 222.8 | -3.8 | 0.207 |
| 4-2640 | 4-3700 | 0.438 | 356.3 | -0.7 | 0.30 | 1.285 | 74.2 | 0.701 | 3.083 | 38.6 | 184.5 | --- | 5.245 | -1.55 | 0.244 | 79.7 | 222.8 | -3.9 | 0.208 |
| 4-2640 | 4-3720 | 0.432 | 357.1 | -0.0 | 0.39 | 1.285 | 74.6 | 0.701 | 3.095 | 37.6 | 185.1 | --- | 5.263 | -1.61 | 0.246 | 78.4 | 222.9 | -3.9 | 0.209 |
| 4-2640 | 4-3740 | 0.427 | 358.0 | 0.6 | 0.48 | 1.286 | 75.1 | 0.700 | 3.107 | 36.5 | 185.7 | --- | 5.282 | -1.69 | 0.247 | 77.1 | 223.0 | -4.0 | 0.210 |
| 4-2640 | 4-3760 | 0.421 | 358.8 | 1.4 | 0.58 | 1.286 | 75.5 | 0.700 | 3.119 | 35.5 | 186.3 | --- | 5.302 | -1.78 | 0.249 | 75.9 | 223.2 | -4.1 | 0.211 |
| 4-2640 | 4-3780 | 0.416 | 359.7 | 2.1 | 0.69 | 1.287 | 75.9 | 0.700 | 3.132 | 34.4 | 186.8 | --- | 5.323 | -1.87 | 0.250 | 74.7 | 223.5 | -4.2 | 0.212 |
| 4-2640 | 4-3800 | 0.410 | 0.6 | 2.9 | 0.81 | 1.287 | 76.4 | 0.700 | 3.145 | 33.3 | 187.4 | --- | 5.345 | -1.98 | 0.252 | 73.7 | 223.8 | -4.4 | 0.214 |
| 4-2640 | 4-3820 | 0.405 | 1.5 | 3.8 | 0.95 | 1.288 | 76.8 | 0.700 | 3.158 | 32.2 | 187.9 | --- | 5.367 | -2.11 | 0.253 | 72.6 | 224.2 | -4.5 | 0.215 |
| 4-2640 | 4-3840 | 0.400 | 2.4 | 4.8 | 1.10 | 1.288 | 77.3 | 0.700 | 3.172 | 31.1 | 188.4 | --- | 5.390 | -2.25 | 0.255 | 71.6 | 224.7 | -4.7 | 0.217 |
| 4-2640 | 4-3860 | 0.395 | 3.3 | 5.9 | 1.28 | 1.289 | 77.7 | 0.700 | 3.185 | 30.0 | 188.9 | --- | 5.414 | -2.42 | 0.257 | 70.6 | 225.2 | -4.9 | 0.218 |
| 4-2640 | 4-3880 | 0.390 | 4.2 | 7.1 | 1.48 | 1.289 | 78.2 | 0.700 | 3.199 | 28.8 | 189.4 | --- | 5.438 | -2.61 | 0.258 | 69.7 | 225.7 | -5.1 | 0.220 |
| 4-2640 | 4-3900 | 0.385 | 5.0 | 8.4 | 1.72 | 1.290 | 78.6 | 0.700 | 3.214 | 27.7 | 189.9 | --- | 5.462 | -2.84 | 0.260 | 68.8 | 226.3 | -5.3 | 0.221 |
| 4-2640 | 4-3920 | 0.380 | 5.9 | 9.8 | 2.01 | 1.290 | 79.1 | 0.700 | 3.228 | 26.6 | 190.4 | --- | 5.487 | -3.11 | 0.262 | 68.0 | 226.9 | -5.6 | 0.223 |
| 4-2640 | 4-3940 | 0.376 | 6.6 | 11.5 | 2.36 | 1.291 | 79.6 | 0.700 | 3.243 | 25.4 | 190.8 | --- | 5.513 | -3.44 | 0.264 | 67.1 | 227.6 | -6.0 | 0.225 |
| 4-2640 | 4-3960 | 0.373 | 7.3 | 13.5 | 2.78 | 1.291 | 80.0 | 0.700 | 3.257 | 24.3 | 191.3 | --- | 5.539 | -3.86 | 0.265 | 66.3 | 228.3 | -6.4 | 0.226 |
| 4-2640 | 4-3980 | 0.370 | 7.8 | 15.9 | 3.33 | 1.292 | 80.5 | 0.701 | 3.272 | 23.1 | 191.7 | --- | 5.565 | -4.39 | 0.267 | 65.6 | 229.0 | -7.0 | 0.228 |
| 4-2640 | 4-4000 | 0.368 | 8.0 | 18.9 | 4.04 | 1.293 | 81.0 | 0.701 | 3.287 | 22.0 | 192.2 | --- | 5.592 | -5.09 | 0.269 | 64.8 | 229.8 | -7.7 | 0.230 |
| 4-2640 | 4-4020 | 0.369 | 7.8 | 22.7 | 5.03 | 1.293 | 81.4 | 0.702 | 3.302 | 20.8 | 192.6 | --- | 5.619 | -6.07 | 0.271 | 64.1 | 230.6 | -8.7 | 0.232 |
| 4-2640 | 4-4040 | 0.373 | 6.7 | 27.8 | 6.48 | 1.294 | 81.9 | 0.702 | 3.317 | 19.7 | 193.0 | --- | 5.646 | -7.50 | 0.272 | 63.4 | 231.5 | -10.2 | 0.235 |
| 4-2640 | 4-4060 | 0.388 | 3.6 | 35.1 | 8.80 | 1.294 | 82.4 | 0.703 | 3.333 | 18.5 | 193.4 | --- | 5.674 | -9.82 | 0.274 | 62.8 | 232.5 | -12.4 | 0.239 |
| 4-2640 | 4-4080 | 0.430 | 355.3 | 45.9 | 13.16 | 1.295 | 82.9 | 0.703 | 3.348 | 17.3 | 193.8 | --- | 5.702 | -14.16 | 0.276 | 62.1 | 233.8 | -16.4 | 0.248 |
| 4-2640 | 4-4100 | 0.579 | 325.9 | 59.5 | 23.98 | 1.295 | 83.3 | 0.704 | 3.363 | 16.2 | 194.2 | --- | 5.730 | -24.97 | 0.277 | 61.5 | 236.6 | -24.6 | 0.274 |
| 4-2640 | 4-4120 | 1.345 | 257.0 | 42.1 | 70.53 | 1.296 | 83.6 | 0.705 | 3.379 | 15.5 | 194.6 | --- | 5.759 | -71.51 | 0.279 | 60.9 | 250.7 | -34.2 | 0.445 |
| 4-2640 | 4-4140 | 0.757 | 60.9 | -66.2 | -35.11 | 1.296 | 84.5 | 0.705 | 3.394 | 13.4 | 194.9 | --- | 5.786 | 34.14 | 0.281 | 60.3 | 242.4 | 24.0 | 0.305 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2640 | 4-4160 | 0.482 | 46.4 | -41.6 | -17.92 | 1.297 | 84.9 | 0.706 | 3.409 | 12.3 | 195.3 | --- | 5.816 | 16.96 | 0.282 | 59.8 | 239.0 | 13.4 | 0.259 |
| 4-2640 | 4-4180 | 0.404 | 42.7 | -28.1 | -12.09 | 1.297 | 85.4 | 0.707 | 3.425 | 11.2 | 195.6 | --- | 5.845 | 11.14 | 0.284 | 59.2 | 238.9 | 8.3 | 0.250 |
| 4-2640 | 4-4200 | 0.372 | 41.6 | -19.7 | -9.22 | 1.298 | 85.9 | 0.707 | 3.440 | 10.0 | 196.0 | --- | 5.874 | 8.29 | 0.286 | 58.6 | 239.5 | 5.5 | 0.248 |
| 4-2640 | 4-4220 | 0.355 | 41.6 | -14.0 | -7.51 | 1.298 | 86.4 | 0.708 | 3.456 | 8.8 | 196.3 | --- | 5.903 | 6.60 | 0.287 | 58.1 | 240.3 | 3.8 | 0.248 |
| 4-2640 | 4-4240 | 0.344 | 42.3 | -9.8 | -6.39 | 1.299 | 86.9 | 0.709 | 3.471 | 7.6 | 196.7 | --- | 5.933 | 5.48 | 0.289 | 57.6 | 241.3 | 2.7 | 0.249 |
| 4-2650 | 4-2970 | 0.765 | 351.0 | -5.9 | -1.13 | 1.420 | 59.8 | 1.028 | 26.903 | 59.5 | 132.2 | --- | --- | -1.07 | 0.662 | 157.9 | 248.6 | -3.3 | 0.638 |
| 4-2650 | 4-2990 | 0.749 | 349.9 | -6.3 | -1.10 | 1.397 | 59.8 | 0.980 | 36.830 | 61.2 | 135.7 | --- | --- | -1.06 | 0.612 | 156.4 | 248.3 | -3.3 | 0.589 |
| 4-2650 | 4-3010 | 0.735 | 348.9 | -6.7 | -1.06 | 1.378 | 59.8 | 0.940 | 12.529 | 62.6 | 139.0 | --- | --- | -1.05 | 0.567 | 154.8 | 248.0 | -3.3 | 0.545 |
| 4-2650 | 4-3030 | 0.724 | 348.1 | -6.9 | -1.03 | 1.362 | 59.8 | 0.909 | 8.117 | 63.9 | 142.1 | --- | --- | -1.04 | 0.527 | 153.1 | 247.5 | -3.3 | 0.507 |
| 4-2650 | 4-3050 | 0.714 | 347.4 | -7.2 | -1.00 | 1.349 | 59.8 | 0.883 | 6.284 | 64.9 | 144.9 | --- | --- | -1.03 | 0.491 | 151.3 | 247.0 | -3.3 | 0.472 |
| 4-2650 | 4-3070 | 0.705 | 346.9 | -7.3 | -0.96 | 1.338 | 59.9 | 0.861 | 5.289 | 65.8 | 147.5 | --- | --- | -1.03 | 0.459 | 149.4 | 246.5 | -3.4 | 0.441 |
| 4-2650 | 4-3090 | 0.696 | 346.5 | -7.5 | -0.93 | 1.328 | 60.0 | 0.843 | 4.671 | 66.4 | 150.0 | --- | --- | -1.02 | 0.430 | 147.4 | 245.8 | -3.4 | 0.414 |
| 4-2650 | 4-3110 | 0.689 | 346.2 | -7.5 | -0.90 | 1.320 | 60.1 | 0.828 | 4.254 | 66.9 | 152.3 | --- | --- | -1.02 | 0.405 | 145.2 | 245.1 | -3.4 | 0.389 |
| 4-2650 | 4-3130 | 0.682 | 345.9 | -7.6 | -0.87 | 1.314 | 60.2 | 0.815 | 3.958 | 67.3 | 154.4 | --- | --- | -1.02 | 0.382 | 143.0 | 244.3 | -3.4 | 0.367 |
| 4-2650 | 4-3150 | 0.675 | 345.8 | -7.6 | -0.84 | 1.308 | 60.4 | 0.804 | 3.738 | 67.5 | 156.4 | --- | --- | -1.02 | 0.361 | 140.7 | 243.4 | -3.4 | 0.347 |
| 4-2650 | 4-3170 | 0.669 | 345.7 | -7.6 | -0.80 | 1.303 | 60.6 | 0.794 | 3.571 | 67.6 | 158.3 | --- | --- | -1.02 | 0.343 | 138.3 | 242.5 | -3.4 | 0.329 |
| 4-2650 | 4-3190 | 0.663 | 345.7 | -7.5 | -0.77 | 1.299 | 60.8 | 0.786 | 3.442 | 67.5 | 160.0 | --- | --- | -1.02 | 0.327 | 135.8 | 241.4 | -3.4 | 0.313 |
| 4-2650 | 4-3210 | 0.657 | 345.8 | -7.5 | -0.74 | 1.296 | 61.0 | 0.779 | 3.340 | 67.4 | 161.7 | --- | --- | -1.02 | 0.312 | 133.3 | 240.4 | -3.4 | 0.299 |
| 4-2650 | 4-3230 | 0.650 | 345.9 | -7.4 | -0.71 | 1.293 | 61.3 | 0.773 | 3.259 | 67.2 | 163.2 | --- | --- | -1.02 | 0.299 | 130.6 | 239.2 | -3.4 | 0.286 |
| 4-2650 | 4-3250 | 0.644 | 346.0 | -7.3 | -0.68 | 1.291 | 61.5 | 0.767 | 3.195 | 66.9 | 164.6 | --- | --- | -1.03 | 0.288 | 128.0 | 238.1 | -3.5 | 0.275 |
| 4-2650 | 4-3270 | 0.638 | 346.3 | -7.1 | -0.65 | 1.289 | 61.8 | 0.762 | 3.143 | 66.5 | 166.0 | --- | --- | -1.03 | 0.278 | 125.2 | 236.9 | -3.5 | 0.265 |
| 4-2650 | 4-3290 | 0.632 | 346.5 | -7.0 | -0.61 | 1.287 | 62.1 | 0.757 | 3.101 | 66.0 | 167.3 | --- | --- | -1.04 | 0.269 | 122.5 | 235.7 | -3.5 | 0.256 |
| 4-2650 | 4-3310 | 0.626 | 346.8 | -6.8 | -0.58 | 1.286 | 62.4 | 0.753 | 3.068 | 65.5 | 168.5 | --- | --- | -1.04 | 0.262 | 119.8 | 234.5 | -3.5 | 0.249 |
| 4-2650 | 4-3330 | 0.620 | 347.1 | -6.6 | -0.55 | 1.284 | 62.7 | 0.750 | 3.041 | 64.9 | 169.7 | --- | --- | -1.05 | 0.255 | 117.0 | 233.3 | -3.4 | 0.242 |
| 4-2650 | 4-3350 | 0.614 | 347.4 | -6.4 | -0.52 | 1.284 | 63.1 | 0.746 | 3.020 | 64.3 | 170.8 | --- | --- | -1.06 | 0.250 | 114.3 | 232.1 | -3.4 | 0.236 |
| 4-2650 | 4-3370 | 0.608 | 347.8 | -6.2 | -0.48 | 1.283 | 63.4 | 0.743 | 3.004 | 63.6 | 171.9 | --- | --- | -1.07 | 0.245 | 111.6 | 231.0 | -3.4 | 0.231 |
| 4-2650 | 4-3390 | 0.602 | 348.2 | -6.0 | -0.45 | 1.282 | 63.8 | 0.740 | 2.992 | 62.9 | 172.9 | --- | --- | -1.08 | 0.241 | 109.0 | 229.9 | -3.4 | 0.227 |
| 4-2650 | 4-3410 | 0.596 | 348.6 | -5.7 | -0.41 | 1.282 | 64.1 | 0.738 | 2.983 | 62.2 | 173.9 | --- | --- | -1.10 | 0.238 | 106.4 | 228.8 | -3.4 | 0.223 |
| 4-2650 | 4-3430 | 0.589 | 349.1 | -5.5 | -0.38 | 1.282 | 64.5 | 0.735 | 2.978 | 61.4 | 174.8 | --- | --- | -1.11 | 0.236 | 103.9 | 227.9 | -3.4 | 0.220 |
| 4-2650 | 4-3450 | 0.583 | 349.6 | -5.2 | -0.34 | 1.282 | 64.9 | 0.733 | 2.975 | 60.6 | 175.7 | --- | --- | -1.12 | 0.234 | 101.5 | 226.9 | -3.4 | 0.218 |
| 4-2650 | 4-3470 | 0.577 | 350.1 | -4.9 | -0.30 | 1.282 | 65.2 | 0.731 | 2.974 | 59.7 | 176.6 | --- | --- | -1.14 | 0.233 | 99.2 | 226.1 | -3.4 | 0.216 |
| 4-2650 | 4-3490 | 0.570 | 350.6 | -4.6 | -0.26 | 1.282 | 65.6 | 0.729 | 2.975 | 58.8 | 177.4 | --- | --- | -1.16 | 0.232 | 96.9 | 225.3 | -3.4 | 0.214 |
| 4-2650 | 4-3510 | 0.564 | 351.1 | -4.3 | -0.22 | 1.282 | 66.0 | 0.728 | 2.978 | 57.9 | 178.2 | --- | --- | -1.18 | 0.231 | 94.8 | 224.7 | -3.4 | 0.213 |
| 4-2650 | 4-3530 | 0.557 | 351.7 | -4.0 | -0.18 | 1.282 | 66.4 | 0.726 | 2.982 | 57.0 | 179.0 | --- | --- | -1.20 | 0.231 | 92.7 | 224.1 | -3.4 | 0.212 |
| 4-2650 | 4-3550 | 0.551 | 352.3 | -3.7 | -0.14 | 1.282 | 66.8 | 0.724 | 2.988 | 56.1 | 179.7 | --- | --- | -1.22 | 0.231 | 90.7 | 223.6 | -3.5 | 0.212 |
| 4-2650 | 4-3570 | 0.544 | 352.9 | -3.3 | -0.09 | 1.282 | 67.2 | 0.723 | 2.995 | 55.1 | 180.5 | --- | 5.160 | -1.25 | 0.232 | 88.8 | 223.1 | -3.5 | 0.212 |
| 4-2650 | 4-3590 | 0.538 | 353.5 | -2.9 | -0.05 | 1.283 | 67.7 | 0.722 | 3.003 | 54.1 | 181.2 | --- | 5.170 | -1.28 | 0.232 | 87.0 | 222.8 | -3.5 | 0.212 |
| 4-2650 | 4-3610 | 0.531 | 354.1 | -2.5 | -0.00 | 1.283 | 68.1 | 0.721 | 3.012 | 53.1 | 181.8 | --- | 5.181 | -1.30 | 0.233 | 85.3 | 222.5 | -3.5 | 0.212 |
| 4-2650 | 4-3630 | 0.525 | 354.8 | -2.1 | 0.05 | 1.284 | 68.5 | 0.719 | 3.021 | 52.1 | 182.5 | --- | 5.194 | -1.34 | 0.234 | 83.6 | 222.4 | -3.5 | 0.212 |
| 4-2650 | 4-3650 | 0.518 | 355.4 | -1.7 | 0.10 | 1.284 | 68.9 | 0.718 | 3.031 | 51.1 | 183.1 | --- | 5.209 | -1.37 | 0.236 | 82.1 | 222.3 | -3.6 | 0.213 |
| 4-2650 | 4-3670 | 0.511 | 356.1 | -1.3 | 0.16 | 1.285 | 69.4 | 0.717 | 3.042 | 50.0 | 183.8 | --- | 5.225 | -1.41 | 0.237 | 80.6 | 222.2 | -3.6 | 0.213 |
| 4-2650 | 4-3690 | 0.505 | 356.8 | -0.8 | 0.22 | 1.285 | 69.8 | 0.716 | 3.054 | 49.0 | 184.4 | --- | 5.242 | -1.45 | 0.239 | 79.2 | 222.3 | -3.7 | 0.214 |
| 4-2650 | 4-3710 | 0.498 | 357.5 | -0.3 | 0.28 | 1.286 | 70.3 | 0.716 | 3.066 | 47.9 | 185.0 | --- | 5.260 | -1.49 | 0.240 | 77.9 | 222.4 | -3.7 | 0.215 |
| 4-2650 | 4-3730 | 0.492 | 358.3 | 0.2 | 0.34 | 1.286 | 70.7 | 0.715 | 3.079 | 46.8 | 185.5 | --- | 5.279 | -1.54 | 0.242 | 76.6 | 222.5 | -3.8 | 0.216 |
| 4-2650 | 4-3750 | 0.485 | 359.0 | 0.7 | 0.41 | 1.287 | 71.2 | 0.714 | 3.091 | 45.7 | 186.1 | --- | 5.299 | -1.60 | 0.243 | 75.4 | 222.8 | -3.8 | 0.217 |
| 4-2650 | 4-3770 | 0.479 | 359.8 | 1.3 | 0.49 | 1.287 | 71.6 | 0.714 | 3.105 | 44.6 | 186.6 | --- | 5.320 | -1.65 | 0.245 | 74.2 | 223.1 | -3.9 | 0.218 |
| 4-2650 | 4-3790 | 0.472 | 0.6 | 1.9 | 0.57 | 1.288 | 72.1 | 0.713 | 3.118 | 43.5 | 187.2 | --- | 5.342 | -1.72 | 0.247 | 73.1 | 223.4 | -4.0 | 0.219 |
| 4-2650 | 4-3810 | 0.466 | 1.4 | 2.5 | 0.65 | 1.288 | 72.5 | 0.712 | 3.132 | 42.4 | 187.7 | --- | 5.364 | -1.79 | 0.249 | 72.0 | 223.8 | -4.0 | 0.220 |
| 4-2650 | 4-3830 | 0.460 | 2.2 | 3.1 | 0.74 | 1.289 | 73.0 | 0.712 | 3.147 | 41.3 | 188.2 | --- | 5.387 | -1.86 | 0.251 | 71.0 | 224.3 | -4.1 | 0.222 |
| 4-2650 | 4-3850 | 0.453 | 3.0 | 3.8 | 0.85 | 1.289 | 73.4 | 0.712 | 3.161 | 40.2 | 188.7 | --- | 5.410 | -1.95 | 0.253 | 70.1 | 224.8 | -4.2 | 0.223 |
| 4-2650 | 4-3870 | 0.447 | 3.9 | 4.6 | 0.96 | 1.290 | 73.9 | 0.711 | 3.176 | 39.0 | 189.2 | --- | 5.434 | -2.05 | 0.254 | 69.2 | 225.3 | -4.4 | 0.224 |
| 4-2650 | 4-3890 | 0.441 | 4.7 | 5.3 | 1.08 | 1.290 | 74.4 | 0.711 | 3.191 | 37.9 | 189.6 | --- | 5.459 | -2.15 | 0.256 | 68.3 | 225.9 | -4.5 | 0.226 |
| 4-2650 | 4-3910 | 0.435 | 5.6 | 6.2 | 1.21 | 1.291 | 74.8 | 0.711 | 3.206 | 36.7 | 190.1 | --- | 5.484 | -2.27 | 0.258 | 67.4 | 226.5 | -4.6 | 0.227 |
| 4-2650 | 4-3930 | 0.429 | 6.4 | 7.1 | 1.36 | 1.292 | 75.3 | 0.710 | 3.221 | 35.6 | 190.6 | --- | 5.509 | -2.41 | 0.260 | 66.6 | 227.2 | -4.8 | 0.228 |
| 4-2650 | 4-3950 | 0.423 | 7.3 | 8.1 | 1.53 | 1.292 | 75.8 | 0.710 | 3.236 | 34.4 | 191.0 | --- | 5.535 | -2.56 | 0.262 | 65.9 | 227.9 | -4.9 | 0.230 |
| 4-2650 | 4-3970 | 0.417 | 8.1 | 9.2 | 1.73 | 1.293 | 76.3 | 0.710 | 3.251 | 33.3 | 191.4 | --- | 5.561 | -2.74 | 0.264 | 65.1 | 228.6 | -5.1 | 0.231 |
| 4-2650 | 4-3990 | 0.412 | 9.0 | 10.4 | 1.95 | 1.293 | 76.7 | 0.710 | 3.267 | 32.1 | 191.9 | --- | 5.587 | -2.95 | 0.266 | 64.4 | 229.4 | -5.4 | 0.232 |
| 4-2650 | 4-4010 | 0.407 | 9.8 | 11.7 | 2.20 | 1.294 | 77.2 | 0.710 | 3.283 | 30.9 | 192.3 | --- | 5.614 | -3.19 | 0.268 | 63.7 | 230.2 | -5.6 | 0.234 |
| 4-2650 | 4-4030 | 0.402 | 10.6 | 13.1 | 2.50 | 1.294 | 77.7 | 0.710 | 3.298 | 29.7 | 192.7 | --- | 5.641 | -3.47 | 0.269 | 63.0 | 231.0 | -5.9 | 0.235 |
| 4-2650 | 4-4050 | 0.397 | 11.3 | 14.8 | 2.86 | 1.295 | 78.2 | 0.710 | 3.314 | 28.6 | 193.1 | --- | 5.668 | -3.82 | 0.271 | 62.4 | 231.9 | -6.3 | 0.237 |
| 4-2650 | 4-4070 | 0.393 | 11.9 | 16.8 | 3.30 | 1.296 | 78.7 | 0.711 | 3.330 | 27.4 | 193.5 | --- | 5.696 | -4.24 | 0.273 | 61.8 | 232.7 | -6.7 | 0.238 |
| 4-2650 | 4-4090 | 0.390 | 12.4 | 19.1 | 3.85 | 1.296 | 79.2 | 0.711 | 3.346 | 26.2 | 193.9 | --- | 5.723 | -4.78 | 0.275 | 61.2 | 233.7 | -7.3 | 0.240 |
| 4-2650 | 4-4110 | 0.388 | 12.6 | 21.9 | 4.55 | 1.297 | 79.6 | 0.711 | 3.361 | 25.0 | 194.3 | --- | 5.751 | -5.47 | 0.277 | 60.6 | 234.6 | -8.0 | 0.242 |
| 4-2650 | 4-4130 | 0.388 | 12.5 | 25.4 | 5.49 | 1.297 | 80.1 | 0.711 | 3.377 | 23.8 | 194.6 | --- | 5.779 | -6.39 | 0.279 | 60.0 | 235.6 | -8.9 | 0.244 |
| 4-2650 | 4-4150 | 0.391 | 11.6 | 29.9 | 6.80 | 1.298 | 80.6 | 0.712 | 3.393 | 22.6 | 195.0 | --- | 5.808 | -7.69 | 0.280 | 59.5 | 236.6 | -10.1 | 0.246 |
| 4-2650 | 4-4170 | 0.402 | 9.2 | 36.0 | 8.78 | 1.298 | 81.1 | 0.712 | 3.409 | 21.4 | 195.4 | --- | 5.836 | -9.65 | 0.282 | 59.0 | 237.7 | -11.9 | 0.250 |
| 4-2650 | 4-4190 | 0.430 | 3.5 | 44.5 | 12.07 | 1.299 | 81.6 | 0.712 | 3.425 | 20.3 | 195.7 | --- | 5.865 | -12.93 | 0.284 | 58.5 | 239.1 | -14.9 | 0.256 |
| 4-2650 | 4-4210 | 0.509 | 347.3 | 55.8 | 18.62 | 1.299 | 82.1 | 0.713 | 3.441 | 19.1 | 196.1 | --- | 5.894 | -19.46 | 0.286 | 57.9 | 241.1 | -20.1 | 0.269 |
| 4-2650 | 4-4230 | 0.792 | 297.4 | 60.1 | 36.66 | 1.300 | 82.5 | 0.714 | 3.457 | 18.1 | 196.4 | --- | 5.924 | -37.49 | 0.287 | 57.4 | 246.7 | -30.0 | 0.322 |
| 4-2650 | 4-4250 | 1.470 | 216.3 | -79.8 | -78.41 | 1.300 | 83.5 | 0.713 | 3.473 | 15.7 | 196.7 | --- | 5.950 | 77.60 | 0.289 | 57.1 | 260.6 | 27.1 | 0.472 |
| 4-2660 | 4-2980 | 0.871 | 351.3 | -5.4 | -1.19 | 1.408 | 53.1 | 1.000 | 54.496 | 73.8 | 137.8 | --- | --- | -1.27 | 0.634 | 158.9 | 247.0 | -3.3 | 0.624 |
| 4-2660 | 4-3000 | 0.853 | 350.5 | -5.7 | -1.15 | 1.387 | 53.2 | 0.962 | 16.804 | 75.3 | 141.1 | --- | --- | -1.25 | 0.584 | 157.4 | 246.6 | -3.3 | 0.577 |
| 4-2660 | 4-3020 | 0.838 | 349.8 | -6.0 | -1.10 | 1.369 | 53.4 | 0.931 | 9.208 | 76.5 | 144.1 | --- | --- | -1.23 | 0.540 | 155.7 | 246.1 | -3.3 | 0.535 |
| 4-2660 | 4-3040 | 0.825 | 349.3 | -6.1 | -1.06 | 1.354 | 53.5 | 0.906 | 6.714 | 77.5 | 146.9 | --- | --- | -1.22 | 0.501 | 154.0 | 245.6 | -3.3 | 0.498 |
| 4-2660 | 4-3060 | 0.813 | 348.9 | -6.3 | -1.02 | 1.342 | 53.7 | 0.885 | 5.486 | 78.2 | 149.4 | --- | --- | -1.20 | 0.467 | 152.1 | 245.0 | -3.3 | 0.464 |
| 4-2660 | 4-3080 | 0.803 | 348.6 | -6.3 | -0.98 | 1.332 | 53.9 | 0.868 | 4.763 | 78.8 | 151.8 | --- | --- | -1.19 | 0.435 | 150.1 | 244.3 | -3.4 | 0.435 |
| 4-2660 | 4-3100 | 0.793 | 348.4 | -6.4 | -0.94 | 1.323 | 54.2 | 0.853 | 4.291 | 79.2 | 154.0 | --- | --- | -1.18 | 0.408 | 148.0 | 243.5 | -3.4 | 0.409 |
| 4-2660 | 4-3120 | 0.784 | 348.2 | -6.4 | -0.91 | 1.316 | 54.4 | 0.840 | 3.963 | 79.4 | 156.0 | --- | --- | -1.17 | 0.383 | 145.8 | 242.7 | -3.4 | 0.385 |
| 4-2660 | 4-3140 | 0.776 | 348.2 | -6.4 | -0.87 | 1.310 | 54.7 | 0.830 | 3.725 | 79.5 | 157.9 | --- | --- | -1.16 | 0.360 | 143.5 | 241.8 | -3.4 | 0.364 |
| 4-2660 | 4-3160 | 0.768 | 348.2 | -6.3 | -0.83 | 1.304 | 54.9 | 0.820 | 3.547 | 79.5 | 159.7 | --- | --- | -1.16 | 0.341 | 141.0 | 240.8 | -3.4 | 0.345 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2660 | 4-3180 | 0.760 | 348.2 | -6.3 | -0.80 | 1.300 | 55.2 | 0.812 | 3.410 | 79.4 | 161.3 | --- | --- | -1.15 | 0.323 | 138.5 | 239.8 | -3.4 | 0.329 |
| 4-2660 | 4-3200 | 0.752 | 348.3 | -6.2 | -0.76 | 1.296 | 55.5 | 0.805 | 3.303 | 79.2 | 162.9 | --- | --- | -1.15 | 0.307 | 135.8 | 238.7 | -3.4 | 0.314 |
| 4-2660 | 4-3220 | 0.745 | 348.5 | -6.1 | -0.73 | 1.293 | 55.8 | 0.799 | 3.219 | 78.8 | 164.3 | --- | --- | -1.14 | 0.293 | 133.1 | 237.6 | -3.4 | 0.300 |
| 4-2660 | 4-3240 | 0.738 | 348.7 | -6.0 | -0.69 | 1.291 | 56.2 | 0.793 | 3.152 | 78.4 | 165.7 | --- | --- | -1.14 | 0.281 | 130.3 | 236.5 | -3.4 | 0.289 |
| 4-2660 | 4-3260 | 0.730 | 348.9 | -5.8 | -0.65 | 1.289 | 56.5 | 0.788 | 3.099 | 78.0 | 166.9 | --- | --- | -1.14 | 0.270 | 127.5 | 235.3 | -3.4 | 0.278 |
| 4-2660 | 4-3280 | 0.723 | 349.1 | -5.7 | -0.62 | 1.287 | 56.9 | 0.783 | 3.056 | 77.4 | 168.2 | --- | --- | -1.14 | 0.261 | 124.6 | 234.1 | -3.4 | 0.269 |
| 4-2660 | 4-3300 | 0.716 | 349.4 | -5.5 | -0.58 | 1.285 | 57.2 | 0.779 | 3.022 | 76.8 | 169.3 | --- | --- | -1.14 | 0.253 | 121.6 | 233.0 | -3.4 | 0.261 |
| 4-2660 | 4-3320 | 0.709 | 349.7 | -5.3 | -0.55 | 1.284 | 57.6 | 0.775 | 2.996 | 76.2 | 170.4 | --- | --- | -1.14 | 0.246 | 118.7 | 231.8 | -3.4 | 0.254 |
| 4-2660 | 4-3340 | 0.702 | 350.1 | -5.1 | -0.51 | 1.283 | 58.0 | 0.772 | 2.975 | 75.5 | 171.5 | --- | --- | -1.15 | 0.240 | 115.8 | 230.7 | -3.4 | 0.248 |
| 4-2660 | 4-3360 | 0.695 | 350.5 | -4.9 | -0.48 | 1.283 | 58.4 | 0.768 | 2.959 | 74.7 | 172.5 | --- | --- | -1.15 | 0.235 | 112.9 | 229.6 | -3.4 | 0.243 |
| 4-2660 | 4-3380 | 0.688 | 350.8 | -4.7 | -0.44 | 1.282 | 58.7 | 0.765 | 2.948 | 73.9 | 173.4 | --- | --- | -1.16 | 0.231 | 110.1 | 228.5 | -3.4 | 0.238 |
| 4-2660 | 4-3400 | 0.680 | 351.2 | -4.5 | -0.41 | 1.282 | 59.1 | 0.762 | 2.939 | 73.1 | 174.3 | --- | --- | -1.16 | 0.228 | 107.3 | 227.6 | -3.3 | 0.234 |
| 4-2660 | 4-3420 | 0.673 | 351.7 | -4.3 | -0.37 | 1.282 | 59.6 | 0.760 | 2.934 | 72.3 | 175.2 | --- | --- | -1.17 | 0.226 | 104.6 | 226.6 | -3.3 | 0.231 |
| 4-2660 | 4-3440 | 0.666 | 352.1 | -4.0 | -0.34 | 1.281 | 60.0 | 0.757 | 2.932 | 71.4 | 176.0 | --- | --- | -1.18 | 0.224 | 102.0 | 225.8 | -3.3 | 0.228 |
| 4-2660 | 4-3460 | 0.659 | 352.6 | -3.8 | -0.30 | 1.281 | 60.4 | 0.755 | 2.932 | 70.5 | 176.9 | --- | --- | -1.19 | 0.222 | 99.5 | 225.0 | -3.3 | 0.226 |
| 4-2660 | 4-3480 | 0.652 | 353.1 | -3.5 | -0.26 | 1.282 | 60.8 | 0.752 | 2.934 | 69.6 | 177.6 | --- | --- | -1.20 | 0.222 | 97.1 | 224.3 | -3.3 | 0.224 |
| 4-2660 | 4-3500 | 0.645 | 353.6 | -3.2 | -0.22 | 1.282 | 61.2 | 0.750 | 2.937 | 68.6 | 178.4 | --- | --- | -1.21 | 0.221 | 94.8 | 223.7 | -3.3 | 0.223 |
| 4-2660 | 4-3520 | 0.637 | 354.1 | -2.9 | -0.19 | 1.282 | 61.7 | 0.748 | 2.942 | 67.7 | 179.1 | --- | --- | -1.23 | 0.222 | 92.6 | 223.1 | -3.3 | 0.222 |
| 4-2660 | 4-3540 | 0.630 | 354.6 | -2.6 | -0.15 | 1.282 | 62.1 | 0.746 | 2.949 | 66.7 | 179.8 | --- | --- | -1.24 | 0.222 | 90.5 | 222.7 | -3.3 | 0.221 |
| 4-2660 | 4-3560 | 0.623 | 355.1 | -2.3 | -0.11 | 1.283 | 62.6 | 0.744 | 2.956 | 65.7 | 180.5 | --- | 5.157 | -1.26 | 0.223 | 88.5 | 222.3 | -3.3 | 0.221 |
| 4-2660 | 4-3580 | 0.616 | 355.7 | -2.0 | -0.06 | 1.283 | 63.0 | 0.743 | 2.965 | 64.6 | 181.2 | --- | 5.167 | -1.28 | 0.224 | 86.6 | 222.0 | -3.3 | 0.221 |
| 4-2660 | 4-3600 | 0.608 | 356.3 | -1.7 | -0.02 | 1.283 | 63.5 | 0.741 | 2.974 | 63.6 | 181.8 | --- | 5.179 | -1.29 | 0.225 | 84.8 | 221.8 | -3.4 | 0.221 |
| 4-2660 | 4-3620 | 0.601 | 356.8 | -1.3 | 0.02 | 1.284 | 63.9 | 0.740 | 2.985 | 62.6 | 182.5 | --- | 5.192 | -1.32 | 0.226 | 83.0 | 221.7 | -3.4 | 0.221 |
| 4-2660 | 4-3640 | 0.594 | 357.4 | -1.0 | 0.07 | 1.284 | 64.4 | 0.738 | 2.996 | 61.5 | 183.1 | --- | 5.207 | -1.34 | 0.228 | 81.4 | 221.6 | -3.4 | 0.221 |
| 4-2660 | 4-3660 | 0.586 | 358.0 | -0.6 | 0.11 | 1.285 | 64.8 | 0.737 | 3.007 | 60.4 | 183.7 | --- | 5.223 | -1.36 | 0.229 | 79.9 | 221.6 | -3.4 | 0.222 |
| 4-2660 | 4-3680 | 0.579 | 358.7 | -0.2 | 0.16 | 1.285 | 65.3 | 0.735 | 3.020 | 59.3 | 184.3 | --- | 5.240 | -1.39 | 0.231 | 78.4 | 221.7 | -3.5 | 0.222 |
| 4-2660 | 4-3700 | 0.572 | 359.3 | 0.2 | 0.21 | 1.286 | 65.8 | 0.734 | 3.032 | 58.3 | 184.8 | --- | 5.258 | -1.42 | 0.233 | 77.1 | 221.8 | -3.5 | 0.223 |
| 4-2660 | 4-3720 | 0.564 | 360.0 | 0.6 | 0.26 | 1.286 | 66.2 | 0.733 | 3.046 | 57.1 | 185.4 | --- | 5.278 | -1.45 | 0.235 | 75.7 | 222.0 | -3.5 | 0.224 |
| 4-2660 | 4-3740 | 0.557 | 0.6 | 1.0 | 0.32 | 1.287 | 66.7 | 0.732 | 3.059 | 56.0 | 185.9 | --- | 5.298 | -1.49 | 0.237 | 74.5 | 222.3 | -3.6 | 0.225 |
| 4-2660 | 4-3760 | 0.550 | 1.3 | 1.4 | 0.38 | 1.288 | 67.2 | 0.731 | 3.073 | 54.9 | 186.4 | --- | 5.319 | -1.52 | 0.239 | 73.3 | 222.6 | -3.6 | 0.226 |
| 4-2660 | 4-3780 | 0.543 | 2.0 | 1.9 | 0.44 | 1.288 | 67.6 | 0.730 | 3.087 | 53.8 | 187.0 | --- | 5.341 | -1.56 | 0.241 | 72.2 | 223.0 | -3.7 | 0.226 |
| 4-2660 | 4-3800 | 0.535 | 2.7 | 2.4 | 0.50 | 1.289 | 68.1 | 0.729 | 3.102 | 52.7 | 187.5 | --- | 5.363 | -1.61 | 0.243 | 71.2 | 223.4 | -3.7 | 0.227 |
| 4-2660 | 4-3820 | 0.528 | 3.4 | 2.9 | 0.56 | 1.289 | 68.6 | 0.728 | 3.117 | 51.5 | 187.9 | --- | 5.386 | -1.66 | 0.245 | 70.2 | 223.9 | -3.8 | 0.229 |
| 4-2660 | 4-3840 | 0.521 | 4.1 | 3.4 | 0.63 | 1.290 | 69.1 | 0.727 | 3.132 | 50.4 | 188.4 | --- | 5.409 | -1.71 | 0.247 | 69.2 | 224.4 | -3.9 | 0.230 |
| 4-2660 | 4-3860 | 0.514 | 4.9 | 3.9 | 0.71 | 1.291 | 69.5 | 0.726 | 3.147 | 49.2 | 188.9 | --- | 5.433 | -1.76 | 0.249 | 68.3 | 224.9 | -3.9 | 0.231 |
| 4-2660 | 4-3880 | 0.507 | 5.6 | 4.5 | 0.79 | 1.291 | 70.0 | 0.726 | 3.163 | 48.1 | 189.4 | --- | 5.458 | -1.82 | 0.251 | 67.4 | 225.5 | -4.0 | 0.232 |
| 4-2660 | 4-3900 | 0.500 | 6.4 | 5.1 | 0.87 | 1.292 | 70.5 | 0.725 | 3.178 | 46.9 | 189.8 | --- | 5.483 | -1.89 | 0.253 | 66.6 | 226.2 | -4.1 | 0.233 |
| 4-2660 | 4-3920 | 0.493 | 7.2 | 5.7 | 0.97 | 1.292 | 71.0 | 0.724 | 3.194 | 45.7 | 190.3 | --- | 5.508 | -1.97 | 0.256 | 65.8 | 226.8 | -4.2 | 0.234 |
| 4-2660 | 4-3940 | 0.486 | 8.0 | 6.4 | 1.06 | 1.293 | 71.5 | 0.724 | 3.210 | 44.6 | 190.7 | --- | 5.534 | -2.05 | 0.258 | 65.0 | 227.5 | -4.3 | 0.235 |
| 4-2660 | 4-3960 | 0.479 | 8.8 | 7.1 | 1.17 | 1.294 | 72.0 | 0.723 | 3.226 | 43.4 | 191.1 | --- | 5.560 | -2.14 | 0.260 | 64.3 | 228.3 | -4.4 | 0.236 |
| 4-2660 | 4-3980 | 0.472 | 9.6 | 7.8 | 1.29 | 1.294 | 72.4 | 0.723 | 3.242 | 42.2 | 191.5 | --- | 5.586 | -2.24 | 0.262 | 63.6 | 229.0 | -4.5 | 0.238 |
| 4-2660 | 4-4000 | 0.466 | 10.4 | 8.6 | 1.42 | 1.295 | 72.9 | 0.722 | 3.258 | 41.0 | 192.0 | --- | 5.612 | -2.35 | 0.264 | 63.0 | 229.8 | -4.7 | 0.239 |
| 4-2660 | 4-4020 | 0.459 | 11.2 | 9.4 | 1.56 | 1.295 | 73.4 | 0.722 | 3.275 | 39.9 | 192.4 | --- | 5.639 | -2.47 | 0.266 | 62.3 | 230.7 | -4.8 | 0.240 |
| 4-2660 | 4-4040 | 0.453 | 12.1 | 10.3 | 1.71 | 1.296 | 73.9 | 0.722 | 3.291 | 38.7 | 192.8 | --- | 5.666 | -2.61 | 0.268 | 61.7 | 231.5 | -5.0 | 0.241 |
| 4-2660 | 4-4060 | 0.446 | 12.9 | 11.3 | 1.89 | 1.296 | 74.4 | 0.721 | 3.307 | 37.5 | 193.2 | --- | 5.693 | -2.77 | 0.270 | 61.1 | 232.4 | -5.1 | 0.242 |
| 4-2660 | 4-4080 | 0.440 | 13.7 | 12.3 | 2.09 | 1.297 | 74.9 | 0.721 | 3.324 | 36.3 | 193.5 | --- | 5.721 | -2.95 | 0.272 | 60.5 | 233.3 | -5.3 | 0.244 |
| 4-2660 | 4-4100 | 0.434 | 14.5 | 13.5 | 2.31 | 1.298 | 75.4 | 0.721 | 3.340 | 35.1 | 193.9 | --- | 5.748 | -3.16 | 0.274 | 60.0 | 234.2 | -5.5 | 0.245 |
| 4-2660 | 4-4120 | 0.429 | 15.3 | 14.7 | 2.57 | 1.298 | 75.9 | 0.721 | 3.356 | 33.9 | 194.3 | --- | 5.776 | -3.40 | 0.276 | 59.4 | 235.1 | -5.8 | 0.246 |
| 4-2660 | 4-4140 | 0.423 | 16.1 | 16.1 | 2.87 | 1.299 | 76.4 | 0.721 | 3.373 | 32.7 | 194.6 | --- | 5.804 | -3.68 | 0.278 | 58.9 | 236.1 | -6.1 | 0.247 |
| 4-2660 | 4-4160 | 0.418 | 16.8 | 17.7 | 3.22 | 1.299 | 76.9 | 0.721 | 3.389 | 31.5 | 195.0 | --- | 5.832 | -4.02 | 0.279 | 58.4 | 237.1 | -6.4 | 0.249 |
| 4-2660 | 4-4180 | 0.413 | 17.4 | 19.6 | 3.65 | 1.300 | 77.4 | 0.721 | 3.406 | 30.3 | 195.4 | --- | 5.861 | -4.43 | 0.281 | 57.9 | 238.1 | -6.8 | 0.250 |
| 4-2660 | 4-4200 | 0.410 | 17.9 | 21.7 | 4.17 | 1.300 | 77.9 | 0.721 | 3.422 | 29.1 | 195.7 | --- | 5.889 | -4.94 | 0.283 | 57.5 | 239.1 | -7.3 | 0.251 |
| 4-2660 | 4-4220 | 0.407 | 18.2 | 24.2 | 4.82 | 1.301 | 78.4 | 0.721 | 3.439 | 27.9 | 196.0 | --- | 5.918 | -5.57 | 0.285 | 57.0 | 240.2 | -7.9 | 0.253 |
| 4-2660 | 4-4240 | 0.406 | 18.2 | 27.3 | 5.67 | 1.301 | 78.9 | 0.721 | 3.455 | 26.7 | 196.4 | --- | 5.947 | -6.40 | 0.287 | 56.6 | 241.3 | -8.7 | 0.255 |
| 4-2660 | 4-4260 | 0.407 | 17.7 | 31.2 | 6.80 | 1.302 | 79.4 | 0.721 | 3.471 | 25.5 | 196.7 | --- | 5.975 | -7.53 | 0.289 | 56.1 | 242.4 | -9.7 | 0.257 |
| 4-2670 | 4-2990 | 0.985 | 352.7 | -4.6 | -1.29 | 1.398 | 46.1 | 0.982 | 29.596 | 88.7 | 143.9 | --- | --- | -1.50 | 0.606 | 160.4 | 245.0 | -3.3 | 0.614 |
| 4-2670 | 4-3010 | 0.965 | 352.2 | -4.8 | -1.23 | 1.378 | 46.5 | 0.953 | 11.100 | 89.8 | 146.8 | --- | --- | -1.47 | 0.557 | 158.8 | 244.5 | -3.3 | 0.568 |
| 4-2670 | 4-3030 | 0.948 | 351.8 | -4.9 | -1.18 | 1.361 | 46.8 | 0.930 | 7.355 | 90.6 | 149.4 | --- | --- | -1.44 | 0.514 | 157.1 | 244.0 | -3.3 | 0.528 |
| 4-2670 | 4-3050 | 0.933 | 351.5 | -5.0 | -1.13 | 1.347 | 47.1 | 0.910 | 5.762 | 91.3 | 151.9 | --- | --- | -1.41 | 0.476 | 155.3 | 243.3 | -3.3 | 0.492 |
| 4-2670 | 4-3070 | 0.919 | 351.3 | -5.0 | -1.08 | 1.336 | 47.5 | 0.894 | 4.889 | 91.7 | 154.1 | --- | --- | -1.39 | 0.442 | 153.4 | 242.6 | -3.3 | 0.460 |
| 4-2670 | 4-3090 | 0.906 | 351.2 | -5.0 | -1.03 | 1.326 | 47.8 | 0.881 | 4.344 | 91.9 | 156.1 | --- | --- | -1.37 | 0.411 | 151.3 | 241.8 | -3.3 | 0.432 |
| 4-2670 | 4-3110 | 0.895 | 351.1 | -5.0 | -0.98 | 1.318 | 48.2 | 0.869 | 3.976 | 92.0 | 158.0 | --- | --- | -1.35 | 0.384 | 149.1 | 241.0 | -3.3 | 0.407 |
| 4-2670 | 4-3130 | 0.884 | 351.1 | -5.0 | -0.94 | 1.311 | 48.5 | 0.859 | 3.715 | 92.0 | 159.7 | --- | --- | -1.33 | 0.360 | 146.8 | 240.0 | -3.3 | 0.385 |
| 4-2670 | 4-3150 | 0.874 | 351.2 | -4.9 | -0.89 | 1.306 | 48.9 | 0.850 | 3.522 | 91.8 | 161.4 | --- | --- | -1.31 | 0.338 | 144.3 | 239.0 | -3.3 | 0.365 |
| 4-2670 | 4-3170 | 0.864 | 351.3 | -4.8 | -0.85 | 1.301 | 49.3 | 0.842 | 3.375 | 91.5 | 162.9 | --- | --- | -1.30 | 0.319 | 141.8 | 238.0 | -3.3 | 0.347 |
| 4-2670 | 4-3190 | 0.855 | 351.5 | -4.7 | -0.81 | 1.297 | 49.7 | 0.835 | 3.263 | 91.2 | 164.3 | --- | --- | -1.29 | 0.301 | 139.0 | 236.9 | -3.3 | 0.331 |
| 4-2670 | 4-3210 | 0.846 | 351.7 | -4.6 | -0.77 | 1.294 | 50.1 | 0.829 | 3.175 | 90.7 | 165.6 | --- | --- | -1.28 | 0.286 | 136.2 | 235.8 | -3.3 | 0.317 |
| 4-2670 | 4-3230 | 0.837 | 351.9 | -4.4 | -0.73 | 1.291 | 50.5 | 0.823 | 3.105 | 90.2 | 166.8 | --- | --- | -1.27 | 0.273 | 133.3 | 234.7 | -3.3 | 0.305 |
| 4-2670 | 4-3250 | 0.829 | 352.1 | -4.3 | -0.69 | 1.289 | 50.9 | 0.818 | 3.050 | 89.6 | 168.0 | --- | --- | -1.26 | 0.261 | 130.3 | 233.6 | -3.3 | 0.294 |
| 4-2670 | 4-3270 | 0.820 | 352.4 | -4.1 | -0.65 | 1.287 | 51.3 | 0.813 | 3.007 | 89.0 | 169.1 | --- | --- | -1.25 | 0.251 | 127.2 | 232.4 | -3.3 | 0.284 |
| 4-2670 | 4-3290 | 0.812 | 352.7 | -4.0 | -0.61 | 1.285 | 51.7 | 0.808 | 2.973 | 88.3 | 170.2 | --- | --- | -1.24 | 0.242 | 124.1 | 231.3 | -3.3 | 0.276 |
| 4-2670 | 4-3310 | 0.804 | 353.0 | -3.8 | -0.57 | 1.284 | 52.2 | 0.804 | 2.946 | 87.5 | 171.2 | --- | --- | -1.24 | 0.234 | 120.9 | 230.2 | -3.3 | 0.268 |
| 4-2670 | 4-3330 | 0.795 | 353.4 | -3.6 | -0.53 | 1.283 | 52.6 | 0.800 | 2.925 | 86.8 | 172.2 | --- | --- | -1.24 | 0.228 | 117.8 | 229.1 | -3.3 | 0.262 |
| 4-2670 | 4-3350 | 0.787 | 353.8 | -3.4 | -0.49 | 1.282 | 53.0 | 0.797 | 2.910 | 85.9 | 173.1 | --- | --- | -1.23 | 0.223 | 114.6 | 228.1 | -3.3 | 0.256 |
| 4-2670 | 4-3370 | 0.779 | 354.1 | -3.2 | -0.46 | 1.282 | 53.5 | 0.793 | 2.898 | 85.1 | 174.0 | --- | --- | -1.23 | 0.219 | 111.5 | 227.1 | -3.2 | 0.252 |
| 4-2670 | 4-3390 | 0.771 | 354.5 | -3.0 | -0.42 | 1.282 | 53.9 | 0.790 | 2.891 | 84.2 | 174.8 | --- | --- | -1.23 | 0.216 | 108.5 | 226.2 | -3.2 | 0.247 |
| 4-2670 | 4-3410 | 0.763 | 355.0 | -2.8 | -0.38 | 1.281 | 54.4 | 0.787 | 2.886 | 83.3 | 175.6 | --- | --- | -1.23 | 0.213 | 105.6 | 225.3 | -3.2 | 0.244 |
| 4-2670 | 4-3430 | 0.755 | 355.4 | -2.5 | -0.35 | 1.281 | 54.9 | 0.784 | 2.885 | 82.4 | 176.4 | --- | --- | -1.23 | 0.211 | 102.7 | 224.5 | -3.2 | 0.241 |
| 4-2670 | 4-3450 | 0.747 | 355.8 | -2.3 | -0.31 | 1.281 | 55.3 | 0.781 | 2.885 | 81.4 | 177.2 | --- | --- | -1.24 | 0.210 | 99.9 | 223.8 | -3.2 | 0.239 |
| 4-2670 | 4-3470 | 0.739 | 356.3 | -2.0 | -0.27 | 1.281 | 55.8 | 0.779 | 2.888 | 80.4 | 177.9 | --- | --- | -1.24 | 0.210 | 97.3 | 223.2 | -3.2 | 0.237 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2670 | 4-3490 | 0.731 | 356.8 | -1.8 | -0.23 | 1.282 | 56.3 | 0.776 | 2.892 | 79.4 | 178.6 | --- | --- | -1.25 | 0.210 | 94.8 | 222.6 | -3.2 | 0.235 |
| 4-2670 | 4-3510 | 0.723 | 357.2 | -1.5 | -0.20 | 1.282 | 56.7 | 0.774 | 2.898 | 78.4 | 179.3 | --- | --- | -1.25 | 0.210 | 92.4 | 222.2 | -3.2 | 0.234 |
| 4-2670 | 4-3530 | 0.715 | 357.7 | -1.2 | -0.16 | 1.282 | 57.2 | 0.771 | 2.905 | 77.4 | 180.0 | --- | --- | -1.26 | 0.211 | 90.1 | 221.8 | -3.2 | 0.233 |
| 4-2670 | 4-3550 | 0.707 | 358.2 | -1.0 | -0.12 | 1.283 | 57.7 | 0.769 | 2.913 | 76.3 | 180.6 | --- | 5.154 | -1.27 | 0.212 | 88.0 | 221.4 | -3.2 | 0.232 |
| 4-2670 | 4-3570 | 0.699 | 358.8 | -0.7 | -0.08 | 1.283 | 58.2 | 0.767 | 2.922 | 75.2 | 181.2 | --- | 5.164 | -1.28 | 0.213 | 85.9 | 221.2 | -3.2 | 0.232 |
| 4-2670 | 4-3590 | 0.691 | 359.3 | -0.4 | -0.04 | 1.283 | 58.7 | 0.765 | 2.932 | 74.2 | 181.8 | --- | 5.176 | -1.29 | 0.215 | 84.0 | 221.0 | -3.2 | 0.232 |
| 4-2670 | 4-3610 | 0.683 | 359.8 | -0.1 | -0.00 | 1.284 | 59.1 | 0.763 | 2.943 | 73.1 | 182.4 | --- | 5.190 | -1.31 | 0.216 | 82.2 | 220.9 | -3.2 | 0.232 |
| 4-2670 | 4-3630 | 0.675 | 0.4 | 0.2 | 0.04 | 1.284 | 59.6 | 0.761 | 2.955 | 72.0 | 183.0 | --- | 5.205 | -1.32 | 0.218 | 80.5 | 220.9 | -3.2 | 0.232 |
| 4-2670 | 4-3650 | 0.667 | 0.9 | 0.6 | 0.08 | 1.285 | 60.1 | 0.759 | 2.968 | 70.9 | 183.6 | --- | 5.221 | -1.33 | 0.220 | 78.9 | 221.0 | -3.3 | 0.232 |
| 4-2670 | 4-3670 | 0.659 | 1.5 | 0.9 | 0.12 | 1.286 | 60.6 | 0.758 | 2.981 | 69.8 | 184.1 | --- | 5.239 | -1.35 | 0.222 | 77.4 | 221.1 | -3.3 | 0.232 |
| 4-2670 | 4-3690 | 0.651 | 2.1 | 1.2 | 0.17 | 1.286 | 61.1 | 0.756 | 2.994 | 68.7 | 184.7 | --- | 5.258 | -1.37 | 0.224 | 75.9 | 221.3 | -3.3 | 0.233 |
| 4-2670 | 4-3710 | 0.643 | 2.7 | 1.6 | 0.21 | 1.287 | 61.6 | 0.754 | 3.008 | 67.5 | 185.2 | --- | 5.277 | -1.39 | 0.227 | 74.6 | 221.5 | -3.3 | 0.233 |
| 4-2670 | 4-3730 | 0.635 | 3.3 | 1.9 | 0.26 | 1.287 | 62.1 | 0.753 | 3.022 | 66.4 | 185.7 | --- | 5.298 | -1.41 | 0.229 | 73.3 | 221.8 | -3.4 | 0.234 |
| 4-2670 | 4-3750 | 0.627 | 3.9 | 2.3 | 0.31 | 1.288 | 62.6 | 0.751 | 3.037 | 65.2 | 186.2 | --- | 5.319 | -1.44 | 0.231 | 72.1 | 222.1 | -3.4 | 0.235 |
| 4-2670 | 4-3770 | 0.619 | 4.5 | 2.7 | 0.36 | 1.289 | 63.1 | 0.750 | 3.052 | 64.1 | 186.7 | --- | 5.341 | -1.46 | 0.234 | 71.0 | 222.5 | -3.4 | 0.236 |
| 4-2670 | 4-3790 | 0.611 | 5.1 | 3.0 | 0.41 | 1.289 | 63.6 | 0.749 | 3.067 | 62.9 | 187.2 | --- | 5.363 | -1.49 | 0.236 | 69.9 | 223.0 | -3.5 | 0.236 |
| 4-2670 | 4-3810 | 0.603 | 5.8 | 3.4 | 0.46 | 1.290 | 64.1 | 0.747 | 3.083 | 61.8 | 187.7 | --- | 5.387 | -1.52 | 0.238 | 68.9 | 223.4 | -3.5 | 0.237 |
| 4-2670 | 4-3830 | 0.595 | 6.4 | 3.9 | 0.51 | 1.291 | 64.5 | 0.746 | 3.099 | 60.6 | 188.1 | --- | 5.410 | -1.55 | 0.241 | 68.0 | 224.0 | -3.6 | 0.238 |
| 4-2670 | 4-3850 | 0.588 | 7.1 | 4.3 | 0.57 | 1.291 | 65.0 | 0.745 | 3.115 | 59.5 | 188.6 | --- | 5.434 | -1.59 | 0.243 | 67.1 | 224.5 | -3.6 | 0.239 |
| 4-2670 | 4-3870 | 0.580 | 7.7 | 4.7 | 0.63 | 1.292 | 65.5 | 0.744 | 3.131 | 58.3 | 189.1 | --- | 5.459 | -1.63 | 0.245 | 66.2 | 225.1 | -3.7 | 0.240 |
| 4-2670 | 4-3890 | 0.572 | 8.4 | 5.2 | 0.69 | 1.292 | 66.0 | 0.743 | 3.147 | 57.1 | 189.5 | --- | 5.484 | -1.67 | 0.248 | 65.4 | 225.8 | -3.8 | 0.241 |
| 4-2670 | 4-3910 | 0.564 | 9.1 | 5.7 | 0.76 | 1.293 | 66.5 | 0.742 | 3.163 | 55.9 | 189.9 | --- | 5.509 | -1.71 | 0.250 | 64.6 | 226.5 | -3.8 | 0.242 |
| 4-2670 | 4-3930 | 0.557 | 9.8 | 6.2 | 0.82 | 1.294 | 67.0 | 0.741 | 3.180 | 54.7 | 190.4 | --- | 5.535 | -1.76 | 0.252 | 63.9 | 227.2 | -3.9 | 0.243 |
| 4-2670 | 4-3950 | 0.549 | 10.5 | 6.7 | 0.90 | 1.294 | 67.5 | 0.740 | 3.197 | 53.6 | 190.8 | --- | 5.561 | -1.81 | 0.255 | 63.2 | 227.9 | -4.0 | 0.244 |
| 4-2670 | 4-3970 | 0.541 | 11.3 | 7.2 | 0.97 | 1.295 | 68.0 | 0.739 | 3.213 | 52.4 | 191.2 | --- | 5.587 | -1.87 | 0.257 | 62.5 | 228.7 | -4.0 | 0.245 |
| 4-2670 | 4-3990 | 0.534 | 12.0 | 7.7 | 1.06 | 1.296 | 68.5 | 0.738 | 3.230 | 51.2 | 191.6 | --- | 5.614 | -1.93 | 0.259 | 61.9 | 229.5 | -4.1 | 0.246 |
| 4-2670 | 4-4010 | 0.526 | 12.8 | 8.3 | 1.14 | 1.296 | 69.0 | 0.737 | 3.247 | 50.0 | 192.0 | --- | 5.640 | -2.00 | 0.261 | 61.2 | 230.3 | -4.2 | 0.247 |
| 4-2670 | 4-4030 | 0.519 | 13.5 | 8.9 | 1.24 | 1.297 | 69.5 | 0.736 | 3.264 | 48.8 | 192.4 | --- | 5.667 | -2.07 | 0.264 | 60.6 | 231.2 | -4.3 | 0.247 |
| 4-2670 | 4-4050 | 0.512 | 14.3 | 9.6 | 1.34 | 1.298 | 70.0 | 0.736 | 3.281 | 47.6 | 192.8 | --- | 5.695 | -2.16 | 0.266 | 60.1 | 232.1 | -4.4 | 0.248 |
| 4-2670 | 4-4070 | 0.504 | 15.1 | 10.2 | 1.45 | 1.298 | 70.5 | 0.735 | 3.298 | 46.4 | 193.1 | --- | 5.722 | -2.25 | 0.268 | 59.5 | 233.0 | -4.5 | 0.249 |
| 4-2670 | 4-4090 | 0.497 | 15.9 | 10.9 | 1.56 | 1.299 | 71.0 | 0.734 | 3.315 | 45.2 | 193.5 | --- | 5.749 | -2.35 | 0.270 | 59.0 | 233.9 | -4.6 | 0.250 |
| 4-2670 | 4-4110 | 0.490 | 16.7 | 11.7 | 1.69 | 1.299 | 71.6 | 0.734 | 3.332 | 44.0 | 193.9 | --- | 5.777 | -2.46 | 0.272 | 58.5 | 234.8 | -4.8 | 0.251 |
| 4-2670 | 4-4130 | 0.483 | 17.5 | 12.5 | 1.83 | 1.300 | 72.1 | 0.733 | 3.349 | 42.8 | 194.2 | --- | 5.805 | -2.58 | 0.274 | 58.0 | 235.8 | -4.9 | 0.252 |
| 4-2670 | 4-4150 | 0.476 | 18.3 | 13.4 | 1.99 | 1.300 | 72.6 | 0.733 | 3.366 | 41.6 | 194.6 | --- | 5.833 | -2.72 | 0.276 | 57.6 | 236.7 | -5.1 | 0.253 |
| 4-2670 | 4-4170 | 0.469 | 19.1 | 14.3 | 2.16 | 1.301 | 73.1 | 0.733 | 3.383 | 40.4 | 195.0 | --- | 5.861 | -2.87 | 0.278 | 57.1 | 237.7 | -5.2 | 0.254 |
| 4-2670 | 4-4190 | 0.463 | 19.9 | 15.3 | 2.35 | 1.302 | 73.6 | 0.732 | 3.400 | 39.2 | 195.3 | --- | 5.889 | -3.05 | 0.280 | 56.7 | 238.7 | -5.4 | 0.255 |
| 4-2670 | 4-4210 | 0.456 | 20.7 | 16.3 | 2.57 | 1.302 | 74.1 | 0.732 | 3.417 | 37.9 | 195.6 | --- | 5.917 | -3.25 | 0.282 | 56.2 | 239.8 | -5.6 | 0.256 |
| 4-2670 | 4-4230 | 0.450 | 21.5 | 17.5 | 2.82 | 1.303 | 74.6 | 0.732 | 3.434 | 36.7 | 196.0 | --- | 5.946 | -3.48 | 0.284 | 55.8 | 240.8 | -5.9 | 0.258 |
| 4-2670 | 4-4250 | 0.444 | 22.3 | 18.8 | 3.11 | 1.303 | 75.1 | 0.731 | 3.451 | 35.5 | 196.3 | --- | 5.974 | -3.75 | 0.286 | 55.4 | 241.9 | -6.1 | 0.259 |
| 4-2670 | 4-4270 | 0.439 | 23.0 | 20.3 | 3.44 | 1.304 | 75.6 | 0.731 | 3.467 | 34.3 | 196.6 | --- | 6.003 | -4.06 | 0.288 | 55.0 | 242.9 | -6.4 | 0.260 |
| 4-2680 | 4-3000 | 1.103 | 355.0 | -3.4 | -1.45 | 1.389 | 39.0 | 0.975 | 15.397 | 103.9 | 150.2 | --- | --- | -1.78 | 0.580 | 162.3 | 242.9 | -3.2 | 0.609 |
| 4-2680 | 4-3020 | 1.081 | 354.7 | -3.5 | -1.37 | 1.370 | 39.5 | 0.954 | 8.473 | 104.5 | 152.6 | --- | --- | -1.73 | 0.532 | 160.8 | 242.3 | -3.3 | 0.565 |
| 4-2680 | 4-3040 | 1.061 | 354.5 | -3.5 | -1.30 | 1.354 | 40.0 | 0.937 | 6.206 | 104.9 | 154.8 | --- | --- | -1.68 | 0.489 | 159.1 | 241.6 | -3.3 | 0.526 |
| 4-2680 | 4-3060 | 1.044 | 354.4 | -3.5 | -1.23 | 1.341 | 40.5 | 0.922 | 5.093 | 105.1 | 156.8 | --- | --- | -1.64 | 0.451 | 157.2 | 240.8 | -3.3 | 0.491 |
| 4-2680 | 4-3080 | 1.028 | 354.4 | -3.5 | -1.17 | 1.330 | 41.0 | 0.910 | 4.438 | 105.1 | 158.6 | --- | --- | -1.60 | 0.417 | 155.2 | 240.0 | -3.3 | 0.461 |
| 4-2680 | 4-3100 | 1.013 | 354.4 | -3.4 | -1.11 | 1.321 | 41.5 | 0.899 | 4.013 | 105.0 | 160.3 | --- | --- | -1.57 | 0.387 | 153.1 | 239.1 | -3.3 | 0.433 |
| 4-2680 | 4-3120 | 1.000 | 354.5 | -3.4 | -1.05 | 1.313 | 42.0 | 0.890 | 3.719 | 104.7 | 161.8 | --- | --- | -1.53 | 0.360 | 150.8 | 238.2 | -3.3 | 0.409 |
| 4-2680 | 4-3140 | 0.987 | 354.7 | -3.3 | -0.99 | 1.307 | 42.5 | 0.881 | 3.506 | 104.4 | 163.3 | --- | --- | -1.50 | 0.336 | 148.4 | 237.2 | -3.3 | 0.388 |
| 4-2680 | 4-3160 | 0.976 | 354.8 | -3.2 | -0.94 | 1.302 | 42.9 | 0.874 | 3.347 | 103.9 | 164.6 | --- | --- | -1.48 | 0.315 | 145.8 | 236.2 | -3.3 | 0.369 |
| 4-2680 | 4-3180 | 0.964 | 355.0 | -3.0 | -0.89 | 1.298 | 43.4 | 0.867 | 3.226 | 103.4 | 165.9 | --- | --- | -1.45 | 0.296 | 143.0 | 235.1 | -3.3 | 0.352 |
| 4-2680 | 4-3200 | 0.953 | 355.3 | -2.9 | -0.84 | 1.294 | 43.9 | 0.861 | 3.132 | 102.8 | 167.1 | --- | --- | -1.43 | 0.279 | 140.1 | 234.0 | -3.2 | 0.337 |
| 4-2680 | 4-3220 | 0.943 | 355.5 | -2.8 | -0.79 | 1.291 | 44.4 | 0.855 | 3.059 | 102.2 | 168.2 | --- | --- | -1.41 | 0.264 | 137.1 | 232.9 | -3.2 | 0.324 |
| 4-2680 | 4-3240 | 0.933 | 355.8 | -2.6 | -0.74 | 1.289 | 44.9 | 0.850 | 3.002 | 101.5 | 169.2 | --- | --- | -1.39 | 0.251 | 133.9 | 231.8 | -3.2 | 0.313 |
| 4-2680 | 4-3260 | 0.923 | 356.1 | -2.4 | -0.70 | 1.287 | 45.4 | 0.845 | 2.957 | 100.7 | 170.2 | --- | --- | -1.37 | 0.240 | 130.6 | 230.7 | -3.2 | 0.302 |
| 4-2680 | 4-3280 | 0.913 | 356.5 | -2.3 | -0.65 | 1.285 | 45.9 | 0.840 | 2.921 | 99.9 | 171.2 | --- | --- | -1.36 | 0.230 | 127.3 | 229.7 | -3.2 | 0.293 |
| 4-2680 | 4-3300 | 0.903 | 356.8 | -2.1 | -0.61 | 1.284 | 46.4 | 0.836 | 2.894 | 99.1 | 172.1 | --- | --- | -1.35 | 0.222 | 123.8 | 228.6 | -3.2 | 0.286 |
| 4-2680 | 4-3320 | 0.894 | 357.2 | -1.9 | -0.57 | 1.283 | 47.0 | 0.832 | 2.873 | 98.2 | 172.9 | --- | --- | -1.33 | 0.215 | 120.4 | 227.6 | -3.2 | 0.279 |
| 4-2680 | 4-3340 | 0.885 | 357.5 | -1.7 | -0.53 | 1.282 | 47.5 | 0.828 | 2.858 | 97.3 | 173.8 | --- | --- | -1.32 | 0.209 | 116.9 | 226.6 | -3.1 | 0.273 |
| 4-2680 | 4-3360 | 0.876 | 357.9 | -1.5 | -0.49 | 1.282 | 48.0 | 0.824 | 2.847 | 96.3 | 174.6 | --- | --- | -1.31 | 0.205 | 113.5 | 225.7 | -3.1 | 0.268 |
| 4-2680 | 4-3380 | 0.866 | 358.3 | -1.3 | -0.45 | 1.281 | 48.5 | 0.821 | 2.839 | 95.4 | 175.3 | --- | --- | -1.31 | 0.201 | 110.1 | 224.8 | -3.1 | 0.263 |
| 4-2680 | 4-3400 | 0.857 | 358.8 | -1.0 | -0.41 | 1.281 | 49.0 | 0.817 | 2.835 | 94.4 | 176.1 | --- | --- | -1.30 | 0.199 | 106.8 | 224.1 | -3.1 | 0.259 |
| 4-2680 | 4-3420 | 0.848 | 359.2 | -0.8 | -0.37 | 1.281 | 49.5 | 0.814 | 2.834 | 93.4 | 176.8 | --- | --- | -1.30 | 0.197 | 103.6 | 223.3 | -3.1 | 0.256 |
| 4-2680 | 4-3440 | 0.839 | 359.6 | -0.6 | -0.33 | 1.281 | 50.0 | 0.811 | 2.835 | 92.3 | 177.5 | --- | --- | -1.29 | 0.196 | 100.6 | 222.7 | -3.1 | 0.254 |
| 4-2680 | 4-3460 | 0.831 | 0.1 | -0.3 | -0.29 | 1.281 | 50.5 | 0.808 | 2.838 | 91.3 | 178.2 | --- | --- | -1.29 | 0.196 | 97.6 | 222.1 | -3.1 | 0.251 |
| 4-2680 | 4-3480 | 0.822 | 0.5 | -0.1 | -0.25 | 1.281 | 51.1 | 0.805 | 2.843 | 90.2 | 178.8 | --- | --- | -1.29 | 0.196 | 94.8 | 221.6 | -3.0 | 0.249 |
| 4-2680 | 4-3500 | 0.813 | 1.0 | 0.2 | -0.21 | 1.282 | 51.6 | 0.802 | 2.849 | 89.2 | 179.5 | --- | --- | -1.29 | 0.196 | 92.2 | 221.2 | -3.0 | 0.248 |
| 4-2680 | 4-3520 | 0.804 | 1.5 | 0.4 | -0.17 | 1.282 | 52.1 | 0.800 | 2.857 | 88.1 | 180.1 | --- | 5.142 | -1.29 | 0.197 | 89.7 | 220.9 | -3.0 | 0.247 |
| 4-2680 | 4-3540 | 0.795 | 2.0 | 0.7 | -0.13 | 1.283 | 52.6 | 0.797 | 2.866 | 87.0 | 180.7 | --- | 5.151 | -1.29 | 0.199 | 87.3 | 220.6 | -3.0 | 0.246 |
| 4-2680 | 4-3560 | 0.787 | 2.5 | 0.9 | -0.10 | 1.283 | 53.1 | 0.795 | 2.876 | 85.9 | 181.3 | --- | 5.161 | -1.29 | 0.200 | 85.1 | 220.4 | -3.0 | 0.245 |
| 4-2680 | 4-3580 | 0.778 | 3.0 | 1.2 | -0.06 | 1.284 | 53.7 | 0.792 | 2.887 | 84.8 | 181.8 | --- | 5.174 | -1.30 | 0.202 | 83.1 | 220.3 | -3.0 | 0.245 |
| 4-2680 | 4-3600 | 0.769 | 3.5 | 1.5 | -0.02 | 1.284 | 54.2 | 0.790 | 2.899 | 83.6 | 182.4 | --- | 5.188 | -1.30 | 0.204 | 81.1 | 220.3 | -3.1 | 0.244 |
| 4-2680 | 4-3620 | 0.760 | 4.0 | 1.8 | 0.02 | 1.285 | 54.7 | 0.787 | 2.911 | 82.5 | 182.9 | --- | 5.203 | -1.31 | 0.207 | 79.3 | 220.3 | -3.1 | 0.244 |
| 4-2680 | 4-3640 | 0.752 | 4.5 | 2.0 | 0.06 | 1.285 | 55.2 | 0.785 | 2.924 | 81.4 | 183.5 | --- | 5.220 | -1.32 | 0.209 | 77.6 | 220.4 | -3.1 | 0.244 |
| 4-2680 | 4-3660 | 0.743 | 5.0 | 2.3 | 0.10 | 1.286 | 55.7 | 0.783 | 2.938 | 80.2 | 184.0 | --- | 5.238 | -1.33 | 0.212 | 76.0 | 220.5 | -3.1 | 0.245 |
| 4-2680 | 4-3680 | 0.735 | 5.6 | 2.6 | 0.14 | 1.286 | 56.3 | 0.781 | 2.952 | 79.1 | 184.5 | --- | 5.257 | -1.34 | 0.214 | 74.5 | 220.7 | -3.1 | 0.245 |
| 4-2680 | 4-3700 | 0.726 | 6.1 | 2.9 | 0.18 | 1.287 | 56.8 | 0.779 | 2.967 | 77.9 | 185.0 | --- | 5.277 | -1.35 | 0.217 | 73.1 | 221.0 | -3.2 | 0.245 |
| 4-2680 | 4-3720 | 0.717 | 6.7 | 3.2 | 0.22 | 1.288 | 57.3 | 0.777 | 2.982 | 76.8 | 185.5 | --- | 5.298 | -1.36 | 0.219 | 71.8 | 221.3 | -3.2 | 0.245 |
| 4-2680 | 4-3740 | 0.709 | 7.2 | 3.6 | 0.26 | 1.288 | 57.8 | 0.775 | 2.997 | 75.6 | 186.0 | --- | 5.320 | -1.37 | 0.222 | 70.6 | 221.7 | -3.2 | 0.246 |
| 4-2680 | 4-3760 | 0.700 | 7.8 | 3.9 | 0.30 | 1.289 | 58.3 | 0.773 | 3.013 | 74.4 | 186.4 | --- | 5.342 | -1.39 | 0.225 | 69.4 | 222.1 | -3.2 | 0.246 |
| 4-2680 | 4-3780 | 0.692 | 8.4 | 4.2 | 0.35 | 1.290 | 58.9 | 0.771 | 3.029 | 73.2 | 186.9 | --- | 5.365 | -1.41 | 0.228 | 68.4 | 222.5 | -3.3 | 0.247 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2680 | 4-3800 | 0.683 | 9.0 | 4.6 | 0.39 | 1.290 | 59.4 | 0.770 | 3.045 | 72.1 | 187.4 | --- | 5.389 | -1.42 | 0.230 | 67.3 | 223.1 | -3.3 | 0.248 |
| 4-2680 | 4-3820 | 0.675 | 9.6 | 4.9 | 0.44 | 1.291 | 59.9 | 0.768 | 3.061 | 70.9 | 187.8 | --- | 5.413 | -1.44 | 0.233 | 66.4 | 223.6 | -3.4 | 0.248 |
| 4-2680 | 4-3840 | 0.666 | 10.2 | 5.3 | 0.48 | 1.292 | 60.4 | 0.766 | 3.078 | 69.7 | 188.3 | --- | 5.437 | -1.47 | 0.236 | 65.5 | 224.2 | -3.4 | 0.249 |
| 4-2680 | 4-3860 | 0.658 | 10.8 | 5.6 | 0.53 | 1.293 | 60.9 | 0.765 | 3.095 | 68.5 | 188.7 | --- | 5.462 | -1.49 | 0.238 | 64.6 | 224.8 | -3.4 | 0.250 |
| 4-2680 | 4-3880 | 0.650 | 11.4 | 6.0 | 0.58 | 1.293 | 61.5 | 0.763 | 3.112 | 67.3 | 189.1 | --- | 5.487 | -1.51 | 0.241 | 63.8 | 225.5 | -3.5 | 0.250 |
| 4-2680 | 4-3900 | 0.641 | 12.0 | 6.4 | 0.63 | 1.294 | 62.0 | 0.762 | 3.129 | 66.1 | 189.5 | --- | 5.512 | -1.54 | 0.243 | 63.1 | 226.2 | -3.5 | 0.251 |
| 4-2680 | 4-3920 | 0.633 | 12.7 | 6.8 | 0.68 | 1.295 | 62.5 | 0.760 | 3.146 | 64.9 | 190.0 | --- | 5.538 | -1.57 | 0.246 | 62.4 | 226.9 | -3.6 | 0.252 |
| 4-2680 | 4-3940 | 0.625 | 13.3 | 7.2 | 0.74 | 1.295 | 63.0 | 0.759 | 3.163 | 63.7 | 190.4 | --- | 5.564 | -1.60 | 0.249 | 61.7 | 227.6 | -3.7 | 0.253 |
| 4-2680 | 4-3960 | 0.616 | 14.0 | 7.6 | 0.80 | 1.296 | 63.5 | 0.758 | 3.181 | 62.5 | 190.8 | --- | 5.591 | -1.64 | 0.251 | 61.0 | 228.4 | -3.7 | 0.253 |
| 4-2680 | 4-3980 | 0.608 | 14.6 | 8.0 | 0.86 | 1.297 | 64.0 | 0.757 | 3.198 | 61.3 | 191.2 | --- | 5.617 | -1.68 | 0.253 | 60.4 | 229.2 | -3.8 | 0.254 |
| 4-2680 | 4-4000 | 0.600 | 15.3 | 8.5 | 0.92 | 1.297 | 64.6 | 0.755 | 3.215 | 60.1 | 191.5 | --- | 5.644 | -1.72 | 0.256 | 59.8 | 230.0 | -3.8 | 0.255 |
| 4-2680 | 4-4020 | 0.592 | 16.0 | 8.9 | 0.98 | 1.298 | 65.1 | 0.754 | 3.233 | 58.9 | 191.9 | --- | 5.671 | -1.76 | 0.258 | 59.2 | 230.9 | -3.9 | 0.256 |
| 4-2680 | 4-4040 | 0.584 | 16.7 | 9.4 | 1.05 | 1.299 | 65.6 | 0.753 | 3.250 | 57.7 | 192.3 | --- | 5.698 | -1.81 | 0.261 | 58.7 | 231.8 | -4.0 | 0.256 |
| 4-2680 | 4-4060 | 0.576 | 17.4 | 9.9 | 1.12 | 1.299 | 66.1 | 0.752 | 3.268 | 56.5 | 192.7 | --- | 5.726 | -1.86 | 0.263 | 58.2 | 232.7 | -4.1 | 0.257 |
| 4-2680 | 4-4080 | 0.568 | 18.1 | 10.4 | 1.20 | 1.300 | 66.6 | 0.751 | 3.286 | 55.3 | 193.1 | --- | 5.753 | -1.92 | 0.265 | 57.7 | 233.6 | -4.1 | 0.258 |
| 4-2680 | 4-4100 | 0.560 | 18.9 | 10.9 | 1.28 | 1.300 | 67.1 | 0.750 | 3.303 | 54.1 | 193.4 | --- | 5.781 | -1.98 | 0.268 | 57.2 | 234.5 | -4.2 | 0.259 |
| 4-2680 | 4-4120 | 0.552 | 19.6 | 11.5 | 1.37 | 1.301 | 67.6 | 0.749 | 3.321 | 52.9 | 193.8 | --- | 5.809 | -2.04 | 0.270 | 56.8 | 235.5 | -4.3 | 0.259 |
| 4-2680 | 4-4140 | 0.544 | 20.4 | 12.1 | 1.46 | 1.302 | 68.2 | 0.748 | 3.338 | 51.6 | 194.1 | --- | 5.836 | -2.11 | 0.272 | 56.3 | 236.5 | -4.4 | 0.260 |
| 4-2680 | 4-4160 | 0.536 | 21.1 | 12.7 | 1.56 | 1.302 | 68.7 | 0.747 | 3.356 | 50.4 | 194.5 | --- | 5.864 | -2.19 | 0.274 | 55.9 | 237.5 | -4.5 | 0.261 |
| 4-2680 | 4-4180 | 0.529 | 21.9 | 13.3 | 1.66 | 1.303 | 69.2 | 0.747 | 3.373 | 49.2 | 194.8 | --- | 5.892 | -2.28 | 0.276 | 55.5 | 238.5 | -4.6 | 0.262 |
| 4-2680 | 4-4200 | 0.521 | 22.7 | 14.0 | 1.78 | 1.303 | 69.7 | 0.746 | 3.391 | 48.0 | 195.2 | --- | 5.921 | -2.37 | 0.278 | 55.1 | 239.5 | -4.7 | 0.263 |
| 4-2680 | 4-4220 | 0.514 | 23.5 | 14.7 | 1.90 | 1.304 | 70.2 | 0.745 | 3.408 | 46.8 | 195.5 | --- | 5.949 | -2.48 | 0.280 | 54.7 | 240.5 | -4.8 | 0.263 |
| 4-2680 | 4-4240 | 0.506 | 24.3 | 15.4 | 2.04 | 1.305 | 70.7 | 0.745 | 3.426 | 45.6 | 195.8 | --- | 5.977 | -2.60 | 0.282 | 54.4 | 241.6 | -5.0 | 0.264 |
| 4-2680 | 4-4260 | 0.499 | 25.1 | 16.2 | 2.19 | 1.305 | 71.2 | 0.744 | 3.443 | 44.3 | 196.2 | --- | 6.005 | -2.73 | 0.284 | 54.0 | 242.6 | -5.1 | 0.265 |
| 4-2680 | 4-4280 | 0.492 | 25.9 | 17.1 | 2.35 | 1.306 | 71.8 | 0.744 | 3.461 | 43.1 | 196.5 | --- | 6.034 | -2.87 | 0.286 | 53.7 | 243.7 | -5.2 | 0.266 |
| 4-2690 | 4-3010 | 1.224 | 357.9 | -2.0 | -1.70 | 1.381 | 31.7 | 0.976 | 10.877 | 119.1 | 156.5 | --- | --- | -2.15 | 0.556 | 164.8 | 240.5 | -3.2 | 0.610 |
| 4-2690 | 4-3030 | 1.199 | 357.9 | -2.0 | -1.60 | 1.363 | 32.4 | 0.961 | 7.021 | 119.1 | 158.3 | --- | --- | -2.06 | 0.508 | 163.3 | 239.8 | -3.2 | 0.567 |
| 4-2690 | 4-3050 | 1.177 | 357.9 | -1.9 | -1.50 | 1.348 | 33.0 | 0.949 | 5.455 | 119.0 | 160.0 | --- | --- | -1.99 | 0.466 | 161.6 | 239.1 | -3.2 | 0.528 |
| 4-2690 | 4-3070 | 1.157 | 357.9 | -1.9 | -1.40 | 1.335 | 33.7 | 0.939 | 4.615 | 118.7 | 161.5 | --- | --- | -1.92 | 0.428 | 159.7 | 238.2 | -3.2 | 0.495 |
| 4-2690 | 4-3090 | 1.139 | 358.0 | -1.8 | -1.32 | 1.325 | 34.4 | 0.929 | 4.099 | 118.3 | 162.9 | --- | --- | -1.86 | 0.394 | 157.7 | 237.3 | -3.2 | 0.465 |
| 4-2690 | 4-3110 | 1.122 | 358.2 | -1.7 | -1.24 | 1.316 | 35.0 | 0.921 | 3.754 | 117.8 | 164.2 | --- | --- | -1.80 | 0.364 | 155.6 | 236.4 | -3.2 | 0.439 |
| 4-2690 | 4-3130 | 1.107 | 358.4 | -1.6 | -1.16 | 1.309 | 35.6 | 0.913 | 3.511 | 117.3 | 165.4 | --- | --- | -1.75 | 0.337 | 153.2 | 235.4 | -3.2 | 0.416 |
| 4-2690 | 4-3150 | 1.093 | 358.6 | -1.4 | -1.09 | 1.304 | 36.2 | 0.907 | 3.333 | 116.6 | 166.6 | --- | --- | -1.71 | 0.313 | 150.7 | 234.4 | -3.2 | 0.396 |
| 4-2690 | 4-3170 | 1.079 | 358.9 | -1.3 | -1.02 | 1.299 | 36.8 | 0.900 | 3.200 | 115.9 | 167.6 | --- | --- | -1.66 | 0.292 | 147.9 | 233.4 | -3.1 | 0.378 |
| 4-2690 | 4-3190 | 1.066 | 359.2 | -1.1 | -0.96 | 1.295 | 37.5 | 0.894 | 3.098 | 115.1 | 168.6 | --- | --- | -1.62 | 0.273 | 145.0 | 232.3 | -3.1 | 0.362 |
| 4-2690 | 4-3210 | 1.054 | 359.5 | -1.0 | -0.90 | 1.292 | 38.1 | 0.889 | 3.019 | 114.3 | 169.6 | --- | --- | -1.59 | 0.256 | 141.9 | 231.2 | -3.1 | 0.347 |
| 4-2690 | 4-3230 | 1.042 | 359.8 | -0.8 | -0.84 | 1.289 | 38.7 | 0.884 | 2.958 | 113.4 | 170.5 | --- | --- | -1.56 | 0.241 | 138.6 | 230.2 | -3.1 | 0.335 |
| 4-2690 | 4-3250 | 1.030 | 0.2 | -0.6 | -0.79 | 1.287 | 39.3 | 0.879 | 2.910 | 112.5 | 171.4 | --- | --- | -1.53 | 0.229 | 135.2 | 229.1 | -3.1 | 0.324 |
| 4-2690 | 4-3270 | 1.019 | 0.5 | -0.4 | -0.73 | 1.285 | 39.8 | 0.874 | 2.873 | 111.6 | 172.2 | --- | --- | -1.50 | 0.218 | 131.5 | 228.1 | -3.1 | 0.314 |
| 4-2690 | 4-3290 | 1.008 | 0.9 | -0.2 | -0.68 | 1.284 | 40.4 | 0.870 | 2.844 | 110.7 | 173.0 | --- | --- | -1.47 | 0.208 | 127.8 | 227.1 | -3.0 | 0.306 |
| 4-2690 | 4-3310 | 0.997 | 1.3 | -0.0 | -0.63 | 1.283 | 41.0 | 0.865 | 2.822 | 109.7 | 173.7 | --- | --- | -1.45 | 0.200 | 124.0 | 226.1 | -3.0 | 0.298 |
| 4-2690 | 4-3330 | 0.987 | 1.7 | 0.2 | -0.58 | 1.282 | 41.6 | 0.861 | 2.806 | 108.7 | 174.5 | --- | --- | -1.43 | 0.194 | 120.2 | 225.2 | -3.0 | 0.292 |
| 4-2690 | 4-3350 | 0.976 | 2.1 | 0.4 | -0.53 | 1.281 | 42.2 | 0.857 | 2.795 | 107.6 | 175.2 | --- | --- | -1.41 | 0.189 | 116.3 | 224.4 | -3.0 | 0.286 |
| 4-2690 | 4-3370 | 0.966 | 2.5 | 0.6 | -0.49 | 1.281 | 42.8 | 0.854 | 2.788 | 106.6 | 175.9 | --- | --- | -1.40 | 0.185 | 112.5 | 223.6 | -3.0 | 0.281 |
| 4-2690 | 4-3390 | 0.956 | 2.9 | 0.8 | -0.44 | 1.281 | 43.3 | 0.850 | 2.784 | 105.5 | 176.5 | --- | --- | -1.38 | 0.182 | 108.7 | 222.9 | -2.9 | 0.277 |
| 4-2690 | 4-3410 | 0.946 | 3.4 | 1.1 | -0.40 | 1.281 | 43.9 | 0.846 | 2.783 | 104.4 | 177.2 | --- | --- | -1.37 | 0.180 | 105.1 | 222.2 | -2.9 | 0.274 |
| 4-2690 | 4-3430 | 0.936 | 3.8 | 1.3 | -0.36 | 1.281 | 44.5 | 0.843 | 2.784 | 103.3 | 177.8 | --- | --- | -1.35 | 0.179 | 101.6 | 221.6 | -2.9 | 0.271 |
| 4-2690 | 4-3450 | 0.926 | 4.3 | 1.5 | -0.32 | 1.281 | 45.1 | 0.840 | 2.787 | 102.2 | 178.4 | --- | --- | -1.34 | 0.179 | 98.2 | 221.1 | -2.9 | 0.268 |
| 4-2690 | 4-3470 | 0.916 | 4.7 | 1.7 | -0.27 | 1.281 | 45.6 | 0.836 | 2.793 | 101.1 | 179.0 | --- | --- | -1.34 | 0.179 | 95.1 | 220.7 | -2.9 | 0.266 |
| 4-2690 | 4-3490 | 0.907 | 5.2 | 2.0 | -0.23 | 1.282 | 46.2 | 0.833 | 2.799 | 100.0 | 179.6 | --- | --- | -1.33 | 0.180 | 92.1 | 220.3 | -2.9 | 0.264 |
| 4-2690 | 4-3510 | 0.897 | 5.7 | 2.2 | -0.19 | 1.282 | 46.8 | 0.830 | 2.808 | 98.8 | 180.1 | --- | 5.138 | -1.32 | 0.182 | 89.3 | 220.1 | -2.9 | 0.263 |
| 4-2690 | 4-3530 | 0.888 | 6.1 | 2.5 | -0.15 | 1.282 | 47.3 | 0.827 | 2.817 | 97.7 | 180.7 | --- | 5.147 | -1.32 | 0.184 | 86.6 | 219.9 | -2.9 | 0.261 |
| 4-2690 | 4-3550 | 0.878 | 6.6 | 2.7 | -0.12 | 1.283 | 47.9 | 0.824 | 2.828 | 96.5 | 181.2 | --- | 5.158 | -1.31 | 0.186 | 84.2 | 219.7 | -2.9 | 0.261 |
| 4-2690 | 4-3570 | 0.869 | 7.1 | 3.0 | -0.08 | 1.283 | 48.5 | 0.821 | 2.839 | 95.4 | 181.8 | --- | 5.171 | -1.31 | 0.188 | 81.9 | 219.6 | -2.9 | 0.260 |
| 4-2690 | 4-3590 | 0.859 | 7.6 | 3.2 | -0.04 | 1.284 | 49.0 | 0.819 | 2.851 | 94.2 | 182.3 | --- | 5.186 | -1.31 | 0.191 | 79.8 | 219.6 | -2.9 | 0.259 |
| 4-2690 | 4-3610 | 0.850 | 8.1 | 3.5 | -0.00 | 1.285 | 49.6 | 0.816 | 2.865 | 93.0 | 182.8 | --- | 5.202 | -1.31 | 0.193 | 77.8 | 219.7 | -2.9 | 0.259 |
| 4-2690 | 4-3630 | 0.841 | 8.6 | 3.8 | 0.04 | 1.285 | 50.1 | 0.813 | 2.878 | 91.9 | 183.3 | --- | 5.219 | -1.31 | 0.196 | 76.0 | 219.8 | -2.9 | 0.259 |
| 4-2690 | 4-3650 | 0.831 | 9.1 | 4.0 | 0.08 | 1.286 | 50.7 | 0.811 | 2.892 | 90.7 | 183.8 | --- | 5.238 | -1.31 | 0.199 | 74.3 | 220.0 | -2.9 | 0.258 |
| 4-2690 | 4-3670 | 0.822 | 9.6 | 4.3 | 0.11 | 1.287 | 51.2 | 0.808 | 2.907 | 89.5 | 184.3 | --- | 5.257 | -1.31 | 0.202 | 72.7 | 220.2 | -3.0 | 0.258 |
| 4-2690 | 4-3690 | 0.813 | 10.2 | 4.6 | 0.15 | 1.287 | 51.8 | 0.806 | 2.923 | 88.3 | 184.7 | --- | 5.278 | -1.31 | 0.205 | 71.3 | 220.5 | -3.0 | 0.259 |
| 4-2690 | 4-3710 | 0.804 | 10.7 | 4.9 | 0.19 | 1.288 | 52.4 | 0.804 | 2.938 | 87.1 | 185.2 | --- | 5.299 | -1.32 | 0.208 | 69.9 | 220.9 | -3.0 | 0.259 |
| 4-2690 | 4-3730 | 0.795 | 11.2 | 5.1 | 0.23 | 1.289 | 52.9 | 0.801 | 2.954 | 85.9 | 185.7 | --- | 5.321 | -1.32 | 0.212 | 68.7 | 221.3 | -3.0 | 0.259 |
| 4-2690 | 4-3750 | 0.785 | 11.8 | 5.4 | 0.27 | 1.289 | 53.5 | 0.799 | 2.970 | 84.7 | 186.1 | --- | 5.344 | -1.33 | 0.215 | 67.5 | 221.7 | -3.1 | 0.259 |
| 4-2690 | 4-3770 | 0.776 | 12.3 | 5.7 | 0.31 | 1.290 | 54.0 | 0.797 | 2.987 | 83.5 | 186.6 | --- | 5.367 | -1.34 | 0.218 | 66.4 | 222.2 | -3.1 | 0.260 |
| 4-2690 | 4-3790 | 0.767 | 12.9 | 6.0 | 0.35 | 1.291 | 54.5 | 0.795 | 3.004 | 82.3 | 187.0 | --- | 5.391 | -1.35 | 0.221 | 65.4 | 222.7 | -3.1 | 0.260 |
| 4-2690 | 4-3810 | 0.758 | 13.4 | 6.3 | 0.39 | 1.292 | 55.1 | 0.793 | 3.021 | 81.1 | 187.4 | --- | 5.415 | -1.36 | 0.224 | 64.4 | 223.3 | -3.2 | 0.260 |
| 4-2690 | 4-3830 | 0.749 | 14.0 | 6.6 | 0.43 | 1.292 | 55.6 | 0.791 | 3.038 | 79.9 | 187.8 | --- | 5.440 | -1.37 | 0.227 | 63.5 | 223.9 | -3.2 | 0.261 |
| 4-2690 | 4-3850 | 0.740 | 14.5 | 7.0 | 0.47 | 1.293 | 56.2 | 0.789 | 3.056 | 78.7 | 188.3 | --- | 5.465 | -1.39 | 0.230 | 62.7 | 224.5 | -3.2 | 0.261 |
| 4-2690 | 4-3870 | 0.731 | 15.1 | 7.3 | 0.51 | 1.294 | 56.7 | 0.787 | 3.073 | 77.5 | 188.7 | --- | 5.491 | -1.40 | 0.233 | 61.9 | 225.2 | -3.3 | 0.262 |
| 4-2690 | 4-3890 | 0.722 | 15.7 | 7.6 | 0.55 | 1.295 | 57.3 | 0.785 | 3.091 | 76.3 | 189.1 | --- | 5.517 | -1.42 | 0.236 | 61.1 | 225.9 | -3.3 | 0.262 |
| 4-2690 | 4-3910 | 0.714 | 16.3 | 7.9 | 0.60 | 1.295 | 57.8 | 0.783 | 3.109 | 75.1 | 189.5 | --- | 5.543 | -1.43 | 0.239 | 60.4 | 226.6 | -3.4 | 0.263 |
| 4-2690 | 4-3930 | 0.705 | 16.9 | 8.3 | 0.64 | 1.296 | 58.3 | 0.781 | 3.126 | 73.9 | 189.9 | --- | 5.569 | -1.45 | 0.241 | 59.8 | 227.4 | -3.4 | 0.263 |
| 4-2690 | 4-3950 | 0.696 | 17.5 | 8.6 | 0.69 | 1.297 | 58.9 | 0.780 | 3.144 | 72.6 | 190.3 | --- | 5.596 | -1.47 | 0.244 | 59.2 | 228.2 | -3.5 | 0.264 |
| 4-2690 | 4-3970 | 0.687 | 18.1 | 9.0 | 0.74 | 1.297 | 59.4 | 0.778 | 3.162 | 71.4 | 190.7 | --- | 5.623 | -1.50 | 0.247 | 58.6 | 229.0 | -3.5 | 0.264 |
| 4-2690 | 4-3990 | 0.678 | 18.7 | 9.3 | 0.78 | 1.298 | 59.9 | 0.776 | 3.180 | 70.2 | 191.0 | --- | 5.650 | -1.52 | 0.250 | 58.0 | 229.8 | -3.6 | 0.265 |
| 4-2690 | 4-4010 | 0.670 | 19.4 | 9.7 | 0.83 | 1.299 | 60.5 | 0.775 | 3.199 | 69.0 | 191.4 | --- | 5.677 | -1.55 | 0.252 | 57.5 | 230.7 | -3.6 | 0.265 |
| 4-2690 | 4-4030 | 0.661 | 20.0 | 10.1 | 0.89 | 1.299 | 61.0 | 0.773 | 3.217 | 67.8 | 191.8 | --- | 5.704 | -1.57 | 0.255 | 57.0 | 231.6 | -3.7 | 0.266 |
| 4-2690 | 4-4050 | 0.652 | 20.6 | 10.5 | 0.94 | 1.300 | 61.5 | 0.772 | 3.235 | 66.6 | 192.1 | --- | 5.732 | -1.61 | 0.257 | 56.5 | 232.5 | -3.7 | 0.267 |
| 4-2690 | 4-4070 | 0.644 | 21.3 | 10.9 | 0.99 | 1.301 | 62.1 | 0.770 | 3.253 | 65.3 | 192.5 | --- | 5.759 | -1.64 | 0.260 | 56.0 | 233.4 | -3.8 | 0.267 |
| 4-2690 | 4-4090 | 0.635 | 22.0 | 11.3 | 1.05 | 1.301 | 62.6 | 0.769 | 3.271 | 64.1 | 192.9 | --- | 5.787 | -1.67 | 0.262 | 55.6 | 234.3 | -3.8 | 0.268 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2690 | 4-4110 | 0.627 | 22.6 | 11.7 | 1.11 | 1.302 | 63.1 | 0.768 | 3.289 | 62.9 | 193.2 | --- | 5.815 | -1.71 | 0.265 | 55.2 | 235.3 | -3.9 | 0.268 |
| 4-2690 | 4-4130 | 0.618 | 23.3 | 12.1 | 1.18 | 1.303 | 63.7 | 0.767 | 3.307 | 61.7 | 193.6 | --- | 5.843 | -1.75 | 0.267 | 54.8 | 236.3 | -4.0 | 0.269 |
| 4-2690 | 4-4150 | 0.610 | 24.0 | 12.6 | 1.24 | 1.303 | 64.2 | 0.765 | 3.326 | 60.5 | 193.9 | --- | 5.871 | -1.80 | 0.269 | 54.4 | 237.2 | -4.0 | 0.269 |
| 4-2690 | 4-4170 | 0.602 | 24.7 | 13.0 | 1.31 | 1.304 | 64.7 | 0.764 | 3.344 | 59.3 | 194.3 | --- | 5.899 | -1.85 | 0.272 | 54.0 | 238.2 | -4.1 | 0.270 |
| 4-2690 | 4-4190 | 0.593 | 25.4 | 13.5 | 1.38 | 1.305 | 65.2 | 0.763 | 3.362 | 58.0 | 194.6 | --- | 5.927 | -1.90 | 0.274 | 53.7 | 239.3 | -4.2 | 0.271 |
| 4-2690 | 4-4210 | 0.585 | 26.1 | 14.0 | 1.46 | 1.305 | 65.8 | 0.762 | 3.380 | 56.8 | 194.9 | --- | 5.955 | -1.96 | 0.276 | 53.3 | 240.3 | -4.3 | 0.271 |
| 4-2690 | 4-4230 | 0.577 | 26.9 | 14.5 | 1.54 | 1.306 | 66.3 | 0.761 | 3.398 | 55.6 | 195.3 | --- | 5.983 | -2.02 | 0.278 | 53.0 | 241.3 | -4.3 | 0.272 |
| 4-2690 | 4-4250 | 0.569 | 27.6 | 15.1 | 1.63 | 1.306 | 66.8 | 0.760 | 3.416 | 54.4 | 195.6 | --- | 6.012 | -2.08 | 0.281 | 52.7 | 242.4 | -4.4 | 0.272 |
| 4-2690 | 4-4270 | 0.561 | 28.4 | 15.6 | 1.72 | 1.307 | 67.3 | 0.759 | 3.434 | 53.1 | 195.9 | --- | 6.040 | -2.16 | 0.283 | 52.4 | 243.5 | -4.5 | 0.273 |
| 4-2690 | 4-4290 | 0.553 | 29.2 | 16.2 | 1.82 | 1.308 | 67.9 | 0.758 | 3.452 | 51.9 | 196.2 | --- | 6.068 | -2.24 | 0.285 | 52.1 | 244.6 | -4.6 | 0.273 |
| 4-2700 | 4-3020 | 1.345 | 1.3 | -0.4 | -2.14 | 1.375 | 24.2 | 0.982 | 8.780 | 134.1 | 162.6 | --- | --- | -2.70 | 0.535 | 167.9 | 238.2 | -3.1 | 0.616 |
| 4-2700 | 4-3040 | 1.318 | 1.5 | -0.3 | -1.98 | 1.357 | 25.1 | 0.973 | 6.150 | 133.5 | 163.8 | --- | --- | -2.55 | 0.488 | 166.4 | 237.4 | -3.1 | 0.574 |
| 4-2700 | 4-3060 | 1.293 | 1.6 | -0.2 | -1.83 | 1.343 | 25.9 | 0.965 | 4.953 | 132.8 | 164.9 | --- | --- | -2.42 | 0.445 | 164.7 | 236.6 | -3.1 | 0.536 |
| 4-2700 | 4-3080 | 1.271 | 1.8 | -0.1 | -1.69 | 1.331 | 26.8 | 0.957 | 4.276 | 132.1 | 165.9 | --- | --- | -2.31 | 0.407 | 162.9 | 235.7 | -3.1 | 0.504 |
| 4-2700 | 4-3100 | 1.251 | 2.1 | 0.1 | -1.57 | 1.321 | 27.6 | 0.950 | 3.847 | 131.3 | 166.9 | --- | --- | -2.21 | 0.373 | 161.0 | 234.8 | -3.1 | 0.475 |
| 4-2700 | 4-3120 | 1.232 | 2.3 | 0.2 | -1.45 | 1.313 | 28.4 | 0.944 | 3.556 | 130.4 | 167.8 | --- | --- | -2.12 | 0.343 | 158.8 | 233.8 | -3.1 | 0.450 |
| 4-2700 | 4-3140 | 1.215 | 2.6 | 0.4 | -1.35 | 1.306 | 29.1 | 0.938 | 3.348 | 129.5 | 168.7 | --- | --- | -2.03 | 0.316 | 156.4 | 232.8 | -3.0 | 0.427 |
| 4-2700 | 4-3160 | 1.198 | 3.0 | 0.5 | -1.25 | 1.301 | 29.9 | 0.932 | 3.195 | 128.6 | 169.6 | --- | --- | -1.96 | 0.291 | 153.8 | 231.8 | -3.0 | 0.407 |
| 4-2700 | 4-3180 | 1.183 | 3.3 | 0.7 | -1.16 | 1.296 | 30.6 | 0.927 | 3.080 | 127.6 | 170.4 | --- | --- | -1.89 | 0.270 | 151.0 | 230.8 | -3.0 | 0.390 |
| 4-2700 | 4-3200 | 1.169 | 3.7 | 0.9 | -1.08 | 1.293 | 31.3 | 0.922 | 2.992 | 126.6 | 171.1 | --- | --- | -1.83 | 0.251 | 147.9 | 229.7 | -3.0 | 0.375 |
| 4-2700 | 4-3220 | 1.155 | 4.0 | 1.1 | -1.00 | 1.290 | 32.0 | 0.917 | 2.924 | 125.6 | 171.9 | --- | --- | -1.78 | 0.234 | 144.6 | 228.7 | -3.0 | 0.361 |
| 4-2700 | 4-3240 | 1.141 | 4.4 | 1.3 | -0.93 | 1.287 | 32.7 | 0.912 | 2.871 | 124.5 | 172.6 | --- | --- | -1.73 | 0.219 | 141.0 | 227.7 | -3.0 | 0.349 |
| 4-2700 | 4-3260 | 1.128 | 4.8 | 1.5 | -0.86 | 1.285 | 33.4 | 0.908 | 2.830 | 123.4 | 173.2 | --- | --- | -1.68 | 0.206 | 137.3 | 226.7 | -2.9 | 0.339 |
| 4-2700 | 4-3280 | 1.116 | 5.2 | 1.7 | -0.79 | 1.284 | 34.1 | 0.903 | 2.799 | 122.3 | 173.9 | --- | --- | -1.64 | 0.195 | 133.3 | 225.8 | -2.9 | 0.329 |
| 4-2700 | 4-3300 | 1.104 | 5.7 | 1.9 | -0.73 | 1.283 | 34.8 | 0.899 | 2.776 | 121.2 | 174.5 | --- | --- | -1.60 | 0.186 | 129.1 | 224.9 | -2.9 | 0.321 |
| 4-2700 | 4-3320 | 1.092 | 6.1 | 2.1 | -0.67 | 1.282 | 35.5 | 0.895 | 2.758 | 120.1 | 175.2 | --- | --- | -1.57 | 0.178 | 124.8 | 224.0 | -2.9 | 0.314 |
| 4-2700 | 4-3340 | 1.080 | 6.5 | 2.4 | -0.61 | 1.281 | 36.1 | 0.891 | 2.746 | 119.0 | 175.8 | --- | --- | -1.54 | 0.172 | 120.4 | 223.3 | -2.8 | 0.308 |
| 4-2700 | 4-3360 | 1.069 | 7.0 | 2.6 | -0.56 | 1.281 | 36.8 | 0.887 | 2.738 | 117.8 | 176.4 | --- | --- | -1.51 | 0.167 | 116.0 | 222.5 | -2.8 | 0.303 |
| 4-2700 | 4-3380 | 1.058 | 7.4 | 2.8 | -0.50 | 1.280 | 37.4 | 0.883 | 2.734 | 116.7 | 177.0 | --- | --- | -1.48 | 0.164 | 111.7 | 221.9 | -2.8 | 0.298 |
| 4-2700 | 4-3400 | 1.047 | 7.9 | 3.0 | -0.45 | 1.280 | 38.1 | 0.879 | 2.732 | 115.5 | 177.5 | --- | --- | -1.46 | 0.162 | 107.4 | 221.3 | -2.8 | 0.294 |
| 4-2700 | 4-3420 | 1.036 | 8.3 | 3.2 | -0.41 | 1.280 | 38.7 | 0.876 | 2.734 | 114.3 | 178.1 | --- | --- | -1.43 | 0.161 | 103.3 | 220.8 | -2.8 | 0.290 |
| 4-2700 | 4-3440 | 1.025 | 8.8 | 3.5 | -0.36 | 1.281 | 39.3 | 0.872 | 2.737 | 113.2 | 178.6 | --- | --- | -1.41 | 0.160 | 99.4 | 220.3 | -2.8 | 0.287 |
| 4-2700 | 4-3460 | 1.014 | 9.2 | 3.7 | -0.31 | 1.281 | 40.0 | 0.869 | 2.742 | 112.0 | 179.1 | --- | --- | -1.39 | 0.161 | 95.6 | 219.9 | -2.8 | 0.285 |
| 4-2700 | 4-3480 | 1.004 | 9.7 | 3.9 | -0.27 | 1.281 | 40.6 | 0.865 | 2.749 | 110.8 | 179.7 | --- | --- | -1.38 | 0.162 | 92.2 | 219.6 | -2.7 | 0.283 |
| 4-2700 | 4-3500 | 0.993 | 10.2 | 4.2 | -0.22 | 1.282 | 41.2 | 0.862 | 2.758 | 109.6 | 180.2 | --- | 5.135 | -1.36 | 0.164 | 88.9 | 219.4 | -2.7 | 0.281 |
| 4-2700 | 4-3520 | 0.983 | 10.7 | 4.4 | -0.18 | 1.282 | 41.8 | 0.859 | 2.768 | 108.4 | 180.7 | --- | 5.144 | -1.35 | 0.166 | 85.9 | 219.2 | -2.7 | 0.279 |
| 4-2700 | 4-3540 | 0.973 | 11.1 | 4.7 | -0.14 | 1.283 | 42.4 | 0.855 | 2.779 | 107.2 | 181.2 | --- | 5.155 | -1.34 | 0.169 | 83.1 | 219.1 | -2.7 | 0.278 |
| 4-2700 | 4-3560 | 0.963 | 11.6 | 4.9 | -0.10 | 1.283 | 43.1 | 0.852 | 2.790 | 106.0 | 181.7 | --- | 5.169 | -1.33 | 0.172 | 80.6 | 219.1 | -2.7 | 0.277 |
| 4-2700 | 4-3580 | 0.953 | 12.1 | 5.1 | -0.06 | 1.284 | 43.7 | 0.849 | 2.803 | 104.8 | 182.1 | --- | 5.184 | -1.32 | 0.175 | 78.2 | 219.2 | -2.8 | 0.276 |
| 4-2700 | 4-3600 | 0.943 | 12.6 | 5.4 | -0.02 | 1.285 | 44.3 | 0.846 | 2.817 | 103.5 | 182.6 | --- | 5.200 | -1.31 | 0.178 | 76.1 | 219.3 | -2.8 | 0.275 |
| 4-2700 | 4-3620 | 0.933 | 13.1 | 5.6 | 0.02 | 1.285 | 44.9 | 0.843 | 2.831 | 102.3 | 183.1 | --- | 5.218 | -1.30 | 0.182 | 74.1 | 219.4 | -2.8 | 0.275 |
| 4-2700 | 4-3640 | 0.923 | 13.6 | 5.9 | 0.06 | 1.286 | 45.5 | 0.840 | 2.846 | 101.1 | 183.5 | --- | 5.237 | -1.30 | 0.185 | 72.3 | 219.6 | -2.8 | 0.274 |
| 4-2700 | 4-3660 | 0.913 | 14.1 | 6.1 | 0.10 | 1.287 | 46.1 | 0.838 | 2.861 | 99.9 | 184.0 | --- | 5.257 | -1.29 | 0.189 | 70.6 | 219.9 | -2.8 | 0.274 |
| 4-2700 | 4-3680 | 0.903 | 14.6 | 6.4 | 0.13 | 1.287 | 46.6 | 0.835 | 2.877 | 98.7 | 184.4 | --- | 5.278 | -1.29 | 0.192 | 69.0 | 220.2 | -2.8 | 0.274 |
| 4-2700 | 4-3700 | 0.893 | 15.1 | 6.7 | 0.17 | 1.288 | 47.2 | 0.832 | 2.893 | 97.5 | 184.8 | --- | 5.300 | -1.29 | 0.196 | 67.6 | 220.6 | -2.8 | 0.274 |
| 4-2700 | 4-3720 | 0.883 | 15.7 | 6.9 | 0.21 | 1.289 | 47.8 | 0.829 | 2.909 | 96.2 | 185.3 | --- | 5.322 | -1.29 | 0.199 | 66.3 | 221.0 | -2.9 | 0.274 |
| 4-2700 | 4-3740 | 0.874 | 16.2 | 7.2 | 0.24 | 1.290 | 48.4 | 0.827 | 2.926 | 95.0 | 185.7 | --- | 5.346 | -1.29 | 0.203 | 65.1 | 221.5 | -2.9 | 0.274 |
| 4-2700 | 4-3760 | 0.864 | 16.7 | 7.4 | 0.28 | 1.291 | 49.0 | 0.824 | 2.943 | 93.8 | 186.1 | --- | 5.369 | -1.29 | 0.207 | 64.0 | 222.0 | -2.9 | 0.274 |
| 4-2700 | 4-3780 | 0.854 | 17.2 | 7.7 | 0.32 | 1.291 | 49.6 | 0.822 | 2.961 | 92.6 | 186.5 | --- | 5.394 | -1.29 | 0.210 | 63.0 | 222.5 | -3.0 | 0.274 |
| 4-2700 | 4-3800 | 0.845 | 17.8 | 8.0 | 0.36 | 1.292 | 50.1 | 0.819 | 2.978 | 91.3 | 186.9 | --- | 5.419 | -1.29 | 0.214 | 62.0 | 223.1 | -3.0 | 0.274 |
| 4-2700 | 4-3820 | 0.835 | 18.3 | 8.3 | 0.39 | 1.293 | 50.7 | 0.817 | 2.996 | 90.1 | 187.4 | --- | 5.444 | -1.30 | 0.217 | 61.1 | 223.7 | -3.0 | 0.274 |
| 4-2700 | 4-3840 | 0.826 | 18.8 | 8.5 | 0.43 | 1.294 | 51.3 | 0.815 | 3.014 | 88.9 | 187.8 | --- | 5.469 | -1.30 | 0.220 | 60.3 | 224.4 | -3.1 | 0.275 |
| 4-2700 | 4-3860 | 0.816 | 19.4 | 8.8 | 0.47 | 1.294 | 51.8 | 0.812 | 3.032 | 87.7 | 188.1 | --- | 5.495 | -1.31 | 0.224 | 59.5 | 225.0 | -3.1 | 0.275 |
| 4-2700 | 4-3880 | 0.807 | 19.9 | 9.1 | 0.50 | 1.295 | 52.4 | 0.810 | 3.050 | 86.4 | 188.5 | --- | 5.522 | -1.31 | 0.227 | 58.8 | 225.7 | -3.1 | 0.275 |
| 4-2700 | 4-3900 | 0.798 | 20.5 | 9.4 | 0.54 | 1.296 | 53.0 | 0.808 | 3.069 | 85.2 | 188.9 | --- | 5.548 | -1.32 | 0.230 | 58.1 | 226.5 | -3.2 | 0.275 |
| 4-2700 | 4-3920 | 0.788 | 21.1 | 9.7 | 0.58 | 1.297 | 53.5 | 0.806 | 3.087 | 84.0 | 189.3 | --- | 5.575 | -1.33 | 0.233 | 57.5 | 227.3 | -3.2 | 0.276 |
| 4-2700 | 4-3940 | 0.779 | 21.6 | 10.0 | 0.62 | 1.297 | 54.1 | 0.804 | 3.105 | 82.7 | 189.7 | --- | 5.602 | -1.34 | 0.236 | 56.9 | 228.0 | -3.2 | 0.276 |
| 4-2700 | 4-3960 | 0.770 | 22.2 | 10.3 | 0.66 | 1.298 | 54.7 | 0.802 | 3.124 | 81.5 | 190.1 | --- | 5.629 | -1.36 | 0.239 | 56.3 | 228.9 | -3.3 | 0.276 |
| 4-2700 | 4-3980 | 0.760 | 22.8 | 10.6 | 0.70 | 1.299 | 55.2 | 0.800 | 3.143 | 80.3 | 190.4 | --- | 5.656 | -1.37 | 0.242 | 55.8 | 229.7 | -3.3 | 0.277 |
| 4-2700 | 4-4000 | 0.751 | 23.4 | 10.9 | 0.74 | 1.300 | 55.8 | 0.798 | 3.161 | 79.1 | 190.8 | --- | 5.684 | -1.38 | 0.245 | 55.3 | 230.6 | -3.4 | 0.277 |
| 4-2700 | 4-4020 | 0.742 | 24.0 | 11.2 | 0.78 | 1.300 | 56.3 | 0.796 | 3.180 | 77.8 | 191.2 | --- | 5.711 | -1.40 | 0.248 | 54.9 | 231.4 | -3.4 | 0.277 |
| 4-2700 | 4-4040 | 0.733 | 24.6 | 11.5 | 0.83 | 1.301 | 56.9 | 0.794 | 3.199 | 76.6 | 191.5 | --- | 5.739 | -1.42 | 0.251 | 54.4 | 232.3 | -3.5 | 0.278 |
| 4-2700 | 4-4060 | 0.724 | 25.2 | 11.9 | 0.87 | 1.302 | 57.4 | 0.792 | 3.217 | 75.4 | 191.9 | --- | 5.767 | -1.44 | 0.254 | 54.0 | 233.3 | -3.5 | 0.278 |
| 4-2700 | 4-4080 | 0.715 | 25.8 | 12.2 | 0.91 | 1.302 | 58.0 | 0.791 | 3.236 | 74.2 | 192.2 | --- | 5.795 | -1.46 | 0.256 | 53.6 | 234.2 | -3.6 | 0.278 |
| 4-2700 | 4-4100 | 0.706 | 26.4 | 12.5 | 0.96 | 1.303 | 58.5 | 0.789 | 3.255 | 72.9 | 192.6 | --- | 5.823 | -1.48 | 0.259 | 53.2 | 235.2 | -3.6 | 0.279 |
| 4-2700 | 4-4120 | 0.697 | 27.0 | 12.9 | 1.01 | 1.304 | 59.1 | 0.787 | 3.274 | 71.7 | 192.9 | --- | 5.851 | -1.50 | 0.262 | 52.9 | 236.1 | -3.7 | 0.279 |
| 4-2700 | 4-4140 | 0.688 | 27.7 | 13.2 | 1.06 | 1.304 | 59.6 | 0.786 | 3.292 | 70.5 | 193.3 | --- | 5.879 | -1.53 | 0.264 | 52.5 | 237.1 | -3.7 | 0.279 |
| 4-2700 | 4-4160 | 0.679 | 28.3 | 13.6 | 1.11 | 1.305 | 60.1 | 0.784 | 3.311 | 69.3 | 193.6 | --- | 5.907 | -1.56 | 0.267 | 52.2 | 238.1 | -3.8 | 0.280 |
| 4-2700 | 4-4180 | 0.670 | 29.0 | 14.0 | 1.16 | 1.306 | 60.7 | 0.783 | 3.329 | 68.0 | 193.9 | --- | 5.936 | -1.59 | 0.269 | 51.9 | 239.1 | -3.8 | 0.280 |
| 4-2700 | 4-4200 | 0.661 | 29.6 | 14.3 | 1.21 | 1.306 | 61.2 | 0.781 | 3.348 | 66.8 | 194.3 | --- | 5.964 | -1.62 | 0.271 | 51.6 | 240.2 | -3.9 | 0.281 |
| 4-2700 | 4-4220 | 0.653 | 30.3 | 14.7 | 1.27 | 1.307 | 61.8 | 0.780 | 3.367 | 65.6 | 194.6 | --- | 5.992 | -1.65 | 0.274 | 51.3 | 241.2 | -3.9 | 0.281 |
| 4-2700 | 4-4240 | 0.644 | 31.0 | 15.1 | 1.33 | 1.308 | 62.3 | 0.778 | 3.385 | 64.4 | 194.9 | --- | 6.020 | -1.69 | 0.276 | 51.0 | 242.3 | -4.0 | 0.281 |
| 4-2700 | 4-4260 | 0.635 | 31.7 | 15.5 | 1.39 | 1.308 | 62.8 | 0.777 | 3.404 | 63.1 | 195.3 | --- | 6.049 | -1.73 | 0.278 | 50.7 | 243.3 | -4.1 | 0.282 |
| 4-2700 | 4-4280 | 0.627 | 32.4 | 16.0 | 1.46 | 1.309 | 63.4 | 0.776 | 3.422 | 61.9 | 195.6 | --- | 6.077 | -1.78 | 0.281 | 50.5 | 244.4 | -4.1 | 0.282 |
| 4-2700 | 4-4300 | 0.618 | 33.1 | 16.4 | 1.52 | 1.309 | 63.9 | 0.775 | 3.440 | 60.7 | 195.9 | --- | 6.105 | -1.82 | 0.283 | 50.2 | 245.5 | -4.2 | 0.282 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2900 | 4-3300 | 0.884 | 29.8 | 13.6 | 1.08 | 1.413 | 127.5 | 1.00788 | 982 | 285.4 | 498.0 | 0.636 | --- | -2.08 | 0.637 | 159.5 | 275.7 | -3.8 | 0.621 |
| 4-2900 | 4-3320 | 0.853 | 29.5 | 13.4 | 0.97 | 1.394 | 126.5 | 0.97324 | 386 | 285.9 | 500.3 | 0.647 | --- | -1.99 | 0.594 | 158.0 | 275.8 | -3.8 | 0.579 |
| 4-2900 | 4-3340 | 0.827 | 29.3 | 13.2 | 0.87 | 1.378 | 125.6 | 0.94411 | 755 | 286.4 | 502.5 | 0.656 | --- | -1.90 | 0.556 | 156.4 | 275.8 | -3.8 | 0.540 |
| 4-2900 | 4-3360 | 0.804 | 29.1 | 13.1 | 0.78 | 1.365 | 124.8 | 0.919 | 8.171 | 286.8 | 504.6 | 0.665 | --- | -1.83 | 0.520 | 154.7 | 275.7 | -3.9 | 0.505 |
| 4-2900 | 4-3380 | 0.784 | 29.0 | 12.9 | 0.69 | 1.353 | 124.1 | 0.896 | 6.489 | 287.2 | 506.8 | 0.672 | --- | -1.76 | 0.488 | 153.0 | 275.5 | -3.9 | 0.473 |
| 4-2900 | 4-3400 | 0.767 | 28.8 | 12.8 | 0.61 | 1.343 | 123.5 | 0.877 | 5.519 | 287.5 | 508.8 | 0.679 | --- | -1.70 | 0.459 | 151.2 | 275.3 | -3.9 | 0.444 |
| 4-2900 | 4-3420 | 0.752 | 28.7 | 12.6 | 0.53 | 1.334 | 123.0 | 0.860 | 4.893 | 287.8 | 510.8 | 0.684 | --- | -1.64 | 0.433 | 149.3 | 274.9 | -3.9 | 0.418 |
| 4-2900 | 4-3440 | 0.739 | 28.6 | 12.5 | 0.46 | 1.327 | 122.5 | 0.846 | 4.459 | 288.0 | 512.7 | 0.689 | --- | -1.59 | 0.408 | 147.3 | 274.4 | -3.9 | 0.394 |
| 4-2900 | 4-3460 | 0.728 | 28.6 | 12.4 | 0.40 | 1.320 | 122.2 | 0.833 | 4.143 | 288.1 | 514.6 | 0.692 | --- | -1.55 | 0.386 | 145.3 | 273.8 | -4.0 | 0.373 |
| 4-2900 | 4-3480 | 0.719 | 28.6 | 12.3 | 0.33 | 1.315 | 121.9 | 0.822 | 3.904 | 288.2 | 516.4 | 0.695 | --- | -1.50 | 0.366 | 143.1 | 273.1 | -4.0 | 0.353 |
| 4-2900 | 4-3500 | 0.712 | 28.6 | 12.2 | 0.28 | 1.310 | 121.6 | 0.813 | 3.719 | 288.2 | 518.1 | 0.697 | --- | -1.47 | 0.347 | 140.9 | 272.3 | -4.0 | 0.335 |
| 4-2900 | 4-3520 | 0.706 | 28.7 | 12.1 | 0.22 | 1.306 | 121.4 | 0.804 | 3.573 | 288.2 | 519.8 | 0.699 | --- | -1.43 | 0.330 | 138.6 | 271.3 | -4.0 | 0.320 |
| 4-2900 | 4-3540 | 0.701 | 28.7 | 12.1 | 0.17 | 1.302 | 121.3 | 0.798 | 3.456 | 288.1 | 521.4 | 0.699 | --- | -1.40 | 0.315 | 136.2 | 270.3 | -4.1 | 0.305 |
| 4-2900 | 4-3560 | 0.698 | 28.9 | 12.0 | 0.12 | 1.299 | 121.2 | 0.792 | 3.362 | 287.9 | 522.9 | 0.700 | --- | -1.37 | 0.301 | 133.8 | 269.2 | -4.1 | 0.292 |
| 4-2900 | 4-3580 | 0.695 | 29.0 | 12.0 | 0.07 | 1.296 | 121.2 | 0.787 | 3.284 | 287.7 | 524.4 | 0.699 | --- | -1.34 | 0.288 | 131.2 | 268.0 | -4.1 | 0.281 |
| 4-2900 | 4-3600 | 0.694 | 29.2 | 12.0 | 0.02 | 1.294 | 121.2 | 0.783 | 3.220 | 287.5 | 525.8 | 0.698 | --- | -1.32 | 0.276 | 128.6 | 266.7 | -4.1 | 0.271 |
| 4-2900 | 4-3620 | 0.693 | 29.4 | 12.0 | -0.02 | 1.292 | 121.2 | 0.780 | 3.167 | 287.2 | 527.2 | 0.696 | --- | -1.29 | 0.265 | 125.9 | 265.3 | -4.1 | 0.262 |
| 4-2900 | 4-3640 | 0.694 | 29.6 | 12.0 | -0.06 | 1.290 | 121.3 | 0.778 | 3.123 | 286.8 | 528.5 | 0.694 | --- | -1.27 | 0.256 | 123.1 | 263.9 | -4.1 | 0.255 |
| 4-2900 | 4-3660 | 0.695 | 29.8 | 12.0 | -0.11 | 1.289 | 121.4 | 0.776 | 3.086 | 286.4 | 529.7 | 0.692 | --- | -1.25 | 0.247 | 120.3 | 262.5 | -4.1 | 0.248 |
| 4-2900 | 4-3680 | 0.697 | 30.1 | 12.0 | -0.15 | 1.287 | 121.6 | 0.775 | 3.056 | 285.9 | 530.9 | 0.688 | --- | -1.24 | 0.240 | 117.5 | 261.1 | -4.1 | 0.243 |
| 4-2900 | 4-3700 | 0.699 | 30.4 | 12.1 | -0.19 | 1.286 | 121.8 | 0.774 | 3.031 | 285.4 | 532.1 | 0.685 | --- | -1.22 | 0.233 | 114.6 | 259.6 | -4.1 | 0.238 |
| 4-2900 | 4-3720 | 0.702 | 30.7 | 12.1 | -0.22 | 1.285 | 122.0 | 0.774 | 3.011 | 284.8 | 533.2 | 0.681 | --- | -1.21 | 0.227 | 111.7 | 258.2 | -4.1 | 0.235 |
| 4-2900 | 4-3740 | 0.706 | 31.1 | 12.2 | -0.26 | 1.285 | 122.2 | 0.774 | 2.995 | 284.2 | 534.2 | 0.676 | --- | -1.19 | 0.221 | 108.7 | 256.9 | -4.1 | 0.232 |
| 4-2900 | 4-3760 | 0.711 | 31.4 | 12.3 | -0.30 | 1.284 | 122.5 | 0.775 | 2.981 | 283.6 | 535.2 | 0.671 | --- | -1.18 | 0.217 | 105.8 | 255.6 | -4.0 | 0.230 |
| 4-2900 | 4-3780 | 0.715 | 31.8 | 12.3 | -0.33 | 1.284 | 122.8 | 0.776 | 2.971 | 282.9 | 536.2 | 0.666 | --- | -1.17 | 0.213 | 102.9 | 254.4 | -4.0 | 0.229 |
| 4-2900 | 4-3800 | 0.721 | 32.2 | 12.4 | -0.37 | 1.283 | 123.1 | 0.777 | 2.964 | 282.2 | 537.1 | 0.660 | --- | -1.16 | 0.210 | 100.0 | 253.2 | -4.0 | 0.229 |
| 4-2900 | 4-3820 | 0.727 | 32.6 | 12.5 | -0.40 | 1.283 | 123.5 | 0.779 | 2.958 | 281.4 | 538.0 | 0.654 | --- | -1.15 | 0.207 | 97.1 | 252.2 | -4.0 | 0.229 |
| 4-2900 | 4-3840 | 0.733 | 33.0 | 12.6 | -0.43 | 1.283 | 123.8 | 0.781 | 2.955 | 280.6 | 538.8 | 0.648 | --- | -1.15 | 0.205 | 94.2 | 251.2 | -3.9 | 0.229 |
| 4-2900 | 4-3860 | 0.740 | 33.5 | 12.7 | -0.47 | 1.283 | 124.2 | 0.783 | 2.953 | 279.8 | 539.6 | 0.641 | --- | -1.14 | 0.203 | 91.4 | 250.4 | -3.9 | 0.230 |
| 4-2900 | 4-3880 | 0.747 | 33.9 | 12.9 | -0.50 | 1.283 | 124.7 | 0.785 | 2.953 | 279.0 | 540.4 | 0.633 | 5.272 | -1.13 | 0.202 | 88.7 | 249.7 | -3.9 | 0.232 |
| 4-2900 | 4-3900 | 0.755 | 34.4 | 13.0 | -0.53 | 1.283 | 125.1 | 0.788 | 2.954 | 278.1 | 541.1 | 0.626 | 5.282 | -1.13 | 0.201 | 86.0 | 249.1 | -3.8 | 0.234 |
| 4-2900 | 4-3920 | 0.763 | 34.9 | 13.1 | -0.56 | 1.283 | 125.6 | 0.791 | 2.957 | 277.1 | 541.8 | 0.618 | 5.295 | -1.13 | 0.200 | 83.4 | 248.6 | -3.8 | 0.236 |
| 4-2900 | 4-3940 | 0.771 | 35.4 | 13.2 | -0.59 | 1.283 | 126.0 | 0.794 | 2.960 | 276.2 | 542.4 | 0.610 | 5.311 | -1.12 | 0.200 | 80.8 | 248.2 | -3.8 | 0.239 |
| 4-2900 | 4-3960 | 0.780 | 35.9 | 13.4 | -0.63 | 1.283 | 126.5 | 0.797 | 2.965 | 275.2 | 543.0 | 0.601 | 5.328 | -1.12 | 0.200 | 78.3 | 247.9 | -3.8 | 0.241 |
| 4-2900 | 4-3980 | 0.789 | 36.4 | 13.5 | -0.66 | 1.284 | 127.0 | 0.801 | 2.970 | 274.2 | 543.6 | 0.592 | 5.348 | -1.12 | 0.201 | 75.9 | 247.7 | -3.7 | 0.244 |
| 4-2900 | 4-4000 | 0.798 | 36.9 | 13.7 | -0.69 | 1.284 | 127.6 | 0.804 | 2.977 | 273.1 | 544.2 | 0.583 | 5.370 | -1.12 | 0.201 | 73.6 | 247.6 | -3.7 | 0.248 |
| 4-2900 | 4-4020 | 0.808 | 37.5 | 13.8 | -0.72 | 1.284 | 128.1 | 0.808 | 2.984 | 272.1 | 544.7 | 0.574 | 5.393 | -1.12 | 0.202 | 71.3 | 247.7 | -3.7 | 0.251 |
| 4-2900 | 4-4040 | 0.818 | 38.0 | 14.0 | -0.75 | 1.285 | 128.7 | 0.811 | 2.991 | 271.0 | 545.2 | 0.564 | 5.419 | -1.12 | 0.203 | 69.1 | 247.8 | -3.7 | 0.255 |
| 4-2900 | 4-4060 | 0.828 | 38.5 | 14.1 | -0.78 | 1.285 | 129.2 | 0.815 | 3.000 | 269.9 | 545.7 | 0.554 | 5.445 | -1.13 | 0.204 | 67.0 | 248.0 | -3.7 | 0.259 |
| 4-2900 | 4-4080 | 0.838 | 39.1 | 14.3 | -0.81 | 1.285 | 129.8 | 0.819 | 3.009 | 268.7 | 546.1 | 0.544 | 5.473 | -1.13 | 0.206 | 64.9 | 248.2 | -3.7 | 0.262 |
| 4-2900 | 4-4100 | 0.849 | 39.7 | 14.4 | -0.84 | 1.286 | 130.4 | 0.823 | 3.018 | 267.6 | 546.5 | 0.533 | 5.503 | -1.14 | 0.207 | 62.9 | 248.6 | -3.6 | 0.266 |
| 4-2900 | 4-4120 | 0.860 | 40.2 | 14.6 | -0.88 | 1.286 | 131.1 | 0.827 | 3.028 | 266.4 | 546.9 | 0.523 | 5.533 | -1.14 | 0.209 | 61.0 | 249.0 | -3.6 | 0.271 |
| 4-2900 | 4-4140 | 0.872 | 40.8 | 14.8 | -0.91 | 1.287 | 131.7 | 0.832 | 3.038 | 265.2 | 547.2 | 0.512 | 5.565 | -1.15 | 0.211 | 59.1 | 249.5 | -3.6 | 0.275 |
| 4-2900 | 4-4160 | 0.883 | 41.4 | 14.9 | -0.94 | 1.287 | 132.4 | 0.836 | 3.049 | 263.9 | 547.6 | 0.500 | 5.598 | -1.15 | 0.212 | 57.3 | 250.1 | -3.6 | 0.279 |
| 4-2900 | 4-4180 | 0.895 | 42.0 | 15.1 | -0.97 | 1.288 | 133.0 | 0.840 | 3.060 | 262.7 | 547.9 | 0.489 | 5.632 | -1.16 | 0.214 | 55.5 | 250.7 | -3.6 | 0.283 |
| 4-2900 | 4-4200 | 0.907 | 42.6 | 15.3 | -1.01 | 1.288 | 133.7 | 0.845 | 3.072 | 261.4 | 548.2 | 0.477 | 5.666 | -1.17 | 0.216 | 53.8 | 251.4 | -3.6 | 0.288 |
| 4-2900 | 4-4220 | 0.919 | 43.2 | 15.4 | -1.04 | 1.289 | 134.4 | 0.849 | 3.084 | 260.1 | 548.4 | 0.465 | 5.702 | -1.18 | 0.218 | 52.2 | 252.1 | -3.6 | 0.292 |
| 4-2900 | 4-4240 | 0.932 | 43.8 | 15.6 | -1.07 | 1.289 | 135.1 | 0.854 | 3.096 | 258.8 | 548.7 | 0.453 | 5.738 | -1.19 | 0.221 | 50.6 | 252.9 | -3.6 | 0.297 |
| 4-2900 | 4-4260 | 0.945 | 44.4 | 15.8 | -1.11 | 1.290 | 135.8 | 0.858 | 3.108 | 257.4 | 548.9 | 0.441 | 5.775 | -1.20 | 0.223 | 49.0 | 253.7 | -3.6 | 0.301 |
| 4-2900 | 4-4280 | 0.958 | 45.0 | 16.0 | -1.14 | 1.290 | 136.6 | 0.863 | 3.121 | 256.1 | 549.1 | 0.429 | 5.813 | -1.22 | 0.225 | 47.5 | 254.6 | -3.6 | 0.306 |
| 4-2900 | 4-4300 | 0.971 | 45.7 | 16.1 | -1.18 | 1.291 | 137.3 | 0.867 | 3.134 | 254.7 | 549.2 | 0.416 | 5.851 | -1.23 | 0.227 | 46.0 | 255.5 | -3.6 | 0.310 |
| 4-2900 | 4-4320 | 0.984 | 46.3 | 16.3 | -1.22 | 1.291 | 138.1 | 0.872 | 3.147 | 253.3 | 549.4 | 0.404 | 5.890 | -1.25 | 0.229 | 44.6 | 256.5 | -3.6 | 0.315 |
| 4-2900 | 4-4340 | 0.998 | 46.9 | 16.5 | -1.25 | 1.292 | 138.9 | 0.876 | 3.160 | 251.9 | 549.5 | 0.391 | 5.929 | -1.27 | 0.232 | 43.2 | 257.5 | -3.6 | 0.319 |
| 4-2900 | 4-4360 | 1.012 | 47.6 | 16.6 | -1.29 | 1.292 | 139.6 | 0.881 | 3.174 | 250.5 | 549.6 | 0.378 | 5.969 | -1.28 | 0.234 | 41.8 | 258.6 | -3.6 | 0.324 |
| 4-2900 | 4-4380 | 1.025 | 48.2 | 16.8 | -1.33 | 1.293 | 140.4 | 0.885 | 3.187 | 249.0 | 549.7 | 0.365 | 6.009 | -1.30 | 0.236 | 40.5 | 259.6 | -3.6 | 0.329 |
| 4-2900 | 4-4400 | 1.040 | 48.9 | 17.0 | -1.37 | 1.293 | 141.3 | 0.890 | 3.201 | 247.6 | 549.8 | 0.352 | 6.050 | -1.33 | 0.238 | 39.2 | 260.7 | -3.6 | 0.334 |
| 4-2900 | 4-4420 | 1.054 | 49.5 | 17.1 | -1.42 | 1.294 | 142.1 | 0.895 | 3.215 | 246.1 | 549.8 | 0.339 | 6.091 | -1.35 | 0.241 | 37.9 | 261.9 | -3.6 | 0.338 |
| 4-2900 | 4-4440 | 1.068 | 50.2 | 17.3 | -1.46 | 1.294 | 142.9 | 0.899 | 3.229 | 244.6 | 549.8 | 0.326 | 6.133 | -1.37 | 0.243 | 36.6 | 263.0 | -3.6 | 0.343 |
| 4-2900 | 4-4460 | 1.083 | 50.8 | 17.5 | -1.51 | 1.295 | 143.8 | 0.904 | 3.244 | 243.1 | 549.8 | 0.313 | 6.175 | -1.40 | 0.245 | 35.4 | 264.2 | -3.6 | 0.348 |
| 4-2900 | 4-4480 | 1.098 | 51.5 | 17.7 | -1.55 | 1.295 | 144.6 | 0.908 | 3.258 | 241.5 | 549.8 | 0.299 | 6.217 | -1.43 | 0.248 | 34.2 | 265.5 | -3.6 | 0.353 |
| 4-2900 | 4-4500 | 1.113 | 52.2 | 17.8 | -1.60 | 1.296 | 145.5 | 0.913 | 3.273 | 240.0 | 549.8 | 0.286 | 6.259 | -1.46 | 0.250 | 33.0 | 266.7 | -3.6 | 0.357 |
| 4-2910 | 4-3310 | 0.831 | 35.2 | 16.1 | 1.40 | 1.414 | 124.3 | 1.01448 | 207 | 291.9 | 495.7 | 0.691 | --- | -2.46 | 0.644 | 158.8 | 277.5 | -4.0 | 0.622 |
| 4-2910 | 4-3330 | 0.800 | 34.9 | 15.8 | 1.23 | 1.396 | 123.3 | 0.97831 | 367 | 292.5 | 498.0 | 0.702 | --- | -2.30 | 0.602 | 157.3 | 277.7 | -4.0 | 0.579 |
| 4-2910 | 4-3350 | 0.773 | 34.6 | 15.5 | 1.08 | 1.380 | 122.4 | 0.94613 | 106 | 293.0 | 500.3 | 0.711 | --- | -2.17 | 0.563 | 155.7 | 277.7 | -4.0 | 0.540 |
| 4-2910 | 4-3370 | 0.750 | 34.4 | 15.3 | 0.94 | 1.366 | 121.6 | 0.918 | 8.777 | 293.5 | 502.6 | 0.720 | --- | -2.05 | 0.528 | 154.1 | 277.7 | -4.0 | 0.505 |
| 4-2910 | 4-3390 | 0.730 | 34.1 | 15.1 | 0.82 | 1.354 | 120.9 | 0.894 | 6.851 | 294.0 | 504.7 | 0.727 | --- | -1.94 | 0.496 | 152.4 | 277.6 | -4.0 | 0.473 |
| 4-2910 | 4-3410 | 0.712 | 34.0 | 14.8 | 0.71 | 1.344 | 120.3 | 0.873 | 5.769 | 294.4 | 506.9 | 0.734 | --- | -1.85 | 0.468 | 150.6 | 277.4 | -4.0 | 0.444 |
| 4-2910 | 4-3430 | 0.697 | 33.8 | 14.7 | 0.61 | 1.335 | 119.8 | 0.855 | 5.082 | 294.7 | 508.9 | 0.739 | --- | -1.77 | 0.441 | 148.7 | 277.1 | -4.0 | 0.418 |
| 4-2910 | 4-3450 | 0.684 | 33.7 | 14.5 | 0.52 | 1.328 | 119.3 | 0.839 | 4.610 | 295.0 | 510.9 | 0.744 | --- | -1.69 | 0.417 | 146.8 | 276.7 | -4.0 | 0.394 |
| 4-2910 | 4-3470 | 0.673 | 33.6 | 14.3 | 0.44 | 1.321 | 118.9 | 0.825 | 4.268 | 295.2 | 512.8 | 0.748 | --- | -1.63 | 0.395 | 144.8 | 276.1 | -4.0 | 0.372 |
| 4-2910 | 4-3490 | 0.664 | 33.6 | 14.2 | 0.36 | 1.316 | 118.6 | 0.813 | 4.012 | 295.3 | 514.7 | 0.751 | --- | -1.57 | 0.375 | 142.7 | 275.5 | -4.1 | 0.352 |
| 4-2910 | 4-3510 | 0.658 | 33.6 | 14.0 | 0.29 | 1.311 | 118.3 | 0.802 | 3.814 | 295.4 | 516.5 | 0.753 | --- | -1.51 | 0.356 | 140.5 | 274.8 | -4.1 | 0.334 |
| 4-2910 | 4-3530 | 0.650 | 33.6 | 13.9 | 0.23 | 1.306 | 118.1 | 0.794 | 3.658 | 295.4 | 518.2 | 0.755 | --- | -1.46 | 0.340 | 138.2 | 273.9 | -4.1 | 0.318 |
| 4-2910 | 4-3550 | 0.644 | 33.7 | 13.8 | 0.16 | 1.303 | 118.0 | 0.786 | 3.533 | 295.4 | 519.9 | 0.756 | --- | -1.42 | 0.324 | 135.9 | 273.0 | -4.1 | 0.303 |
| 4-2910 | 4-3570 | 0.640 | 33.8 | 13.8 | 0.11 | 1.299 | 117.9 | 0.779 | 3.432 | 295.3 | 521.5 | 0.757 | --- | -1.38 | 0.310 | 133.5 | 271.9 | -4.1 | 0.290 |
| 4-2910 | 4-3590 | 0.637 | 33.9 | 13.7 | 0.05 | 1.297 | 117.8 | 0.774 | 3.349 | 295.2 | 523.0 | 0.757 | --- | -1.34 | 0.297 | 131.1 | 270.8 | -4.1 | 0.278 |
| 4-2910 | 4-3610 | 0.635 | 34.1 | 13.7 | 0.00 | 1.294 | 117.8 | 0.769 | 3.281 | 295.0 | 524.5 | 0.756 | --- | -1.31 | 0.286 | 128.5 | 269.5 | -4.2 | 0.268 |
| 4-2910 | 4-3630 | 0.634 | 34.2 | 13.6 | -0.05 | 1.292 | 117.8 | 0.766 | 3.224 | 294.7 | 525.9 | 0.755 | --- | -1.27 | 0.275 | 126.0 | 268.2 | -4.2 | 0.258 |
| 4-2910 | 4-3650 | 0.634 | 34.5 | 13.6 | -0.10 | 1.290 | 117.8 | 0.763 | 3.177 | 294.4 | 527.3 | 0.754 | --- | -1.25 | 0.266 | 123.3 | 266.9 | -4.2 | 0.250 |
| 4-2910 | 4-3670 | 0.635 | 34.7 | 13.6 | -0.14 | 1.289 | 117.9 | 0.760 | 3.138 | 294.0 | 528.6 | 0.752 | --- | -1.22 | 0.257 | 120.7 | 265.5 | -4.2 | 0.243 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2910 | 4-3690 | 0.636 | 35.0 | 13.6 | -0.18 | 1.288 | 118.1 | 0.759 | 3.106 | 293.6 | 529.8 | 0.749 | --- | -1.20 | 0.250 | 117.9 | 264.1 | -4.2 | 0.237 |
| 4-2910 | 4-3710 | 0.638 | 35.3 | 13.6 | -0.22 | 1.287 | 118.2 | 0.758 | 3.079 | 293.2 | 531.0 | 0.746 | --- | -1.17 | 0.243 | 115.2 | 262.7 | -4.2 | 0.233 |
| 4-2910 | 4-3730 | 0.640 | 35.6 | 13.7 | -0.26 | 1.286 | 118.4 | 0.757 | 3.057 | 292.7 | 532.2 | 0.743 | --- | -1.15 | 0.237 | 112.4 | 261.3 | -4.1 | 0.229 |
| 4-2910 | 4-3750 | 0.643 | 35.9 | 13.7 | -0.30 | 1.285 | 118.6 | 0.757 | 3.039 | 292.1 | 533.3 | 0.739 | --- | -1.13 | 0.232 | 109.7 | 259.9 | -4.1 | 0.225 |
| 4-2910 | 4-3770 | 0.647 | 36.3 | 13.8 | -0.34 | 1.284 | 118.9 | 0.757 | 3.024 | 291.5 | 534.3 | 0.735 | --- | -1.12 | 0.227 | 106.9 | 258.5 | -4.1 | 0.223 |
| 4-2910 | 4-3790 | 0.651 | 36.7 | 13.9 | -0.37 | 1.284 | 119.1 | 0.758 | 3.012 | 290.9 | 535.3 | 0.730 | --- | -1.10 | 0.223 | 104.1 | 257.3 | -4.1 | 0.221 |
| 4-2910 | 4-3810 | 0.658 | 37.1 | 13.9 | -0.41 | 1.283 | 119.4 | 0.759 | 3.004 | 290.3 | 536.3 | 0.725 | --- | -1.09 | 0.220 | 101.4 | 256.1 | -4.0 | 0.220 |
| 4-2910 | 4-3830 | 0.661 | 37.5 | 14.0 | -0.44 | 1.283 | 119.7 | 0.760 | 2.997 | 289.6 | 537.2 | 0.720 | --- | -1.07 | 0.217 | 98.7 | 255.0 | -4.0 | 0.220 |
| 4-2910 | 4-3850 | 0.667 | 38.0 | 14.1 | -0.47 | 1.283 | 120.1 | 0.761 | 2.992 | 288.8 | 538.1 | 0.714 | --- | -1.06 | 0.214 | 96.0 | 253.9 | -4.0 | 0.220 |
| 4-2910 | 4-3870 | 0.673 | 38.4 | 14.2 | -0.50 | 1.283 | 120.4 | 0.763 | 2.990 | 288.0 | 539.0 | 0.708 | --- | -1.05 | 0.212 | 93.4 | 253.0 | -3.9 | 0.221 |
| 4-2910 | 4-3890 | 0.679 | 38.9 | 14.3 | -0.54 | 1.283 | 120.8 | 0.765 | 2.989 | 287.2 | 539.8 | 0.702 | --- | -1.04 | 0.211 | 90.8 | 252.2 | -3.9 | 0.222 |
| 4-2910 | 4-3910 | 0.686 | 39.4 | 14.4 | -0.57 | 1.283 | 121.2 | 0.767 | 2.989 | 286.4 | 540.5 | 0.695 | 5.283 | -1.03 | 0.210 | 88.3 | 251.5 | -3.9 | 0.223 |
| 4-2910 | 4-3930 | 0.693 | 39.9 | 14.5 | -0.60 | 1.283 | 121.6 | 0.770 | 2.991 | 285.5 | 541.3 | 0.688 | 5.293 | -1.02 | 0.209 | 85.8 | 250.9 | -3.8 | 0.225 |
| 4-2910 | 4-3950 | 0.701 | 40.4 | 14.7 | -0.62 | 1.283 | 122.0 | 0.773 | 2.994 | 284.6 | 542.0 | 0.681 | 5.306 | -1.02 | 0.209 | 83.4 | 250.4 | -3.8 | 0.227 |
| 4-2910 | 4-3970 | 0.708 | 40.9 | 14.8 | -0.65 | 1.283 | 122.5 | 0.775 | 2.998 | 283.7 | 542.6 | 0.673 | 5.322 | -1.01 | 0.209 | 81.0 | 250.0 | -3.8 | 0.229 |
| 4-2910 | 4-3990 | 0.717 | 41.4 | 14.9 | -0.68 | 1.283 | 123.0 | 0.778 | 3.002 | 282.7 | 543.3 | 0.665 | 5.339 | -1.01 | 0.209 | 78.7 | 249.8 | -3.8 | 0.232 |
| 4-2910 | 4-4010 | 0.725 | 42.0 | 15.1 | -0.71 | 1.284 | 123.4 | 0.782 | 3.008 | 281.7 | 543.9 | 0.657 | 5.359 | -1.00 | 0.209 | 76.5 | 249.6 | -3.7 | 0.235 |
| 4-2910 | 4-4030 | 0.734 | 42.5 | 15.2 | -0.74 | 1.284 | 123.9 | 0.785 | 3.014 | 280.7 | 544.5 | 0.649 | 5.380 | -1.00 | 0.210 | 74.4 | 249.5 | -3.7 | 0.238 |
| 4-2910 | 4-4050 | 0.743 | 43.1 | 15.4 | -0.77 | 1.284 | 124.5 | 0.788 | 3.022 | 279.7 | 545.0 | 0.640 | 5.403 | -1.00 | 0.211 | 72.3 | 249.5 | -3.7 | 0.241 |
| 4-2910 | 4-4070 | 0.752 | 43.6 | 15.5 | -0.79 | 1.284 | 125.0 | 0.792 | 3.029 | 278.6 | 545.5 | 0.631 | 5.428 | -0.99 | 0.212 | 70.2 | 249.6 | -3.7 | 0.245 |
| 4-2910 | 4-4090 | 0.762 | 44.2 | 15.7 | -0.82 | 1.285 | 125.5 | 0.795 | 3.038 | 277.5 | 546.0 | 0.621 | 5.454 | -0.99 | 0.213 | 68.3 | 249.8 | -3.7 | 0.248 |
| 4-2910 | 4-4110 | 0.772 | 44.8 | 15.8 | -0.85 | 1.285 | 126.1 | 0.799 | 3.047 | 276.4 | 546.5 | 0.612 | 5.482 | -0.99 | 0.214 | 66.4 | 250.1 | -3.7 | 0.252 |
| 4-2910 | 4-4130 | 0.782 | 45.4 | 16.0 | -0.88 | 1.286 | 126.7 | 0.803 | 3.056 | 275.3 | 546.9 | 0.602 | 5.510 | -0.99 | 0.216 | 64.5 | 250.4 | -3.6 | 0.256 |
| 4-2910 | 4-4150 | 0.793 | 46.0 | 16.1 | -0.90 | 1.286 | 127.3 | 0.807 | 3.066 | 274.1 | 547.3 | 0.592 | 5.540 | -0.99 | 0.217 | 62.7 | 250.8 | -3.6 | 0.260 |
| 4-2910 | 4-4170 | 0.803 | 46.6 | 16.3 | -0.93 | 1.286 | 127.9 | 0.811 | 3.076 | 273.0 | 547.7 | 0.581 | 5.571 | -1.00 | 0.219 | 61.0 | 251.3 | -3.6 | 0.263 |
| 4-2910 | 4-4190 | 0.814 | 47.2 | 16.4 | -0.96 | 1.287 | 128.5 | 0.815 | 3.087 | 271.8 | 548.1 | 0.570 | 5.603 | -1.00 | 0.220 | 59.3 | 251.8 | -3.6 | 0.267 |
| 4-2910 | 4-4210 | 0.825 | 47.8 | 16.6 | -0.98 | 1.287 | 129.1 | 0.819 | 3.098 | 270.5 | 548.4 | 0.560 | 5.636 | -1.00 | 0.222 | 57.7 | 252.4 | -3.6 | 0.272 |
| 4-2910 | 4-4230 | 0.837 | 48.4 | 16.7 | -1.01 | 1.288 | 129.8 | 0.824 | 3.109 | 269.3 | 548.7 | 0.548 | 5.670 | -1.01 | 0.224 | 56.1 | 253.1 | -3.6 | 0.276 |
| 4-2910 | 4-4250 | 0.848 | 49.1 | 16.9 | -1.04 | 1.288 | 130.4 | 0.828 | 3.121 | 268.0 | 549.0 | 0.537 | 5.704 | -1.01 | 0.226 | 54.6 | 253.8 | -3.6 | 0.280 |
| 4-2910 | 4-4270 | 0.860 | 49.7 | 17.0 | -1.07 | 1.289 | 131.1 | 0.832 | 3.133 | 266.8 | 549.3 | 0.526 | 5.740 | -1.02 | 0.228 | 53.1 | 254.6 | -3.6 | 0.284 |
| 4-2910 | 4-4290 | 0.872 | 50.3 | 17.2 | -1.10 | 1.289 | 131.8 | 0.837 | 3.145 | 265.5 | 549.5 | 0.514 | 5.776 | -1.02 | 0.230 | 51.6 | 255.4 | -3.6 | 0.288 |
| 4-2910 | 4-4310 | 0.885 | 51.0 | 17.4 | -1.13 | 1.290 | 132.5 | 0.841 | 3.157 | 264.2 | 549.8 | 0.502 | 5.812 | -1.03 | 0.232 | 50.2 | 256.2 | -3.6 | 0.293 |
| 4-2910 | 4-4330 | 0.897 | 51.6 | 17.5 | -1.15 | 1.290 | 133.2 | 0.846 | 3.170 | 262.8 | 550.0 | 0.490 | 5.850 | -1.04 | 0.234 | 48.8 | 257.1 | -3.6 | 0.297 |
| 4-2910 | 4-4350 | 0.910 | 52.3 | 17.7 | -1.18 | 1.291 | 133.9 | 0.850 | 3.182 | 261.5 | 550.2 | 0.477 | 5.888 | -1.05 | 0.236 | 47.4 | 258.1 | -3.6 | 0.301 |
| 4-2910 | 4-4370 | 0.923 | 52.9 | 17.8 | -1.21 | 1.291 | 134.6 | 0.855 | 3.196 | 260.1 | 550.3 | 0.465 | 5.926 | -1.06 | 0.238 | 46.1 | 259.1 | -3.6 | 0.306 |
| 4-2910 | 4-4390 | 0.936 | 53.6 | 18.0 | -1.24 | 1.292 | 135.4 | 0.859 | 3.209 | 258.7 | 550.5 | 0.452 | 5.965 | -1.07 | 0.240 | 44.8 | 260.1 | -3.6 | 0.310 |
| 4-2910 | 4-4410 | 0.949 | 54.2 | 18.1 | -1.27 | 1.292 | 136.1 | 0.864 | 3.222 | 257.3 | 550.6 | 0.439 | 6.005 | -1.08 | 0.242 | 43.5 | 261.1 | -3.6 | 0.315 |
| 4-2910 | 4-4430 | 0.963 | 54.9 | 18.3 | -1.31 | 1.293 | 136.9 | 0.868 | 3.236 | 255.9 | 550.7 | 0.426 | 6.045 | -1.09 | 0.245 | 42.3 | 262.2 | -3.6 | 0.319 |
| 4-2910 | 4-4450 | 0.977 | 55.6 | 18.5 | -1.34 | 1.293 | 137.7 | 0.873 | 3.249 | 254.5 | 550.8 | 0.413 | 6.085 | -1.11 | 0.247 | 41.1 | 263.3 | -3.6 | 0.324 |
| 4-2910 | 4-4470 | 0.990 | 56.2 | 18.6 | -1.37 | 1.294 | 138.5 | 0.877 | 3.263 | 253.0 | 550.9 | 0.400 | 6.126 | -1.12 | 0.249 | 39.9 | 264.4 | -3.6 | 0.328 |
| 4-2910 | 4-4490 | 1.004 | 56.9 | 18.8 | -1.41 | 1.294 | 139.3 | 0.882 | 3.277 | 251.5 | 550.9 | 0.387 | 6.167 | -1.14 | 0.251 | 38.7 | 265.6 | -3.6 | 0.333 |
| 4-2910 | 4-4510 | 1.019 | 57.6 | 18.9 | -1.44 | 1.295 | 140.1 | 0.887 | 3.291 | 250.0 | 551.0 | 0.373 | 6.209 | -1.16 | 0.253 | 37.6 | 266.8 | -3.6 | 0.337 |
| 4-2920 | 4-3320 | 0.777 | 39.9 | 19.0 | 2.11 | 1.416 | 121.1 | 1.02 | 135.767 | 298.5 | 493.5 | 0.745 | --- | -3.22 | 0.650 | 158.1 | 279.3 | -4.3 | 0.620 |
| 4-2920 | 4-3340 | 0.746 | 39.6 | 18.5 | 1.77 | 1.397 | 120.1 | 0.98 | 140.258 | 299.2 | 496.0 | 0.755 | --- | -2.90 | 0.607 | 156.6 | 279.5 | -4.2 | 0.577 |
| 4-2920 | 4-3360 | 0.719 | 39.3 | 18.0 | 1.50 | 1.381 | 119.2 | 0.94 | 714.405 | 299.8 | 498.3 | 0.765 | --- | -2.63 | 0.569 | 155.1 | 279.6 | -4.2 | 0.539 |
| 4-2920 | 4-3380 | 0.696 | 39.1 | 17.6 | 1.27 | 1.367 | 118.4 | 0.917 | 9.327 | 300.4 | 500.6 | 0.773 | --- | -2.42 | 0.534 | 153.4 | 279.6 | -4.2 | 0.504 |
| 4-2920 | 4-3400 | 0.675 | 38.8 | 17.2 | 1.07 | 1.355 | 117.7 | 0.891 | 7.173 | 300.9 | 502.9 | 0.780 | --- | -2.24 | 0.503 | 151.7 | 279.5 | -4.2 | 0.472 |
| 4-2920 | 4-3420 | 0.658 | 38.6 | 16.9 | 0.90 | 1.345 | 117.1 | 0.869 | 5.991 | 301.4 | 505.1 | 0.787 | --- | -2.08 | 0.474 | 149.9 | 279.4 | -4.1 | 0.443 |
| 4-2920 | 4-3440 | 0.643 | 38.4 | 16.6 | 0.76 | 1.336 | 116.5 | 0.849 | 5.249 | 301.8 | 507.2 | 0.792 | --- | -1.95 | 0.448 | 148.1 | 279.1 | -4.1 | 0.416 |
| 4-2920 | 4-3460 | 0.629 | 38.3 | 16.3 | 0.63 | 1.329 | 116.1 | 0.832 | 4.743 | 302.1 | 509.2 | 0.797 | --- | -1.83 | 0.424 | 146.2 | 278.7 | -4.1 | 0.392 |
| 4-2920 | 4-3480 | 0.618 | 38.2 | 16.1 | 0.52 | 1.322 | 115.7 | 0.817 | 4.380 | 302.4 | 511.2 | 0.801 | --- | -1.73 | 0.402 | 144.2 | 278.3 | -4.1 | 0.370 |
| 4-2920 | 4-3500 | 0.609 | 38.1 | 15.8 | 0.42 | 1.316 | 115.3 | 0.804 | 4.108 | 302.6 | 513.1 | 0.804 | --- | -1.65 | 0.382 | 142.1 | 277.7 | -4.1 | 0.350 |
| 4-2920 | 4-3520 | 0.601 | 38.1 | 15.6 | 0.32 | 1.311 | 115.0 | 0.793 | 3.899 | 302.7 | 515.0 | 0.807 | --- | -1.57 | 0.364 | 140.0 | 277.0 | -4.1 | 0.332 |
| 4-2920 | 4-3540 | 0.594 | 38.1 | 15.5 | 0.24 | 1.307 | 114.8 | 0.783 | 3.734 | 302.8 | 516.8 | 0.809 | --- | -1.50 | 0.347 | 137.8 | 276.2 | -4.2 | 0.316 |
| 4-2920 | 4-3560 | 0.588 | 38.1 | 15.3 | 0.17 | 1.303 | 114.6 | 0.775 | 3.603 | 302.8 | 518.5 | 0.810 | --- | -1.44 | 0.332 | 135.6 | 275.3 | -4.2 | 0.301 |
| 4-2920 | 4-3580 | 0.584 | 38.2 | 15.2 | 0.10 | 1.300 | 114.5 | 0.768 | 3.496 | 302.8 | 520.1 | 0.811 | --- | -1.38 | 0.318 | 133.2 | 274.4 | -4.2 | 0.287 |
| 4-2920 | 4-3600 | 0.581 | 38.3 | 15.1 | 0.03 | 1.297 | 114.4 | 0.762 | 3.409 | 302.7 | 521.7 | 0.811 | --- | -1.33 | 0.306 | 130.8 | 273.3 | -4.2 | 0.275 |
| 4-2920 | 4-3620 | 0.578 | 38.5 | 15.0 | -0.03 | 1.295 | 114.4 | 0.757 | 3.337 | 302.6 | 523.3 | 0.811 | --- | -1.28 | 0.294 | 128.4 | 272.1 | -4.2 | 0.265 |
| 4-2920 | 4-3640 | 0.577 | 38.6 | 15.0 | -0.08 | 1.293 | 114.4 | 0.753 | 3.277 | 302.3 | 524.7 | 0.810 | --- | -1.24 | 0.284 | 125.9 | 270.9 | -4.2 | 0.255 |
| 4-2920 | 4-3660 | 0.576 | 38.8 | 14.9 | -0.14 | 1.291 | 114.4 | 0.749 | 3.227 | 302.1 | 526.1 | 0.809 | --- | -1.20 | 0.274 | 123.4 | 269.6 | -4.2 | 0.247 |
| 4-2920 | 4-3680 | 0.576 | 39.1 | 14.9 | -0.19 | 1.289 | 114.5 | 0.747 | 3.186 | 301.8 | 527.5 | 0.807 | --- | -1.17 | 0.266 | 120.8 | 268.2 | -4.2 | 0.239 |
| 4-2920 | 4-3700 | 0.577 | 39.4 | 14.9 | -0.23 | 1.288 | 114.6 | 0.744 | 3.151 | 301.4 | 528.8 | 0.806 | --- | -1.14 | 0.258 | 118.2 | 266.8 | -4.2 | 0.233 |
| 4-2920 | 4-3720 | 0.578 | 39.7 | 14.9 | -0.27 | 1.287 | 114.7 | 0.743 | 3.123 | 301.0 | 530.0 | 0.803 | --- | -1.11 | 0.252 | 115.6 | 265.4 | -4.2 | 0.228 |
| 4-2920 | 4-3740 | 0.580 | 40.0 | 14.9 | -0.32 | 1.286 | 114.9 | 0.742 | 3.099 | 300.6 | 531.2 | 0.800 | --- | -1.08 | 0.246 | 113.0 | 264.0 | -4.1 | 0.223 |
| 4-2920 | 4-3760 | 0.583 | 40.4 | 14.9 | -0.36 | 1.285 | 115.1 | 0.741 | 3.080 | 300.1 | 532.4 | 0.797 | --- | -1.06 | 0.240 | 110.3 | 262.6 | -4.1 | 0.220 |
| 4-2920 | 4-3780 | 0.586 | 40.7 | 15.0 | -0.39 | 1.284 | 115.3 | 0.741 | 3.064 | 299.5 | 533.5 | 0.794 | --- | -1.04 | 0.236 | 107.7 | 261.3 | -4.1 | 0.217 |
| 4-2920 | 4-3800 | 0.590 | 41.2 | 15.0 | -0.43 | 1.284 | 115.5 | 0.741 | 3.051 | 298.9 | 534.5 | 0.790 | --- | -1.01 | 0.232 | 105.1 | 260.0 | -4.1 | 0.215 |
| 4-2920 | 4-3820 | 0.594 | 41.6 | 15.1 | -0.46 | 1.283 | 115.8 | 0.742 | 3.041 | 298.3 | 535.5 | 0.786 | --- | -1.00 | 0.228 | 102.5 | 258.7 | -4.0 | 0.213 |
| 4-2920 | 4-3840 | 0.598 | 42.0 | 15.2 | -0.50 | 1.283 | 116.1 | 0.743 | 3.034 | 297.7 | 536.5 | 0.781 | --- | -0.98 | 0.225 | 99.9 | 257.6 | -4.0 | 0.212 |
| 4-2920 | 4-3860 | 0.603 | 42.5 | 15.3 | -0.53 | 1.283 | 116.4 | 0.744 | 3.028 | 297.0 | 537.4 | 0.776 | --- | -0.96 | 0.223 | 97.4 | 256.5 | -4.0 | 0.212 |
| 4-2920 | 4-3880 | 0.608 | 43.0 | 15.4 | -0.56 | 1.283 | 116.7 | 0.745 | 3.025 | 296.2 | 538.3 | 0.771 | --- | -0.95 | 0.221 | 94.9 | 255.5 | -4.0 | 0.212 |
| 4-2920 | 4-3900 | 0.614 | 43.5 | 15.5 | -0.59 | 1.283 | 117.0 | 0.747 | 3.023 | 295.5 | 539.2 | 0.766 | --- | -0.93 | 0.219 | 92.5 | 254.6 | -3.9 | 0.213 |
| 4-2920 | 4-3920 | 0.620 | 44.0 | 15.6 | -0.62 | 1.283 | 117.4 | 0.749 | 3.023 | 294.7 | 540.0 | 0.760 | --- | -0.92 | 0.218 | 90.1 | 253.8 | -3.9 | 0.214 |
| 4-2920 | 4-3940 | 0.627 | 44.5 | 15.7 | -0.65 | 1.283 | 117.8 | 0.751 | 3.024 | 293.8 | 540.8 | 0.754 | 5.294 | -0.91 | 0.217 | 87.7 | 253.1 | -3.9 | 0.215 |
| 4-2920 | 4-3960 | 0.633 | 45.0 | 15.8 | -0.67 | 1.283 | 118.2 | 0.753 | 3.026 | 293.0 | 541.5 | 0.747 | 5.305 | -0.90 | 0.217 | 85.4 | 252.6 | -3.8 | 0.217 |
| 4-2920 | 4-3980 | 0.641 | 45.6 | 15.9 | -0.70 | 1.283 | 118.6 | 0.756 | 3.029 | 292.1 | 542.2 | 0.741 | 5.318 | -0.89 | 0.216 | 83.2 | 252.1 | -3.8 | 0.219 |
| 4-2920 | 4-4000 | 0.648 | 46.1 | 16.1 | -0.73 | 1.283 | 119.0 | 0.758 | 3.033 | 291.2 | 542.9 | 0.734 | 5.333 | -0.88 | 0.216 | 81.0 | 251.7 | -3.8 | 0.221 |
| 4-2920 | 4-4020 | 0.656 | 46.7 | 16.2 | -0.75 | 1.283 | 119.5 | 0.761 | 3.039 | 290.2 | 543.6 | 0.726 | 5.351 | -0.87 | 0.217 | 78.9 | 251.5 | -3.7 | 0.224 |
| 4-2920 | 4-4040 | 0.664 | 47.3 | 16.3 | -0.78 | 1.283 | 119.9 | 0.764 | 3.045 | 289.3 | 544.2 | 0.719 | 5.370 | -0.87 | 0.217 | 76.9 | 251.3 | -3.7 | 0.227 |
| 4-2920 | 4-4060 | 0.672 | 47.9 | 16.5 | -0.80 | 1.284 | 120.4 | 0.767 | 3.051 | 288.3 | 544.8 | 0.711 | 5.392 | -0.86 | 0.218 | 74.9 | 251.3 | -3.7 | 0.230 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2920 | 4-4080 | 0.681 | 48.5 | 16.6 | -0.82 | 1.284 | 120.9 | 0.770 | 3.058 | 287.3 | 545.3 | 0.703 | 5.414 | -0.86 | 0.219 | 72.9 | 251.3 | -3.7 | 0.233 |
| 4-2920 | 4-4100 | 0.689 | 49.1 | 16.7 | -0.85 | 1.284 | 121.4 | 0.774 | 3.066 | 286.2 | 545.9 | 0.694 | 5.439 | -0.85 | 0.220 | 71.1 | 251.4 | -3.7 | 0.236 |
| 4-2920 | 4-4120 | 0.698 | 49.7 | 16.9 | -0.87 | 1.285 | 121.9 | 0.777 | 3.075 | 285.2 | 546.4 | 0.686 | 5.464 | -0.85 | 0.221 | 69.3 | 251.6 | -3.6 | 0.239 |
| 4-2920 | 4-4140 | 0.708 | 50.3 | 17.0 | -0.90 | 1.285 | 122.5 | 0.781 | 3.084 | 284.1 | 546.9 | 0.677 | 5.491 | -0.84 | 0.222 | 67.5 | 251.8 | -3.6 | 0.243 |
| 4-2920 | 4-4160 | 0.717 | 50.9 | 17.2 | -0.92 | 1.285 | 123.0 | 0.784 | 3.093 | 283.0 | 547.3 | 0.667 | 5.519 | -0.84 | 0.223 | 65.8 | 252.2 | -3.6 | 0.246 |
| 4-2920 | 4-4180 | 0.727 | 51.6 | 17.3 | -0.94 | 1.286 | 123.6 | 0.788 | 3.103 | 281.9 | 547.8 | 0.658 | 5.548 | -0.84 | 0.225 | 64.1 | 252.6 | -3.6 | 0.250 |
| 4-2920 | 4-4200 | 0.737 | 52.2 | 17.5 | -0.96 | 1.286 | 124.1 | 0.792 | 3.113 | 280.7 | 548.2 | 0.648 | 5.578 | -0.84 | 0.226 | 62.5 | 253.0 | -3.6 | 0.254 |
| 4-2920 | 4-4220 | 0.748 | 52.8 | 17.6 | -0.99 | 1.287 | 124.7 | 0.796 | 3.124 | 279.5 | 548.6 | 0.638 | 5.609 | -0.84 | 0.228 | 60.9 | 253.6 | -3.6 | 0.257 |
| 4-2920 | 4-4240 | 0.758 | 53.5 | 17.8 | -1.01 | 1.287 | 125.3 | 0.800 | 3.135 | 278.4 | 548.9 | 0.628 | 5.641 | -0.84 | 0.229 | 59.4 | 254.2 | -3.6 | 0.261 |
| 4-2920 | 4-4260 | 0.769 | 54.1 | 17.9 | -1.03 | 1.288 | 125.9 | 0.804 | 3.146 | 277.2 | 549.3 | 0.617 | 5.674 | -0.84 | 0.231 | 57.9 | 254.8 | -3.6 | 0.265 |
| 4-2920 | 4-4280 | 0.780 | 54.8 | 18.1 | -1.06 | 1.288 | 126.6 | 0.808 | 3.157 | 275.9 | 549.6 | 0.607 | 5.708 | -0.84 | 0.233 | 56.5 | 255.5 | -3.6 | 0.269 |
| 4-2920 | 4-4300 | 0.791 | 55.4 | 18.2 | -1.08 | 1.289 | 127.2 | 0.812 | 3.169 | 274.7 | 549.9 | 0.596 | 5.742 | -0.84 | 0.235 | 55.1 | 256.3 | -3.6 | 0.273 |
| 4-2920 | 4-4320 | 0.803 | 56.1 | 18.4 | -1.10 | 1.289 | 127.8 | 0.816 | 3.181 | 273.4 | 550.2 | 0.585 | 5.778 | -0.84 | 0.237 | 53.7 | 257.1 | -3.6 | 0.277 |
| 4-2920 | 4-4340 | 0.814 | 56.8 | 18.5 | -1.12 | 1.289 | 128.5 | 0.820 | 3.193 | 272.2 | 550.4 | 0.573 | 5.813 | -0.85 | 0.239 | 52.4 | 257.9 | -3.6 | 0.281 |
| 4-2920 | 4-4360 | 0.826 | 57.4 | 18.7 | -1.15 | 1.290 | 129.2 | 0.825 | 3.206 | 270.9 | 550.7 | 0.562 | 5.850 | -0.85 | 0.241 | 51.1 | 258.8 | -3.6 | 0.285 |
| 4-2920 | 4-4380 | 0.838 | 58.1 | 18.8 | -1.17 | 1.290 | 129.8 | 0.829 | 3.218 | 269.5 | 550.9 | 0.550 | 5.887 | -0.85 | 0.242 | 49.8 | 259.7 | -3.6 | 0.289 |
| 4-2920 | 4-4400 | 0.851 | 58.8 | 18.9 | -1.19 | 1.291 | 130.5 | 0.834 | 3.231 | 268.2 | 551.1 | 0.538 | 5.924 | -0.86 | 0.244 | 48.6 | 260.6 | -3.6 | 0.293 |
| 4-2920 | 4-4420 | 0.863 | 59.5 | 19.1 | -1.22 | 1.291 | 131.2 | 0.838 | 3.244 | 266.9 | 551.3 | 0.526 | 5.963 | -0.86 | 0.246 | 47.4 | 261.6 | -3.6 | 0.298 |
| 4-2920 | 4-4440 | 0.876 | 60.2 | 19.2 | -1.24 | 1.292 | 132.0 | 0.842 | 3.257 | 265.5 | 551.5 | 0.513 | 6.001 | -0.87 | 0.249 | 46.2 | 262.7 | -3.6 | 0.302 |
| 4-2920 | 4-4460 | 0.888 | 60.8 | 19.4 | -1.27 | 1.292 | 132.7 | 0.847 | 3.271 | 264.1 | 551.6 | 0.501 | 6.040 | -0.88 | 0.251 | 45.0 | 263.7 | -3.6 | 0.306 |
| 4-2920 | 4-4480 | 0.901 | 61.5 | 19.5 | -1.29 | 1.293 | 133.4 | 0.851 | 3.284 | 262.7 | 551.7 | 0.488 | 6.080 | -0.89 | 0.253 | 43.9 | 264.8 | -3.6 | 0.310 |
| 4-2920 | 4-4500 | 0.915 | 62.2 | 19.6 | -1.32 | 1.293 | 134.2 | 0.856 | 3.297 | 261.3 | 551.8 | 0.475 | 6.120 | -0.89 | 0.255 | 42.7 | 265.9 | -3.6 | 0.315 |
| 4-2920 | 4-4520 | 0.928 | 62.9 | 19.8 | -1.34 | 1.294 | 134.9 | 0.860 | 3.311 | 259.9 | 551.9 | 0.462 | 6.160 | -0.90 | 0.257 | 41.6 | 267.0 | -3.5 | 0.319 |
| 4-2930 | 4-3330 | 0.725 | 43.3 | 25.3 | 4.81 | 1.416 | 117.7 | 1.026 | 30.639 | 305.3 | 491.6 | 0.797 | --- | -5.97 | 0.653 | 157.5 | 280.9 | -5.4 | 0.618 |
| 4-2930 | 4-3350 | 0.693 | 43.2 | 23.2 | 3.52 | 1.397 | 116.7 | 0.984 | 49.799 | 306.1 | 494.1 | 0.807 | --- | -4.69 | 0.611 | 156.0 | 281.1 | -5.0 | 0.575 |
| 4-2930 | 4-3370 | 0.665 | 43.1 | 21.7 | 2.69 | 1.381 | 115.8 | 0.947 | 15.474 | 306.8 | 496.6 | 0.816 | --- | -3.87 | 0.573 | 154.4 | 281.2 | -4.8 | 0.536 |
| 4-2930 | 4-3390 | 0.641 | 42.9 | 20.7 | 2.10 | 1.367 | 115.1 | 0.916 | 9.766 | 307.4 | 498.9 | 0.824 | --- | -3.29 | 0.539 | 152.8 | 281.3 | -4.6 | 0.501 |
| 4-2930 | 4-3410 | 0.621 | 42.7 | 19.8 | 1.67 | 1.356 | 114.4 | 0.888 | 7.430 | 308.0 | 501.2 | 0.831 | --- | -2.87 | 0.507 | 151.1 | 281.3 | -4.5 | 0.470 |
| 4-2930 | 4-3430 | 0.603 | 42.5 | 19.2 | 1.33 | 1.345 | 113.7 | 0.864 | 6.168 | 308.5 | 503.5 | 0.837 | --- | -2.55 | 0.479 | 149.3 | 281.1 | -4.4 | 0.441 |
| 4-2930 | 4-3450 | 0.588 | 42.3 | 18.6 | 1.07 | 1.337 | 113.2 | 0.844 | 5.383 | 309.0 | 505.7 | 0.842 | --- | -2.29 | 0.453 | 147.5 | 280.9 | -4.4 | 0.414 |
| 4-2930 | 4-3470 | 0.575 | 42.1 | 18.1 | 0.85 | 1.329 | 112.7 | 0.826 | 4.852 | 309.4 | 507.8 | 0.846 | --- | -2.09 | 0.429 | 145.6 | 280.6 | -4.3 | 0.390 |
| 4-2930 | 4-3490 | 0.564 | 42.0 | 17.7 | 0.67 | 1.322 | 112.3 | 0.810 | 4.472 | 309.7 | 509.8 | 0.850 | --- | -1.91 | 0.408 | 143.6 | 280.2 | -4.3 | 0.368 |
| 4-2930 | 4-3510 | 0.554 | 41.9 | 17.3 | 0.52 | 1.317 | 112.0 | 0.796 | 4.188 | 310.0 | 511.8 | 0.853 | --- | -1.77 | 0.388 | 141.6 | 279.6 | -4.2 | 0.348 |
| 4-2930 | 4-3530 | 0.546 | 41.8 | 17.0 | 0.39 | 1.312 | 111.7 | 0.784 | 3.970 | 310.2 | 513.7 | 0.856 | --- | -1.65 | 0.370 | 139.5 | 279.0 | -4.2 | 0.330 |
| 4-2930 | 4-3550 | 0.539 | 41.8 | 16.8 | 0.27 | 1.307 | 111.5 | 0.774 | 3.799 | 310.3 | 515.5 | 0.858 | --- | -1.55 | 0.353 | 137.4 | 278.3 | -4.2 | 0.313 |
| 4-2930 | 4-3570 | 0.534 | 41.8 | 16.5 | 0.17 | 1.304 | 111.3 | 0.765 | 3.662 | 310.4 | 517.3 | 0.859 | --- | -1.45 | 0.338 | 135.1 | 277.4 | -4.2 | 0.298 |
| 4-2930 | 4-3590 | 0.529 | 41.9 | 16.3 | 0.08 | 1.300 | 111.2 | 0.758 | 3.551 | 310.4 | 519.0 | 0.860 | --- | -1.38 | 0.325 | 132.9 | 276.5 | -4.2 | 0.285 |
| 4-2930 | 4-3610 | 0.526 | 42.0 | 16.2 | 0.00 | 1.297 | 111.1 | 0.751 | 3.460 | 310.4 | 520.6 | 0.861 | --- | -1.31 | 0.312 | 130.5 | 275.5 | -4.2 | 0.273 |
| 4-2930 | 4-3630 | 0.523 | 42.1 | 16.1 | -0.07 | 1.295 | 111.0 | 0.746 | 3.385 | 310.3 | 522.2 | 0.861 | --- | -1.24 | 0.301 | 128.2 | 274.4 | -4.2 | 0.262 |
| 4-2930 | 4-3650 | 0.521 | 42.3 | 15.9 | -0.14 | 1.293 | 111.0 | 0.741 | 3.323 | 310.1 | 523.7 | 0.860 | --- | -1.19 | 0.291 | 125.8 | 273.2 | -4.2 | 0.252 |
| 4-2930 | 4-3670 | 0.520 | 42.5 | 15.9 | -0.20 | 1.291 | 111.0 | 0.737 | 3.271 | 309.9 | 525.2 | 0.860 | --- | -1.14 | 0.281 | 123.3 | 271.9 | -4.2 | 0.243 |
| 4-2930 | 4-3690 | 0.520 | 42.8 | 15.8 | -0.25 | 1.289 | 111.1 | 0.734 | 3.228 | 309.6 | 526.6 | 0.858 | --- | -1.10 | 0.273 | 120.8 | 270.6 | -4.2 | 0.236 |
| 4-2930 | 4-3710 | 0.520 | 43.1 | 15.8 | -0.30 | 1.288 | 111.2 | 0.732 | 3.192 | 309.3 | 527.9 | 0.857 | --- | -1.06 | 0.266 | 118.3 | 269.2 | -4.1 | 0.229 |
| 4-2930 | 4-3730 | 0.521 | 43.4 | 15.8 | -0.35 | 1.287 | 111.3 | 0.730 | 3.162 | 308.9 | 529.2 | 0.855 | --- | -1.02 | 0.259 | 115.8 | 267.9 | -4.1 | 0.223 |
| 4-2930 | 4-3750 | 0.523 | 43.8 | 15.8 | -0.39 | 1.286 | 111.4 | 0.728 | 3.137 | 308.5 | 530.4 | 0.853 | --- | -0.99 | 0.253 | 113.3 | 266.5 | -4.1 | 0.219 |
| 4-2930 | 4-3770 | 0.525 | 44.1 | 15.8 | -0.43 | 1.285 | 111.6 | 0.727 | 3.117 | 308.0 | 531.6 | 0.850 | --- | -0.96 | 0.248 | 110.8 | 265.1 | -4.1 | 0.215 |
| 4-2930 | 4-3790 | 0.528 | 44.6 | 15.8 | -0.47 | 1.284 | 111.8 | 0.727 | 3.100 | 307.5 | 532.7 | 0.847 | --- | -0.93 | 0.243 | 108.3 | 263.7 | -4.1 | 0.211 |
| 4-2930 | 4-3810 | 0.531 | 45.0 | 15.9 | -0.51 | 1.284 | 112.0 | 0.726 | 3.086 | 307.0 | 533.8 | 0.844 | --- | -0.90 | 0.239 | 105.8 | 262.4 | -4.0 | 0.209 |
| 4-2930 | 4-3830 | 0.534 | 45.4 | 15.9 | -0.54 | 1.283 | 112.2 | 0.727 | 3.076 | 306.4 | 534.9 | 0.841 | --- | -0.88 | 0.236 | 103.3 | 261.1 | -4.0 | 0.207 |
| 4-2930 | 4-3850 | 0.538 | 45.9 | 16.0 | -0.58 | 1.283 | 112.5 | 0.727 | 3.067 | 305.8 | 535.9 | 0.837 | --- | -0.86 | 0.233 | 100.8 | 259.9 | -4.0 | 0.206 |
| 4-2930 | 4-3870 | 0.542 | 46.4 | 16.1 | -0.61 | 1.283 | 112.8 | 0.728 | 3.061 | 305.1 | 536.8 | 0.833 | --- | -0.84 | 0.230 | 98.4 | 258.8 | -3.9 | 0.205 |
| 4-2930 | 4-3890 | 0.547 | 46.9 | 16.2 | -0.64 | 1.283 | 113.1 | 0.729 | 3.057 | 304.4 | 537.7 | 0.828 | --- | -0.82 | 0.228 | 96.1 | 257.8 | -3.9 | 0.205 |
| 4-2930 | 4-3910 | 0.552 | 47.5 | 16.3 | -0.66 | 1.283 | 113.4 | 0.730 | 3.055 | 303.7 | 538.6 | 0.824 | --- | -0.80 | 0.226 | 93.7 | 256.8 | -3.9 | 0.205 |
| 4-2930 | 4-3930 | 0.558 | 48.0 | 16.4 | -0.69 | 1.283 | 113.7 | 0.732 | 3.054 | 303.0 | 539.5 | 0.819 | --- | -0.79 | 0.225 | 91.4 | 256.0 | -3.8 | 0.206 |
| 4-2930 | 4-3950 | 0.563 | 48.6 | 16.5 | -0.72 | 1.283 | 114.1 | 0.734 | 3.055 | 302.2 | 540.3 | 0.813 | 5.296 | -0.78 | 0.224 | 89.2 | 255.2 | -3.8 | 0.207 |
| 4-2930 | 4-3970 | 0.570 | 49.2 | 16.6 | -0.74 | 1.283 | 114.4 | 0.736 | 3.056 | 301.3 | 541.1 | 0.808 | 5.305 | -0.76 | 0.224 | 87.0 | 254.6 | -3.8 | 0.209 |
| 4-2930 | 4-3990 | 0.576 | 49.8 | 16.7 | -0.77 | 1.283 | 114.8 | 0.738 | 3.059 | 300.5 | 541.8 | 0.802 | 5.316 | -0.75 | 0.223 | 84.9 | 254.1 | -3.7 | 0.210 |
| 4-2930 | 4-4010 | 0.583 | 50.4 | 16.8 | -0.79 | 1.283 | 115.2 | 0.740 | 3.063 | 299.6 | 542.5 | 0.796 | 5.330 | -0.74 | 0.223 | 82.8 | 253.6 | -3.7 | 0.212 |
| 4-2930 | 4-4030 | 0.590 | 51.0 | 17.0 | -0.81 | 1.283 | 115.6 | 0.743 | 3.068 | 298.7 | 543.2 | 0.790 | 5.346 | -0.73 | 0.223 | 80.8 | 253.3 | -3.7 | 0.215 |
| 4-2930 | 4-4050 | 0.597 | 51.6 | 17.1 | -0.84 | 1.283 | 116.1 | 0.745 | 3.073 | 297.8 | 543.9 | 0.783 | 5.364 | -0.72 | 0.224 | 78.9 | 253.1 | -3.7 | 0.217 |
| 4-2930 | 4-4070 | 0.605 | 52.2 | 17.2 | -0.86 | 1.284 | 116.5 | 0.748 | 3.080 | 296.8 | 544.5 | 0.776 | 5.383 | -0.71 | 0.224 | 77.0 | 252.9 | -3.6 | 0.220 |
| 4-2930 | 4-4090 | 0.612 | 52.9 | 17.4 | -0.88 | 1.284 | 117.0 | 0.751 | 3.086 | 295.9 | 545.1 | 0.769 | 5.404 | -0.70 | 0.225 | 75.2 | 252.9 | -3.6 | 0.222 |
| 4-2930 | 4-4110 | 0.620 | 53.5 | 17.5 | -0.90 | 1.284 | 117.4 | 0.754 | 3.094 | 294.9 | 545.7 | 0.761 | 5.427 | -0.70 | 0.226 | 73.4 | 252.9 | -3.6 | 0.225 |
| 4-2930 | 4-4130 | 0.629 | 54.2 | 17.7 | -0.92 | 1.285 | 117.9 | 0.757 | 3.102 | 293.8 | 546.2 | 0.754 | 5.450 | -0.69 | 0.227 | 71.6 | 253.1 | -3.6 | 0.228 |
| 4-2930 | 4-4150 | 0.637 | 54.8 | 17.8 | -0.94 | 1.285 | 118.4 | 0.760 | 3.111 | 292.8 | 546.8 | 0.746 | 5.476 | -0.68 | 0.228 | 69.9 | 253.3 | -3.6 | 0.232 |
| 4-2930 | 4-4170 | 0.646 | 55.5 | 18.0 | -0.96 | 1.285 | 118.9 | 0.764 | 3.120 | 291.7 | 547.3 | 0.738 | 5.502 | -0.68 | 0.229 | 68.3 | 253.5 | -3.6 | 0.235 |
| 4-2930 | 4-4190 | 0.655 | 56.2 | 18.1 | -0.98 | 1.286 | 119.5 | 0.767 | 3.129 | 290.7 | 547.7 | 0.729 | 5.529 | -0.68 | 0.230 | 66.7 | 253.9 | -3.5 | 0.238 |
| 4-2930 | 4-4210 | 0.665 | 56.9 | 18.2 | -1.00 | 1.286 | 120.0 | 0.770 | 3.139 | 289.6 | 548.2 | 0.720 | 5.558 | -0.67 | 0.232 | 65.2 | 254.3 | -3.5 | 0.242 |
| 4-2930 | 4-4230 | 0.674 | 57.5 | 18.4 | -1.01 | 1.286 | 120.5 | 0.774 | 3.149 | 288.4 | 548.6 | 0.712 | 5.587 | -0.67 | 0.233 | 63.7 | 254.7 | -3.5 | 0.245 |
| 4-2930 | 4-4250 | 0.684 | 58.2 | 18.5 | -1.03 | 1.287 | 121.1 | 0.778 | 3.160 | 287.3 | 549.0 | 0.702 | 5.618 | -0.67 | 0.235 | 62.2 | 255.3 | -3.5 | 0.249 |
| 4-2930 | 4-4270 | 0.694 | 58.9 | 18.7 | -1.05 | 1.287 | 121.7 | 0.781 | 3.171 | 286.1 | 549.4 | 0.693 | 5.649 | -0.66 | 0.236 | 60.8 | 255.9 | -3.5 | 0.252 |
| 4-2930 | 4-4290 | 0.704 | 59.6 | 18.8 | -1.07 | 1.288 | 122.2 | 0.785 | 3.182 | 285.0 | 549.8 | 0.683 | 5.681 | -0.66 | 0.238 | 59.4 | 256.5 | -3.5 | 0.256 |
| 4-2930 | 4-4310 | 0.714 | 60.3 | 19.0 | -1.09 | 1.288 | 122.8 | 0.789 | 3.193 | 283.8 | 550.1 | 0.673 | 5.714 | -0.66 | 0.240 | 58.1 | 257.2 | -3.5 | 0.260 |
| 4-2930 | 4-4330 | 0.725 | 61.0 | 19.1 | -1.10 | 1.289 | 123.4 | 0.793 | 3.205 | 282.6 | 550.5 | 0.663 | 5.747 | -0.66 | 0.241 | 56.8 | 257.9 | -3.5 | 0.263 |
| 4-2930 | 4-4350 | 0.736 | 61.7 | 19.2 | -1.12 | 1.289 | 124.1 | 0.797 | 3.217 | 281.3 | 550.8 | 0.653 | 5.781 | -0.66 | 0.243 | 55.5 | 258.7 | -3.5 | 0.267 |
| 4-2930 | 4-4370 | 0.747 | 62.4 | 19.4 | -1.14 | 1.289 | 124.7 | 0.801 | 3.229 | 280.1 | 551.1 | 0.642 | 5.816 | -0.66 | 0.245 | 54.3 | 259.5 | -3.5 | 0.271 |
| 4-2930 | 4-4390 | 0.758 | 63.1 | 19.5 | -1.16 | 1.290 | 125.3 | 0.805 | 3.241 | 278.8 | 551.3 | 0.631 | 5.852 | -0.66 | 0.247 | 53.0 | 260.4 | -3.5 | 0.275 |
| 4-2930 | 4-4410 | 0.769 | 63.8 | 19.6 | -1.17 | 1.290 | 126.0 | 0.809 | 3.254 | 277.5 | 551.6 | 0.620 | 5.888 | -0.66 | 0.249 | 51.8 | 261.3 | -3.5 | 0.279 |
| 4-2930 | 4-4430 | 0.781 | 64.5 | 19.8 | -1.19 | 1.291 | 126.6 | 0.814 | 3.267 | 276.2 | 551.8 | 0.609 | 5.924 | -0.66 | 0.251 | 50.7 | 262.3 | -3.5 | 0.282 |
| 4-2930 | 4-4450 | 0.793 | 65.2 | 19.9 | -1.21 | 1.291 | 127.3 | 0.818 | 3.279 | 274.9 | 552.0 | 0.597 | 5.962 | -0.66 | 0.252 | 49.5 | 263.2 | -3.5 | 0.286 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2930 | 4-4470 | 0.805 | 66.0 | 20.0 | -1.23 | 1.292 | 128.0 | 0.822 | 3.292 | 273.6 | 552.2 | 0.585 | 5.999 | -0.67 | 0.254 | 48.4 | 264.2 | -3.5 | 0.290 |
| 4-2930 | 4-4490 | 0.817 | 66.7 | 20.2 | -1.25 | 1.292 | 128.7 | 0.827 | 3.305 | 272.3 | 552.4 | 0.573 | 6.037 | -0.67 | 0.256 | 47.3 | 265.3 | -3.5 | 0.294 |
| 4-2930 | 4-4510 | 0.829 | 67.4 | 20.3 | -1.26 | 1.293 | 129.4 | 0.831 | 3.319 | 270.9 | 552.6 | 0.561 | 6.076 | -0.67 | 0.258 | 46.2 | 266.3 | -3.5 | 0.298 |
| 4-2930 | 4-4530 | 0.842 | 68.1 | 20.4 | -1.28 | 1.293 | 130.1 | 0.835 | 3.332 | 269.5 | 552.7 | 0.549 | 6.115 | -0.68 | 0.260 | 45.2 | 267.4 | -3.5 | 0.302 |
| 4-2940 | 4-3340 | 0.703 | 57.1 | -3.3 | -12.12 | 1.416 | 114.2 | 1.02928.934 | | 312.4 | 490.0 | 0.848 | --- | 10.91 | 0.654 | 156.8 | 282.0 | 1.6 | 0.616 |
| 4-2940 | 4-3360 | 0.944 | 79.2 | -30.9 | -36.34 | 1.397 | 113.1 | 0.98556.156 | | 313.3 | 492.5 | 0.857 | --- | 35.12 | 0.613 | 155.3 | 278.3 | 11.1 | 0.606 |
| 4-2940 | 4-3380 | 0.743 | 41.0 | 58.3 | 21.96 | 1.381 | 112.4 | 0.94616.109 | | 313.9 | 495.1 | 0.864 | --- | -23.18 | 0.575 | 153.7 | 280.9 | -13.5 | 0.549 |
| 4-2940 | 4-3400 | 0.606 | 43.2 | 34.6 | 8.11 | 1.368 | 111.6 | 0.91310.036 | | 314.6 | 497.5 | 0.871 | --- | -9.34 | 0.541 | 152.1 | 282.6 | -7.7 | 0.500 |
| 4-2940 | 4-3420 | 0.572 | 44.3 | 27.5 | 4.58 | 1.356 | 110.9 | 0.884 7.595 | | 315.3 | 499.9 | 0.878 | --- | -5.82 | 0.510 | 150.4 | 282.7 | -6.1 | 0.467 |
| 4-2940 | 4-3440 | 0.552 | 44.6 | 24.1 | 2.98 | 1.346 | 110.3 | 0.860 6.287 | | 315.9 | 502.2 | 0.883 | --- | -4.23 | 0.482 | 148.7 | 282.7 | -5.4 | 0.438 |
| 4-2940 | 4-3460 | 0.535 | 44.7 | 22.1 | 2.07 | 1.337 | 109.8 | 0.838 5.477 | | 316.4 | 504.4 | 0.888 | --- | -3.33 | 0.456 | 146.8 | 282.5 | -5.0 | 0.411 |
| 4-2940 | 4-3480 | 0.522 | 44.7 | 20.7 | 1.48 | 1.329 | 109.3 | 0.819 4.930 | | 316.9 | 506.6 | 0.892 | --- | -2.74 | 0.433 | 145.0 | 282.2 | -4.8 | 0.387 |
| 4-2940 | 4-3500 | 0.511 | 44.6 | 19.7 | 1.07 | 1.323 | 108.9 | 0.803 4.539 | | 317.3 | 508.7 | 0.895 | --- | -2.34 | 0.411 | 143.0 | 281.8 | -4.6 | 0.365 |
| 4-2940 | 4-3520 | 0.501 | 44.6 | 18.9 | 0.76 | 1.317 | 108.6 | 0.789 4.248 | | 317.6 | 510.7 | 0.898 | --- | -2.04 | 0.392 | 141.0 | 281.3 | -4.5 | 0.345 |
| 4-2940 | 4-3540 | 0.493 | 44.6 | 18.3 | 0.53 | 1.312 | 108.3 | 0.776 4.024 | | 317.8 | 512.6 | 0.901 | --- | -1.81 | 0.374 | 139.0 | 280.7 | -4.4 | 0.327 |
| 4-2940 | 4-3560 | 0.487 | 44.5 | 17.8 | 0.34 | 1.308 | 108.1 | 0.766 3.849 | | 318.0 | 514.5 | 0.902 | --- | -1.63 | 0.358 | 136.8 | 280.1 | -4.3 | 0.311 |
| 4-2940 | 4-3580 | 0.481 | 44.6 | 17.4 | 0.19 | 1.304 | 107.9 | 0.756 3.709 | | 318.1 | 516.3 | 0.904 | --- | -1.48 | 0.343 | 134.7 | 279.3 | -4.2 | 0.296 |
| 4-2940 | 4-3600 | 0.476 | 44.6 | 17.1 | 0.06 | 1.301 | 107.8 | 0.748 3.595 | | 318.2 | 518.1 | 0.905 | --- | -1.36 | 0.330 | 132.4 | 278.4 | -4.2 | 0.282 |
| 4-2940 | 4-3620 | 0.473 | 44.7 | 16.8 | -0.05 | 1.298 | 107.7 | 0.741 3.502 | | 318.2 | 519.7 | 0.905 | --- | -1.26 | 0.317 | 130.2 | 277.4 | -4.2 | 0.270 |
| 4-2940 | 4-3640 | 0.470 | 44.9 | 16.6 | -0.14 | 1.295 | 107.6 | 0.736 3.425 | | 318.1 | 521.3 | 0.905 | --- | -1.17 | 0.306 | 127.8 | 276.3 | -4.1 | 0.259 |
| 4-2940 | 4-3660 | 0.468 | 45.1 | 16.4 | -0.23 | 1.293 | 107.6 | 0.731 3.361 | | 318.0 | 522.9 | 0.905 | --- | -1.10 | 0.296 | 125.5 | 275.1 | -4.1 | 0.249 |
| 4-2940 | 4-3680 | 0.467 | 45.3 | 16.3 | -0.30 | 1.291 | 107.6 | 0.727 3.308 | | 317.8 | 524.4 | 0.905 | --- | -1.03 | 0.287 | 123.1 | 273.9 | -4.1 | 0.240 |
| 4-2940 | 4-3700 | 0.467 | 45.6 | 16.2 | -0.36 | 1.290 | 107.6 | 0.723 3.264 | | 317.6 | 525.8 | 0.904 | --- | -0.98 | 0.279 | 120.7 | 272.6 | -4.1 | 0.232 |
| 4-2940 | 4-3720 | 0.467 | 45.9 | 16.2 | -0.42 | 1.288 | 107.7 | 0.720 3.227 | | 317.3 | 527.1 | 0.903 | --- | -0.93 | 0.271 | 118.3 | 271.3 | -4.1 | 0.225 |
| 4-2940 | 4-3740 | 0.467 | 46.2 | 16.1 | -0.47 | 1.287 | 107.8 | 0.718 3.196 | | 317.0 | 528.5 | 0.901 | --- | -0.88 | 0.265 | 115.9 | 269.9 | -4.0 | 0.219 |
| 4-2940 | 4-3760 | 0.468 | 46.6 | 16.1 | -0.51 | 1.286 | 107.9 | 0.716 3.170 | | 316.6 | 529.7 | 0.899 | --- | -0.84 | 0.259 | 113.4 | 268.6 | -4.0 | 0.214 |
| 4-2940 | 4-3780 | 0.470 | 47.0 | 16.1 | -0.56 | 1.285 | 108.1 | 0.715 3.149 | | 316.1 | 530.9 | 0.897 | --- | -0.81 | 0.254 | 111.0 | 267.2 | -4.0 | 0.210 |
| 4-2940 | 4-3800 | 0.472 | 47.5 | 16.1 | -0.60 | 1.285 | 108.3 | 0.714 3.132 | | 315.7 | 532.1 | 0.895 | --- | -0.78 | 0.249 | 108.6 | 265.8 | -3.9 | 0.207 |
| 4-2940 | 4-3820 | 0.475 | 47.9 | 16.2 | -0.63 | 1.284 | 108.5 | 0.714 3.118 | | 315.2 | 533.2 | 0.892 | --- | -0.75 | 0.245 | 106.2 | 264.5 | -3.9 | 0.204 |
| 4-2940 | 4-3840 | 0.478 | 48.4 | 16.2 | -0.66 | 1.284 | 108.7 | 0.714 3.106 | | 314.6 | 534.3 | 0.889 | --- | -0.72 | 0.242 | 103.8 | 263.2 | -3.9 | 0.202 |
| 4-2940 | 4-3860 | 0.481 | 49.0 | 16.3 | -0.70 | 1.283 | 108.9 | 0.714 3.098 | | 314.0 | 535.3 | 0.886 | --- | -0.70 | 0.239 | 101.4 | 262.0 | -3.9 | 0.201 |
| 4-2940 | 4-3880 | 0.485 | 49.5 | 16.4 | -0.72 | 1.283 | 109.2 | 0.714 3.091 | | 313.4 | 536.3 | 0.883 | --- | -0.68 | 0.236 | 99.1 | 260.9 | -3.8 | 0.200 |
| 4-2940 | 4-3900 | 0.489 | 50.1 | 16.5 | -0.75 | 1.283 | 109.5 | 0.715 3.087 | | 312.7 | 537.2 | 0.879 | --- | -0.66 | 0.234 | 96.9 | 259.8 | -3.8 | 0.199 |
| 4-2940 | 4-3920 | 0.494 | 50.7 | 16.6 | -0.78 | 1.283 | 109.8 | 0.716 3.084 | | 312.0 | 538.2 | 0.875 | --- | -0.64 | 0.233 | 94.6 | 258.8 | -3.8 | 0.199 |
| 4-2940 | 4-3940 | 0.499 | 51.3 | 16.7 | -0.80 | 1.283 | 110.1 | 0.717 3.083 | | 311.3 | 539.0 | 0.871 | --- | -0.62 | 0.231 | 92.5 | 257.9 | -3.7 | 0.200 |
| 4-2940 | 4-3960 | 0.504 | 51.9 | 16.8 | -0.82 | 1.283 | 110.4 | 0.719 3.083 | | 310.5 | 539.9 | 0.867 | --- | -0.61 | 0.230 | 90.3 | 257.1 | -3.7 | 0.200 |
| 4-2940 | 4-3980 | 0.509 | 52.6 | 16.9 | -0.85 | 1.283 | 110.8 | 0.721 3.084 | | 309.7 | 540.7 | 0.862 | 5.307 | -0.59 | 0.230 | 88.3 | 256.5 | -3.7 | 0.202 |
| 4-2940 | 4-4000 | 0.515 | 53.2 | 17.1 | -0.87 | 1.283 | 111.1 | 0.722 3.087 | | 308.9 | 541.5 | 0.857 | 5.317 | -0.58 | 0.229 | 86.2 | 255.9 | -3.6 | 0.203 |
| 4-2940 | 4-4020 | 0.521 | 53.9 | 17.2 | -0.89 | 1.283 | 111.5 | 0.724 3.090 | | 308.1 | 542.2 | 0.852 | 5.329 | -0.57 | 0.229 | 84.3 | 255.4 | -3.6 | 0.205 |
| 4-2940 | 4-4040 | 0.527 | 54.6 | 17.4 | -0.91 | 1.283 | 111.9 | 0.727 3.095 | | 307.2 | 542.9 | 0.846 | 5.343 | -0.56 | 0.229 | 82.3 | 255.0 | -3.6 | 0.207 |
| 4-2940 | 4-4060 | 0.534 | 55.3 | 17.5 | -0.92 | 1.283 | 112.3 | 0.729 3.100 | | 306.3 | 543.6 | 0.841 | 5.359 | -0.55 | 0.229 | 80.5 | 254.7 | -3.6 | 0.209 |
| 4-2940 | 4-4080 | 0.541 | 56.0 | 17.6 | -0.94 | 1.284 | 112.7 | 0.731 3.106 | | 305.4 | 544.3 | 0.835 | 5.377 | -0.54 | 0.230 | 78.7 | 254.5 | -3.5 | 0.211 |
| 4-2940 | 4-4100 | 0.548 | 56.7 | 17.8 | -0.96 | 1.284 | 113.2 | 0.734 3.113 | | 304.4 | 544.9 | 0.829 | 5.397 | -0.53 | 0.230 | 76.9 | 254.4 | -3.5 | 0.214 |
| 4-2940 | 4-4120 | 0.555 | 57.4 | 17.9 | -0.98 | 1.284 | 113.6 | 0.736 3.120 | | 303.5 | 545.5 | 0.822 | 5.418 | -0.52 | 0.231 | 75.2 | 254.4 | -3.5 | 0.216 |
| 4-2940 | 4-4140 | 0.563 | 58.1 | 18.1 | -0.99 | 1.285 | 114.1 | 0.739 3.128 | | 302.5 | 546.1 | 0.816 | 5.440 | -0.52 | 0.232 | 73.5 | 254.5 | -3.5 | 0.219 |
| 4-2940 | 4-4160 | 0.571 | 58.8 | 18.2 | -1.01 | 1.285 | 114.5 | 0.742 3.136 | | 301.5 | 546.6 | 0.809 | 5.464 | -0.51 | 0.233 | 71.9 | 254.6 | -3.5 | 0.222 |
| 4-2940 | 4-4180 | 0.579 | 59.5 | 18.4 | -1.02 | 1.285 | 115.0 | 0.745 3.145 | | 300.4 | 547.2 | 0.802 | 5.489 | -0.50 | 0.234 | 70.4 | 254.8 | -3.5 | 0.225 |
| 4-2940 | 4-4200 | 0.587 | 60.3 | 18.5 | -1.04 | 1.286 | 115.5 | 0.748 3.154 | | 299.4 | 547.7 | 0.794 | 5.515 | -0.50 | 0.235 | 68.8 | 255.1 | -3.4 | 0.228 |
| 4-2940 | 4-4220 | 0.596 | 61.0 | 18.7 | -1.05 | 1.286 | 116.0 | 0.751 3.164 | | 298.3 | 548.2 | 0.787 | 5.541 | -0.49 | 0.237 | 67.4 | 255.5 | -3.4 | 0.231 |
| 4-2940 | 4-4240 | 0.604 | 61.7 | 18.8 | -1.07 | 1.286 | 116.5 | 0.755 3.174 | | 297.2 | 548.6 | 0.779 | 5.569 | -0.49 | 0.238 | 65.9 | 255.9 | -3.4 | 0.234 |
| 4-2940 | 4-4260 | 0.613 | 62.5 | 19.0 | -1.08 | 1.287 | 117.0 | 0.758 3.184 | | 296.1 | 549.1 | 0.770 | 5.598 | -0.48 | 0.239 | 64.5 | 256.4 | -3.4 | 0.238 |
| 4-2940 | 4-4280 | 0.622 | 63.2 | 19.1 | -1.09 | 1.287 | 117.6 | 0.761 3.195 | | 295.0 | 549.5 | 0.762 | 5.628 | -0.48 | 0.241 | 63.2 | 256.9 | -3.4 | 0.241 |
| 4-2940 | 4-4300 | 0.632 | 64.0 | 19.3 | -1.11 | 1.288 | 118.1 | 0.765 3.206 | | 293.9 | 549.9 | 0.754 | 5.658 | -0.48 | 0.242 | 61.9 | 257.5 | -3.4 | 0.244 |
| 4-2940 | 4-4320 | 0.641 | 64.7 | 19.4 | -1.12 | 1.288 | 118.7 | 0.769 3.217 | | 292.7 | 550.3 | 0.745 | 5.690 | -0.47 | 0.244 | 60.6 | 258.2 | -3.4 | 0.248 |
| 4-2940 | 4-4340 | 0.651 | 65.5 | 19.5 | -1.13 | 1.288 | 119.2 | 0.772 3.229 | | 291.6 | 550.7 | 0.736 | 5.722 | -0.47 | 0.246 | 59.3 | 258.9 | -3.4 | 0.251 |
| 4-2940 | 4-4360 | 0.661 | 66.2 | 19.7 | -1.15 | 1.289 | 119.8 | 0.776 3.240 | | 290.4 | 551.0 | 0.726 | 5.754 | -0.47 | 0.247 | 58.1 | 259.6 | -3.4 | 0.255 |
| 4-2940 | 4-4380 | 0.671 | 67.0 | 19.8 | -1.16 | 1.289 | 120.4 | 0.780 3.252 | | 289.2 | 551.4 | 0.717 | 5.788 | -0.47 | 0.249 | 56.9 | 260.4 | -3.4 | 0.258 |
| 4-2940 | 4-4400 | 0.682 | 67.7 | 19.9 | -1.17 | 1.290 | 121.0 | 0.783 3.264 | | 288.0 | 551.7 | 0.707 | 5.822 | -0.46 | 0.251 | 55.7 | 261.2 | -3.4 | 0.262 |
| 4-2940 | 4-4420 | 0.692 | 68.5 | 20.1 | -1.18 | 1.290 | 121.6 | 0.787 3.276 | | 286.7 | 552.0 | 0.697 | 5.856 | -0.46 | 0.253 | 54.6 | 262.1 | -3.4 | 0.266 |
| 4-2940 | 4-4440 | 0.703 | 69.3 | 20.2 | -1.20 | 1.291 | 122.2 | 0.791 3.289 | | 285.5 | 552.2 | 0.686 | 5.891 | -0.46 | 0.254 | 53.5 | 262.9 | -3.4 | 0.269 |
| 4-2940 | 4-4460 | 0.714 | 70.0 | 20.3 | -1.21 | 1.291 | 122.8 | 0.795 3.301 | | 284.2 | 552.5 | 0.676 | 5.927 | -0.46 | 0.256 | 52.4 | 263.9 | -3.4 | 0.273 |
| 4-2940 | 4-4480 | 0.725 | 70.8 | 20.4 | -1.22 | 1.292 | 123.5 | 0.799 3.314 | | 282.9 | 552.8 | 0.665 | 5.963 | -0.46 | 0.258 | 51.3 | 264.8 | -3.4 | 0.277 |
| 4-2940 | 4-4500 | 0.736 | 71.5 | 20.6 | -1.23 | 1.292 | 124.1 | 0.803 3.327 | | 281.6 | 553.0 | 0.654 | 6.000 | -0.46 | 0.260 | 50.3 | 265.8 | -3.4 | 0.280 |
| 4-2940 | 4-4520 | 0.748 | 72.3 | 20.7 | -1.24 | 1.292 | 124.8 | 0.807 3.340 | | 280.3 | 553.2 | 0.643 | 6.037 | -0.46 | 0.262 | 49.3 | 266.9 | -3.4 | 0.284 |
| 4-2940 | 4-4540 | 0.760 | 73.1 | 20.8 | -1.26 | 1.293 | 125.4 | 0.812 3.353 | | 279.0 | 553.4 | 0.632 | 6.074 | -0.46 | 0.264 | 48.2 | 267.9 | -3.4 | 0.288 |
| 4-2950 | 4-3330 | 0.638 | 54.2 | 14.2 | -2.39 | 1.436 | 111.5 | 1.08410.500 | | 318.8 | 486.0 | 0.885 | --- | 1.14 | 0.699 | 157.5 | 283.6 | -2.5 | 0.653 |
| 4-2950 | 4-3350 | 0.606 | 53.6 | 13.5 | -2.57 | 1.415 | 110.5 | 1.03029.804 | | 319.7 | 488.6 | 0.894 | --- | 1.32 | 0.653 | 156.1 | 283.9 | -2.4 | 0.607 |
| 4-2950 | 4-3370 | 0.579 | 53.1 | 12.5 | -2.82 | 1.396 | 109.5 | 0.98454.983 | | 320.6 | 491.3 | 0.902 | --- | 1.56 | 0.612 | 154.6 | 284.1 | -2.3 | 0.565 |
| 4-2950 | 4-3390 | 0.555 | 52.6 | 11.3 | -3.17 | 1.381 | 108.7 | 0.94416.145 | | 321.4 | 493.8 | 0.909 | --- | 1.91 | 0.575 | 153.0 | 284.2 | -2.0 | 0.527 |
| 4-2950 | 4-3410 | 0.535 | 52.4 | 9.6 | -3.73 | 1.367 | 108.0 | 0.90910.093 | | 322.2 | 496.3 | 0.915 | --- | 2.47 | 0.541 | 151.4 | 284.2 | -1.7 | 0.493 |
| 4-2950 | 4-3430 | 0.520 | 52.6 | 6.8 | -4.76 | 1.355 | 107.3 | 0.880 7.649 | | 322.9 | 498.8 | 0.920 | --- | 3.48 | 0.511 | 149.7 | 284.2 | -1.0 | 0.462 |
| 4-2950 | 4-3450 | 0.516 | 54.1 | 0.6 | -7.20 | 1.345 | 106.7 | 0.854 6.336 | | 323.6 | 501.1 | 0.925 | --- | 5.92 | 0.483 | 148.0 | 283.9 | 0.5 | 0.434 |
| 4-2950 | 4-3470 | 0.627 | 66.7 | -25.1 | -20.57 | 1.337 | 106.2 | 0.832 5.521 | | 324.2 | 503.4 | 0.929 | --- | 19.29 | 0.457 | 146.2 | 282.0 | 8.5 | 0.422 |
| 4-2950 | 4-3490 | 0.535 | 38.7 | 49.9 | 13.08 | 1.329 | 105.8 | 0.812 4.972 | | 324.6 | 506.6 | 0.932 | --- | -14.36 | 0.434 | 144.3 | 282.7 | -12.2 | 0.392 |
| 4-2950 | 4-3510 | 0.466 | 44.0 | 28.5 | 4.08 | 1.323 | 105.4 | 0.796 4.578 | | 325.1 | 507.8 | 0.935 | --- | -5.37 | 0.413 | 142.4 | 283.2 | -6.7 | 0.363 |
| 4-2950 | 4-3530 | 0.452 | 45.2 | 23.0 | 2.01 | 1.317 | 105.1 | 0.781 4.285 | | 325.4 | 509.8 | 0.938 | --- | -3.30 | 0.394 | 140.4 | 282.8 | -5.4 | 0.342 |
| 4-2950 | 4-3550 | 0.444 | 45.6 | 20.5 | 1.09 | 1.312 | 104.8 | 0.769 4.059 | | 325.7 | 511.8 | 0.940 | --- | -2.38 | 0.377 | 138.4 | 282.2 | -4.8 | 0.324 |
| 4-2950 | 4-3570 | 0.437 | 45.8 | 19.0 | 0.57 | 1.308 | 104.6 | 0.758 3.882 | | 326.0 | 513.7 | 0.941 | --- | -1.87 | 0.361 | 136.3 | 281.5 | -4.5 | 0.307 |
| 4-2950 | 4-3590 | 0.431 | 45.9 | 18.0 | 0.24 | 1.304 | 104.4 | 0.748 3.741 | | 326.1 | 515.6 | 0.942 | --- | -1.54 | 0.346 | 134.1 | 280.8 | -4.3 | 0.292 |
| 4-2950 | 4-3610 | 0.427 | 46.0 | 17.3 | 0.00 | 1.301 | 104.3 | 0.740 3.626 | | 326.2 | 517.4 | 0.943 | --- | -1.31 | 0.333 | 131.9 | 279.9 | -4.2 | 0.279 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2950 | 4-3630 | 0.423 | 46.2 | 16.8 | -0.17 | 1.298 | 104.2 | 0.733 | 3.532 | 326.2 | 519.1 | 0.944 | --- | -1.14 | 0.321 | 129.7 | 278.9 | -4.1 | 0.266 |
| 4-2950 | 4-3650 | 0.421 | 46.3 | 16.5 | -0.30 | 1.296 | 104.1 | 0.727 | 3.455 | 326.2 | 520.7 | 0.944 | --- | -1.01 | 0.310 | 127.4 | 277.9 | -4.0 | 0.255 |
| 4-2950 | 4-3670 | 0.419 | 46.6 | 16.2 | -0.41 | 1.293 | 104.1 | 0.722 | 3.391 | 326.1 | 522.3 | 0.944 | --- | -0.91 | 0.300 | 125.1 | 276.7 | -4.0 | 0.245 |
| 4-2950 | 4-3690 | 0.418 | 46.8 | 16.0 | -0.49 | 1.292 | 104.1 | 0.717 | 3.337 | 325.9 | 523.8 | 0.944 | --- | -0.83 | 0.291 | 122.8 | 275.5 | -3.9 | 0.237 |
| 4-2950 | 4-3710 | 0.417 | 47.1 | 15.9 | -0.57 | 1.290 | 104.2 | 0.714 | 3.292 | 325.7 | 525.2 | 0.943 | --- | -0.76 | 0.283 | 120.4 | 274.3 | -3.9 | 0.229 |
| 4-2950 | 4-3730 | 0.417 | 47.4 | 15.8 | -0.63 | 1.289 | 104.3 | 0.711 | 3.255 | 325.5 | 526.6 | 0.942 | --- | -0.70 | 0.276 | 118.1 | 273.0 | -3.8 | 0.222 |
| 4-2950 | 4-3750 | 0.417 | 47.8 | 15.7 | -0.68 | 1.288 | 104.4 | 0.708 | 3.223 | 325.2 | 527.9 | 0.941 | --- | -0.65 | 0.269 | 115.7 | 271.6 | -3.8 | 0.216 |
| 4-2950 | 4-3770 | 0.418 | 48.2 | 15.7 | -0.72 | 1.287 | 104.5 | 0.706 | 3.197 | 324.8 | 529.2 | 0.939 | --- | -0.61 | 0.264 | 113.4 | 270.3 | -3.8 | 0.211 |
| 4-2950 | 4-3790 | 0.419 | 48.7 | 15.7 | -0.76 | 1.286 | 104.6 | 0.705 | 3.176 | 324.4 | 530.4 | 0.938 | --- | -0.58 | 0.258 | 111.0 | 268.9 | -3.7 | 0.206 |
| 4-2950 | 4-3810 | 0.421 | 49.2 | 15.7 | -0.80 | 1.285 | 104.8 | 0.704 | 3.158 | 323.9 | 531.6 | 0.936 | --- | -0.54 | 0.254 | 108.7 | 267.6 | -3.7 | 0.203 |
| 4-2950 | 4-3830 | 0.423 | 49.7 | 15.8 | -0.83 | 1.285 | 105.0 | 0.703 | 3.144 | 323.4 | 532.7 | 0.934 | --- | -0.52 | 0.250 | 106.3 | 266.2 | -3.7 | 0.200 |
| 4-2950 | 4-3850 | 0.426 | 50.3 | 15.9 | -0.86 | 1.284 | 105.2 | 0.703 | 3.132 | 322.9 | 533.8 | 0.931 | --- | -0.49 | 0.247 | 104.1 | 265.0 | -3.7 | 0.198 |
| 4-2950 | 4-3870 | 0.429 | 50.9 | 16.0 | -0.89 | 1.284 | 105.4 | 0.703 | 3.123 | 322.3 | 534.9 | 0.929 | --- | -0.47 | 0.244 | 101.8 | 263.7 | -3.6 | 0.196 |
| 4-2950 | 4-3890 | 0.432 | 51.5 | 16.1 | -0.91 | 1.283 | 105.7 | 0.703 | 3.117 | 321.7 | 535.9 | 0.926 | --- | -0.45 | 0.241 | 99.6 | 262.6 | -3.6 | 0.195 |
| 4-2950 | 4-3910 | 0.436 | 52.2 | 16.2 | -0.93 | 1.283 | 105.9 | 0.703 | 3.112 | 321.1 | 536.9 | 0.923 | --- | -0.43 | 0.239 | 97.4 | 261.5 | -3.6 | 0.194 |
| 4-2950 | 4-3930 | 0.440 | 52.8 | 16.3 | -0.95 | 1.283 | 106.2 | 0.704 | 3.109 | 320.4 | 537.8 | 0.920 | --- | -0.42 | 0.238 | 95.2 | 260.5 | -3.5 | 0.194 |
| 4-2950 | 4-3950 | 0.444 | 53.5 | 16.5 | -0.97 | 1.283 | 106.5 | 0.705 | 3.108 | 319.7 | 538.7 | 0.916 | --- | -0.40 | 0.236 | 93.1 | 259.6 | -3.5 | 0.194 |
| 4-2950 | 4-3970 | 0.448 | 54.2 | 16.6 | -0.99 | 1.283 | 106.8 | 0.706 | 3.108 | 318.9 | 539.5 | 0.913 | --- | -0.39 | 0.235 | 91.1 | 258.8 | -3.5 | 0.195 |
| 4-2950 | 4-3990 | 0.453 | 55.0 | 16.8 | -1.00 | 1.283 | 107.2 | 0.708 | 3.109 | 318.2 | 540.4 | 0.909 | 5.309 | -0.38 | 0.235 | 89.1 | 258.1 | -3.5 | 0.196 |
| 4-2950 | 4-4010 | 0.458 | 55.7 | 16.9 | -1.02 | 1.283 | 107.5 | 0.709 | 3.111 | 317.4 | 541.2 | 0.905 | 5.318 | -0.37 | 0.234 | 87.2 | 257.5 | -3.4 | 0.197 |
| 4-2950 | 4-4030 | 0.464 | 56.5 | 17.1 | -1.03 | 1.283 | 107.9 | 0.711 | 3.115 | 316.5 | 541.9 | 0.901 | 5.329 | -0.35 | 0.234 | 85.3 | 256.9 | -3.4 | 0.198 |
| 4-2950 | 4-4050 | 0.469 | 57.2 | 17.3 | -1.04 | 1.284 | 108.2 | 0.713 | 3.119 | 315.7 | 542.7 | 0.896 | 5.342 | -0.35 | 0.234 | 83.4 | 256.5 | -3.4 | 0.200 |
| 4-2950 | 4-4070 | 0.475 | 58.0 | 17.4 | -1.06 | 1.284 | 108.6 | 0.715 | 3.124 | 314.8 | 543.4 | 0.891 | 5.357 | -0.34 | 0.234 | 81.6 | 256.2 | -3.4 | 0.202 |
| 4-2950 | 4-4090 | 0.481 | 58.8 | 17.6 | -1.07 | 1.284 | 109.0 | 0.717 | 3.130 | 313.9 | 544.1 | 0.886 | 5.374 | -0.33 | 0.235 | 79.9 | 256.0 | -3.3 | 0.204 |
| 4-2950 | 4-4110 | 0.488 | 59.6 | 17.8 | -1.08 | 1.284 | 109.4 | 0.719 | 3.137 | 313.0 | 544.7 | 0.881 | 5.392 | -0.32 | 0.235 | 78.2 | 255.8 | -3.3 | 0.206 |
| 4-2950 | 4-4130 | 0.494 | 60.4 | 17.9 | -1.09 | 1.285 | 109.9 | 0.721 | 3.144 | 312.1 | 545.3 | 0.876 | 5.412 | -0.32 | 0.236 | 76.6 | 255.8 | -3.3 | 0.209 |
| 4-2950 | 4-4150 | 0.501 | 61.2 | 18.1 | -1.10 | 1.285 | 110.3 | 0.724 | 3.152 | 311.1 | 545.9 | 0.870 | 5.433 | -0.31 | 0.237 | 75.0 | 255.8 | -3.3 | 0.211 |
| 4-2950 | 4-4170 | 0.508 | 62.0 | 18.3 | -1.11 | 1.285 | 110.7 | 0.726 | 3.160 | 310.1 | 546.5 | 0.864 | 5.455 | -0.30 | 0.238 | 73.5 | 255.9 | -3.3 | 0.214 |
| 4-2950 | 4-4190 | 0.516 | 62.8 | 18.4 | -1.12 | 1.285 | 111.2 | 0.729 | 3.169 | 309.1 | 547.1 | 0.858 | 5.479 | -0.30 | 0.239 | 72.0 | 256.1 | -3.3 | 0.217 |
| 4-2950 | 4-4210 | 0.523 | 63.6 | 18.6 | -1.13 | 1.286 | 111.6 | 0.732 | 3.178 | 308.1 | 547.6 | 0.852 | 5.504 | -0.29 | 0.240 | 70.5 | 256.3 | -3.3 | 0.220 |
| 4-2950 | 4-4230 | 0.531 | 64.4 | 18.8 | -1.14 | 1.286 | 112.1 | 0.735 | 3.187 | 307.1 | 548.1 | 0.845 | 5.529 | -0.29 | 0.241 | 69.1 | 256.7 | -3.3 | 0.223 |
| 4-2950 | 4-4250 | 0.539 | 65.3 | 18.9 | -1.15 | 1.287 | 112.6 | 0.738 | 3.197 | 306.0 | 548.6 | 0.839 | 5.556 | -0.28 | 0.242 | 67.7 | 257.0 | -3.3 | 0.225 |
| 4-2950 | 4-4270 | 0.547 | 66.1 | 19.1 | -1.16 | 1.287 | 113.1 | 0.741 | 3.207 | 304.9 | 549.1 | 0.832 | 5.583 | -0.28 | 0.244 | 66.4 | 257.5 | -3.3 | 0.229 |
| 4-2950 | 4-4290 | 0.555 | 66.9 | 19.2 | -1.17 | 1.287 | 113.6 | 0.744 | 3.218 | 303.9 | 549.6 | 0.824 | 5.611 | -0.28 | 0.245 | 65.1 | 258.0 | -3.3 | 0.232 |
| 4-2950 | 4-4310 | 0.564 | 67.7 | 19.4 | -1.17 | 1.288 | 114.1 | 0.747 | 3.229 | 302.8 | 550.0 | 0.817 | 5.641 | -0.27 | 0.247 | 63.8 | 258.5 | -3.3 | 0.235 |
| 4-2950 | 4-4330 | 0.573 | 68.6 | 19.5 | -1.18 | 1.288 | 114.6 | 0.750 | 3.240 | 301.6 | 550.4 | 0.809 | 5.670 | -0.27 | 0.248 | 62.6 | 259.1 | -3.3 | 0.238 |
| 4-2950 | 4-4350 | 0.582 | 69.4 | 19.7 | -1.19 | 1.289 | 115.2 | 0.754 | 3.251 | 300.5 | 550.8 | 0.801 | 5.701 | -0.27 | 0.250 | 61.4 | 259.8 | -3.3 | 0.241 |
| 4-2950 | 4-4370 | 0.591 | 70.2 | 19.8 | -1.20 | 1.289 | 115.7 | 0.757 | 3.263 | 299.3 | 551.2 | 0.793 | 5.732 | -0.27 | 0.251 | 60.2 | 260.5 | -3.3 | 0.244 |
| 4-2950 | 4-4390 | 0.600 | 71.0 | 20.0 | -1.21 | 1.289 | 116.3 | 0.760 | 3.274 | 298.2 | 551.6 | 0.785 | 5.764 | -0.26 | 0.253 | 59.1 | 261.2 | -3.3 | 0.248 |
| 4-2950 | 4-4410 | 0.610 | 71.9 | 20.1 | -1.21 | 1.290 | 116.8 | 0.764 | 3.286 | 297.0 | 551.9 | 0.776 | 5.796 | -0.26 | 0.255 | 58.0 | 262.0 | -3.3 | 0.251 |
| 4-2950 | 4-4430 | 0.619 | 72.7 | 20.2 | -1.22 | 1.290 | 117.4 | 0.767 | 3.298 | 295.8 | 552.3 | 0.767 | 5.830 | -0.26 | 0.256 | 56.9 | 262.8 | -3.3 | 0.254 |
| 4-2950 | 4-4450 | 0.629 | 73.5 | 20.3 | -1.23 | 1.291 | 118.0 | 0.771 | 3.310 | 294.6 | 552.6 | 0.758 | 5.863 | -0.26 | 0.258 | 55.8 | 263.7 | -3.3 | 0.258 |
| 4-2950 | 4-4470 | 0.639 | 74.3 | 20.5 | -1.23 | 1.291 | 118.6 | 0.775 | 3.323 | 293.3 | 552.9 | 0.748 | 5.897 | -0.26 | 0.260 | 54.8 | 264.6 | -3.3 | 0.261 |
| 4-2950 | 4-4490 | 0.650 | 75.1 | 20.6 | -1.24 | 1.292 | 119.2 | 0.778 | 3.335 | 292.1 | 553.2 | 0.739 | 5.932 | -0.26 | 0.262 | 53.8 | 265.5 | -3.3 | 0.265 |
| 4-2950 | 4-4510 | 0.660 | 76.0 | 20.7 | -1.25 | 1.292 | 119.8 | 0.782 | 3.348 | 290.8 | 553.4 | 0.729 | 5.967 | -0.25 | 0.263 | 52.8 | 266.5 | -3.3 | 0.268 |
| 4-2950 | 4-4530 | 0.671 | 76.8 | 20.8 | -1.25 | 1.292 | 120.4 | 0.786 | 3.361 | 289.6 | 553.7 | 0.719 | 6.003 | -0.25 | 0.265 | 51.8 | 267.4 | -3.3 | 0.272 |
| 4-2950 | 4-4550 | 0.682 | 77.6 | 20.9 | -1.26 | 1.293 | 121.0 | 0.790 | 3.374 | 288.3 | 553.9 | 0.709 | 6.039 | -0.25 | 0.267 | 50.8 | 268.5 | -3.3 | 0.275 |
| 4-2960 | 4-3320 | 0.615 | 56.4 | 16.6 | -1.39 | 1.459 | 108.6 | 1.150 | -6.148 | 325.3 | 482.1 | 0.920 | --- | 0.09 | 0.746 | 158.2 | 284.5 | -2.9 | 0.696 |
| 4-2960 | 4-3340 | 0.580 | 55.4 | 16.2 | -1.40 | 1.434 | 107.5 | 1.084 | 11.104 | 326.3 | 484.9 | 0.928 | --- | 0.10 | 0.696 | 156.8 | 284.8 | -2.9 | 0.645 |
| 4-2960 | 4-3360 | 0.549 | 54.4 | 15.9 | -1.41 | 1.413 | 106.6 | 1.028 | 33.912 | 327.4 | 487.6 | 0.935 | --- | 0.11 | 0.650 | 155.4 | 285.1 | -2.9 | 0.599 |
| 4-2960 | 4-3380 | 0.523 | 53.5 | 15.5 | -1.42 | 1.395 | 105.7 | 0.980 | 46.867 | 328.3 | 490.3 | 0.942 | --- | 0.12 | 0.609 | 153.9 | 285.3 | -2.9 | 0.557 |
| 4-2960 | 4-3400 | 0.500 | 52.6 | 15.1 | -1.43 | 1.379 | 104.9 | 0.939 | 15.547 | 329.2 | 492.9 | 0.947 | --- | 0.13 | 0.573 | 152.3 | 285.4 | -2.9 | 0.520 |
| 4-2960 | 4-3420 | 0.480 | 51.7 | 14.7 | -1.45 | 1.366 | 104.2 | 0.904 | 9.920 | 330.1 | 495.5 | 0.952 | --- | 0.15 | 0.539 | 150.7 | 285.5 | -2.9 | 0.486 |
| 4-2960 | 4-3440 | 0.462 | 50.9 | 14.3 | -1.47 | 1.355 | 103.6 | 0.874 | 7.581 | 330.8 | 498.0 | 0.957 | --- | 0.17 | 0.509 | 149.1 | 285.4 | -2.9 | 0.455 |
| 4-2960 | 4-3460 | 0.448 | 50.2 | 13.9 | -1.49 | 1.345 | 103.0 | 0.848 | 6.307 | 331.5 | 500.4 | 0.960 | --- | 0.19 | 0.482 | 147.3 | 285.3 | -2.8 | 0.427 |
| 4-2960 | 4-3480 | 0.435 | 49.5 | 13.5 | -1.53 | 1.336 | 102.6 | 0.825 | 5.512 | 332.2 | 502.8 | 0.964 | --- | 0.23 | 0.457 | 145.5 | 285.1 | -2.8 | 0.401 |
| 4-2960 | 4-3500 | 0.424 | 49.0 | 13.1 | -1.58 | 1.329 | 102.1 | 0.806 | 4.972 | 332.7 | 505.0 | 0.966 | --- | 0.28 | 0.434 | 143.7 | 284.8 | -2.8 | 0.378 |
| 4-2960 | 4-3520 | 0.414 | 48.6 | 12.6 | -1.66 | 1.323 | 101.8 | 0.789 | 4.585 | 333.2 | 507.2 | 0.969 | --- | 0.35 | 0.413 | 141.7 | 284.4 | -2.7 | 0.357 |
| 4-2960 | 4-3540 | 0.406 | 48.2 | 12.0 | -1.80 | 1.317 | 101.5 | 0.774 | 4.295 | 333.6 | 509.3 | 0.970 | --- | 0.49 | 0.394 | 139.8 | 283.9 | -2.6 | 0.337 |
| 4-2960 | 4-3560 | 0.400 | 48.2 | 10.8 | -2.12 | 1.312 | 101.2 | 0.761 | 4.073 | 333.9 | 511.3 | 0.972 | --- | 0.81 | 0.377 | 137.7 | 283.4 | -2.3 | 0.319 |
| 4-2960 | 4-3580 | 0.398 | 49.4 | 6.1 | -3.62 | 1.308 | 101.0 | 0.750 | 3.897 | 334.2 | 513.3 | 0.973 | --- | 2.31 | 0.362 | 135.7 | 282.6 | -1.1 | 0.303 |
| 4-2960 | 4-3600 | 0.388 | 44.3 | 21.9 | 1.46 | 1.304 | 100.9 | 0.741 | 3.757 | 334.4 | 515.1 | 0.974 | --- | -2.77 | 0.347 | 133.5 | 281.9 | -5.4 | 0.289 |
| 4-2960 | 4-3620 | 0.383 | 46.0 | 15.8 | -0.44 | 1.301 | 100.8 | 0.732 | 3.644 | 334.5 | 516.9 | 0.975 | --- | -0.87 | 0.334 | 131.4 | 281.1 | -3.8 | 0.275 |
| 4-2960 | 4-3640 | 0.380 | 46.3 | 14.6 | -0.79 | 1.298 | 100.7 | 0.725 | 3.550 | 334.5 | 518.6 | 0.975 | --- | -0.52 | 0.323 | 129.1 | 280.1 | -3.5 | 0.263 |
| 4-2960 | 4-3660 | 0.377 | 46.5 | 14.2 | -0.94 | 1.296 | 100.6 | 0.719 | 3.473 | 334.5 | 520.3 | 0.975 | --- | -0.37 | 0.312 | 126.9 | 279.1 | -3.4 | 0.252 |
| 4-2960 | 4-3680 | 0.375 | 46.7 | 13.9 | -1.02 | 1.294 | 100.6 | 0.714 | 3.410 | 334.4 | 521.9 | 0.975 | --- | -0.29 | 0.302 | 124.6 | 278.0 | -3.3 | 0.242 |
| 4-2960 | 4-3700 | 0.374 | 46.9 | 13.8 | -1.07 | 1.292 | 100.6 | 0.710 | 3.356 | 334.3 | 523.4 | 0.975 | --- | -0.23 | 0.293 | 122.3 | 276.8 | -3.3 | 0.233 |
| 4-2960 | 4-3720 | 0.373 | 47.2 | 13.7 | -1.11 | 1.290 | 100.7 | 0.706 | 3.312 | 334.1 | 524.9 | 0.974 | --- | -0.20 | 0.286 | 120.0 | 275.5 | -3.3 | 0.225 |
| 4-2960 | 4-3740 | 0.373 | 47.6 | 13.7 | -1.14 | 1.289 | 100.8 | 0.703 | 3.275 | 333.8 | 526.3 | 0.974 | --- | -0.17 | 0.279 | 117.7 | 274.2 | -3.3 | 0.219 |
| 4-2960 | 4-3760 | 0.373 | 48.0 | 13.8 | -1.16 | 1.288 | 100.9 | 0.700 | 3.243 | 333.5 | 527.6 | 0.973 | --- | -0.15 | 0.272 | 115.4 | 272.9 | -3.2 | 0.213 |
| 4-2960 | 4-3780 | 0.374 | 48.4 | 13.9 | -1.17 | 1.287 | 101.0 | 0.698 | 3.218 | 333.2 | 528.9 | 0.972 | --- | -0.14 | 0.267 | 113.1 | 271.6 | -3.2 | 0.207 |
| 4-2960 | 4-3800 | 0.375 | 48.9 | 14.0 | -1.19 | 1.286 | 101.1 | 0.696 | 3.196 | 332.8 | 530.1 | 0.971 | --- | -0.12 | 0.262 | 110.8 | 270.2 | -3.2 | 0.203 |
| 4-2960 | 4-3820 | 0.376 | 49.5 | 14.1 | -1.20 | 1.286 | 101.3 | 0.695 | 3.179 | 332.3 | 531.3 | 0.969 | --- | -0.11 | 0.257 | 108.5 | 268.9 | -3.2 | 0.199 |
| 4-2960 | 4-3840 | 0.378 | 50.1 | 14.2 | -1.21 | 1.285 | 101.5 | 0.694 | 3.164 | 331.9 | 532.5 | 0.967 | --- | -0.11 | 0.254 | 106.3 | 267.6 | -3.2 | 0.196 |
| 4-2960 | 4-3860 | 0.380 | 50.7 | 14.4 | -1.21 | 1.285 | 101.7 | 0.694 | 3.153 | 331.3 | 533.6 | 0.966 | --- | -0.10 | 0.250 | 104.1 | 266.3 | -3.2 | 0.194 |
| 4-2960 | 4-3880 | 0.382 | 51.4 | 14.6 | -1.22 | 1.284 | 101.9 | 0.693 | 3.144 | 330.8 | 534.6 | 0.964 | --- | -0.09 | 0.248 | 101.9 | 265.1 | -3.2 | 0.192 |
| 4-2960 | 4-3900 | 0.385 | 52.1 | 14.8 | -1.23 | 1.284 | 102.2 | 0.694 | 3.138 | 330.2 | 535.6 | 0.962 | --- | -0.09 | 0.245 | 99.7 | 263.9 | -3.2 | 0.191 |
| 4-2960 | 4-3920 | 0.388 | 52.8 | 15.0 | -1.23 | 1.284 | 102.4 | 0.694 | 3.133 | 329.5 | 536.6 | 0.959 | --- | -0.08 | 0.243 | 97.6 | 262.9 | -3.1 | 0.190 |
| 4-2960 | 4-3940 | 0.391 | 53.6 | 15.2 | -1.24 | 1.284 | 102.7 | 0.694 | 3.130 | 328.9 | 537.5 | 0.957 | --- | -0.08 | 0.242 | 95.6 | 261.9 | -3.1 | 0.190 |
| 4-2960 | 4-3960 | 0.395 | 54.4 | 15.4 | -1.24 | 1.284 | 103.0 | 0.695 | 3.129 | 328.2 | 538.4 | 0.954 | --- | -0.07 | 0.240 | 93.5 | 261.0 | -3.1 | 0.190 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2960 | 4-3980 | 0.399 | 55.2 | 15.6 | -1.25 | 1.284 | 103.3 | 0.696 | 3.129 | 327.5 | 539.3 | 0.951 | --- | -0.07 | 0.239 | 91.6 | 260.1 | -3.1 | 0.190 |
| 4-2960 | 4-4000 | 0.403 | 56.0 | 15.8 | -1.25 | 1.284 | 103.6 | 0.697 | 3.130 | 326.7 | 540.2 | 0.948 | 5.312 | -0.07 | 0.239 | 89.6 | 259.4 | -3.1 | 0.191 |
| 4-2960 | 4-4020 | 0.407 | 56.9 | 16.0 | -1.25 | 1.284 | 103.9 | 0.698 | 3.133 | 325.9 | 541.0 | 0.945 | 5.320 | -0.06 | 0.238 | 87.8 | 258.8 | -3.1 | 0.192 |
| 4-2960 | 4-4040 | 0.412 | 57.7 | 16.2 | -1.26 | 1.284 | 104.3 | 0.700 | 3.136 | 325.1 | 541.7 | 0.941 | 5.331 | -0.06 | 0.238 | 86.0 | 258.2 | -3.1 | 0.193 |
| 4-2960 | 4-4060 | 0.417 | 58.6 | 16.5 | -1.26 | 1.284 | 104.6 | 0.701 | 3.140 | 324.3 | 542.5 | 0.938 | 5.343 | -0.06 | 0.238 | 84.2 | 257.8 | -3.1 | 0.195 |
| 4-2960 | 4-4080 | 0.422 | 59.5 | 16.7 | -1.26 | 1.284 | 105.0 | 0.703 | 3.145 | 323.4 | 543.2 | 0.934 | 5.357 | -0.06 | 0.238 | 82.5 | 257.5 | -3.1 | 0.197 |
| 4-2960 | 4-4100 | 0.427 | 60.4 | 16.9 | -1.26 | 1.284 | 105.4 | 0.705 | 3.151 | 322.5 | 543.9 | 0.930 | 5.373 | -0.06 | 0.239 | 80.8 | 257.2 | -3.1 | 0.199 |
| 4-2960 | 4-4120 | 0.433 | 61.3 | 17.1 | -1.27 | 1.285 | 105.8 | 0.707 | 3.158 | 321.6 | 544.6 | 0.926 | 5.390 | -0.05 | 0.239 | 79.2 | 257.1 | -3.1 | 0.201 |
| 4-2960 | 4-4140 | 0.439 | 62.2 | 17.4 | -1.27 | 1.285 | 106.2 | 0.709 | 3.165 | 320.7 | 545.2 | 0.921 | 5.409 | -0.05 | 0.240 | 77.6 | 257.0 | -3.0 | 0.203 |
| 4-2960 | 4-4160 | 0.445 | 63.1 | 17.6 | -1.27 | 1.285 | 106.6 | 0.711 | 3.173 | 319.8 | 545.9 | 0.917 | 5.429 | -0.05 | 0.241 | 76.1 | 257.0 | -3.0 | 0.205 |
| 4-2960 | 4-4180 | 0.451 | 64.1 | 17.8 | -1.27 | 1.286 | 107.0 | 0.713 | 3.181 | 318.8 | 546.5 | 0.912 | 5.450 | -0.05 | 0.242 | 74.6 | 257.1 | -3.0 | 0.208 |
| 4-2960 | 4-4200 | 0.457 | 65.0 | 18.0 | -1.27 | 1.286 | 107.4 | 0.716 | 3.190 | 317.8 | 547.0 | 0.907 | 5.473 | -0.05 | 0.243 | 73.2 | 257.2 | -3.0 | 0.210 |
| 4-2960 | 4-4220 | 0.464 | 65.9 | 18.2 | -1.27 | 1.286 | 107.9 | 0.718 | 3.199 | 316.8 | 547.6 | 0.902 | 5.496 | -0.05 | 0.244 | 71.8 | 257.4 | -3.0 | 0.213 |
| 4-2960 | 4-4240 | 0.471 | 66.9 | 18.4 | -1.28 | 1.287 | 108.3 | 0.721 | 3.208 | 315.8 | 548.1 | 0.896 | 5.521 | -0.05 | 0.245 | 70.4 | 257.7 | -3.0 | 0.215 |
| 4-2960 | 4-4260 | 0.478 | 67.8 | 18.6 | -1.28 | 1.287 | 108.8 | 0.723 | 3.218 | 314.8 | 548.6 | 0.891 | 5.546 | -0.05 | 0.246 | 69.1 | 258.1 | -3.0 | 0.218 |
| 4-2960 | 4-4280 | 0.485 | 68.7 | 18.8 | -1.28 | 1.287 | 109.3 | 0.726 | 3.228 | 313.7 | 549.1 | 0.885 | 5.572 | -0.04 | 0.247 | 67.9 | 258.5 | -3.1 | 0.221 |
| 4-2960 | 4-4300 | 0.493 | 69.7 | 18.9 | -1.28 | 1.288 | 109.7 | 0.729 | 3.239 | 312.7 | 549.6 | 0.879 | 5.599 | -0.04 | 0.249 | 66.6 | 259.0 | -3.1 | 0.224 |
| 4-2960 | 4-4320 | 0.501 | 70.6 | 19.1 | -1.28 | 1.288 | 110.2 | 0.732 | 3.250 | 311.6 | 550.1 | 0.872 | 5.627 | -0.04 | 0.250 | 65.4 | 259.5 | -3.1 | 0.227 |
| 4-2960 | 4-4340 | 0.509 | 71.5 | 19.3 | -1.28 | 1.289 | 110.7 | 0.735 | 3.261 | 310.5 | 550.5 | 0.866 | 5.656 | -0.04 | 0.252 | 64.2 | 260.1 | -3.1 | 0.230 |
| 4-2960 | 4-4360 | 0.517 | 72.5 | 19.5 | -1.28 | 1.289 | 111.2 | 0.737 | 3.272 | 309.4 | 550.9 | 0.859 | 5.685 | -0.04 | 0.253 | 63.1 | 260.7 | -3.1 | 0.233 |
| 4-2960 | 4-4380 | 0.525 | 73.4 | 19.6 | -1.29 | 1.289 | 111.7 | 0.741 | 3.283 | 308.2 | 551.4 | 0.852 | 5.715 | -0.04 | 0.255 | 62.0 | 261.4 | -3.1 | 0.236 |
| 4-2960 | 4-4400 | 0.534 | 74.3 | 19.8 | -1.29 | 1.290 | 112.3 | 0.744 | 3.295 | 307.1 | 551.8 | 0.845 | 5.745 | -0.04 | 0.256 | 60.9 | 262.1 | -3.1 | 0.239 |
| 4-2960 | 4-4420 | 0.542 | 75.2 | 19.9 | -1.29 | 1.290 | 112.8 | 0.747 | 3.307 | 306.0 | 552.1 | 0.837 | 5.777 | -0.04 | 0.258 | 59.8 | 262.8 | -3.1 | 0.242 |
| 4-2960 | 4-4440 | 0.551 | 76.1 | 20.0 | -1.29 | 1.291 | 113.3 | 0.750 | 3.319 | 304.8 | 552.5 | 0.830 | 5.808 | -0.04 | 0.260 | 58.8 | 263.6 | -3.1 | 0.245 |
| 4-2960 | 4-4460 | 0.560 | 77.1 | 20.2 | -1.29 | 1.291 | 113.9 | 0.753 | 3.331 | 303.6 | 552.8 | 0.822 | 5.841 | -0.04 | 0.261 | 57.8 | 264.4 | -3.1 | 0.248 |
| 4-2960 | 4-4480 | 0.570 | 78.0 | 20.3 | -1.29 | 1.292 | 114.4 | 0.757 | 3.343 | 302.4 | 553.2 | 0.813 | 5.873 | -0.04 | 0.263 | 56.8 | 265.3 | -3.1 | 0.251 |
| 4-2960 | 4-4500 | 0.579 | 78.9 | 20.4 | -1.29 | 1.292 | 115.0 | 0.760 | 3.356 | 301.2 | 553.5 | 0.805 | 5.907 | -0.04 | 0.265 | 55.8 | 266.2 | -3.1 | 0.255 |
| 4-2960 | 4-4520 | 0.589 | 79.8 | 20.5 | -1.29 | 1.292 | 115.6 | 0.764 | 3.368 | 300.0 | 553.8 | 0.796 | 5.940 | -0.04 | 0.267 | 54.9 | 267.1 | -3.1 | 0.258 |
| 4-2960 | 4-4540 | 0.598 | 80.7 | 20.6 | -1.30 | 1.293 | 116.2 | 0.767 | 3.381 | 298.7 | 554.1 | 0.788 | 5.975 | -0.04 | 0.268 | 53.9 | 268.1 | -3.1 | 0.261 |
| 4-2960 | 4-4560 | 0.608 | 81.5 | 20.8 | -1.30 | 1.293 | 116.8 | 0.771 | 3.394 | 297.5 | 554.3 | 0.779 | 6.009 | -0.04 | 0.270 | 53.0 | 269.1 | -3.1 | 0.264 |
| 4-2970 | 4-3290 | 0.642 | 58.9 | 18.0 | -1.04 | 1.520 | 106.7 | 1.322 | -2.927 | 330.8 | 475.4 | 0.943 | --- | -0.31 | 0.858 | 160.1 | 284.9 | -3.1 | 0.804 |
| 4-2970 | 4-3310 | 0.597 | 57.7 | 17.6 | -1.02 | 1.485 | 105.5 | 1.226 | -4.208 | 332.0 | 478.4 | 0.951 | --- | -0.32 | 0.795 | 158.8 | 285.3 | -3.1 | 0.741 |
| 4-2970 | 4-3330 | 0.558 | 56.4 | 17.3 | -1.00 | 1.456 | 104.3 | 1.146 | -6.570 | 333.2 | 481.3 | 0.958 | --- | -0.34 | 0.739 | 157.5 | 285.6 | -3.1 | 0.685 |
| 4-2970 | 4-3350 | 0.525 | 55.1 | 16.9 | -0.98 | 1.431 | 103.3 | 1.079 | 12.284 | 334.3 | 484.2 | 0.964 | --- | -0.36 | 0.689 | 156.2 | 285.9 | -3.1 | 0.634 |
| 4-2970 | 4-3370 | 0.497 | 53.8 | 16.5 | -0.96 | 1.411 | 102.4 | 1.022 | 44.841 | 335.4 | 487.0 | 0.970 | --- | -0.38 | 0.644 | 154.7 | 286.2 | -3.1 | 0.589 |
| 4-2970 | 4-3390 | 0.472 | 52.5 | 16.2 | -0.94 | 1.393 | 101.6 | 0.973 | 36.624 | 336.4 | 489.8 | 0.975 | --- | -0.40 | 0.604 | 153.2 | 286.3 | -3.1 | 0.548 |
| 4-2970 | 4-3410 | 0.451 | 51.3 | 15.9 | -0.91 | 1.378 | 100.9 | 0.932 | 14.439 | 337.4 | 492.5 | 0.979 | --- | -0.43 | 0.568 | 151.7 | 286.4 | -3.2 | 0.512 |
| 4-2970 | 4-3430 | 0.433 | 50.1 | 15.6 | -0.87 | 1.365 | 100.2 | 0.897 | 9.536 | 338.3 | 495.1 | 0.983 | --- | -0.46 | 0.535 | 150.1 | 286.4 | -3.2 | 0.478 |
| 4-2970 | 4-3450 | 0.418 | 49.0 | 15.4 | -0.84 | 1.354 | 99.7 | 0.867 | 7.394 | 339.1 | 497.6 | 0.986 | --- | -0.49 | 0.506 | 148.4 | 286.4 | -3.2 | 0.448 |
| 4-2970 | 4-3470 | 0.404 | 48.0 | 15.2 | -0.79 | 1.344 | 99.2 | 0.841 | 6.202 | 339.9 | 500.1 | 0.988 | --- | -0.53 | 0.479 | 146.6 | 286.2 | -3.3 | 0.420 |
| 4-2970 | 4-3490 | 0.392 | 47.1 | 15.0 | -0.74 | 1.336 | 98.7 | 0.818 | 5.448 | 340.6 | 502.5 | 0.991 | --- | -0.58 | 0.454 | 144.8 | 286.0 | -3.3 | 0.395 |
| 4-2970 | 4-3510 | 0.382 | 46.2 | 15.0 | -0.68 | 1.328 | 98.4 | 0.799 | 4.931 | 341.2 | 504.8 | 0.992 | --- | -0.64 | 0.432 | 143.0 | 285.7 | -3.4 | 0.372 |
| 4-2970 | 4-3530 | 0.374 | 45.5 | 15.0 | -0.61 | 1.322 | 98.0 | 0.782 | 4.559 | 341.7 | 507.0 | 0.994 | --- | -0.71 | 0.411 | 141.1 | 285.3 | -3.5 | 0.351 |
| 4-2970 | 4-3550 | 0.366 | 44.8 | 15.1 | -0.51 | 1.317 | 97.8 | 0.767 | 4.279 | 342.1 | 509.1 | 0.995 | --- | -0.80 | 0.393 | 139.1 | 284.8 | -3.6 | 0.332 |
| 4-2970 | 4-3570 | 0.360 | 44.2 | 15.3 | -0.39 | 1.312 | 97.5 | 0.755 | 4.063 | 342.5 | 511.2 | 0.996 | --- | -0.92 | 0.376 | 137.1 | 284.2 | -3.7 | 0.315 |
| 4-2970 | 4-3590 | 0.355 | 43.6 | 15.8 | -0.23 | 1.308 | 97.4 | 0.744 | 3.893 | 342.7 | 513.1 | 0.997 | --- | -1.08 | 0.361 | 135.0 | 283.5 | -3.9 | 0.299 |
| 4-2970 | 4-3610 | 0.350 | 43.1 | 16.5 | -0.00 | 1.304 | 97.2 | 0.734 | 3.756 | 342.9 | 515.0 | 0.998 | --- | -1.30 | 0.347 | 132.9 | 282.8 | -4.2 | 0.284 |
| 4-2970 | 4-3630 | 0.347 | 42.5 | 17.7 | 0.35 | 1.301 | 97.1 | 0.726 | 3.646 | 343.1 | 516.8 | 0.998 | --- | -1.65 | 0.334 | 130.7 | 281.9 | -4.5 | 0.271 |
| 4-2970 | 4-3650 | 0.344 | 41.8 | 19.8 | 0.95 | 1.298 | 97.1 | 0.719 | 3.555 | 343.1 | 518.5 | 0.998 | --- | -2.25 | 0.323 | 128.5 | 280.9 | -5.2 | 0.259 |
| 4-2970 | 4-3670 | 0.344 | 40.3 | 24.5 | 2.23 | 1.296 | 97.0 | 0.713 | 3.480 | 343.1 | 520.2 | 0.998 | --- | -3.53 | 0.312 | 126.3 | 279.8 | -6.6 | 0.249 |
| 4-2970 | 4-3690 | 0.365 | 34.6 | 40.3 | 6.87 | 1.294 | 97.0 | 0.708 | 3.417 | 343.0 | 521.8 | 0.998 | --- | -8.17 | 0.303 | 124.1 | 278.5 | -11.5 | 0.243 |
| 4-2970 | 4-3710 | 0.595 | 73.5 | -44.8 | -25.18 | 1.292 | 97.1 | 0.703 | 3.365 | 342.9 | 523.3 | 0.998 | --- | 23.88 | 0.294 | 121.8 | 274.6 | 19.2 | 0.268 |
| 4-2970 | 4-3730 | 0.359 | 50.6 | -5.3 | -6.28 | 1.291 | 97.1 | 0.700 | 3.322 | 342.7 | 524.8 | 0.998 | --- | 4.99 | 0.287 | 119.5 | 276.2 | 2.5 | 0.224 |
| 4-2970 | 4-3750 | 0.346 | 48.4 | 2.2 | -4.06 | 1.290 | 97.2 | 0.696 | 3.286 | 342.4 | 526.2 | 0.997 | --- | 2.78 | 0.280 | 117.2 | 275.0 | 0.1 | 0.216 |
| 4-2970 | 4-3770 | 0.342 | 47.9 | 5.3 | -3.21 | 1.288 | 97.3 | 0.694 | 3.255 | 342.1 | 527.5 | 0.997 | --- | 1.93 | 0.274 | 115.0 | 273.7 | -0.8 | 0.210 |
| 4-2970 | 4-3790 | 0.341 | 47.9 | 7.1 | -2.76 | 1.288 | 97.4 | 0.692 | 3.230 | 341.8 | 528.8 | 0.996 | --- | 1.48 | 0.269 | 112.7 | 272.4 | -1.3 | 0.205 |
| 4-2970 | 4-3810 | 0.340 | 48.1 | 8.2 | -2.48 | 1.287 | 97.6 | 0.690 | 3.209 | 341.4 | 530.0 | 0.995 | --- | 1.20 | 0.264 | 110.5 | 271.1 | -1.6 | 0.200 |
| 4-2970 | 4-3830 | 0.341 | 48.5 | 9.1 | -2.29 | 1.286 | 97.8 | 0.689 | 3.192 | 341.0 | 531.2 | 0.994 | --- | 1.01 | 0.260 | 108.2 | 269.8 | -1.8 | 0.197 |
| 4-2970 | 4-3850 | 0.342 | 49.1 | 9.8 | -2.15 | 1.286 | 97.9 | 0.688 | 3.179 | 340.5 | 532.4 | 0.993 | --- | 0.87 | 0.256 | 106.0 | 268.5 | -2.0 | 0.194 |
| 4-2970 | 4-3870 | 0.343 | 49.7 | 10.4 | -2.04 | 1.285 | 98.1 | 0.687 | 3.168 | 340.0 | 533.4 | 0.992 | --- | 0.77 | 0.253 | 103.9 | 267.2 | -2.1 | 0.191 |
| 4-2970 | 4-3890 | 0.344 | 50.3 | 11.0 | -1.96 | 1.285 | 98.4 | 0.687 | 3.159 | 339.4 | 534.5 | 0.990 | --- | 0.69 | 0.250 | 101.7 | 266.0 | -2.2 | 0.189 |
| 4-2970 | 4-3910 | 0.346 | 51.1 | 11.5 | -1.89 | 1.285 | 98.6 | 0.686 | 3.153 | 338.8 | 535.5 | 0.989 | --- | 0.62 | 0.248 | 99.6 | 264.9 | -2.2 | 0.188 |
| 4-2970 | 4-3930 | 0.348 | 51.9 | 11.9 | -1.83 | 1.284 | 98.9 | 0.687 | 3.149 | 338.2 | 536.5 | 0.987 | --- | 0.57 | 0.246 | 97.6 | 263.8 | -2.3 | 0.187 |
| 4-2970 | 4-3950 | 0.351 | 52.7 | 12.4 | -1.79 | 1.284 | 99.1 | 0.687 | 3.146 | 337.5 | 537.4 | 0.985 | --- | 0.53 | 0.245 | 95.6 | 262.9 | -2.4 | 0.187 |
| 4-2970 | 4-3970 | 0.354 | 53.6 | 12.8 | -1.75 | 1.284 | 99.4 | 0.687 | 3.145 | 336.8 | 538.3 | 0.983 | --- | 0.49 | 0.243 | 93.6 | 262.0 | -2.4 | 0.187 |
| 4-2970 | 4-3990 | 0.357 | 54.5 | 13.2 | -1.71 | 1.284 | 99.7 | 0.688 | 3.146 | 336.1 | 539.2 | 0.981 | --- | 0.46 | 0.243 | 91.7 | 261.2 | -2.4 | 0.187 |
| 4-2970 | 4-4010 | 0.360 | 55.4 | 13.6 | -1.68 | 1.284 | 100.0 | 0.689 | 3.147 | 335.3 | 540.1 | 0.979 | 5.315 | 0.43 | 0.242 | 89.9 | 260.4 | -2.5 | 0.188 |
| 4-2970 | 4-4030 | 0.363 | 56.4 | 13.9 | -1.66 | 1.284 | 100.4 | 0.690 | 3.150 | 334.6 | 540.9 | 0.976 | 5.323 | 0.41 | 0.242 | 88.1 | 259.8 | -2.5 | 0.189 |
| 4-2970 | 4-4050 | 0.367 | 57.4 | 14.3 | -1.63 | 1.285 | 100.7 | 0.691 | 3.153 | 333.8 | 541.7 | 0.974 | 5.333 | 0.38 | 0.241 | 86.3 | 259.3 | -2.5 | 0.190 |
| 4-2970 | 4-4070 | 0.371 | 58.4 | 14.7 | -1.61 | 1.285 | 101.0 | 0.692 | 3.158 | 332.9 | 542.4 | 0.971 | 5.345 | 0.36 | 0.241 | 84.6 | 258.8 | -2.6 | 0.191 |
| 4-2970 | 4-4090 | 0.375 | 59.4 | 15.0 | -1.59 | 1.285 | 101.4 | 0.694 | 3.163 | 332.1 | 543.1 | 0.968 | 5.358 | 0.35 | 0.242 | 83.0 | 258.5 | -2.6 | 0.193 |
| 4-2970 | 4-4110 | 0.380 | 60.4 | 15.3 | -1.57 | 1.285 | 101.8 | 0.695 | 3.169 | 331.2 | 543.8 | 0.965 | 5.373 | 0.33 | 0.242 | 81.4 | 258.2 | -2.6 | 0.194 |
| 4-2970 | 4-4130 | 0.384 | 61.5 | 15.7 | -1.56 | 1.285 | 102.1 | 0.697 | 3.176 | 330.3 | 544.5 | 0.962 | 5.390 | 0.32 | 0.243 | 79.8 | 258.1 | -2.6 | 0.196 |
| 4-2970 | 4-4150 | 0.389 | 62.6 | 16.0 | -1.54 | 1.286 | 102.5 | 0.699 | 3.183 | 329.4 | 545.2 | 0.958 | 5.408 | 0.31 | 0.243 | 78.3 | 258.0 | -2.6 | 0.198 |
| 4-2970 | 4-4170 | 0.394 | 63.6 | 16.3 | -1.53 | 1.286 | 102.9 | 0.701 | 3.191 | 328.5 | 545.8 | 0.955 | 5.427 | 0.30 | 0.244 | 76.8 | 258.0 | -2.6 | 0.200 |
| 4-2970 | 4-4190 | 0.400 | 64.7 | 16.6 | -1.52 | 1.286 | 103.3 | 0.703 | 3.199 | 327.5 | 546.4 | 0.951 | 5.448 | 0.29 | 0.245 | 75.4 | 258.0 | -2.7 | 0.203 |
| 4-2970 | 4-4210 | 0.405 | 65.8 | 16.9 | -1.50 | 1.287 | 103.7 | 0.705 | 3.208 | 326.6 | 547.0 | 0.947 | 5.469 | 0.28 | 0.246 | 74.0 | 258.2 | -2.7 | 0.205 |
| 4-2970 | 4-4230 | 0.411 | 66.9 | 17.1 | -1.49 | 1.287 | 104.2 | 0.707 | 3.218 | 325.6 | 547.6 | 0.943 | 5.492 | 0.27 | 0.247 | 72.7 | 258.4 | -2.7 | 0.207 |
| 4-2970 | 4-4250 | 0.417 | 67.9 | 17.4 | -1.48 | 1.287 | 104.6 | 0.709 | 3.227 | 324.6 | 548.1 | 0.939 | 5.516 | 0.26 | 0.248 | 71.4 | 258.7 | -2.7 | 0.210 |
| 4-2970 | 4-4270 | 0.423 | 69.0 | 17.7 | -1.47 | 1.288 | 105.0 | 0.711 | 3.237 | 323.6 | 548.7 | 0.934 | 5.540 | 0.25 | 0.249 | 70.1 | 259.0 | -2.7 | 0.212 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| BEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2970 | 4-4290 | 0.430 | 70.1 | 17.9 | -1.46 | 1.288 | 105.5 | 0.714 | 3.247 | 322.5 | 549.2 | 0.929 | 5.565 | 0.25 | 0.251 | 68.9 | 259.4 | -2.7 | 0.215 |
| 4-2970 | 4-4310 | 0.436 | 71.2 | 18.2 | -1.45 | 1.289 | 106.0 | 0.716 | 3.258 | 321.5 | 549.7 | 0.924 | 5.591 | 0.24 | 0.252 | 67.7 | 259.9 | -2.8 | 0.218 |
| 4-2970 | 4-4330 | 0.443 | 72.2 | 18.4 | -1.45 | 1.289 | 106.4 | 0.719 | 3.269 | 320.4 | 550.1 | 0.919 | 5.618 | 0.24 | 0.254 | 66.6 | 260.4 | -2.8 | 0.220 |
| 4-2970 | 4-4350 | 0.450 | 73.3 | 18.6 | -1.44 | 1.289 | 106.9 | 0.721 | 3.280 | 319.3 | 550.6 | 0.914 | 5.646 | 0.23 | 0.255 | 65.5 | 260.9 | -2.8 | 0.223 |
| 4-2970 | 4-4370 | 0.457 | 74.4 | 18.8 | -1.43 | 1.290 | 107.4 | 0.724 | 3.291 | 318.2 | 551.1 | 0.908 | 5.674 | 0.23 | 0.256 | 64.4 | 261.5 | -2.8 | 0.226 |
| 4-2970 | 4-4390 | 0.465 | 75.4 | 19.0 | -1.42 | 1.290 | 107.9 | 0.727 | 3.303 | 317.1 | 551.5 | 0.902 | 5.703 | 0.22 | 0.258 | 63.3 | 262.2 | -2.8 | 0.229 |
| 4-2970 | 4-4410 | 0.472 | 76.5 | 19.2 | -1.41 | 1.291 | 108.4 | 0.730 | 3.314 | 316.0 | 551.9 | 0.896 | 5.732 | 0.22 | 0.260 | 62.3 | 262.9 | -2.8 | 0.232 |
| 4-2970 | 4-4430 | 0.480 | 77.6 | 19.4 | -1.41 | 1.291 | 108.9 | 0.732 | 3.326 | 314.9 | 552.3 | 0.890 | 5.762 | 0.21 | 0.261 | 61.3 | 263.6 | -2.8 | 0.234 |
| 4-2970 | 4-4450 | 0.488 | 78.6 | 19.5 | -1.40 | 1.291 | 109.4 | 0.735 | 3.338 | 313.7 | 552.7 | 0.884 | 5.792 | 0.21 | 0.263 | 60.3 | 264.4 | -2.9 | 0.237 |
| 4-2970 | 4-4470 | 0.496 | 79.6 | 19.7 | -1.39 | 1.292 | 109.9 | 0.738 | 3.350 | 312.6 | 553.0 | 0.877 | 5.823 | 0.21 | 0.264 | 59.3 | 265.2 | -2.9 | 0.240 |
| 4-2970 | 4-4490 | 0.505 | 80.7 | 19.8 | -1.39 | 1.292 | 110.5 | 0.741 | 3.363 | 311.4 | 553.4 | 0.870 | 5.855 | 0.20 | 0.266 | 58.4 | 266.0 | -2.9 | 0.243 |
| 4-2970 | 4-4510 | 0.513 | 81.7 | 20.0 | -1.38 | 1.293 | 111.0 | 0.744 | 3.375 | 310.2 | 553.7 | 0.863 | 5.887 | 0.20 | 0.268 | 57.5 | 266.9 | -2.9 | 0.246 |
| 4-2970 | 4-4530 | 0.522 | 82.7 | 20.1 | -1.38 | 1.293 | 111.5 | 0.747 | 3.387 | 309.0 | 554.1 | 0.856 | 5.919 | 0.20 | 0.270 | 56.6 | 267.8 | -2.9 | 0.249 |
| 4-2970 | 4-4550 | 0.531 | 83.7 | 20.2 | -1.37 | 1.294 | 112.1 | 0.751 | 3.400 | 307.8 | 554.4 | 0.848 | 5.952 | 0.20 | 0.271 | 55.7 | 268.7 | -2.9 | 0.252 |
| 4-2970 | 4-4570 | 0.540 | 84.7 | 20.3 | -1.37 | 1.294 | 112.7 | 0.754 | 3.413 | 306.6 | 554.7 | 0.840 | 5.985 | 0.19 | 0.273 | 54.8 | 269.7 | -2.9 | 0.255 |
| 4-2980 | 4-3280 | 0.634 | 59.3 | 18.4 | -0.86 | 1.554 | 103.2 | 1.432 | -2.246 | 337.6 | 471.9 | 0.971 | --- | -0.55 | 0.917 | 160.7 | 285.5 | -3.1 | 0.860 |
| 4-2980 | 4-3300 | 0.585 | 57.7 | 18.0 | -0.84 | 1.513 | 102.0 | 1.314 | -3.111 | 338.9 | 474.9 | 0.978 | --- | -0.56 | 0.846 | 159.5 | 285.9 | -3.2 | 0.789 |
| 4-2980 | 4-3320 | 0.544 | 56.1 | 17.6 | -0.82 | 1.480 | 100.9 | 1.217 | -4.530 | 340.2 | 477.9 | 0.983 | --- | -0.58 | 0.784 | 158.2 | 286.3 | -3.2 | 0.727 |
| 4-2980 | 4-3340 | 0.508 | 54.4 | 17.1 | -0.79 | 1.451 | 99.8 | 1.136 | -7.250 | 341.5 | 481.0 | 0.988 | --- | -0.60 | 0.729 | 156.9 | 286.6 | -3.2 | 0.672 |
| 4-2980 | 4-3360 | 0.479 | 52.7 | 16.7 | -0.76 | 1.427 | 98.9 | 1.069 | 14.443 | 342.7 | 483.9 | 0.992 | --- | -0.62 | 0.680 | 155.5 | 286.8 | -3.2 | 0.622 |
| 4-2980 | 4-3380 | 0.453 | 51.1 | 16.3 | -0.73 | 1.407 | 98.1 | 1.012 | 83.290 | 343.9 | 486.8 | 0.996 | --- | -0.65 | 0.636 | 154.1 | 287.0 | -3.2 | 0.578 |
| 4-2980 | 4-3400 | 0.431 | 49.4 | 15.9 | -0.69 | 1.390 | 97.4 | 0.964 | 27.712 | 345.0 | 489.7 | 0.999 | --- | -0.68 | 0.597 | 152.6 | 287.1 | -3.3 | 0.538 |
| 4-2980 | 4-3420 | 0.413 | 47.9 | 15.6 | -0.66 | 1.375 | 96.7 | 0.923 | 13.028 | 346.0 | 492.4 | 1.002 | --- | -0.71 | 0.561 | 151.0 | 287.2 | -3.3 | 0.502 |
| 4-2980 | 4-3440 | 0.397 | 46.4 | 15.3 | -0.62 | 1.363 | 96.1 | 0.888 | 8.986 | 347.0 | 495.1 | 1.004 | --- | -0.74 | 0.529 | 149.4 | 287.2 | -3.4 | 0.470 |
| 4-2980 | 4-3460 | 0.383 | 45.0 | 15.0 | -0.57 | 1.352 | 95.6 | 0.858 | 7.106 | 347.9 | 497.7 | 1.006 | --- | -0.78 | 0.500 | 147.7 | 287.1 | -3.4 | 0.440 |
| 4-2980 | 4-3480 | 0.372 | 43.8 | 14.7 | -0.52 | 1.343 | 95.1 | 0.833 | 6.027 | 348.7 | 500.2 | 1.007 | --- | -0.82 | 0.473 | 146.0 | 286.9 | -3.5 | 0.413 |
| 4-2980 | 4-3500 | 0.362 | 42.6 | 14.6 | -0.47 | 1.334 | 94.7 | 0.811 | 5.332 | 349.4 | 502.6 | 1.008 | --- | -0.87 | 0.449 | 144.2 | 286.6 | -3.5 | 0.388 |
| 4-2980 | 4-3520 | 0.353 | 41.6 | 14.5 | -0.41 | 1.327 | 94.4 | 0.792 | 4.851 | 350.0 | 504.9 | 1.009 | --- | -0.92 | 0.428 | 142.3 | 286.3 | -3.6 | 0.366 |
| 4-2980 | 4-3540 | 0.346 | 40.7 | 14.4 | -0.34 | 1.321 | 94.1 | 0.776 | 4.500 | 350.5 | 507.2 | 1.010 | --- | -0.99 | 0.408 | 140.4 | 285.9 | -3.7 | 0.345 |
| 4-2980 | 4-3560 | 0.340 | 39.9 | 14.5 | -0.26 | 1.316 | 93.9 | 0.761 | 4.236 | 351.0 | 509.3 | 1.011 | --- | -1.06 | 0.390 | 138.4 | 285.3 | -3.8 | 0.326 |
| 4-2980 | 4-3580 | 0.335 | 39.2 | 14.6 | -0.17 | 1.312 | 93.7 | 0.749 | 4.031 | 351.3 | 511.4 | 1.011 | --- | -1.15 | 0.373 | 136.4 | 284.7 | -3.9 | 0.309 |
| 4-2980 | 4-3600 | 0.330 | 38.6 | 14.9 | -0.06 | 1.308 | 93.6 | 0.739 | 3.869 | 351.6 | 513.3 | 1.012 | --- | -1.25 | 0.358 | 134.3 | 284.0 | -4.1 | 0.294 |
| 4-2980 | 4-3620 | 0.326 | 38.1 | 15.3 | 0.07 | 1.304 | 93.4 | 0.729 | 3.738 | 351.8 | 515.2 | 1.012 | --- | -1.37 | 0.345 | 132.2 | 283.2 | -4.2 | 0.280 |
| 4-2980 | 4-3640 | 0.323 | 37.7 | 15.8 | 0.22 | 1.301 | 93.4 | 0.721 | 3.632 | 352.0 | 517.0 | 1.012 | --- | -1.52 | 0.332 | 130.0 | 282.3 | -4.4 | 0.267 |
| 4-2980 | 4-3660 | 0.320 | 37.4 | 16.5 | 0.41 | 1.299 | 93.3 | 0.715 | 3.545 | 352.0 | 518.7 | 1.012 | --- | -1.70 | 0.321 | 127.8 | 281.3 | -4.7 | 0.255 |
| 4-2980 | 4-3680 | 0.318 | 37.0 | 17.5 | 0.66 | 1.296 | 93.3 | 0.709 | 3.474 | 352.0 | 520.4 | 1.012 | --- | -1.94 | 0.311 | 125.6 | 280.3 | -5.0 | 0.245 |
| 4-2980 | 4-3700 | 0.317 | 36.7 | 18.8 | 0.98 | 1.294 | 93.3 | 0.704 | 3.414 | 351.9 | 522.0 | 1.012 | --- | -2.26 | 0.302 | 123.4 | 279.1 | -5.4 | 0.236 |
| 4-2980 | 4-3720 | 0.316 | 36.4 | 20.6 | 1.43 | 1.293 | 93.4 | 0.699 | 3.364 | 351.8 | 523.5 | 1.012 | --- | -2.71 | 0.294 | 121.1 | 278.0 | -6.0 | 0.227 |
| 4-2980 | 4-3740 | 0.316 | 35.7 | 23.3 | 2.11 | 1.291 | 93.5 | 0.696 | 3.322 | 351.6 | 524.9 | 1.012 | --- | -3.37 | 0.286 | 118.9 | 276.7 | -6.9 | 0.220 |
| 4-2980 | 4-3760 | 0.319 | 34.6 | 27.7 | 3.21 | 1.290 | 93.5 | 0.692 | 3.288 | 351.3 | 526.3 | 1.011 | --- | -4.47 | 0.280 | 116.6 | 275.4 | -8.3 | 0.214 |
| 4-2980 | 4-3780 | 0.330 | 31.9 | 35.8 | 5.37 | 1.289 | 93.7 | 0.690 | 3.259 | 351.0 | 527.6 | 1.011 | --- | -6.63 | 0.274 | 114.4 | 274.0 | -10.9 | 0.211 |
| 4-2980 | 4-3800 | 0.385 | 21.3 | 54.7 | 11.48 | 1.288 | 93.8 | 0.688 | 3.235 | 350.7 | 528.9 | 1.011 | --- | -12.74 | 0.269 | 112.1 | 272.2 | -17.9 | 0.215 |
| 4-2980 | 4-3820 | 1.394 | 229.0 | 48.6 | 74.40 | 1.287 | 93.8 | 0.686 | 3.215 | 350.5 | 530.1 | 1.011 | --- | -75.65 | 0.264 | 109.9 | 261.2 | -35.5 | 0.449 |
| 4-2980 | 4-3840 | 0.437 | 60.1 | -33.2 | -15.61 | 1.287 | 94.2 | 0.684 | 3.199 | 349.7 | 531.3 | 1.010 | --- | 14.37 | 0.260 | 107.7 | 269.6 | 13.9 | 0.211 |
| 4-2980 | 4-3860 | 0.353 | 52.2 | -13.9 | -8.32 | 1.286 | 94.4 | 0.683 | 3.186 | 349.3 | 532.4 | 1.009 | --- | 7.09 | 0.257 | 105.6 | 268.8 | 5.9 | 0.196 |
| 4-2980 | 4-3880 | 0.334 | 50.2 | -5.7 | -5.93 | 1.286 | 94.6 | 0.683 | 3.176 | 348.7 | 533.5 | 1.008 | --- | 4.70 | 0.254 | 103.5 | 267.7 | 3.0 | 0.191 |
| 4-2980 | 4-3900 | 0.328 | 49.7 | -1.2 | -4.74 | 1.286 | 94.8 | 0.682 | 3.169 | 348.2 | 534.6 | 1.007 | --- | 3.52 | 0.252 | 101.4 | 266.6 | 1.5 | 0.188 |
| 4-2980 | 4-3920 | 0.325 | 49.8 | 1.7 | -4.03 | 1.285 | 95.0 | 0.682 | 3.163 | 347.6 | 535.6 | 1.007 | --- | 2.81 | 0.249 | 99.3 | 265.5 | 0.7 | 0.187 |
| 4-2980 | 4-3940 | 0.325 | 50.2 | 3.8 | -3.56 | 1.285 | 95.3 | 0.682 | 3.159 | 346.9 | 536.5 | 1.006 | --- | 2.35 | 0.248 | 97.3 | 264.5 | 0.1 | 0.186 |
| 4-2980 | 4-3960 | 0.325 | 50.8 | 5.4 | -3.22 | 1.285 | 95.6 | 0.682 | 3.157 | 346.3 | 537.5 | 1.004 | --- | 2.01 | 0.246 | 95.4 | 263.5 | -0.4 | 0.185 |
| 4-2980 | 4-3980 | 0.326 | 51.5 | 6.6 | -2.97 | 1.285 | 95.8 | 0.682 | 3.157 | 345.6 | 538.4 | 1.003 | --- | 1.77 | 0.245 | 93.5 | 262.6 | -0.7 | 0.185 |
| 4-2980 | 4-4000 | 0.327 | 52.4 | 7.7 | -2.77 | 1.285 | 96.1 | 0.683 | 3.157 | 344.8 | 539.2 | 1.002 | --- | 1.57 | 0.245 | 91.6 | 261.8 | -1.0 | 0.185 |
| 4-2980 | 4-4020 | 0.329 | 53.3 | 8.7 | -2.61 | 1.285 | 96.4 | 0.683 | 3.159 | 344.1 | 540.1 | 1.000 | 5.319 | 1.42 | 0.244 | 89.8 | 261.1 | -1.2 | 0.186 |
| 4-2980 | 4-4040 | 0.331 | 54.3 | 9.5 | -2.48 | 1.285 | 96.8 | 0.684 | 3.163 | 343.3 | 540.9 | 0.999 | 5.326 | 1.30 | 0.244 | 88.1 | 260.5 | -1.3 | 0.186 |
| 4-2980 | 4-4060 | 0.333 | 55.4 | 10.3 | -2.37 | 1.286 | 97.1 | 0.685 | 3.167 | 342.5 | 541.7 | 0.997 | 5.336 | 1.19 | 0.244 | 86.4 | 260.0 | -1.5 | 0.187 |
| 4-2980 | 4-4080 | 0.336 | 56.5 | 11.0 | -2.28 | 1.286 | 97.4 | 0.686 | 3.171 | 341.7 | 542.4 | 0.995 | 5.348 | 1.11 | 0.244 | 84.7 | 259.6 | -1.6 | 0.189 |
| 4-2980 | 4-4100 | 0.339 | 57.6 | 11.6 | -2.20 | 1.286 | 97.8 | 0.687 | 3.177 | 340.8 | 543.2 | 0.993 | 5.361 | 1.03 | 0.244 | 83.1 | 259.3 | -1.7 | 0.190 |
| 4-2980 | 4-4120 | 0.342 | 58.7 | 12.2 | -2.13 | 1.286 | 98.2 | 0.689 | 3.183 | 340.0 | 543.9 | 0.991 | 5.376 | 0.97 | 0.244 | 81.6 | 259.0 | -1.8 | 0.192 |
| 4-2980 | 4-4140 | 0.346 | 59.9 | 12.8 | -2.07 | 1.286 | 98.5 | 0.690 | 3.190 | 339.1 | 544.5 | 0.989 | 5.392 | 0.91 | 0.245 | 80.1 | 258.9 | -1.9 | 0.193 |
| 4-2980 | 4-4160 | 0.349 | 61.1 | 13.3 | -2.01 | 1.287 | 98.9 | 0.692 | 3.198 | 338.2 | 545.2 | 0.986 | 5.410 | 0.86 | 0.246 | 78.6 | 258.8 | -1.9 | 0.195 |
| 4-2980 | 4-4180 | 0.353 | 62.3 | 13.8 | -1.96 | 1.287 | 99.3 | 0.693 | 3.206 | 337.2 | 545.8 | 0.984 | 5.428 | 0.82 | 0.247 | 77.2 | 258.8 | -2.0 | 0.197 |
| 4-2980 | 4-4200 | 0.357 | 63.6 | 14.3 | -1.92 | 1.287 | 99.7 | 0.695 | 3.215 | 336.3 | 546.4 | 0.981 | 5.448 | 0.78 | 0.248 | 75.9 | 258.9 | -2.1 | 0.199 |
| 4-2980 | 4-4220 | 0.362 | 64.8 | 14.7 | -1.88 | 1.288 | 100.1 | 0.697 | 3.224 | 335.3 | 547.0 | 0.978 | 5.469 | 0.74 | 0.249 | 74.5 | 259.0 | -2.1 | 0.201 |
| 4-2980 | 4-4240 | 0.366 | 66.1 | 15.2 | -1.84 | 1.288 | 100.5 | 0.698 | 3.233 | 334.4 | 547.6 | 0.975 | 5.491 | 0.71 | 0.250 | 73.3 | 259.2 | -2.2 | 0.204 |
| 4-2980 | 4-4260 | 0.371 | 67.3 | 15.6 | -1.81 | 1.288 | 100.9 | 0.700 | 3.243 | 333.4 | 548.2 | 0.972 | 5.514 | 0.69 | 0.251 | 72.0 | 259.5 | -2.2 | 0.206 |
| 4-2980 | 4-4280 | 0.376 | 68.6 | 15.9 | -1.78 | 1.289 | 101.4 | 0.702 | 3.253 | 332.4 | 548.7 | 0.968 | 5.538 | 0.66 | 0.252 | 70.8 | 259.8 | -2.3 | 0.208 |
| 4-2980 | 4-4300 | 0.381 | 69.8 | 16.3 | -1.75 | 1.289 | 101.8 | 0.704 | 3.263 | 331.3 | 549.2 | 0.965 | 5.562 | 0.64 | 0.253 | 69.7 | 260.2 | -2.3 | 0.211 |
| 4-2980 | 4-4320 | 0.387 | 71.1 | 16.6 | -1.72 | 1.290 | 102.2 | 0.707 | 3.274 | 330.3 | 549.7 | 0.961 | 5.587 | 0.62 | 0.255 | 68.5 | 260.7 | -2.3 | 0.213 |
| 4-2980 | 4-4340 | 0.393 | 72.3 | 17.0 | -1.70 | 1.290 | 102.7 | 0.709 | 3.285 | 329.3 | 550.2 | 0.957 | 5.613 | 0.60 | 0.256 | 67.4 | 261.2 | -2.4 | 0.216 |
| 4-2980 | 4-4360 | 0.399 | 73.6 | 17.3 | -1.67 | 1.290 | 103.1 | 0.711 | 3.296 | 328.2 | 550.7 | 0.953 | 5.640 | 0.58 | 0.258 | 66.3 | 261.7 | -2.4 | 0.218 |
| 4-2980 | 4-4380 | 0.405 | 74.8 | 17.6 | -1.65 | 1.291 | 103.6 | 0.713 | 3.308 | 327.1 | 551.2 | 0.948 | 5.667 | 0.56 | 0.259 | 65.3 | 262.3 | -2.4 | 0.221 |
| 4-2980 | 4-4400 | 0.411 | 76.0 | 17.8 | -1.63 | 1.291 | 104.1 | 0.716 | 3.319 | 326.0 | 551.6 | 0.944 | 5.695 | 0.55 | 0.261 | 64.3 | 262.9 | -2.5 | 0.223 |
| 4-2980 | 4-4420 | 0.418 | 77.3 | 18.1 | -1.61 | 1.292 | 104.6 | 0.718 | 3.331 | 324.9 | 552.0 | 0.939 | 5.723 | 0.53 | 0.262 | 63.3 | 263.6 | -2.5 | 0.226 |
| 4-2980 | 4-4440 | 0.424 | 78.5 | 18.3 | -1.59 | 1.292 | 105.1 | 0.721 | 3.343 | 323.8 | 552.4 | 0.934 | 5.752 | 0.52 | 0.264 | 62.3 | 264.3 | -2.5 | 0.229 |
| 4-2980 | 4-4460 | 0.431 | 79.7 | 18.6 | -1.57 | 1.292 | 105.6 | 0.723 | 3.355 | 322.7 | 552.8 | 0.929 | 5.782 | 0.51 | 0.266 | 61.4 | 265.1 | -2.5 | 0.231 |
| 4-2980 | 4-4480 | 0.439 | 80.9 | 18.8 | -1.55 | 1.293 | 106.1 | 0.726 | 3.367 | 321.5 | 553.2 | 0.923 | 5.811 | 0.50 | 0.267 | 60.5 | 265.9 | -2.6 | 0.234 |
| 4-2980 | 4-4500 | 0.446 | 82.1 | 19.0 | -1.54 | 1.293 | 106.6 | 0.728 | 3.380 | 320.4 | 553.6 | 0.918 | 5.842 | 0.49 | 0.269 | 59.6 | 266.7 | -2.6 | 0.237 |
| 4-2980 | 4-4520 | 0.454 | 83.3 | 19.1 | -1.52 | 1.294 | 107.1 | 0.731 | 3.392 | 319.2 | 554.0 | 0.912 | 5.873 | 0.48 | 0.270 | 58.7 | 267.6 | -2.6 | 0.239 |
| 4-2980 | 4-4540 | 0.461 | 84.4 | 19.3 | -1.51 | 1.294 | 107.6 | 0.734 | 3.405 | 318.1 | 554.3 | 0.906 | 5.904 | 0.47 | 0.272 | 57.9 | 268.5 | -2.6 | 0.242 |
| 4-2980 | 4-4560 | 0.469 | 85.6 | 19.5 | -1.49 | 1.295 | 108.1 | 0.737 | 3.418 | 316.9 | 554.7 | 0.900 | 5.936 | 0.46 | 0.274 | 57.0 | 269.4 | -2.6 | 0.245 |
| BEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2980 | 4-4580 | 0.477 | 86.7 | 19.6 | -1.48 | 1.295 | 108.7 | 0.740 | 3.430 | 315.7 | 555.0 | 0.893 | 5.968 | 0.46 | 0.276 | 56.2 | 270.3 | -2.6 | 0.248 |
| 4-2990 | 4-3270 | 0.637 | 58.4 | 18.3 | -0.77 | 1.592 | 99.3 | 1.560 | -1.774 | 344.8 | 468.6 | 0.994 | --- | -0.71 | 0.979 | 161.2 | 286.0 | -3.2 | 0.919 |
| 4-2990 | 4-3290 | 0.584 | 56.4 | 17.9 | -0.74 | 1.545 | 98.1 | 1.415 | -2.405 | 346.2 | 471.7 | 0.998 | --- | -0.73 | 0.900 | 160.1 | 286.4 | -3.2 | 0.841 |
| 4-2990 | 4-3310 | 0.539 | 54.3 | 17.4 | -0.71 | 1.506 | 97.0 | 1.297 | -3.372 | 347.6 | 474.9 | 1.002 | --- | -0.74 | 0.831 | 158.9 | 286.7 | -3.2 | 0.772 |
| 4-2990 | 4-3330 | 0.502 | 52.2 | 16.9 | -0.68 | 1.473 | 96.0 | 1.201 | -5.008 | 349.0 | 478.0 | 1.005 | --- | -0.76 | 0.770 | 157.7 | 287.1 | -3.2 | 0.711 |
| 4-2990 | 4-3350 | 0.471 | 50.1 | 16.3 | -0.65 | 1.446 | 95.1 | 1.121 | -8.337 | 350.4 | 481.1 | 1.008 | --- | -0.78 | 0.717 | 156.3 | 287.3 | -3.3 | 0.657 |
| 4-2990 | 4-3370 | 0.445 | 48.0 | 15.8 | -0.62 | 1.423 | 94.3 | 1.054 | 18.571 | 351.7 | 484.2 | 1.010 | --- | -0.80 | 0.668 | 155.0 | 287.5 | -3.3 | 0.609 |
| 4-2990 | 4-3390 | 0.423 | 46.0 | 15.3 | -0.59 | 1.403 | 93.5 | 0.999 | 02.845 | 352.9 | 487.2 | 1.011 | --- | -0.83 | 0.625 | 153.5 | 287.6 | -3.3 | 0.566 |
| 4-2990 | 4-3410 | 0.405 | 44.0 | 14.8 | -0.55 | 1.387 | 92.9 | 0.952 | 21.007 | 354.1 | 490.1 | 1.013 | --- | -0.85 | 0.587 | 152.0 | 287.7 | -3.4 | 0.527 |
| 4-2990 | 4-3430 | 0.389 | 42.2 | 14.4 | -0.51 | 1.372 | 92.3 | 0.912 | 11.527 | 355.2 | 492.9 | 1.013 | --- | -0.88 | 0.552 | 150.4 | 287.7 | -3.4 | 0.492 |
| 4-2990 | 4-3450 | 0.376 | 40.5 | 13.9 | -0.47 | 1.360 | 91.8 | 0.878 | 8.334 | 356.2 | 495.6 | 1.014 | --- | -0.91 | 0.520 | 148.8 | 287.6 | -3.5 | 0.460 |
| 4-2990 | 4-3470 | 0.365 | 38.9 | 13.6 | -0.43 | 1.350 | 91.3 | 0.850 | 6.742 | 357.1 | 498.3 | 1.015 | --- | -0.94 | 0.492 | 147.1 | 287.5 | -3.5 | 0.431 |
| 4-2990 | 4-3490 | 0.356 | 37.5 | 13.3 | -0.38 | 1.341 | 90.9 | 0.825 | 5.795 | 358.0 | 500.8 | 1.015 | --- | -0.98 | 0.466 | 145.3 | 287.3 | -3.6 | 0.404 |
| 4-2990 | 4-3510 | 0.348 | 36.2 | 13.0 | -0.33 | 1.333 | 90.6 | 0.804 | 5.172 | 358.7 | 503.2 | 1.015 | --- | -1.02 | 0.443 | 143.5 | 287.0 | -3.6 | 0.380 |
| 4-2990 | 4-3530 | 0.341 | 35.1 | 12.9 | -0.28 | 1.326 | 90.3 | 0.786 | 4.734 | 359.3 | 505.5 | 1.015 | --- | -1.07 | 0.421 | 141.6 | 286.6 | -3.7 | 0.358 |
| 4-2990 | 4-3550 | 0.336 | 34.1 | 12.8 | -0.22 | 1.320 | 90.1 | 0.770 | 4.412 | 359.8 | 507.8 | 1.015 | --- | -1.12 | 0.402 | 139.7 | 286.1 | -3.8 | 0.338 |
| 4-2990 | 4-3570 | 0.331 | 33.3 | 12.7 | -0.15 | 1.315 | 89.9 | 0.756 | 4.167 | 0.3 | 149.9 | --- | --- | -1.17 | 0.384 | 137.7 | 285.5 | -3.9 | 0.320 |
| 4-2990 | 4-3590 | 0.328 | 32.6 | 12.8 | -0.08 | 1.311 | 89.7 | 0.745 | 3.977 | 0.6 | 151.9 | --- | --- | -1.23 | 0.368 | 135.6 | 284.8 | -4.0 | 0.304 |
| 4-2990 | 4-3610 | 0.323 | 32.0 | 12.9 | -0.00 | 1.307 | 89.6 | 0.735 | 3.825 | 0.9 | 153.9 | --- | --- | -1.30 | 0.354 | 133.5 | 284.1 | -4.1 | 0.289 |
| 4-2990 | 4-3630 | 0.319 | 31.5 | 13.2 | 0.09 | 1.304 | 89.5 | 0.726 | 3.703 | 1.1 | 155.8 | --- | --- | -1.38 | 0.341 | 131.4 | 283.2 | -4.3 | 0.275 |
| 4-2990 | 4-3650 | 0.317 | 31.2 | 13.5 | 0.19 | 1.301 | 89.5 | 0.718 | 3.604 | 1.2 | 157.5 | --- | --- | -1.48 | 0.329 | 129.2 | 282.3 | -4.4 | 0.263 |
| 4-2990 | 4-3670 | 0.314 | 31.0 | 13.9 | 0.30 | 1.299 | 89.5 | 0.712 | 3.522 | 1.3 | 159.2 | --- | --- | -1.58 | 0.318 | 127.0 | 281.3 | -4.6 | 0.251 |
| 4-2990 | 4-3690 | 0.312 | 30.8 | 14.4 | 0.44 | 1.296 | 89.5 | 0.706 | 3.455 | 1.2 | 160.9 | --- | --- | -1.70 | 0.308 | 124.8 | 280.2 | -4.8 | 0.241 |
| 4-2990 | 4-3710 | 0.310 | 30.7 | 15.1 | 0.59 | 1.295 | 89.5 | 0.701 | 3.399 | 1.1 | 162.4 | --- | --- | -1.85 | 0.299 | 122.6 | 279.1 | -5.0 | 0.232 |
| 4-2990 | 4-3730 | 0.309 | 30.7 | 15.9 | 0.77 | 1.293 | 89.6 | 0.697 | 3.352 | 1.0 | 163.9 | --- | --- | -2.02 | 0.291 | 120.3 | 277.9 | -5.3 | 0.224 |
| 4-2990 | 4-3750 | 0.308 | 30.8 | 16.9 | 0.99 | 1.292 | 89.7 | 0.694 | 3.313 | 0.7 | 165.3 | --- | --- | -2.23 | 0.284 | 118.1 | 276.7 | -5.6 | 0.217 |
| 4-2990 | 4-3770 | 0.307 | 30.8 | 18.2 | 1.26 | 1.291 | 89.8 | 0.691 | 3.281 | 0.5 | 166.7 | --- | --- | -2.49 | 0.278 | 115.8 | 275.4 | -6.0 | 0.211 |
| 4-2990 | 4-3790 | 0.306 | 30.9 | 19.7 | 1.60 | 1.290 | 90.0 | 0.688 | 3.254 | 0.1 | 168.0 | --- | --- | -2.82 | 0.273 | 113.6 | 274.1 | -6.5 | 0.206 |
| 4-2990 | 4-3810 | 0.306 | 30.8 | 21.7 | 2.04 | 1.289 | 90.1 | 0.686 | 3.232 | 359.7 | 529.3 | 1.015 | --- | -3.26 | 0.268 | 111.4 | 272.8 | -7.1 | 0.201 |
| 4-2990 | 4-3830 | 0.307 | 30.6 | 24.3 | 2.64 | 1.288 | 90.3 | 0.684 | 3.213 | 359.3 | 530.5 | 1.015 | --- | -3.85 | 0.264 | 109.2 | 271.5 | -7.9 | 0.197 |
| 4-2990 | 4-3850 | 0.310 | 30.0 | 27.9 | 3.51 | 1.287 | 90.5 | 0.683 | 3.199 | 358.9 | 531.6 | 1.015 | --- | -4.71 | 0.260 | 107.0 | 270.2 | -9.1 | 0.195 |
| 4-2990 | 4-3870 | 0.317 | 28.6 | 33.3 | 4.87 | 1.287 | 90.7 | 0.682 | 3.187 | 358.3 | 532.7 | 1.015 | --- | -6.06 | 0.257 | 104.9 | 268.9 | -10.9 | 0.193 |
| 4-2990 | 4-3890 | 0.334 | 25.1 | 42.1 | 7.30 | 1.287 | 90.9 | 0.681 | 3.178 | 357.8 | 533.8 | 1.015 | --- | -8.49 | 0.254 | 102.8 | 267.6 | -13.9 | 0.194 |
| 4-2990 | 4-3910 | 0.394 | 13.1 | 57.9 | 12.91 | 1.286 | 91.1 | 0.680 | 3.171 | 357.3 | 534.8 | 1.015 | --- | -14.09 | 0.252 | 100.8 | 266.3 | -20.3 | 0.203 |
| 4-2990 | 4-3930 | 0.775 | 274.2 | 69.7 | 37.01 | 1.286 | 91.3 | 0.680 | 3.167 | 356.8 | 535.8 | 1.015 | --- | -38.18 | 0.250 | 98.8 | 264.1 | -35.8 | 0.282 |
| 4-2990 | 4-3950 | 0.759 | 86.1 | -62.1 | -36.03 | 1.286 | 91.7 | 0.680 | 3.164 | 355.7 | 536.7 | 1.014 | --- | 34.87 | 0.248 | 96.8 | 264.2 | 28.6 | 0.268 |
| 4-2990 | 4-3970 | 0.418 | 58.5 | -32.8 | -14.75 | 1.286 | 92.0 | 0.679 | 3.163 | 355.1 | 537.7 | 1.014 | --- | 13.60 | 0.247 | 94.9 | 263.8 | 13.8 | 0.199 |
| 4-2990 | 4-3990 | 0.356 | 53.8 | -18.5 | -9.48 | 1.286 | 92.2 | 0.680 | 3.163 | 354.5 | 538.6 | 1.013 | --- | 8.34 | 0.246 | 93.1 | 263.0 | 7.8 | 0.189 |
| 4-2990 | 4-4010 | 0.335 | 52.3 | -10.5 | -7.14 | 1.286 | 92.5 | 0.680 | 3.164 | 353.7 | 539.4 | 1.013 | --- | 6.01 | 0.245 | 91.3 | 262.2 | 4.9 | 0.187 |
| 4-2990 | 4-4030 | 0.326 | 52.0 | -5.5 | -5.83 | 1.286 | 92.8 | 0.680 | 3.167 | 353.0 | 540.2 | 1.012 | 5.322 | 4.70 | 0.245 | 89.5 | 261.6 | 3.2 | 0.186 |
| 4-2990 | 4-4050 | 0.321 | 52.3 | -2.0 | -4.98 | 1.286 | 93.2 | 0.681 | 3.171 | 352.2 | 541.0 | 1.011 | 5.330 | 3.86 | 0.245 | 87.8 | 261.0 | 2.1 | 0.186 |
| 4-2990 | 4-4070 | 0.319 | 52.9 | 0.6 | -4.39 | 1.287 | 93.5 | 0.682 | 3.175 | 351.4 | 541.8 | 1.011 | 5.340 | 3.28 | 0.245 | 86.2 | 260.5 | 1.3 | 0.187 |
| 4-2990 | 4-4090 | 0.319 | 53.7 | 2.6 | -3.96 | 1.287 | 93.8 | 0.683 | 3.181 | 350.6 | 542.5 | 1.010 | 5.351 | 2.86 | 0.245 | 84.6 | 260.1 | 0.7 | 0.188 |
| 4-2990 | 4-4110 | 0.319 | 54.7 | 4.3 | -3.62 | 1.287 | 94.2 | 0.684 | 3.187 | 349.7 | 543.3 | 1.009 | 5.365 | 2.53 | 0.246 | 83.0 | 259.8 | 0.2 | 0.189 |
| 4-2990 | 4-4130 | 0.320 | 55.7 | 5.8 | -3.36 | 1.287 | 94.5 | 0.685 | 3.193 | 348.8 | 544.0 | 1.007 | 5.380 | 2.27 | 0.246 | 81.5 | 259.6 | -0.1 | 0.190 |
| 4-2990 | 4-4150 | 0.321 | 56.9 | 7.0 | -3.14 | 1.288 | 94.9 | 0.686 | 3.201 | 347.9 | 544.6 | 1.006 | 5.396 | 2.06 | 0.247 | 80.1 | 259.5 | -0.4 | 0.192 |
| 4-2990 | 4-4170 | 0.323 | 58.1 | 8.1 | -2.96 | 1.288 | 95.3 | 0.687 | 3.209 | 347.0 | 545.3 | 1.005 | 5.413 | 1.89 | 0.248 | 78.7 | 259.4 | -0.6 | 0.193 |
| 4-2990 | 4-4190 | 0.325 | 59.4 | 9.1 | -2.81 | 1.288 | 95.7 | 0.688 | 3.217 | 346.1 | 545.9 | 1.003 | 5.432 | 1.75 | 0.248 | 77.3 | 259.4 | -0.8 | 0.195 |
| 4-2990 | 4-4210 | 0.327 | 60.7 | 10.0 | -2.68 | 1.289 | 96.0 | 0.690 | 3.226 | 345.2 | 546.5 | 1.001 | 5.451 | 1.63 | 0.249 | 76.0 | 259.5 | -1.0 | 0.197 |
| 4-2990 | 4-4230 | 0.330 | 62.0 | 10.8 | -2.56 | 1.289 | 96.4 | 0.691 | 3.236 | 344.2 | 547.1 | 1.000 | 5.472 | 1.52 | 0.251 | 74.7 | 259.7 | -1.2 | 0.199 |
| 4-2990 | 4-4250 | 0.333 | 63.4 | 11.5 | -2.47 | 1.289 | 96.9 | 0.693 | 3.245 | 343.2 | 547.7 | 0.998 | 5.493 | 1.43 | 0.252 | 73.5 | 259.9 | -1.3 | 0.201 |
| 4-2990 | 4-4270 | 0.336 | 64.8 | 12.2 | -2.38 | 1.290 | 97.3 | 0.694 | 3.255 | 342.2 | 548.3 | 0.995 | 5.516 | 1.35 | 0.253 | 72.3 | 260.2 | -1.4 | 0.203 |
| 4-2990 | 4-4290 | 0.340 | 66.2 | 12.9 | -2.30 | 1.290 | 97.7 | 0.696 | 3.266 | 341.2 | 548.8 | 0.993 | 5.539 | 1.28 | 0.254 | 71.2 | 260.5 | -1.5 | 0.205 |
| 4-2990 | 4-4310 | 0.344 | 67.6 | 13.5 | -2.23 | 1.290 | 98.1 | 0.698 | 3.277 | 340.2 | 549.3 | 0.991 | 5.563 | 1.22 | 0.256 | 70.0 | 260.9 | -1.6 | 0.208 |
| 4-2990 | 4-4330 | 0.348 | 69.1 | 14.0 | -2.16 | 1.291 | 98.5 | 0.700 | 3.288 | 339.2 | 549.8 | 0.988 | 5.587 | 1.16 | 0.257 | 69.0 | 261.4 | -1.7 | 0.210 |
| 4-2990 | 4-4350 | 0.352 | 70.5 | 14.5 | -2.10 | 1.291 | 99.0 | 0.701 | 3.299 | 338.1 | 550.3 | 0.985 | 5.612 | 1.11 | 0.258 | 67.9 | 261.9 | -1.8 | 0.212 |
| 4-2990 | 4-4370 | 0.357 | 71.9 | 15.0 | -2.05 | 1.292 | 99.4 | 0.703 | 3.310 | 337.1 | 550.8 | 0.982 | 5.638 | 1.07 | 0.260 | 66.9 | 262.4 | -1.9 | 0.215 |
| 4-2990 | 4-4390 | 0.361 | 73.4 | 15.5 | -2.00 | 1.292 | 99.9 | 0.705 | 3.322 | 336.0 | 551.3 | 0.979 | 5.665 | 1.03 | 0.261 | 65.9 | 263.0 | -1.9 | 0.217 |
| 4-2990 | 4-4410 | 0.366 | 74.8 | 15.9 | -1.96 | 1.292 | 100.3 | 0.707 | 3.334 | 334.9 | 551.7 | 0.976 | 5.692 | 0.99 | 0.263 | 64.9 | 263.6 | -2.0 | 0.219 |
| 4-2990 | 4-4430 | 0.372 | 76.2 | 16.3 | -1.91 | 1.293 | 100.8 | 0.709 | 3.346 | 333.9 | 552.2 | 0.972 | 5.719 | 0.96 | 0.265 | 64.0 | 264.3 | -2.0 | 0.222 |
| 4-2990 | 4-4450 | 0.377 | 77.7 | 16.6 | -1.87 | 1.293 | 101.3 | 0.712 | 3.358 | 332.7 | 552.6 | 0.968 | 5.747 | 0.92 | 0.266 | 63.1 | 265.0 | -2.1 | 0.224 |
| 4-2990 | 4-4470 | 0.383 | 79.1 | 17.0 | -1.84 | 1.294 | 101.8 | 0.714 | 3.370 | 331.6 | 553.0 | 0.964 | 5.776 | 0.90 | 0.268 | 62.2 | 265.8 | -2.1 | 0.227 |
| 4-2990 | 4-4490 | 0.389 | 80.5 | 17.3 | -1.80 | 1.294 | 102.3 | 0.716 | 3.382 | 330.5 | 553.4 | 0.960 | 5.805 | 0.87 | 0.269 | 61.3 | 266.6 | -2.2 | 0.229 |
| 4-2990 | 4-4510 | 0.395 | 81.9 | 17.6 | -1.77 | 1.294 | 102.7 | 0.718 | 3.395 | 329.4 | 553.8 | 0.956 | 5.834 | 0.85 | 0.271 | 60.5 | 267.4 | -2.2 | 0.232 |
| 4-2990 | 4-4530 | 0.401 | 83.3 | 17.8 | -1.74 | 1.295 | 103.2 | 0.721 | 3.408 | 328.2 | 554.2 | 0.951 | 5.864 | 0.82 | 0.273 | 59.6 | 268.2 | -2.2 | 0.234 |
| 4-2990 | 4-4550 | 0.408 | 84.6 | 18.1 | -1.71 | 1.295 | 103.7 | 0.723 | 3.420 | 327.1 | 554.5 | 0.947 | 5.894 | 0.80 | 0.274 | 58.8 | 269.1 | -2.3 | 0.237 |
| 4-2990 | 4-4570 | 0.415 | 86.0 | 18.3 | -1.68 | 1.296 | 104.3 | 0.726 | 3.433 | 325.9 | 554.9 | 0.942 | 5.925 | 0.79 | 0.276 | 58.0 | 270.0 | -2.3 | 0.239 |
| 4-2990 | 4-4590 | 0.422 | 87.3 | 18.5 | -1.65 | 1.296 | 104.8 | 0.728 | 3.446 | 324.7 | 555.2 | 0.937 | 5.956 | 0.77 | 0.278 | 57.3 | 270.9 | -2.3 | 0.242 |
| 4-3000 | 4-3280 | 0.598 | 53.7 | 17.4 | -0.68 | 1.580 | 93.7 | 1.528 | -1.914 | 353.8 | 468.9 | 1.010 | --- | -0.86 | 0.958 | 160.8 | 286.7 | -3.2 | 0.897 |
| 4-3000 | 4-3300 | 0.550 | 51.3 | 16.8 | -0.65 | 1.534 | 92.7 | 1.386 | -2.622 | 355.4 | 472.2 | 1.012 | --- | -0.87 | 0.881 | 159.6 | 287.1 | -3.3 | 0.820 |
| 4-3000 | 4-3320 | 0.511 | 48.7 | 16.2 | -0.62 | 1.497 | 91.7 | 1.271 | -3.739 | 356.9 | 475.5 | 1.013 | --- | -0.89 | 0.813 | 158.4 | 287.3 | -3.3 | 0.753 |
| 4-3000 | 4-3340 | 0.479 | 46.2 | 15.5 | -0.59 | 1.466 | 90.9 | 1.177 | -5.722 | 358.4 | 478.7 | 1.014 | --- | -0.90 | 0.754 | 157.2 | 287.6 | -3.3 | 0.694 |
| 4-3000 | 4-3360 | 0.453 | 43.8 | 14.8 | -0.56 | 1.439 | 90.1 | 1.100 | 10.148 | 359.9 | 481.9 | 1.014 | --- | -0.92 | 0.701 | 155.9 | 287.8 | -3.3 | 0.641 |
| 4-3000 | 4-3380 | 0.432 | 41.4 | 14.2 | -0.53 | 1.417 | 89.4 | 1.036 | 28.296 | 1.3 | 125.0 | --- | --- | -0.94 | 0.654 | 154.5 | 287.9 | -3.4 | 0.594 |
| 4-3000 | 4-3400 | 0.414 | 39.1 | 13.6 | -0.49 | 1.398 | 88.7 | 0.982 | 57.591 | 2.6 | 128.1 | --- | --- | -0.96 | 0.612 | 153.0 | 288.0 | -3.4 | 0.552 |
| 4-3000 | 4-3420 | 0.399 | 37.0 | 13.0 | -0.46 | 1.383 | 88.2 | 0.938 | 16.211 | 3.8 | 131.1 | --- | --- | -0.98 | 0.574 | 151.5 | 288.0 | -3.4 | 0.514 |
| 4-3000 | 4-3440 | 0.387 | 35.1 | 12.4 | -0.42 | 1.369 | 87.7 | 0.900 | 10.089 | 4.9 | 133.9 | --- | --- | -1.00 | 0.540 | 149.9 | 287.9 | -3.5 | 0.480 |
| 4-3000 | 4-3460 | 0.377 | 33.3 | 11.9 | -0.38 | 1.357 | 87.2 | 0.868 | 7.641 | 6.0 | 136.7 | --- | --- | -1.03 | 0.510 | 148.2 | 287.8 | -3.5 | 0.449 |
| 4-3000 | 4-3480 | 0.369 | 31.7 | 11.5 | -0.34 | 1.347 | 86.8 | 0.840 | 6.332 | 6.9 | 139.3 | --- | --- | -1.05 | 0.482 | 146.5 | 287.6 | -3.6 | 0.421 |
| 4-3000 | 4-3500 | 0.361 | 30.3 | 11.2 | -0.29 | 1.339 | 86.5 | 0.817 | 5.523 | 7.8 | 141.9 | --- | --- | -1.08 | 0.457 | 144.7 | 287.3 | -3.7 | 0.395 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3000 | 4-3520 | 0.355 | 29.0 | 10.9 | -0.25 | 1.331 | 86.2 | 0.797 | 4.978 | 8.5 | 144.3 | --- | --- | -1.12 | 0.434 | 142.9 | 286.9 | -3.7 | 0.372 |
| 4-3000 | 4-3540 | 0.350 | 28.0 | 10.7 | -0.20 | 1.325 | 86.0 | 0.780 | 4.589 | 9.1 | 146.6 | --- | --- | -1.15 | 0.413 | 140.9 | 286.5 | -3.8 | 0.351 |
| 4-3000 | 4-3560 | 0.346 | 27.1 | 10.6 | -0.15 | 1.319 | 85.8 | 0.766 | 4.299 | 9.6 | 148.8 | --- | --- | -1.19 | 0.394 | 139.0 | 285.9 | -3.9 | 0.331 |
| 4-3000 | 4-3580 | 0.342 | 26.3 | 10.5 | -0.09 | 1.314 | 85.7 | 0.753 | 4.077 | 10.0 | 150.9 | --- | --- | -1.23 | 0.377 | 136.9 | 285.3 | -4.0 | 0.314 |
| 4-3000 | 4-3600 | 0.339 | 25.7 | 10.5 | -0.03 | 1.310 | 85.6 | 0.742 | 3.904 | 10.4 | 152.9 | --- | --- | -1.28 | 0.361 | 134.9 | 284.6 | -4.1 | 0.298 |
| 4-3000 | 4-3620 | 0.335 | 25.2 | 10.6 | 0.03 | 1.307 | 85.5 | 0.733 | 3.765 | 10.6 | 154.9 | --- | --- | -1.33 | 0.347 | 132.8 | 283.7 | -4.2 | 0.283 |
| 4-3000 | 4-3640 | 0.333 | 24.8 | 10.7 | 0.10 | 1.304 | 85.5 | 0.725 | 3.653 | 10.8 | 156.7 | --- | --- | -1.39 | 0.335 | 130.6 | 282.9 | -4.3 | 0.270 |
| 4-3000 | 4-3660 | 0.330 | 24.6 | 11.0 | 0.18 | 1.301 | 85.5 | 0.717 | 3.562 | 10.8 | 158.4 | --- | --- | -1.45 | 0.323 | 128.4 | 281.9 | -4.4 | 0.258 |
| 4-3000 | 4-3680 | 0.328 | 24.5 | 11.3 | 0.26 | 1.299 | 85.5 | 0.711 | 3.486 | 10.8 | 160.1 | --- | --- | -1.52 | 0.313 | 126.2 | 280.8 | -4.6 | 0.248 |
| 4-3000 | 4-3700 | 0.326 | 24.4 | 11.6 | 0.35 | 1.297 | 85.5 | 0.706 | 3.424 | 10.8 | 161.7 | --- | --- | -1.60 | 0.303 | 124.0 | 279.7 | -4.7 | 0.238 |
| 4-3000 | 4-3720 | 0.323 | 24.5 | 12.1 | 0.45 | 1.295 | 85.6 | 0.702 | 3.373 | 10.6 | 163.2 | --- | --- | -1.69 | 0.295 | 121.7 | 278.6 | -4.9 | 0.229 |
| 4-3000 | 4-3740 | 0.322 | 24.6 | 12.6 | 0.56 | 1.293 | 85.7 | 0.698 | 3.330 | 10.4 | 164.6 | --- | --- | -1.79 | 0.288 | 119.5 | 277.4 | -5.1 | 0.222 |
| 4-3000 | 4-3760 | 0.320 | 24.8 | 13.3 | 0.69 | 1.292 | 85.8 | 0.694 | 3.294 | 10.2 | 166.0 | --- | --- | -1.90 | 0.281 | 117.2 | 276.1 | -5.3 | 0.215 |
| 4-3000 | 4-3780 | 0.318 | 25.0 | 14.0 | 0.83 | 1.291 | 86.0 | 0.691 | 3.264 | 9.9 | 167.3 | --- | --- | -2.03 | 0.275 | 115.0 | 274.8 | -5.5 | 0.209 |
| 4-3000 | 4-3800 | 0.317 | 25.3 | 14.8 | 0.99 | 1.290 | 86.1 | 0.689 | 3.240 | 9.5 | 168.6 | --- | --- | -2.18 | 0.270 | 112.7 | 273.6 | -5.7 | 0.204 |
| 4-3000 | 4-3820 | 0.315 | 25.7 | 15.8 | 1.18 | 1.289 | 86.3 | 0.687 | 3.220 | 9.1 | 169.8 | --- | --- | -2.36 | 0.265 | 110.5 | 272.3 | -6.0 | 0.200 |
| 4-3000 | 4-3840 | 0.314 | 26.0 | 16.9 | 1.40 | 1.289 | 86.5 | 0.685 | 3.204 | 8.6 | 171.0 | --- | --- | -2.57 | 0.261 | 108.3 | 271.0 | -6.3 | 0.196 |
| 4-3000 | 4-3860 | 0.313 | 26.4 | 18.3 | 1.67 | 1.288 | 86.7 | 0.684 | 3.191 | 8.1 | 172.1 | --- | --- | -2.82 | 0.258 | 106.2 | 269.8 | -6.7 | 0.193 |
| 4-3000 | 4-3880 | 0.312 | 26.7 | 19.8 | 1.99 | 1.288 | 86.9 | 0.682 | 3.181 | 7.6 | 173.2 | --- | --- | -3.13 | 0.255 | 104.1 | 268.6 | -7.1 | 0.190 |
| 4-3000 | 4-3900 | 0.312 | 27.0 | 21.7 | 2.39 | 1.288 | 87.2 | 0.681 | 3.173 | 7.0 | 174.2 | --- | --- | -3.52 | 0.252 | 102.0 | 267.4 | -7.7 | 0.189 |
| 4-3000 | 4-3920 | 0.312 | 27.2 | 24.1 | 2.90 | 1.287 | 87.4 | 0.681 | 3.168 | 6.4 | 175.2 | --- | --- | -4.02 | 0.250 | 100.0 | 266.4 | -8.4 | 0.187 |
| 4-3000 | 4-3940 | 0.314 | 27.1 | 27.0 | 3.58 | 1.287 | 87.7 | 0.680 | 3.164 | 5.8 | 176.2 | --- | --- | -4.69 | 0.249 | 98.0 | 265.3 | -9.3 | 0.187 |
| 4-3000 | 4-3960 | 0.318 | 26.6 | 31.0 | 4.52 | 1.287 | 87.9 | 0.680 | 3.163 | 5.1 | 177.1 | --- | --- | -5.62 | 0.247 | 96.1 | 264.4 | -10.5 | 0.187 |
| 4-3000 | 4-3980 | 0.326 | 25.2 | 36.4 | 5.93 | 1.287 | 88.2 | 0.680 | 3.162 | 4.4 | 178.0 | --- | --- | -7.02 | 0.246 | 94.2 | 263.6 | -12.3 | 0.188 |
| 4-3000 | 4-4000 | 0.344 | 21.7 | 44.5 | 8.27 | 1.287 | 88.5 | 0.680 | 3.164 | 3.7 | 178.9 | --- | --- | -9.35 | 0.246 | 92.4 | 262.8 | -15.1 | 0.191 |
| 4-3000 | 4-4020 | 0.394 | 11.4 | 57.0 | 12.85 | 1.287 | 88.8 | 0.680 | 3.166 | 2.9 | 179.7 | --- | --- | -13.92 | 0.245 | 90.6 | 262.2 | -20.2 | 0.200 |
| 4-3000 | 4-4040 | 0.582 | 319.2 | 71.2 | 25.52 | 1.287 | 89.1 | 0.680 | 3.169 | 2.3 | 180.5 | --- | 5.325 | -26.58 | 0.245 | 88.9 | 262.2 | -30.6 | 0.237 |
| 4-3000 | 4-4060 | 1.608 | 192.1 | -65.5 | -88.98 | 1.288 | 89.8 | 0.681 | 3.174 | 0.5 | 181.3 | --- | 5.334 | 87.93 | 0.245 | 87.3 | 266.4 | 27.2 | 0.486 |
| 4-3000 | 4-4080 | 0.604 | 70.2 | -54.2 | -26.87 | 1.288 | 89.9 | 0.681 | 3.179 | 0.2 | 182.0 | --- | 5.344 | 25.83 | 0.245 | 85.7 | 262.2 | 23.9 | 0.235 |
| 4-3000 | 4-4100 | 0.418 | 58.9 | -33.0 | -14.77 | 1.288 | 90.2 | 0.682 | 3.185 | 359.5 | 542.8 | 1.014 | 5.356 | 13.74 | 0.246 | 84.1 | 260.9 | 13.7 | 0.202 |
| 4-3000 | 4-4120 | 0.364 | 55.8 | -20.9 | -10.32 | 1.288 | 90.5 | 0.682 | 3.192 | 358.7 | 543.5 | 1.014 | 5.370 | 9.30 | 0.246 | 82.6 | 260.4 | 8.6 | 0.195 |
| 4-3000 | 4-4140 | 0.341 | 54.9 | -13.3 | -8.03 | 1.289 | 90.9 | 0.683 | 3.199 | 357.8 | 544.2 | 1.013 | 5.385 | 7.03 | 0.247 | 81.2 | 260.1 | 5.8 | 0.194 |
| 4-3000 | 4-4160 | 0.330 | 54.9 | -8.1 | -6.64 | 1.289 | 91.3 | 0.684 | 3.207 | 356.9 | 544.8 | 1.013 | 5.401 | 5.65 | 0.248 | 79.8 | 260.0 | 4.1 | 0.194 |
| 4-3000 | 4-4180 | 0.324 | 55.4 | -4.4 | -5.71 | 1.289 | 91.6 | 0.685 | 3.216 | 356.0 | 545.5 | 1.013 | 5.419 | 4.73 | 0.249 | 78.4 | 259.9 | 2.9 | 0.194 |
| 4-3000 | 4-4200 | 0.320 | 56.2 | -1.4 | -5.04 | 1.290 | 92.0 | 0.686 | 3.225 | 355.0 | 546.1 | 1.012 | 5.437 | 4.07 | 0.250 | 77.1 | 259.9 | 2.0 | 0.196 |
| 4-3000 | 4-4220 | 0.318 | 57.2 | 0.9 | -4.53 | 1.290 | 92.4 | 0.687 | 3.234 | 354.1 | 546.7 | 1.012 | 5.457 | 3.57 | 0.251 | 75.8 | 260.0 | 1.4 | 0.197 |
| 4-3000 | 4-4240 | 0.318 | 58.4 | 2.9 | -4.14 | 1.290 | 92.8 | 0.688 | 3.244 | 353.1 | 547.3 | 1.011 | 5.477 | 3.19 | 0.252 | 74.6 | 260.2 | 0.9 | 0.199 |
| 4-3000 | 4-4260 | 0.318 | 59.6 | 4.5 | -3.82 | 1.291 | 93.2 | 0.690 | 3.254 | 352.2 | 547.8 | 1.010 | 5.498 | 2.88 | 0.253 | 73.4 | 260.4 | 0.5 | 0.201 |
| 4-3000 | 4-4280 | 0.318 | 61.0 | 5.9 | -3.56 | 1.291 | 93.6 | 0.691 | 3.265 | 351.2 | 548.4 | 1.009 | 5.520 | 2.63 | 0.254 | 72.3 | 260.7 | 0.1 | 0.202 |
| 4-3000 | 4-4300 | 0.319 | 62.4 | 7.2 | -3.34 | 1.291 | 94.0 | 0.692 | 3.275 | 350.2 | 548.9 | 1.008 | 5.543 | 2.42 | 0.256 | 71.2 | 261.1 | -0.2 | 0.204 |
| 4-3000 | 4-4320 | 0.321 | 63.9 | 8.3 | -3.15 | 1.292 | 94.4 | 0.694 | 3.286 | 349.1 | 549.5 | 1.006 | 5.567 | 2.24 | 0.257 | 70.1 | 261.5 | -0.4 | 0.206 |
| 4-3000 | 4-4340 | 0.323 | 65.4 | 9.3 | -2.99 | 1.292 | 94.9 | 0.695 | 3.298 | 348.1 | 550.0 | 1.005 | 5.591 | 2.09 | 0.259 | 69.1 | 262.0 | -0.6 | 0.209 |
| 4-3000 | 4-4360 | 0.325 | 66.9 | 10.3 | -2.85 | 1.293 | 95.3 | 0.697 | 3.309 | 347.1 | 550.5 | 1.003 | 5.615 | 1.96 | 0.260 | 68.1 | 262.5 | -0.8 | 0.211 |
| 4-3000 | 4-4380 | 0.328 | 68.5 | 11.1 | -2.72 | 1.293 | 95.7 | 0.698 | 3.321 | 346.0 | 551.0 | 1.001 | 5.641 | 1.85 | 0.262 | 67.1 | 263.0 | -1.0 | 0.213 |
| 4-3000 | 4-4400 | 0.331 | 70.1 | 11.9 | -2.61 | 1.293 | 96.2 | 0.700 | 3.333 | 345.0 | 551.4 | 0.999 | 5.667 | 1.75 | 0.263 | 66.2 | 263.6 | -1.1 | 0.215 |
| 4-3000 | 4-4420 | 0.334 | 71.7 | 12.6 | -2.51 | 1.294 | 96.6 | 0.702 | 3.345 | 343.9 | 551.9 | 0.997 | 5.693 | 1.66 | 0.265 | 65.2 | 264.3 | -1.2 | 0.217 |
| 4-3000 | 4-4440 | 0.337 | 73.3 | 13.2 | -2.42 | 1.294 | 97.1 | 0.704 | 3.357 | 342.8 | 552.3 | 0.995 | 5.720 | 1.58 | 0.266 | 64.3 | 264.9 | -1.3 | 0.219 |
| 4-3000 | 4-4460 | 0.341 | 74.9 | 13.8 | -2.34 | 1.295 | 97.6 | 0.705 | 3.370 | 341.7 | 552.7 | 0.993 | 5.747 | 1.51 | 0.268 | 63.5 | 265.7 | -1.4 | 0.222 |
| 4-3000 | 4-4480 | 0.345 | 76.5 | 14.4 | -2.27 | 1.295 | 98.0 | 0.707 | 3.382 | 340.6 | 553.2 | 0.990 | 5.775 | 1.45 | 0.270 | 62.6 | 266.4 | -1.5 | 0.224 |
| 4-3000 | 4-4500 | 0.349 | 78.1 | 14.9 | -2.20 | 1.296 | 98.5 | 0.709 | 3.395 | 339.5 | 553.6 | 0.987 | 5.803 | 1.39 | 0.271 | 61.8 | 267.2 | -1.6 | 0.226 |
| 4-3000 | 4-4520 | 0.354 | 79.7 | 15.3 | -2.13 | 1.296 | 99.0 | 0.711 | 3.408 | 338.4 | 554.0 | 0.984 | 5.831 | 1.34 | 0.273 | 61.0 | 268.0 | -1.7 | 0.229 |
| 4-3000 | 4-4540 | 0.359 | 81.3 | 15.8 | -2.08 | 1.296 | 99.5 | 0.713 | 3.421 | 337.2 | 554.4 | 0.981 | 5.860 | 1.29 | 0.275 | 60.2 | 268.9 | -1.7 | 0.231 |
| 4-3000 | 4-4560 | 0.364 | 82.9 | 16.2 | -2.02 | 1.297 | 99.9 | 0.715 | 3.434 | 336.1 | 554.7 | 0.977 | 5.890 | 1.25 | 0.276 | 59.5 | 269.7 | -1.8 | 0.233 |
| 4-3000 | 4-4580 | 0.369 | 84.5 | 16.5 | -1.97 | 1.297 | 100.4 | 0.717 | 3.447 | 334.9 | 555.1 | 0.974 | 5.919 | 1.21 | 0.278 | 58.7 | 270.6 | -1.9 | 0.236 |
| 4-3000 | 4-4600 | 0.375 | 86.0 | 16.8 | -1.92 | 1.298 | 100.9 | 0.720 | 3.460 | 333.8 | 555.4 | 0.970 | 5.949 | 1.17 | 0.280 | 58.0 | 271.6 | -1.9 | 0.238 |
| 4-3010 | 4-3270 | 0.633 | 50.2 | 16.7 | -0.66 | 1.619 | 88.8 | 1.653 | -1.549 | 1.9 | 106.5 | --- | --- | -0.97 | 1.020 | 161.5 | 286.9 | -3.3 | 0.958 |
| 4-3010 | 4-3290 | 0.582 | 47.4 | 15.9 | -0.63 | 1.566 | 87.9 | 1.482 | -2.097 | 3.6 | 109.9 | --- | --- | -0.98 | 0.934 | 160.4 | 287.2 | -3.3 | 0.873 |
| 4-3010 | 4-3310 | 0.541 | 44.6 | 15.2 | -0.60 | 1.523 | 87.0 | 1.346 | -2.918 | 5.2 | 113.3 | --- | --- | -0.99 | 0.859 | 159.3 | 287.4 | -3.3 | 0.798 |
| 4-3010 | 4-3330 | 0.508 | 41.8 | 14.4 | -0.56 | 1.487 | 86.2 | 1.237 | -4.262 | 6.9 | 116.7 | --- | --- | -1.00 | 0.793 | 158.1 | 287.7 | -3.3 | 0.733 |
| 4-3010 | 4-3350 | 0.482 | 39.1 | 13.6 | -0.53 | 1.457 | 85.5 | 1.147 | -6.823 | 8.5 | 120.1 | --- | --- | -1.01 | 0.735 | 156.8 | 287.8 | -3.4 | 0.675 |
| 4-3010 | 4-3370 | 0.460 | 36.5 | 12.8 | -0.50 | 1.432 | 84.8 | 1.074 | 13.494 | 10.0 | 123.4 | --- | --- | -1.03 | 0.683 | 155.5 | 288.0 | -3.4 | 0.624 |
| 4-3010 | 4-3390 | 0.443 | 34.1 | 12.1 | -0.46 | 1.411 | 84.2 | 1.014 | 71.133 | 11.5 | 126.6 | --- | --- | -1.04 | 0.638 | 154.1 | 288.0 | -3.4 | 0.579 |
| 4-3010 | 4-3410 | 0.430 | 31.9 | 11.4 | -0.43 | 1.393 | 83.7 | 0.964 | 27.762 | 12.9 | 129.7 | --- | --- | -1.06 | 0.597 | 152.6 | 288.0 | -3.5 | 0.538 |
| 4-3010 | 4-3430 | 0.418 | 29.9 | 10.8 | -0.39 | 1.378 | 83.2 | 0.922 | 12.803 | 14.2 | 132.7 | --- | --- | -1.07 | 0.560 | 151.1 | 287.9 | -3.5 | 0.501 |
| 4-3010 | 4-3450 | 0.409 | 28.1 | 10.3 | -0.36 | 1.365 | 82.8 | 0.887 | 8.800 | 15.3 | 135.5 | --- | --- | -1.09 | 0.527 | 149.4 | 287.8 | -3.5 | 0.468 |
| 4-3010 | 4-3470 | 0.402 | 26.5 | 9.6 | -0.32 | 1.354 | 82.5 | 0.857 | 6.956 | 16.4 | 138.3 | --- | --- | -1.11 | 0.497 | 147.7 | 287.6 | -3.6 | 0.438 |
| 4-3010 | 4-3490 | 0.395 | 25.1 | 9.4 | -0.28 | 1.344 | 82.2 | 0.832 | 5.903 | 17.3 | 140.9 | --- | --- | -1.13 | 0.469 | 146.0 | 287.3 | -3.7 | 0.411 |
| 4-3010 | 4-3510 | 0.390 | 23.8 | 9.1 | -0.24 | 1.336 | 81.9 | 0.811 | 5.227 | 18.1 | 143.5 | --- | --- | -1.15 | 0.445 | 144.2 | 286.9 | -3.7 | 0.386 |
| 4-3010 | 4-3530 | 0.385 | 22.8 | 8.8 | -0.19 | 1.329 | 81.7 | 0.792 | 4.761 | 18.8 | 145.8 | --- | --- | -1.18 | 0.423 | 142.3 | 286.5 | -3.8 | 0.364 |
| 4-3010 | 4-3550 | 0.381 | 21.9 | 8.6 | -0.15 | 1.323 | 81.5 | 0.777 | 4.422 | 19.4 | 148.1 | --- | --- | -1.21 | 0.402 | 140.3 | 285.9 | -3.9 | 0.343 |
| 4-3010 | 4-3570 | 0.378 | 21.2 | 8.5 | -0.10 | 1.318 | 81.4 | 0.763 | 4.167 | 19.9 | 150.3 | --- | --- | -1.24 | 0.384 | 138.3 | 285.3 | -3.9 | 0.324 |
| 4-3010 | 4-3590 | 0.374 | 20.6 | 8.5 | -0.05 | 1.313 | 81.3 | 0.752 | 3.970 | 20.2 | 152.4 | --- | --- | -1.27 | 0.368 | 136.2 | 284.6 | -4.0 | 0.308 |
| 4-3010 | 4-3610 | 0.371 | 20.1 | 8.5 | -0.00 | 1.309 | 81.3 | 0.742 | 3.814 | 20.5 | 154.3 | --- | --- | -1.30 | 0.353 | 134.1 | 283.8 | -4.1 | 0.292 |
| 4-3010 | 4-3630 | 0.368 | 19.8 | 8.6 | 0.05 | 1.306 | 81.3 | 0.733 | 3.690 | 20.7 | 156.2 | --- | --- | -1.34 | 0.339 | 132.0 | 282.9 | -4.2 | 0.278 |
| 4-3010 | 4-3650 | 0.366 | 19.5 | 8.7 | 0.11 | 1.303 | 81.3 | 0.726 | 3.589 | 20.8 | 157.9 | --- | --- | -1.38 | 0.327 | 129.8 | 282.0 | -4.3 | 0.266 |
| 4-3010 | 4-3670 | 0.363 | 19.4 | 8.9 | 0.17 | 1.301 | 81.3 | 0.719 | 3.507 | 20.8 | 159.6 | --- | --- | -1.43 | 0.316 | 127.6 | 281.0 | -4.4 | 0.254 |
| 4-3010 | 4-3690 | 0.361 | 19.4 | 9.1 | 0.24 | 1.298 | 81.4 | 0.714 | 3.439 | 20.8 | 161.2 | --- | --- | -1.48 | 0.306 | 125.3 | 279.9 | -4.5 | 0.244 |
| 4-3010 | 4-3710 | 0.358 | 19.4 | 9.4 | 0.31 | 1.297 | 81.5 | 0.709 | 3.383 | 20.6 | 162.8 | --- | --- | -1.53 | 0.297 | 123.0 | 278.8 | -4.7 | 0.235 |
| 4-3010 | 4-3730 | 0.356 | 19.5 | 9.7 | 0.38 | 1.295 | 81.6 | 0.705 | 3.336 | 20.4 | 164.2 | --- | --- | -1.59 | 0.289 | 120.7 | 277.6 | -4.8 | 0.227 |
| 4-3010 | 4-3750 | 0.353 | 19.7 | 10.1 | 0.46 | 1.294 | 81.7 | 0.701 | 3.298 | 20.2 | 165.6 | --- | --- | -1.66 | 0.282 | 118.5 | 276.3 | -4.9 | 0.220 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3010 | 4-3770 | 0.351 | 20.0 | 10.6 | 0.55 | 1.292 | 81.8 | 0.698 | 3.266 | 19.9 | 167.0 | --- | --- | -1.73 | 0.276 | 116.2 | 275.1 | -5.1 | 0.213 |
| 4-3010 | 4-3790 | 0.348 | 20.3 | 11.1 | 0.65 | 1.291 | 82.0 | 0.695 | 3.240 | 19.5 | 168.2 | --- | --- | -1.81 | 0.270 | 113.9 | 273.8 | -5.2 | 0.208 |
| 4-3010 | 4-3810 | 0.346 | 20.7 | 11.7 | 0.75 | 1.291 | 82.2 | 0.693 | 3.218 | 19.1 | 169.4 | --- | --- | -1.90 | 0.265 | 111.7 | 272.6 | -5.4 | 0.203 |
| 4-3010 | 4-3830 | 0.343 | 21.1 | 12.4 | 0.87 | 1.290 | 82.4 | 0.691 | 3.201 | 18.6 | 170.6 | --- | --- | -2.00 | 0.261 | 109.5 | 271.3 | -5.5 | 0.199 |
| 4-3010 | 4-3850 | 0.341 | 21.6 | 13.1 | 0.99 | 1.289 | 82.6 | 0.689 | 3.187 | 18.1 | 171.7 | --- | --- | -2.12 | 0.258 | 107.3 | 270.1 | -5.7 | 0.196 |
| 4-3010 | 4-3870 | 0.339 | 22.1 | 13.9 | 1.14 | 1.289 | 82.8 | 0.687 | 3.176 | 17.6 | 172.8 | --- | --- | -2.25 | 0.254 | 105.1 | 268.9 | -5.9 | 0.193 |
| 4-3010 | 4-3890 | 0.337 | 22.7 | 14.8 | 1.30 | 1.289 | 83.1 | 0.686 | 3.168 | 17.0 | 173.9 | --- | --- | -2.39 | 0.252 | 103.0 | 267.8 | -6.1 | 0.191 |
| 4-3010 | 4-3910 | 0.335 | 23.2 | 15.8 | 1.48 | 1.289 | 83.3 | 0.685 | 3.162 | 16.4 | 174.8 | --- | --- | -2.56 | 0.250 | 101.0 | 266.7 | -6.4 | 0.189 |
| 4-3010 | 4-3930 | 0.333 | 23.8 | 16.9 | 1.69 | 1.288 | 83.6 | 0.684 | 3.158 | 15.8 | 175.8 | --- | --- | -2.76 | 0.248 | 99.0 | 265.7 | -6.7 | 0.187 |
| 4-3010 | 4-3950 | 0.331 | 24.4 | 18.2 | 1.94 | 1.288 | 83.9 | 0.684 | 3.156 | 15.1 | 176.7 | --- | --- | -2.99 | 0.247 | 97.0 | 264.8 | -7.0 | 0.187 |
| 4-3010 | 4-3970 | 0.329 | 24.9 | 19.7 | 2.23 | 1.288 | 84.2 | 0.683 | 3.156 | 14.4 | 177.6 | --- | --- | -3.27 | 0.246 | 95.1 | 263.9 | -7.3 | 0.186 |
| 4-3010 | 4-3990 | 0.328 | 25.5 | 21.4 | 2.57 | 1.288 | 84.5 | 0.683 | 3.157 | 13.6 | 178.5 | --- | --- | -3.60 | 0.245 | 93.3 | 263.1 | -7.8 | 0.186 |
| 4-3010 | 4-4010 | 0.327 | 25.9 | 23.4 | 3.00 | 1.288 | 84.8 | 0.683 | 3.159 | 12.9 | 179.3 | --- | --- | -4.02 | 0.244 | 91.5 | 262.4 | -8.3 | 0.186 |
| 4-3010 | 4-4030 | 0.327 | 26.2 | 25.8 | 3.54 | 1.289 | 85.1 | 0.683 | 3.162 | 12.1 | 180.1 | --- | 5.322 | -4.54 | 0.244 | 89.8 | 261.8 | -9.0 | 0.187 |
| 4-3010 | 4-4050 | 0.329 | 26.3 | 28.8 | 4.23 | 1.289 | 85.4 | 0.683 | 3.167 | 11.3 | 180.9 | --- | 5.329 | -5.22 | 0.244 | 88.1 | 261.3 | -9.8 | 0.188 |
| 4-3010 | 4-4070 | 0.332 | 25.9 | 32.7 | 5.17 | 1.289 | 85.7 | 0.683 | 3.172 | 10.5 | 181.6 | --- | 5.339 | -6.14 | 0.244 | 86.5 | 260.9 | -10.9 | 0.189 |
| 4-3010 | 4-4090 | 0.339 | 24.7 | 37.7 | 6.50 | 1.289 | 86.1 | 0.683 | 3.178 | 9.6 | 182.4 | --- | 5.350 | -7.46 | 0.245 | 84.9 | 260.6 | -12.5 | 0.192 |
| 4-3010 | 4-4110 | 0.355 | 21.8 | 44.6 | 8.55 | 1.289 | 86.4 | 0.684 | 3.185 | 8.8 | 183.1 | --- | 5.363 | -9.50 | 0.245 | 83.4 | 260.4 | -14.9 | 0.196 |
| 4-3010 | 4-4130 | 0.392 | 14.3 | 54.5 | 12.12 | 1.290 | 86.8 | 0.684 | 3.192 | 7.9 | 183.8 | --- | 5.377 | -13.05 | 0.246 | 81.9 | 260.4 | -18.7 | 0.203 |
| 4-3010 | 4-4150 | 0.495 | 347.8 | 67.1 | 19.73 | 1.290 | 87.1 | 0.685 | 3.201 | 7.1 | 184.4 | --- | 5.392 | -20.66 | 0.247 | 80.5 | 261.1 | -25.7 | 0.223 |
| 4-3010 | 4-4170 | 0.905 | 272.9 | 60.6 | 44.28 | 1.290 | 87.4 | 0.685 | 3.209 | 6.4 | 185.1 | --- | 5.409 | -45.19 | 0.248 | 79.1 | 264.9 | -36.5 | 0.313 |
| 4-3010 | 4-4190 | 1.126 | 122.9 | -78.9 | -57.34 | 1.291 | 88.1 | 0.686 | 3.218 | 4.6 | 185.7 | --- | 5.426 | 56.44 | 0.249 | 77.9 | 267.4 | 31.2 | 0.360 |
| 4-3010 | 4-4210 | 0.564 | 66.4 | -50.3 | -24.24 | 1.291 | 88.4 | 0.687 | 3.228 | 3.9 | 186.3 | --- | 5.445 | 23.35 | 0.250 | 76.6 | 262.3 | 21.2 | 0.234 |
| 4-3010 | 4-4230 | 0.425 | 60.3 | -32.8 | -15.03 | 1.291 | 88.8 | 0.688 | 3.238 | 3.0 | 186.9 | --- | 5.465 | 14.16 | 0.251 | 75.4 | 261.2 | 13.2 | 0.212 |
| 4-3010 | 4-4250 | 0.374 | 58.5 | -22.0 | -10.97 | 1.292 | 89.1 | 0.689 | 3.248 | 2.1 | 187.5 | --- | 5.485 | 10.11 | 0.252 | 74.2 | 261.0 | 8.9 | 0.206 |
| 4-3010 | 4-4270 | 0.350 | 58.1 | -14.7 | -8.71 | 1.292 | 89.5 | 0.690 | 3.259 | 1.1 | 188.0 | --- | 5.506 | 7.86 | 0.254 | 73.1 | 261.1 | 6.3 | 0.205 |
| 4-3010 | 4-4290 | 0.337 | 58.4 | -9.5 | -7.27 | 1.293 | 89.9 | 0.691 | 3.270 | 0.1 | 188.6 | --- | 5.528 | 6.43 | 0.255 | 72.0 | 261.3 | 4.6 | 0.205 |
| 4-3010 | 4-4310 | 0.329 | 59.1 | -5.6 | -6.27 | 1.293 | 90.3 | 0.692 | 3.281 | 359.1 | 549.1 | 1.012 | 5.551 | 5.45 | 0.256 | 70.9 | 261.7 | 3.4 | 0.206 |
| 4-3010 | 4-4330 | 0.324 | 60.1 | -2.5 | -5.54 | 1.293 | 90.8 | 0.693 | 3.293 | 358.1 | 549.6 | 1.012 | 5.574 | 4.73 | 0.258 | 69.9 | 262.1 | 2.5 | 0.208 |
| 4-3010 | 4-4350 | 0.321 | 61.3 | -0.0 | -4.97 | 1.294 | 91.2 | 0.694 | 3.305 | 357.1 | 550.1 | 1.011 | 5.598 | 4.18 | 0.259 | 68.9 | 262.5 | 1.8 | 0.209 |
| 4-3010 | 4-4370 | 0.319 | 62.6 | 2.1 | -4.53 | 1.294 | 91.6 | 0.695 | 3.317 | 356.1 | 550.6 | 1.011 | 5.622 | 3.75 | 0.261 | 68.0 | 263.0 | 1.3 | 0.211 |
| 4-3010 | 4-4390 | 0.318 | 64.0 | 3.8 | -4.17 | 1.295 | 92.1 | 0.696 | 3.329 | 355.0 | 551.1 | 1.010 | 5.647 | 3.40 | 0.263 | 67.0 | 263.6 | 0.8 | 0.213 |
| 4-3010 | 4-4410 | 0.318 | 65.6 | 5.4 | -3.87 | 1.295 | 92.5 | 0.698 | 3.341 | 353.9 | 551.6 | 1.010 | 5.673 | 3.11 | 0.264 | 66.1 | 264.2 | 0.5 | 0.215 |
| 4-3010 | 4-4430 | 0.319 | 67.1 | 6.8 | -3.62 | 1.296 | 92.9 | 0.699 | 3.354 | 352.9 | 552.0 | 1.009 | 5.698 | 2.87 | 0.266 | 65.3 | 264.8 | 0.1 | 0.217 |
| 4-3010 | 4-4450 | 0.320 | 68.8 | 8.0 | -3.40 | 1.296 | 93.4 | 0.701 | 3.366 | 351.8 | 552.5 | 1.008 | 5.725 | 2.67 | 0.268 | 64.4 | 265.5 | -0.1 | 0.219 |
| 4-3010 | 4-4470 | 0.321 | 70.4 | 9.1 | -3.21 | 1.296 | 93.8 | 0.702 | 3.379 | 350.7 | 552.9 | 1.006 | 5.751 | 2.49 | 0.269 | 63.6 | 266.3 | -0.3 | 0.221 |
| 4-3010 | 4-4490 | 0.322 | 72.1 | 10.0 | -3.05 | 1.297 | 94.3 | 0.704 | 3.392 | 349.6 | 553.3 | 1.005 | 5.778 | 2.34 | 0.271 | 62.8 | 267.0 | -0.5 | 0.223 |
| 4-3010 | 4-4510 | 0.325 | 73.9 | 10.9 | -2.90 | 1.297 | 94.8 | 0.705 | 3.405 | 348.5 | 553.7 | 1.004 | 5.806 | 2.21 | 0.273 | 62.0 | 267.8 | -0.7 | 0.225 |
| 4-3010 | 4-4530 | 0.327 | 75.6 | 11.7 | -2.77 | 1.298 | 95.2 | 0.707 | 3.418 | 347.4 | 554.1 | 1.002 | 5.834 | 2.09 | 0.274 | 61.2 | 268.6 | -0.8 | 0.227 |
| 4-3010 | 4-4550 | 0.330 | 77.4 | 12.4 | -2.65 | 1.298 | 95.7 | 0.709 | 3.431 | 346.2 | 554.5 | 1.000 | 5.862 | 1.99 | 0.276 | 60.5 | 269.5 | -1.0 | 0.229 |
| 4-3010 | 4-4570 | 0.333 | 79.2 | 13.1 | -2.55 | 1.299 | 96.2 | 0.710 | 3.444 | 345.1 | 554.9 | 0.998 | 5.891 | 1.90 | 0.278 | 59.8 | 270.3 | -1.1 | 0.231 |
| 4-3010 | 4-4590 | 0.336 | 80.9 | 13.7 | -2.45 | 1.299 | 96.7 | 0.712 | 3.457 | 344.0 | 555.3 | 0.996 | 5.919 | 1.81 | 0.280 | 59.1 | 271.2 | -1.2 | 0.233 |
| 4-3010 | 4-4610 | 0.340 | 82.7 | 14.3 | -2.36 | 1.299 | 97.2 | 0.714 | 3.471 | 342.8 | 555.6 | 0.993 | 5.949 | 1.74 | 0.281 | 58.4 | 272.2 | -1.3 | 0.235 |
| 4-3020 | 4-3280 | 0.639 | 43.5 | 15.0 | -0.62 | 1.602 | 82.5 | 1.584 | -1.704 | 12.2 | 108.1 | --- | --- | -1.09 | 0.991 | 161.3 | 287.1 | -3.3 | 0.931 |
| 4-3020 | 4-3300 | 0.595 | 40.5 | 14.1 | -0.59 | 1.552 | 81.7 | 1.424 | -2.337 | 14.1 | 111.6 | --- | --- | -1.09 | 0.907 | 160.3 | 287.3 | -3.3 | 0.848 |
| 4-3020 | 4-3320 | 0.560 | 37.6 | 13.3 | -0.56 | 1.511 | 81.0 | 1.297 | -3.322 | 15.9 | 115.2 | --- | --- | -1.09 | 0.834 | 159.1 | 287.5 | -3.3 | 0.776 |
| 4-3020 | 4-3340 | 0.533 | 34.8 | 12.4 | -0.52 | 1.476 | 80.4 | 1.196 | -5.029 | 17.7 | 118.7 | --- | --- | -1.10 | 0.770 | 157.9 | 287.7 | -3.4 | 0.712 |
| 4-3020 | 4-3360 | 0.512 | 32.2 | 11.6 | -0.49 | 1.448 | 79.8 | 1.113 | -8.650 | 19.4 | 122.2 | --- | --- | -1.11 | 0.713 | 156.6 | 287.8 | -3.4 | 0.657 |
| 4-3020 | 4-3380 | 0.495 | 29.9 | 10.8 | -0.45 | 1.424 | 79.3 | 1.046 | 21.207 | 21.0 | 125.5 | --- | --- | -1.12 | 0.663 | 155.3 | 287.8 | -3.4 | 0.607 |
| 4-3020 | 4-3400 | 0.482 | 27.8 | 10.1 | -0.42 | 1.404 | 78.8 | 0.991 | 05.277 | 22.5 | 128.8 | --- | --- | -1.13 | 0.619 | 153.8 | 287.8 | -3.5 | 0.563 |
| 4-3020 | 4-3420 | 0.471 | 25.8 | 9.5 | -0.38 | 1.387 | 78.4 | 0.945 | 17.601 | 23.9 | 131.9 | --- | --- | -1.14 | 0.579 | 152.3 | 287.7 | -3.5 | 0.524 |
| 4-3020 | 4-3440 | 0.462 | 24.1 | 9.0 | -0.35 | 1.373 | 78.0 | 0.907 | 10.360 | 25.2 | 134.9 | --- | --- | -1.15 | 0.543 | 150.8 | 287.5 | -3.5 | 0.488 |
| 4-3020 | 4-3460 | 0.455 | 22.7 | 8.5 | -0.31 | 1.360 | 77.7 | 0.875 | 7.691 | 26.4 | 137.8 | --- | --- | -1.16 | 0.510 | 149.1 | 287.3 | -3.6 | 0.456 |
| 4-3020 | 4-3480 | 0.449 | 21.4 | 8.1 | -0.27 | 1.350 | 77.5 | 0.848 | 6.314 | 27.4 | 140.5 | --- | --- | -1.17 | 0.481 | 147.4 | 287.0 | -3.6 | 0.427 |
| 4-3020 | 4-3500 | 0.444 | 20.3 | 7.8 | -0.23 | 1.341 | 77.2 | 0.826 | 5.479 | 28.3 | 143.1 | --- | --- | -1.19 | 0.455 | 145.6 | 286.6 | -3.7 | 0.401 |
| 4-3020 | 4-3520 | 0.439 | 19.3 | 7.5 | -0.19 | 1.333 | 77.1 | 0.806 | 4.924 | 29.0 | 145.6 | --- | --- | -1.21 | 0.431 | 143.7 | 286.2 | -3.8 | 0.377 |
| 4-3020 | 4-3540 | 0.435 | 18.5 | 7.4 | -0.15 | 1.327 | 77.0 | 0.790 | 4.531 | 29.6 | 147.9 | --- | --- | -1.23 | 0.410 | 141.8 | 285.6 | -3.8 | 0.355 |
| 4-3020 | 4-3560 | 0.431 | 17.9 | 7.2 | -0.11 | 1.321 | 76.9 | 0.776 | 4.242 | 30.2 | 150.1 | --- | --- | -1.25 | 0.390 | 139.8 | 285.0 | -3.9 | 0.336 |
| 4-3020 | 4-3580 | 0.428 | 17.4 | 7.2 | -0.07 | 1.316 | 76.8 | 0.764 | 4.021 | 30.6 | 152.2 | --- | --- | -1.27 | 0.372 | 137.7 | 284.3 | -4.0 | 0.318 |
| 4-3020 | 4-3600 | 0.425 | 17.0 | 7.1 | -0.02 | 1.312 | 76.8 | 0.754 | 3.849 | 30.9 | 154.2 | --- | --- | -1.29 | 0.356 | 135.6 | 283.5 | -4.1 | 0.302 |
| 4-3020 | 4-3620 | 0.422 | 16.7 | 7.2 | 0.02 | 1.308 | 76.8 | 0.745 | 3.713 | 31.1 | 156.1 | --- | --- | -1.32 | 0.342 | 133.4 | 282.6 | -4.1 | 0.287 |
| 4-3020 | 4-3640 | 0.419 | 16.5 | 7.2 | 0.07 | 1.305 | 76.8 | 0.737 | 3.603 | 31.2 | 157.8 | --- | --- | -1.35 | 0.329 | 131.2 | 281.7 | -4.2 | 0.274 |
| 4-3020 | 4-3660 | 0.416 | 16.4 | 7.4 | 0.12 | 1.302 | 76.9 | 0.730 | 3.514 | 31.2 | 159.5 | --- | --- | -1.38 | 0.317 | 128.9 | 280.7 | -4.3 | 0.262 |
| 4-3020 | 4-3680 | 0.413 | 16.3 | 7.5 | 0.17 | 1.300 | 77.0 | 0.724 | 3.441 | 31.1 | 161.1 | --- | --- | -1.41 | 0.307 | 126.7 | 279.6 | -4.4 | 0.251 |
| 4-3020 | 4-3700 | 0.410 | 16.4 | 7.7 | 0.23 | 1.298 | 77.1 | 0.719 | 3.381 | 31.0 | 162.7 | --- | --- | -1.45 | 0.297 | 124.4 | 278.5 | -4.5 | 0.242 |
| 4-3020 | 4-3720 | 0.407 | 16.5 | 8.0 | 0.28 | 1.296 | 77.2 | 0.715 | 3.332 | 30.8 | 164.1 | --- | --- | -1.48 | 0.289 | 122.0 | 277.3 | -4.6 | 0.233 |
| 4-3020 | 4-3740 | 0.404 | 16.7 | 8.3 | 0.35 | 1.295 | 77.4 | 0.711 | 3.291 | 30.6 | 165.5 | --- | --- | -1.53 | 0.281 | 119.7 | 276.1 | -4.7 | 0.226 |
| 4-3020 | 4-3760 | 0.400 | 16.9 | 8.6 | 0.41 | 1.294 | 77.5 | 0.707 | 3.257 | 30.2 | 166.8 | --- | --- | -1.57 | 0.275 | 117.4 | 274.9 | -4.8 | 0.219 |
| 4-3020 | 4-3780 | 0.397 | 17.2 | 9.0 | 0.48 | 1.293 | 77.7 | 0.704 | 3.230 | 29.9 | 168.1 | --- | --- | -1.62 | 0.269 | 115.1 | 273.6 | -4.9 | 0.213 |
| 4-3020 | 4-3800 | 0.394 | 17.6 | 9.4 | 0.55 | 1.292 | 77.9 | 0.702 | 3.207 | 29.4 | 169.3 | --- | --- | -1.68 | 0.264 | 112.8 | 272.4 | -5.0 | 0.208 |
| 4-3020 | 4-3820 | 0.391 | 18.0 | 9.8 | 0.63 | 1.291 | 78.1 | 0.700 | 3.189 | 29.0 | 170.5 | --- | --- | -1.74 | 0.259 | 110.5 | 271.2 | -5.1 | 0.204 |
| 4-3020 | 4-3840 | 0.388 | 18.4 | 10.3 | 0.71 | 1.291 | 78.4 | 0.698 | 3.174 | 28.4 | 171.6 | --- | --- | -1.80 | 0.256 | 108.3 | 270.0 | -5.3 | 0.200 |
| 4-3020 | 4-3860 | 0.384 | 18.9 | 10.8 | 0.80 | 1.290 | 78.6 | 0.696 | 3.163 | 27.9 | 172.6 | --- | --- | -1.87 | 0.252 | 106.1 | 268.8 | -5.4 | 0.197 |
| 4-3020 | 4-3880 | 0.381 | 19.4 | 11.4 | 0.89 | 1.290 | 78.9 | 0.694 | 3.154 | 27.3 | 173.7 | --- | --- | -1.95 | 0.250 | 103.9 | 267.7 | -5.5 | 0.194 |
| 4-3020 | 4-3900 | 0.378 | 20.0 | 12.0 | 0.99 | 1.290 | 79.1 | 0.693 | 3.148 | 26.7 | 174.6 | --- | --- | -2.04 | 0.247 | 101.8 | 266.7 | -5.6 | 0.192 |
| 4-3020 | 4-3920 | 0.374 | 20.6 | 12.7 | 1.11 | 1.289 | 79.4 | 0.692 | 3.144 | 26.0 | 175.6 | --- | --- | -2.13 | 0.246 | 99.7 | 265.7 | -5.8 | 0.191 |
| 4-3020 | 4-3940 | 0.371 | 21.2 | 13.5 | 1.23 | 1.289 | 79.7 | 0.691 | 3.142 | 25.3 | 176.5 | --- | --- | -2.24 | 0.244 | 97.7 | 264.7 | -5.9 | 0.189 |
| 4-3020 | 4-3960 | 0.368 | 21.9 | 14.3 | 1.37 | 1.289 | 80.0 | 0.691 | 3.142 | 24.6 | 177.4 | --- | --- | -2.36 | 0.243 | 95.8 | 263.9 | -6.1 | 0.189 |
| 4-3020 | 4-3980 | 0.365 | 22.5 | 15.1 | 1.52 | 1.289 | 80.3 | 0.690 | 3.143 | 23.8 | 178.2 | --- | --- | -2.50 | 0.242 | 93.9 | 263.1 | -6.3 | 0.188 |
| 4-3020 | 4-4000 | 0.362 | 23.2 | 16.1 | 1.69 | 1.290 | 80.6 | 0.689 | 3.145 | 23.1 | 179.1 | --- | --- | -2.66 | 0.242 | 92.1 | 262.4 | -6.5 | 0.188 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3020 | 4-4020 | 0.359 | 23.9 | 17.2 | 1.89 | 1.290 | 80.9 | 0.689 | 3.149 | 22.3 | 179.9 | --- | --- | -2.83 | 0.242 | 90.3 | 261.8 | -6.7 | 0.188 |
| 4-3020 | 4-4040 | 0.356 | 24.6 | 18.4 | 2.11 | 1.290 | 81.3 | 0.689 | 3.153 | 21.5 | 180.6 | --- | 5.326 | -3.04 | 0.242 | 88.6 | 261.3 | -6.9 | 0.188 |
| 4-3020 | 4-4060 | 0.353 | 25.3 | 19.7 | 2.36 | 1.290 | 81.6 | 0.689 | 3.159 | 20.6 | 181.4 | --- | 5.334 | -3.28 | 0.242 | 87.0 | 260.9 | -7.2 | 0.189 |
| 4-3020 | 4-4080 | 0.351 | 26.0 | 21.2 | 2.66 | 1.290 | 82.0 | 0.689 | 3.165 | 19.8 | 182.1 | --- | 5.345 | -3.56 | 0.242 | 85.4 | 260.5 | -7.6 | 0.190 |
| 4-3020 | 4-4100 | 0.349 | 26.6 | 22.9 | 3.01 | 1.291 | 82.3 | 0.689 | 3.172 | 18.9 | 182.8 | --- | 5.357 | -3.90 | 0.243 | 83.9 | 260.2 | -8.0 | 0.191 |
| 4-3020 | 4-4120 | 0.347 | 27.1 | 24.9 | 3.44 | 1.291 | 82.7 | 0.689 | 3.180 | 18.0 | 183.5 | --- | 5.371 | -4.31 | 0.244 | 82.4 | 260.1 | -8.4 | 0.192 |
| 4-3020 | 4-4140 | 0.346 | 27.6 | 27.2 | 3.96 | 1.291 | 83.0 | 0.689 | 3.189 | 17.1 | 184.1 | --- | 5.385 | -4.82 | 0.245 | 81.0 | 260.0 | -9.0 | 0.194 |
| 4-3020 | 4-4160 | 0.347 | 27.8 | 30.0 | 4.63 | 1.292 | 83.4 | 0.689 | 3.197 | 16.2 | 184.8 | --- | 5.401 | -5.47 | 0.246 | 79.6 | 259.9 | -9.8 | 0.195 |
| 4-3020 | 4-4180 | 0.349 | 27.6 | 33.5 | 5.49 | 1.292 | 83.8 | 0.690 | 3.207 | 15.3 | 185.4 | --- | 5.419 | -6.32 | 0.247 | 78.3 | 260.0 | -10.8 | 0.198 |
| 4-3020 | 4-4200 | 0.354 | 26.8 | 37.9 | 6.68 | 1.292 | 84.2 | 0.690 | 3.217 | 14.3 | 186.0 | --- | 5.437 | -7.49 | 0.248 | 77.0 | 260.1 | -12.1 | 0.200 |
| 4-3020 | 4-4220 | 0.366 | 24.8 | 43.8 | 8.40 | 1.293 | 84.5 | 0.691 | 3.227 | 13.4 | 186.6 | --- | 5.456 | -9.20 | 0.249 | 75.8 | 260.4 | -13.9 | 0.204 |
| 4-3020 | 4-4240 | 0.391 | 19.8 | 51.6 | 11.12 | 1.293 | 84.9 | 0.691 | 3.238 | 12.4 | 187.2 | --- | 5.475 | -11.90 | 0.251 | 74.7 | 260.8 | -16.8 | 0.210 |
| 4-3020 | 4-4260 | 0.450 | 6.0 | 62.0 | 16.02 | 1.293 | 85.3 | 0.692 | 3.249 | 11.5 | 187.7 | --- | 5.496 | -16.79 | 0.252 | 73.5 | 261.7 | -21.4 | 0.221 |
| 4-3020 | 4-4280 | 0.621 | 318.8 | 69.2 | 27.22 | 1.294 | 85.7 | 0.692 | 3.260 | 10.6 | 188.3 | --- | 5.518 | -27.97 | 0.253 | 72.4 | 264.0 | -29.5 | 0.254 |
| 4-3020 | 4-4300 | 1.254 | 264.5 | 45.5 | 64.87 | 1.294 | 85.9 | 0.693 | 3.272 | 10.0 | 188.8 | --- | 5.540 | -65.61 | 0.255 | 71.3 | 272.7 | -36.3 | 0.402 |
| 4-3020 | 4-4320 | 0.946 | 81.7 | -74.1 | -46.48 | 1.295 | 86.8 | 0.694 | 3.284 | 7.8 | 189.3 | --- | 5.561 | 45.75 | 0.257 | 70.4 | 269.3 | 29.4 | 0.322 |
| 4-3020 | 4-4340 | 0.555 | 65.9 | -47.8 | -23.34 | 1.295 | 87.1 | 0.695 | 3.296 | 7.0 | 189.8 | --- | 5.585 | 22.63 | 0.258 | 69.4 | 264.8 | 19.5 | 0.242 |
| 4-3020 | 4-4360 | 0.435 | 62.6 | -32.3 | -15.37 | 1.296 | 87.5 | 0.695 | 3.308 | 6.1 | 190.3 | --- | 5.608 | 14.67 | 0.260 | 68.5 | 263.9 | 12.8 | 0.224 |
| 4-3020 | 4-4380 | 0.385 | 61.7 | -22.2 | -11.49 | 1.296 | 87.9 | 0.696 | 3.320 | 5.0 | 190.8 | --- | 5.633 | 10.81 | 0.261 | 67.6 | 264.0 | 8.9 | 0.219 |
| 4-3020 | 4-4400 | 0.359 | 61.7 | -15.1 | -9.22 | 1.296 | 88.4 | 0.697 | 3.333 | 4.0 | 191.3 | --- | 5.657 | 8.56 | 0.263 | 66.7 | 264.4 | 6.4 | 0.218 |
| 4-3020 | 4-4420 | 0.345 | 62.3 | -10.0 | -7.73 | 1.297 | 88.8 | 0.698 | 3.346 | 2.9 | 191.7 | --- | 5.682 | 7.08 | 0.265 | 65.8 | 264.9 | 4.8 | 0.218 |
| 4-3020 | 4-4440 | 0.336 | 63.3 | -6.0 | -6.68 | 1.297 | 89.2 | 0.699 | 3.359 | 1.9 | 192.2 | --- | 5.708 | 6.04 | 0.267 | 65.0 | 265.5 | 3.6 | 0.219 |
| 4-3020 | 4-4460 | 0.330 | 64.5 | -2.9 | -5.90 | 1.298 | 89.7 | 0.701 | 3.372 | 0.8 | 192.6 | --- | 5.734 | 5.27 | 0.268 | 64.2 | 266.1 | 2.7 | 0.220 |
| 4-3020 | 4-4480 | 0.325 | 65.8 | -0.3 | -5.29 | 1.298 | 90.1 | 0.702 | 3.385 | 359.7 | 553.1 | 1.010 | 5.760 | 4.68 | 0.270 | 63.4 | 266.9 | 2.0 | 0.222 |
| 4-3020 | 4-4500 | 0.323 | 67.3 | 1.9 | -4.81 | 1.299 | 90.6 | 0.703 | 3.398 | 358.6 | 553.5 | 1.010 | 5.787 | 4.21 | 0.272 | 62.6 | 267.6 | 1.5 | 0.224 |
| 4-3020 | 4-4520 | 0.321 | 68.9 | 3.7 | -4.41 | 1.299 | 91.0 | 0.704 | 3.412 | 357.5 | 553.9 | 1.009 | 5.814 | 3.83 | 0.274 | 61.9 | 268.4 | 1.0 | 0.225 |
| 4-3020 | 4-4540 | 0.320 | 70.5 | 5.3 | -4.08 | 1.300 | 91.5 | 0.705 | 3.425 | 356.4 | 554.3 | 1.009 | 5.841 | 3.52 | 0.275 | 61.2 | 269.2 | 0.7 | 0.227 |
| 4-3020 | 4-4560 | 0.320 | 72.3 | 6.7 | -3.80 | 1.300 | 92.0 | 0.707 | 3.438 | 355.3 | 554.7 | 1.008 | 5.869 | 3.25 | 0.277 | 60.5 | 270.0 | 0.4 | 0.229 |
| 4-3020 | 4-4580 | 0.320 | 74.0 | 7.9 | -3.56 | 1.300 | 92.4 | 0.708 | 3.452 | 354.1 | 555.1 | 1.008 | 5.897 | 3.02 | 0.279 | 59.8 | 270.9 | 0.1 | 0.231 |
| 4-3020 | 4-4600 | 0.320 | 75.8 | 9.0 | -3.35 | 1.301 | 92.9 | 0.710 | 3.466 | 353.0 | 555.4 | 1.007 | 5.925 | 2.83 | 0.281 | 59.1 | 271.8 | -0.1 | 0.233 |
| 4-3020 | 4-4620 | 0.321 | 77.7 | 10.0 | -3.16 | 1.301 | 93.4 | 0.711 | 3.479 | 351.8 | 555.8 | 1.006 | 5.953 | 2.66 | 0.282 | 58.5 | 272.7 | -0.3 | 0.235 |
| 4-3030 | 4-3310 | 0.639 | 34.3 | 12.3 | -0.57 | 1.537 | 75.3 | 1.358 | -2.657 | 25.5 | 114.3 | --- | --- | -1.19 | 0.878 | 160.3 | 287.2 | -3.4 | 0.823 |
| 4-3030 | 4-3330 | 0.610 | 31.7 | 11.5 | -0.53 | 1.498 | 74.8 | 1.243 | -3.890 | 27.4 | 118.0 | --- | --- | -1.19 | 0.807 | 159.2 | 287.3 | -3.4 | 0.753 |
| 4-3030 | 4-3350 | 0.587 | 29.3 | 10.7 | -0.49 | 1.465 | 74.3 | 1.151 | -6.212 | 29.3 | 121.6 | --- | --- | -1.19 | 0.745 | 158.0 | 287.3 | -3.4 | 0.692 |
| 4-3030 | 4-3370 | 0.569 | 27.1 | 10.0 | -0.46 | 1.438 | 73.8 | 1.077 | 12.093 | 31.1 | 125.1 | --- | --- | -1.19 | 0.690 | 156.6 | 287.3 | -3.4 | 0.638 |
| 4-3030 | 4-3390 | 0.556 | 25.1 | 9.3 | -0.42 | 1.416 | 73.5 | 1.017 | 54.471 | 32.8 | 128.5 | --- | --- | -1.19 | 0.641 | 155.3 | 287.3 | -3.5 | 0.590 |
| 4-3030 | 4-3410 | 0.543 | 23.4 | 8.7 | -0.39 | 1.397 | 73.1 | 0.968 | 28.680 | 34.3 | 131.8 | --- | --- | -1.20 | 0.598 | 153.8 | 287.2 | -3.5 | 0.548 |
| 4-3030 | 4-3430 | 0.534 | 21.9 | 8.2 | -0.35 | 1.381 | 72.8 | 0.927 | 12.611 | 35.7 | 134.9 | --- | --- | -1.20 | 0.559 | 152.3 | 287.0 | -3.5 | 0.509 |
| 4-3030 | 4-3450 | 0.526 | 20.6 | 7.8 | -0.31 | 1.367 | 72.6 | 0.894 | 8.581 | 37.0 | 137.8 | --- | --- | -1.21 | 0.524 | 150.6 | 286.7 | -3.6 | 0.475 |
| 4-3030 | 4-3470 | 0.520 | 19.4 | 7.5 | -0.28 | 1.356 | 72.4 | 0.866 | 6.761 | 38.0 | 140.6 | --- | --- | -1.22 | 0.492 | 148.9 | 286.4 | -3.6 | 0.444 |
| 4-3030 | 4-3490 | 0.514 | 18.5 | 7.2 | -0.24 | 1.346 | 72.2 | 0.842 | 5.732 | 39.0 | 143.3 | --- | --- | -1.23 | 0.464 | 147.2 | 286.0 | -3.7 | 0.416 |
| 4-3030 | 4-3510 | 0.509 | 17.7 | 7.0 | -0.20 | 1.337 | 72.1 | 0.822 | 5.077 | 39.8 | 145.8 | --- | --- | -1.24 | 0.438 | 145.3 | 285.5 | -3.7 | 0.391 |
| 4-3030 | 4-3530 | 0.505 | 17.0 | 6.8 | -0.16 | 1.330 | 72.1 | 0.805 | 4.626 | 40.4 | 148.2 | --- | --- | -1.25 | 0.415 | 143.4 | 284.9 | -3.8 | 0.368 |
| 4-3030 | 4-3550 | 0.501 | 16.5 | 6.7 | -0.12 | 1.324 | 72.0 | 0.791 | 4.300 | 41.0 | 150.4 | --- | --- | -1.26 | 0.394 | 141.4 | 284.3 | -3.9 | 0.348 |
| 4-3030 | 4-3570 | 0.497 | 16.1 | 6.6 | -0.08 | 1.319 | 72.0 | 0.779 | 4.056 | 41.4 | 152.5 | --- | --- | -1.27 | 0.376 | 139.3 | 283.6 | -3.9 | 0.329 |
| 4-3030 | 4-3590 | 0.493 | 15.7 | 6.6 | -0.04 | 1.314 | 72.0 | 0.768 | 3.868 | 41.7 | 154.5 | --- | --- | -1.29 | 0.359 | 137.2 | 282.8 | -4.0 | 0.312 |
| 4-3030 | 4-3610 | 0.490 | 15.5 | 6.6 | -0.00 | 1.310 | 72.1 | 0.759 | 3.721 | 41.9 | 156.3 | --- | --- | -1.31 | 0.343 | 135.0 | 281.9 | -4.1 | 0.297 |
| 4-3030 | 4-3630 | 0.486 | 15.4 | 6.7 | 0.04 | 1.307 | 72.1 | 0.751 | 3.603 | 42.0 | 158.1 | --- | --- | -1.32 | 0.329 | 132.7 | 281.0 | -4.1 | 0.283 |
| 4-3030 | 4-3650 | 0.482 | 15.3 | 6.8 | 0.09 | 1.304 | 72.2 | 0.744 | 3.508 | 42.0 | 159.8 | --- | --- | -1.34 | 0.317 | 130.5 | 280.0 | -4.2 | 0.271 |
| 4-3030 | 4-3670 | 0.479 | 15.3 | 6.9 | 0.13 | 1.302 | 72.3 | 0.738 | 3.431 | 41.9 | 161.4 | --- | --- | -1.36 | 0.306 | 128.1 | 278.9 | -4.3 | 0.259 |
| 4-3030 | 4-3690 | 0.475 | 15.4 | 7.0 | 0.18 | 1.299 | 72.5 | 0.733 | 3.368 | 41.7 | 162.9 | --- | --- | -1.39 | 0.296 | 125.8 | 277.8 | -4.4 | 0.249 |
| 4-3030 | 4-3710 | 0.471 | 15.5 | 7.2 | 0.22 | 1.298 | 72.6 | 0.728 | 3.316 | 41.5 | 164.3 | --- | --- | -1.41 | 0.287 | 123.4 | 276.6 | -4.5 | 0.240 |
| 4-3030 | 4-3730 | 0.468 | 15.7 | 7.5 | 0.27 | 1.296 | 72.8 | 0.724 | 3.273 | 41.2 | 165.7 | --- | --- | -1.44 | 0.279 | 121.0 | 275.4 | -4.5 | 0.233 |
| 4-3030 | 4-3750 | 0.464 | 15.9 | 7.7 | 0.33 | 1.295 | 73.0 | 0.721 | 3.238 | 40.9 | 167.0 | --- | --- | -1.47 | 0.272 | 118.6 | 274.2 | -4.6 | 0.226 |
| 4-3030 | 4-3770 | 0.460 | 16.2 | 8.0 | 0.38 | 1.294 | 73.2 | 0.718 | 3.210 | 40.5 | 168.2 | --- | --- | -1.50 | 0.266 | 116.2 | 273.0 | -4.7 | 0.219 |
| 4-3030 | 4-3790 | 0.456 | 16.5 | 8.3 | 0.43 | 1.293 | 73.5 | 0.715 | 3.186 | 40.0 | 169.4 | --- | --- | -1.54 | 0.260 | 113.8 | 271.8 | -4.8 | 0.214 |
| 4-3030 | 4-3810 | 0.452 | 16.8 | 8.6 | 0.49 | 1.292 | 73.7 | 0.712 | 3.168 | 39.5 | 170.5 | --- | --- | -1.57 | 0.256 | 111.5 | 270.6 | -4.9 | 0.209 |
| 4-3030 | 4-3830 | 0.448 | 17.2 | 9.0 | 0.55 | 1.292 | 73.9 | 0.710 | 3.153 | 39.0 | 171.6 | --- | --- | -1.61 | 0.252 | 109.2 | 269.4 | -4.9 | 0.205 |
| 4-3030 | 4-3850 | 0.444 | 17.7 | 9.4 | 0.62 | 1.291 | 74.2 | 0.708 | 3.141 | 38.4 | 172.7 | --- | --- | -1.66 | 0.249 | 106.9 | 268.3 | -5.0 | 0.202 |
| 4-3030 | 4-3870 | 0.440 | 18.1 | 9.8 | 0.68 | 1.291 | 74.5 | 0.706 | 3.133 | 37.8 | 173.7 | --- | --- | -1.71 | 0.246 | 104.7 | 267.2 | -5.1 | 0.199 |
| 4-3030 | 4-3890 | 0.435 | 18.6 | 10.2 | 0.76 | 1.291 | 74.8 | 0.705 | 3.127 | 37.1 | 174.6 | --- | --- | -1.76 | 0.244 | 102.5 | 266.2 | -5.2 | 0.197 |
| 4-3030 | 4-3910 | 0.431 | 19.2 | 10.7 | 0.83 | 1.290 | 75.1 | 0.703 | 3.123 | 36.4 | 175.6 | --- | --- | -1.81 | 0.242 | 100.4 | 265.2 | -5.3 | 0.195 |
| 4-3030 | 4-3930 | 0.427 | 19.7 | 11.2 | 0.91 | 1.290 | 75.4 | 0.702 | 3.121 | 35.7 | 176.4 | --- | --- | -1.88 | 0.240 | 98.3 | 264.3 | -5.4 | 0.194 |
| 4-3030 | 4-3950 | 0.422 | 20.3 | 11.8 | 1.00 | 1.290 | 75.7 | 0.701 | 3.121 | 35.0 | 177.3 | --- | --- | -1.94 | 0.239 | 96.3 | 263.5 | -5.4 | 0.193 |
| 4-3030 | 4-3970 | 0.418 | 21.0 | 12.3 | 1.09 | 1.290 | 76.0 | 0.700 | 3.122 | 34.2 | 178.1 | --- | --- | -2.02 | 0.239 | 94.3 | 262.8 | -5.5 | 0.192 |
| 4-3030 | 4-3990 | 0.414 | 21.6 | 13.0 | 1.19 | 1.291 | 76.3 | 0.700 | 3.125 | 33.4 | 178.9 | --- | --- | -2.10 | 0.238 | 92.5 | 262.1 | -5.6 | 0.192 |
| 4-3030 | 4-4010 | 0.410 | 22.3 | 13.6 | 1.30 | 1.291 | 76.7 | 0.699 | 3.129 | 32.6 | 179.7 | --- | --- | -2.19 | 0.238 | 90.7 | 261.5 | -5.8 | 0.192 |
| 4-3030 | 4-4030 | 0.405 | 23.0 | 14.3 | 1.41 | 1.291 | 77.0 | 0.698 | 3.134 | 31.8 | 180.5 | --- | 5.322 | -2.29 | 0.238 | 88.9 | 261.0 | -5.9 | 0.192 |
| 4-3030 | 4-4050 | 0.401 | 23.7 | 15.1 | 1.54 | 1.291 | 77.4 | 0.698 | 3.140 | 30.9 | 181.2 | --- | 5.331 | -2.40 | 0.238 | 87.2 | 260.6 | -6.0 | 0.192 |
| 4-3030 | 4-4070 | 0.397 | 24.4 | 15.9 | 1.68 | 1.291 | 77.7 | 0.698 | 3.146 | 30.1 | 181.9 | --- | 5.341 | -2.52 | 0.239 | 85.6 | 260.2 | -6.1 | 0.193 |
| 4-3030 | 4-4090 | 0.393 | 25.2 | 16.8 | 1.84 | 1.292 | 78.1 | 0.697 | 3.154 | 29.2 | 182.6 | --- | 5.353 | -2.66 | 0.240 | 84.1 | 260.0 | -6.3 | 0.193 |
| 4-3030 | 4-4110 | 0.389 | 25.9 | 17.8 | 2.01 | 1.292 | 78.4 | 0.697 | 3.162 | 28.3 | 183.3 | --- | 5.366 | -2.81 | 0.241 | 82.6 | 259.8 | -6.5 | 0.194 |
| 4-3030 | 4-4130 | 0.385 | 26.7 | 18.8 | 2.20 | 1.292 | 78.8 | 0.697 | 3.171 | 27.3 | 183.9 | --- | 5.380 | -2.99 | 0.242 | 81.1 | 259.7 | -6.7 | 0.195 |
| 4-3030 | 4-4150 | 0.381 | 27.5 | 20.0 | 2.42 | 1.293 | 79.2 | 0.697 | 3.180 | 26.4 | 184.5 | --- | 5.396 | -3.19 | 0.243 | 79.8 | 259.7 | -6.9 | 0.197 |
| 4-3030 | 4-4170 | 0.378 | 28.2 | 21.2 | 2.67 | 1.293 | 79.6 | 0.697 | 3.190 | 25.5 | 185.2 | --- | 5.413 | -3.43 | 0.244 | 78.4 | 259.7 | -7.2 | 0.198 |
| 4-3030 | 4-4190 | 0.374 | 29.0 | 22.7 | 2.96 | 1.293 | 80.0 | 0.697 | 3.200 | 24.5 | 185.8 | --- | 5.431 | -3.70 | 0.245 | 77.2 | 259.8 | -7.5 | 0.199 |
| 4-3030 | 4-4210 | 0.371 | 29.7 | 24.3 | 3.30 | 1.294 | 80.4 | 0.697 | 3.211 | 23.5 | 186.3 | --- | 5.449 | -4.02 | 0.246 | 75.9 | 259.9 | -7.8 | 0.201 |
| 4-3030 | 4-4230 | 0.369 | 30.3 | 26.1 | 3.71 | 1.294 | 80.8 | 0.697 | 3.222 | 22.5 | 186.9 | --- | 5.469 | -4.41 | 0.248 | 74.8 | 260.2 | -8.2 | 0.202 |
| 4-3030 | 4-4250 | 0.367 | 30.8 | 28.3 | 4.20 | 1.295 | 81.2 | 0.697 | 3.234 | 21.6 | 187.5 | --- | 5.489 | -4.88 | 0.249 | 73.6 | 260.5 | -8.8 | 0.204 |
| 4-3030 | 4-4270 | 0.366 | 31.2 | 30.8 | 4.80 | 1.295 | 81.6 | 0.698 | 3.245 | 20.6 | 188.0 | --- | 5.510 | -5.47 | 0.251 | 72.6 | 260.8 | -9.4 | 0.206 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3030 | 4-4290 | 0.367 | 31.3 | 33.9 | 5.57 | 1.296 | 82.0 | 0.698 | 3.257 | 19.5 | 188.5 | --- | 5.531 | -6.23 | 0.253 | 71.5 | 261.2 | -10.2 | 0.208 |
| 4-3030 | 4-4310 | 0.370 | 30.9 | 37.7 | 6.59 | 1.296 | 82.4 | 0.698 | 3.270 | 18.5 | 189.0 | --- | 5.553 | -7.23 | 0.254 | 70.5 | 261.7 | -11.3 | 0.211 |
| 4-3030 | 4-4330 | 0.377 | 29.8 | 42.5 | 7.99 | 1.296 | 82.8 | 0.699 | 3.282 | 17.5 | 189.5 | --- | 5.576 | -8.61 | 0.256 | 69.5 | 262.3 | -12.7 | 0.214 |
| 4-3030 | 4-4350 | 0.393 | 26.8 | 48.8 | 10.05 | 1.297 | 83.2 | 0.699 | 3.295 | 16.5 | 190.0 | --- | 5.599 | -10.65 | 0.258 | 68.6 | 263.0 | -14.8 | 0.218 |
| 4-3030 | 4-4370 | 0.427 | 19.6 | 57.0 | 13.35 | 1.297 | 83.6 | 0.700 | 3.308 | 15.5 | 190.5 | --- | 5.623 | -13.94 | 0.259 | 67.7 | 264.0 | -17.9 | 0.225 |
| 4-3030 | 4-4390 | 0.508 | 358.3 | 66.7 | 19.46 | 1.298 | 84.0 | 0.701 | 3.321 | 14.5 | 191.0 | --- | 5.647 | -20.04 | 0.261 | 66.8 | 265.6 | -23.1 | 0.240 |
| 4-3030 | 4-4410 | 0.740 | 302.1 | 66.6 | 33.96 | 1.298 | 84.4 | 0.701 | 3.334 | 13.6 | 191.5 | --- | 5.672 | -34.52 | 0.263 | 66.0 | 269.6 | -31.5 | 0.286 |
| 4-3030 | 4-4430 | 1.493 | 267.3 | 35.1 | 79.97 | 1.299 | 84.6 | 0.702 | 3.347 | 13.1 | 191.9 | --- | 5.698 | -80.51 | 0.265 | 65.1 | 281.6 | -33.7 | 0.465 |
| 4-3030 | 4-4450 | 0.880 | 70.8 | -69.6 | -42.33 | 1.299 | 85.6 | 0.702 | 3.361 | 10.6 | 192.3 | --- | 5.721 | 41.80 | 0.267 | 64.4 | 273.0 | 27.5 | 0.315 |
| 4-3030 | 4-4470 | 0.557 | 66.9 | -46.0 | -23.12 | 1.300 | 86.0 | 0.703 | 3.374 | 9.7 | 192.8 | --- | 5.747 | 22.61 | 0.268 | 63.7 | 269.1 | 18.4 | 0.253 |
| 4-3030 | 4-4490 | 0.445 | 65.6 | -31.5 | -15.69 | 1.300 | 86.4 | 0.704 | 3.388 | 8.7 | 193.2 | --- | 5.773 | 15.20 | 0.270 | 62.9 | 268.5 | 12.3 | 0.237 |
| 4-3030 | 4-4510 | 0.395 | 65.4 | -21.8 | -11.88 | 1.301 | 86.9 | 0.705 | 3.401 | 7.6 | 193.6 | --- | 5.799 | 11.40 | 0.272 | 62.2 | 268.7 | 8.7 | 0.233 |
| 4-3030 | 4-4530 | 0.369 | 65.9 | -14.9 | -9.58 | 1.301 | 87.3 | 0.706 | 3.415 | 6.5 | 194.0 | --- | 5.826 | 9.12 | 0.274 | 61.5 | 269.3 | 6.4 | 0.231 |
| 4-3030 | 4-4550 | 0.353 | 66.8 | -9.8 | -8.05 | 1.302 | 87.8 | 0.707 | 3.429 | 5.4 | 194.4 | --- | 5.853 | 7.60 | 0.276 | 60.8 | 270.0 | 4.9 | 0.231 |
| 4-3030 | 4-4570 | 0.343 | 67.9 | -5.8 | -6.95 | 1.302 | 88.2 | 0.708 | 3.443 | 4.3 | 194.8 | --- | 5.880 | 6.52 | 0.278 | 60.2 | 270.8 | 3.7 | 0.232 |
| 4-3030 | 4-4590 | 0.335 | 69.3 | -2.6 | -6.12 | 1.302 | 88.7 | 0.709 | 3.457 | 3.2 | 195.2 | --- | 5.907 | 5.71 | 0.280 | 59.5 | 271.6 | 2.8 | 0.233 |
| 4-3030 | 4-4610 | 0.330 | 70.8 | -0.1 | -5.48 | 1.303 | 89.2 | 0.710 | 3.471 | 2.0 | 195.6 | --- | 5.935 | 5.08 | 0.281 | 58.9 | 272.5 | 2.2 | 0.234 |
| 4-3030 | 4-4630 | 0.327 | 72.4 | 2.1 | -4.96 | 1.303 | 89.6 | 0.711 | 3.485 | 0.9 | 195.9 | --- | 5.963 | 4.58 | 0.283 | 58.3 | 273.4 | 1.6 | 0.236 |
| 4-3040 | 4-3380 | 0.647 | 24.0 | 9.0 | -0.44 | 1.428 | 67.6 | 1.042 | 20.568 | 43.8 | 128.9 | --- | --- | -1.27 | 0.664 | 156.9 | 286.5 | -3.5 | 0.620 |
| 4-3040 | 4-3400 | 0.634 | 22.5 | 8.5 | -0.40 | 1.407 | 67.4 | 0.990 | 86.612 | 45.4 | 132.3 | --- | --- | -1.26 | 0.617 | 155.5 | 286.4 | -3.5 | 0.574 |
| 4-3040 | 4-3420 | 0.623 | 21.1 | 8.1 | -0.36 | 1.389 | 67.2 | 0.948 | 16.289 | 46.9 | 135.6 | --- | --- | -1.26 | 0.575 | 154.0 | 286.1 | -3.5 | 0.533 |
| 4-3040 | 4-3440 | 0.614 | 20.0 | 7.7 | -0.33 | 1.374 | 67.1 | 0.913 | 9.719 | 48.2 | 138.5 | --- | --- | -1.26 | 0.537 | 152.4 | 285.9 | -3.6 | 0.496 |
| 4-3040 | 4-3460 | 0.607 | 19.1 | 7.4 | -0.29 | 1.361 | 66.9 | 0.884 | 7.265 | 49.4 | 141.4 | --- | --- | -1.26 | 0.503 | 150.8 | 285.5 | -3.6 | 0.463 |
| 4-3040 | 4-3480 | 0.600 | 18.3 | 7.2 | -0.25 | 1.351 | 66.9 | 0.860 | 5.992 | 50.3 | 144.0 | --- | --- | -1.27 | 0.472 | 149.0 | 285.1 | -3.7 | 0.434 |
| 4-3040 | 4-3500 | 0.594 | 17.6 | 7.0 | -0.21 | 1.341 | 66.8 | 0.840 | 5.220 | 51.1 | 146.6 | --- | --- | -1.27 | 0.445 | 147.2 | 284.5 | -3.7 | 0.407 |
| 4-3040 | 4-3520 | 0.588 | 17.1 | 6.9 | -0.17 | 1.334 | 66.8 | 0.823 | 4.706 | 51.8 | 148.9 | --- | --- | -1.27 | 0.420 | 145.2 | 283.9 | -3.8 | 0.383 |
| 4-3040 | 4-3540 | 0.583 | 16.7 | 6.8 | -0.14 | 1.327 | 66.8 | 0.809 | 4.343 | 52.3 | 151.1 | --- | --- | -1.28 | 0.398 | 143.2 | 283.3 | -3.8 | 0.361 |
| 4-3040 | 4-3560 | 0.579 | 16.3 | 6.7 | -0.10 | 1.321 | 66.9 | 0.797 | 4.075 | 52.7 | 153.2 | --- | --- | -1.28 | 0.377 | 141.2 | 282.5 | -3.9 | 0.342 |
| 4-3040 | 4-3580 | 0.574 | 16.1 | 6.7 | -0.06 | 1.316 | 66.9 | 0.786 | 3.872 | 53.0 | 155.2 | --- | --- | -1.29 | 0.359 | 139.0 | 281.7 | -3.9 | 0.324 |
| 4-3040 | 4-3600 | 0.569 | 15.9 | 6.7 | -0.02 | 1.312 | 67.0 | 0.777 | 3.714 | 53.1 | 157.0 | --- | --- | -1.30 | 0.343 | 136.8 | 280.8 | -4.0 | 0.308 |
| 4-3040 | 4-3620 | 0.565 | 15.8 | 6.8 | 0.02 | 1.309 | 67.1 | 0.769 | 3.589 | 53.2 | 158.8 | --- | --- | -1.31 | 0.328 | 134.5 | 279.9 | -4.1 | 0.293 |
| 4-3040 | 4-3640 | 0.560 | 15.8 | 6.9 | 0.06 | 1.305 | 67.3 | 0.762 | 3.489 | 53.2 | 160.4 | --- | --- | -1.32 | 0.315 | 132.2 | 278.9 | -4.1 | 0.280 |
| 4-3040 | 4-3660 | 0.556 | 15.8 | 7.0 | 0.10 | 1.303 | 67.4 | 0.756 | 3.408 | 53.0 | 161.9 | --- | --- | -1.33 | 0.303 | 129.8 | 277.8 | -4.2 | 0.269 |
| 4-3040 | 4-3680 | 0.552 | 15.9 | 7.1 | 0.14 | 1.301 | 67.6 | 0.750 | 3.343 | 52.8 | 163.4 | --- | --- | -1.35 | 0.292 | 127.3 | 276.7 | -4.3 | 0.258 |
| 4-3040 | 4-3700 | 0.547 | 16.1 | 7.3 | 0.18 | 1.299 | 67.8 | 0.746 | 3.289 | 52.6 | 164.8 | --- | --- | -1.36 | 0.283 | 124.9 | 275.5 | -4.3 | 0.249 |
| 4-3040 | 4-3720 | 0.542 | 16.3 | 7.5 | 0.23 | 1.297 | 68.0 | 0.742 | 3.245 | 52.2 | 166.1 | --- | --- | -1.38 | 0.275 | 122.4 | 274.4 | -4.4 | 0.241 |
| 4-3040 | 4-3740 | 0.538 | 16.5 | 7.7 | 0.27 | 1.296 | 68.3 | 0.738 | 3.209 | 51.9 | 167.4 | --- | --- | -1.40 | 0.267 | 119.9 | 273.2 | -4.4 | 0.234 |
| 4-3040 | 4-3760 | 0.533 | 16.7 | 7.9 | 0.32 | 1.295 | 68.5 | 0.734 | 3.180 | 51.4 | 168.6 | --- | --- | -1.42 | 0.261 | 117.4 | 272.0 | -4.5 | 0.227 |
| 4-3040 | 4-3780 | 0.528 | 17.0 | 8.1 | 0.36 | 1.294 | 68.8 | 0.731 | 3.156 | 50.9 | 169.7 | --- | --- | -1.44 | 0.255 | 114.9 | 270.8 | -4.6 | 0.222 |
| 4-3040 | 4-3800 | 0.524 | 17.4 | 8.4 | 0.41 | 1.293 | 69.0 | 0.729 | 3.138 | 50.4 | 170.8 | --- | --- | -1.46 | 0.250 | 112.5 | 269.6 | -4.6 | 0.217 |
| 4-3040 | 4-3820 | 0.519 | 17.7 | 8.7 | 0.46 | 1.293 | 69.3 | 0.726 | 3.123 | 49.8 | 171.9 | --- | --- | -1.49 | 0.246 | 110.1 | 268.5 | -4.7 | 0.213 |
| 4-3040 | 4-3840 | 0.514 | 18.1 | 9.0 | 0.51 | 1.292 | 69.6 | 0.724 | 3.112 | 49.2 | 172.9 | --- | --- | -1.52 | 0.243 | 107.7 | 267.4 | -4.7 | 0.209 |
| 4-3040 | 4-3860 | 0.509 | 18.6 | 9.3 | 0.56 | 1.292 | 69.9 | 0.722 | 3.103 | 48.5 | 173.8 | --- | --- | -1.55 | 0.240 | 105.4 | 266.4 | -4.8 | 0.206 |
| 4-3040 | 4-3880 | 0.504 | 19.0 | 9.7 | 0.62 | 1.292 | 70.2 | 0.720 | 3.097 | 47.8 | 174.8 | --- | --- | -1.58 | 0.238 | 103.1 | 265.4 | -4.9 | 0.204 |
| 4-3040 | 4-3900 | 0.499 | 19.5 | 10.0 | 0.67 | 1.291 | 70.5 | 0.719 | 3.094 | 47.1 | 175.7 | --- | --- | -1.61 | 0.236 | 100.9 | 264.5 | -4.9 | 0.202 |
| 4-3040 | 4-3920 | 0.494 | 20.0 | 10.4 | 0.73 | 1.291 | 70.9 | 0.717 | 3.092 | 46.3 | 176.5 | --- | --- | -1.65 | 0.235 | 98.7 | 263.6 | -5.0 | 0.200 |
| 4-3040 | 4-3940 | 0.489 | 20.5 | 10.8 | 0.80 | 1.291 | 71.2 | 0.716 | 3.093 | 45.6 | 177.4 | --- | --- | -1.69 | 0.234 | 96.6 | 262.8 | -5.0 | 0.199 |
| 4-3040 | 4-3960 | 0.483 | 21.1 | 11.2 | 0.86 | 1.291 | 71.5 | 0.715 | 3.095 | 44.8 | 178.2 | --- | --- | -1.74 | 0.233 | 94.6 | 262.1 | -5.1 | 0.198 |
| 4-3040 | 4-3980 | 0.478 | 21.7 | 11.7 | 0.93 | 1.292 | 71.9 | 0.714 | 3.098 | 44.0 | 178.9 | --- | --- | -1.78 | 0.233 | 92.7 | 261.5 | -5.1 | 0.197 |
| 4-3040 | 4-4000 | 0.473 | 22.3 | 12.1 | 1.00 | 1.292 | 72.2 | 0.713 | 3.102 | 43.1 | 179.7 | --- | --- | -1.84 | 0.233 | 90.8 | 260.9 | -5.2 | 0.197 |
| 4-3040 | 4-4020 | 0.468 | 22.9 | 12.6 | 1.08 | 1.292 | 72.6 | 0.712 | 3.108 | 42.3 | 180.4 | --- | 5.319 | -1.89 | 0.233 | 89.0 | 260.5 | -5.3 | 0.197 |
| 4-3040 | 4-4040 | 0.462 | 23.5 | 13.2 | 1.16 | 1.292 | 73.0 | 0.711 | 3.114 | 41.4 | 181.1 | --- | 5.327 | -1.95 | 0.233 | 87.2 | 260.1 | -5.3 | 0.197 |
| 4-3040 | 4-4060 | 0.457 | 24.2 | 13.7 | 1.25 | 1.292 | 73.3 | 0.710 | 3.121 | 40.5 | 181.8 | --- | 5.338 | -2.02 | 0.234 | 85.6 | 259.8 | -5.4 | 0.198 |
| 4-3040 | 4-4080 | 0.452 | 24.9 | 14.3 | 1.34 | 1.293 | 73.7 | 0.709 | 3.129 | 39.6 | 182.5 | --- | 5.349 | -2.09 | 0.235 | 84.0 | 259.5 | -5.5 | 0.198 |
| 4-3040 | 4-4100 | 0.447 | 25.6 | 14.9 | 1.44 | 1.293 | 74.1 | 0.709 | 3.138 | 38.6 | 183.1 | --- | 5.362 | -2.17 | 0.236 | 82.5 | 259.4 | -5.6 | 0.199 |
| 4-3040 | 4-4120 | 0.442 | 26.3 | 15.6 | 1.54 | 1.293 | 74.5 | 0.708 | 3.147 | 37.7 | 183.8 | --- | 5.377 | -2.26 | 0.237 | 81.0 | 259.3 | -5.7 | 0.200 |
| 4-3040 | 4-4140 | 0.436 | 27.1 | 16.2 | 1.66 | 1.294 | 74.9 | 0.708 | 3.157 | 36.7 | 184.4 | --- | 5.392 | -2.36 | 0.238 | 79.6 | 259.2 | -5.8 | 0.201 |
| 4-3040 | 4-4160 | 0.431 | 27.8 | 17.0 | 1.78 | 1.294 | 75.3 | 0.708 | 3.168 | 35.8 | 185.0 | --- | 5.409 | -2.46 | 0.240 | 78.3 | 259.3 | -5.9 | 0.202 |
| 4-3040 | 4-4180 | 0.426 | 28.6 | 17.8 | 1.92 | 1.295 | 75.7 | 0.707 | 3.178 | 34.8 | 185.6 | --- | 5.427 | -2.58 | 0.241 | 77.0 | 259.4 | -6.0 | 0.203 |
| 4-3040 | 4-4200 | 0.421 | 29.4 | 18.6 | 2.07 | 1.295 | 76.1 | 0.707 | 3.190 | 33.8 | 186.1 | --- | 5.445 | -2.72 | 0.243 | 75.7 | 259.6 | -6.1 | 0.204 |
| 4-3040 | 4-4220 | 0.417 | 30.2 | 19.5 | 2.24 | 1.296 | 76.5 | 0.707 | 3.201 | 32.8 | 186.7 | --- | 5.464 | -2.87 | 0.244 | 74.6 | 259.8 | -6.3 | 0.205 |
| 4-3040 | 4-4240 | 0.412 | 31.0 | 20.5 | 2.43 | 1.296 | 76.9 | 0.707 | 3.213 | 31.8 | 187.2 | --- | 5.484 | -3.03 | 0.246 | 73.4 | 260.1 | -6.5 | 0.207 |
| 4-3040 | 4-4260 | 0.407 | 31.8 | 21.6 | 2.64 | 1.296 | 77.3 | 0.707 | 3.225 | 30.8 | 187.8 | --- | 5.505 | -3.23 | 0.248 | 72.3 | 260.4 | -6.7 | 0.208 |
| 4-3040 | 4-4280 | 0.403 | 32.6 | 22.8 | 2.87 | 1.297 | 77.7 | 0.707 | 3.238 | 29.8 | 188.3 | --- | 5.526 | -3.45 | 0.249 | 71.3 | 260.8 | -6.9 | 0.209 |
| 4-3040 | 4-4300 | 0.399 | 33.4 | 24.1 | 3.15 | 1.297 | 78.1 | 0.707 | 3.251 | 28.7 | 188.8 | --- | 5.548 | -3.70 | 0.251 | 70.3 | 261.3 | -7.2 | 0.211 |
| 4-3040 | 4-4320 | 0.395 | 34.2 | 25.6 | 3.46 | 1.298 | 78.6 | 0.707 | 3.264 | 27.7 | 189.3 | --- | 5.571 | -4.00 | 0.253 | 69.3 | 261.7 | -7.5 | 0.213 |
| 4-3040 | 4-4340 | 0.391 | 34.9 | 27.2 | 3.83 | 1.298 | 79.0 | 0.707 | 3.277 | 26.7 | 189.8 | --- | 5.593 | -4.35 | 0.255 | 68.4 | 262.3 | -7.9 | 0.214 |
| 4-3040 | 4-4360 | 0.389 | 35.6 | 29.1 | 4.27 | 1.299 | 79.4 | 0.707 | 3.290 | 25.6 | 190.2 | --- | 5.617 | -4.77 | 0.257 | 67.5 | 262.8 | -8.3 | 0.216 |
| 4-3040 | 4-4380 | 0.386 | 36.1 | 31.4 | 4.81 | 1.299 | 79.9 | 0.707 | 3.304 | 24.5 | 190.7 | --- | 5.641 | -5.29 | 0.259 | 66.7 | 263.5 | -8.8 | 0.218 |
| 4-3040 | 4-4400 | 0.385 | 36.5 | 34.0 | 5.47 | 1.300 | 80.3 | 0.708 | 3.317 | 23.5 | 191.2 | --- | 5.665 | -5.94 | 0.260 | 65.9 | 264.1 | -9.5 | 0.220 |
| 4-3040 | 4-4420 | 0.386 | 36.5 | 37.2 | 6.32 | 1.300 | 80.7 | 0.708 | 3.331 | 22.4 | 191.6 | --- | 5.689 | -6.77 | 0.262 | 65.1 | 264.9 | -10.3 | 0.222 |
| 4-3040 | 4-4440 | 0.390 | 36.1 | 41.1 | 7.44 | 1.301 | 81.2 | 0.708 | 3.345 | 21.3 | 192.1 | --- | 5.714 | -7.87 | 0.264 | 64.3 | 265.7 | -11.4 | 0.225 |
| 4-3040 | 4-4460 | 0.399 | 34.6 | 46.1 | 8.99 | 1.301 | 81.6 | 0.709 | 3.359 | 20.2 | 192.5 | --- | 5.739 | -9.40 | 0.266 | 63.6 | 266.5 | -12.9 | 0.228 |
| 4-3040 | 4-4480 | 0.417 | 31.1 | 52.6 | 11.27 | 1.302 | 82.1 | 0.709 | 3.373 | 19.2 | 192.9 | --- | 5.765 | -11.67 | 0.268 | 62.8 | 267.5 | -15.0 | 0.233 |
| 4-3040 | 4-4500 | 0.458 | 22.1 | 60.9 | 14.98 | 1.302 | 82.5 | 0.710 | 3.387 | 18.1 | 193.3 | --- | 5.791 | -15.36 | 0.270 | 62.1 | 268.9 | -18.3 | 0.241 |
| 4-3040 | 4-4520 | 0.553 | 354.3 | 69.5 | 21.94 | 1.303 | 82.9 | 0.710 | 3.402 | 17.1 | 193.7 | --- | 5.817 | -22.31 | 0.272 | 61.5 | 271.0 | -23.7 | 0.258 |
| 4-3040 | 4-4540 | 0.826 | 297.8 | 64.0 | 38.66 | 1.303 | 83.3 | 0.711 | 3.416 | 16.2 | 194.1 | --- | 5.844 | -39.01 | 0.274 | 60.8 | 276.4 | -32.0 | 0.311 |
| 4-3040 | 4-4560 | 1.612 | 273.6 | 30.0 | 87.85 | 1.304 | 83.4 | 0.712 | 3.430 | 15.8 | 194.6 | --- | 5.872 | -88.18 | 0.276 | 60.1 | 290.2 | -31.6 | 0.497 |
| 4-3040 | 4-4580 | 0.860 | 66.5 | -66.4 | -40.84 | 1.304 | 84.6 | 0.711 | 3.445 | 13.0 | 194.9 | --- | 5.895 | 40.52 | 0.278 | 59.6 | 278.3 | 26.2 | 0.319 |
| 4-3040 | 4-4600 | 0.564 | 68.8 | -44.4 | -23.18 | 1.305 | 85.0 | 0.712 | 3.459 | 12.1 | 195.3 | --- | 5.923 | 22.88 | 0.280 | 59.0 | 274.7 | 17.6 | 0.265 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3040 | 4-4620 | 0.455 | 69.0 | -30.4 | -15.94 | 1.305 | 85.4 | 0.713 | 3.473 | 11.0 | 195.7 | --- | 5.950 | 15.66 | 0.282 | 58.4 | 274.2 | 12.0 | 0.250 |
| 4-3040 | 4-4640 | 0.405 | 69.6 | -20.9 | -12.13 | 1.305 | 85.9 | 0.714 | 3.488 | 9.9 | 196.0 | --- | 5.977 | 11.86 | 0.284 | 57.9 | 274.6 | 8.6 | 0.245 |
| 4-3050 | 4-3390 | 0.742 | 22.8 | 8.8 | -0.43 | 1.418 | 61.2 | 1.01 | 169.633 | 57.3 | 133.5 | --- | --- | -1.34 | 0.638 | 157.5 | 285.3 | -3.5 | 0.605 |
| 4-3050 | 4-3410 | 0.728 | 21.7 | 8.4 | -0.39 | 1.398 | 61.1 | 0.96 | 823.891 | 58.9 | 136.8 | --- | --- | -1.33 | 0.592 | 156.0 | 285.0 | -3.5 | 0.560 |
| 4-3050 | 4-3430 | 0.717 | 20.7 | 8.1 | -0.35 | 1.381 | 61.1 | 0.93 | 311.318 | 60.2 | 139.8 | --- | --- | -1.32 | 0.550 | 154.5 | 284.7 | -3.6 | 0.521 |
| 4-3050 | 4-3450 | 0.707 | 20.0 | 7.9 | -0.31 | 1.367 | 61.0 | 0.904 | 7.873 | 61.3 | 142.7 | --- | --- | -1.32 | 0.514 | 152.9 | 284.3 | -3.6 | 0.485 |
| 4-3050 | 4-3470 | 0.698 | 19.3 | 7.7 | -0.27 | 1.355 | 61.1 | 0.880 | 6.277 | 62.3 | 145.4 | --- | --- | -1.31 | 0.481 | 151.2 | 283.8 | -3.6 | 0.454 |
| 4-3050 | 4-3490 | 0.691 | 18.8 | 7.5 | -0.23 | 1.345 | 61.1 | 0.860 | 5.363 | 63.1 | 147.9 | --- | --- | -1.31 | 0.451 | 149.3 | 283.3 | -3.7 | 0.425 |
| 4-3050 | 4-3510 | 0.684 | 18.4 | 7.4 | -0.19 | 1.337 | 61.2 | 0.844 | 4.778 | 63.7 | 150.2 | --- | --- | -1.30 | 0.424 | 147.4 | 282.6 | -3.7 | 0.400 |
| 4-3050 | 4-3530 | 0.677 | 18.0 | 7.4 | -0.15 | 1.330 | 61.3 | 0.830 | 4.374 | 64.2 | 152.4 | --- | --- | -1.30 | 0.400 | 145.4 | 281.9 | -3.8 | 0.377 |
| 4-3050 | 4-3550 | 0.671 | 17.8 | 7.3 | -0.12 | 1.323 | 61.4 | 0.817 | 4.082 | 64.5 | 154.4 | --- | --- | -1.30 | 0.378 | 143.4 | 281.2 | -3.8 | 0.356 |
| 4-3050 | 4-3570 | 0.665 | 17.6 | 7.3 | -0.08 | 1.318 | 61.5 | 0.807 | 3.863 | 64.7 | 156.3 | --- | --- | -1.30 | 0.359 | 141.2 | 280.3 | -3.9 | 0.337 |
| 4-3050 | 4-3590 | 0.659 | 17.6 | 7.4 | -0.04 | 1.314 | 61.7 | 0.798 | 3.695 | 64.8 | 158.1 | --- | --- | -1.30 | 0.341 | 138.9 | 279.4 | -3.9 | 0.321 |
| 4-3050 | 4-3610 | 0.654 | 17.5 | 7.4 | -0.00 | 1.310 | 61.8 | 0.790 | 3.563 | 64.8 | 159.7 | --- | --- | -1.31 | 0.325 | 136.6 | 278.4 | -4.0 | 0.305 |
| 4-3050 | 4-3630 | 0.648 | 17.5 | 7.5 | 0.04 | 1.307 | 62.0 | 0.783 | 3.459 | 64.7 | 161.3 | --- | --- | -1.31 | 0.311 | 134.2 | 277.4 | -4.0 | 0.292 |
| 4-3050 | 4-3650 | 0.643 | 17.6 | 7.6 | 0.08 | 1.304 | 62.3 | 0.777 | 3.375 | 64.5 | 162.8 | --- | --- | -1.31 | 0.298 | 131.7 | 276.4 | -4.1 | 0.280 |
| 4-3050 | 4-3670 | 0.637 | 17.7 | 7.8 | 0.12 | 1.302 | 62.5 | 0.772 | 3.307 | 64.3 | 164.2 | --- | --- | -1.32 | 0.287 | 129.2 | 275.2 | -4.1 | 0.269 |
| 4-3050 | 4-3690 | 0.632 | 17.9 | 7.9 | 0.15 | 1.300 | 62.7 | 0.767 | 3.252 | 63.9 | 165.5 | --- | --- | -1.33 | 0.277 | 126.6 | 274.1 | -4.2 | 0.259 |
| 4-3050 | 4-3710 | 0.626 | 18.1 | 8.1 | 0.19 | 1.298 | 63.0 | 0.763 | 3.207 | 63.5 | 166.8 | --- | --- | -1.34 | 0.268 | 124.0 | 273.0 | -4.2 | 0.251 |
| 4-3050 | 4-3730 | 0.621 | 18.3 | 8.2 | 0.23 | 1.297 | 63.3 | 0.759 | 3.171 | 63.1 | 168.0 | --- | --- | -1.35 | 0.261 | 121.4 | 271.8 | -4.3 | 0.243 |
| 4-3050 | 4-3750 | 0.615 | 18.6 | 8.4 | 0.27 | 1.295 | 63.6 | 0.755 | 3.142 | 62.6 | 169.1 | --- | --- | -1.36 | 0.254 | 118.8 | 270.6 | -4.3 | 0.237 |
| 4-3050 | 4-3770 | 0.610 | 18.9 | 8.6 | 0.32 | 1.294 | 63.8 | 0.752 | 3.118 | 62.0 | 170.2 | --- | --- | -1.37 | 0.248 | 116.2 | 269.5 | -4.4 | 0.231 |
| 4-3050 | 4-3790 | 0.604 | 19.2 | 8.9 | 0.36 | 1.294 | 64.2 | 0.749 | 3.099 | 61.4 | 171.3 | --- | --- | -1.38 | 0.243 | 113.6 | 268.4 | -4.4 | 0.226 |
| 4-3050 | 4-3810 | 0.598 | 19.6 | 9.1 | 0.40 | 1.293 | 64.5 | 0.746 | 3.085 | 60.8 | 172.3 | --- | --- | -1.40 | 0.239 | 111.1 | 267.3 | -4.5 | 0.221 |
| 4-3050 | 4-3830 | 0.593 | 19.9 | 9.4 | 0.44 | 1.293 | 64.8 | 0.744 | 3.074 | 60.1 | 173.2 | --- | --- | -1.41 | 0.235 | 108.5 | 266.2 | -4.5 | 0.218 |
| 4-3050 | 4-3850 | 0.587 | 20.3 | 9.6 | 0.49 | 1.292 | 65.1 | 0.742 | 3.066 | 59.4 | 174.2 | --- | --- | -1.43 | 0.232 | 106.1 | 265.2 | -4.5 | 0.214 |
| 4-3050 | 4-3870 | 0.581 | 20.8 | 9.9 | 0.53 | 1.292 | 65.5 | 0.740 | 3.061 | 58.7 | 175.0 | --- | --- | -1.45 | 0.230 | 103.6 | 264.3 | -4.6 | 0.212 |
| 4-3050 | 4-3890 | 0.575 | 21.2 | 10.2 | 0.58 | 1.292 | 65.8 | 0.738 | 3.058 | 57.9 | 175.9 | --- | --- | -1.47 | 0.228 | 101.3 | 263.4 | -4.6 | 0.210 |
| 4-3050 | 4-3910 | 0.569 | 21.7 | 10.5 | 0.63 | 1.292 | 66.2 | 0.736 | 3.057 | 57.1 | 176.7 | --- | --- | -1.50 | 0.227 | 99.0 | 262.6 | -4.7 | 0.208 |
| 4-3050 | 4-3930 | 0.563 | 22.2 | 10.8 | 0.67 | 1.292 | 66.5 | 0.734 | 3.058 | 56.3 | 177.5 | --- | --- | -1.52 | 0.226 | 96.8 | 261.9 | -4.7 | 0.207 |
| 4-3050 | 4-3950 | 0.557 | 22.7 | 11.2 | 0.73 | 1.292 | 66.9 | 0.733 | 3.060 | 55.5 | 178.3 | --- | --- | -1.55 | 0.226 | 94.7 | 261.2 | -4.7 | 0.206 |
| 4-3050 | 4-3970 | 0.551 | 23.2 | 11.5 | 0.78 | 1.292 | 67.3 | 0.731 | 3.064 | 54.6 | 179.0 | --- | --- | -1.58 | 0.225 | 92.7 | 260.7 | -4.8 | 0.205 |
| 4-3050 | 4-3990 | 0.545 | 23.7 | 11.9 | 0.83 | 1.293 | 67.6 | 0.730 | 3.069 | 53.8 | 179.7 | --- | --- | -1.61 | 0.226 | 90.7 | 260.2 | -4.8 | 0.204 |
| 4-3050 | 4-4010 | 0.539 | 24.3 | 12.2 | 0.89 | 1.293 | 68.0 | 0.729 | 3.075 | 52.9 | 180.4 | --- | 5.316 | -1.64 | 0.226 | 88.8 | 259.7 | -4.8 | 0.204 |
| 4-3050 | 4-4030 | 0.533 | 24.9 | 12.6 | 0.95 | 1.293 | 68.4 | 0.727 | 3.082 | 51.9 | 181.1 | --- | 5.324 | -1.68 | 0.227 | 87.0 | 259.4 | -4.9 | 0.204 |
| 4-3050 | 4-4050 | 0.527 | 25.5 | 13.0 | 1.01 | 1.293 | 68.8 | 0.726 | 3.090 | 51.0 | 181.8 | --- | 5.335 | -1.72 | 0.228 | 85.3 | 259.1 | -4.9 | 0.204 |
| 4-3050 | 4-4070 | 0.521 | 26.1 | 13.5 | 1.07 | 1.294 | 69.2 | 0.725 | 3.099 | 50.1 | 182.4 | --- | 5.347 | -1.76 | 0.229 | 83.7 | 258.9 | -5.0 | 0.205 |
| 4-3050 | 4-4090 | 0.515 | 26.7 | 13.9 | 1.14 | 1.294 | 69.6 | 0.724 | 3.108 | 49.1 | 183.0 | --- | 5.360 | -1.81 | 0.230 | 82.1 | 258.8 | -5.0 | 0.205 |
| 4-3050 | 4-4110 | 0.509 | 27.4 | 14.4 | 1.21 | 1.295 | 70.0 | 0.724 | 3.118 | 48.2 | 183.6 | --- | 5.374 | -1.85 | 0.231 | 80.6 | 258.7 | -5.1 | 0.206 |
| 4-3050 | 4-4130 | 0.503 | 28.0 | 14.9 | 1.28 | 1.295 | 70.4 | 0.723 | 3.129 | 47.2 | 184.2 | --- | 5.390 | -1.91 | 0.233 | 79.1 | 258.7 | -5.1 | 0.207 |
| 4-3050 | 4-4150 | 0.497 | 28.7 | 15.4 | 1.36 | 1.295 | 70.8 | 0.722 | 3.140 | 46.2 | 184.8 | --- | 5.407 | -1.97 | 0.234 | 77.8 | 258.8 | -5.2 | 0.207 |
| 4-3050 | 4-4170 | 0.491 | 29.4 | 15.9 | 1.45 | 1.296 | 71.2 | 0.721 | 3.151 | 45.2 | 185.4 | --- | 5.424 | -2.03 | 0.236 | 76.5 | 258.9 | -5.2 | 0.208 |
| 4-3050 | 4-4190 | 0.485 | 30.1 | 16.4 | 1.54 | 1.296 | 71.7 | 0.721 | 3.163 | 44.2 | 185.9 | --- | 5.443 | -2.10 | 0.237 | 75.2 | 259.1 | -5.3 | 0.209 |
| 4-3050 | 4-4210 | 0.479 | 30.9 | 17.0 | 1.63 | 1.297 | 72.1 | 0.720 | 3.175 | 43.2 | 186.5 | --- | 5.462 | -2.18 | 0.239 | 74.0 | 259.4 | -5.4 | 0.210 |
| 4-3050 | 4-4230 | 0.473 | 31.6 | 17.6 | 1.73 | 1.297 | 72.5 | 0.720 | 3.188 | 42.2 | 187.0 | --- | 5.482 | -2.26 | 0.241 | 72.9 | 259.6 | -5.5 | 0.212 |
| 4-3050 | 4-4250 | 0.467 | 32.4 | 18.3 | 1.85 | 1.298 | 72.9 | 0.719 | 3.201 | 41.1 | 187.5 | --- | 5.503 | -2.35 | 0.243 | 71.8 | 260.0 | -5.6 | 0.213 |
| 4-3050 | 4-4270 | 0.461 | 33.2 | 19.0 | 1.96 | 1.298 | 73.4 | 0.719 | 3.214 | 40.1 | 188.0 | --- | 5.524 | -2.45 | 0.245 | 70.8 | 260.4 | -5.7 | 0.214 |
| 4-3050 | 4-4290 | 0.455 | 34.0 | 19.7 | 2.10 | 1.299 | 73.8 | 0.719 | 3.227 | 39.0 | 188.5 | --- | 5.546 | -2.56 | 0.247 | 69.8 | 260.8 | -5.8 | 0.215 |
| 4-3050 | 4-4310 | 0.450 | 34.8 | 20.5 | 2.24 | 1.299 | 74.2 | 0.718 | 3.241 | 38.0 | 189.0 | --- | 5.568 | -2.69 | 0.249 | 68.8 | 261.3 | -5.9 | 0.217 |
| 4-3050 | 4-4330 | 0.444 | 35.6 | 21.3 | 2.39 | 1.300 | 74.7 | 0.718 | 3.254 | 36.9 | 189.5 | --- | 5.591 | -2.82 | 0.251 | 67.9 | 261.9 | -6.0 | 0.218 |
| 4-3050 | 4-4350 | 0.439 | 36.5 | 22.2 | 2.57 | 1.300 | 75.1 | 0.718 | 3.268 | 35.9 | 190.0 | --- | 5.614 | -2.98 | 0.253 | 67.0 | 262.4 | -6.2 | 0.219 |
| 4-3050 | 4-4370 | 0.433 | 37.3 | 23.2 | 2.76 | 1.301 | 75.6 | 0.718 | 3.282 | 34.8 | 190.4 | --- | 5.638 | -3.15 | 0.255 | 66.2 | 263.0 | -6.4 | 0.221 |
| 4-3050 | 4-4390 | 0.428 | 38.2 | 24.3 | 2.98 | 1.301 | 76.0 | 0.717 | 3.297 | 33.7 | 190.9 | --- | 5.662 | -3.35 | 0.257 | 65.4 | 263.7 | -6.6 | 0.222 |
| 4-3050 | 4-4410 | 0.423 | 39.0 | 25.5 | 3.23 | 1.302 | 76.4 | 0.717 | 3.311 | 32.6 | 191.3 | --- | 5.686 | -3.58 | 0.259 | 64.6 | 264.4 | -6.8 | 0.224 |
| 4-3050 | 4-4430 | 0.418 | 39.8 | 26.8 | 3.51 | 1.302 | 76.9 | 0.717 | 3.325 | 31.5 | 191.8 | --- | 5.710 | -3.85 | 0.261 | 63.8 | 265.1 | -7.1 | 0.225 |
| 4-3050 | 4-4450 | 0.414 | 40.7 | 28.2 | 3.84 | 1.303 | 77.3 | 0.717 | 3.340 | 30.4 | 192.2 | --- | 5.735 | -4.16 | 0.263 | 63.1 | 265.8 | -7.4 | 0.227 |
| 4-3050 | 4-4470 | 0.410 | 41.4 | 29.9 | 4.22 | 1.303 | 77.8 | 0.717 | 3.354 | 29.3 | 192.6 | --- | 5.761 | -4.52 | 0.265 | 62.4 | 266.6 | -7.7 | 0.228 |
| 4-3050 | 4-4490 | 0.407 | 42.1 | 31.8 | 4.68 | 1.304 | 78.3 | 0.717 | 3.369 | 28.2 | 193.0 | --- | 5.786 | -4.96 | 0.267 | 61.8 | 267.4 | -8.1 | 0.230 |
| 4-3050 | 4-4510 | 0.404 | 42.7 | 34.0 | 5.23 | 1.304 | 78.7 | 0.718 | 3.384 | 27.1 | 193.4 | --- | 5.812 | -5.50 | 0.269 | 61.1 | 268.3 | -8.7 | 0.232 |
| 4-3050 | 4-4530 | 0.403 | 43.2 | 36.6 | 5.92 | 1.305 | 79.2 | 0.718 | 3.399 | 26.0 | 193.8 | --- | 5.838 | -6.18 | 0.271 | 60.5 | 269.1 | -9.3 | 0.234 |
| 4-3050 | 4-4550 | 0.404 | 43.3 | 39.7 | 6.81 | 1.305 | 79.6 | 0.718 | 3.413 | 24.9 | 194.2 | --- | 5.864 | -7.04 | 0.273 | 59.9 | 270.1 | -10.1 | 0.236 |
| 4-3050 | 4-4570 | 0.408 | 42.9 | 43.7 | 7.97 | 1.306 | 80.1 | 0.718 | 3.428 | 23.8 | 194.6 | --- | 5.890 | -8.19 | 0.275 | 59.3 | 271.1 | -11.2 | 0.238 |
| 4-3050 | 4-4590 | 0.417 | 41.5 | 48.7 | 9.59 | 1.306 | 80.5 | 0.718 | 3.443 | 22.7 | 195.0 | --- | 5.917 | -9.79 | 0.277 | 58.7 | 272.1 | -12.7 | 0.241 |
| 4-3050 | 4-4610 | 0.436 | 37.9 | 55.2 | 11.99 | 1.307 | 81.0 | 0.719 | 3.458 | 21.5 | 195.4 | --- | 5.943 | -12.17 | 0.279 | 58.2 | 273.4 | -14.8 | 0.246 |
| 4-3050 | 4-4630 | 0.479 | 28.2 | 63.6 | 15.88 | 1.307 | 81.5 | 0.719 | 3.473 | 20.4 | 195.7 | --- | 5.970 | -16.04 | 0.281 | 57.6 | 274.9 | -18.0 | 0.254 |
| 4-3050 | 4-4650 | 0.581 | 356.5 | 71.6 | 23.20 | 1.308 | 81.9 | 0.720 | 3.488 | 19.4 | 196.1 | --- | 5.998 | -23.35 | 0.283 | 57.1 | 277.5 | -23.4 | 0.272 |
| 4-3060 | 4-3380 | 0.865 | 24.1 | 9.4 | -0.48 | 1.431 | 54.4 | 1.03 | 022.231 | 70.0 | 135.5 | --- | --- | -1.43 | 0.662 | 159.8 | 284.0 | -3.5 | 0.640 |
| 4-3060 | 4-3400 | 0.848 | 23.2 | 9.1 | -0.44 | 1.408 | 54.5 | 0.98 | 752.337 | 71.6 | 138.8 | --- | --- | -1.41 | 0.611 | 158.4 | 283.7 | -3.5 | 0.592 |
| 4-3060 | 4-3420 | 0.833 | 22.4 | 8.8 | -0.39 | 1.389 | 54.6 | 0.95 | 313.956 | 72.9 | 141.9 | --- | --- | -1.39 | 0.566 | 157.0 | 283.3 | -3.5 | 0.549 |
| 4-3060 | 4-3440 | 0.820 | 21.8 | 8.6 | -0.35 | 1.374 | 54.7 | 0.925 | 8.695 | 74.0 | 144.7 | --- | --- | -1.38 | 0.525 | 155.4 | 282.9 | -3.6 | 0.511 |
| 4-3060 | 4-3460 | 0.809 | 21.3 | 8.5 | -0.30 | 1.361 | 54.8 | 0.902 | 6.624 | 74.9 | 147.3 | --- | --- | -1.36 | 0.490 | 153.7 | 282.4 | -3.6 | 0.477 |
| 4-3060 | 4-3480 | 0.799 | 20.9 | 8.4 | -0.26 | 1.350 | 54.9 | 0.883 | 5.526 | 75.6 | 149.7 | --- | --- | -1.35 | 0.457 | 151.9 | 281.8 | -3.7 | 0.446 |
| 4-3060 | 4-3500 | 0.789 | 20.6 | 8.3 | -0.22 | 1.340 | 55.1 | 0.867 | 4.852 | 76.2 | 152.0 | --- | --- | -1.34 | 0.428 | 150.0 | 281.1 | -3.7 | 0.419 |
| 4-3060 | 4-3520 | 0.781 | 20.3 | 8.3 | -0.18 | 1.332 | 55.3 | 0.853 | 4.401 | 76.6 | 154.0 | --- | --- | -1.33 | 0.402 | 148.1 | 280.4 | -3.7 | 0.395 |
| 4-3060 | 4-3540 | 0.773 | 20.2 | 8.3 | -0.14 | 1.326 | 55.5 | 0.842 | 4.082 | 76.8 | 156.0 | --- | --- | -1.32 | 0.379 | 146.0 | 279.6 | -3.8 | 0.373 |
| 4-3060 | 4-3560 | 0.765 | 20.1 | 8.3 | -0.10 | 1.320 | 55.7 | 0.831 | 3.846 | 76.9 | 157.8 | --- | --- | -1.32 | 0.358 | 143.8 | 278.7 | -3.8 | 0.353 |
| 4-3060 | 4-3580 | 0.758 | 20.1 | 8.4 | -0.06 | 1.315 | 56.0 | 0.823 | 3.668 | 76.9 | 159.5 | --- | --- | -1.31 | 0.339 | 141.5 | 277.8 | -3.9 | 0.336 |
| 4-3060 | 4-3600 | 0.751 | 20.1 | 8.4 | -0.02 | 1.311 | 56.2 | 0.815 | 3.529 | 76.8 | 161.1 | --- | --- | -1.31 | 0.322 | 139.1 | 276.8 | -3.9 | 0.320 |
| 4-3060 | 4-3620 | 0.744 | 20.2 | 8.5 | 0.02 | 1.308 | 56.5 | 0.808 | 3.420 | 76.6 | 162.5 | --- | --- | -1.30 | 0.306 | 136.6 | 275.7 | -3.9 | 0.306 |
| 4-3060 | 4-3640 | 0.737 | 20.3 | 8.6 | 0.06 | 1.305 | 56.8 | 0.802 | 3.333 | 76.3 | 163.9 | --- | --- | -1.30 | 0.293 | 134.1 | 274.7 | -4.0 | 0.293 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3060 | 4-3660 | 0.731 | 20.5 | 8.8 | 0.09 | 1.302 | 57.1 | 0.797 | 3.263 | 76.0 | 165.3 | --- | --- | -1.30 | 0.281 | 131.5 | 273.6 | -4.0 | 0.282 |
| 4-3060 | 4-3680 | 0.724 | 20.6 | 8.9 | 0.13 | 1.300 | 57.4 | 0.792 | 3.207 | 75.6 | 166.5 | --- | --- | -1.30 | 0.270 | 128.8 | 272.5 | -4.1 | 0.272 |
| 4-3060 | 4-3700 | 0.717 | 20.9 | 9.1 | 0.17 | 1.298 | 57.7 | 0.787 | 3.162 | 75.1 | 167.7 | --- | --- | -1.30 | 0.260 | 126.1 | 271.3 | -4.1 | 0.263 |
| 4-3060 | 4-3720 | 0.711 | 21.1 | 9.2 | 0.21 | 1.297 | 58.0 | 0.783 | 3.125 | 74.6 | 168.8 | --- | --- | -1.30 | 0.252 | 123.3 | 270.2 | -4.1 | 0.255 |
| 4-3060 | 4-3740 | 0.704 | 21.4 | 9.4 | 0.25 | 1.296 | 58.3 | 0.780 | 3.096 | 74.0 | 169.9 | --- | --- | -1.31 | 0.245 | 120.5 | 269.1 | -4.2 | 0.248 |
| 4-3060 | 4-3760 | 0.698 | 21.7 | 9.6 | 0.28 | 1.295 | 58.7 | 0.776 | 3.072 | 73.4 | 170.9 | --- | --- | -1.31 | 0.239 | 117.7 | 268.0 | -4.2 | 0.242 |
| 4-3060 | 4-3780 | 0.691 | 22.0 | 9.8 | 0.32 | 1.294 | 59.0 | 0.773 | 3.054 | 72.7 | 171.9 | --- | --- | -1.32 | 0.233 | 115.0 | 266.9 | -4.2 | 0.237 |
| 4-3060 | 4-3800 | 0.685 | 22.4 | 10.0 | 0.36 | 1.294 | 59.4 | 0.770 | 3.040 | 72.0 | 172.8 | --- | --- | -1.32 | 0.229 | 112.2 | 265.8 | -4.3 | 0.232 |
| 4-3060 | 4-3820 | 0.678 | 22.7 | 10.2 | 0.40 | 1.293 | 59.8 | 0.767 | 3.030 | 71.3 | 173.7 | --- | --- | -1.33 | 0.225 | 109.5 | 264.9 | -4.3 | 0.228 |
| 4-3060 | 4-3840 | 0.672 | 23.1 | 10.5 | 0.44 | 1.293 | 60.1 | 0.765 | 3.022 | 70.5 | 174.6 | --- | --- | -1.34 | 0.223 | 106.9 | 263.9 | -4.3 | 0.225 |
| 4-3060 | 4-3860 | 0.665 | 23.5 | 10.7 | 0.48 | 1.293 | 60.5 | 0.763 | 3.018 | 69.7 | 175.4 | --- | --- | -1.35 | 0.220 | 104.3 | 263.0 | -4.3 | 0.222 |
| 4-3060 | 4-3880 | 0.658 | 24.0 | 10.9 | 0.52 | 1.293 | 60.9 | 0.760 | 3.016 | 68.9 | 176.2 | --- | --- | -1.36 | 0.219 | 101.8 | 262.2 | -4.4 | 0.220 |
| 4-3060 | 4-3900 | 0.652 | 24.4 | 11.2 | 0.56 | 1.293 | 61.3 | 0.758 | 3.015 | 68.1 | 177.0 | --- | --- | -1.38 | 0.217 | 99.3 | 261.5 | -4.4 | 0.218 |
| 4-3060 | 4-3920 | 0.645 | 24.9 | 11.5 | 0.60 | 1.293 | 61.7 | 0.756 | 3.017 | 67.2 | 177.7 | --- | --- | -1.39 | 0.217 | 97.0 | 260.8 | -4.4 | 0.216 |
| 4-3060 | 4-3940 | 0.638 | 25.3 | 11.7 | 0.64 | 1.293 | 62.1 | 0.754 | 3.020 | 66.3 | 178.5 | --- | --- | -1.40 | 0.216 | 94.7 | 260.2 | -4.4 | 0.215 |
| 4-3060 | 4-3960 | 0.631 | 25.8 | 12.0 | 0.68 | 1.293 | 62.5 | 0.753 | 3.025 | 65.4 | 179.2 | --- | --- | -1.42 | 0.216 | 92.5 | 259.7 | -4.5 | 0.214 |
| 4-3060 | 4-3980 | 0.625 | 26.3 | 12.3 | 0.73 | 1.293 | 62.9 | 0.751 | 3.030 | 64.5 | 179.8 | --- | --- | -1.44 | 0.217 | 90.5 | 259.2 | -4.5 | 0.214 |
| 4-3060 | 4-4000 | 0.618 | 26.8 | 12.6 | 0.77 | 1.293 | 63.3 | 0.749 | 3.037 | 63.6 | 180.5 | --- | 5.313 | -1.46 | 0.217 | 88.5 | 258.9 | -4.5 | 0.213 |
| 4-3060 | 4-4020 | 0.611 | 27.4 | 12.9 | 0.82 | 1.294 | 63.7 | 0.748 | 3.045 | 62.6 | 181.2 | --- | 5.322 | -1.48 | 0.218 | 86.6 | 258.6 | -4.5 | 0.213 |
| 4-3060 | 4-4040 | 0.604 | 27.9 | 13.3 | 0.87 | 1.294 | 64.1 | 0.746 | 3.054 | 61.7 | 181.8 | --- | 5.332 | -1.50 | 0.219 | 84.8 | 258.3 | -4.5 | 0.213 |
| 4-3060 | 4-4060 | 0.597 | 28.5 | 13.6 | 0.91 | 1.294 | 64.5 | 0.745 | 3.063 | 60.7 | 182.4 | --- | 5.345 | -1.53 | 0.221 | 83.1 | 258.2 | -4.6 | 0.213 |
| 4-3060 | 4-4080 | 0.591 | 29.1 | 13.9 | 0.97 | 1.295 | 65.0 | 0.744 | 3.073 | 59.7 | 183.0 | --- | 5.358 | -1.56 | 0.222 | 81.4 | 258.1 | -4.6 | 0.214 |
| 4-3060 | 4-4100 | 0.584 | 29.6 | 14.3 | 1.02 | 1.295 | 65.4 | 0.742 | 3.084 | 58.7 | 183.6 | --- | 5.373 | -1.58 | 0.224 | 79.9 | 258.1 | -4.6 | 0.214 |
| 4-3060 | 4-4120 | 0.577 | 30.3 | 14.7 | 1.07 | 1.296 | 65.8 | 0.741 | 3.095 | 57.7 | 184.1 | --- | 5.389 | -1.62 | 0.225 | 78.4 | 258.1 | -4.7 | 0.215 |
| 4-3060 | 4-4140 | 0.570 | 30.9 | 15.0 | 1.13 | 1.296 | 66.3 | 0.740 | 3.107 | 56.7 | 184.7 | --- | 5.406 | -1.65 | 0.227 | 77.0 | 258.2 | -4.7 | 0.215 |
| 4-3060 | 4-4160 | 0.563 | 31.5 | 15.4 | 1.19 | 1.297 | 66.7 | 0.739 | 3.119 | 55.7 | 185.2 | --- | 5.424 | -1.69 | 0.229 | 75.7 | 258.4 | -4.7 | 0.216 |
| 4-3060 | 4-4180 | 0.557 | 32.2 | 15.8 | 1.25 | 1.297 | 67.1 | 0.738 | 3.131 | 54.7 | 185.8 | --- | 5.442 | -1.73 | 0.231 | 74.4 | 258.6 | -4.8 | 0.217 |
| 4-3060 | 4-4200 | 0.550 | 32.8 | 16.3 | 1.31 | 1.298 | 67.6 | 0.737 | 3.144 | 53.6 | 186.3 | --- | 5.462 | -1.77 | 0.233 | 73.2 | 258.8 | -4.8 | 0.218 |
| 4-3060 | 4-4220 | 0.543 | 33.5 | 16.7 | 1.38 | 1.298 | 68.0 | 0.736 | 3.157 | 52.6 | 186.8 | --- | 5.482 | -1.82 | 0.235 | 72.0 | 259.2 | -4.9 | 0.219 |
| 4-3060 | 4-4240 | 0.536 | 34.2 | 17.2 | 1.45 | 1.299 | 68.4 | 0.735 | 3.171 | 51.5 | 187.3 | --- | 5.503 | -1.87 | 0.237 | 70.9 | 259.5 | -4.9 | 0.220 |
| 4-3060 | 4-4260 | 0.529 | 34.9 | 17.6 | 1.52 | 1.299 | 68.9 | 0.735 | 3.185 | 50.5 | 187.8 | --- | 5.524 | -1.92 | 0.239 | 69.9 | 260.0 | -5.0 | 0.221 |
| 4-3060 | 4-4280 | 0.523 | 35.6 | 18.1 | 1.60 | 1.300 | 69.3 | 0.734 | 3.199 | 49.4 | 188.3 | --- | 5.546 | -1.98 | 0.242 | 68.9 | 260.4 | -5.0 | 0.222 |
| 4-3060 | 4-4300 | 0.516 | 36.4 | 18.6 | 1.69 | 1.300 | 69.8 | 0.733 | 3.213 | 48.3 | 188.7 | --- | 5.568 | -2.04 | 0.244 | 67.9 | 260.9 | -5.1 | 0.223 |
| 4-3060 | 4-4320 | 0.509 | 37.1 | 19.2 | 1.77 | 1.301 | 70.2 | 0.732 | 3.227 | 47.3 | 189.2 | --- | 5.591 | -2.11 | 0.246 | 67.0 | 261.4 | -5.2 | 0.224 |
| 4-3060 | 4-4340 | 0.503 | 37.9 | 19.7 | 1.87 | 1.301 | 70.7 | 0.732 | 3.242 | 46.2 | 189.7 | --- | 5.614 | -2.19 | 0.248 | 66.2 | 262.0 | -5.2 | 0.225 |
| 4-3060 | 4-4360 | 0.496 | 38.7 | 20.3 | 1.97 | 1.302 | 71.1 | 0.731 | 3.256 | 45.1 | 190.1 | --- | 5.638 | -2.27 | 0.250 | 65.3 | 262.6 | -5.3 | 0.226 |
| 4-3060 | 4-4380 | 0.490 | 39.5 | 20.9 | 2.08 | 1.302 | 71.6 | 0.731 | 3.271 | 44.0 | 190.6 | --- | 5.662 | -2.36 | 0.253 | 64.6 | 263.3 | -5.4 | 0.227 |
| 4-3060 | 4-4400 | 0.483 | 40.3 | 21.6 | 2.20 | 1.303 | 72.1 | 0.730 | 3.286 | 42.9 | 191.0 | --- | 5.686 | -2.46 | 0.255 | 63.8 | 264.0 | -5.5 | 0.229 |
| 4-3060 | 4-4420 | 0.477 | 41.2 | 22.3 | 2.33 | 1.304 | 72.5 | 0.730 | 3.301 | 41.8 | 191.4 | --- | 5.710 | -2.57 | 0.257 | 63.1 | 264.7 | -5.6 | 0.230 |
| 4-3060 | 4-4440 | 0.471 | 42.0 | 23.1 | 2.47 | 1.304 | 73.0 | 0.729 | 3.316 | 40.7 | 191.8 | --- | 5.735 | -2.70 | 0.259 | 62.4 | 265.4 | -5.7 | 0.231 |
| 4-3060 | 4-4460 | 0.465 | 42.9 | 23.9 | 2.63 | 1.305 | 73.4 | 0.729 | 3.331 | 39.6 | 192.3 | --- | 5.760 | -2.83 | 0.261 | 61.7 | 266.2 | -5.9 | 0.232 |
| 4-3060 | 4-4480 | 0.459 | 43.8 | 24.7 | 2.80 | 1.305 | 73.9 | 0.729 | 3.346 | 38.5 | 192.7 | --- | 5.785 | -2.99 | 0.264 | 61.0 | 267.0 | -6.0 | 0.234 |
| 4-3060 | 4-4500 | 0.453 | 44.6 | 25.7 | 3.00 | 1.306 | 74.4 | 0.729 | 3.362 | 37.4 | 193.1 | --- | 5.811 | -3.16 | 0.266 | 60.4 | 267.8 | -6.2 | 0.235 |
| 4-3060 | 4-4520 | 0.447 | 45.5 | 26.7 | 3.21 | 1.306 | 74.8 | 0.728 | 3.377 | 36.2 | 193.5 | --- | 5.837 | -3.36 | 0.268 | 59.8 | 268.6 | -6.4 | 0.236 |
| 4-3060 | 4-4540 | 0.442 | 46.4 | 27.8 | 3.46 | 1.307 | 75.3 | 0.728 | 3.392 | 35.1 | 193.9 | --- | 5.862 | -3.59 | 0.270 | 59.2 | 269.5 | -6.6 | 0.238 |
| 4-3060 | 4-4560 | 0.437 | 47.3 | 29.0 | 3.74 | 1.307 | 75.8 | 0.728 | 3.408 | 34.0 | 194.2 | --- | 5.888 | -3.86 | 0.272 | 58.7 | 270.4 | -6.8 | 0.239 |
| 4-3060 | 4-4580 | 0.432 | 48.2 | 30.4 | 4.07 | 1.308 | 76.2 | 0.728 | 3.423 | 32.8 | 194.6 | --- | 5.915 | -4.17 | 0.274 | 58.1 | 271.3 | -7.1 | 0.240 |
| 4-3060 | 4-4600 | 0.427 | 49.1 | 32.0 | 4.45 | 1.308 | 76.7 | 0.728 | 3.439 | 31.7 | 195.0 | --- | 5.941 | -4.53 | 0.277 | 57.6 | 272.3 | -7.4 | 0.242 |
| 4-3060 | 4-4620 | 0.423 | 49.9 | 33.8 | 4.91 | 1.309 | 77.2 | 0.728 | 3.454 | 30.6 | 195.4 | --- | 5.967 | -4.97 | 0.279 | 57.1 | 273.2 | -7.8 | 0.243 |
| 4-3060 | 4-4640 | 0.421 | 50.6 | 35.9 | 5.46 | 1.309 | 77.7 | 0.728 | 3.469 | 29.4 | 195.7 | --- | 5.994 | -5.51 | 0.281 | 56.6 | 274.2 | -8.3 | 0.245 |
| 4-3060 | 4-4660 | 0.419 | 51.1 | 38.5 | 6.15 | 1.310 | 78.1 | 0.728 | 3.485 | 28.3 | 196.1 | --- | 6.021 | -6.18 | 0.283 | 56.1 | 275.3 | -8.9 | 0.247 |
| 4-3070 | 4-3390 | 0.981 | 25.4 | 10.0 | -0.50 | 1.420 | 47.3 | 1.00508 | .351 | 85.2 | 141.6 | --- | --- | -1.51 | 0.634 | 161.2 | 282.2 | -3.5 | 0.629 |
| 4-3070 | 4-3410 | 0.961 | 24.8 | 9.8 | -0.45 | 1.399 | 47.5 | 0.97319 | .652 | 86.4 | 144.6 | --- | --- | -1.49 | 0.584 | 159.8 | 281.8 | -3.5 | 0.582 |
| 4-3070 | 4-3430 | 0.945 | 24.3 | 9.7 | -0.40 | 1.381 | 47.8 | 0.947 | 9.992 | 87.4 | 147.3 | --- | --- | -1.46 | 0.540 | 158.3 | 281.3 | -3.5 | 0.541 |
| 4-3070 | 4-3450 | 0.930 | 23.9 | 9.6 | -0.35 | 1.367 | 48.1 | 0.925 | 7.114 | 88.2 | 149.8 | --- | --- | -1.43 | 0.500 | 156.7 | 280.7 | -3.6 | 0.504 |
| 4-3070 | 4-3470 | 0.917 | 23.6 | 9.5 | -0.30 | 1.354 | 48.3 | 0.907 | 5.744 | 88.8 | 152.1 | --- | --- | -1.41 | 0.465 | 155.0 | 280.1 | -3.6 | 0.471 |
| 4-3070 | 4-3490 | 0.905 | 23.4 | 9.5 | -0.25 | 1.344 | 48.6 | 0.892 | 4.951 | 89.2 | 154.2 | --- | --- | -1.39 | 0.433 | 153.1 | 279.4 | -3.6 | 0.442 |
| 4-3070 | 4-3510 | 0.894 | 23.3 | 9.5 | -0.21 | 1.335 | 48.9 | 0.880 | 4.440 | 89.4 | 156.1 | --- | --- | -1.37 | 0.405 | 151.2 | 278.6 | -3.7 | 0.416 |
| 4-3070 | 4-3530 | 0.883 | 23.2 | 9.5 | -0.17 | 1.328 | 49.2 | 0.869 | 4.086 | 89.5 | 157.9 | --- | --- | -1.36 | 0.379 | 149.1 | 277.8 | -3.7 | 0.393 |
| 4-3070 | 4-3550 | 0.874 | 23.2 | 9.5 | -0.12 | 1.322 | 49.6 | 0.859 | 3.830 | 89.5 | 159.6 | --- | --- | -1.34 | 0.356 | 146.9 | 276.9 | -3.7 | 0.372 |
| 4-3070 | 4-3570 | 0.864 | 23.3 | 9.6 | -0.08 | 1.316 | 49.9 | 0.851 | 3.639 | 89.3 | 161.2 | --- | --- | -1.33 | 0.336 | 144.6 | 275.9 | -3.8 | 0.354 |
| 4-3070 | 4-3590 | 0.856 | 23.3 | 9.7 | -0.04 | 1.312 | 50.2 | 0.843 | 3.492 | 89.1 | 162.6 | --- | --- | -1.32 | 0.317 | 142.2 | 274.9 | -3.8 | 0.337 |
| 4-3070 | 4-3610 | 0.847 | 23.5 | 9.8 | -0.00 | 1.308 | 50.6 | 0.837 | 3.377 | 88.8 | 164.0 | --- | --- | -1.31 | 0.301 | 139.7 | 273.9 | -3.8 | 0.322 |
| 4-3070 | 4-3630 | 0.839 | 23.6 | 9.9 | 0.04 | 1.305 | 50.9 | 0.831 | 3.287 | 88.4 | 165.3 | --- | --- | -1.30 | 0.286 | 137.0 | 272.8 | -3.9 | 0.309 |
| 4-3070 | 4-3650 | 0.831 | 23.8 | 10.0 | 0.08 | 1.303 | 51.3 | 0.825 | 3.215 | 87.9 | 166.5 | --- | --- | -1.29 | 0.273 | 134.3 | 271.8 | -3.9 | 0.297 |
| 4-3070 | 4-3670 | 0.823 | 24.1 | 10.2 | 0.12 | 1.300 | 51.7 | 0.820 | 3.158 | 87.4 | 167.6 | --- | --- | -1.28 | 0.261 | 131.5 | 270.7 | -3.9 | 0.286 |
| 4-3070 | 4-3690 | 0.815 | 24.3 | 10.3 | 0.15 | 1.299 | 52.1 | 0.816 | 3.112 | 86.9 | 168.7 | --- | --- | -1.27 | 0.251 | 128.6 | 269.5 | -4.0 | 0.277 |
| 4-3070 | 4-3710 | 0.807 | 24.6 | 10.5 | 0.19 | 1.297 | 52.4 | 0.812 | 3.075 | 86.2 | 169.7 | --- | --- | -1.27 | 0.242 | 125.7 | 268.5 | -4.0 | 0.269 |
| 4-3070 | 4-3730 | 0.800 | 24.9 | 10.7 | 0.23 | 1.296 | 52.8 | 0.808 | 3.045 | 85.6 | 170.7 | --- | --- | -1.27 | 0.234 | 122.7 | 267.4 | -4.0 | 0.262 |
| 4-3070 | 4-3750 | 0.792 | 25.2 | 10.8 | 0.26 | 1.295 | 53.2 | 0.804 | 3.022 | 84.9 | 171.7 | --- | --- | -1.26 | 0.228 | 119.7 | 266.3 | -4.0 | 0.255 |
| 4-3070 | 4-3770 | 0.785 | 25.5 | 11.0 | 0.30 | 1.294 | 53.6 | 0.801 | 3.004 | 84.1 | 172.6 | --- | --- | -1.26 | 0.222 | 116.7 | 265.3 | -4.1 | 0.250 |
| 4-3070 | 4-3790 | 0.777 | 25.9 | 11.2 | 0.34 | 1.294 | 54.1 | 0.798 | 2.990 | 83.3 | 173.4 | --- | --- | -1.26 | 0.217 | 113.7 | 264.3 | -4.1 | 0.245 |
| 4-3070 | 4-3810 | 0.769 | 26.3 | 11.4 | 0.37 | 1.293 | 54.5 | 0.795 | 2.981 | 82.5 | 174.3 | --- | --- | -1.26 | 0.214 | 110.8 | 263.4 | -4.1 | 0.241 |
| 4-3070 | 4-3830 | 0.762 | 26.7 | 11.6 | 0.41 | 1.293 | 54.9 | 0.792 | 2.974 | 81.7 | 175.1 | --- | --- | -1.26 | 0.211 | 107.9 | 262.5 | -4.1 | 0.237 |
| 4-3070 | 4-3850 | 0.754 | 27.1 | 11.8 | 0.44 | 1.293 | 55.3 | 0.789 | 2.970 | 80.9 | 175.8 | --- | --- | -1.27 | 0.208 | 105.1 | 261.7 | -4.1 | 0.234 |
| 4-3070 | 4-3870 | 0.747 | 27.5 | 12.1 | 0.48 | 1.293 | 55.7 | 0.786 | 2.968 | 80.0 | 176.6 | --- | --- | -1.27 | 0.207 | 102.3 | 260.9 | -4.1 | 0.232 |
| 4-3070 | 4-3890 | 0.739 | 27.9 | 12.3 | 0.52 | 1.293 | 56.2 | 0.784 | 2.969 | 79.1 | 177.3 | --- | --- | -1.28 | 0.206 | 99.7 | 260.3 | -4.1 | 0.230 |
| 4-3070 | 4-3910 | 0.732 | 28.4 | 12.5 | 0.55 | 1.293 | 56.6 | 0.782 | 2.971 | 78.2 | 178.0 | --- | --- | -1.28 | 0.205 | 97.1 | 259.7 | -4.2 | 0.228 |
| 4-3070 | 4-3930 | 0.724 | 28.8 | 12.7 | 0.59 | 1.293 | 57.0 | 0.779 | 2.975 | 77.2 | 178.7 | --- | --- | -1.29 | 0.205 | 94.7 | 259.1 | -4.2 | 0.227 |
| 4-3070 | 4-3950 | 0.717 | 29.3 | 13.0 | 0.63 | 1.293 | 57.5 | 0.777 | 2.980 | 76.3 | 179.3 | --- | --- | -1.30 | 0.205 | 92.3 | 258.7 | -4.2 | 0.225 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3070 | 4-397C | 0.710 | 29.8 | 13.2 | 0.66 | 1.293 | 57.9 | 0.775 | 2.987 | 75.3 | 180.0 | --- | --- | -1.30 | 0.206 | 90.1 | 258.3 | -4.2 | 0.225 |
| 4-3070 | 4-399C | 0.702 | 30.3 | 13.5 | 0.70 | 1.294 | 58.4 | 0.773 | 2.994 | 74.4 | 180.6 | --- | 5.310 | -1.31 | 0.207 | 88.0 | 258.0 | -4.2 | 0.224 |
| 4-3070 | 4-401C | 0.695 | 30.8 | 13.8 | 0.74 | 1.294 | 58.8 | 0.771 | 3.003 | 73.4 | 181.2 | --- | 5.319 | -1.33 | 0.208 | 86.0 | 257.7 | -4.2 | 0.224 |
| 4-3070 | 4-403C | 0.687 | 31.3 | 14.0 | 0.78 | 1.295 | 59.3 | 0.770 | 3.012 | 72.4 | 181.8 | --- | 5.330 | -1.34 | 0.209 | 84.0 | 257.5 | -4.2 | 0.224 |
| 4-3070 | 4-405C | 0.680 | 31.8 | 14.3 | 0.82 | 1.295 | 59.7 | 0.768 | 3.022 | 71.4 | 182.4 | --- | 5.343 | -1.35 | 0.211 | 82.2 | 257.4 | -4.3 | 0.224 |
| 4-3070 | 4-407C | 0.672 | 32.3 | 14.6 | 0.86 | 1.295 | 60.2 | 0.766 | 3.033 | 70.4 | 182.9 | --- | 5.357 | -1.37 | 0.213 | 80.5 | 257.4 | -4.3 | 0.224 |
| 4-3070 | 4-409C | 0.665 | 32.9 | 14.9 | 0.90 | 1.296 | 60.6 | 0.765 | 3.045 | 69.3 | 183.5 | --- | 5.372 | -1.38 | 0.215 | 78.9 | 257.4 | -4.3 | 0.224 |
| 4-3070 | 4-411C | 0.657 | 33.4 | 15.2 | 0.94 | 1.296 | 61.1 | 0.763 | 3.057 | 68.3 | 184.0 | --- | 5.389 | -1.40 | 0.217 | 77.3 | 257.5 | -4.3 | 0.224 |
| 4-3070 | 4-413C | 0.650 | 34.0 | 15.5 | 0.99 | 1.297 | 61.5 | 0.761 | 3.069 | 67.3 | 184.6 | --- | 5.406 | -1.42 | 0.219 | 75.9 | 257.6 | -4.3 | 0.225 |
| 4-3070 | 4-415C | 0.642 | 34.6 | 15.8 | 1.03 | 1.297 | 62.0 | 0.760 | 3.082 | 66.2 | 185.1 | --- | 5.424 | -1.44 | 0.221 | 74.5 | 257.8 | -4.4 | 0.225 |
| 4-3070 | 4-417C | 0.635 | 35.2 | 16.1 | 1.07 | 1.298 | 62.4 | 0.759 | 3.095 | 65.2 | 185.6 | --- | 5.443 | -1.46 | 0.223 | 73.2 | 258.0 | -4.4 | 0.226 |
| 4-3070 | 4-419C | 0.627 | 35.8 | 16.4 | 1.12 | 1.299 | 62.9 | 0.757 | 3.109 | 64.1 | 186.1 | --- | 5.463 | -1.49 | 0.226 | 72.0 | 258.3 | -4.4 | 0.227 |
| 4-3070 | 4-421C | 0.620 | 36.4 | 16.8 | 1.17 | 1.299 | 63.4 | 0.756 | 3.123 | 63.0 | 186.6 | --- | 5.483 | -1.51 | 0.228 | 70.8 | 258.7 | -4.4 | 0.227 |
| 4-3070 | 4-423C | 0.612 | 37.1 | 17.1 | 1.22 | 1.300 | 63.8 | 0.755 | 3.137 | 62.0 | 187.1 | --- | 5.504 | -1.54 | 0.230 | 69.7 | 259.1 | -4.5 | 0.228 |
| 4-3070 | 4-425C | 0.605 | 37.7 | 17.5 | 1.27 | 1.300 | 64.3 | 0.754 | 3.151 | 60.9 | 187.5 | --- | 5.526 | -1.57 | 0.233 | 68.7 | 259.5 | -4.5 | 0.229 |
| 4-3070 | 4-427C | 0.597 | 38.4 | 17.8 | 1.33 | 1.301 | 64.7 | 0.752 | 3.166 | 59.8 | 188.0 | --- | 5.548 | -1.61 | 0.235 | 67.7 | 260.0 | -4.5 | 0.230 |
| 4-3070 | 4-429C | 0.590 | 39.0 | 18.2 | 1.38 | 1.301 | 65.2 | 0.751 | 3.181 | 58.7 | 188.4 | --- | 5.570 | -1.64 | 0.238 | 66.7 | 260.5 | -4.6 | 0.231 |
| 4-3070 | 4-431C | 0.583 | 39.7 | 18.6 | 1.44 | 1.302 | 65.7 | 0.750 | 3.196 | 57.6 | 188.9 | --- | 5.593 | -1.68 | 0.240 | 65.8 | 261.0 | -4.6 | 0.232 |
| 4-3070 | 4-433C | 0.575 | 40.4 | 19.0 | 1.50 | 1.302 | 66.1 | 0.749 | 3.211 | 56.5 | 189.3 | --- | 5.617 | -1.72 | 0.242 | 65.0 | 261.6 | -4.7 | 0.233 |
| 4-3070 | 4-435C | 0.568 | 41.1 | 19.4 | 1.57 | 1.303 | 66.6 | 0.748 | 3.226 | 55.4 | 189.8 | --- | 5.640 | -1.77 | 0.245 | 64.2 | 262.3 | -4.7 | 0.234 |
| 4-3070 | 4-437C | 0.561 | 41.9 | 19.8 | 1.64 | 1.304 | 67.1 | 0.747 | 3.241 | 54.3 | 190.2 | --- | 5.664 | -1.81 | 0.247 | 63.4 | 262.9 | -4.8 | 0.235 |
| 4-3070 | 4-439C | 0.553 | 42.6 | 20.3 | 1.71 | 1.304 | 67.6 | 0.747 | 3.257 | 53.2 | 190.6 | --- | 5.689 | -1.87 | 0.250 | 62.6 | 263.6 | -4.8 | 0.236 |
| 4-3070 | 4-441C | 0.546 | 43.4 | 20.7 | 1.78 | 1.305 | 68.0 | 0.746 | 3.273 | 52.1 | 191.1 | --- | 5.713 | -1.92 | 0.252 | 61.9 | 264.3 | -4.9 | 0.237 |
| 4-3070 | 4-443C | 0.539 | 44.1 | 21.2 | 1.86 | 1.305 | 68.5 | 0.745 | 3.288 | 51.0 | 191.5 | --- | 5.738 | -1.98 | 0.255 | 61.2 | 265.1 | -4.9 | 0.238 |
| 4-3070 | 4-445C | 0.532 | 44.9 | 21.7 | 1.95 | 1.306 | 69.0 | 0.744 | 3.304 | 49.9 | 191.9 | --- | 5.763 | -2.05 | 0.257 | 60.6 | 265.8 | -5.0 | 0.239 |
| 4-3070 | 4-447C | 0.525 | 45.7 | 22.2 | 2.04 | 1.306 | 69.4 | 0.743 | 3.320 | 48.7 | 192.3 | --- | 5.788 | -2.12 | 0.259 | 60.0 | 266.6 | -5.0 | 0.240 |
| 4-3070 | 4-449C | 0.518 | 46.6 | 22.8 | 2.14 | 1.307 | 69.9 | 0.743 | 3.336 | 47.6 | 192.7 | --- | 5.813 | -2.20 | 0.262 | 59.4 | 267.4 | -5.1 | 0.241 |
| 4-3070 | 4-451C | 0.511 | 47.4 | 23.3 | 2.25 | 1.307 | 70.4 | 0.742 | 3.352 | 46.5 | 193.1 | --- | 5.839 | -2.29 | 0.264 | 58.8 | 268.3 | -5.2 | 0.242 |
| 4-3070 | 4-453C | 0.504 | 48.3 | 24.0 | 2.36 | 1.308 | 70.9 | 0.742 | 3.367 | 45.3 | 193.4 | --- | 5.865 | -2.39 | 0.266 | 58.3 | 269.2 | -5.3 | 0.243 |
| 4-3070 | 4-455C | 0.497 | 49.1 | 24.6 | 2.49 | 1.309 | 71.4 | 0.741 | 3.383 | 44.2 | 193.8 | --- | 5.891 | -2.50 | 0.269 | 57.7 | 270.0 | -5.4 | 0.244 |
| 4-3070 | 4-457C | 0.490 | 50.0 | 25.3 | 2.62 | 1.309 | 71.8 | 0.741 | 3.399 | 43.1 | 194.2 | --- | 5.917 | -2.62 | 0.271 | 57.2 | 270.9 | -5.5 | 0.245 |
| 4-3070 | 4-459C | 0.484 | 50.9 | 26.0 | 2.78 | 1.310 | 72.3 | 0.740 | 3.415 | 41.9 | 194.6 | --- | 5.943 | -2.75 | 0.273 | 56.7 | 271.9 | -5.6 | 0.246 |
| 4-3070 | 4-461C | 0.477 | 51.9 | 26.8 | 2.94 | 1.310 | 72.8 | 0.740 | 3.431 | 40.8 | 194.9 | --- | 5.969 | -2.90 | 0.275 | 56.2 | 272.8 | -5.7 | 0.247 |
| 4-3070 | 4-463C | 0.471 | 52.8 | 27.7 | 3.13 | 1.311 | 73.3 | 0.739 | 3.447 | 39.6 | 195.3 | --- | 5.996 | -3.07 | 0.278 | 55.8 | 273.8 | -5.9 | 0.249 |
| 4-3070 | 4-465C | 0.465 | 53.8 | 28.6 | 3.34 | 1.311 | 73.8 | 0.739 | 3.463 | 38.5 | 195.7 | --- | 6.022 | -3.26 | 0.280 | 55.3 | 274.8 | -6.1 | 0.250 |
| 4-3070 | 4-467C | 0.459 | 54.7 | 29.6 | 3.57 | 1.312 | 74.2 | 0.739 | 3.479 | 37.3 | 196.0 | --- | 6.049 | -3.48 | 0.282 | 54.9 | 275.8 | -6.2 | 0.251 |
| 4-3080 | 4-340C | 1.102 | 27.6 | 10.9 | -0.55 | 1.411 | 39.9 | 0.991 | 43.159 | 100.8 | 148.1 | --- | --- | -1.61 | 0.607 | 163.1 | 280.1 | -3.5 | 0.623 |
| 4-3080 | 4-342C | 1.080 | 27.3 | 10.8 | -0.48 | 1.391 | 40.4 | 0.967 | 12.507 | 101.6 | 150.6 | --- | --- | -1.57 | 0.558 | 161.7 | 279.5 | -3.5 | 0.578 |
| 4-3080 | 4-344C | 1.061 | 27.0 | 10.8 | -0.42 | 1.374 | 40.8 | 0.948 | 7.920 | 102.1 | 152.9 | --- | --- | -1.53 | 0.515 | 160.2 | 278.9 | -3.5 | 0.537 |
| 4-3080 | 4-346C | 1.044 | 26.8 | 10.7 | -0.36 | 1.360 | 41.3 | 0.933 | 6.087 | 102.5 | 155.0 | --- | --- | -1.49 | 0.476 | 158.6 | 278.2 | -3.6 | 0.502 |
| 4-3080 | 4-348C | 1.028 | 26.7 | 10.8 | -0.31 | 1.348 | 41.7 | 0.919 | 5.111 | 102.7 | 156.9 | --- | --- | -1.46 | 0.441 | 156.8 | 277.5 | -3.6 | 0.470 |
| 4-3080 | 4-350C | 1.014 | 26.7 | 10.8 | -0.26 | 1.339 | 42.1 | 0.908 | 4.511 | 102.7 | 158.6 | --- | --- | -1.43 | 0.410 | 154.9 | 276.7 | -3.6 | 0.442 |
| 4-3080 | 4-352C | 1.001 | 26.7 | 10.8 | -0.20 | 1.330 | 42.6 | 0.898 | 4.109 | 102.6 | 160.2 | --- | --- | -1.40 | 0.382 | 152.9 | 275.9 | -3.6 | 0.417 |
| 4-3080 | 4-354C | 0.989 | 26.8 | 10.9 | -0.16 | 1.324 | 43.0 | 0.889 | 3.825 | 102.4 | 161.7 | --- | --- | -1.38 | 0.356 | 150.8 | 275.0 | -3.7 | 0.395 |
| 4-3080 | 4-356C | 0.978 | 26.9 | 11.0 | -0.11 | 1.318 | 43.4 | 0.881 | 3.617 | 102.1 | 163.1 | --- | --- | -1.36 | 0.334 | 148.5 | 274.0 | -3.7 | 0.375 |
| 4-3080 | 4-358C | 0.967 | 27.1 | 11.1 | -0.07 | 1.313 | 43.9 | 0.874 | 3.459 | 101.7 | 164.4 | --- | --- | -1.33 | 0.313 | 146.0 | 273.0 | -3.7 | 0.358 |
| 4-3080 | 4-360C | 0.956 | 27.3 | 11.2 | -0.02 | 1.309 | 44.3 | 0.868 | 3.337 | 101.2 | 165.6 | --- | --- | -1.31 | 0.295 | 143.5 | 272.0 | -3.7 | 0.342 |
| 4-3080 | 4-362C | 0.946 | 27.5 | 11.3 | 0.02 | 1.306 | 44.8 | 0.862 | 3.242 | 100.7 | 166.8 | --- | --- | -1.30 | 0.279 | 140.8 | 270.9 | -3.8 | 0.328 |
| 4-3080 | 4-364C | 0.937 | 27.7 | 11.5 | 0.06 | 1.303 | 45.2 | 0.856 | 3.167 | 100.1 | 167.8 | --- | --- | -1.28 | 0.264 | 137.9 | 269.9 | -3.8 | 0.315 |
| 4-3080 | 4-366C | 0.927 | 28.0 | 11.6 | 0.10 | 1.301 | 45.7 | 0.852 | 3.107 | 99.5 | 168.9 | --- | --- | -1.27 | 0.252 | 135.0 | 268.8 | -3.8 | 0.304 |
| 4-3080 | 4-368C | 0.918 | 28.3 | 11.8 | 0.14 | 1.299 | 46.1 | 0.847 | 3.060 | 98.8 | 169.8 | --- | --- | -1.25 | 0.240 | 131.9 | 267.7 | -3.8 | 0.294 |
| 4-3080 | 4-370C | 0.909 | 28.6 | 11.9 | 0.18 | 1.297 | 46.6 | 0.843 | 3.022 | 98.0 | 170.8 | --- | --- | -1.24 | 0.231 | 128.8 | 266.7 | -3.8 | 0.286 |
| 4-3080 | 4-372C | 0.900 | 28.9 | 12.1 | 0.22 | 1.296 | 47.1 | 0.839 | 2.992 | 97.3 | 171.6 | --- | --- | -1.23 | 0.222 | 125.6 | 265.7 | -3.9 | 0.278 |
| 4-3080 | 4-374C | 0.891 | 29.3 | 12.3 | 0.25 | 1.295 | 47.5 | 0.835 | 2.969 | 96.5 | 172.5 | --- | --- | -1.22 | 0.215 | 122.3 | 264.7 | -3.9 | 0.271 |
| 4-3080 | 4-376C | 0.883 | 29.6 | 12.4 | 0.29 | 1.294 | 48.0 | 0.831 | 2.951 | 95.6 | 173.3 | --- | --- | -1.21 | 0.209 | 119.0 | 263.7 | -3.9 | 0.266 |
| 4-3080 | 4-378C | 0.874 | 30.0 | 12.6 | 0.32 | 1.293 | 48.5 | 0.828 | 2.938 | 94.8 | 174.1 | --- | --- | -1.21 | 0.204 | 115.7 | 262.8 | -3.9 | 0.260 |
| 4-3080 | 4-380C | 0.866 | 30.4 | 12.8 | 0.36 | 1.293 | 48.9 | 0.825 | 2.929 | 93.9 | 174.8 | --- | --- | -1.20 | 0.200 | 112.5 | 261.9 | -3.9 | 0.256 |
| 4-3080 | 4-382C | 0.857 | 30.8 | 13.0 | 0.39 | 1.293 | 49.4 | 0.821 | 2.922 | 93.0 | 175.6 | --- | --- | -1.20 | 0.197 | 109.3 | 261.1 | -3.9 | 0.252 |
| 4-3080 | 4-384C | 0.849 | 31.2 | 13.2 | 0.43 | 1.293 | 49.9 | 0.818 | 2.919 | 92.1 | 176.3 | --- | --- | -1.19 | 0.194 | 106.2 | 260.4 | -3.9 | 0.249 |
| 4-3080 | 4-386C | 0.840 | 31.6 | 13.4 | 0.46 | 1.293 | 50.4 | 0.816 | 2.918 | 91.1 | 177.0 | --- | --- | -1.19 | 0.193 | 103.1 | 259.7 | -3.9 | 0.246 |
| 4-3080 | 4-388C | 0.832 | 32.0 | 13.6 | 0.49 | 1.293 | 50.8 | 0.813 | 2.919 | 90.2 | 177.6 | --- | --- | -1.19 | 0.192 | 100.2 | 259.1 | -3.9 | 0.244 |
| 4-3080 | 4-390C | 0.824 | 32.5 | 13.8 | 0.53 | 1.293 | 51.3 | 0.810 | 2.922 | 89.2 | 178.3 | --- | --- | -1.19 | 0.191 | 97.3 | 258.5 | -3.9 | 0.242 |
| 4-3080 | 4-392C | 0.815 | 32.9 | 14.0 | 0.56 | 1.293 | 51.8 | 0.807 | 2.927 | 88.2 | 178.9 | --- | --- | -1.19 | 0.192 | 94.6 | 258.1 | -3.9 | 0.240 |
| 4-3080 | 4-394C | 0.807 | 33.4 | 14.2 | 0.59 | 1.293 | 52.3 | 0.805 | 2.933 | 87.2 | 179.5 | --- | --- | -1.19 | 0.192 | 92.1 | 257.7 | -3.9 | 0.239 |
| 4-3080 | 4-396C | 0.799 | 33.9 | 14.4 | 0.63 | 1.294 | 52.7 | 0.803 | 2.940 | 86.2 | 180.1 | --- | 5.299 | -1.19 | 0.193 | 89.6 | 257.3 | -4.0 | 0.238 |
| 4-3080 | 4-398C | 0.791 | 34.3 | 14.7 | 0.66 | 1.294 | 53.2 | 0.800 | 2.948 | 85.2 | 180.7 | --- | 5.307 | -1.19 | 0.194 | 87.3 | 257.1 | -4.0 | 0.237 |
| 4-3080 | 4-400C | 0.782 | 34.8 | 14.9 | 0.69 | 1.294 | 53.7 | 0.798 | 2.957 | 84.2 | 181.2 | --- | 5.317 | -1.19 | 0.196 | 85.1 | 256.9 | -4.0 | 0.237 |
| 4-3080 | 4-402C | 0.774 | 35.3 | 15.1 | 0.73 | 1.295 | 54.2 | 0.796 | 2.967 | 83.1 | 181.8 | --- | 5.329 | -1.20 | 0.198 | 83.1 | 256.7 | -4.0 | 0.236 |
| 4-3080 | 4-404C | 0.766 | 35.8 | 15.4 | 0.76 | 1.295 | 54.7 | 0.794 | 2.978 | 82.1 | 182.3 | --- | 5.342 | -1.20 | 0.200 | 81.1 | 256.7 | -4.0 | 0.236 |
| 4-3080 | 4-406C | 0.758 | 36.4 | 15.6 | 0.80 | 1.296 | 55.2 | 0.792 | 2.990 | 81.0 | 182.9 | --- | 5.356 | -1.21 | 0.202 | 79.3 | 256.7 | -4.0 | 0.236 |
| 4-3080 | 4-408C | 0.750 | 36.9 | 15.8 | 0.83 | 1.296 | 55.6 | 0.790 | 3.002 | 80.0 | 183.4 | --- | 5.372 | -1.22 | 0.204 | 77.6 | 256.7 | -4.0 | 0.236 |
| 4-3080 | 4-410C | 0.742 | 37.4 | 16.1 | 0.86 | 1.297 | 56.1 | 0.788 | 3.014 | 78.9 | 183.9 | --- | 5.389 | -1.23 | 0.206 | 76.0 | 256.9 | -4.0 | 0.236 |
| 4-3080 | 4-412C | 0.734 | 38.0 | 16.3 | 0.90 | 1.297 | 56.6 | 0.786 | 3.027 | 77.8 | 184.4 | --- | 5.407 | -1.24 | 0.209 | 74.5 | 257.0 | -4.0 | 0.236 |
| 4-3080 | 4-414C | 0.725 | 38.5 | 16.6 | 0.93 | 1.298 | 57.1 | 0.784 | 3.041 | 76.8 | 184.9 | --- | 5.425 | -1.25 | 0.211 | 73.0 | 257.3 | -4.1 | 0.237 |
| 4-3080 | 4-416C | 0.717 | 39.1 | 16.8 | 0.97 | 1.299 | 57.6 | 0.782 | 3.055 | 75.7 | 185.4 | --- | 5.445 | -1.26 | 0.214 | 71.7 | 257.5 | -4.1 | 0.237 |
| 4-3080 | 4-418C | 0.709 | 39.6 | 17.1 | 1.01 | 1.299 | 58.1 | 0.781 | 3.069 | 74.6 | 185.8 | --- | 5.465 | -1.27 | 0.217 | 70.4 | 257.9 | -4.1 | 0.238 |
| 4-3080 | 4-420C | 0.701 | 40.2 | 17.4 | 1.05 | 1.300 | 58.6 | 0.779 | 3.084 | 73.5 | 186.3 | --- | 5.486 | -1.29 | 0.219 | 69.3 | 258.2 | -4.1 | 0.238 |
| 4-3080 | 4-422C | 0.693 | 40.8 | 17.7 | 1.08 | 1.300 | 59.0 | 0.777 | 3.099 | 72.4 | 186.8 | --- | 5.507 | -1.30 | 0.222 | 68.1 | 258.6 | -4.1 | 0.239 |
| 4-3080 | 4-424C | 0.685 | 41.4 | 17.9 | 1.12 | 1.301 | 59.5 | 0.776 | 3.114 | 71.3 | 187.2 | --- | 5.529 | -1.32 | 0.225 | 67.1 | 259.1 | -4.2 | 0.239 |
| 4-3080 | 4-426C | 0.677 | 42.0 | 18.2 | 1.16 | 1.301 | 60.0 | 0.774 | 3.129 | 70.2 | 187.7 | --- | 5.551 | -1.34 | 0.227 | 66.1 | 259.6 | -4.2 | 0.240 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3080 | 4-4280 | 0.669 | 42.6 | 18.5 | 1.20 | 1.302 | 60.5 | 0.773 | 3.144 | 69.1 | 188.1 | --- | 5.574 | -1.36 | 0.230 | 65.1 | 260.1 | -4.2 | 0.241 |
| 4-3080 | 4-4300 | 0.661 | 43.3 | 18.8 | 1.25 | 1.303 | 61.0 | 0.771 | 3.160 | 68.0 | 188.5 | --- | 5.597 | -1.38 | 0.233 | 64.2 | 260.7 | -4.2 | 0.241 |
| 4-3080 | 4-4320 | 0.653 | 43.9 | 19.1 | 1.29 | 1.303 | 61.5 | 0.770 | 3.176 | 66.9 | 189.0 | --- | 5.621 | -1.40 | 0.236 | 63.4 | 261.3 | -4.2 | 0.242 |
| 4-3080 | 4-4340 | 0.645 | 44.6 | 19.4 | 1.34 | 1.304 | 62.0 | 0.768 | 3.192 | 65.7 | 189.4 | --- | 5.645 | -1.42 | 0.238 | 62.6 | 261.9 | -4.3 | 0.243 |
| 4-3080 | 4-4360 | 0.637 | 45.2 | 19.7 | 1.38 | 1.305 | 62.5 | 0.767 | 3.208 | 64.6 | 189.8 | --- | 5.669 | -1.45 | 0.241 | 61.8 | 262.6 | -4.3 | 0.244 |
| 4-3080 | 4-4380 | 0.629 | 45.9 | 20.0 | 1.43 | 1.305 | 62.9 | 0.766 | 3.224 | 63.5 | 190.2 | --- | 5.693 | -1.48 | 0.244 | 61.1 | 263.3 | -4.3 | 0.245 |
| 4-3080 | 4-4400 | 0.621 | 46.6 | 20.4 | 1.48 | 1.306 | 63.4 | 0.765 | 3.240 | 62.4 | 190.6 | --- | 5.718 | -1.51 | 0.246 | 60.4 | 264.0 | -4.4 | 0.245 |
| 4-3080 | 4-4420 | 0.614 | 47.3 | 20.7 | 1.53 | 1.306 | 63.9 | 0.763 | 3.257 | 61.2 | 191.0 | --- | 5.743 | -1.54 | 0.249 | 59.8 | 264.8 | -4.4 | 0.246 |
| 4-3080 | 4-4440 | 0.606 | 48.0 | 21.1 | 1.59 | 1.307 | 64.4 | 0.762 | 3.273 | 60.1 | 191.4 | --- | 5.768 | -1.58 | 0.251 | 59.1 | 265.5 | -4.4 | 0.247 |
| 4-3080 | 4-4460 | 0.598 | 48.7 | 21.4 | 1.65 | 1.307 | 64.9 | 0.761 | 3.289 | 59.0 | 191.8 | --- | 5.793 | -1.62 | 0.254 | 58.6 | 266.3 | -4.5 | 0.248 |
| 4-3080 | 4-4480 | 0.590 | 49.5 | 21.8 | 1.71 | 1.308 | 65.4 | 0.760 | 3.306 | 57.8 | 192.2 | --- | 5.819 | -1.66 | 0.257 | 58.0 | 267.2 | -4.5 | 0.249 |
| 4-3080 | 4-4500 | 0.583 | 50.2 | 22.2 | 1.77 | 1.309 | 65.9 | 0.759 | 3.322 | 56.7 | 192.6 | --- | 5.844 | -1.70 | 0.259 | 57.4 | 268.0 | -4.6 | 0.250 |
| 4-3080 | 4-4520 | 0.575 | 51.0 | 22.6 | 1.84 | 1.309 | 66.4 | 0.758 | 3.339 | 55.6 | 193.0 | --- | 5.870 | -1.75 | 0.262 | 56.9 | 268.9 | -4.6 | 0.250 |
| 4-3080 | 4-4540 | 0.567 | 51.8 | 23.0 | 1.91 | 1.310 | 66.8 | 0.757 | 3.355 | 54.4 | 193.3 | --- | 5.896 | -1.80 | 0.264 | 56.4 | 269.7 | -4.6 | 0.251 |
| 4-3080 | 4-4560 | 0.560 | 52.6 | 23.4 | 1.98 | 1.310 | 67.3 | 0.756 | 3.372 | 53.3 | 193.7 | --- | 5.922 | -1.86 | 0.267 | 55.9 | 270.7 | -4.7 | 0.252 |
| 4-3080 | 4-4580 | 0.552 | 53.4 | 23.9 | 2.06 | 1.311 | 67.8 | 0.756 | 3.388 | 52.1 | 194.1 | --- | 5.948 | -1.92 | 0.269 | 55.5 | 271.6 | -4.7 | 0.253 |
| 4-3080 | 4-4600 | 0.545 | 54.3 | 24.3 | 2.15 | 1.311 | 68.3 | 0.755 | 3.405 | 51.0 | 194.4 | --- | 5.974 | -1.99 | 0.271 | 55.0 | 272.5 | -4.8 | 0.254 |
| 4-3080 | 4-4620 | 0.537 | 55.1 | 24.8 | 2.24 | 1.312 | 68.8 | 0.754 | 3.421 | 49.8 | 194.8 | --- | 6.001 | -2.07 | 0.274 | 54.6 | 273.5 | -4.9 | 0.255 |
| 4-3080 | 4-4640 | 0.530 | 56.0 | 25.3 | 2.34 | 1.312 | 69.3 | 0.753 | 3.438 | 48.7 | 195.2 | --- | 6.027 | -2.15 | 0.276 | 54.2 | 274.5 | -4.9 | 0.256 |
| 4-3080 | 4-4660 | 0.522 | 56.9 | 25.9 | 2.44 | 1.313 | 69.8 | 0.752 | 3.454 | 47.5 | 195.5 | --- | 6.053 | -2.24 | 0.278 | 53.8 | 275.4 | -5.0 | 0.257 |
| 4-3080 | 4-4680 | 0.515 | 57.8 | 26.5 | 2.56 | 1.314 | 70.3 | 0.752 | 3.471 | 46.3 | 195.9 | --- | 6.080 | -2.34 | 0.281 | 53.4 | 276.4 | -5.1 | 0.258 |
| 4-3090 | 4-3410 | 1.226 | 30.6 | 12.1 | -0.62 | 1.403 | 32.4 | 0.986 | 19.484 | 116.5 | 154.7 | --- | --- | -1.73 | 0.584 | 165.5 | 277.8 | -3.4 | 0.623 |
| 4-3090 | 4-3430 | 1.201 | 30.5 | 12.1 | -0.54 | 1.383 | 33.0 | 0.970 | 9.488 | 116.7 | 156.7 | --- | --- | -1.67 | 0.535 | 164.1 | 277.1 | -3.5 | 0.578 |
| 4-3090 | 4-3450 | 1.179 | 30.4 | 12.1 | -0.46 | 1.367 | 33.7 | 0.957 | 6.694 | 116.8 | 158.4 | --- | --- | -1.61 | 0.491 | 162.6 | 276.4 | -3.5 | 0.539 |
| 4-3090 | 4-3470 | 1.160 | 30.4 | 12.1 | -0.39 | 1.354 | 34.3 | 0.946 | 5.394 | 116.7 | 160.0 | --- | --- | -1.56 | 0.453 | 161.0 | 275.7 | -3.5 | 0.504 |
| 4-3090 | 4-3490 | 1.142 | 30.5 | 12.2 | -0.33 | 1.343 | 34.9 | 0.936 | 4.650 | 116.4 | 161.5 | --- | --- | -1.51 | 0.418 | 159.2 | 274.9 | -3.5 | 0.474 |
| 4-3090 | 4-3510 | 1.126 | 30.6 | 12.3 | -0.26 | 1.334 | 35.4 | 0.927 | 4.175 | 116.1 | 162.8 | --- | --- | -1.47 | 0.387 | 157.3 | 274.0 | -3.6 | 0.447 |
| 4-3090 | 4-3530 | 1.111 | 30.8 | 12.3 | -0.21 | 1.326 | 36.0 | 0.919 | 3.848 | 115.6 | 164.1 | --- | --- | -1.43 | 0.359 | 155.3 | 273.1 | -3.6 | 0.423 |
| 4-3090 | 4-3550 | 1.097 | 30.9 | 12.5 | -0.15 | 1.320 | 36.6 | 0.912 | 3.614 | 115.1 | 165.3 | --- | --- | -1.40 | 0.334 | 153.1 | 272.1 | -3.6 | 0.401 |
| 4-3090 | 4-3570 | 1.084 | 31.2 | 12.6 | -0.10 | 1.314 | 37.1 | 0.906 | 3.440 | 114.5 | 166.4 | --- | --- | -1.36 | 0.311 | 150.7 | 271.2 | -3.6 | 0.382 |
| 4-3090 | 4-3590 | 1.071 | 31.4 | 12.7 | -0.05 | 1.310 | 37.7 | 0.900 | 3.307 | 113.9 | 167.4 | --- | --- | -1.33 | 0.291 | 148.1 | 270.1 | -3.6 | 0.366 |
| 4-3090 | 4-3610 | 1.059 | 31.7 | 12.8 | -0.00 | 1.306 | 38.3 | 0.894 | 3.205 | 113.2 | 168.4 | --- | --- | -1.31 | 0.273 | 145.4 | 269.1 | -3.6 | 0.351 |
| 4-3090 | 4-3630 | 1.048 | 32.0 | 13.0 | 0.05 | 1.303 | 38.8 | 0.889 | 3.124 | 112.4 | 169.3 | --- | --- | -1.28 | 0.257 | 142.5 | 268.1 | -3.7 | 0.337 |
| 4-3090 | 4-3650 | 1.036 | 32.3 | 13.1 | 0.09 | 1.301 | 39.3 | 0.884 | 3.061 | 111.6 | 170.2 | --- | --- | -1.26 | 0.242 | 139.5 | 267.0 | -3.7 | 0.325 |
| 4-3090 | 4-3670 | 1.026 | 32.6 | 13.3 | 0.13 | 1.299 | 39.9 | 0.880 | 3.011 | 110.8 | 171.0 | --- | --- | -1.24 | 0.230 | 136.3 | 266.0 | -3.7 | 0.315 |
| 4-3090 | 4-3690 | 1.015 | 33.0 | 13.4 | 0.17 | 1.297 | 40.4 | 0.875 | 2.972 | 110.0 | 171.8 | --- | --- | -1.22 | 0.219 | 132.9 | 265.0 | -3.7 | 0.306 |
| 4-3090 | 4-3710 | 1.005 | 33.3 | 13.6 | 0.21 | 1.296 | 41.0 | 0.871 | 2.941 | 109.1 | 172.6 | --- | --- | -1.20 | 0.209 | 129.5 | 264.0 | -3.7 | 0.298 |
| 4-3090 | 4-3730 | 0.995 | 33.7 | 13.8 | 0.25 | 1.295 | 41.5 | 0.867 | 2.917 | 108.2 | 173.4 | --- | --- | -1.18 | 0.201 | 125.9 | 263.1 | -3.7 | 0.290 |
| 4-3090 | 4-3750 | 0.985 | 34.1 | 13.9 | 0.29 | 1.294 | 42.1 | 0.864 | 2.899 | 107.2 | 174.1 | --- | --- | -1.17 | 0.194 | 122.3 | 262.2 | -3.7 | 0.284 |
| 4-3090 | 4-3770 | 0.975 | 34.5 | 14.1 | 0.32 | 1.293 | 42.6 | 0.860 | 2.885 | 106.3 | 174.8 | --- | --- | -1.15 | 0.189 | 118.6 | 261.3 | -3.7 | 0.279 |
| 4-3090 | 4-3790 | 0.966 | 34.9 | 14.3 | 0.36 | 1.293 | 43.1 | 0.856 | 2.876 | 105.3 | 175.4 | --- | --- | -1.14 | 0.184 | 115.0 | 260.5 | -3.7 | 0.274 |
| 4-3090 | 4-3810 | 0.956 | 35.3 | 14.5 | 0.39 | 1.292 | 43.7 | 0.853 | 2.870 | 104.3 | 176.1 | --- | --- | -1.13 | 0.181 | 111.3 | 259.8 | -3.7 | 0.270 |
| 4-3090 | 4-3830 | 0.947 | 35.8 | 14.6 | 0.42 | 1.292 | 44.2 | 0.850 | 2.867 | 103.3 | 176.7 | --- | --- | -1.12 | 0.178 | 107.8 | 259.1 | -3.7 | 0.266 |
| 4-3090 | 4-3850 | 0.937 | 36.2 | 14.8 | 0.46 | 1.292 | 44.7 | 0.847 | 2.866 | 102.3 | 177.3 | --- | --- | -1.11 | 0.177 | 104.3 | 258.5 | -3.7 | 0.263 |
| 4-3090 | 4-3870 | 0.928 | 36.6 | 15.0 | 0.49 | 1.292 | 45.3 | 0.844 | 2.868 | 101.3 | 177.9 | --- | --- | -1.10 | 0.176 | 101.0 | 258.0 | -3.7 | 0.260 |
| 4-3090 | 4-3890 | 0.919 | 37.1 | 15.2 | 0.52 | 1.292 | 45.8 | 0.841 | 2.871 | 100.3 | 178.5 | --- | --- | -1.10 | 0.176 | 97.8 | 257.5 | -3.7 | 0.258 |
| 4-3090 | 4-3910 | 0.910 | 37.5 | 15.4 | 0.55 | 1.293 | 46.3 | 0.838 | 2.876 | 99.2 | 179.1 | --- | --- | -1.09 | 0.176 | 94.7 | 257.1 | -3.7 | 0.256 |
| 4-3090 | 4-3930 | 0.901 | 38.0 | 15.6 | 0.58 | 1.293 | 46.8 | 0.835 | 2.883 | 98.2 | 179.6 | --- | --- | -1.08 | 0.177 | 91.9 | 256.7 | -3.7 | 0.255 |
| 4-3090 | 4-3950 | 0.892 | 38.5 | 15.8 | 0.61 | 1.293 | 47.4 | 0.832 | 2.890 | 97.1 | 180.2 | --- | 5.296 | -1.08 | 0.178 | 89.1 | 256.5 | -3.7 | 0.253 |
| 4-3090 | 4-3970 | 0.883 | 39.0 | 16.0 | 0.64 | 1.294 | 47.9 | 0.830 | 2.899 | 96.0 | 180.7 | --- | 5.304 | -1.08 | 0.180 | 86.6 | 256.3 | -3.7 | 0.252 |
| 4-3090 | 4-3990 | 0.874 | 39.4 | 16.2 | 0.67 | 1.294 | 48.4 | 0.827 | 2.909 | 95.0 | 181.2 | --- | 5.315 | -1.07 | 0.182 | 84.1 | 256.1 | -3.8 | 0.251 |
| 4-3090 | 4-4010 | 0.865 | 39.9 | 16.4 | 0.70 | 1.295 | 48.9 | 0.824 | 2.920 | 93.9 | 181.7 | --- | 5.327 | -1.07 | 0.184 | 81.9 | 256.0 | -3.8 | 0.251 |
| 4-3090 | 4-4030 | 0.856 | 40.4 | 16.6 | 0.73 | 1.295 | 49.5 | 0.822 | 2.931 | 92.8 | 182.2 | --- | 5.341 | -1.07 | 0.186 | 79.8 | 256.0 | -3.8 | 0.250 |
| 4-3090 | 4-4050 | 0.848 | 40.9 | 16.8 | 0.76 | 1.296 | 50.0 | 0.820 | 2.943 | 91.7 | 182.7 | --- | 5.356 | -1.07 | 0.189 | 77.8 | 256.1 | -3.8 | 0.250 |
| 4-3090 | 4-4070 | 0.839 | 41.5 | 17.0 | 0.79 | 1.296 | 50.5 | 0.817 | 2.956 | 90.6 | 183.2 | --- | 5.372 | -1.07 | 0.191 | 76.0 | 256.2 | -3.8 | 0.250 |
| 4-3090 | 4-4090 | 0.830 | 42.0 | 17.2 | 0.82 | 1.297 | 51.0 | 0.815 | 2.969 | 89.5 | 183.7 | --- | 5.389 | -1.08 | 0.194 | 74.3 | 256.3 | -3.8 | 0.250 |
| 4-3090 | 4-4110 | 0.821 | 42.5 | 17.4 | 0.85 | 1.297 | 51.5 | 0.813 | 2.983 | 88.4 | 184.2 | --- | 5.407 | -1.08 | 0.197 | 72.7 | 256.5 | -3.8 | 0.250 |
| 4-3090 | 4-4130 | 0.813 | 43.0 | 17.6 | 0.88 | 1.298 | 52.1 | 0.810 | 2.997 | 87.3 | 184.6 | --- | 5.427 | -1.08 | 0.200 | 71.2 | 256.8 | -3.8 | 0.250 |
| 4-3090 | 4-4150 | 0.804 | 43.6 | 17.9 | 0.91 | 1.299 | 52.6 | 0.808 | 3.012 | 86.2 | 185.1 | --- | 5.446 | -1.09 | 0.203 | 69.8 | 257.1 | -3.8 | 0.250 |
| 4-3090 | 4-4170 | 0.795 | 44.1 | 18.1 | 0.94 | 1.299 | 53.1 | 0.806 | 3.027 | 85.1 | 185.5 | --- | 5.467 | -1.09 | 0.206 | 68.5 | 257.4 | -3.8 | 0.250 |
| 4-3090 | 4-4190 | 0.787 | 44.7 | 18.3 | 0.97 | 1.300 | 53.6 | 0.804 | 3.042 | 84.0 | 186.0 | --- | 5.488 | -1.10 | 0.209 | 67.3 | 257.8 | -3.8 | 0.251 |
| 4-3090 | 4-4210 | 0.778 | 45.2 | 18.5 | 1.00 | 1.301 | 54.1 | 0.802 | 3.057 | 82.8 | 186.4 | --- | 5.510 | -1.10 | 0.212 | 66.2 | 258.3 | -3.9 | 0.251 |
| 4-3090 | 4-4230 | 0.769 | 45.8 | 18.8 | 1.03 | 1.301 | 54.6 | 0.800 | 3.073 | 81.7 | 186.8 | --- | 5.532 | -1.11 | 0.215 | 65.1 | 258.7 | -3.9 | 0.251 |
| 4-3090 | 4-4250 | 0.761 | 46.4 | 19.0 | 1.07 | 1.302 | 55.1 | 0.798 | 3.089 | 80.6 | 187.3 | --- | 5.555 | -1.12 | 0.219 | 64.1 | 259.3 | -3.9 | 0.252 |
| 4-3090 | 4-4270 | 0.752 | 47.0 | 19.2 | 1.10 | 1.303 | 55.6 | 0.797 | 3.105 | 79.5 | 187.7 | --- | 5.578 | -1.13 | 0.222 | 63.2 | 259.8 | -3.9 | 0.252 |
| 4-3090 | 4-4290 | 0.744 | 47.6 | 19.5 | 1.13 | 1.303 | 56.2 | 0.795 | 3.121 | 78.3 | 188.1 | --- | 5.602 | -1.14 | 0.225 | 62.3 | 260.4 | -3.9 | 0.253 |
| 4-3090 | 4-4310 | 0.735 | 48.2 | 19.7 | 1.16 | 1.304 | 56.7 | 0.793 | 3.138 | 77.2 | 188.5 | --- | 5.626 | -1.15 | 0.228 | 61.4 | 261.0 | -3.9 | 0.253 |
| 4-3090 | 4-4330 | 0.727 | 48.8 | 19.9 | 1.20 | 1.304 | 57.2 | 0.791 | 3.154 | 76.1 | 188.9 | --- | 5.650 | -1.16 | 0.231 | 60.7 | 261.7 | -4.0 | 0.254 |
| 4-3090 | 4-4350 | 0.718 | 49.4 | 20.2 | 1.23 | 1.305 | 57.7 | 0.790 | 3.171 | 74.9 | 189.3 | --- | 5.675 | -1.18 | 0.234 | 59.9 | 262.3 | -4.0 | 0.255 |
| 4-3090 | 4-4370 | 0.710 | 50.0 | 20.4 | 1.27 | 1.306 | 58.2 | 0.788 | 3.188 | 73.8 | 189.7 | --- | 5.699 | -1.19 | 0.237 | 59.2 | 263.0 | -4.0 | 0.255 |
| 4-3090 | 4-4390 | 0.701 | 50.7 | 20.7 | 1.30 | 1.306 | 58.7 | 0.786 | 3.205 | 72.6 | 190.1 | --- | 5.724 | -1.21 | 0.239 | 58.6 | 263.8 | -4.0 | 0.256 |
| 4-3090 | 4-4410 | 0.693 | 51.3 | 20.9 | 1.34 | 1.307 | 59.2 | 0.785 | 3.221 | 71.5 | 190.5 | --- | 5.750 | -1.23 | 0.242 | 57.9 | 264.5 | -4.0 | 0.256 |
| 4-3090 | 4-4430 | 0.685 | 52.0 | 21.2 | 1.38 | 1.308 | 59.7 | 0.783 | 3.238 | 70.4 | 190.9 | --- | 5.775 | -1.24 | 0.245 | 57.3 | 265.3 | -4.1 | 0.257 |
| 4-3090 | 4-4450 | 0.676 | 52.6 | 21.5 | 1.42 | 1.308 | 60.2 | 0.782 | 3.255 | 69.2 | 191.3 | --- | 5.800 | -1.27 | 0.248 | 56.8 | 266.1 | -4.1 | 0.258 |
| 4-3090 | 4-4470 | 0.668 | 53.3 | 21.7 | 1.46 | 1.309 | 60.7 | 0.780 | 3.272 | 68.1 | 191.7 | --- | 5.826 | -1.29 | 0.251 | 56.2 | 266.9 | -4.1 | 0.258 |
| 4-3090 | 4-4490 | 0.660 | 54.0 | 22.0 | 1.50 | 1.309 | 61.2 | 0.779 | 3.289 | 66.9 | 192.0 | --- | 5.852 | -1.31 | 0.253 | 55.7 | 267.8 | -4.1 | 0.259 |
| 4-3090 | 4-4510 | 0.651 | 54.7 | 22.3 | 1.54 | 1.310 | 61.7 | 0.778 | 3.307 | 65.8 | 192.4 | --- | 5.878 | -1.34 | 0.256 | 55.2 | 268.6 | -4.1 | 0.260 |
| 4-3090 | 4-4530 | 0.643 | 55.4 | 22.6 | 1.59 | 1.311 | 62.2 | 0.776 | 3.324 | 64.6 | 192.8 | --- | 5.904 | -1.36 | 0.259 | 54.8 | 269.5 | -4.2 | 0.260 |
| 4-3090 | 4-4550 | 0.635 | 56.1 | 22.9 | 1.63 | 1.311 | 62.7 | 0.775 | 3.341 | 63.5 | 193.1 | --- | 5.930 | -1.39 | 0.261 | 54.3 | 270.4 | -4.2 | 0.261 |
| 4-3090 | 4-4570 | 0.627 | 56.9 | 23.2 | 1.68 | 1.312 | 63.3 | 0.774 | 3.358 | 62.3 | 193.5 | --- | 5.956 | -1.42 | 0.264 | 53.9 | 271.4 | -4.2 | 0.262 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3090 | 4-4590 | 0.619 | 57.6 | 23.5 | 1.73 | 1.312 | 63.8 | 0.773 | 3.375 | 61.2 | 193.9 | --- | 5.982 | -1.46 | 0.267 | 53.5 | 272.3 | -4.3 | 0.262 |
| 4-3090 | 4-4610 | 0.610 | 58.4 | 23.8 | 1.79 | 1.313 | 64.3 | 0.771 | 3.392 | 60.0 | 194.2 | --- | 6.009 | -1.50 | 0.269 | 53.1 | 273.3 | -4.3 | 0.263 |
| 4-3090 | 4-4630 | 0.602 | 59.2 | 24.1 | 1.84 | 1.314 | 64.8 | 0.770 | 3.409 | 58.8 | 194.6 | --- | 6.035 | -1.54 | 0.272 | 52.7 | 274.2 | -4.3 | 0.264 |
| 4-3090 | 4-4650 | 0.594 | 60.0 | 24.5 | 1.90 | 1.314 | 65.3 | 0.769 | 3.426 | 57.7 | 194.9 | --- | 6.061 | -1.58 | 0.274 | 52.3 | 275.2 | -4.3 | 0.265 |
| 4-3090 | 4-4670 | 0.586 | 60.8 | 24.8 | 1.97 | 1.315 | 65.8 | 0.768 | 3.443 | 56.5 | 195.3 | --- | 6.088 | -1.63 | 0.277 | 52.0 | 276.2 | -4.4 | 0.265 |
| 4-3090 | 4-4690 | 0.578 | 61.7 | 25.2 | 2.03 | 1.315 | 66.3 | 0.767 | 3.460 | 55.3 | 195.6 | --- | 6.114 | -1.68 | 0.279 | 51.7 | 277.2 | -4.4 | 0.266 |
| 4-3100 | 4-3420 | 1.350 | 34.2 | 13.4 | -0.75 | 1.396 | 24.7 | 0.9881 | 3.471 | 132.2 | 161.2 | --- | --- | -1.91 | 0.563 | 168.4 | 275.4 | -3.4 | 0.628 |
| 4-3100 | 4-3440 | 1.323 | 34.3 | 13.4 | -0.64 | 1.377 | 25.5 | 0.978 | 7.912 | 131.8 | 162.5 | --- | --- | -1.81 | 0.515 | 167.1 | 274.7 | -3.4 | 0.584 |
| 4-3100 | 4-3460 | 1.298 | 34.4 | 13.5 | -0.54 | 1.362 | 26.3 | 0.969 | 5.928 | 131.2 | 163.7 | --- | --- | -1.73 | 0.471 | 165.7 | 273.9 | -3.4 | 0.546 |
| 4-3100 | 4-3480 | 1.276 | 34.5 | 13.6 | -0.44 | 1.349 | 27.1 | 0.962 | 4.920 | 130.6 | 164.8 | --- | --- | -1.65 | 0.432 | 164.1 | 273.1 | -3.4 | 0.512 |
| 4-3100 | 4-3500 | 1.256 | 34.7 | 13.7 | -0.36 | 1.339 | 27.9 | 0.955 | 4.318 | 129.9 | 165.8 | --- | --- | -1.58 | 0.397 | 162.4 | 272.3 | -3.5 | 0.482 |
| 4-3100 | 4-3520 | 1.238 | 35.0 | 13.8 | -0.28 | 1.330 | 28.6 | 0.948 | 3.923 | 129.2 | 166.8 | --- | --- | -1.52 | 0.366 | 160.5 | 271.4 | -3.5 | 0.456 |
| 4-3100 | 4-3540 | 1.221 | 35.2 | 13.9 | -0.21 | 1.323 | 29.3 | 0.942 | 3.647 | 128.4 | 167.7 | --- | --- | -1.46 | 0.338 | 158.4 | 270.4 | -3.5 | 0.433 |
| 4-3100 | 4-3560 | 1.205 | 35.5 | 14.1 | -0.15 | 1.316 | 30.0 | 0.937 | 3.446 | 127.6 | 168.5 | --- | --- | -1.41 | 0.313 | 156.2 | 269.4 | -3.5 | 0.412 |
| 4-3100 | 4-3580 | 1.190 | 3518 | 14.2 | -0.09 | 1.311 | 30.7 | 0.931 | 3.297 | 126.7 | 169.4 | --- | --- | -1.37 | 0.290 | 153.8 | 268.4 | -3.5 | 0.394 |
| 4-3100 | 4-3600 | 1.176 | 36.2 | 14.3 | -0.03 | 1.307 | 31.4 | 0.926 | 3.182 | 125.8 | 170.1 | --- | --- | -1.33 | 0.269 | 151.1 | 267.5 | -3.5 | 0.377 |
| 4-3100 | 4-3620 | 1.162 | 36.5 | 14.5 | 0.03 | 1.304 | 32.0 | 0.921 | 3.094 | 124.9 | 170.9 | --- | --- | -1.29 | 0.251 | 148.3 | 266.4 | -3.5 | 0.363 |
| 4-3100 | 4-3640 | 1.150 | 36.9 | 14.6 | 0.08 | 1.301 | 32.7 | 0.917 | 3.025 | 123.9 | 171.6 | --- | --- | -1.25 | 0.235 | 145.2 | 265.5 | -3.5 | 0.350 |
| 4-3100 | 4-3660 | 1.137 | 37.3 | 14.8 | 0.12 | 1.299 | 33.3 | 0.912 | 2.971 | 123.0 | 172.3 | --- | --- | -1.22 | 0.220 | 141.9 | 264.5 | -3.5 | 0.339 |
| 4-3100 | 4-3680 | 1.125 | 37.7 | 15.0 | 0.17 | 1.297 | 34.0 | 0.908 | 2.928 | 122.0 | 173.0 | --- | --- | -1.19 | 0.208 | 138.4 | 263.5 | -3.5 | 0.329 |
| 4-3100 | 4-3700 | 1.113 | 38.1 | 15.1 | 0.21 | 1.295 | 34.6 | 0.904 | 2.895 | 121.0 | 173.6 | --- | --- | -1.16 | 0.197 | 134.7 | 262.6 | -3.5 | 0.320 |
| 4-3100 | 4-3720 | 1.102 | 38.5 | 15.3 | 0.26 | 1.294 | 35.2 | 0.900 | 2.869 | 119.9 | 174.2 | --- | --- | -1.14 | 0.187 | 130.9 | 261.7 | -3.6 | 0.312 |
| 4-3100 | 4-3740 | 1.091 | 38.9 | 15.5 | 0.29 | 1.293 | 35.8 | 0.896 | 2.850 | 118.9 | 174.8 | --- | --- | -1.12 | 0.179 | 126.9 | 260.9 | -3.6 | 0.305 |
| 4-3100 | 4-3760 | 1.080 | 39.3 | 15.6 | 0.33 | 1.293 | 36.5 | 0.893 | 2.836 | 117.8 | 175.4 | --- | --- | -1.10 | 0.173 | 122.8 | 260.1 | -3.6 | 0.299 |
| 4-3100 | 4-3780 | 1.069 | 39.8 | 15.8 | 0.37 | 1.292 | 37.1 | 0.889 | 2.826 | 116.8 | 176.0 | --- | --- | -1.08 | 0.167 | 118.6 | 259.4 | -3.6 | 0.294 |
| 4-3100 | 4-3800 | 1.058 | 40.2 | 16.0 | 0.40 | 1.292 | 37.7 | 0.885 | 2.819 | 115.7 | 176.6 | --- | --- | -1.06 | 0.163 | 114.5 | 258.7 | -3.6 | 0.290 |
| 4-3100 | 4-3820 | 1.048 | 40.7 | 16.1 | 0.44 | 1.292 | 38.3 | 0.882 | 2.816 | 114.6 | 177.1 | --- | --- | -1.04 | 0.161 | 110.4 | 258.1 | -3.6 | 0.286 |
| 4-3100 | 4-3840 | 1.038 | 41.1 | 16.3 | 0.47 | 1.292 | 38.9 | 0.879 | 2.816 | 113.5 | 177.7 | --- | --- | -1.03 | 0.159 | 106.3 | 257.5 | -3.6 | 0.282 |
| 4-3100 | 4-3860 | 1.028 | 41.6 | 16.5 | 0.50 | 1.292 | 39.5 | 0.875 | 2.817 | 112.4 | 178.2 | --- | --- | -1.02 | 0.158 | 102.4 | 257.0 | -3.5 | 0.279 |
| 4-3100 | 4-3880 | 1.018 | 42.1 | 16.7 | 0.53 | 1.292 | 40.0 | 0.872 | 2.821 | 111.3 | 178.7 | --- | --- | -1.00 | 0.158 | 98.7 | 256.6 | -3.5 | 0.276 |
| 4-3100 | 4-3900 | 1.008 | 42.6 | 16.8 | 0.56 | 1.292 | 40.6 | 0.869 | 2.826 | 110.2 | 179.2 | --- | --- | -0.99 | 0.158 | 95.2 | 256.3 | -3.5 | 0.274 |
| 4-3100 | 4-3920 | 0.998 | 43.0 | 17.0 | 0.59 | 1.292 | 41.2 | 0.866 | 2.833 | 109.1 | 179.7 | --- | --- | -0.98 | 0.159 | 91.8 | 256.0 | -3.5 | 0.272 |
| 4-3100 | 4-3940 | 0.988 | 4315 | 17.2 | 0.62 | 1.293 | 41.8 | 0.863 | 2.841 | 108.0 | 180.2 | --- | 5.293 | -0.97 | 0.161 | 88.7 | 255.8 | -3.6 | 0.271 |
| 4-3100 | 4-3960 | 0.978 | 44.0 | 17.4 | 0.65 | 1.293 | 42.3 | 0.860 | 2.850 | 106.9 | 180.7 | --- | 5.301 | -0.96 | 0.163 | 85.8 | 255.6 | -3.6 | 0.269 |
| 4-3100 | 4-3980 | 0.969 | 44.5 | 17.5 | 0.68 | 1.294 | 42.9 | 0.857 | 2.860 | 105.8 | 181.2 | --- | 5.312 | -0.96 | 0.165 | 83.0 | 255.5 | -3.6 | 0.268 |
| 4-3100 | 4-4000 | 0.959 | 45.0 | 17.7 | 0.71 | 1.294 | 43.5 | 0.854 | 2.871 | 104.6 | 181.6 | --- | 5.325 | -0.95 | 0.168 | 80.5 | 255.5 | -3.6 | 0.267 |
| 4-3100 | 4-4020 | 0.950 | 45.5 | 17.9 | 0.73 | 1.295 | 44.1 | 0.852 | 2.883 | 103.5 | 182.1 | --- | 5.339 | -0.94 | 0.171 | 78.2 | 255.5 | -3.6 | 0.266 |
| 4-3100 | 4-4040 | 0.940 | 46.0 | 18.1 | 0.76 | 1.295 | 44.6 | 0.849 | 2.896 | 102.4 | 182.5 | --- | 5.354 | -0.94 | 0.174 | 76.0 | 255.6 | -3.6 | 0.266 |
| 4-3100 | 4-4060 | 0.931 | 46.5 | 18.3 | 0.79 | 1.296 | 45.2 | 0.846 | 2.909 | 101.2 | 183.0 | --- | 5.371 | -0.94 | 0.177 | 74.1 | 255.7 | -3.6 | 0.265 |
| 4-3100 | 4-4080 | 0.921 | 47.0 | 18.5 | 0.81 | 1.297 | 45.7 | 0.844 | 2.923 | 100.1 | 183.4 | --- | 5.389 | -0.93 | 0.181 | 72.2 | 255.9 | -3.6 | 0.265 |
| 4-3100 | 4-4100 | 0.912 | 47.6 | 18.6 | 0.84 | 1.297 | 46.3 | 0.841 | 2.937 | 99.0 | 183.9 | --- | 5.408 | -0.93 | 0.184 | 70.5 | 256.1 | -3.6 | 0.265 |
| 4-3100 | 4-4120 | 0.903 | 48.1 | 18.8 | 0.86 | 1.298 | 46.8 | 0.839 | 2.952 | 97.8 | 184.3 | --- | 5.428 | -0.93 | 0.187 | 69.0 | 256.4 | -3.6 | 0.265 |
| 4-3100 | 4-4140 | 0.893 | 48.6 | 19.0 | 0.89 | 1.299 | 47.4 | 0.836 | 2.967 | 96.7 | 184.7 | --- | 5.448 | -0.93 | 0.191 | 67.5 | 256.8 | -3.6 | 0.265 |
| 4-3100 | 4-4160 | 0.884 | 49.1 | 19.2 | 0.91 | 1.299 | 47.9 | 0.834 | 2.982 | 95.5 | 185.2 | --- | 5.469 | -0.93 | 0.194 | 66.2 | 257.1 | -3.6 | 0.265 |
| 4-3100 | 4-4180 | 0.875 | 49.7 | 19.4 | 0.94 | 1.300 | 48.5 | 0.831 | 2.998 | 94.4 | 185.6 | --- | 5.491 | -0.93 | 0.198 | 64.9 | 257.5 | -3.6 | 0.265 |
| 4-3100 | 4-4200 | 0.866 | 5012 | 19.6 | 0.96 | 1.301 | 49.0 | 0.829 | 3.014 | 93.2 | 186.0 | --- | 5.513 | -0.93 | 0.201 | 63.8 | 258.0 | -3.6 | 0.265 |
| 4-3100 | 4-4220 | 0.857 | 50.8 | 19.8 | 0.99 | 1.301 | 49.6 | 0.827 | 3.030 | 92.1 | 186.4 | --- | 5.536 | -0.93 | 0.205 | 62.7 | 258.5 | -3.6 | 0.265 |
| 4-3100 | 4-4240 | 0.848 | 51.3 | 19.9 | 1.02 | 1.302 | 50.1 | 0.825 | 3.047 | 90.9 | 186.8 | --- | 5.559 | -0.93 | 0.208 | 61.7 | 259.0 | -3.7 | 0.265 |
| 4-3100 | 4-4260 | 0.839 | 51.9 | 20.1 | 1.04 | 1.303 | 50.6 | 0.822 | 3.064 | 89.8 | 187.2 | --- | 5.583 | -0.93 | 0.212 | 60.7 | 259.6 | -3.7 | 0.266 |
| 4-3100 | 4-4280 | 0.830 | 52.5 | 20.3 | 1.07 | 1.303 | 51.2 | 0.820 | 3.080 | 88.7 | 187.6 | --- | 5.607 | -0.94 | 0.215 | 59.9 | 260.2 | -3.7 | 0.266 |
| 4-3100 | 4-4300 | 0.821 | 53.0 | 20.5 | 1.09 | 1.304 | 51.7 | 0.818 | 3.097 | 87.5 | 188.0 | --- | 5.631 | -0.94 | 0.219 | 59.1 | 260.8 | -3.7 | 0.266 |
| 4-3100 | 4-4320 | 0.812 | 53.6 | 20.7 | 1.12 | 1.305 | 52.3 | 0.816 | 3.114 | 86.3 | 188.4 | --- | 5.656 | -0.95 | 0.222 | 58.3 | 261.5 | -3.7 | 0.267 |
| 4-3100 | 4-4340 | 0.803 | 54.2 | 20.9 | 1.14 | 1.305 | 52.8 | 0.814 | 3.132 | 85.2 | 188.8 | --- | 5.681 | -0.95 | 0.225 | 57.6 | 262.2 | -3.7 | 0.267 |
| 4-3100 | 4-4360 | 0.794 | 54.8 | 21.1 | 1.17 | 1.306 | 53.3 | 0.812 | 3.149 | 84.0 | 189.1 | --- | 5.706 | -0.96 | 0.228 | 56.9 | 262.9 | -3.7 | 0.267 |
| 4-3100 | 4-4380 | 0.785 | 55.4 | 21.3 | 1.20 | 1.307 | 53.8 | 0.810 | 3.166 | 82.9 | 189.5 | --- | 5.732 | -0.97 | 0.232 | 56.3 | 263.6 | -3.7 | 0.268 |
| 4-3100 | 4-4400 | 0.776 | 56.0 | 21.5 | 1.22 | 1.307 | 54.4 | 0.808 | 3.184 | 81.7 | 189.9 | --- | 5.757 | -0.97 | 0.235 | 55.7 | 264.4 | -3.8 | 0.268 |
| 4-3100 | 4-4420 | 0.767 | 56.6 | 21.7 | 1.25 | 1.308 | 54.9 | 0.806 | 3.201 | 80.6 | 190.3 | --- | 5.783 | -0.98 | 0.238 | 55.1 | 265.2 | -3.8 | 0.269 |
| 4-3100 | 4-4440 | 0.758 | 57.3 | 21.9 | 1.28 | 1.309 | 55.4 | 0.805 | 3.219 | 79.4 | 190.7 | --- | 5.809 | -0.99 | 0.241 | 54.6 | 266.0 | -3.8 | 0.269 |
| 4-3100 | 4-4460 | 0.749 | 57.9 | 22.1 | 1.31 | 1.309 | 56.0 | 0.803 | 3.236 | 78.3 | 191.0 | --- | 5.835 | -1.00 | 0.244 | 54.1 | 266.8 | -3.8 | 0.270 |
| 4-3100 | 4-4480 | 0.741 | 58.5 | 22.3 | 1.34 | 1.310 | 56.5 | 0.801 | 3.254 | 77.1 | 191.4 | --- | 5.861 | -1.02 | 0.247 | 53.6 | 267.7 | -3.8 | 0.270 |
| 4-3100 | 4-4500 | 0.732 | 59.2 | 22.5 | 1.37 | 1.311 | 57.0 | 0.799 | 3.271 | 75.9 | 191.7 | --- | 5.887 | -1.03 | 0.253 | 53.2 | 268.5 | -3.8 | 0.270 |
| 4-3100 | 4-4520 | 0.723 | 59.9 | 22.7 | 1.40 | 1.311 | 57.5 | 0.798 | 3.289 | 74.8 | 192.1 | --- | 5.913 | -1.04 | 0.253 | 52.7 | 269.4 | -3.8 | 0.271 |
| 4-3100 | 4-4540 | 0.714 | 60.5 | 23.0 | 1.43 | 1.312 | 58.0 | 0.796 | 3.307 | 73.6 | 192.5 | --- | 5.939 | -1.06 | 0.256 | 52.3 | 270.3 | -3.9 | 0.271 |
| 4-3100 | 4-4560 | 0.706 | 61.2 | 23.2 | 1.46 | 1.312 | 58.6 | 0.795 | 3.324 | 72.5 | 192.8 | --- | 5.966 | -1.07 | 0.258 | 51.9 | 271.2 | -3.9 | 0.272 |
| 4-3100 | 4-4580 | 0.697 | 61.9 | 23.4 | 1.50 | 1.313 | 59.1 | 0.793 | 3.342 | 71.3 | 193.2 | --- | 5.992 | -1.09 | 0.261 | 51.6 | 272.2 | -3.9 | 0.272 |
| 4-3100 | 4-4600 | 0.688 | 62.6 | 23.6 | 1.53 | 1.314 | 59.6 | 0.792 | 3.359 | 70.1 | 193.5 | --- | 6.019 | -1.11 | 0.264 | 51.2 | 273.1 | -3.9 | 0.273 |
| 4-3100 | 4-4620 | 0.680 | 63.3 | 23.9 | 1.57 | 1.314 | 60.1 | 0.790 | 3.377 | 69.0 | 193.9 | --- | 6.045 | -1.13 | 0.267 | 50.9 | 274.1 | -3.9 | 0.273 |
| 4-3100 | 4-4640 | 0.671 | 6410 | 24.1 | 1.60 | 1.315 | 60.6 | 0.789 | 3.395 | 67.8 | 194.2 | --- | 6.072 | -1.15 | 0.269 | 50.6 | 275.1 | -3.9 | 0.274 |
| 4-3100 | 4-4660 | 0.663 | 6448 | 24.3 | 1.64 | 1.315 | 61.2 | 0.787 | 3.412 | 66.6 | 194.6 | --- | 6.098 | -1.17 | 0.272 | 50.2 | 276.1 | -3.9 | 0.275 |
| 4-3100 | 4-4680 | 0.654 | 65.5 | 24.6 | 1.68 | 1.316 | 61.7 | 0.786 | 3.430 | 65.5 | 194.9 | --- | 6.125 | -1.20 | 0.274 | 49.9 | 277.1 | -4.0 | 0.275 |
| 4-3100 | 4-4700 | 0.646 | 66.3 | 24.8 | 1.72 | 1.317 | 62.2 | 0.785 | 3.447 | 64.3 | 195.2 | --- | 6.151 | -1.23 | 0.277 | 49.7 | 278.1 | -4.0 | 0.276 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3300 | 4-3700 | 0.907 | 64.7 | 21.0 | -0.31 | 1.423 | 128.8 | 1.03 | 319.061 | 283.9 | 497.1 | 0.623 | --- | -1.03 | 0.661 | 160.9 | 311.0 | -2.7 | 0.643 |
| 4-3300 | 4-3720 | 0.875 | 64.4 | 20.9 | -0.36 | 1.403 | 127.7 | 0.99 | 819.815 | 284.5 | 499.3 | 0.634 | --- | -0.99 | 0.617 | 159.5 | 311.2 | -2.7 | 0.599 |
| 4-3300 | 4-3740 | 0.847 | 64.1 | 20.8 | -0.41 | 1.386 | 126.8 | 0.96 | 819.939 | 285.0 | 501.5 | 0.645 | --- | -0.95 | 0.577 | 158.1 | 311.3 | -2.7 | 0.559 |
| 4-3300 | 4-3760 | 0.823 | 63.8 | 20.6 | -0.45 | 1.371 | 126.0 | 0.94 | 111.101 | 285.4 | 503.6 | 0.654 | --- | -0.92 | 0.541 | 156.5 | 311.3 | -2.7 | 0.524 |
| 4-3300 | 4-3780 | 0.802 | 63.6 | 20.5 | -0.50 | 1.359 | 125.2 | 0.918 | 8.055 | 285.8 | 505.6 | 0.662 | --- | -0.89 | 0.508 | 154.9 | 311.2 | -2.7 | 0.491 |
| 4-3300 | 4-3800 | 0.783 | 63.4 | 20.4 | -0.53 | 1.348 | 124.6 | 0.897 | 6.522 | 286.2 | 507.6 | 0.669 | --- | -0.86 | 0.478 | 153.3 | 311.0 | -2.7 | 0.461 |
| 4-3300 | 4-3820 | 0.767 | 63.2 | 20.3 | -0.57 | 1.339 | 124.0 | 0.880 | 5.606 | 286.5 | 509.6 | 0.675 | --- | -0.83 | 0.450 | 151.5 | 310.7 | -2.7 | 0.434 |
| 4-3300 | 4-3840 | 0.753 | 63.1 | 20.2 | -0.60 | 1.331 | 123.5 | 0.864 | 5.000 | 286.7 | 511.5 | 0.680 | --- | -0.81 | 0.425 | 149.7 | 310.4 | -2.8 | 0.410 |
| 4-3300 | 4-3860 | 0.741 | 63.0 | 20.2 | -0.63 | 1.324 | 123.1 | 0.850 | 4.573 | 286.9 | 513.3 | 0.684 | --- | -0.78 | 0.402 | 147.8 | 309.9 | -2.8 | 0.387 |
| 4-3300 | 4-3880 | 0.731 | 62.9 | 20.1 | -0.66 | 1.318 | 122.7 | 0.838 | 4.259 | 287.1 | 515.0 | 0.688 | --- | -0.76 | 0.380 | 145.9 | 309.3 | -2.8 | 0.367 |
| 4-3300 | 4-3900 | 0.722 | 62.8 | 20.0 | -0.69 | 1.312 | 122.4 | 0.828 | 4.019 | 287.2 | 516.7 | 0.691 | --- | -0.74 | 0.361 | 143.8 | 308.7 | -2.9 | 0.348 |
| 4-3300 | 4-3920 | 0.715 | 62.8 | 20.0 | -0.72 | 1.308 | 122.2 | 0.819 | 3.832 | 287.2 | 518.4 | 0.693 | --- | -0.73 | 0.343 | 141.7 | 307.9 | -2.9 | 0.331 |
| 4-3300 | 4-3940 | 0.709 | 62.9 | 19.9 | -0.75 | 1.304 | 122.0 | 0.811 | 3.683 | 287.2 | 520.0 | 0.694 | --- | -0.71 | 0.326 | 139.5 | 307.0 | -2.9 | 0.316 |
| 4-3300 | 4-3960 | 0.705 | 62.9 | 19.9 | -0.77 | 1.300 | 121.9 | 0.805 | 3.562 | 287.1 | 521.5 | 0.695 | --- | -0.70 | 0.311 | 137.2 | 306.1 | -3.0 | 0.302 |
| 4-3300 | 4-3980 | 0.701 | 63.0 | 19.9 | -0.79 | 1.297 | 121.8 | 0.799 | 3.464 | 287.0 | 523.0 | 0.696 | --- | -0.68 | 0.297 | 134.8 | 305.0 | -3.0 | 0.290 |
| 4-3300 | 4-4000 | 0.698 | 63.1 | 19.8 | -0.82 | 1.294 | 121.7 | 0.794 | 3.383 | 286.8 | 524.4 | 0.695 | --- | -0.67 | 0.284 | 132.3 | 303.9 | -3.1 | 0.279 |
| 4-3300 | 4-4020 | 0.697 | 63.2 | 19.8 | -0.84 | 1.292 | 121.7 | 0.791 | 3.316 | 286.6 | 525.7 | 0.695 | --- | -0.66 | 0.273 | 129.8 | 302.7 | -3.1 | 0.269 |
| 4-3300 | 4-4040 | 0.696 | 63.4 | 19.8 | -0.86 | 1.290 | 121.8 | 0.787 | 3.260 | 286.3 | 527.1 | 0.693 | --- | -0.65 | 0.262 | 127.2 | 301.4 | -3.1 | 0.260 |
| 4-3300 | 4-4060 | 0.696 | 63.6 | 19.8 | -0.88 | 1.288 | 121.8 | 0.785 | 3.213 | 286.0 | 528.3 | 0.691 | --- | -0.64 | 0.253 | 124.5 | 300.1 | -3.2 | 0.252 |
| 4-3300 | 4-4080 | 0.697 | 63.8 | 19.8 | -0.90 | 1.287 | 121.9 | 0.783 | 3.173 | 285.6 | 529.5 | 0.689 | --- | -0.63 | 0.244 | 121.7 | 298.7 | -3.2 | 0.246 |
| 4-3300 | 4-4100 | 0.698 | 64.1 | 19.9 | -0.92 | 1.286 | 122.0 | 0.781 | 3.141 | 285.2 | 530.7 | 0.686 | --- | -0.62 | 0.236 | 118.9 | 297.3 | -3.3 | 0.240 |
| 4-3300 | 4-4120 | 0.700 | 64.4 | 19.9 | -0.94 | 1.284 | 122.2 | 0.781 | 3.113 | 284.7 | 531.8 | 0.683 | --- | -0.62 | 0.230 | 116.1 | 296.0 | -3.3 | 0.235 |
| 4-3300 | 4-4140 | 0.703 | 64.7 | 19.9 | -0.95 | 1.284 | 122.4 | 0.780 | 3.090 | 284.2 | 532.9 | 0.679 | --- | -0.61 | 0.223 | 113.2 | 294.6 | -3.3 | 0.231 |
| 4-3300 | 4-4160 | 0.706 | 65.0 | 19.9 | -0.97 | 1.283 | 122.6 | 0.780 | 3.072 | 283.7 | 533.9 | 0.675 | --- | -0.60 | 0.218 | 110.3 | 293.3 | -3.4 | 0.228 |
| 4-3300 | 4-4180 | 0.709 | 65.3 | 20.0 | -0.99 | 1.282 | 122.8 | 0.780 | 3.056 | 283.1 | 534.9 | 0.671 | --- | -0.60 | 0.213 | 107.4 | 292.0 | -3.4 | 0.226 |
| 4-3300 | 4-4200 | 0.714 | 65.7 | 20.0 | -1.01 | 1.282 | 123.1 | 0.781 | 3.044 | 282.5 | 535.8 | 0.666 | --- | -0.59 | 0.209 | 104.4 | 290.7 | -3.4 | 0.224 |
| 4-3300 | 4-4220 | 0.718 | 66.1 | 20.1 | -1.02 | 1.281 | 123.4 | 0.782 | 3.034 | 281.9 | 536.7 | 0.661 | --- | -0.59 | 0.206 | 101.5 | 289.6 | -3.4 | 0.223 |
| 4-3300 | 4-4240 | 0.724 | 66.5 | 20.1 | -1.04 | 1.281 | 123.7 | 0.783 | 3.027 | 281.2 | 537.6 | 0.655 | --- | -0.58 | 0.203 | 98.6 | 288.5 | -3.4 | 0.223 |
| 4-3300 | 4-4260 | 0.729 | 66.9 | 20.2 | -1.06 | 1.281 | 124.1 | 0.785 | 3.022 | 280.5 | 538.4 | 0.649 | --- | -0.58 | 0.201 | 95.7 | 287.5 | -3.4 | 0.223 |
| 4-3300 | 4-4280 | 0.735 | 67.3 | 20.2 | -1.07 | 1.281 | 124.4 | 0.787 | 3.018 | 279.7 | 539.2 | 0.643 | --- | -0.58 | 0.199 | 92.9 | 286.6 | -3.5 | 0.224 |
| 4-3300 | 4-4300 | 0.741 | 67.8 | 20.3 | -1.09 | 1.280 | 124.8 | 0.789 | 3.016 | 278.9 | 540.0 | 0.637 | --- | -0.57 | 0.198 | 90.1 | 285.7 | -3.5 | 0.225 |
| 4-3300 | 4-4320 | 0.748 | 68.2 | 20.4 | -1.10 | 1.280 | 125.2 | 0.791 | 3.016 | 278.1 | 540.7 | 0.630 | 5.402 | -0.57 | 0.197 | 87.4 | 285.0 | -3.5 | 0.226 |
| 4-3300 | 4-4340 | 0.755 | 68.7 | 20.4 | -1.12 | 1.280 | 125.6 | 0.794 | 3.016 | 277.2 | 541.4 | 0.622 | 5.411 | -0.57 | 0.196 | 84.7 | 284.4 | -3.5 | 0.228 |
| 4-3300 | 4-4360 | 0.763 | 69.2 | 20.5 | -1.13 | 1.281 | 126.0 | 0.796 | 3.018 | 276.4 | 542.0 | 0.615 | 5.422 | -0.57 | 0.196 | 82.1 | 283.9 | -3.5 | 0.230 |
| 4-3300 | 4-4380 | 0.771 | 69.7 | 20.6 | -1.15 | 1.281 | 126.5 | 0.799 | 3.021 | 275.5 | 542.7 | 0.607 | 5.436 | -0.57 | 0.196 | 79.5 | 283.5 | -3.5 | 0.233 |
| 4-3300 | 4-4400 | 0.779 | 70.2 | 20.7 | -1.16 | 1.281 | 126.9 | 0.802 | 3.025 | 274.5 | 543.3 | 0.599 | 5.452 | -0.57 | 0.197 | 77.1 | 283.2 | -3.4 | 0.235 |
| 4-3300 | 4-4420 | 0.787 | 70.7 | 20.7 | -1.18 | 1.281 | 127.4 | 0.805 | 3.030 | 273.6 | 543.8 | 0.590 | 5.470 | -0.57 | 0.197 | 74.7 | 283.0 | -3.4 | 0.238 |
| 4-3300 | 4-4440 | 0.796 | 71.3 | 20.8 | -1.19 | 1.281 | 127.9 | 0.808 | 3.036 | 272.6 | 544.4 | 0.581 | 5.490 | -0.57 | 0.198 | 72.3 | 282.9 | -3.4 | 0.241 |
| 4-3300 | 4-4460 | 0.805 | 71.8 | 20.9 | -1.21 | 1.282 | 128.5 | 0.812 | 3.042 | 271.6 | 544.9 | 0.572 | 5.512 | -0.57 | 0.200 | 70.1 | 282.9 | -3.4 | 0.245 |
| 4-3300 | 4-4480 | 0.815 | 72.4 | 20.9 | -1.22 | 1.282 | 129.0 | 0.815 | 3.049 | 270.5 | 545.4 | 0.563 | 5.535 | -0.57 | 0.201 | 67.9 | 282.9 | -3.4 | 0.248 |
| 4-3300 | 4-4500 | 0.824 | 72.9 | 21.0 | -1.24 | 1.282 | 129.5 | 0.819 | 3.057 | 269.5 | 545.8 | 0.553 | 5.560 | -0.57 | 0.202 | 65.8 | 283.1 | -3.4 | 0.252 |
| 4-3300 | 4-4520 | 0.834 | 73.5 | 21.1 | -1.25 | 1.282 | 130.1 | 0.823 | 3.065 | 268.4 | 546.3 | 0.544 | 5.586 | -0.57 | 0.204 | 63.8 | 283.3 | -3.4 | 0.256 |
| 4-3300 | 4-4540 | 0.844 | 74.1 | 21.2 | -1.27 | 1.283 | 130.7 | 0.826 | 3.074 | 267.2 | 546.7 | 0.534 | 5.613 | -0.57 | 0.206 | 61.8 | 283.6 | -3.4 | 0.259 |
| 4-3300 | 4-4560 | 0.855 | 74.7 | 21.2 | -1.29 | 1.283 | 131.3 | 0.830 | 3.083 | 266.1 | 547.1 | 0.523 | 5.642 | -0.58 | 0.208 | 59.9 | 284.0 | -3.4 | 0.263 |
| 4-3300 | 4-4580 | 0.866 | 75.3 | 21.3 | -1.30 | 1.284 | 131.9 | 0.834 | 3.092 | 265.0 | 547.4 | 0.513 | 5.672 | -0.58 | 0.210 | 58.1 | 284.4 | -3.4 | 0.267 |
| 4-3300 | 4-4600 | 0.877 | 75.9 | 21.4 | -1.32 | 1.284 | 132.5 | 0.838 | 3.102 | 263.8 | 547.7 | 0.502 | 5.702 | -0.58 | 0.212 | 56.3 | 284.9 | -3.3 | 0.272 |
| 4-3300 | 4-4620 | 0.888 | 76.5 | 21.5 | -1.33 | 1.284 | 133.1 | 0.842 | 3.112 | 262.6 | 548.1 | 0.491 | 5.734 | -0.59 | 0.214 | 54.6 | 285.5 | -3.3 | 0.276 |
| 4-3300 | 4-4640 | 0.899 | 77.1 | 21.5 | -1.35 | 1.285 | 133.8 | 0.846 | 3.123 | 261.3 | 548.3 | 0.480 | 5.766 | -0.59 | 0.217 | 52.9 | 286.1 | -3.3 | 0.280 |
| 4-3300 | 4-4660 | 0.911 | 77.8 | 21.6 | -1.37 | 1.285 | 134.5 | 0.851 | 3.134 | 260.1 | 548.6 | 0.468 | 5.800 | -0.60 | 0.219 | 51.3 | 286.8 | -3.3 | 0.285 |
| 4-3300 | 4-4680 | 0.923 | 78.4 | 21.7 | -1.38 | 1.286 | 135.1 | 0.855 | 3.145 | 258.8 | 548.9 | 0.456 | 5.834 | -0.60 | 0.221 | 49.7 | 287.5 | -3.3 | 0.289 |
| 4-3300 | 4-4700 | 0.935 | 79.0 | 21.7 | -1.40 | 1.286 | 135.8 | 0.859 | 3.157 | 257.5 | 549.1 | 0.445 | 5.869 | -0.61 | 0.224 | 48.2 | 288.3 | -3.3 | 0.294 |
| 4-3300 | 4-4720 | 0.948 | 79.7 | 21.8 | -1.42 | 1.287 | 136.6 | 0.863 | 3.168 | 256.2 | 549.3 | 0.433 | 5.904 | -0.62 | 0.226 | 46.7 | 289.1 | -3.2 | 0.298 |
| 4-3300 | 4-4740 | 0.960 | 80.3 | 21.8 | -1.44 | 1.287 | 137.3 | 0.868 | 3.180 | 254.9 | 549.5 | 0.420 | 5.940 | -0.62 | 0.229 | 45.3 | 290.0 | -3.2 | 0.303 |
| 4-3300 | 4-4760 | 0.973 | 81.0 | 21.9 | -1.45 | 1.288 | 138.0 | 0.872 | 3.193 | 253.5 | 549.6 | 0.408 | 5.977 | -0.63 | 0.231 | 43.9 | 290.9 | -3.2 | 0.307 |
| 4-3300 | 4-4780 | 0.986 | 81.7 | 22.0 | -1.47 | 1.288 | 138.8 | 0.877 | 3.205 | 252.2 | 549.8 | 0.396 | 6.015 | -0.64 | 0.234 | 42.5 | 291.9 | -3.2 | 0.312 |
| 4-3300 | 4-4800 | 0.999 | 82.3 | 22.0 | -1.49 | 1.289 | 139.5 | 0.881 | 3.218 | 250.8 | 549.9 | 0.383 | 6.053 | -0.65 | 0.236 | 41.2 | 292.9 | -3.1 | 0.317 |
| 4-3300 | 4-4820 | 1.013 | 83.0 | 22.1 | -1.51 | 1.289 | 140.3 | 0.885 | 3.231 | 249.4 | 550.0 | 0.370 | 6.091 | -0.66 | 0.239 | 39.9 | 293.9 | -3.1 | 0.322 |
| 4-3300 | 4-4840 | 1.027 | 83.7 | 22.1 | -1.53 | 1.289 | 141.1 | 0.890 | 3.244 | 247.9 | 550.0 | 0.357 | 6.130 | -0.67 | 0.242 | 38.6 | 295.0 | -3.1 | 0.326 |
| 4-3300 | 4-4860 | 1.040 | 84.4 | 22.2 | -1.55 | 1.290 | 141.9 | 0.894 | 3.257 | 246.5 | 550.1 | 0.345 | 6.169 | -0.68 | 0.244 | 37.3 | 296.1 | -3.1 | 0.331 |
| 4-3300 | 4-4880 | 1.055 | 85.1 | 22.2 | -1.57 | 1.290 | 142.7 | 0.899 | 3.270 | 245.0 | 550.1 | 0.332 | 6.209 | -0.69 | 0.247 | 36.1 | 297.2 | -3.0 | 0.336 |
| 4-3300 | 4-4900 | 1.069 | 85.8 | 22.2 | -1.60 | 1.291 | 143.5 | 0.903 | 3.284 | 243.5 | 550.2 | 0.318 | 6.249 | -0.71 | 0.250 | 34.9 | 298.3 | -3.0 | 0.341 |
| 4-3310 | 4-3710 | 0.854 | 70.7 | 21.6 | -0.46 | 1.425 | 125.7 | 1.04 | 216.116 | 290.3 | 494.8 | 0.678 | --- | -0.88 | 0.668 | 160.2 | 312.8 | -2.6 | 0.643 |
| 4-3310 | 4-3730 | 0.822 | 70.4 | 21.5 | -0.51 | 1.405 | 124.6 | 1.00 | 466.149 | 290.9 | 497.1 | 0.689 | --- | -0.83 | 0.624 | 158.8 | 313.0 | -2.6 | 0.599 |
| 4-3310 | 4-3750 | 0.794 | 70.0 | 21.3 | -0.56 | 1.388 | 123.7 | 0.97 | 124.180 | 291.5 | 499.3 | 0.699 | --- | -0.78 | 0.584 | 157.4 | 313.1 | -2.6 | 0.560 |
| 4-3310 | 4-3770 | 0.769 | 69.7 | 21.2 | -0.61 | 1.374 | 122.8 | 0.94 | 212.249 | 292.1 | 501.5 | 0.708 | --- | -0.74 | 0.548 | 155.9 | 313.2 | -2.6 | 0.524 |
| 4-3310 | 4-3790 | 0.748 | 69.4 | 21.1 | -0.65 | 1.361 | 122.1 | 0.917 | 8.619 | 292.5 | 503.6 | 0.716 | --- | -0.70 | 0.515 | 154.3 | 313.1 | -2.6 | 0.491 |
| 4-3310 | 4-3810 | 0.729 | 69.1 | 21.0 | -0.69 | 1.350 | 121.4 | 0.895 | 6.873 | 293.0 | 505.7 | 0.723 | --- | -0.67 | 0.485 | 152.6 | 313.0 | -2.6 | 0.462 |
| 4-3310 | 4-3830 | 0.713 | 68.9 | 20.8 | -0.72 | 1.341 | 120.8 | 0.875 | 5.853 | 293.3 | 507.7 | 0.730 | --- | -0.64 | 0.458 | 150.9 | 312.8 | -2.6 | 0.434 |
| 4-3310 | 4-3850 | 0.698 | 68.7 | 20.7 | -0.75 | 1.333 | 120.3 | 0.858 | 5.189 | 293.7 | 509.6 | 0.735 | --- | -0.62 | 0.433 | 149.1 | 312.5 | -2.6 | 0.410 |
| 4-3310 | 4-3870 | 0.686 | 68.5 | 20.7 | -0.78 | 1.326 | 119.9 | 0.844 | 4.725 | 293.9 | 511.5 | 0.739 | --- | -0.60 | 0.410 | 147.3 | 312.1 | -2.6 | 0.387 |
| 4-3310 | 4-3890 | 0.676 | 68.4 | 20.6 | -0.81 | 1.319 | 119.5 | 0.831 | 4.386 | 294.1 | 513.3 | 0.743 | --- | -0.58 | 0.389 | 145.3 | 311.6 | -2.6 | 0.366 |
| 4-3310 | 4-3910 | 0.667 | 68.3 | 20.5 | -0.83 | 1.314 | 119.2 | 0.819 | 4.128 | 294.3 | 515.1 | 0.746 | --- | -0.56 | 0.369 | 143.3 | 311.0 | -2.7 | 0.348 |
| 4-3310 | 4-3930 | 0.659 | 68.3 | 20.4 | -0.86 | 1.309 | 118.9 | 0.809 | 3.928 | 294.4 | 516.8 | 0.749 | --- | -0.54 | 0.351 | 141.2 | 310.3 | -2.7 | 0.330 |
| 4-3310 | 4-3950 | 0.653 | 68.2 | 20.4 | -0.88 | 1.305 | 118.7 | 0.801 | 3.769 | 294.4 | 518.4 | 0.751 | --- | -0.52 | 0.335 | 139.1 | 309.5 | -2.7 | 0.315 |
| 4-3310 | 4-3970 | 0.648 | 68.3 | 20.3 | -0.90 | 1.302 | 118.6 | 0.793 | 3.640 | 294.4 | 520.0 | 0.752 | --- | -0.51 | 0.320 | 136.8 | 308.7 | -2.8 | 0.301 |
| 4-3310 | 4-3990 | 0.643 | 68.3 | 20.3 | -0.92 | 1.298 | 118.4 | 0.787 | 3.535 | 294.3 | 521.5 | 0.753 | --- | -0.50 | 0.306 | 134.5 | 307.7 | -2.8 | 0.288 |
| 4-3310 | 4-4010 | 0.640 | 68.4 | 20.3 | -0.94 | 1.296 | 118.4 | 0.782 | 3.449 | 294.2 | 523.0 | 0.753 | --- | -0.48 | 0.294 | 132.1 | 306.6 | -2.8 | 0.276 |
| 4-3310 | 4-4030 | 0.638 | 68.5 | 20.3 | -0.95 | 1.293 | 118.3 | 0.777 | 3.377 | 294.0 | 524.4 | 0.753 | --- | -0.47 | 0.282 | 129.7 | 305.5 | -2.9 | 0.266 |
| 4-3310 | 4-4050 | 0.637 | 68.7 | 20.2 | -0.97 | 1.291 | 118.3 | 0.773 | 3.318 | 293.8 | 525.8 | 0.752 | --- | -0.46 | 0.272 | 127.2 | 304.3 | -2.9 | 0.257 |
| 4-3310 | 4-4070 | 0.636 | 68.9 | 20.2 | -0.99 | 1.290 | 118.4 | 0.770 | 3.267 | 293.6 | 527.1 | 0.750 | --- | -0.45 | 0.262 | 124.6 | 303.0 | -3.0 | 0.249 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3310 | 4-4090 | 0.636 | 69.1 | 20.3 | -1.00 | 1.288 | 118.4 | 0.768 | 3.225 | 293.2 | 528.4 | 0.749 | --- | -0.44 | 0.254 | 122.0 | 301.7 | -3.0 | 0.241 |
| 4-3310 | 4-4110 | 0.637 | 69.3 | 20.3 | -1.01 | 1.287 | 118.5 | 0.766 | 3.190 | 292.9 | 529.6 | 0.747 | --- | -0.44 | 0.246 | 119.3 | 300.3 | -3.0 | 0.235 |
| 4-3310 | 4-4130 | 0.639 | 69.6 | 20.3 | -1.03 | 1.285 | 118.7 | 0.765 | 3.161 | 292.5 | 530.8 | 0.744 | --- | -0.43 | 0.239 | 116.6 | 299.0 | -3.1 | 0.230 |
| 4-3310 | 4-4150 | 0.641 | 69.9 | 20.3 | -1.04 | 1.285 | 118.8 | 0.764 | 3.136 | 292.0 | 531.9 | 0.741 | --- | -0.42 | 0.233 | 113.8 | 297.6 | -3.1 | 0.226 |
| 4-3310 | 4-4170 | 0.643 | 70.2 | 20.3 | -1.06 | 1.284 | 119.0 | 0.763 | 3.115 | 291.5 | 533.0 | 0.738 | --- | -0.41 | 0.228 | 111.1 | 296.2 | -3.1 | 0.222 |
| 4-3310 | 4-4190 | 0.646 | 70.5 | 20.4 | -1.07 | 1.283 | 119.2 | 0.763 | 3.099 | 291.0 | 534.0 | 0.734 | --- | -0.41 | 0.223 | 108.3 | 294.9 | -3.2 | 0.219 |
| 4-3310 | 4-4210 | 0.650 | 70.9 | 20.4 | -1.08 | 1.282 | 119.5 | 0.763 | 3.085 | 290.5 | 535.0 | 0.730 | --- | -0.40 | 0.219 | 105.6 | 293.7 | -3.2 | 0.217 |
| 4-3310 | 4-4230 | 0.654 | 71.3 | 20.5 | -1.09 | 1.282 | 119.7 | 0.764 | 3.074 | 289.9 | 535.9 | 0.725 | --- | -0.40 | 0.216 | 102.8 | 292.4 | -3.2 | 0.216 |
| 4-3310 | 4-4250 | 0.658 | 71.7 | 20.5 | -1.10 | 1.282 | 120.0 | 0.765 | 3.065 | 289.2 | 536.9 | 0.721 | --- | -0.39 | 0.213 | 100.1 | 291.3 | -3.2 | 0.215 |
| 4-3310 | 4-4270 | 0.663 | 72.1 | 20.5 | -1.12 | 1.281 | 120.3 | 0.766 | 3.059 | 288.5 | 537.7 | 0.715 | --- | -0.39 | 0.210 | 97.4 | 290.2 | -3.3 | 0.215 |
| 4-3310 | 4-4290 | 0.668 | 72.5 | 20.6 | -1.13 | 1.281 | 120.6 | 0.768 | 3.054 | 287.8 | 538.6 | 0.710 | --- | -0.39 | 0.208 | 94.7 | 289.2 | -3.3 | 0.215 |
| 4-3310 | 4-4310 | 0.674 | 73.0 | 20.7 | -1.14 | 1.281 | 120.9 | 0.769 | 3.052 | 287.1 | 539.4 | 0.704 | --- | -0.38 | 0.207 | 92.1 | 288.3 | -3.3 | 0.215 |
| 4-3310 | 4-4330 | 0.680 | 73.5 | 20.7 | -1.15 | 1.281 | 121.3 | 0.771 | 3.050 | 286.3 | 540.2 | 0.698 | 5.402 | -0.38 | 0.206 | 89.5 | 287.5 | -3.3 | 0.216 |
| 4-3310 | 4-4350 | 0.687 | 74.0 | 20.8 | -1.16 | 1.281 | 121.7 | 0.773 | 3.050 | 285.5 | 540.9 | 0.692 | 5.409 | -0.38 | 0.205 | 86.9 | 286.8 | -3.3 | 0.218 |
| 4-3310 | 4-4370 | 0.693 | 74.5 | 20.8 | -1.17 | 1.281 | 122.1 | 0.776 | 3.051 | 284.7 | 541.6 | 0.685 | 5.418 | -0.37 | 0.205 | 84.5 | 286.2 | -3.3 | 0.220 |
| 4-3310 | 4-4390 | 0.700 | 75.0 | 20.9 | -1.18 | 1.281 | 122.5 | 0.778 | 3.054 | 283.9 | 542.3 | 0.678 | 5.429 | -0.37 | 0.205 | 82.1 | 285.7 | -3.3 | 0.222 |
| 4-3310 | 4-4410 | 0.708 | 75.5 | 21.0 | -1.19 | 1.281 | 122.9 | 0.781 | 3.057 | 283.0 | 542.9 | 0.670 | 5.443 | -0.37 | 0.205 | 79.7 | 285.3 | -3.3 | 0.224 |
| 4-3310 | 4-4430 | 0.715 | 76.0 | 21.0 | -1.20 | 1.281 | 123.4 | 0.783 | 3.061 | 282.1 | 543.6 | 0.663 | 5.459 | -0.37 | 0.205 | 77.5 | 285.0 | -3.3 | 0.226 |
| 4-3310 | 4-4450 | 0.723 | 76.6 | 21.1 | -1.21 | 1.282 | 123.8 | 0.786 | 3.066 | 281.1 | 544.1 | 0.655 | 5.477 | -0.37 | 0.206 | 75.3 | 284.8 | -3.3 | 0.229 |
| 4-3310 | 4-4470 | 0.732 | 77.2 | 21.1 | -1.22 | 1.282 | 124.3 | 0.789 | 3.072 | 280.2 | 544.7 | 0.647 | 5.497 | -0.37 | 0.207 | 73.1 | 284.7 | -3.3 | 0.232 |
| 4-3310 | 4-4490 | 0.740 | 77.7 | 21.2 | -1.23 | 1.282 | 124.8 | 0.793 | 3.078 | 279.2 | 545.2 | 0.638 | 5.518 | -0.36 | 0.208 | 71.0 | 284.7 | -3.3 | 0.235 |
| 4-3310 | 4-4510 | 0.749 | 78.3 | 21.3 | -1.24 | 1.282 | 125.3 | 0.796 | 3.085 | 278.2 | 545.8 | 0.630 | 5.541 | -0.36 | 0.210 | 69.0 | 284.7 | -3.3 | 0.238 |
| 4-3310 | 4-4530 | 0.758 | 78.9 | 21.3 | -1.25 | 1.283 | 125.8 | 0.799 | 3.093 | 277.1 | 546.2 | 0.621 | 5.565 | -0.36 | 0.211 | 67.1 | 284.9 | -3.3 | 0.242 |
| 4-3310 | 4-4550 | 0.768 | 79.5 | 21.4 | -1.26 | 1.283 | 126.4 | 0.803 | 3.101 | 276.1 | 546.7 | 0.611 | 5.590 | -0.36 | 0.213 | 65.2 | 285.1 | -3.2 | 0.245 |
| 4-3310 | 4-4570 | 0.777 | 80.1 | 21.5 | -1.27 | 1.283 | 126.9 | 0.806 | 3.109 | 275.0 | 547.1 | 0.602 | 5.617 | -0.36 | 0.214 | 63.4 | 285.4 | -3.2 | 0.249 |
| 4-3310 | 4-4590 | 0.787 | 80.7 | 21.5 | -1.28 | 1.284 | 127.5 | 0.810 | 3.118 | 273.9 | 547.5 | 0.592 | 5.645 | -0.36 | 0.216 | 61.6 | 285.7 | -3.2 | 0.253 |
| 4-3310 | 4-4610 | 0.797 | 81.3 | 21.6 | -1.29 | 1.284 | 128.0 | 0.814 | 3.128 | 272.8 | 547.9 | 0.582 | 5.674 | -0.37 | 0.218 | 59.9 | 286.2 | -3.2 | 0.257 |
| 4-3310 | 4-4630 | 0.808 | 82.0 | 21.6 | -1.30 | 1.285 | 128.6 | 0.818 | 3.138 | 271.6 | 548.3 | 0.572 | 5.704 | -0.37 | 0.220 | 58.2 | 286.6 | -3.2 | 0.261 |
| 4-3310 | 4-4650 | 0.818 | 82.6 | 21.7 | -1.31 | 1.285 | 129.2 | 0.822 | 3.148 | 270.4 | 548.6 | 0.561 | 5.734 | -0.37 | 0.222 | 56.6 | 287.2 | -3.2 | 0.265 |
| 4-3310 | 4-4670 | 0.829 | 83.2 | 21.7 | -1.32 | 1.285 | 129.9 | 0.826 | 3.158 | 269.3 | 549.0 | 0.550 | 5.766 | -0.37 | 0.224 | 55.1 | 287.8 | -3.2 | 0.269 |
| 4-3310 | 4-4690 | 0.840 | 83.9 | 21.8 | -1.33 | 1.286 | 130.5 | 0.830 | 3.169 | 268.0 | 549.3 | 0.539 | 5.799 | -0.37 | 0.227 | 53.6 | 288.4 | -3.2 | 0.273 |
| 4-3310 | 4-4710 | 0.852 | 84.5 | 21.8 | -1.34 | 1.286 | 131.1 | 0.834 | 3.180 | 266.8 | 549.5 | 0.528 | 5.832 | -0.37 | 0.229 | 52.1 | 289.2 | -3.1 | 0.277 |
| 4-3310 | 4-4730 | 0.863 | 85.2 | 21.9 | -1.35 | 1.287 | 131.8 | 0.838 | 3.191 | 265.6 | 549.8 | 0.517 | 5.866 | -0.38 | 0.231 | 50.7 | 289.9 | -3.1 | 0.281 |
| 4-3310 | 4-4750 | 0.875 | 85.9 | 21.9 | -1.36 | 1.287 | 132.5 | 0.842 | 3.203 | 264.3 | 550.0 | 0.505 | 5.901 | -0.38 | 0.233 | 49.3 | 290.7 | -3.1 | 0.286 |
| 4-3310 | 4-4770 | 0.887 | 86.5 | 22.0 | -1.37 | 1.288 | 133.1 | 0.847 | 3.215 | 263.0 | 550.3 | 0.493 | 5.936 | -0.38 | 0.236 | 47.9 | 291.6 | -3.1 | 0.290 |
| 4-3310 | 4-4790 | 0.899 | 87.2 | 22.0 | -1.38 | 1.288 | 133.8 | 0.851 | 3.227 | 261.7 | 550.5 | 0.481 | 5.972 | -0.38 | 0.238 | 46.6 | 292.5 | -3.1 | 0.295 |
| 4-3310 | 4-4810 | 0.912 | 87.9 | 22.0 | -1.39 | 1.288 | 134.5 | 0.855 | 3.239 | 260.3 | 550.6 | 0.469 | 6.008 | -0.39 | 0.241 | 45.3 | 293.4 | -3.0 | 0.299 |
| 4-3310 | 4-4830 | 0.924 | 88.6 | 22.1 | -1.40 | 1.289 | 135.3 | 0.860 | 3.251 | 259.0 | 550.8 | 0.457 | 6.046 | -0.39 | 0.243 | 44.0 | 294.3 | -3.0 | 0.304 |
| 4-3310 | 4-4850 | 0.937 | 89.3 | 22.1 | -1.41 | 1.289 | 136.0 | 0.864 | 3.264 | 257.6 | 550.9 | 0.444 | 6.083 | -0.40 | 0.246 | 42.8 | 295.4 | -3.0 | 0.308 |
| 4-3310 | 4-4870 | 0.950 | 90.0 | 22.1 | -1.42 | 1.290 | 136.8 | 0.868 | 3.276 | 256.2 | 551.1 | 0.431 | 6.121 | -0.40 | 0.248 | 41.6 | 296.4 | -3.0 | 0.313 |
| 4-3310 | 4-4890 | 0.964 | 90.7 | 22.1 | -1.43 | 1.290 | 137.5 | 0.873 | 3.289 | 254.8 | 551.2 | 0.418 | 6.160 | -0.41 | 0.250 | 40.4 | 297.5 | -2.9 | 0.317 |
| 4-3310 | 4-4910 | 0.977 | 91.4 | 22.2 | -1.45 | 1.291 | 138.3 | 0.877 | 3.302 | 253.4 | 551.2 | 0.405 | 6.199 | -0.41 | 0.253 | 39.2 | 298.6 | -2.9 | 0.322 |
| 4-3320 | 4-3720 | 0.799 | 76.4 | 21.7 | -0.76 | 1.427 | 122.4 | 1.05 | 114.414 | 296.9 | 492.7 | 0.731 | --- | -0.55 | 0.673 | 159.6 | 314.5 | -2.4 | 0.642 |
| 4-3320 | 4-3740 | 0.767 | 75.9 | 21.5 | -0.82 | 1.407 | 121.4 | 1.01 | 076.381 | 297.6 | 495.0 | 0.742 | --- | -0.50 | 0.629 | 158.2 | 314.7 | -2.4 | 0.598 |
| 4-3320 | 4-3760 | 0.739 | 75.5 | 21.4 | -0.86 | 1.390 | 120.4 | 0.97 | 429.007 | 298.2 | 497.3 | 0.752 | --- | -0.46 | 0.590 | 156.7 | 314.9 | -2.4 | 0.559 |
| 4-3320 | 4-3780 | 0.714 | 75.1 | 21.2 | -0.90 | 1.376 | 119.6 | 0.94 | 313.342 | 298.8 | 499.6 | 0.761 | --- | -0.43 | 0.554 | 155.2 | 315.0 | -2.4 | 0.523 |
| 4-3320 | 4-3800 | 0.693 | 74.7 | 21.1 | -0.93 | 1.363 | 118.8 | 0.916 | 9.131 | 299.4 | 501.7 | 0.769 | --- | -0.40 | 0.521 | 153.6 | 315.0 | -2.4 | 0.490 |
| 4-3320 | 4-3820 | 0.674 | 74.4 | 21.0 | -0.96 | 1.352 | 118.2 | 0.892 | 7.185 | 299.9 | 503.9 | 0.776 | --- | -0.37 | 0.492 | 152.0 | 314.9 | -2.4 | 0.461 |
| 4-3320 | 4-3840 | 0.658 | 74.1 | 20.8 | -0.98 | 1.343 | 117.6 | 0.871 | 6.072 | 300.3 | 505.9 | 0.782 | --- | -0.35 | 0.464 | 150.3 | 314.7 | -2.4 | 0.434 |
| 4-3320 | 4-3860 | 0.643 | 73.8 | 20.7 | -1.00 | 1.334 | 117.1 | 0.853 | 5.356 | 300.7 | 507.9 | 0.788 | --- | -0.33 | 0.440 | 148.5 | 314.5 | -2.4 | 0.409 |
| 4-3320 | 4-3880 | 0.631 | 73.6 | 20.7 | -1.02 | 1.327 | 116.6 | 0.837 | 4.860 | 301.0 | 509.9 | 0.792 | --- | -0.31 | 0.417 | 146.7 | 314.1 | -2.4 | 0.386 |
| 4-3320 | 4-3900 | 0.620 | 73.4 | 20.6 | -1.04 | 1.321 | 116.2 | 0.823 | 4.498 | 301.3 | 511.8 | 0.796 | --- | -0.30 | 0.396 | 144.8 | 313.7 | -2.4 | 0.365 |
| 4-3320 | 4-3920 | 0.611 | 73.3 | 20.5 | -1.06 | 1.316 | 115.9 | 0.811 | 4.225 | 301.5 | 513.6 | 0.799 | --- | -0.28 | 0.376 | 142.8 | 313.2 | -2.4 | 0.346 |
| 4-3320 | 4-3940 | 0.603 | 73.2 | 20.4 | -1.07 | 1.311 | 115.6 | 0.800 | 4.013 | 301.7 | 515.3 | 0.802 | --- | -0.27 | 0.359 | 140.7 | 312.5 | -2.4 | 0.329 |
| 4-3320 | 4-3960 | 0.597 | 73.1 | 20.4 | -1.08 | 1.307 | 115.4 | 0.791 | 3.845 | 301.8 | 517.0 | 0.804 | --- | -0.26 | 0.343 | 138.6 | 311.8 | -2.5 | 0.313 |
| 4-3320 | 4-3980 | 0.591 | 73.1 | 20.3 | -1.10 | 1.303 | 115.2 | 0.783 | 3.710 | 301.8 | 518.7 | 0.805 | --- | -0.25 | 0.328 | 136.4 | 311.0 | -2.5 | 0.299 |
| 4-3320 | 4-4000 | 0.587 | 73.1 | 20.3 | -1.11 | 1.300 | 115.1 | 0.776 | 3.600 | 301.8 | 520.3 | 0.806 | --- | -0.24 | 0.314 | 134.2 | 310.1 | -2.5 | 0.286 |
| 4-3320 | 4-4020 | 0.584 | 73.2 | 20.3 | -1.12 | 1.297 | 115.0 | 0.770 | 3.509 | 301.7 | 521.8 | 0.807 | --- | -0.23 | 0.302 | 131.9 | 309.1 | -2.6 | 0.274 |
| 4-3320 | 4-4040 | 0.581 | 73.3 | 20.3 | -1.13 | 1.295 | 114.9 | 0.765 | 3.433 | 301.6 | 523.3 | 0.807 | --- | -0.23 | 0.290 | 129.5 | 308.0 | -2.6 | 0.263 |
| 4-3320 | 4-4060 | 0.579 | 73.4 | 20.3 | -1.14 | 1.293 | 114.9 | 0.761 | 3.370 | 301.4 | 524.7 | 0.806 | --- | -0.22 | 0.280 | 127.1 | 306.8 | -2.6 | 0.254 |
| 4-3320 | 4-4080 | 0.578 | 73.6 | 20.3 | -1.14 | 1.291 | 114.9 | 0.757 | 3.318 | 301.2 | 526.0 | 0.806 | --- | -0.21 | 0.271 | 124.6 | 305.6 | -2.7 | 0.245 |
| 4-3320 | 4-4100 | 0.578 | 73.8 | 20.3 | -1.15 | 1.289 | 115.0 | 0.754 | 3.273 | 301.0 | 527.3 | 0.804 | --- | -0.21 | 0.262 | 122.1 | 304.3 | -2.7 | 0.238 |
| 4-3320 | 4-4120 | 0.578 | 74.0 | 20.3 | -1.16 | 1.288 | 115.1 | 0.752 | 3.236 | 300.6 | 528.6 | 0.803 | --- | -0.20 | 0.255 | 119.5 | 303.0 | -2.8 | 0.231 |
| 4-3320 | 4-4140 | 0.579 | 74.3 | 20.3 | -1.17 | 1.287 | 115.2 | 0.750 | 3.204 | 300.3 | 529.8 | 0.801 | --- | -0.20 | 0.248 | 116.9 | 301.7 | -2.8 | 0.226 |
| 4-3320 | 4-4160 | 0.581 | 74.5 | 20.3 | -1.17 | 1.286 | 115.3 | 0.749 | 3.178 | 299.9 | 531.0 | 0.798 | --- | -0.19 | 0.242 | 114.3 | 300.3 | -2.8 | 0.221 |
| 4-3320 | 4-4180 | 0.583 | 74.9 | 20.4 | -1.18 | 1.285 | 115.5 | 0.748 | 3.156 | 299.4 | 532.1 | 0.795 | --- | -0.19 | 0.236 | 111.7 | 299.0 | -2.9 | 0.217 |
| 4-3320 | 4-4200 | 0.585 | 75.2 | 20.4 | -1.19 | 1.284 | 115.7 | 0.748 | 3.138 | 299.0 | 533.2 | 0.792 | --- | -0.19 | 0.232 | 109.0 | 297.6 | -2.9 | 0.214 |
| 4-3320 | 4-4220 | 0.588 | 75.6 | 20.4 | -1.19 | 1.283 | 115.9 | 0.747 | 3.123 | 298.4 | 534.2 | 0.789 | --- | -0.18 | 0.228 | 106.4 | 296.3 | -2.9 | 0.211 |
| 4-3320 | 4-4240 | 0.592 | 76.0 | 20.5 | -1.20 | 1.283 | 116.1 | 0.748 | 3.111 | 297.9 | 535.2 | 0.785 | --- | -0.18 | 0.224 | 103.8 | 295.1 | -3.0 | 0.209 |
| 4-3320 | 4-4260 | 0.596 | 76.4 | 20.5 | -1.21 | 1.283 | 116.3 | 0.748 | 3.102 | 297.3 | 536.2 | 0.781 | --- | -0.18 | 0.221 | 101.2 | 293.9 | -3.0 | 0.208 |
| 4-3320 | 4-4280 | 0.600 | 76.8 | 20.6 | -1.21 | 1.282 | 116.6 | 0.749 | 3.094 | 296.7 | 537.1 | 0.777 | --- | -0.17 | 0.219 | 98.6 | 292.8 | -3.0 | 0.207 |
| 4-3320 | 4-4300 | 0.605 | 77.3 | 20.6 | -1.22 | 1.282 | 116.9 | 0.750 | 3.089 | 296.0 | 538.0 | 0.772 | --- | -0.17 | 0.217 | 96.1 | 291.7 | -3.0 | 0.207 |
| 4-3320 | 4-4320 | 0.610 | 77.8 | 20.7 | -1.22 | 1.282 | 117.2 | 0.751 | 3.085 | 295.3 | 538.8 | 0.767 | --- | -0.17 | 0.215 | 93.6 | 290.8 | -3.0 | 0.207 |
| 4-3320 | 4-4340 | 0.615 | 78.3 | 20.7 | -1.23 | 1.282 | 117.5 | 0.753 | 3.083 | 294.6 | 539.6 | 0.762 | --- | -0.17 | 0.214 | 91.1 | 289.9 | -3.1 | 0.208 |
| 4-3320 | 4-4360 | 0.621 | 78.8 | 20.8 | -1.23 | 1.282 | 117.9 | 0.755 | 3.082 | 293.8 | 540.4 | 0.756 | 5.409 | -0.16 | 0.213 | 88.7 | 289.1 | -3.1 | 0.209 |
| 4-3320 | 4-4380 | 0.627 | 79.3 | 20.8 | -1.24 | 1.282 | 118.2 | 0.757 | 3.083 | 293.0 | 541.2 | 0.750 | 5.416 | -0.16 | 0.212 | 86.4 | 288.4 | -3.1 | 0.210 |
| 4-3320 | 4-4400 | 0.633 | 79.8 | 20.9 | -1.24 | 1.282 | 118.6 | 0.759 | 3.085 | 292.2 | 541.9 | 0.744 | 5.425 | -0.16 | 0.212 | 84.1 | 287.9 | -3.1 | 0.212 |
| 4-3320 | 4-4420 | 0.640 | 80.4 | 21.0 | -1.25 | 1.282 | 119.0 | 0.761 | 3.087 | 291.4 | 542.6 | 0.737 | 5.437 | -0.16 | 0.212 | 81.9 | 287.4 | -3.1 | 0.214 |
| 4-3320 | 4-4440 | 0.647 | 81.0 | 21.0 | -1.25 | 1.282 | 119.4 | 0.764 | 3.091 | 290.5 | 543.2 | 0.731 | 5.451 | -0.16 | 0.213 | 79.7 | 287.0 | -3.1 | 0.216 |
| 4-3320 | 4-4460 | 0.654 | 81.5 | 21.1 | -1.25 | 1.282 | 119.9 | 0.766 | 3.095 | 289.6 | 543.9 | 0.724 | 5.467 | -0.16 | 0.213 | 77.6 | 286.7 | -3.1 | 0.219 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3320 | 4-4480 | 0.662 | 82.1 | 21.1 | -1.26 | 1.283 | 120.3 | 0.769 | 3.101 | 288.7 | 544.5 | 0.716 | 5.485 | -0.16 | 0.214 | 75.6 | 286.5 | -3.1 | 0.221 |
| 4-3320 | 4-4500 | 0.669 | 82.7 | 21.2 | -1.26 | 1.283 | 120.7 | 0.772 | 3.107 | 287.8 | 545.1 | 0.709 | 5.504 | -0.15 | 0.215 | 73.6 | 286.4 | -3.1 | 0.224 |
| 4-3320 | 4-4520 | 0.678 | 83.3 | 21.2 | -1.27 | 1.283 | 121.2 | 0.775 | 3.113 | 286.8 | 545.6 | 0.701 | 5.525 | -0.15 | 0.216 | 71.7 | 286.4 | -3.1 | 0.227 |
| 4-3320 | 4-4540 | 0.686 | 83.9 | 21.3 | -1.27 | 1.283 | 121.7 | 0.778 | 3.120 | 285.8 | 546.1 | 0.693 | 5.547 | -0.15 | 0.217 | 69.8 | 286.4 | -3.1 | 0.230 |
| 4-3320 | 4-4560 | 0.695 | 84.6 | 21.4 | -1.28 | 1.284 | 122.2 | 0.781 | 3.128 | 284.8 | 546.6 | 0.685 | 5.571 | -0.15 | 0.219 | 68.0 | 286.6 | -3.1 | 0.233 |
| 4-3320 | 4-4580 | 0.703 | 85.2 | 21.4 | -1.28 | 1.284 | 122.7 | 0.784 | 3.136 | 283.8 | 547.1 | 0.676 | 5.596 | -0.15 | 0.220 | 66.3 | 286.8 | -3.1 | 0.237 |
| 4-3320 | 4-4600 | 0.712 | 85.8 | 21.5 | -1.28 | 1.284 | 123.2 | 0.788 | 3.145 | 282.7 | 547.6 | 0.667 | 5.622 | -0.15 | 0.222 | 64.6 | 287.1 | -3.1 | 0.240 |
| 4-3320 | 4-4620 | 0.722 | 86.5 | 21.5 | -1.29 | 1.285 | 123.8 | 0.791 | 3.154 | 281.6 | 548.0 | 0.658 | 5.649 | -0.15 | 0.224 | 63.0 | 287.4 | -3.1 | 0.244 |
| 4-3320 | 4-4640 | 0.731 | 87.1 | 21.5 | -1.29 | 1.285 | 124.3 | 0.795 | 3.163 | 280.5 | 548.4 | 0.649 | 5.677 | -0.15 | 0.226 | 61.4 | 287.8 | -3.0 | 0.247 |
| 4-3320 | 4-4660 | 0.741 | 87.8 | 21.6 | -1.30 | 1.285 | 124.9 | 0.799 | 3.173 | 279.4 | 548.8 | 0.639 | 5.706 | -0.15 | 0.228 | 59.8 | 288.3 | -3.0 | 0.251 |
| 4-3320 | 4-4680 | 0.751 | 88.4 | 21.6 | -1.30 | 1.286 | 125.4 | 0.802 | 3.183 | 278.3 | 549.2 | 0.629 | 5.736 | -0.15 | 0.230 | 58.3 | 288.9 | -3.0 | 0.255 |
| 4-3320 | 4-4700 | 0.762 | 89.1 | 21.7 | -1.30 | 1.286 | 126.0 | 0.806 | 3.193 | 277.1 | 549.6 | 0.619 | 5.767 | -0.15 | 0.232 | 56.9 | 289.5 | -3.0 | 0.259 |
| 4-3320 | 4-4720 | 0.772 | 89.8 | 21.7 | -1.31 | 1.287 | 126.6 | 0.810 | 3.204 | 275.9 | 549.9 | 0.609 | 5.799 | -0.15 | 0.234 | 55.4 | 290.1 | -3.0 | 0.263 |
| 4-3320 | 4-4740 | 0.783 | 90.5 | 21.7 | -1.31 | 1.287 | 127.2 | 0.814 | 3.215 | 274.7 | 550.2 | 0.598 | 5.831 | -0.15 | 0.236 | 54.1 | 290.8 | -3.0 | 0.267 |
| 4-3320 | 4-4760 | 0.794 | 91.2 | 21.8 | -1.32 | 1.287 | 127.9 | 0.818 | 3.226 | 273.5 | 550.5 | 0.587 | 5.864 | -0.15 | 0.238 | 52.7 | 291.5 | -3.0 | 0.271 |
| 4-3320 | 4-4780 | 0.805 | 91.8 | 21.8 | -1.32 | 1.288 | 128.5 | 0.822 | 3.237 | 272.3 | 550.8 | 0.576 | 5.898 | -0.15 | 0.240 | 51.4 | 292.3 | -2.9 | 0.275 |
| 4-3320 | 4-4800 | 0.816 | 92.5 | 21.8 | -1.32 | 1.288 | 129.1 | 0.826 | 3.249 | 271.0 | 551.0 | 0.565 | 5.933 | -0.15 | 0.243 | 50.1 | 293.2 | -2.9 | 0.279 |
| 4-3320 | 4-4820 | 0.828 | 93.2 | 21.8 | -1.33 | 1.289 | 129.8 | 0.830 | 3.260 | 269.7 | 551.3 | 0.553 | 5.968 | -0.15 | 0.245 | 48.9 | 294.0 | -2.9 | 0.283 |
| 4-3320 | 4-4840 | 0.840 | 93.9 | 21.8 | -1.33 | 1.289 | 130.5 | 0.834 | 3.272 | 268.4 | 551.5 | 0.542 | 6.003 | -0.15 | 0.247 | 47.7 | 294.9 | -2.9 | 0.287 |
| 4-3320 | 4-4860 | 0.852 | 94.6 | 21.9 | -1.34 | 1.290 | 131.2 | 0.839 | 3.285 | 267.1 | 551.7 | 0.530 | 6.040 | -0.16 | 0.250 | 46.5 | 295.9 | -2.9 | 0.292 |
| 4-3320 | 4-4880 | 0.864 | 95.3 | 21.9 | -1.34 | 1.290 | 131.9 | 0.843 | 3.297 | 265.8 | 551.8 | 0.518 | 6.076 | -0.16 | 0.252 | 45.3 | 296.9 | -2.8 | 0.296 |
| 4-3320 | 4-4900 | 0.877 | 96.1 | 21.9 | -1.34 | 1.290 | 132.6 | 0.847 | 3.309 | 264.4 | 552.0 | 0.505 | 6.114 | -0.16 | 0.254 | 44.2 | 297.9 | -2.8 | 0.300 |
| 4-3320 | 4-4920 | 0.889 | 96.8 | 21.9 | -1.35 | 1.291 | 133.3 | 0.852 | 3.322 | 263.1 | 552.1 | 0.493 | 6.151 | -0.16 | 0.257 | 43.1 | 298.9 | -2.8 | 0.305 |
| 4-3330 | 4-3730 | 0.743 | 81.5 | 20.1 | -1.84 | 1.429 | 119.0 | 1.05813 | .503 | 303.7 | 490.8 | 0.784 | --- | 0.54 | 0.676 | 158.9 | 316.1 | -1.9 | 0.640 |
| 4-3330 | 4-3750 | 0.711 | 80.9 | 20.1 | -1.73 | 1.409 | 118.0 | 1.01456 | .127 | 304.5 | 493.2 | 0.794 | --- | 0.44 | 0.633 | 157.5 | 316.3 | -1.9 | 0.596 |
| 4-3330 | 4-3770 | 0.684 | 80.4 | 20.1 | -1.66 | 1.392 | 117.1 | 0.97633 | .629 | 305.2 | 495.5 | 0.804 | --- | 0.37 | 0.594 | 156.1 | 316.5 | -2.0 | 0.557 |
| 4-3330 | 4-3790 | 0.659 | 79.9 | 20.1 | -1.61 | 1.377 | 116.2 | 0.94314 | .242 | 305.8 | 497.8 | 0.812 | --- | 0.32 | 0.558 | 154.6 | 316.6 | -2.0 | 0.521 |
| 4-3330 | 4-3810 | 0.638 | 79.4 | 20.0 | -1.58 | 1.365 | 115.5 | 0.914 | 9.542 | 306.4 | 500.1 | 0.820 | --- | 0.28 | 0.526 | 153.0 | 316.6 | -2.0 | 0.488 |
| 4-3330 | 4-3830 | 0.619 | 79.0 | 20.0 | -1.55 | 1.354 | 114.8 | 0.889 | 7.436 | 307.0 | 502.3 | 0.826 | --- | 0.25 | 0.496 | 151.4 | 316.6 | -2.0 | 0.459 |
| 4-3330 | 4-3850 | 0.603 | 78.6 | 19.9 | -1.52 | 1.344 | 114.2 | 0.867 | 6.249 | 307.5 | 504.4 | 0.832 | --- | 0.23 | 0.469 | 149.7 | 316.5 | -2.0 | 0.432 |
| 4-3330 | 4-3870 | 0.589 | 78.2 | 19.9 | -1.50 | 1.336 | 113.7 | 0.848 | 5.491 | 308.0 | 506.5 | 0.837 | --- | 0.21 | 0.444 | 147.9 | 316.2 | -2.0 | 0.407 |
| 4-3330 | 4-3890 | 0.577 | 77.9 | 19.8 | -1.48 | 1.329 | 113.3 | 0.831 | 4.970 | 308.3 | 508.5 | 0.842 | --- | 0.19 | 0.422 | 146.1 | 315.9 | -2.0 | 0.384 |
| 4-3330 | 4-3910 | 0.566 | 77.7 | 19.8 | -1.47 | 1.323 | 112.9 | 0.816 | 4.591 | 308.7 | 510.4 | 0.845 | --- | 0.18 | 0.401 | 144.2 | 315.5 | -2.0 | 0.363 |
| 4-3330 | 4-3930 | 0.557 | 77.5 | 19.7 | -1.46 | 1.317 | 112.5 | 0.803 | 4.306 | 308.9 | 512.3 | 0.848 | --- | 0.17 | 0.382 | 142.3 | 315.1 | -2.1 | 0.344 |
| 4-3330 | 4-3950 | 0.549 | 77.3 | 19.7 | -1.45 | 1.312 | 112.3 | 0.792 | 4.085 | 309.1 | 514.1 | 0.851 | --- | 0.16 | 0.365 | 140.2 | 314.5 | -2.1 | 0.327 |
| 4-3330 | 4-3970 | 0.542 | 77.2 | 19.7 | -1.44 | 1.308 | 112.0 | 0.782 | 3.910 | 309.3 | 515.8 | 0.853 | --- | 0.15 | 0.349 | 138.2 | 313.8 | -2.1 | 0.311 |
| 4-3330 | 4-3990 | 0.537 | 77.1 | 19.7 | -1.43 | 1.305 | 111.9 | 0.773 | 3.770 | 309.4 | 517.5 | 0.855 | --- | 0.14 | 0.334 | 136.0 | 313.0 | -2.1 | 0.296 |
| 4-3330 | 4-4010 | 0.532 | 77.1 | 19.7 | -1.42 | 1.301 | 111.7 | 0.766 | 3.655 | 309.4 | 519.1 | 0.856 | --- | 0.13 | 0.320 | 133.8 | 312.2 | -2.2 | 0.283 |
| 4-3330 | 4-4030 | 0.529 | 77.1 | 19.7 | -1.41 | 1.299 | 111.6 | 0.759 | 3.560 | 309.4 | 520.7 | 0.856 | --- | 0.13 | 0.308 | 131.5 | 311.2 | -2.2 | 0.271 |
| 4-3330 | 4-4050 | 0.526 | 77.2 | 19.7 | -1.41 | 1.296 | 111.5 | 0.754 | 3.482 | 309.3 | 522.2 | 0.857 | --- | 0.12 | 0.297 | 129.2 | 310.2 | -2.2 | 0.260 |
| 4-3330 | 4-4070 | 0.524 | 77.3 | 19.7 | -1.40 | 1.294 | 111.5 | 0.749 | 3.416 | 309.2 | 523.7 | 0.856 | --- | 0.12 | 0.287 | 126.9 | 309.1 | -2.3 | 0.251 |
| 4-3330 | 4-4090 | 0.522 | 77.5 | 19.7 | -1.39 | 1.292 | 111.5 | 0.745 | 3.362 | 309.0 | 525.1 | 0.856 | --- | 0.11 | 0.278 | 124.5 | 307.9 | -2.3 | 0.242 |
| 4-3330 | 4-4110 | 0.522 | 77.7 | 19.8 | -1.39 | 1.291 | 111.5 | 0.742 | 3.315 | 308.8 | 526.4 | 0.855 | --- | 0.11 | 0.269 | 122.0 | 306.7 | -2.4 | 0.234 |
| 4-3330 | 4-4130 | 0.522 | 77.9 | 19.8 | -1.38 | 1.289 | 111.6 | 0.739 | 3.276 | 308.5 | 527.7 | 0.854 | --- | 0.10 | 0.262 | 119.5 | 305.4 | -2.4 | 0.228 |
| 4-3330 | 4-4150 | 0.522 | 78.2 | 19.8 | -1.38 | 1.288 | 111.7 | 0.737 | 3.244 | 308.2 | 529.0 | 0.852 | --- | 0.10 | 0.255 | 117.0 | 304.1 | -2.4 | 0.222 |
| 4-3330 | 4-4170 | 0.523 | 78.5 | 19.9 | -1.38 | 1.287 | 111.8 | 0.736 | 3.216 | 307.8 | 530.2 | 0.850 | --- | 0.10 | 0.249 | 114.5 | 302.7 | -2.5 | 0.217 |
| 4-3330 | 4-4190 | 0.525 | 78.8 | 19.9 | -1.37 | 1.286 | 112.0 | 0.734 | 3.193 | 307.4 | 531.3 | 0.848 | --- | 0.10 | 0.244 | 112.0 | 301.4 | -2.5 | 0.212 |
| 4-3330 | 4-4210 | 0.527 | 79.2 | 20.0 | -1.37 | 1.285 | 112.1 | 0.734 | 3.174 | 307.0 | 532.4 | 0.845 | --- | 0.09 | 0.239 | 109.5 | 300.1 | -2.6 | 0.209 |
| 4-3330 | 4-4230 | 0.530 | 79.6 | 20.0 | -1.37 | 1.285 | 112.3 | 0.733 | 3.158 | 306.5 | 533.5 | 0.842 | --- | 0.09 | 0.235 | 107.0 | 298.7 | -2.6 | 0.206 |
| 4-3330 | 4-4250 | 0.533 | 80.0 | 20.1 | -1.36 | 1.284 | 112.5 | 0.733 | 3.145 | 306.0 | 534.5 | 0.839 | --- | 0.09 | 0.231 | 104.5 | 297.5 | -2.6 | 0.204 |
| 4-3330 | 4-4270 | 0.536 | 80.4 | 20.1 | -1.36 | 1.284 | 112.8 | 0.733 | 3.135 | 305.4 | 535.5 | 0.836 | --- | 0.09 | 0.228 | 102.0 | 296.3 | -2.7 | 0.202 |
| 4-3330 | 4-4290 | 0.540 | 80.9 | 20.2 | -1.36 | 1.283 | 113.0 | 0.734 | 3.127 | 304.8 | 536.5 | 0.832 | --- | 0.08 | 0.226 | 99.5 | 295.1 | -2.7 | 0.201 |
| 4-3330 | 4-4310 | 0.544 | 81.4 | 20.3 | -1.35 | 1.283 | 113.3 | 0.735 | 3.121 | 304.2 | 537.4 | 0.828 | --- | 0.08 | 0.224 | 97.1 | 294.0 | -2.7 | 0.201 |
| 4-3330 | 4-4330 | 0.548 | 81.9 | 20.3 | -1.35 | 1.283 | 113.6 | 0.736 | 3.116 | 303.5 | 538.3 | 0.824 | --- | 0.08 | 0.222 | 94.7 | 293.0 | -2.7 | 0.200 |
| 4-3330 | 4-4350 | 0.553 | 82.4 | 20.4 | -1.35 | 1.283 | 113.9 | 0.737 | 3.114 | 302.9 | 539.1 | 0.819 | --- | 0.08 | 0.221 | 92.4 | 292.1 | -2.8 | 0.201 |
| 4-3330 | 4-4370 | 0.558 | 83.0 | 20.5 | -1.35 | 1.283 | 114.2 | 0.738 | 3.113 | 302.1 | 540.0 | 0.815 | --- | 0.08 | 0.220 | 90.1 | 291.3 | -2.8 | 0.201 |
| 4-3330 | 4-4390 | 0.563 | 83.5 | 20.5 | -1.34 | 1.283 | 114.5 | 0.740 | 3.113 | 301.4 | 540.7 | 0.810 | 5.416 | 0.08 | 0.219 | 87.9 | 290.5 | -2.8 | 0.202 |
| 4-3330 | 4-4410 | 0.569 | 84.1 | 20.6 | -1.34 | 1.283 | 114.9 | 0.742 | 3.114 | 300.6 | 541.5 | 0.804 | 5.423 | 0.08 | 0.219 | 85.7 | 289.9 | -2.8 | 0.204 |
| 4-3330 | 4-4430 | 0.575 | 84.7 | 20.7 | -1.34 | 1.283 | 115.2 | 0.744 | 3.116 | 299.8 | 542.2 | 0.799 | 5.434 | 0.07 | 0.219 | 83.6 | 289.3 | -2.8 | 0.205 |
| 4-3330 | 4-4450 | 0.582 | 85.3 | 20.7 | -1.34 | 1.283 | 115.6 | 0.746 | 3.119 | 299.0 | 542.9 | 0.793 | 5.446 | 0.07 | 0.219 | 81.5 | 288.9 | -2.8 | 0.207 |
| 4-3330 | 4-4470 | 0.588 | 85.9 | 20.8 | -1.33 | 1.283 | 116.0 | 0.748 | 3.123 | 298.1 | 543.6 | 0.787 | 5.460 | 0.07 | 0.220 | 79.5 | 288.5 | -2.8 | 0.209 |
| 4-3330 | 4-4490 | 0.595 | 86.5 | 20.8 | -1.33 | 1.284 | 116.4 | 0.751 | 3.128 | 297.2 | 544.2 | 0.780 | 5.476 | 0.07 | 0.220 | 77.6 | 288.3 | -2.8 | 0.212 |
| 4-3330 | 4-4510 | 0.602 | 87.2 | 20.9 | -1.33 | 1.284 | 116.8 | 0.753 | 3.134 | 296.3 | 544.9 | 0.774 | 5.494 | 0.07 | 0.221 | 75.7 | 288.1 | -2.8 | 0.214 |
| 4-3330 | 4-4530 | 0.609 | 87.8 | 20.9 | -1.33 | 1.284 | 117.3 | 0.756 | 3.140 | 295.4 | 545.4 | 0.767 | 5.513 | 0.07 | 0.222 | 73.9 | 288.0 | -2.8 | 0.217 |
| 4-3330 | 4-4550 | 0.617 | 88.5 | 21.0 | -1.33 | 1.284 | 117.7 | 0.759 | 3.147 | 294.5 | 546.0 | 0.760 | 5.533 | 0.07 | 0.223 | 72.1 | 288.0 | -2.9 | 0.220 |
| 4-3330 | 4-4570 | 0.625 | 89.1 | 21.0 | -1.32 | 1.285 | 118.2 | 0.761 | 3.154 | 293.5 | 546.6 | 0.752 | 5.555 | 0.07 | 0.225 | 70.3 | 288.1 | -2.9 | 0.223 |
| 4-3330 | 4-4590 | 0.633 | 89.8 | 21.1 | -1.32 | 1.285 | 118.7 | 0.764 | 3.162 | 292.5 | 547.1 | 0.745 | 5.579 | 0.07 | 0.226 | 68.7 | 288.2 | -2.8 | 0.226 |
| 4-3330 | 4-4610 | 0.641 | 90.5 | 21.1 | -1.32 | 1.285 | 119.1 | 0.768 | 3.170 | 291.5 | 547.6 | 0.737 | 5.603 | 0.07 | 0.228 | 67.1 | 288.4 | -2.8 | 0.229 |
| 4-3330 | 4-4630 | 0.650 | 91.2 | 21.2 | -1.32 | 1.286 | 119.6 | 0.771 | 3.179 | 290.4 | 548.1 | 0.729 | 5.628 | 0.07 | 0.229 | 65.5 | 288.7 | -2.8 | 0.232 |
| 4-3330 | 4-4650 | 0.659 | 91.9 | 21.2 | -1.32 | 1.286 | 120.2 | 0.774 | 3.188 | 289.4 | 548.5 | 0.720 | 5.655 | 0.07 | 0.231 | 64.0 | 289.1 | -2.8 | 0.236 |
| 4-3330 | 4-4670 | 0.668 | 92.5 | 21.2 | -1.31 | 1.286 | 120.7 | 0.777 | 3.197 | 288.3 | 549.0 | 0.712 | 5.682 | 0.07 | 0.233 | 62.5 | 289.5 | -2.8 | 0.239 |
| 4-3330 | 4-4690 | 0.677 | 93.2 | 21.3 | -1.31 | 1.287 | 121.2 | 0.781 | 3.207 | 287.2 | 549.4 | 0.703 | 5.711 | 0.07 | 0.235 | 61.0 | 290.0 | -2.8 | 0.243 |
| 4-3330 | 4-4710 | 0.687 | 94.0 | 21.3 | -1.31 | 1.287 | 121.8 | 0.784 | 3.217 | 286.1 | 549.8 | 0.694 | 5.740 | 0.07 | 0.236 | 59.6 | 290.5 | -2.8 | 0.246 |
| 4-3330 | 4-4730 | 0.696 | 94.7 | 21.3 | -1.31 | 1.287 | 122.3 | 0.788 | 3.227 | 285.0 | 550.1 | 0.684 | 5.770 | 0.07 | 0.238 | 58.3 | 291.1 | -2.8 | 0.250 |
| 4-3330 | 4-4750 | 0.706 | 95.4 | 21.3 | -1.31 | 1.288 | 122.9 | 0.792 | 3.238 | 283.8 | 550.5 | 0.675 | 5.801 | 0.07 | 0.241 | 56.9 | 291.7 | -2.8 | 0.254 |
| 4-3330 | 4-4770 | 0.716 | 96.1 | 21.4 | -1.31 | 1.288 | 123.5 | 0.795 | 3.249 | 282.6 | 550.8 | 0.665 | 5.832 | 0.07 | 0.243 | 55.7 | 292.4 | -2.8 | 0.257 |
| 4-3330 | 4-4790 | 0.727 | 96.8 | 21.4 | -1.30 | 1.289 | 124.1 | 0.799 | 3.260 | 281.4 | 551.2 | 0.655 | 5.865 | 0.07 | 0.245 | 54.4 | 293.2 | -2.8 | 0.261 |
| 4-3330 | 4-4810 | 0.737 | 97.5 | 21.4 | -1.30 | 1.289 | 124.7 | 0.803 | 3.271 | 280.2 | 551.5 | 0.644 | 5.898 | 0.07 | 0.247 | 53.2 | 293.9 | -2.8 | 0.265 |
| 4-3330 | 4-4830 | 0.748 | 98.2 | 21.4 | -1.30 | 1.289 | 125.3 | 0.807 | 3.282 | 279.0 | 551.7 | 0.634 | 5.931 | 0.07 | 0.249 | 52.0 | 294.7 | -2.7 | 0.269 |
| 4-3330 | 4-4850 | 0.759 | 99.0 | 21.4 | -1.30 | 1.290 | 125.9 | 0.811 | 3.294 | 277.8 | 552.0 | 0.623 | 5.965 | 0.07 | 0.251 | 50.8 | 295.6 | -2.7 | 0.273 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3330 | 4-4870 | 0.770 | 99.7 | 21.4 | -1.30 | 1.290 | 126.6 | 0.815 | 3.306 | 276.5 | 552.2 | 0.612 | 6.000 | 0.07 | 0.253 | 49.7 | 296.5 | -2.7 | 0.277 |
| 4-3330 | 4-4890 | 0.782 | 100.4 | 21.4 | -1.30 | 1.291 | 127.2 | 0.819 | 3.318 | 275.2 | 552.5 | 0.601 | 6.035 | 0.07 | 0.256 | 48.6 | 297.4 | -2.7 | 0.281 |
| 4-3330 | 4-4910 | 0.793 | 101.2 | 21.4 | -1.29 | 1.291 | 127.9 | 0.823 | 3.330 | 273.9 | 552.7 | 0.589 | 6.071 | 0.07 | 0.258 | 47.5 | 298.4 | -2.7 | 0.285 |
| 4-3330 | 4-4930 | 0.805 | 101.9 | 21.4 | -1.29 | 1.291 | 128.5 | 0.827 | 3.342 | 272.6 | 552.9 | 0.577 | 6.107 | 0.07 | 0.260 | 46.4 | 299.4 | -2.6 | 0.289 |
| 4-3340 | 4-3740 | 0.704 | 86.1 | 39.0 | 8.44 | 1.430 | 115.4 | 1.06313.174 | | 310.7 | 489.1 | 0.835 | --- | -9.72 | 0.677 | 158.2 | 317.4 | -5.9 | 0.638 |
| 4-3340 | 4-3780 | 0.662 | 86.7 | 1.9 | -10.96 | 1.393 | 113.5 | 0.97736.614 | | 312.3 | 494.0 | 0.852 | --- | 9.69 | 0.596 | 155.4 | 317.5 | 2.2 | 0.556 |
| 4-3340 | 4-3800 | 0.615 | 84.6 | 10.5 | -6.16 | 1.378 | 112.7 | 0.94214.794 | | 313.1 | 496.4 | 0.860 | --- | 4.90 | 0.560 | 153.9 | 317.9 | 0.3 | 0.518 |
| 4-3340 | 4-3820 | 0.589 | 83.7 | 13.5 | -4.54 | 1.366 | 112.0 | 0.912 | 9.802 | 313.7 | 498.7 | 0.867 | --- | 3.28 | 0.528 | 152.3 | 318.0 | -0.4 | 0.486 |
| 4-3340 | 4-3840 | 0.568 | 83.0 | 15.0 | -3.72 | 1.355 | 111.3 | 0.885 | 7.600 | 314.4 | 500.9 | 0.873 | --- | 2.47 | 0.499 | 150.7 | 318.0 | -0.7 | 0.456 |
| 4-3340 | 4-3860 | 0.552 | 82.4 | 15.9 | -3.23 | 1.346 | 110.8 | 0.862 | 6.368 | 314.9 | 503.1 | 0.878 | --- | 1.98 | 0.472 | 149.0 | 318.0 | -0.9 | 0.429 |
| 4-3340 | 4-3880 | 0.537 | 81.9 | 16.4 | -2.90 | 1.337 | 110.3 | 0.842 | 5.586 | 315.4 | 505.2 | 0.883 | --- | 1.65 | 0.448 | 147.3 | 317.8 | -1.1 | 0.404 |
| 4-3340 | 4-3900 | 0.525 | 81.5 | 16.8 | -2.67 | 1.330 | 109.8 | 0.824 | 5.048 | 315.9 | 507.3 | 0.887 | --- | 1.42 | 0.425 | 145.5 | 317.5 | -1.2 | 0.382 |
| 4-3340 | 4-3920 | 0.514 | 81.1 | 17.1 | -2.49 | 1.324 | 109.4 | 0.809 | 4.659 | 316.3 | 509.3 | 0.890 | --- | 1.25 | 0.405 | 143.6 | 317.1 | -1.3 | 0.361 |
| 4-3340 | 4-3940 | 0.505 | 80.8 | 17.3 | -2.35 | 1.319 | 109.1 | 0.795 | 4.367 | 316.6 | 511.2 | 0.893 | --- | 1.11 | 0.386 | 141.7 | 316.7 | -1.3 | 0.342 |
| 4-3340 | 4-3960 | 0.497 | 80.5 | 17.5 | -2.24 | 1.314 | 108.8 | 0.784 | 4.140 | 316.8 | 513.0 | 0.896 | --- | 1.01 | 0.369 | 139.7 | 316.1 | -1.4 | 0.324 |
| 4-3340 | 4-3980 | 0.490 | 80.3 | 17.7 | -2.15 | 1.310 | 108.6 | 0.773 | 3.961 | 317.0 | 514.8 | 0.898 | --- | 0.92 | 0.353 | 137.6 | 315.5 | -1.4 | 0.308 |
| 4-3340 | 4-4000 | 0.485 | 80.2 | 17.8 | -2.07 | 1.306 | 108.4 | 0.764 | 3.817 | 317.2 | 516.6 | 0.899 | --- | 0.85 | 0.338 | 135.5 | 314.8 | -1.5 | 0.294 |
| 4-3340 | 4-4020 | 0.480 | 80.1 | 17.9 | -2.01 | 1.303 | 108.3 | 0.757 | 3.699 | 317.2 | 518.2 | 0.900 | --- | 0.78 | 0.325 | 133.3 | 313.9 | -1.5 | 0.281 |
| 4-3340 | 4-4040 | 0.476 | 80.1 | 18.1 | -1.95 | 1.300 | 108.2 | 0.750 | 3.602 | 317.3 | 519.8 | 0.901 | --- | 0.73 | 0.313 | 131.1 | 313.0 | -1.6 | 0.269 |
| 4-3340 | 4-4060 | 0.473 | 80.1 | 18.2 | -1.90 | 1.298 | 108.1 | 0.744 | 3.522 | 317.2 | 521.4 | 0.901 | --- | 0.69 | 0.302 | 128.9 | 312.0 | -1.7 | 0.258 |
| 4-3340 | 4-4080 | 0.471 | 80.2 | 18.3 | -1.86 | 1.295 | 108.1 | 0.739 | 3.455 | 317.1 | 522.9 | 0.901 | --- | 0.65 | 0.292 | 126.6 | 311.0 | -1.7 | 0.248 |
| 4-3340 | 4-4100 | 0.469 | 80.4 | 18.4 | -1.82 | 1.294 | 108.1 | 0.735 | 3.398 | 317.0 | 524.3 | 0.901 | --- | 0.61 | 0.283 | 124.2 | 309.8 | -1.8 | 0.239 |
| 4-3340 | 4-4120 | 0.469 | 80.5 | 18.5 | -1.78 | 1.292 | 108.1 | 0.731 | 3.351 | 316.8 | 525.7 | 0.900 | --- | 0.58 | 0.275 | 121.8 | 308.6 | -1.8 | 0.231 |
| 4-3340 | 4-4140 | 0.468 | 80.8 | 18.6 | -1.75 | 1.291 | 108.1 | 0.728 | 3.311 | 316.5 | 527.0 | 0.899 | --- | 0.55 | 0.267 | 119.4 | 307.4 | -1.9 | 0.224 |
| 4-3340 | 4-4160 | 0.468 | 81.0 | 18.7 | -1.72 | 1.289 | 108.2 | 0.726 | 3.277 | 316.3 | 528.3 | 0.898 | --- | 0.53 | 0.261 | 117.0 | 306.1 | -1.9 | 0.218 |
| 4-3340 | 4-4180 | 0.469 | 81.4 | 18.8 | -1.70 | 1.288 | 108.3 | 0.724 | 3.249 | 315.9 | 529.5 | 0.896 | --- | 0.51 | 0.255 | 114.6 | 304.8 | -2.0 | 0.213 |
| 4-3340 | 4-4200 | 0.470 | 81.7 | 18.9 | -1.67 | 1.287 | 108.5 | 0.723 | 3.225 | 315.6 | 530.7 | 0.894 | --- | 0.49 | 0.250 | 112.1 | 303.4 | -2.0 | 0.209 |
| 4-3340 | 4-4220 | 0.472 | 82.1 | 19.0 | -1.65 | 1.287 | 108.6 | 0.722 | 3.205 | 315.1 | 531.8 | 0.892 | --- | 0.47 | 0.245 | 109.7 | 302.1 | -2.1 | 0.205 |
| 4-3340 | 4-4240 | 0.474 | 82.5 | 19.1 | -1.63 | 1.286 | 108.8 | 0.721 | 3.188 | 314.7 | 532.9 | 0.890 | --- | 0.45 | 0.241 | 107.3 | 300.8 | -2.1 | 0.202 |
| 4-3340 | 4-4260 | 0.477 | 83.0 | 19.2 | -1.61 | 1.286 | 109.0 | 0.720 | 3.175 | 314.2 | 534.0 | 0.888 | --- | 0.44 | 0.237 | 104.9 | 299.5 | -2.2 | 0.199 |
| 4-3340 | 4-4280 | 0.479 | 83.5 | 19.3 | -1.59 | 1.285 | 109.2 | 0.720 | 3.164 | 313.7 | 535.0 | 0.885 | --- | 0.43 | 0.234 | 102.5 | 298.3 | -2.2 | 0.197 |
| 4-3340 | 4-4300 | 0.483 | 84.0 | 19.4 | -1.58 | 1.285 | 109.4 | 0.721 | 3.156 | 313.1 | 536.0 | 0.882 | --- | 0.41 | 0.232 | 100.2 | 297.1 | -2.2 | 0.196 |
| 4-3340 | 4-4320 | 0.486 | 84.5 | 19.5 | -1.56 | 1.285 | 109.7 | 0.721 | 3.149 | 312.5 | 536.9 | 0.878 | --- | 0.40 | 0.230 | 97.8 | 296.0 | -2.3 | 0.195 |
| 4-3340 | 4-4340 | 0.490 | 85.1 | 19.6 | -1.55 | 1.284 | 109.9 | 0.722 | 3.145 | 311.9 | 537.8 | 0.875 | --- | 0.39 | 0.228 | 95.6 | 295.0 | -2.3 | 0.195 |
| 4-3340 | 4-4360 | 0.494 | 85.6 | 19.6 | -1.53 | 1.284 | 110.2 | 0.723 | 3.141 | 311.2 | 538.7 | 0.871 | --- | 0.38 | 0.227 | 93.3 | 294.0 | -2.4 | 0.195 |
| 4-3340 | 4-4380 | 0.499 | 86.2 | 19.7 | -1.52 | 1.284 | 110.5 | 0.724 | 3.140 | 310.5 | 539.6 | 0.867 | --- | 0.37 | 0.226 | 91.1 | 293.2 | -2.4 | 0.195 |
| 4-3340 | 4-4400 | 0.504 | 86.8 | 19.8 | -1.51 | 1.284 | 110.8 | 0.725 | 3.140 | 309.8 | 540.4 | 0.863 | 5.417 | 0.36 | 0.225 | 89.0 | 292.4 | -2.4 | 0.196 |
| 4-3340 | 4-4420 | 0.509 | 87.5 | 19.9 | -1.49 | 1.284 | 111.2 | 0.727 | 3.141 | 309.0 | 541.2 | 0.858 | 5.423 | 0.36 | 0.225 | 86.9 | 291.7 | -2.4 | 0.197 |
| 4-3340 | 4-4440 | 0.514 | 88.1 | 20.0 | -1.48 | 1.284 | 111.5 | 0.728 | 3.142 | 308.3 | 541.9 | 0.853 | 5.432 | 0.35 | 0.225 | 84.9 | 291.1 | -2.5 | 0.198 |
| 4-3340 | 4-4460 | 0.520 | 88.8 | 20.1 | -1.47 | 1.284 | 111.9 | 0.730 | 3.145 | 307.5 | 542.6 | 0.848 | 5.442 | 0.34 | 0.225 | 82.9 | 290.6 | -2.5 | 0.200 |
| 4-3340 | 4-4480 | 0.526 | 89.5 | 20.1 | -1.46 | 1.285 | 112.2 | 0.732 | 3.149 | 306.6 | 543.3 | 0.843 | 5.455 | 0.34 | 0.225 | 81.0 | 290.2 | -2.5 | 0.202 |
| 4-3340 | 4-4500 | 0.532 | 90.2 | 20.2 | -1.45 | 1.285 | 112.6 | 0.734 | 3.154 | 305.8 | 544.0 | 0.838 | 5.470 | 0.33 | 0.226 | 79.1 | 289.9 | -2.5 | 0.204 |
| 4-3340 | 4-4520 | 0.538 | 90.9 | 20.3 | -1.44 | 1.285 | 113.0 | 0.737 | 3.159 | 304.9 | 544.7 | 0.832 | 5.486 | 0.33 | 0.227 | 77.3 | 289.6 | -2.5 | 0.206 |
| 4-3340 | 4-4540 | 0.545 | 91.6 | 20.3 | -1.43 | 1.285 | 113.4 | 0.739 | 3.165 | 304.0 | 545.3 | 0.826 | 5.504 | 0.32 | 0.228 | 75.6 | 289.5 | -2.6 | 0.209 |
| 4-3340 | 4-4560 | 0.552 | 92.3 | 20.4 | -1.42 | 1.285 | 113.8 | 0.741 | 3.171 | 303.1 | 545.9 | 0.820 | 5.523 | 0.32 | 0.229 | 73.9 | 289.4 | -2.6 | 0.211 |
| 4-3340 | 4-4580 | 0.559 | 93.0 | 20.5 | -1.41 | 1.286 | 114.3 | 0.744 | 3.178 | 302.2 | 546.5 | 0.814 | 5.543 | 0.31 | 0.230 | 72.2 | 289.5 | -2.6 | 0.214 |
| 4-3340 | 4-4600 | 0.566 | 93.7 | 20.5 | -1.40 | 1.286 | 114.7 | 0.747 | 3.186 | 301.2 | 547.0 | 0.807 | 5.565 | 0.31 | 0.231 | 70.6 | 289.6 | -2.6 | 0.217 |
| 4-3340 | 4-4620 | 0.574 | 94.5 | 20.6 | -1.39 | 1.286 | 115.2 | 0.749 | 3.194 | 300.2 | 547.5 | 0.800 | 5.588 | 0.30 | 0.233 | 69.0 | 289.7 | -2.6 | 0.220 |
| 4-3340 | 4-4640 | 0.582 | 95.2 | 20.6 | -1.38 | 1.287 | 115.7 | 0.752 | 3.202 | 299.2 | 548.1 | 0.793 | 5.612 | 0.30 | 0.234 | 67.5 | 290.0 | -2.6 | 0.223 |
| 4-3340 | 4-4660 | 0.590 | 96.0 | 20.6 | -1.38 | 1.287 | 116.1 | 0.755 | 3.211 | 298.2 | 548.6 | 0.786 | 5.637 | 0.30 | 0.236 | 66.1 | 290.3 | -2.6 | 0.226 |
| 4-3340 | 4-4680 | 0.598 | 96.7 | 20.7 | -1.37 | 1.287 | 116.6 | 0.758 | 3.220 | 297.2 | 549.0 | 0.778 | 5.663 | 0.30 | 0.237 | 64.6 | 290.6 | -2.6 | 0.229 |
| 4-3340 | 4-4700 | 0.607 | 97.5 | 20.7 | -1.36 | 1.288 | 117.1 | 0.762 | 3.230 | 296.1 | 549.5 | 0.770 | 5.690 | 0.29 | 0.239 | 63.3 | 291.1 | -2.6 | 0.232 |
| 4-3340 | 4-4720 | 0.616 | 98.2 | 20.7 | -1.35 | 1.288 | 117.6 | 0.765 | 3.240 | 295.0 | 549.9 | 0.762 | 5.717 | 0.29 | 0.241 | 61.9 | 291.6 | -2.6 | 0.236 |
| 4-3340 | 4-4740 | 0.624 | 99.0 | 20.7 | -1.34 | 1.288 | 118.2 | 0.768 | 3.250 | 293.9 | 550.3 | 0.754 | 5.746 | 0.29 | 0.243 | 60.6 | 292.1 | -2.6 | 0.239 |
| 4-3340 | 4-4760 | 0.634 | 99.7 | 20.8 | -1.33 | 1.289 | 118.7 | 0.771 | 3.260 | 292.8 | 550.7 | 0.745 | 5.775 | 0.29 | 0.245 | 59.4 | 292.7 | -2.6 | 0.242 |
| 4-3340 | 4-4780 | 0.643 | 100.5 | 20.8 | -1.33 | 1.289 | 119.2 | 0.775 | 3.271 | 291.7 | 551.1 | 0.737 | 5.805 | 0.29 | 0.247 | 58.1 | 293.3 | -2.6 | 0.246 |
| 4-3340 | 4-4800 | 0.653 | 101.3 | 20.8 | -1.32 | 1.290 | 119.8 | 0.778 | 3.282 | 290.5 | 551.5 | 0.728 | 5.836 | 0.28 | 0.249 | 56.9 | 294.0 | -2.6 | 0.249 |
| 4-3340 | 4-4820 | 0.662 | 102.0 | 20.8 | -1.31 | 1.290 | 120.4 | 0.782 | 3.293 | 289.3 | 551.8 | 0.718 | 5.867 | 0.28 | 0.251 | 55.7 | 294.8 | -2.6 | 0.253 |
| 4-3340 | 4-4840 | 0.672 | 102.8 | 20.8 | -1.30 | 1.290 | 120.9 | 0.786 | 3.304 | 288.2 | 552.1 | 0.709 | 5.899 | 0.28 | 0.253 | 54.6 | 295.5 | -2.5 | 0.257 |
| 4-3340 | 4-4860 | 0.683 | 103.6 | 20.8 | -1.30 | 1.291 | 121.5 | 0.789 | 3.315 | 287.0 | 552.4 | 0.699 | 5.932 | 0.28 | 0.255 | 53.5 | 296.3 | -2.5 | 0.260 |
| 4-3340 | 4-4880 | 0.693 | 104.3 | 20.7 | -1.29 | 1.291 | 122.1 | 0.793 | 3.327 | 285.7 | 552.7 | 0.689 | 5.965 | 0.28 | 0.257 | 52.4 | 297.2 | -2.5 | 0.264 |
| 4-3340 | 4-4900 | 0.704 | 105.1 | 20.7 | -1.28 | 1.292 | 122.7 | 0.797 | 3.339 | 284.5 | 553.0 | 0.679 | 5.999 | 0.28 | 0.259 | 51.3 | 298.1 | -2.5 | 0.268 |
| 4-3340 | 4-4920 | 0.714 | 105.9 | 20.7 | -1.27 | 1.292 | 123.4 | 0.801 | 3.351 | 283.2 | 553.2 | 0.668 | 6.033 | 0.28 | 0.262 | 50.3 | 299.0 | -2.5 | 0.272 |
| 4-3340 | 4-4940 | 0.725 | 106.7 | 20.7 | -1.27 | 1.292 | 124.0 | 0.805 | 3.363 | 282.0 | 553.5 | 0.657 | 6.068 | 0.28 | 0.264 | 49.2 | 300.0 | -2.5 | 0.276 |
| 4-3350 | 4-3750 | 0.626 | 88.5 | 26.5 | 1.46 | 1.430 | 111.7 | 1.06613.382 | | 318.1 | 487.7 | 0.881 | --- | -2.71 | 0.676 | 157.6 | 318.9 | -3.1 | 0.630 |
| 4-3350 | 4-3770 | 0.597 | 87.7 | 27.8 | 1.97 | 1.410 | 110.7 | 1.01751.520 | | 319.0 | 490.2 | 0.890 | --- | -3.22 | 0.634 | 156.2 | 319.2 | -3.4 | 0.587 |
| 4-3350 | 4-3790 | 0.572 | 86.8 | 29.6 | 2.72 | 1.393 | 109.8 | 0.97536.524 | | 319.8 | 492.7 | 0.897 | --- | -3.96 | 0.595 | 154.7 | 319.4 | -3.8 | 0.549 |
| 4-3350 | 4-3810 | 0.553 | 86.0 | 32.6 | 3.90 | 1.379 | 109.0 | 0.93914.871 | | 320.6 | 495.2 | 0.904 | --- | -5.14 | 0.560 | 153.2 | 319.5 | -4.5 | 0.514 |
| 4-3350 | 4-3830 | 0.541 | 85.4 | 38.1 | 6.08 | 1.367 | 108.3 | 0.908 | 9.869 | 321.4 | 497.5 | 0.910 | --- | -7.30 | 0.529 | 151.7 | 319.4 | -5.8 | 0.483 |
| 4-3350 | 4-3850 | 0.557 | 86.2 | 50.6 | 11.36 | 1.356 | 107.7 | 0.880 | 7.658 | 322.1 | 499.8 | 0.915 | --- | -12.58 | 0.500 | 150.1 | 319.1 | -8.8 | 0.457 |
| 4-3350 | 4-3870 | 0.907 | 185.0 | 77.2 | 39.48 | 1.347 | 107.1 | 0.857 | 6.419 | 322.8 | 502.1 | 0.920 | --- | -40.69 | 0.473 | 148.4 | 313.3 | -21.9 | 0.482 |
| 4-3350 | 4-3890 | 0.701 | 95.8 | -30.5 | -26.19 | 1.338 | 106.7 | 0.836 | 5.631 | 323.1 | 504.3 | 0.923 | --- | 24.98 | 0.449 | 146.7 | 315.8 | 12.1 | 0.425 |
| 4-3350 | 4-3910 | 0.522 | 86.5 | -6.1 | -11.61 | 1.331 | 106.3 | 0.818 | 5.090 | 323.7 | 506.4 | 0.927 | --- | 10.41 | 0.427 | 144.8 | 318.1 | 4.6 | 0.382 |
| 4-3350 | 4-3930 | 0.485 | 84.5 | 2.6 | -7.73 | 1.325 | 105.9 | 0.802 | 4.698 | 324.1 | 508.4 | 0.930 | --- | 6.53 | 0.407 | 143.0 | 318.2 | 2.4 | 0.359 |
| 4-3350 | 4-3950 | 0.467 | 83.5 | 6.9 | -5.95 | 1.320 | 105.6 | 0.788 | 4.403 | 324.5 | 510.4 | 0.932 | --- | 4.76 | 0.388 | 141.1 | 317.9 | 1.4 | 0.339 |
| 4-3350 | 4-3970 | 0.455 | 82.9 | 9.4 | -4.93 | 1.315 | 105.3 | 0.776 | 4.175 | 324.8 | 512.3 | 0.934 | --- | 3.75 | 0.371 | 139.1 | 317.4 | 0.8 | 0.322 |
| 4-3350 | 4-3990 | 0.446 | 82.5 | 11.1 | -4.27 | 1.311 | 105.1 | 0.766 | 3.994 | 325.0 | 514.1 | 0.936 | --- | 3.10 | 0.355 | 137.1 | 316.8 | 0.4 | 0.306 |
| 4-3350 | 4-4010 | 0.439 | 82.2 | 12.2 | -3.80 | 1.307 | 104.9 | 0.756 | 3.848 | 325.2 | 515.9 | 0.937 | --- | 2.64 | 0.341 | 135.0 | 316.1 | 0.1 | 0.291 |
| 4-3350 | 4-4030 | 0.434 | 82.0 | 13.1 | -3.46 | 1.304 | 104.8 | 0.748 | 3.730 | 325.3 | 517.6 | 0.938 | --- | 2.30 | 0.328 | 132.8 | 315.4 | -0.2 | 0.278 |
| 4-3350 | 4-4050 | 0.429 | 81.8 | 13.8 | -3.19 | 1.301 | 104.7 | 0.741 | 3.632 | 325.3 | 519.2 | 0.939 | --- | 2.04 | 0.316 | 130.6 | 314.5 | -0.3 | 0.266 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3350 | 4-4070 | 0.426 | 81.8 | 14.4 | -2.98 | 1.299 | 104.6 | 0.735 | 3.551 | 325.3 | 520.8 | 0.939 | --- | 1.84 | 0.305 | 128.4 | 313.5 | -0.5 | 0.255 |
| 4-3350 | 4-4090 | 0.423 | 81.8 | 14.9 | -2.81 | 1.297 | 104.6 | 0.730 | 3.483 | 325.3 | 522.3 | 0.939 | --- | 1.67 | 0.296 | 126.1 | 312.5 | -0.6 | 0.245 |
| 4-3350 | 4-4110 | 0.421 | 81.9 | 15.3 | -2.66 | 1.295 | 104.6 | 0.726 | 3.426 | 325.2 | 523.7 | 0.939 | --- | 1.53 | 0.287 | 123.9 | 311.4 | -0.8 | 0.236 |
| 4-3350 | 4-4130 | 0.420 | 82.1 | 15.6 | -2.54 | 1.293 | 104.6 | 0.722 | 3.378 | 325.0 | 525.1 | 0.939 | --- | 1.42 | 0.279 | 121.5 | 310.2 | -0.9 | 0.228 |
| 4-3350 | 4-4150 | 0.419 | 82.3 | 16.0 | -2.44 | 1.292 | 104.6 | 0.719 | 3.338 | 324.8 | 526.5 | 0.938 | --- | 1.32 | 0.271 | 119.2 | 309.0 | -1.0 | 0.221 |
| 4-3350 | 4-4170 | 0.419 | 82.6 | 16.3 | -2.35 | 1.291 | 104.7 | 0.716 | 3.303 | 324.5 | 527.8 | 0.937 | --- | 1.24 | 0.265 | 116.8 | 307.7 | -1.1 | 0.215 |
| 4-3350 | 4-4190 | 0.420 | 82.9 | 16.5 | -2.27 | 1.290 | 104.8 | 0.714 | 3.275 | 324.2 | 529.0 | 0.936 | --- | 1.16 | 0.259 | 114.5 | 306.4 | -1.2 | 0.210 |
| 4-3350 | 4-4210 | 0.420 | 83.3 | 16.8 | -2.20 | 1.289 | 104.9 | 0.713 | 3.251 | 323.8 | 530.2 | 0.934 | --- | 1.10 | 0.254 | 112.1 | 305.1 | -1.2 | 0.205 |
| 4-3350 | 4-4230 | 0.422 | 83.7 | 17.0 | -2.13 | 1.288 | 105.1 | 0.711 | 3.230 | 323.5 | 531.4 | 0.933 | --- | 1.04 | 0.250 | 109.7 | 303.8 | -1.3 | 0.201 |
| 4-3350 | 4-4250 | 0.423 | 84.1 | 17.2 | -2.07 | 1.288 | 105.3 | 0.710 | 3.214 | 323.0 | 532.5 | 0.931 | --- | 0.99 | 0.246 | 107.4 | 302.5 | -1.4 | 0.198 |
| 4-3350 | 4-4270 | 0.425 | 84.6 | 17.4 | -2.02 | 1.287 | 105.4 | 0.710 | 3.200 | 322.5 | 533.6 | 0.929 | --- | 0.95 | 0.242 | 105.1 | 301.2 | -1.5 | 0.195 |
| 4-3350 | 4-4290 | 0.427 | 85.2 | 17.6 | -1.97 | 1.287 | 105.6 | 0.709 | 3.189 | 322.0 | 534.6 | 0.927 | --- | 0.91 | 0.239 | 102.8 | 300.0 | -1.6 | 0.193 |
| 4-3350 | 4-4310 | 0.430 | 85.7 | 17.8 | -1.93 | 1.286 | 105.9 | 0.709 | 3.180 | 321.5 | 535.6 | 0.924 | --- | 0.87 | 0.237 | 100.5 | 298.8 | -1.6 | 0.192 |
| 4-3350 | 4-4330 | 0.433 | 86.3 | 18.0 | -1.89 | 1.286 | 106.1 | 0.710 | 3.174 | 320.9 | 536.6 | 0.921 | --- | 0.84 | 0.235 | 98.3 | 297.7 | -1.7 | 0.191 |
| 4-3350 | 4-4350 | 0.436 | 87.0 | 18.2 | -1.85 | 1.286 | 106.4 | 0.710 | 3.169 | 320.3 | 537.5 | 0.918 | --- | 0.81 | 0.233 | 96.1 | 296.7 | -1.8 | 0.190 |
| 4-3350 | 4-4370 | 0.440 | 87.6 | 18.3 | -1.82 | 1.286 | 106.6 | 0.711 | 3.166 | 319.7 | 538.4 | 0.915 | --- | 0.78 | 0.232 | 93.9 | 295.7 | -1.8 | 0.190 |
| 4-3350 | 4-4390 | 0.444 | 88.3 | 18.5 | -1.79 | 1.286 | 106.9 | 0.712 | 3.164 | 319.0 | 539.3 | 0.912 | --- | 0.76 | 0.231 | 91.8 | 294.8 | -1.9 | 0.190 |
| 4-3350 | 4-4410 | 0.448 | 89.0 | 18.6 | -1.76 | 1.286 | 107.2 | 0.713 | 3.163 | 318.3 | 540.1 | 0.909 | 5.418 | 0.73 | 0.230 | 89.8 | 294.0 | -1.9 | 0.191 |
| 4-3350 | 4-4430 | 0.453 | 89.7 | 18.8 | -1.73 | 1.286 | 107.5 | 0.714 | 3.164 | 317.6 | 540.9 | 0.905 | 5.423 | 0.71 | 0.230 | 87.8 | 293.3 | -2.0 | 0.192 |
| 4-3350 | 4-4450 | 0.457 | 90.4 | 18.9 | -1.70 | 1.286 | 107.8 | 0.715 | 3.166 | 316.8 | 541.7 | 0.901 | 5.431 | 0.69 | 0.230 | 85.8 | 292.6 | -2.0 | 0.193 |
| 4-3350 | 4-4470 | 0.462 | 91.2 | 19.0 | -1.68 | 1.286 | 108.2 | 0.717 | 3.169 | 316.0 | 542.4 | 0.897 | 5.441 | 0.67 | 0.230 | 83.9 | 292.1 | -2.0 | 0.194 |
| 4-3350 | 4-4490 | 0.468 | 92.0 | 19.1 | -1.65 | 1.286 | 108.5 | 0.719 | 3.172 | 315.2 | 543.1 | 0.892 | 5.452 | 0.66 | 0.230 | 82.1 | 291.7 | -2.1 | 0.196 |
| 4-3350 | 4-4510 | 0.473 | 92.7 | 19.2 | -1.63 | 1.286 | 108.9 | 0.720 | 3.177 | 314.4 | 543.8 | 0.888 | 5.466 | 0.64 | 0.231 | 80.3 | 291.3 | -2.1 | 0.198 |
| 4-3350 | 4-4530 | 0.479 | 93.5 | 19.3 | -1.61 | 1.286 | 109.3 | 0.722 | 3.182 | 313.5 | 544.5 | 0.883 | 5.481 | 0.63 | 0.231 | 78.5 | 291.1 | -2.1 | 0.200 |
| 4-3350 | 4-4550 | 0.485 | 94.3 | 19.4 | -1.59 | 1.287 | 109.7 | 0.724 | 3.188 | 312.7 | 545.2 | 0.878 | 5.497 | 0.62 | 0.232 | 76.9 | 290.9 | -2.2 | 0.202 |
| 4-3350 | 4-4570 | 0.491 | 95.1 | 19.5 | -1.57 | 1.287 | 110.1 | 0.727 | 3.194 | 311.8 | 545.8 | 0.873 | 5.515 | 0.60 | 0.233 | 75.2 | 290.8 | -2.2 | 0.204 |
| 4-3350 | 4-4590 | 0.497 | 95.9 | 19.6 | -1.55 | 1.287 | 110.5 | 0.729 | 3.201 | 310.9 | 546.4 | 0.868 | 5.534 | 0.59 | 0.234 | 73.6 | 290.8 | -2.2 | 0.206 |
| 4-3350 | 4-4610 | 0.504 | 96.7 | 19.6 | -1.53 | 1.287 | 110.9 | 0.731 | 3.208 | 309.9 | 547.0 | 0.862 | 5.555 | 0.58 | 0.236 | 72.1 | 290.8 | -2.2 | 0.209 |
| 4-3350 | 4-4630 | 0.511 | 97.6 | 19.7 | -1.51 | 1.288 | 111.3 | 0.734 | 3.216 | 309.0 | 547.5 | 0.856 | 5.576 | 0.57 | 0.237 | 70.6 | 290.9 | -2.3 | 0.212 |
| 4-3350 | 4-4650 | 0.518 | 98.4 | 19.8 | -1.49 | 1.288 | 111.8 | 0.736 | 3.225 | 308.0 | 548.1 | 0.850 | 5.599 | 0.56 | 0.239 | 69.2 | 291.2 | -2.3 | 0.215 |
| 4-3350 | 4-4670 | 0.525 | 99.2 | 19.8 | -1.48 | 1.288 | 112.2 | 0.739 | 3.233 | 307.0 | 548.6 | 0.844 | 5.623 | 0.56 | 0.240 | 67.8 | 291.4 | -2.3 | 0.217 |
| 4-3350 | 4-4690 | 0.533 | 100.1 | 19.9 | -1.46 | 1.289 | 112.7 | 0.742 | 3.242 | 306.0 | 549.1 | 0.837 | 5.647 | 0.55 | 0.242 | 66.4 | 291.8 | -2.3 | 0.220 |
| 4-3350 | 4-4710 | 0.541 | 100.9 | 19.9 | -1.44 | 1.289 | 113.2 | 0.745 | 3.252 | 305.0 | 549.6 | 0.831 | 5.673 | 0.54 | 0.243 | 65.1 | 292.1 | -2.3 | 0.223 |
| 4-3350 | 4-4730 | 0.549 | 101.7 | 19.9 | -1.43 | 1.289 | 113.6 | 0.747 | 3.261 | 303.9 | 550.0 | 0.824 | 5.699 | 0.53 | 0.245 | 63.8 | 292.6 | -2.3 | 0.227 |
| 4-3350 | 4-4750 | 0.557 | 102.6 | 19.9 | -1.41 | 1.290 | 114.1 | 0.750 | 3.271 | 302.8 | 550.5 | 0.816 | 5.726 | 0.53 | 0.247 | 62.5 | 293.1 | -2.3 | 0.230 |
| 4-3350 | 4-4770 | 0.565 | 103.4 | 20.0 | -1.40 | 1.290 | 114.6 | 0.753 | 3.282 | 301.8 | 550.9 | 0.809 | 5.754 | 0.52 | 0.249 | 61.3 | 293.6 | -2.3 | 0.233 |
| 4-3350 | 4-4790 | 0.574 | 104.2 | 20.0 | -1.38 | 1.290 | 115.2 | 0.757 | 3.292 | 300.7 | 551.3 | 0.801 | 5.783 | 0.52 | 0.251 | 60.1 | 294.3 | -2.3 | 0.236 |
| 4-3350 | 4-4810 | 0.583 | 105.1 | 20.0 | -1.37 | 1.291 | 115.7 | 0.760 | 3.303 | 299.5 | 551.7 | 0.793 | 5.812 | 0.51 | 0.253 | 59.0 | 294.9 | -2.3 | 0.239 |
| 4-3350 | 4-4830 | 0.592 | 105.9 | 20.0 | -1.35 | 1.291 | 116.2 | 0.763 | 3.314 | 298.4 | 552.1 | 0.785 | 5.842 | 0.51 | 0.255 | 57.9 | 295.6 | -2.3 | 0.243 |
| 4-3350 | 4-4850 | 0.601 | 106.7 | 20.0 | -1.34 | 1.292 | 116.8 | 0.766 | 3.325 | 297.3 | 552.4 | 0.777 | 5.873 | 0.51 | 0.257 | 56.8 | 296.3 | -2.3 | 0.246 |
| 4-3350 | 4-4870 | 0.610 | 107.6 | 19.9 | -1.33 | 1.292 | 117.3 | 0.770 | 3.336 | 296.1 | 552.8 | 0.768 | 5.904 | 0.50 | 0.259 | 55.7 | 297.1 | -2.3 | 0.250 |
| 4-3350 | 4-4890 | 0.620 | 108.4 | 19.9 | -1.31 | 1.292 | 117.9 | 0.773 | 3.348 | 294.9 | 553.1 | 0.759 | 5.936 | 0.50 | 0.261 | 54.7 | 297.9 | -2.3 | 0.253 |
| 4-3350 | 4-4910 | 0.630 | 109.2 | 19.9 | -1.30 | 1.293 | 118.5 | 0.777 | 3.359 | 293.7 | 553.4 | 0.750 | 5.968 | 0.50 | 0.263 | 53.6 | 298.8 | -2.3 | 0.257 |
| 4-3350 | 4-4930 | 0.640 | 110.1 | 19.9 | -1.29 | 1.293 | 119.0 | 0.780 | 3.371 | 292.5 | 553.7 | 0.741 | 6.001 | 0.49 | 0.265 | 52.6 | 299.7 | -2.3 | 0.260 |
| 4-3350 | 4-4950 | 0.650 | 110.9 | 19.8 | -1.27 | 1.294 | 119.6 | 0.784 | 3.383 | 291.3 | 554.0 | 0.731 | 6.034 | 0.49 | 0.267 | 51.7 | 300.6 | -2.2 | 0.264 |
| 4-3360 | 4-3720 | 0.638 | 92.5 | 24.6 | 0.54 | 1.478 | 109.8 | 1.193 | -4.711 | 323.7 | 481.2 | 0.907 | --- | -1.79 | 0.772 | 159.5 | 319.5 | -2.7 | 0.721 |
| 4-3360 | 4-3740 | 0.601 | 91.3 | 25.0 | 0.69 | 1.451 | 108.7 | 1.124 | -7.408 | 324.7 | 484.0 | 0.916 | --- | -1.93 | 0.720 | 158.2 | 319.9 | -2.7 | 0.669 |
| 4-3360 | 4-3760 | 0.568 | 90.2 | 25.5 | 0.86 | 1.429 | 107.7 | 1.06 | 514.212 | 325.7 | 486.6 | 0.924 | --- | -2.09 | 0.673 | 156.9 | 320.1 | -2.9 | 0.622 |
| 4-3360 | 4-3780 | 0.540 | 89.1 | 26.1 | 1.06 | 1.410 | 106.8 | 1.01 | 562.636 | 326.7 | 489.2 | 0.931 | --- | -2.27 | 0.631 | 155.5 | 320.4 | -3.0 | 0.580 |
| 4-3360 | 4-3800 | 0.516 | 88.0 | 26.8 | 1.30 | 1.393 | 105.9 | 0.97 | 233.268 | 327.6 | 491.8 | 0.937 | --- | -2.50 | 0.593 | 154.1 | 320.5 | -3.1 | 0.542 |
| 4-3360 | 4-3820 | 0.495 | 87.0 | 27.7 | 1.59 | 1.379 | 105.2 | 0.93 | 514.436 | 328.5 | 494.3 | 0.942 | --- | -2.78 | 0.558 | 152.6 | 320.7 | -3.4 | 0.507 |
| 4-3360 | 4-3840 | 0.477 | 85.9 | 28.8 | 1.95 | 1.367 | 104.5 | 0.903 | 9.728 | 329.3 | 496.7 | 0.947 | --- | -3.14 | 0.527 | 151.0 | 320.7 | -3.6 | 0.475 |
| 4-3360 | 4-3860 | 0.462 | 85.0 | 30.3 | 2.42 | 1.356 | 103.9 | 0.875 | 7.599 | 330.1 | 499.1 | 0.951 | --- | -3.59 | 0.498 | 149.4 | 320.7 | -4.0 | 0.447 |
| 4-3360 | 4-3880 | 0.449 | 84.1 | 32.2 | 3.04 | 1.347 | 103.4 | 0.851 | 6.394 | 330.7 | 501.4 | 0.955 | --- | -4.21 | 0.472 | 147.7 | 320.5 | -4.5 | 0.420 |
| 4-3360 | 4-3900 | 0.440 | 83.2 | 35.0 | 3.92 | 1.339 | 103.0 | 0.830 | 5.623 | 331.4 | 503.6 | 0.958 | --- | -5.08 | 0.448 | 146.0 | 320.3 | -5.2 | 0.396 |
| 4-3360 | 4-3920 | 0.435 | 82.4 | 39.2 | 5.25 | 1.332 | 102.6 | 0.811 | 5.091 | 331.9 | 505.8 | 0.961 | --- | -6.40 | 0.427 | 144.2 | 320.0 | -6.2 | 0.375 |
| 4-3360 | 4-3940 | 0.439 | 81.8 | 46.0 | 7.52 | 1.326 | 102.2 | 0.795 | 4.705 | 332.4 | 507.8 | 0.963 | --- | -8.66 | 0.407 | 142.3 | 319.6 | -8.0 | 0.356 |
| 4-3360 | 4-3960 | 0.470 | 82.3 | 58.7 | 12.18 | 1.321 | 101.9 | 0.781 | 4.413 | 332.8 | 509.8 | 0.965 | --- | -13.31 | 0.388 | 140.4 | 318.7 | -11.6 | 0.343 |
| 4-3360 | 4-3980 | 0.656 | 135.6 | 84.3 | 26.79 | 1.316 | 101.6 | 0.769 | 4.187 | 333.2 | 511.8 | 0.967 | --- | -27.91 | 0.372 | 138.4 | 315.5 | -21.2 | 0.354 |
| 4-3360 | 4-4000 | 1.304 | 146.6 | -60.7 | -67.06 | 1.312 | 101.7 | 0.759 | 4.008 | 332.9 | 513.6 | 0.966 | --- | 65.95 | 0.356 | 136.5 | 300.8 | 26.2 | 0.465 |
| 4-3360 | 4-4020 | 0.563 | 90.8 | -31.0 | -20.92 | 1.309 | 101.4 | 0.749 | 3.864 | 333.4 | 515.4 | 0.969 | --- | 19.82 | 0.342 | 134.4 | 314.6 | 13.4 | 0.308 |
| 4-3360 | 4-4040 | 0.452 | 85.3 | -13.4 | -12.20 | 1.306 | 101.2 | 0.741 | 3.746 | 333.6 | 517.1 | 0.969 | --- | 11.10 | 0.330 | 132.2 | 315.5 | 7.5 | 0.281 |
| 4-3360 | 4-4060 | 0.417 | 83.6 | -4.6 | -8.77 | 1.303 | 101.1 | 0.734 | 3.649 | 333.7 | 518.8 | 0.970 | --- | 7.69 | 0.318 | 130.1 | 315.1 | 4.9 | 0.266 |
| 4-3360 | 4-4080 | 0.401 | 82.8 | 0.6 | -6.95 | 1.300 | 101.0 | 0.728 | 3.568 | 333.7 | 520.4 | 0.970 | --- | 5.88 | 0.307 | 127.9 | 314.4 | 3.4 | 0.254 |
| 4-3360 | 4-4100 | 0.392 | 82.4 | 4.0 | -5.83 | 1.298 | 101.0 | 0.723 | 3.501 | 333.7 | 521.9 | 0.970 | --- | 4.77 | 0.298 | 125.6 | 313.4 | 2.5 | 0.243 |
| 4-3360 | 4-4120 | 0.387 | 82.2 | 6.3 | -5.06 | 1.297 | 101.0 | 0.718 | 3.444 | 333.6 | 523.4 | 0.970 | --- | 4.01 | 0.289 | 123.4 | 312.4 | 1.9 | 0.234 |
| 4-3360 | 4-4140 | 0.383 | 82.2 | 8.1 | -4.51 | 1.295 | 101.0 | 0.714 | 3.397 | 333.4 | 524.8 | 0.970 | --- | 3.46 | 0.281 | 121.1 | 311.3 | 1.4 | 0.226 |
| 4-3360 | 4-4160 | 0.381 | 82.3 | 9.5 | -4.09 | 1.294 | 101.1 | 0.711 | 3.356 | 333.2 | 526.2 | 0.969 | --- | 3.05 | 0.274 | 118.8 | 310.1 | 1.0 | 0.219 |
| 4-3360 | 4-4180 | 0.379 | 82.5 | 10.6 | -3.75 | 1.292 | 101.2 | 0.708 | 3.322 | 333.0 | 527.5 | 0.969 | --- | 2.73 | 0.268 | 116.5 | 308.9 | 0.7 | 0.213 |
| 4-3360 | 4-4200 | 0.378 | 82.8 | 11.5 | -3.49 | 1.291 | 101.3 | 0.706 | 3.294 | 332.7 | 528.7 | 0.968 | --- | 2.47 | 0.262 | 114.2 | 307.6 | 0.4 | 0.207 |
| 4-3360 | 4-4220 | 0.378 | 83.2 | 12.3 | -3.26 | 1.291 | 101.4 | 0.704 | 3.270 | 332.3 | 530.0 | 0.967 | --- | 2.26 | 0.257 | 111.9 | 306.3 | 0.2 | 0.202 |
| 4-3360 | 4-4240 | 0.379 | 83.6 | 13.0 | -3.08 | 1.290 | 101.5 | 0.703 | 3.250 | 332.0 | 531.1 | 0.965 | --- | 2.08 | 0.253 | 109.6 | 305.1 | -0.0 | 0.198 |
| 4-3360 | 4-4260 | 0.379 | 84.1 | 13.6 | -2.92 | 1.289 | 101.7 | 0.702 | 3.233 | 331.5 | 532.2 | 0.964 | --- | 1.93 | 0.249 | 107.3 | 303.8 | -0.2 | 0.195 |
| 4-3360 | 4-4280 | 0.381 | 84.7 | 14.1 | -2.78 | 1.289 | 101.9 | 0.701 | 3.220 | 331.1 | 533.3 | 0.962 | --- | 1.80 | 0.246 | 105.0 | 302.5 | -0.4 | 0.192 |
| 4-3360 | 4-4300 | 0.382 | 85.2 | 14.6 | -2.66 | 1.288 | 102.1 | 0.701 | 3.209 | 330.6 | 534.4 | 0.961 | --- | 1.69 | 0.243 | 102.8 | 301.3 | -0.5 | 0.190 |
| 4-3360 | 4-4320 | 0.384 | 85.9 | 15.0 | -2.55 | 1.288 | 102.3 | 0.700 | 3.200 | 330.0 | 535.4 | 0.959 | --- | 1.60 | 0.241 | 100.6 | 300.1 | -0.6 | 0.188 |
| 4-3360 | 4-4340 | 0.387 | 86.6 | 15.4 | -2.46 | 1.288 | 102.5 | 0.700 | 3.193 | 329.5 | 536.4 | 0.957 | --- | 1.51 | 0.239 | 98.4 | 299.0 | -0.8 | 0.187 |
| 4-3360 | 4-4360 | 0.389 | 87.3 | 15.7 | -2.37 | 1.288 | 102.8 | 0.701 | 3.189 | 328.9 | 537.3 | 0.954 | --- | 1.43 | 0.237 | 96.3 | 298.0 | -0.9 | 0.186 |
| 4-3360 | 4-4380 | 0.392 | 88.0 | 16.1 | -2.30 | 1.287 | 103.0 | 0.701 | 3.185 | 328.2 | 538.2 | 0.952 | --- | 1.37 | 0.236 | 94.2 | 297.0 | -1.0 | 0.186 |
| 4-3360 | 4-4400 | 0.395 | 88.8 | 16.4 | -2.23 | 1.287 | 103.3 | 0.702 | 3.184 | 327.6 | 539.1 | 0.949 | --- | 1.31 | 0.235 | 92.2 | 296.1 | -1.1 | 0.186 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3360 | 4-4420 | 0.399 | 89.6 | 16.6 | -2.16 | 1.287 | 103.6 | 0.703 | 3.183 | 326.9 | 539.9 | 0.947 | --- | 1.25 | 0.234 | 90.2 | 295.3 | -1.2 | 0.186 |
| 4-3360 | 4-4440 | 0.402 | 90.4 | 16.9 | -2.10 | 1.287 | 103.9 | 0.704 | 3.184 | 326.2 | 540.7 | 0.944 | 5.424 | 1.20 | 0.234 | 88.3 | 294.6 | -1.3 | 0.187 |
| 4-3360 | 4-4460 | 0.406 | 91.2 | 17.1 | -2.05 | 1.287 | 104.2 | 0.705 | 3.186 | 325.4 | 541.5 | 0.941 | 5.431 | 1.16 | 0.234 | 86.4 | 293.9 | -1.4 | 0.188 |
| 4-3360 | 4-4480 | 0.411 | 92.1 | 17.4 | -2.00 | 1.288 | 104.5 | 0.706 | 3.189 | 324.7 | 542.3 | 0.937 | 5.440 | 1.12 | 0.234 | 84.6 | 293.4 | -1.4 | 0.189 |
| 4-3360 | 4-4500 | 0.415 | 93.0 | 17.6 | -1.95 | 1.288 | 104.9 | 0.707 | 3.192 | 323.9 | 543.0 | 0.934 | 5.451 | 1.08 | 0.234 | 82.8 | 292.9 | -1.5 | 0.191 |
| 4-3360 | 4-4520 | 0.420 | 93.9 | 17.7 | -1.91 | 1.288 | 105.2 | 0.709 | 3.197 | 323.1 | 543.7 | 0.930 | 5.463 | 1.05 | 0.235 | 81.1 | 292.5 | -1.6 | 0.192 |
| 4-3360 | 4-4540 | 0.425 | 94.8 | 17.9 | -1.87 | 1.288 | 105.6 | 0.711 | 3.202 | 322.2 | 544.4 | 0.926 | 5.478 | 1.02 | 0.235 | 79.4 | 292.3 | -1.6 | 0.194 |
| 4-3360 | 4-4560 | 0.430 | 95.7 | 18.1 | -1.83 | 1.288 | 105.9 | 0.712 | 3.208 | 321.4 | 545.1 | 0.922 | 5.493 | 0.99 | 0.236 | 77.8 | 292.1 | -1.7 | 0.196 |
| 4-3360 | 4-4580 | 0.435 | 96.6 | 18.2 | -1.79 | 1.289 | 106.3 | 0.714 | 3.214 | 320.5 | 545.7 | 0.918 | 5.510 | 0.96 | 0.237 | 76.2 | 291.9 | -1.7 | 0.198 |
| 4-3360 | 4-4600 | 0.441 | 97.6 | 18.3 | -1.76 | 1.289 | 106.7 | 0.716 | 3.221 | 319.6 | 546.3 | 0.914 | 5.528 | 0.94 | 0.238 | 74.7 | 291.9 | -1.8 | 0.201 |
| 4-3360 | 4-4620 | 0.447 | 98.5 | 18.5 | -1.72 | 1.289 | 107.1 | 0.718 | 3.228 | 318.7 | 546.9 | 0.909 | 5.548 | 0.92 | 0.240 | 73.2 | 291.9 | -1.8 | 0.203 |
| 4-3360 | 4-4640 | 0.453 | 99.4 | 18.6 | -1.69 | 1.289 | 107.5 | 0.721 | 3.236 | 317.8 | 547.5 | 0.904 | 5.568 | 0.89 | 0.241 | 71.8 | 292.0 | -1.8 | 0.205 |
| 4-3360 | 4-4660 | 0.459 | 100.4 | 18.6 | -1.66 | 1.290 | 108.0 | 0.723 | 3.245 | 316.8 | 548.1 | 0.899 | 5.590 | 0.88 | 0.242 | 70.4 | 292.2 | -1.9 | 0.208 |
| 4-3360 | 4-4680 | 0.466 | 101.3 | 18.7 | -1.63 | 1.290 | 108.4 | 0.725 | 3.253 | 315.8 | 548.6 | 0.894 | 5.613 | 0.86 | 0.244 | 69.0 | 292.5 | -1.9 | 0.211 |
| 4-3360 | 4-4700 | 0.472 | 102.3 | 18.8 | -1.60 | 1.290 | 108.8 | 0.728 | 3.262 | 314.8 | 549.1 | 0.889 | 5.636 | 0.84 | 0.246 | 67.7 | 292.8 | -1.9 | 0.213 |
| 4-3360 | 4-4720 | 0.479 | 103.2 | 18.9 | -1.58 | 1.291 | 109.3 | 0.730 | 3.272 | 313.8 | 549.6 | 0.883 | 5.660 | 0.83 | 0.247 | 66.5 | 293.1 | -2.0 | 0.216 |
| 4-3360 | 4-4740 | 0.487 | 104.2 | 18.9 | -1.55 | 1.291 | 109.7 | 0.733 | 3.281 | 312.8 | 550.1 | 0.877 | 5.686 | 0.81 | 0.249 | 65.2 | 293.6 | -2.0 | 0.219 |
| 4-3360 | 4-4760 | 0.494 | 105.1 | 18.9 | -1.53 | 1.291 | 110.2 | 0.735 | 3.291 | 311.8 | 550.6 | 0.871 | 5.712 | 0.80 | 0.251 | 64.0 | 294.0 | -2.0 | 0.222 |
| 4-3360 | 4-4780 | 0.501 | 106.1 | 19.0 | -1.50 | 1.292 | 110.7 | 0.738 | 3.301 | 310.7 | 551.0 | 0.865 | 5.738 | 0.79 | 0.253 | 62.9 | 294.6 | -2.0 | 0.225 |
| 4-3360 | 4-4800 | 0.509 | 107.0 | 19.0 | -1.48 | 1.292 | 111.2 | 0.741 | 3.312 | 309.6 | 551.5 | 0.858 | 5.766 | 0.77 | 0.254 | 61.7 | 295.1 | -2.0 | 0.228 |
| 4-3360 | 4-4820 | 0.517 | 108.0 | 19.0 | -1.46 | 1.292 | 111.7 | 0.744 | 3.322 | 308.5 | 551.9 | 0.851 | 5.794 | 0.76 | 0.256 | 60.6 | 295.8 | -2.0 | 0.231 |
| 4-3360 | 4-4840 | 0.525 | 108.9 | 19.0 | -1.43 | 1.293 | 112.2 | 0.747 | 3.333 | 307.4 | 552.3 | 0.844 | 5.822 | 0.75 | 0.258 | 59.6 | 296.4 | -2.0 | 0.234 |
| 4-3360 | 4-4860 | 0.534 | 109.8 | 19.0 | -1.41 | 1.293 | 112.7 | 0.750 | 3.344 | 306.3 | 552.7 | 0.837 | 5.852 | 0.75 | 0.260 | 58.5 | 297.1 | -2.0 | 0.237 |
| 4-3360 | 4-4880 | 0.542 | 110.8 | 19.0 | -1.39 | 1.294 | 113.2 | 0.753 | 3.356 | 305.2 | 553.0 | 0.830 | 5.881 | 0.74 | 0.262 | 57.5 | 297.9 | -2.0 | 0.241 |
| 4-3360 | 4-4900 | 0.551 | 111.7 | 19.0 | -1.37 | 1.294 | 113.8 | 0.756 | 3.367 | 304.0 | 553.4 | 0.822 | 5.912 | 0.73 | 0.264 | 56.5 | 298.7 | -2.0 | 0.244 |
| 4-3360 | 4-4920 | 0.560 | 112.6 | 18.9 | -1.35 | 1.294 | 114.3 | 0.759 | 3.378 | 302.8 | 553.7 | 0.814 | 5.943 | 0.72 | 0.266 | 55.5 | 299.5 | -2.0 | 0.247 |
| 4-3360 | 4-4940 | 0.569 | 113.5 | 18.9 | -1.33 | 1.295 | 114.9 | 0.762 | 3.390 | 301.7 | 554.1 | 0.806 | 5.974 | 0.72 | 0.268 | 54.6 | 300.4 | -2.0 | 0.250 |
| 4-3360 | 4-4960 | 0.579 | 114.4 | 18.9 | -1.31 | 1.295 | 115.4 | 0.766 | 3.402 | 300.5 | 554.4 | 0.798 | 6.006 | 0.71 | 0.270 | 53.7 | 301.3 | -2.0 | 0.254 |
| 4-3370 | 4-3710 | 0.620 | 94.2 | 24.2 | 0.35 | 1.506 | 106.6 | 1.274 | -3.422 | 330.4 | 477.6 | 0.939 | --- | -1.58 | 0.822 | 160.1 | 320.2 | -2.5 | 0.768 |
| 4-3370 | 4-3730 | 0.579 | 92.8 | 24.5 | 0.44 | 1.475 | 105.5 | 1.191 | -4.966 | 331.6 | 480.4 | 0.947 | --- | -1.66 | 0.765 | 158.8 | 320.6 | -2.6 | 0.710 |
| 4-3370 | 4-3750 | 0.545 | 91.4 | 24.8 | 0.53 | 1.449 | 104.4 | 1.120 | -7.944 | 332.7 | 483.2 | 0.953 | --- | -1.74 | 0.713 | 157.6 | 320.9 | -2.7 | 0.659 |
| 4-3370 | 4-3770 | 0.514 | 90.0 | 25.2 | 0.64 | 1.427 | 103.5 | 1.060 | 15.951 | 333.8 | 485.9 | 0.959 | --- | -1.84 | 0.667 | 156.2 | 321.2 | -2.7 | 0.613 |
| 4-3370 | 4-3790 | 0.489 | 88.6 | 25.6 | 0.76 | 1.409 | 102.6 | 1.009 | 04.389 | 334.9 | 488.6 | 0.965 | --- | -1.94 | 0.626 | 154.9 | 321.4 | -2.8 | 0.571 |
| 4-3370 | 4-3810 | 0.466 | 87.2 | 26.0 | 0.89 | 1.393 | 101.9 | 0.966 | 28.246 | 335.9 | 491.3 | 0.969 | --- | -2.06 | 0.588 | 153.4 | 321.5 | -2.9 | 0.533 |
| 4-3370 | 4-3830 | 0.447 | 85.8 | 26.5 | 1.04 | 1.379 | 101.2 | 0.928 | 13.562 | 336.8 | 493.8 | 0.974 | --- | -2.20 | 0.554 | 151.9 | 321.6 | -3.1 | 0.499 |
| 4-3370 | 4-3850 | 0.430 | 84.5 | 27.1 | 1.21 | 1.367 | 100.5 | 0.896 | 9.388 | 337.7 | 496.3 | 0.977 | --- | -2.36 | 0.523 | 150.4 | 321.6 | -3.2 | 0.468 |
| 4-3370 | 4-3870 | 0.416 | 83.3 | 27.8 | 1.41 | 1.356 | 100.0 | 0.868 | 7.426 | 338.5 | 498.7 | 0.980 | --- | -2.54 | 0.495 | 148.7 | 321.6 | -3.4 | 0.440 |
| 4-3370 | 4-3890 | 0.404 | 82.1 | 28.7 | 1.64 | 1.347 | 99.5 | 0.844 | 6.293 | 339.2 | 501.1 | 0.983 | --- | -2.76 | 0.469 | 147.1 | 321.5 | -3.6 | 0.414 |
| 4-3370 | 4-3910 | 0.393 | 81.0 | 29.7 | 1.91 | 1.340 | 99.1 | 0.823 | 5.560 | 339.9 | 503.3 | 0.985 | --- | -3.02 | 0.446 | 145.3 | 321.2 | -3.9 | 0.390 |
| 4-3370 | 4-3930 | 0.384 | 80.0 | 30.9 | 2.24 | 1.333 | 98.7 | 0.805 | 5.050 | 340.4 | 505.5 | 0.987 | --- | -3.34 | 0.424 | 143.5 | 321.0 | -4.2 | 0.368 |
| 4-3370 | 4-3950 | 0.377 | 79.1 | 32.3 | 2.65 | 1.327 | 98.4 | 0.789 | 4.677 | 340.9 | 507.6 | 0.988 | --- | -3.73 | 0.405 | 141.7 | 320.6 | -4.6 | 0.348 |
| 4-3370 | 4-3970 | 0.372 | 78.2 | 34.2 | 3.16 | 1.322 | 98.1 | 0.775 | 4.395 | 341.4 | 509.7 | 0.990 | --- | -4.23 | 0.387 | 139.8 | 320.1 | -5.2 | 0.330 |
| 4-3370 | 4-3990 | 0.368 | 77.4 | 36.7 | 3.83 | 1.317 | 97.9 | 0.763 | 4.176 | 341.7 | 511.6 | 0.991 | --- | -4.89 | 0.371 | 137.8 | 319.6 | -5.9 | 0.314 |
| 4-3370 | 4-4010 | 0.367 | 76.6 | 40.0 | 4.75 | 1.313 | 97.7 | 0.752 | 4.002 | 342.0 | 513.5 | 0.992 | --- | -5.80 | 0.356 | 135.8 | 318.9 | -6.8 | 0.299 |
| 4-3370 | 4-4030 | 0.371 | 75.8 | 44.7 | 6.08 | 1.310 | 97.6 | 0.743 | 3.861 | 342.2 | 515.3 | 0.992 | --- | -7.11 | 0.342 | 133.7 | 318.2 | -8.2 | 0.286 |
| 4-3370 | 4-4050 | 0.383 | 75.0 | 51.6 | 8.17 | 1.307 | 97.4 | 0.735 | 3.747 | 342.4 | 517.0 | 0.993 | --- | -9.19 | 0.329 | 131.6 | 317.2 | -10.3 | 0.275 |
| 4-3370 | 4-4070 | 0.417 | 73.9 | 62.9 | 11.95 | 1.304 | 97.4 | 0.728 | 3.652 | 342.5 | 518.7 | 0.993 | --- | -12.96 | 0.318 | 129.4 | 316.0 | -14.0 | 0.269 |
| 4-3370 | 4-4090 | 0.530 | 74.5 | 82.7 | 20.71 | 1.302 | 97.3 | 0.722 | 3.573 | 342.6 | 520.3 | 0.994 | --- | -21.71 | 0.308 | 127.2 | 313.7 | -21.4 | 0.276 |
| 4-3370 | 4-4110 | 1.093 | 241.9 | 58.2 | 54.83 | 1.300 | 97.1 | 0.717 | 3.507 | 342.9 | 521.8 | 0.994 | --- | -55.82 | 0.298 | 125.0 | 303.4 | -34.3 | 0.385 |
| 4-3370 | 4-4130 | 0.876 | 109.1 | -60.2 | -41.99 | 1.298 | 97.5 | 0.713 | 3.452 | 342.0 | 523.3 | 0.992 | --- | 41.02 | 0.290 | 122.8 | 304.9 | 27.2 | 0.322 |
| 4-3370 | 4-4150 | 0.510 | 87.6 | -34.1 | -19.55 | 1.297 | 97.4 | 0.709 | 3.405 | 342.0 | 524.7 | 0.992 | --- | 18.59 | 0.282 | 120.5 | 309.9 | 16.1 | 0.245 |
| 4-3370 | 4-4170 | 0.419 | 83.8 | -19.2 | -12.74 | 1.295 | 97.5 | 0.705 | 3.366 | 341.9 | 526.1 | 0.992 | --- | 11.79 | 0.275 | 118.3 | 309.9 | 10.4 | 0.225 |
| 4-3370 | 4-4190 | 0.385 | 82.5 | -10.4 | -9.55 | 1.294 | 97.6 | 0.702 | 3.333 | 341.6 | 527.4 | 0.992 | --- | 8.61 | 0.269 | 116.0 | 309.2 | 7.3 | 0.215 |
| 4-3370 | 4-4210 | 0.368 | 82.0 | -4.6 | -7.71 | 1.293 | 97.7 | 0.700 | 3.305 | 341.4 | 528.7 | 0.991 | --- | 6.79 | 0.264 | 113.7 | 308.1 | 5.5 | 0.207 |
| 4-3370 | 4-4230 | 0.360 | 81.9 | -0.6 | -6.52 | 1.292 | 97.8 | 0.698 | 3.282 | 341.0 | 529.9 | 0.990 | --- | 5.60 | 0.259 | 111.4 | 306.9 | 4.3 | 0.202 |
| 4-3370 | 4-4250 | 0.355 | 82.1 | 2.3 | -5.68 | 1.292 | 97.9 | 0.697 | 3.262 | 340.7 | 531.0 | 0.989 | --- | 4.77 | 0.255 | 109.2 | 305.7 | 3.3 | 0.197 |
| 4-3370 | 4-4270 | 0.352 | 82.5 | 4.6 | -5.05 | 1.291 | 98.1 | 0.695 | 3.246 | 340.2 | 532.2 | 0.988 | --- | 4.16 | 0.251 | 107.0 | 304.5 | 2.6 | 0.193 |
| 4-3370 | 4-4290 | 0.350 | 82.9 | 6.4 | -4.57 | 1.290 | 98.3 | 0.695 | 3.233 | 339.8 | 533.2 | 0.987 | --- | 3.69 | 0.248 | 104.8 | 303.3 | 2.1 | 0.190 |
| 4-3370 | 4-4310 | 0.350 | 83.5 | 7.8 | -4.19 | 1.290 | 98.5 | 0.694 | 3.222 | 339.3 | 534.3 | 0.986 | --- | 3.32 | 0.245 | 102.6 | 302.1 | 1.6 | 0.188 |
| 4-3370 | 4-4330 | 0.350 | 84.2 | 9.1 | -3.88 | 1.290 | 98.7 | 0.694 | 3.214 | 338.8 | 535.3 | 0.985 | --- | 3.02 | 0.243 | 100.4 | 301.0 | 1.2 | 0.186 |
| 4-3370 | 4-4350 | 0.351 | 84.9 | 10.1 | -3.61 | 1.290 | 98.9 | 0.693 | 3.208 | 338.2 | 536.3 | 0.983 | --- | 2.77 | 0.241 | 98.3 | 299.9 | 0.9 | 0.185 |
| 4-3370 | 4-4370 | 0.352 | 85.7 | 11.0 | -3.39 | 1.289 | 99.1 | 0.694 | 3.203 | 337.6 | 537.2 | 0.982 | --- | 2.56 | 0.240 | 96.3 | 298.9 | 0.6 | 0.184 |
| 4-3370 | 4-4390 | 0.354 | 86.5 | 11.8 | -3.20 | 1.289 | 99.4 | 0.694 | 3.200 | 337.0 | 538.1 | 0.980 | --- | 2.38 | 0.239 | 94.2 | 297.9 | 0.4 | 0.183 |
| 4-3370 | 4-4410 | 0.356 | 87.3 | 12.5 | -3.04 | 1.289 | 99.7 | 0.694 | 3.199 | 336.3 | 539.0 | 0.978 | --- | 2.23 | 0.238 | 92.3 | 297.1 | 0.2 | 0.183 |
| 4-3370 | 4-4430 | 0.358 | 88.2 | 13.1 | -2.89 | 1.289 | 100.0 | 0.695 | 3.199 | 335.6 | 539.8 | 0.976 | --- | 2.09 | 0.237 | 90.4 | 296.2 | -0.0 | 0.184 |
| 4-3370 | 4-4450 | 0.361 | 89.2 | 13.7 | -2.77 | 1.289 | 100.2 | 0.696 | 3.200 | 334.9 | 540.7 | 0.974 | 5.426 | 1.98 | 0.237 | 88.5 | 295.5 | -0.2 | 0.184 |
| 4-3370 | 4-4470 | 0.364 | 90.2 | 14.2 | -2.65 | 1.289 | 100.6 | 0.697 | 3.202 | 334.2 | 541.5 | 0.971 | 5.432 | 1.88 | 0.237 | 86.7 | 294.9 | -0.4 | 0.185 |
| 4-3370 | 4-4490 | 0.367 | 91.2 | 14.6 | -2.55 | 1.289 | 100.9 | 0.698 | 3.205 | 333.4 | 542.2 | 0.969 | 5.441 | 1.78 | 0.237 | 84.9 | 294.4 | -0.5 | 0.186 |
| 4-3370 | 4-4510 | 0.370 | 92.2 | 15.0 | -2.45 | 1.290 | 101.2 | 0.699 | 3.209 | 332.7 | 543.0 | 0.966 | 5.451 | 1.70 | 0.237 | 83.2 | 293.9 | -0.7 | 0.187 |
| 4-3370 | 4-4530 | 0.374 | 93.2 | 15.4 | -2.37 | 1.290 | 101.5 | 0.700 | 3.213 | 331.9 | 543.7 | 0.964 | 5.463 | 1.63 | 0.238 | 81.5 | 293.5 | -0.8 | 0.189 |
| 4-3370 | 4-4550 | 0.378 | 94.3 | 15.7 | -2.29 | 1.290 | 101.9 | 0.702 | 3.219 | 331.0 | 544.4 | 0.961 | 5.476 | 1.56 | 0.239 | 79.9 | 293.2 | -0.9 | 0.190 |
| 4-3370 | 4-4570 | 0.382 | 95.3 | 16.0 | -2.22 | 1.290 | 102.3 | 0.703 | 3.225 | 330.2 | 545.0 | 0.958 | 5.491 | 1.50 | 0.240 | 78.4 | 293.0 | -1.0 | 0.192 |
| 4-3370 | 4-4590 | 0.387 | 96.4 | 16.3 | -2.15 | 1.290 | 102.6 | 0.705 | 3.231 | 329.3 | 545.7 | 0.954 | 5.508 | 1.45 | 0.241 | 76.8 | 292.9 | -1.1 | 0.194 |
| 4-3370 | 4-4610 | 0.391 | 97.5 | 16.5 | -2.09 | 1.291 | 103.0 | 0.706 | 3.238 | 328.4 | 546.3 | 0.951 | 5.525 | 1.40 | 0.242 | 75.4 | 292.9 | -1.2 | 0.196 |
| 4-3370 | 4-4630 | 0.396 | 98.6 | 16.8 | -2.03 | 1.291 | 103.4 | 0.708 | 3.246 | 327.5 | 546.9 | 0.947 | 5.544 | 1.35 | 0.243 | 74.0 | 292.9 | -1.2 | 0.198 |
| 4-3370 | 4-4650 | 0.401 | 99.7 | 16.9 | -1.97 | 1.291 | 103.8 | 0.710 | 3.254 | 326.6 | 547.5 | 0.943 | 5.564 | 1.31 | 0.244 | 72.6 | 293.0 | -1.3 | 0.201 |
| 4-3370 | 4-4670 | 0.407 | 100.8 | 17.1 | -1.92 | 1.292 | 104.2 | 0.712 | 3.262 | 325.7 | 548.1 | 0.940 | 5.584 | 1.27 | 0.246 | 71.3 | 293.2 | -1.4 | 0.203 |
| 4-3370 | 4-4690 | 0.412 | 101.9 | 17.3 | -1.87 | 1.292 | 104.6 | 0.714 | 3.271 | 324.7 | 548.6 | 0.935 | 5.606 | 1.24 | 0.247 | 70.0 | 293.4 | -1.4 | 0.206 |
| 4-3370 | 4-4710 | 0.418 | 103.0 | 17.4 | -1.83 | 1.292 | 105.0 | 0.716 | 3.280 | 323.7 | 549.2 | 0.931 | 5.629 | 1.20 | 0.249 | 68.7 | 293.7 | -1.5 | 0.208 |
| 4-3370 | 4-4730 | 0.424 | 104.1 | 17.5 | -1.79 | 1.293 | 105.5 | 0.718 | 3.289 | 322.7 | 549.7 | 0.926 | 5.652 | 1.17 | 0.250 | 67.5 | 294.0 | -1.5 | 0.211 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3370 | 4-4750 | 0.430 | 105.2 | 17.6 | -1.74 | 1.293 | 105.9 | 0.721 | 3.299 | 321.7 | 550.2 | 0.922 | 5.676 | 1.15 | 0.252 | 66.3 | 294.4 | -1.6 | 0.213 |
| 4-3370 | 4-4770 | 0.437 | 106.3 | 17.7 | -1.70 | 1.293 | 106.4 | 0.723 | 3.309 | 320.7 | 550.7 | 0.917 | 5.701 | 1.12 | 0.254 | 65.2 | 294.9 | -1.6 | 0.216 |
| 4-3370 | 4-4790 | 0.443 | 107.4 | 17.8 | -1.67 | 1.294 | 106.8 | 0.725 | 3.319 | 319.7 | 551.2 | 0.912 | 5.727 | 1.10 | 0.256 | 64.1 | 295.4 | -1.6 | 0.219 |
| 4-3370 | 4-4810 | 0.450 | 108.5 | 17.8 | -1.63 | 1.294 | 107.3 | 0.728 | 3.330 | 318.6 | 551.6 | 0.906 | 5.753 | 1.08 | 0.258 | 63.0 | 296.0 | -1.6 | 0.222 |
| 4-3370 | 4-4830 | 0.457 | 109.6 | 17.9 | -1.60 | 1.294 | 107.8 | 0.730 | 3.340 | 317.5 | 552.0 | 0.901 | 5.780 | 1.05 | 0.259 | 61.9 | 296.6 | -1.7 | 0.225 |
| 4-3370 | 4-4850 | 0.464 | 110.7 | 17.9 | -1.56 | 1.295 | 108.3 | 0.733 | 3.351 | 316.5 | 552.5 | 0.895 | 5.807 | 1.04 | 0.261 | 60.9 | 297.2 | -1.7 | 0.227 |
| 4-3370 | 4-4870 | 0.472 | 111.8 | 17.9 | -1.53 | 1.295 | 108.7 | 0.736 | 3.362 | 315.4 | 552.9 | 0.889 | 5.836 | 1.02 | 0.263 | 59.9 | 297.9 | -1.7 | 0.230 |
| 4-3370 | 4-4890 | 0.480 | 112.8 | 17.9 | -1.50 | 1.295 | 109.2 | 0.738 | 3.374 | 314.2 | 553.3 | 0.883 | 5.864 | 1.00 | 0.265 | 58.9 | 298.6 | -1.7 | 0.233 |
| 4-3370 | 4-4910 | 0.487 | 113.9 | 17.9 | -1.47 | 1.296 | 109.8 | 0.741 | 3.385 | 313.1 | 553.7 | 0.876 | 5.893 | 0.99 | 0.267 | 58.0 | 299.4 | -1.7 | 0.236 |
| 4-3370 | 4-4930 | 0.496 | 114.9 | 17.9 | -1.44 | 1.296 | 110.3 | 0.744 | 3.396 | 312.0 | 554.0 | 0.870 | 5.923 | 0.97 | 0.269 | 57.1 | 300.2 | -1.7 | 0.239 |
| 4-3370 | 4-4950 | 0.504 | 116.0 | 17.9 | -1.41 | 1.297 | 110.8 | 0.747 | 3.408 | 310.8 | 554.4 | 0.863 | 5.953 | 0.96 | 0.271 | 56.2 | 301.0 | -1.7 | 0.242 |
| 4-3370 | 4-4970 | 0.512 | 117.0 | 17.8 | -1.38 | 1.297 | 111.3 | 0.750 | 3.420 | 309.6 | 554.7 | 0.856 | 5.984 | 0.95 | 0.273 | 55.3 | 301.9 | -1.7 | 0.246 |
| 4-3380 | 4-3700 | 0.608 | 94.6 | 24.0 | 0.25 | 1.536 | 103.1 | 1.369 | -2.619 | 337.4 | 474.2 | 0.966 | --- | -1.47 | 0.875 | 160.6 | 320.8 | -2.5 | 0.818 |
| 4-3380 | 4-3720 | 0.564 | 92.8 | 24.2 | 0.31 | 1.501 | 101.9 | 1.267 | -3.641 | 338.7 | 477.1 | 0.972 | --- | -1.52 | 0.811 | 159.5 | 321.2 | -2.5 | 0.754 |
| 4-3380 | 4-3740 | 0.527 | 91.0 | 24.5 | 0.38 | 1.471 | 100.9 | 1.182 | -5.364 | 340.0 | 480.0 | 0.978 | --- | -1.57 | 0.755 | 158.2 | 321.5 | -2.5 | 0.698 |
| 4-3380 | 4-3760 | 0.496 | 89.2 | 24.7 | 0.45 | 1.446 | 99.9 | 1.111 | -8.837 | 341.2 | 482.9 | 0.983 | --- | -1.63 | 0.704 | 157.0 | 321.8 | -2.6 | 0.647 |
| 4-3380 | 4-3780 | 0.469 | 87.3 | 25.0 | 0.53 | 1.425 | 99.0 | 1.05 | 119.293 | 342.4 | 485.7 | 0.987 | --- | -1.69 | 0.659 | 155.6 | 322.0 | -2.7 | 0.602 |
| 4-3380 | 4-3800 | 0.445 | 85.5 | 25.3 | 0.62 | 1.407 | 98.2 | 1.00 | 083.815 | 343.5 | 488.5 | 0.990 | --- | -1.76 | 0.618 | 154.2 | 322.2 | -2.7 | 0.561 |
| 4-3380 | 4-3820 | 0.426 | 83.7 | 25.8 | 0.71 | 1.391 | 97.5 | 0.95 | 723.018 | 344.6 | 491.2 | 0.993 | --- | -1.84 | 0.581 | 152.8 | 322.3 | -2.8 | 0.524 |
| 4-3380 | 4-3840 | 0.409 | 82.0 | 25.9 | 0.81 | 1.378 | 96.9 | 0.92 | 012.397 | 345.6 | 493.8 | 0.996 | --- | -1.92 | 0.547 | 151.3 | 322.4 | -2.9 | 0.490 |
| 4-3380 | 4-3860 | 0.394 | 80.4 | 26.3 | 0.91 | 1.366 | 96.3 | 0.888 | 8.890 | 346.5 | 496.3 | 0.998 | --- | -2.01 | 0.517 | 149.7 | 322.3 | -3.0 | 0.460 |
| 4-3380 | 4-3880 | 0.382 | 78.9 | 26.7 | 1.03 | 1.356 | 95.8 | 0.860 | 7.152 | 347.4 | 498.8 | 1.000 | --- | -2.12 | 0.489 | 148.1 | 322.3 | -3.1 | 0.432 |
| 4-3380 | 4-3900 | 0.371 | 77.5 | 27.2 | 1.16 | 1.347 | 95.4 | 0.836 | 6.122 | 348.1 | 501.2 | 1.001 | --- | -2.23 | 0.464 | 146.4 | 322.1 | -3.3 | 0.406 |
| 4-3380 | 4-3920 | 0.362 | 76.1 | 27.7 | 1.31 | 1.340 | 95.0 | 0.816 | 5.444 | 348.8 | 503.5 | 1.002 | --- | -2.36 | 0.441 | 144.7 | 321.8 | -3.5 | 0.383 |
| 4-3380 | 4-3940 | 0.354 | 75.0 | 28.3 | 1.48 | 1.333 | 94.7 | 0.798 | 4.968 | 349.4 | 505.7 | 1.003 | --- | -2.51 | 0.420 | 142.9 | 321.5 | -3.7 | 0.362 |
| 4-3380 | 4-3960 | 0.348 | 73.9 | 29.0 | 1.66 | 1.327 | 94.4 | 0.783 | 4.617 | 349.9 | 507.8 | 1.004 | --- | -2.69 | 0.401 | 141.0 | 321.1 | -3.9 | 0.342 |
| 4-3380 | 4-3980 | 0.342 | 72.9 | 29.8 | 1.88 | 1.322 | 94.2 | 0.769 | 4.350 | 350.4 | 509.9 | 1.005 | --- | -2.88 | 0.384 | 139.1 | 320.6 | -4.2 | 0.324 |
| 4-3380 | 4-4000 | 0.338 | 72.1 | 30.8 | 2.12 | 1.318 | 94.0 | 0.757 | 4.142 | 350.7 | 511.8 | 1.005 | --- | -3.12 | 0.367 | 137.1 | 320.1 | -4.5 | 0.308 |
| 4-3380 | 4-4020 | 0.334 | 71.3 | 31.9 | 2.41 | 1.314 | 93.8 | 0.747 | 3.976 | 351.0 | 513.7 | 1.006 | --- | -3.39 | 0.353 | 135.1 | 319.4 | -4.9 | 0.293 |
| 4-3380 | 4-4040 | 0.332 | 70.7 | 33.3 | 2.76 | 1.311 | 93.7 | 0.738 | 3.841 | 351.3 | 515.5 | 1.006 | --- | -3.72 | 0.340 | 133.0 | 318.7 | -5.3 | 0.280 |
| 4-3380 | 4-4060 | 0.330 | 70.1 | 35.0 | 3.18 | 1.308 | 93.6 | 0.730 | 3.731 | 351.4 | 517.2 | 1.006 | --- | -4.13 | 0.327 | 130.9 | 317.9 | -5.9 | 0.267 |
| 4-3380 | 4-4080 | 0.329 | 69.6 | 37.0 | 3.70 | 1.305 | 93.6 | 0.724 | 3.641 | 351.5 | 518.9 | 1.006 | --- | -4.64 | 0.316 | 128.7 | 317.0 | -6.6 | 0.256 |
| 4-3380 | 4-4100 | 0.330 | 69.1 | 39.7 | 4.36 | 1.303 | 93.5 | 0.718 | 3.565 | 351.5 | 520.5 | 1.006 | --- | -5.29 | 0.306 | 126.5 | 316.0 | -7.4 | 0.246 |
| 4-3380 | 4-4120 | 0.333 | 68.5 | 43.1 | 5.24 | 1.301 | 93.5 | 0.713 | 3.502 | 351.5 | 522.0 | 1.006 | --- | -6.15 | 0.297 | 124.3 | 314.9 | -8.5 | 0.238 |
| 4-3380 | 4-4140 | 0.340 | 67.8 | 47.6 | 6.46 | 1.299 | 93.6 | 0.708 | 3.449 | 351.4 | 523.5 | 1.006 | --- | -7.36 | 0.289 | 122.1 | 313.8 | -10.0 | 0.231 |
| 4-3380 | 4-4160 | 0.354 | 66.7 | 53.9 | 8.27 | 1.298 | 93.6 | 0.704 | 3.404 | 351.3 | 524.9 | 1.006 | --- | -9.15 | 0.282 | 119.9 | 312.6 | -12.2 | 0.225 |
| 4-3380 | 4-4180 | 0.383 | 64.3 | 63.2 | 11.22 | 1.297 | 93.7 | 0.701 | 3.366 | 351.1 | 526.2 | 1.006 | --- | -12.09 | 0.275 | 117.6 | 311.2 | -15.6 | 0.223 |
| 4-3380 | 4-4200 | 0.455 | 54.7 | 77.3 | 16.86 | 1.296 | 93.8 | 0.698 | 3.335 | 350.9 | 527.5 | 1.006 | --- | -17.72 | 0.269 | 115.3 | 309.4 | -21.2 | 0.229 |
| 4-3380 | 4-4220 | 0.685 | 266.7 | 78.0 | 31.29 | 1.295 | 93.8 | 0.696 | 3.308 | 350.7 | 528.8 | 1.006 | --- | -32.13 | 0.264 | 113.1 | 305.9 | -31.3 | 0.269 |
| 4-3380 | 4-4240 | 1.572 | 247.4 | 34.2 | 85.95 | 1.294 | 93.7 | 0.694 | 3.286 | 351.0 | 530.0 | 1.006 | --- | -86.77 | 0.259 | 110.8 | 295.9 | -32.9 | 0.482 |
| 4-3380 | 4-4260 | 0.746 | 96.1 | -58.6 | -34.92 | 1.293 | 94.4 | 0.693 | 3.267 | 349.3 | 531.2 | 1.004 | --- | 34.11 | 0.255 | 108.7 | 301.9 | 27.7 | 0.269 |
| 4-3380 | 4-4280 | 0.489 | 85.0 | -36.7 | -19.20 | 1.293 | 94.5 | 0.691 | 3.252 | 349.1 | 532.3 | 1.003 | --- | 18.40 | 0.252 | 106.5 | 303.5 | 18.2 | 0.216 |
| 4-3380 | 4-4300 | 0.407 | 82.5 | -23.3 | -13.23 | 1.292 | 94.6 | 0.690 | 3.240 | 348.7 | 533.3 | 1.003 | --- | 12.45 | 0.249 | 104.3 | 303.1 | 12.5 | 0.200 |
| 4-3380 | 4-4320 | 0.372 | 81.7 | -14.5 | -10.16 | 1.292 | 94.8 | 0.690 | 3.230 | 348.2 | 534.4 | 1.002 | --- | 9.39 | 0.246 | 102.1 | 302.2 | 9.2 | 0.192 |
| 4-3380 | 4-4340 | 0.354 | 81.7 | -8.5 | -8.29 | 1.292 | 95.0 | 0.689 | 3.222 | 347.7 | 536.4 | 1.001 | --- | 7.53 | 0.244 | 100.0 | 301.3 | 7.0 | 0.188 |
| 4-3380 | 4-4360 | 0.344 | 82.0 | -4.1 | -7.04 | 1.291 | 95.3 | 0.689 | 3.217 | 347.1 | 536.4 | 1.001 | --- | 6.30 | 0.243 | 98.0 | 300.3 | 5.5 | 0.186 |
| 4-3380 | 4-4380 | 0.339 | 82.6 | -0.7 | -6.14 | 1.291 | 95.5 | 0.689 | 3.213 | 346.5 | 537.3 | 1.000 | --- | 5.41 | 0.241 | 96.0 | 299.3 | 4.4 | 0.184 |
| 4-3380 | 4-4400 | 0.336 | 83.3 | 1.9 | -5.46 | 1.291 | 95.8 | 0.689 | 3.210 | 345.9 | 538.2 | 0.998 | --- | 4.75 | 0.240 | 94.0 | 298.4 | 3.5 | 0.183 |
| 4-3380 | 4-4420 | 0.334 | 84.1 | 4.0 | -4.93 | 1.291 | 96.0 | 0.689 | 3.209 | 345.2 | 539.1 | 0.997 | --- | 4.23 | 0.240 | 92.1 | 297.6 | 2.8 | 0.182 |
| 4-3380 | 4-4440 | 0.333 | 85.0 | 5.7 | -4.51 | 1.291 | 96.3 | 0.690 | 3.210 | 344.5 | 539.9 | 0.996 | --- | 3.82 | 0.239 | 90.2 | 296.8 | 2.3 | 0.182 |
| 4-3380 | 4-4460 | 0.334 | 86.0 | 7.2 | -4.16 | 1.291 | 96.6 | 0.690 | 3.211 | 343.8 | 540.7 | 0.995 | 5.428 | 3.48 | 0.239 | 88.4 | 296.2 | 1.8 | 0.183 |
| 4-3380 | 4-4480 | 0.334 | 87.1 | 8.4 | -3.87 | 1.291 | 96.9 | 0.691 | 3.214 | 343.1 | 541.5 | 0.993 | 5.434 | 3.20 | 0.239 | 86.6 | 295.6 | 1.4 | 0.183 |
| 4-3380 | 4-4500 | 0.336 | 88.2 | 9.5 | -3.62 | 1.291 | 97.2 | 0.692 | 3.217 | 342.3 | 542.3 | 0.991 | 5.442 | 2.97 | 0.239 | 84.9 | 295.0 | 1.1 | 0.184 |
| 4-3380 | 4-4520 | 0.337 | 89.3 | 10.4 | -3.40 | 1.292 | 97.5 | 0.693 | 3.221 | 341.6 | 543.0 | 0.990 | 5.452 | 2.77 | 0.240 | 83.3 | 294.6 | 0.8 | 0.185 |
| 4-3380 | 4-4540 | 0.340 | 90.5 | 11.3 | -3.21 | 1.292 | 97.9 | 0.694 | 3.226 | 340.8 | 543.7 | 0.988 | 5.464 | 2.59 | 0.240 | 81.7 | 294.2 | 0.5 | 0.186 |
| 4-3380 | 4-4560 | 0.342 | 91.7 | 12.0 | -3.05 | 1.292 | 98.2 | 0.695 | 3.232 | 339.9 | 544.4 | 0.986 | 5.477 | 2.44 | 0.241 | 80.1 | 294.0 | 0.3 | 0.188 |
| 4-3380 | 4-4580 | 0.345 | 92.9 | 12.6 | -2.90 | 1.292 | 98.6 | 0.696 | 3.238 | 339.1 | 545.1 | 0.984 | 5.492 | 2.31 | 0.242 | 78.6 | 293.8 | 0.1 | 0.190 |
| 4-3380 | 4-4600 | 0.348 | 94.2 | 13.2 | -2.77 | 1.292 | 98.9 | 0.698 | 3.245 | 338.2 | 545.7 | 0.981 | 5.508 | 2.19 | 0.243 | 77.2 | 293.7 | -0.1 | 0.191 |
| 4-3380 | 4-4620 | 0.351 | 95.4 | 13.7 | -2.65 | 1.293 | 99.3 | 0.699 | 3.252 | 337.3 | 546.4 | 0.979 | 5.525 | 2.08 | 0.244 | 75.7 | 293.6 | -0.3 | 0.193 |
| 4-3380 | 4-4640 | 0.355 | 96.7 | 14.1 | -2.54 | 1.293 | 99.7 | 0.700 | 3.260 | 336.4 | 547.0 | 0.976 | 5.543 | 1.99 | 0.246 | 74.4 | 293.7 | -0.4 | 0.195 |
| 4-3380 | 4-4660 | 0.359 | 98.0 | 14.5 | -2.44 | 1.293 | 100.1 | 0.702 | 3.268 | 335.5 | 547.6 | 0.973 | 5.562 | 1.90 | 0.247 | 73.1 | 293.8 | -0.5 | 0.197 |
| 4-3380 | 4-4680 | 0.363 | 99.3 | 14.9 | -2.35 | 1.294 | 100.5 | 0.704 | 3.276 | 334.6 | 548.2 | 0.971 | 5.582 | 1.83 | 0.248 | 71.8 | 293.9 | -0.6 | 0.200 |
| 4-3380 | 4-4700 | 0.367 | 100.6 | 15.2 | -2.27 | 1.294 | 100.9 | 0.706 | 3.285 | 333.6 | 548.7 | 0.967 | 5.603 | 1.76 | 0.250 | 70.5 | 294.2 | -0.7 | 0.202 |
| 4-3380 | 4-4720 | 0.372 | 101.9 | 15.5 | -2.19 | 1.294 | 101.3 | 0.707 | 3.295 | 332.7 | 549.3 | 0.964 | 5.625 | 1.70 | 0.251 | 69.3 | 294.5 | -0.8 | 0.204 |
| 4-3380 | 4-4740 | 0.377 | 103.2 | 15.7 | -2.12 | 1.295 | 101.7 | 0.709 | 3.304 | 331.7 | 549.8 | 0.961 | 5.648 | 1.64 | 0.253 | 68.2 | 294.8 | -0.9 | 0.207 |
| 4-3380 | 4-4760 | 0.382 | 104.5 | 15.9 | -2.05 | 1.295 | 102.1 | 0.711 | 3.314 | 330.7 | 550.3 | 0.957 | 5.671 | 1.59 | 0.255 | 67.0 | 295.2 | -1.0 | 0.209 |
| 4-3380 | 4-4780 | 0.387 | 105.8 | 16.1 | -1.98 | 1.295 | 102.6 | 0.713 | 3.324 | 329.7 | 550.8 | 0.953 | 5.695 | 1.54 | 0.257 | 65.9 | 295.7 | -1.1 | 0.212 |
| 4-3380 | 4-4800 | 0.392 | 107.1 | 16.3 | -1.92 | 1.296 | 103.0 | 0.715 | 3.335 | 328.7 | 551.3 | 0.949 | 5.720 | 1.49 | 0.258 | 64.9 | 296.2 | -1.1 | 0.214 |
| 4-3380 | 4-4820 | 0.398 | 108.4 | 16.4 | -1.87 | 1.296 | 103.5 | 0.717 | 3.345 | 327.6 | 551.8 | 0.945 | 5.745 | 1.45 | 0.260 | 63.8 | 296.7 | -1.2 | 0.217 |
| 4-3380 | 4-4840 | 0.404 | 109.6 | 16.5 | -1.81 | 1.296 | 103.9 | 0.720 | 3.356 | 326.6 | 552.2 | 0.941 | 5.771 | 1.41 | 0.262 | 62.8 | 297.3 | -1.2 | 0.219 |
| 4-3380 | 4-4860 | 0.410 | 110.9 | 16.6 | -1.76 | 1.297 | 104.4 | 0.722 | 3.367 | 325.5 | 552.7 | 0.936 | 5.798 | 1.38 | 0.264 | 61.9 | 297.9 | -1.3 | 0.222 |
| 4-3380 | 4-4880 | 0.417 | 112.2 | 16.7 | -1.72 | 1.297 | 104.9 | 0.724 | 3.378 | 324.4 | 553.1 | 0.932 | 5.825 | 1.35 | 0.266 | 60.9 | 298.6 | -1.3 | 0.225 |
| 4-3380 | 4-4900 | 0.423 | 113.4 | 16.7 | -1.67 | 1.297 | 105.3 | 0.727 | 3.389 | 323.3 | 553.5 | 0.927 | 5.852 | 1.32 | 0.268 | 60.0 | 299.3 | -1.3 | 0.228 |
| 4-3380 | 4-4920 | 0.430 | 114.6 | 16.7 | -1.62 | 1.298 | 105.8 | 0.729 | 3.401 | 322.2 | 553.9 | 0.922 | 5.880 | 1.29 | 0.270 | 59.1 | 300.1 | -1.4 | 0.230 |
| 4-3380 | 4-4940 | 0.437 | 115.9 | 16.7 | -1.58 | 1.298 | 106.3 | 0.732 | 3.413 | 321.1 | 554.3 | 0.916 | 5.909 | 1.26 | 0.272 | 58.2 | 300.9 | -1.4 | 0.233 |
| 4-3380 | 4-4960 | 0.444 | 117.1 | 16.7 | -1.54 | 1.299 | 106.8 | 0.734 | 3.424 | 319.9 | 554.7 | 0.911 | 5.938 | 1.24 | 0.274 | 57.3 | 301.7 | -1.4 | 0.236 |
| 4-3380 | 4-4980 | 0.452 | 118.3 | 16.7 | -1.50 | 1.299 | 107.3 | 0.737 | 3.436 | 318.8 | 555.0 | 0.905 | 5.968 | 1.22 | 0.276 | 56.5 | 302.6 | -1.4 | 0.239 |
| 4-3390 | 4-3690 | 0.606 | 93.4 | 23.9 | 0.19 | 1.570 | 99.1 | 1.477 | -2.072 | 344.8 | 471.0 | 0.988 | --- | -1.41 | 0.931 | 161.2 | 321.3 | -2.4 | 0.871 |
| 4-3390 | 4-3710 | 0.559 | 91.2 | 24.1 | 0.24 | 1.529 | 97.9 | 1.353 | -2.809 | 346.2 | 474.1 | 0.992 | --- | -1.44 | 0.860 | 160.1 | 321.7 | -2.4 | 0.801 |
| 4-3390 | 4-3730 | 0.520 | 89.0 | 24.3 | 0.29 | 1.495 | 96.9 | 1.251 | -3.958 | 347.6 | 477.1 | 0.996 | --- | -1.47 | 0.797 | 158.9 | 322.0 | -2.5 | 0.738 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3390 | 4-3750 | 0.487 | 86.6 | 24.5 | 0.35 | 1.466 | 96.0 | 1.167 | -5.968 | 348.9 | 480.1 | 0.999 | --- | -1.51 | 0.742 | 157.7 | 322.3 | -2.5 | 0.683 |
| 4-3390 | 4-3770 | 0.460 | 84.3 | 24.6 | 0.41 | 1.442 | 95.1 | 1.097 | 10.318 | 350.3 | 483.1 | 1.001 | --- | -1.55 | 0.692 | 156.4 | 322.5 | -2.5 | 0.634 |
| 4-3390 | 4-3790 | 0.436 | 82.0 | 24.8 | 0.47 | 1.422 | 94.3 | 1.038 | 26.459 | 351.5 | 486.0 | 1.003 | --- | -1.59 | 0.648 | 155.1 | 322.7 | -2.6 | 0.589 |
| 4-3390 | 4-3810 | 0.417 | 79.8 | 24.9 | 0.54 | 1.404 | 93.6 | 0.988 | 83.769 | 352.7 | 488.8 | 1.005 | --- | -1.64 | 0.608 | 153.7 | 322.8 | -2.7 | 0.549 |
| 4-3390 | 4-3830 | 0.400 | 77.7 | 25.1 | 0.60 | 1.389 | 93.0 | 0.946 | 18.483 | 353.8 | 491.6 | 1.006 | --- | -1.69 | 0.571 | 152.2 | 322.8 | -2.7 | 0.513 |
| 4-3390 | 4-3850 | 0.386 | 75.7 | 25.2 | 0.68 | 1.376 | 92.4 | 0.909 | 11.112 | 354.9 | 494.3 | 1.007 | --- | -1.74 | 0.539 | 150.7 | 322.8 | -2.8 | 0.480 |
| 4-3390 | 4-3870 | 0.374 | 73.8 | 25.4 | 0.76 | 1.365 | 91.9 | 0.878 | 8.287 | 355.9 | 496.8 | 1.007 | --- | -1.80 | 0.509 | 149.1 | 322.8 | -2.9 | 0.451 |
| 4-3390 | 4-3890 | 0.364 | 72.0 | 25.6 | 0.84 | 1.355 | 91.5 | 0.852 | 6.802 | 356.7 | 499.3 | 1.008 | --- | -1.87 | 0.482 | 147.5 | 322.6 | -3.0 | 0.423 |
| 4-3390 | 4-3910 | 0.356 | 70.4 | 25.8 | 0.93 | 1.347 | 91.1 | 0.829 | 5.893 | 357.5 | 501.7 | 1.008 | --- | -1.94 | 0.457 | 145.8 | 322.4 | -3.1 | 0.398 |
| 4-3390 | 4-3930 | 0.348 | 69.0 | 26.0 | 1.03 | 1.339 | 90.8 | 0.809 | 5.284 | 358.2 | 504.1 | 1.008 | --- | -2.02 | 0.435 | 144.0 | 322.1 | -3.3 | 0.376 |
| 4-3390 | 4-3950 | 0.342 | 67.7 | 26.3 | 1.13 | 1.333 | 90.5 | 0.792 | 4.849 | 358.9 | 506.3 | 1.009 | --- | -2.11 | 0.414 | 142.2 | 321.8 | -3.4 | 0.355 |
| 4-3390 | 4-3970 | 0.337 | 66.6 | 26.7 | 1.25 | 1.327 | 90.3 | 0.777 | 4.527 | 359.4 | 508.4 | 1.009 | --- | -2.21 | 0.395 | 140.3 | 321.3 | -3.6 | 0.336 |
| 4-3390 | 4-3990 | 0.333 | 65.6 | 27.1 | 1.37 | 1.323 | 90.1 | 0.764 | 4.279 | 359.8 | 510.4 | 1.009 | --- | -2.31 | 0.378 | 138.4 | 320.8 | -3.8 | 0.318 |
| 4-3390 | 4-4010 | 0.329 | 64.8 | 27.6 | 1.51 | 1.318 | 89.9 | 0.753 | 4.085 | 0.2 | 152.4 | --- | --- | -2.43 | 0.363 | 136.4 | 320.2 | -4.0 | 0.302 |
| 4-3390 | 4-4030 | 0.326 | 64.0 | 28.1 | 1.66 | 1.315 | 89.8 | 0.743 | 3.930 | 0.5 | 154.3 | --- | --- | -2.57 | 0.348 | 134.3 | 319.5 | -4.2 | 0.288 |
| 4-3390 | 4-4050 | 0.323 | 63.5 | 28.8 | 1.83 | 1.312 | 89.7 | 0.735 | 3.804 | 0.7 | 156.1 | --- | --- | -2.72 | 0.335 | 132.2 | 318.7 | -4.5 | 0.275 |
| 4-3390 | 4-4070 | 0.321 | 63.0 | 29.6 | 2.02 | 1.309 | 89.7 | 0.727 | 3.700 | 0.8 | 157.8 | --- | --- | -2.90 | 0.324 | 130.1 | 317.9 | -4.8 | 0.263 |
| 4-3390 | 4-4090 | 0.319 | 62.6 | 30.4 | 2.24 | 1.306 | 89.6 | 0.721 | 3.615 | 0.9 | 159.4 | --- | --- | -3.10 | 0.313 | 128.0 | 316.9 | -5.1 | 0.252 |
| 4-3390 | 4-4110 | 0.317 | 62.4 | 31.5 | 2.49 | 1.304 | 89.6 | 0.715 | 3.544 | 0.9 | 161.0 | --- | --- | -3.34 | 0.303 | 125.8 | 316.0 | -5.5 | 0.242 |
| 4-3390 | 4-4130 | 0.317 | 62.2 | 32.7 | 2.78 | 1.302 | 89.7 | 0.711 | 3.484 | 0.8 | 162.5 | --- | --- | -3.61 | 0.294 | 123.5 | 314.9 | -6.0 | 0.233 |
| 4-3390 | 4-4150 | 0.316 | 62.1 | 34.2 | 3.13 | 1.301 | 89.7 | 0.706 | 3.434 | 0.7 | 163.9 | --- | --- | -3.94 | 0.287 | 121.3 | 313.8 | -6.5 | 0.225 |
| 4-3390 | 4-4170 | 0.316 | 62.0 | 35.9 | 3.53 | 1.299 | 89.8 | 0.703 | 3.392 | 0.5 | 165.3 | --- | --- | -4.33 | 0.280 | 119.1 | 312.6 | -7.1 | 0.218 |
| 4-3390 | 4-4190 | 0.317 | 62.0 | 38.0 | 4.03 | 1.298 | 89.9 | 0.700 | 3.357 | 0.3 | 166.7 | --- | --- | -4.81 | 0.273 | 116.8 | 311.4 | -7.8 | 0.212 |
| 4-3390 | 4-4210 | 0.320 | 61.9 | 40.5 | 4.66 | 1.297 | 90.0 | 0.697 | 3.327 | 0.0 | 167.9 | --- | --- | -5.42 | 0.268 | 114.6 | 310.2 | -8.7 | 0.207 |
| 4-3390 | 4-4230 | 0.324 | 61.7 | 43.7 | 5.46 | 1.296 | 90.1 | 0.695 | 3.303 | 359.7 | 529.2 | 1.009 | --- | -6.21 | 0.263 | 112.3 | 308.9 | -9.8 | 0.203 |
| 4-3390 | 4-4250 | 0.331 | 61.2 | 47.8 | 6.53 | 1.295 | 90.3 | 0.693 | 3.282 | 359.4 | 530.4 | 1.009 | --- | -7.26 | 0.258 | 110.1 | 307.7 | -11.3 | 0.199 |
| 4-3390 | 4-4270 | 0.343 | 60.3 | 53.2 | 8.03 | 1.295 | 90.4 | 0.691 | 3.265 | 359.0 | 531.5 | 1.009 | --- | -8.75 | 0.255 | 107.9 | 306.4 | -13.2 | 0.198 |
| 4-3390 | 4-4290 | 0.365 | 57.9 | 60.6 | 10.29 | 1.294 | 90.6 | 0.690 | 3.251 | 358.6 | 532.6 | 1.009 | --- | -11.00 | 0.251 | 105.7 | 305.2 | -16.0 | 0.198 |
| 4-3390 | 4-4310 | 0.411 | 50.6 | 70.9 | 14.09 | 1.294 | 90.8 | 0.689 | 3.240 | 358.1 | 533.6 | 1.008 | --- | -14.77 | 0.249 | 103.6 | 303.9 | -20.2 | 0.203 |
| 4-3390 | 4-4330 | 0.522 | 355.5 | 83.0 | 21.64 | 1.294 | 91.0 | 0.688 | 3.231 | 357.7 | 534.7 | 1.008 | --- | -22.31 | 0.246 | 101.5 | 302.5 | -27.0 | 0.221 |
| 4-3390 | 4-4350 | 0.867 | 266.9 | 64.8 | 42.05 | 1.293 | 91.1 | 0.687 | 3.224 | 357.3 | 535.7 | 1.008 | --- | -42.71 | 0.245 | 99.4 | 300.4 | -36.3 | 0.295 |
| 4-3390 | 4-4370 | 1.419 | 196.0 | -79.4 | -75.56 | 1.293 | 91.9 | 0.687 | 3.220 | 355.4 | 536.6 | 1.007 | --- | 74.92 | 0.243 | 97.5 | 296.7 | 30.2 | 0.428 |
| 4-3390 | 4-4390 | 0.699 | 89.0 | -57.9 | -32.31 | 1.293 | 91.9 | 0.687 | 3.217 | 355.3 | 537.5 | 1.007 | --- | 31.69 | 0.242 | 95.5 | 298.3 | 27.6 | 0.251 |
| 4-3390 | 4-4410 | 0.484 | 83.2 | -38.3 | -19.23 | 1.293 | 92.1 | 0.687 | 3.215 | 354.8 | 538.4 | 1.007 | --- | 18.62 | 0.241 | 93.5 | 298.2 | 19.0 | 0.207 |
| 4-3390 | 4-4430 | 0.405 | 81.9 | -25.7 | -13.66 | 1.293 | 92.4 | 0.687 | 3.215 | 354.2 | 539.2 | 1.007 | --- | 13.06 | 0.240 | 91.6 | 297.6 | 13.6 | 0.194 |
| 4-3390 | 4-4450 | 0.369 | 81.8 | -17.0 | -10.62 | 1.293 | 92.6 | 0.687 | 3.216 | 353.6 | 540.1 | 1.006 | 5.425 | 10.04 | 0.240 | 89.8 | 297.0 | 10.1 | 0.188 |
| 4-3390 | 4-4470 | 0.350 | 82.2 | -10.8 | -8.72 | 1.293 | 92.9 | 0.688 | 3.218 | 352.9 | 540.9 | 1.005 | 5.430 | 8.15 | 0.240 | 88.1 | 296.4 | 7.8 | 0.186 |
| 4-3390 | 4-4490 | 0.339 | 82.9 | -6.2 | -7.41 | 1.293 | 93.2 | 0.688 | 3.221 | 352.1 | 541.7 | 1.005 | 5.436 | 6.86 | 0.240 | 86.3 | 295.9 | 6.1 | 0.185 |
| 4-3390 | 4-4510 | 0.332 | 83.8 | -2.7 | -6.46 | 1.293 | 93.5 | 0.689 | 3.224 | 351.4 | 542.4 | 1.004 | 5.445 | 5.93 | 0.241 | 84.7 | 295.4 | 4.9 | 0.185 |
| 4-3390 | 4-4530 | 0.328 | 84.8 | 0.2 | -5.74 | 1.294 | 93.8 | 0.689 | 3.229 | 350.6 | 543.1 | 1.003 | 5.455 | 5.22 | 0.241 | 83.1 | 295.0 | 4.0 | 0.186 |
| 4-3390 | 4-4550 | 0.326 | 86.0 | 2.5 | -5.17 | 1.294 | 94.2 | 0.690 | 3.234 | 349.8 | 543.9 | 1.002 | 5.467 | 4.67 | 0.242 | 81.5 | 294.7 | 3.2 | 0.186 |
| 4-3390 | 4-4570 | 0.325 | 87.2 | 4.4 | -4.71 | 1.294 | 94.5 | 0.691 | 3.241 | 348.9 | 544.5 | 1.001 | 5.480 | 4.23 | 0.243 | 80.0 | 294.5 | 2.6 | 0.187 |
| 4-3390 | 4-4590 | 0.325 | 88.5 | 6.0 | -4.34 | 1.294 | 94.9 | 0.692 | 3.247 | 348.1 | 545.2 | 1.000 | 5.494 | 3.86 | 0.244 | 78.6 | 294.3 | 2.1 | 0.189 |
| 4-3390 | 4-4610 | 0.325 | 89.8 | 7.3 | -4.02 | 1.294 | 95.2 | 0.693 | 3.254 | 347.2 | 545.9 | 0.998 | 5.510 | 3.56 | 0.245 | 77.1 | 294.2 | 1.7 | 0.190 |
| 4-3390 | 4-4630 | 0.326 | 91.2 | 8.5 | -3.74 | 1.295 | 95.6 | 0.694 | 3.262 | 346.4 | 546.5 | 0.997 | 5.527 | 3.30 | 0.246 | 75.8 | 294.2 | 1.3 | 0.192 |
| 4-3390 | 4-4650 | 0.328 | 92.6 | 9.5 | -3.51 | 1.295 | 96.0 | 0.696 | 3.270 | 345.6 | 547.1 | 0.995 | 5.545 | 3.08 | 0.247 | 74.5 | 294.2 | 1.0 | 0.194 |
| 4-3390 | 4-4670 | 0.329 | 94.1 | 10.4 | -3.30 | 1.295 | 96.3 | 0.697 | 3.279 | 344.5 | 547.7 | 0.994 | 5.564 | 2.89 | 0.249 | 73.2 | 294.4 | 0.7 | 0.196 |
| 4-3390 | 4-4690 | 0.332 | 95.6 | 11.2 | -3.12 | 1.296 | 96.7 | 0.698 | 3.288 | 343.6 | 548.3 | 0.992 | 5.583 | 2.72 | 0.250 | 72.0 | 294.5 | 0.5 | 0.198 |
| 4-3390 | 4-4710 | 0.334 | 97.1 | 11.8 | -2.95 | 1.296 | 97.1 | 0.700 | 3.297 | 342.7 | 548.8 | 0.990 | 5.604 | 2.57 | 0.252 | 70.8 | 294.8 | 0.3 | 0.200 |
| 4-3390 | 4-4730 | 0.337 | 98.6 | 12.4 | -2.81 | 1.296 | 97.5 | 0.701 | 3.306 | 341.7 | 549.4 | 0.988 | 5.625 | 2.44 | 0.254 | 69.6 | 295.1 | 0.1 | 0.202 |
| 4-3390 | 4-4750 | 0.340 | 100.1 | 12.9 | -2.68 | 1.297 | 97.9 | 0.703 | 3.316 | 340.7 | 549.9 | 0.985 | 5.647 | 2.33 | 0.255 | 68.5 | 295.4 | -0.1 | 0.204 |
| 4-3390 | 4-4770 | 0.344 | 101.6 | 13.4 | -2.56 | 1.297 | 98.4 | 0.705 | 3.326 | 339.7 | 550.4 | 0.983 | 5.670 | 2.22 | 0.257 | 67.4 | 295.9 | -0.2 | 0.206 |
| 4-3390 | 4-4790 | 0.347 | 103.1 | 13.8 | -2.45 | 1.297 | 98.8 | 0.706 | 3.337 | 338.7 | 550.9 | 0.980 | 5.693 | 2.13 | 0.259 | 66.4 | 296.3 | -0.3 | 0.209 |
| 4-3390 | 4-4810 | 0.351 | 104.6 | 14.1 | -2.35 | 1.298 | 99.2 | 0.708 | 3.347 | 337.7 | 551.4 | 0.977 | 5.717 | 2.05 | 0.261 | 65.4 | 296.8 | -0.4 | 0.211 |
| 4-3390 | 4-4830 | 0.356 | 106.1 | 14.4 | -2.25 | 1.298 | 99.7 | 0.710 | 3.358 | 336.7 | 551.9 | 0.974 | 5.742 | 1.97 | 0.262 | 64.4 | 297.4 | -0.5 | 0.214 |
| 4-3390 | 4-4850 | 0.360 | 107.6 | 14.7 | -2.17 | 1.299 | 100.1 | 0.712 | 3.369 | 335.6 | 552.4 | 0.971 | 5.767 | 1.90 | 0.264 | 63.4 | 298.0 | -0.6 | 0.216 |
| 4-3390 | 4-4870 | 0.365 | 109.1 | 14.9 | -2.08 | 1.299 | 100.6 | 0.714 | 3.380 | 334.6 | 552.8 | 0.968 | 5.793 | 1.83 | 0.266 | 62.5 | 298.6 | -0.7 | 0.219 |
| 4-3390 | 4-4890 | 0.370 | 110.6 | 15.1 | -2.01 | 1.299 | 101.0 | 0.716 | 3.392 | 333.5 | 553.3 | 0.964 | 5.819 | 1.78 | 0.268 | 61.6 | 299.3 | -0.8 | 0.221 |
| 4-3390 | 4-4910 | 0.375 | 112.1 | 15.2 | -1.94 | 1.300 | 101.5 | 0.718 | 3.403 | 332.4 | 553.7 | 0.961 | 5.846 | 1.72 | 0.270 | 60.7 | 300.0 | -0.8 | 0.224 |
| 4-3390 | 4-4930 | 0.381 | 113.6 | 15.3 | -1.87 | 1.300 | 102.0 | 0.720 | 3.415 | 331.3 | 554.1 | 0.957 | 5.873 | 1.67 | 0.272 | 59.8 | 300.7 | -0.9 | 0.226 |
| 4-3390 | 4-4950 | 0.387 | 115.0 | 15.4 | -1.81 | 1.300 | 102.4 | 0.722 | 3.427 | 330.2 | 554.5 | 0.953 | 5.900 | 1.63 | 0.274 | 59.0 | 301.5 | -0.9 | 0.229 |
| 4-3390 | 4-4970 | 0.393 | 116.5 | 15.6 | -1.75 | 1.301 | 102.9 | 0.724 | 3.438 | 329.1 | 554.9 | 0.948 | 5.928 | 1.58 | 0.276 | 58.2 | 302.3 | -1.0 | 0.231 |
| 4-3390 | 4-4990 | 0.399 | 117.9 | 15.6 | -1.69 | 1.301 | 103.4 | 0.726 | 3.450 | 327.9 | 555.3 | 0.944 | 5.957 | 1.54 | 0.278 | 57.4 | 303.2 | -1.0 | 0.234 |
| 4-3400 | 4-3680 | 0.619 | 90.8 | 23.8 | 0.15 | 1.608 | 94.6 | 1.597 | -1.675 | 352.6 | 468.2 | 1.001 | --- | -1.36 | 0.991 | 161.8 | 321.6 | -2.4 | 0.929 |
| 4-3400 | 4-3700 | 0.569 | 88.1 | 24.0 | 0.19 | 1.560 | 93.5 | 1.448 | -2.239 | 354.1 | 471.4 | 1.003 | --- | -1.38 | 0.911 | 160.7 | 322.0 | -2.4 | 0.850 |
| 4-3400 | 4-3720 | 0.528 | 85.4 | 24.1 | 0.24 | 1.521 | 92.5 | 1.327 | -3.073 | 355.6 | 474.6 | 1.004 | --- | -1.40 | 0.842 | 159.6 | 322.3 | -2.4 | 0.782 |
| 4-3400 | 4-3740 | 0.494 | 82.6 | 24.1 | 0.28 | 1.488 | 91.6 | 1.228 | -4.414 | 357.1 | 477.7 | 1.005 | --- | -1.43 | 0.781 | 158.5 | 322.5 | -2.4 | 0.721 |
| 4-3400 | 4-3760 | 0.467 | 79.9 | 24.2 | 0.33 | 1.461 | 90.8 | 1.146 | -6.892 | 358.5 | 480.8 | 1.006 | --- | -1.45 | 0.726 | 157.2 | 322.7 | -2.5 | 0.667 |
| 4-3400 | 4-3780 | 0.444 | 77.2 | 24.2 | 0.38 | 1.437 | 90.0 | 1.078 | 12.919 | 359.9 | 483.9 | 1.006 | --- | -1.48 | 0.678 | 156.0 | 322.9 | -2.5 | 0.619 |
| 4-3400 | 4-3800 | 0.425 | 74.6 | 24.1 | 0.43 | 1.417 | 89.4 | 1.021 | 48.136 | 1.3 | 126.9 | --- | --- | -1.51 | 0.634 | 154.6 | 323.0 | -2.6 | 0.576 |
| 4-3400 | 4-3820 | 0.409 | 72.1 | 24.1 | 0.49 | 1.400 | 88.7 | 0.973 | 37.216 | 2.5 | 129.8 | --- | --- | -1.54 | 0.595 | 153.2 | 323.1 | -2.6 | 0.537 |
| 4-3400 | 4-3840 | 0.396 | 69.8 | 24.1 | 0.54 | 1.386 | 88.2 | 0.932 | 14.868 | 3.7 | 132.6 | --- | --- | -1.58 | 0.560 | 151.7 | 323.1 | -2.7 | 0.501 |
| 4-3400 | 4-3860 | 0.385 | 67.7 | 24.0 | 0.60 | 1.373 | 87.7 | 0.898 | 9.841 | 4.8 | 135.3 | --- | --- | -1.61 | 0.528 | 150.2 | 323.0 | -2.7 | 0.470 |
| 4-3400 | 4-3880 | 0.376 | 65.8 | 24.0 | 0.66 | 1.363 | 87.3 | 0.869 | 7.635 | 5.8 | 137.9 | --- | --- | -1.65 | 0.498 | 148.6 | 322.9 | -2.8 | 0.440 |
| 4-3400 | 4-3900 | 0.369 | 64.0 | 24.0 | 0.73 | 1.353 | 86.9 | 0.843 | 6.403 | 6.7 | 140.4 | --- | --- | -1.70 | 0.472 | 146.9 | 322.7 | -2.9 | 0.414 |
| 4-3400 | 4-3920 | 0.362 | 62.4 | 24.0 | 0.80 | 1.345 | 86.6 | 0.822 | 5.623 | 7.5 | 142.8 | --- | --- | -1.75 | 0.448 | 145.2 | 322.4 | -3.0 | 0.390 |
| 4-3400 | 4-3940 | 0.357 | 61.1 | 24.1 | 0.87 | 1.338 | 86.3 | 0.803 | 5.088 | 8.2 | 145.1 | --- | --- | -1.80 | 0.426 | 143.4 | 322.1 | -3.1 | 0.368 |
| 4-3400 | 4-3960 | 0.352 | 59.9 | 24.2 | 0.94 | 1.332 | 86.1 | 0.787 | 4.701 | 8.8 | 147.3 | --- | --- | -1.85 | 0.406 | 141.5 | 321.6 | -3.3 | 0.348 |
| 4-3400 | 4-3980 | 0.348 | 58.8 | 24.3 | 1.03 | 1.327 | 85.9 | 0.773 | 4.410 | 9.3 | 149.4 | --- | --- | -1.91 | 0.388 | 139.6 | 321.1 | -3.4 | 0.329 |
| 4-3400 | 4-4000 | 0.345 | 58.0 | 24.5 | 1.11 | 1.323 | 85.8 | 0.761 | 4.185 | 9.7 | 151.4 | --- | --- | -1.98 | 0.371 | 137.7 | 320.5 | -3.5 | 0.312 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3400 | 4-4020 | 0.342 | 57.2 | 24.8 | 1.20 | 1.319 | 85.7 | 0.751 | 4.008 | 10.1 | 153.4 | --- | --- | -2.05 | 0.356 | 135.6 | 319.9 | -3.7 | 0.297 |
| 4-3400 | 4-4040 | 0.339 | 56.7 | 25.1 | 1.30 | 1.315 | 85.6 | 0.742 | 3.866 | 10.3 | 155.2 | --- | --- | -2.13 | 0.342 | 133.6 | 319.1 | -3.9 | 0.283 |
| 4-3400 | 4-4060 | 0.337 | 56.2 | 25.4 | 1.41 | 1.312 | 85.6 | 0.734 | 3.750 | 10.5 | 157.0 | --- | --- | -2.22 | 0.329 | 131.5 | 318.3 | -4.1 | 0.270 |
| 4-3400 | 4-4080 | 0.334 | 55.9 | 25.9 | 1.52 | 1.309 | 85.5 | 0.727 | 3.655 | 10.6 | 158.7 | --- | --- | -2.32 | 0.318 | 129.3 | 317.4 | -4.3 | 0.258 |
| 4-3400 | 4-4100 | 0.332 | 55.6 | 26.4 | 1.65 | 1.307 | 85.5 | 0.721 | 3.576 | 10.7 | 160.3 | --- | --- | -2.43 | 0.308 | 127.1 | 316.5 | -4.5 | 0.248 |
| 4-3400 | 4-4120 | 0.330 | 55.5 | 26.9 | 1.79 | 1.305 | 85.6 | 0.715 | 3.510 | 10.6 | 161.8 | --- | --- | -2.55 | 0.298 | 124.9 | 315.4 | -4.8 | 0.238 |
| 4-3400 | 4-4140 | 0.329 | 55.5 | 27.6 | 1.94 | 1.303 | 85.6 | 0.711 | 3.456 | 10.5 | 163.3 | --- | --- | -2.68 | 0.290 | 122.7 | 314.3 | -5.0 | 0.230 |
| 4-3400 | 4-4160 | 0.327 | 55.6 | 28.3 | 2.11 | 1.302 | 85.7 | 0.707 | 3.410 | 10.4 | 164.7 | --- | --- | -2.83 | 0.283 | 120.4 | 313.2 | -5.3 | 0.222 |
| 4-3400 | 4-4180 | 0.326 | 55.7 | 29.1 | 2.30 | 1.301 | 85.8 | 0.703 | 3.371 | 10.2 | 166.0 | --- | --- | -3.00 | 0.276 | 118.2 | 312.0 | -5.7 | 0.215 |
| 4-3400 | 4-4200 | 0.325 | 55.9 | 30.1 | 2.51 | 1.299 | 85.9 | 0.700 | 3.339 | 9.9 | 167.3 | --- | --- | -3.20 | 0.270 | 115.9 | 310.8 | -6.0 | 0.209 |
| 4-3400 | 4-4220 | 0.324 | 56.1 | 31.2 | 2.75 | 1.298 | 86.1 | 0.698 | 3.311 | 9.6 | 168.6 | --- | --- | -3.42 | 0.265 | 113.6 | 309.6 | -6.4 | 0.204 |
| 4-3400 | 4-4240 | 0.323 | 56.5 | 32.4 | 3.03 | 1.298 | 86.2 | 0.696 | 3.289 | 9.2 | 169.8 | --- | --- | -3.68 | 0.260 | 111.4 | 308.4 | -6.9 | 0.199 |
| 4-3400 | 4-4260 | 0.323 | 56.8 | 33.9 | 3.35 | 1.297 | 86.4 | 0.694 | 3.270 | 8.8 | 170.9 | --- | --- | -3.99 | 0.256 | 109.2 | 307.2 | -7.4 | 0.196 |
| 4-3400 | 4-4280 | 0.323 | 57.2 | 35.5 | 3.74 | 1.296 | 86.6 | 0.692 | 3.255 | 8.4 | 172.0 | --- | --- | -4.36 | 0.253 | 107.0 | 306.0 | -8.0 | 0.192 |
| 4-3400 | 4-4300 | 0.324 | 57.5 | 37.5 | 4.19 | 1.296 | 86.8 | 0.691 | 3.243 | 7.9 | 173.1 | --- | --- | -4.80 | 0.250 | 104.8 | 304.8 | -8.6 | 0.190 |
| 4-3400 | 4-4320 | 0.325 | 57.8 | 39.9 | 4.75 | 1.296 | 87.0 | 0.690 | 3.233 | 7.4 | 174.1 | --- | --- | -5.34 | 0.247 | 102.7 | 303.7 | -9.4 | 0.188 |
| 4-3400 | 4-4340 | 0.328 | 58.0 | 42.7 | 5.46 | 1.295 | 87.2 | 0.689 | 3.226 | 6.9 | 175.1 | --- | --- | -6.03 | 0.245 | 100.6 | 302.6 | -10.4 | 0.187 |
| 4-3400 | 4-4360 | 0.334 | 58.0 | 46.3 | 6.36 | 1.295 | 87.4 | 0.688 | 3.220 | 6.3 | 176.1 | --- | --- | -6.92 | 0.243 | 98.6 | 301.6 | -11.6 | 0.186 |
| 4-3400 | 4-4380 | 0.342 | 57.5 | 50.8 | 7.58 | 1.295 | 87.7 | 0.688 | 3.217 | 5.7 | 177.0 | --- | --- | -8.12 | 0.242 | 96.6 | 300.6 | -13.1 | 0.187 |
| 4-3400 | 4-4400 | 0.358 | 56.1 | 56.7 | 9.31 | 1.295 | 87.9 | 0.688 | 3.214 | 5.1 | 177.9 | --- | --- | -9.83 | 0.241 | 94.6 | 299.8 | -15.2 | 0.189 |
| 4-3400 | 4-4420 | 0.386 | 52.1 | 64.5 | 11.93 | 1.295 | 88.2 | 0.687 | 3.214 | 4.5 | 178.7 | --- | --- | -12.44 | 0.241 | 92.8 | 299.0 | -18.3 | 0.193 |
| 4-3400 | 4-4440 | 0.445 | 37.6 | 74.8 | 16.40 | 1.295 | 88.4 | 0.687 | 3.214 | 3.8 | 179.6 | --- | --- | -16.89 | 0.240 | 90.9 | 298.5 | -22.8 | 0.203 |
| 4-3400 | 4-4460 | 0.586 | 316.3 | 79.9 | 25.50 | 1.295 | 88.7 | 0.687 | 3.216 | 3.2 | 180.4 | --- | 5.427 | -25.97 | 0.240 | 89.1 | 298.4 | -29.9 | 0.230 |
| 4-3400 | 4-4480 | 1.014 | 271.2 | 56.7 | 50.47 | 1.295 | 88.9 | 0.688 | 3.219 | 2.8 | 181.2 | --- | 5.432 | -50.93 | 0.240 | 87.4 | 299.6 | -37.4 | 0.327 |
| 4-3400 | 4-4500 | 1.292 | 157.4 | -86.9 | -67.24 | 1.295 | 89.8 | 0.688 | 3.223 | 0.6 | 181.9 | --- | 5.439 | 66.81 | 0.240 | 85.8 | 298.8 | 31.4 | 0.393 |
| 4-3400 | 4-4520 | 0.684 | 84.3 | -57.4 | -31.38 | 1.295 | 89.9 | 0.688 | 3.227 | 0.3 | 182.7 | --- | 5.448 | 30.95 | 0.241 | 84.2 | 296.5 | 27.0 | 0.249 |
| 4-3400 | 4-4540 | 0.487 | 82.3 | -38.9 | -19.41 | 1.296 | 90.2 | 0.689 | 3.233 | 359.6 | 543.4 | 1.006 | 5.459 | 19.00 | 0.242 | 82.6 | 295.6 | 18.9 | 0.211 |
| 4-3400 | 4-4560 | 0.409 | 82.2 | -26.7 | -13.98 | 1.296 | 90.5 | 0.689 | 3.239 | 358.8 | 544.1 | 1.006 | 5.471 | 13.59 | 0.243 | 81.1 | 295.1 | 13.6 | 0.199 |
| 4-3400 | 4-4580 | 0.371 | 82.7 | -18.2 | -10.93 | 1.296 | 90.8 | 0.690 | 3.245 | 358.0 | 544.8 | 1.006 | 5.485 | 10.56 | 0.244 | 79.6 | 294.8 | 10.2 | 0.195 |
| 4-3400 | 4-4600 | 0.351 | 83.5 | -12.0 | -8.98 | 1.296 | 91.1 | 0.691 | 3.252 | 357.2 | 545.4 | 1.006 | 5.499 | 8.63 | 0.245 | 78.2 | 294.7 | 7.9 | 0.193 |
| 4-3400 | 4-4620 | 0.339 | 84.6 | -7.3 | -7.64 | 1.297 | 91.5 | 0.692 | 3.260 | 356.3 | 546.1 | 1.005 | 5.515 | 7.30 | 0.246 | 76.8 | 294.6 | 6.3 | 0.193 |
| 4-3400 | 4-4640 | 0.331 | 85.8 | -3.6 | -6.65 | 1.297 | 91.9 | 0.693 | 3.268 | 355.5 | 546.7 | 1.005 | 5.532 | 6.32 | 0.247 | 75.5 | 294.6 | 5.0 | 0.194 |
| 4-3400 | 4-4660 | 0.326 | 87.2 | -0.7 | -5.89 | 1.297 | 92.2 | 0.694 | 3.277 | 354.6 | 547.3 | 1.004 | 5.549 | 5.58 | 0.249 | 74.3 | 294.7 | 4.1 | 0.195 |
| 4-3400 | 4-4680 | 0.323 | 88.6 | 1.7 | -5.29 | 1.298 | 92.6 | 0.695 | 3.286 | 353.6 | 547.9 | 1.004 | 5.568 | 5.00 | 0.250 | 73.0 | 294.8 | 3.3 | 0.196 |
| 4-3400 | 4-4700 | 0.321 | 90.1 | 3.7 | -4.81 | 1.298 | 93.0 | 0.696 | 3.295 | 352.7 | 548.4 | 1.003 | 5.587 | 4.53 | 0.252 | 71.9 | 295.0 | 2.7 | 0.198 |
| 4-3400 | 4-4720 | 0.320 | 91.7 | 5.3 | -4.40 | 1.298 | 93.4 | 0.697 | 3.305 | 351.8 | 549.0 | 1.002 | 5.608 | 4.15 | 0.253 | 70.7 | 295.3 | 2.2 | 0.200 |
| 4-3400 | 4-4740 | 0.320 | 93.3 | 6.7 | -4.06 | 1.299 | 93.8 | 0.698 | 3.315 | 350.8 | 549.6 | 1.001 | 5.629 | 3.82 | 0.255 | 69.6 | 295.6 | 1.8 | 0.202 |
| 4-3400 | 4-4760 | 0.321 | 94.9 | 7.9 | -3.77 | 1.299 | 94.2 | 0.699 | 3.325 | 349.8 | 550.1 | 1.000 | 5.650 | 3.55 | 0.257 | 68.5 | 296.0 | 1.4 | 0.203 |
| 4-3400 | 4-4780 | 0.322 | 96.6 | 9.0 | -3.52 | 1.299 | 94.6 | 0.701 | 3.335 | 348.8 | 550.6 | 0.998 | 5.673 | 3.31 | 0.259 | 67.5 | 296.4 | 1.1 | 0.205 |
| 4-3400 | 4-4800 | 0.323 | 98.3 | 9.9 | -3.30 | 1.300 | 95.0 | 0.702 | 3.346 | 347.8 | 551.1 | 0.997 | 5.696 | 3.11 | 0.260 | 66.5 | 296.9 | 0.8 | 0.208 |
| 4-3400 | 4-4820 | 0.325 | 100.0 | 10.6 | -3.10 | 1.300 | 95.4 | 0.704 | 3.357 | 346.8 | 551.6 | 0.995 | 5.719 | 2.93 | 0.262 | 65.5 | 297.4 | 0.6 | 0.210 |
| 4-3400 | 4-4840 | 0.327 | 101.7 | 11.3 | -2.93 | 1.300 | 95.9 | 0.705 | 3.368 | 345.8 | 552.1 | 0.993 | 5.743 | 2.77 | 0.264 | 64.6 | 297.9 | 0.4 | 0.212 |
| 4-3400 | 4-4860 | 0.330 | 103.4 | 11.9 | -2.77 | 1.301 | 96.3 | 0.707 | 3.380 | 344.8 | 552.5 | 0.991 | 5.768 | 2.63 | 0.266 | 63.7 | 298.5 | 0.2 | 0.214 |
| 4-3400 | 4-4880 | 0.333 | 105.1 | 12.4 | -2.63 | 1.301 | 96.8 | 0.708 | 3.391 | 343.7 | 553.0 | 0.989 | 5.793 | 2.51 | 0.268 | 62.8 | 299.2 | 0.1 | 0.216 |
| 4-3400 | 4-4900 | 0.336 | 106.9 | 12.8 | -2.50 | 1.302 | 97.2 | 0.710 | 3.403 | 342.6 | 553.4 | 0.987 | 5.818 | 2.40 | 0.270 | 61.9 | 299.9 | -0.0 | 0.219 |
| 4-3400 | 4-4920 | 0.339 | 108.6 | 13.2 | -2.38 | 1.302 | 97.7 | 0.712 | 3.414 | 341.6 | 553.9 | 0.985 | 5.844 | 2.30 | 0.272 | 61.1 | 300.6 | -0.2 | 0.221 |
| 4-3400 | 4-4940 | 0.343 | 110.3 | 13.5 | -2.28 | 1.302 | 98.1 | 0.713 | 3.426 | 340.5 | 554.3 | 0.982 | 5.870 | 2.21 | 0.274 | 60.3 | 301.3 | -0.3 | 0.224 |
| 4-3400 | 4-4960 | 0.347 | 112.0 | 13.7 | -2.18 | 1.303 | 98.6 | 0.715 | 3.438 | 339.4 | 554.7 | 0.979 | 5.897 | 2.12 | 0.276 | 59.5 | 302.1 | -0.4 | 0.226 |
| 4-3400 | 4-4980 | 0.352 | 113.7 | 13.9 | -2.08 | 1.303 | 99.1 | 0.717 | 3.450 | 338.2 | 555.1 | 0.976 | 5.924 | 2.05 | 0.278 | 58.7 | 302.9 | -0.4 | 0.228 |
| 4-3400 | 4-5000 | 0.358 | 115.4 | 14.1 | -1.99 | 1.304 | 99.5 | 0.719 | 3.462 | 337.1 | 555.5 | 0.973 | 5.952 | 1.98 | 0.280 | 58.0 | 303.8 | -0.5 | 0.231 |
| 4-3410 | 4-3690 | 0.600 | 84.0 | 23.8 | 0.16 | 1.595 | 88.6 | 1.551 | -1.820 | 2.4 | 109.1 | --- | --- | -1.34 | 0.966 | 161.5 | 322.1 | -2.3 | 0.904 |
| 4-3410 | 4-3710 | 0.557 | 80.9 | 23.7 | 0.20 | 1.549 | 87.6 | 1.407 | -2.460 | 4.0 | 112.4 | --- | --- | -1.35 | 0.889 | 160.4 | 322.4 | -2.4 | 0.828 |
| 4-3410 | 4-3730 | 0.522 | 77.8 | 23.7 | 0.24 | 1.511 | 86.8 | 1.291 | -3.436 | 5.7 | 115.7 | --- | --- | -1.37 | 0.821 | 159.3 | 322.6 | -2.4 | 0.761 |
| 4-3410 | 4-3750 | 0.494 | 74.8 | 23.6 | 0.28 | 1.480 | 86.0 | 1.197 | -5.077 | 7.3 | 119.0 | --- | --- | -1.38 | 0.761 | 158.1 | 322.8 | -2.4 | 0.702 |
| 4-3410 | 4-3770 | 0.472 | 71.8 | 23.4 | 0.33 | 1.454 | 85.3 | 1.119 | -8.375 | 8.8 | 122.2 | --- | --- | -1.40 | 0.708 | 156.9 | 322.9 | -2.4 | 0.650 |
| 4-3410 | 4-3790 | 0.454 | 69.1 | 23.2 | 0.37 | 1.431 | 84.7 | 1.055 | 18.199 | 10.3 | 125.3 | --- | --- | -1.42 | 0.661 | 155.6 | 323.0 | -2.5 | 0.603 |
| 4-3410 | 4-3810 | 0.439 | 66.5 | 23.0 | 0.42 | 1.412 | 84.1 | 1.001 | 30.506 | 11.7 | 128.4 | --- | --- | -1.44 | 0.618 | 154.2 | 323.1 | -2.5 | 0.561 |
| 4-3410 | 4-3830 | 0.427 | 64.1 | 22.8 | 0.46 | 1.396 | 83.6 | 0.956 | 22.599 | 13.0 | 131.3 | --- | --- | -1.46 | 0.580 | 152.8 | 323.1 | -2.6 | 0.523 |
| 4-3410 | 4-3850 | 0.417 | 62.0 | 22.7 | 0.51 | 1.382 | 83.2 | 0.918 | 12.097 | 14.3 | 134.1 | --- | --- | -1.48 | 0.545 | 151.3 | 323.0 | -2.6 | 0.489 |
| 4-3410 | 4-3870 | 0.409 | 60.0 | 22.5 | 0.56 | 1.370 | 82.8 | 0.886 | 8.670 | 15.4 | 136.9 | --- | --- | -1.51 | 0.514 | 149.8 | 322.9 | -2.7 | 0.458 |
| 4-3410 | 4-3890 | 0.403 | 58.3 | 22.3 | 0.61 | 1.360 | 82.4 | 0.859 | 6.981 | 16.4 | 139.5 | --- | --- | -1.53 | 0.486 | 148.1 | 322.7 | -2.8 | 0.430 |
| 4-3410 | 4-3910 | 0.397 | 56.8 | 22.2 | 0.66 | 1.351 | 82.1 | 0.836 | 5.983 | 17.3 | 142.0 | --- | --- | -1.56 | 0.460 | 146.4 | 322.4 | -2.9 | 0.404 |
| 4-3410 | 4-3930 | 0.392 | 55.5 | 22.2 | 0.72 | 1.344 | 81.9 | 0.816 | 5.327 | 18.0 | 144.4 | --- | --- | -1.60 | 0.436 | 144.7 | 322.0 | -2.9 | 0.381 |
| 4-3410 | 4-3950 | 0.388 | 54.4 | 22.1 | 0.77 | 1.337 | 81.7 | 0.799 | 4.868 | 18.7 | 146.7 | --- | --- | -1.63 | 0.415 | 142.8 | 321.6 | -3.0 | 0.360 |
| 4-3410 | 4-3970 | 0.385 | 53.4 | 22.1 | 0.83 | 1.331 | 81.5 | 0.784 | 4.530 | 19.3 | 148.8 | --- | --- | -1.67 | 0.396 | 140.9 | 321.1 | -3.1 | 0.340 |
| 4-3410 | 4-3990 | 0.381 | 52.6 | 22.2 | 0.89 | 1.326 | 81.4 | 0.771 | 4.273 | 19.8 | 150.9 | --- | --- | -1.71 | 0.378 | 139.0 | 320.5 | -3.3 | 0.322 |
| 4-3410 | 4-4010 | 0.379 | 51.9 | 22.3 | 0.96 | 1.322 | 81.3 | 0.760 | 4.074 | 20.1 | 152.9 | --- | --- | -1.75 | 0.362 | 137.0 | 319.9 | -3.4 | 0.306 |
| 4-3410 | 4-4030 | 0.376 | 51.4 | 22.4 | 1.03 | 1.318 | 81.3 | 0.751 | 3.915 | 20.4 | 154.7 | --- | --- | -1.80 | 0.347 | 134.9 | 319.1 | -3.5 | 0.291 |
| 4-3410 | 4-4050 | 0.373 | 51.0 | 22.6 | 1.10 | 1.315 | 81.2 | 0.742 | 3.787 | 20.6 | 156.5 | --- | --- | -1.85 | 0.334 | 132.8 | 318.3 | -3.7 | 0.278 |
| 4-3410 | 4-4070 | 0.371 | 50.7 | 22.8 | 1.17 | 1.312 | 81.2 | 0.735 | 3.682 | 20.8 | 158.2 | --- | --- | -1.90 | 0.322 | 130.7 | 317.5 | -3.8 | 0.265 |
| 4-3410 | 4-4090 | 0.369 | 50.5 | 23.0 | 1.25 | 1.310 | 81.2 | 0.729 | 3.596 | 20.8 | 159.9 | --- | --- | -1.96 | 0.311 | 128.5 | 316.5 | -4.0 | 0.254 |
| 4-3410 | 4-4110 | 0.366 | 50.4 | 23.4 | 1.34 | 1.308 | 81.3 | 0.723 | 3.525 | 20.8 | 161.4 | --- | --- | -2.03 | 0.301 | 126.2 | 315.5 | -4.2 | 0.244 |
| 4-3410 | 4-4130 | 0.364 | 50.4 | 23.7 | 1.43 | 1.306 | 81.4 | 0.718 | 3.466 | 20.7 | 162.9 | --- | --- | -2.10 | 0.292 | 124.0 | 314.4 | -4.4 | 0.235 |
| 4-3410 | 4-4150 | 0.362 | 50.4 | 24.1 | 1.53 | 1.304 | 81.5 | 0.714 | 3.416 | 20.5 | 164.3 | --- | --- | -2.17 | 0.284 | 121.7 | 313.3 | -4.5 | 0.227 |
| 4-3410 | 4-4170 | 0.360 | 50.6 | 24.6 | 1.63 | 1.303 | 81.6 | 0.710 | 3.375 | 20.3 | 165.7 | --- | --- | -2.26 | 0.277 | 119.4 | 312.2 | -4.8 | 0.220 |
| 4-3410 | 4-4190 | 0.358 | 50.8 | 25.1 | 1.74 | 1.302 | 81.7 | 0.707 | 3.340 | 20.1 | 167.0 | --- | --- | -2.35 | 0.270 | 117.1 | 311.0 | -5.0 | 0.213 |
| 4-3410 | 4-4210 | 0.355 | 51.1 | 25.6 | 1.86 | 1.301 | 81.8 | 0.704 | 3.311 | 19.8 | 168.2 | --- | --- | -2.46 | 0.265 | 114.9 | 309.8 | -5.2 | 0.208 |
| 4-3410 | 4-4230 | 0.353 | 51.5 | 26.3 | 2.00 | 1.300 | 82.0 | 0.702 | 3.287 | 19.4 | 169.4 | --- | --- | -2.57 | 0.260 | 112.6 | 308.6 | -5.4 | 0.203 |
| 4-3410 | 4-4250 | 0.351 | 51.9 | 27.0 | 2.14 | 1.299 | 82.2 | 0.700 | 3.267 | 19.0 | 170.6 | --- | --- | -2.70 | 0.256 | 110.3 | 307.4 | -5.7 | 0.198 |
| 4-3410 | 4-4270 | 0.349 | 52.3 | 27.7 | 2.30 | 1.298 | 82.4 | 0.698 | 3.251 | 18.6 | 171.7 | --- | --- | -2.84 | 0.252 | 108.1 | 306.2 | -6.0 | 0.195 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3410 | 4-4290 | 0.347 | 52.9 | 28.6 | 2.48 | 1.298 | 82.6 | 0.696 | 3.238 | 18.1 | 172.7 | --- | --- | -3.00 | 0.249 | 105.9 | 305.0 | -6.3 | 0.192 |
| 4-3410 | 4-4310 | 0.345 | 53.4 | 29.5 | 2.68 | 1.298 | 82.8 | 0.695 | 3.227 | 17.6 | 173.8 | --- | --- | -3.18 | 0.246 | 103.7 | 303.9 | -6.6 | 0.189 |
| 4-3410 | 4-4330 | 0.344 | 54.0 | 30.6 | 2.91 | 1.297 | 83.0 | 0.694 | 3.219 | 17.0 | 174.7 | --- | --- | -3.39 | 0.244 | 101.6 | 302.8 | -6.9 | 0.187 |
| 4-3410 | 4-4350 | 0.342 | 54.6 | 31.8 | 3.17 | 1.297 | 83.3 | 0.693 | 3.214 | 16.4 | 175.7 | --- | --- | -3.63 | 0.242 | 99.5 | 301.8 | -7.3 | 0.186 |
| 4-3410 | 4-4370 | 0.341 | 55.3 | 33.2 | 3.46 | 1.297 | 83.5 | 0.692 | 3.210 | 15.8 | 176.6 | --- | --- | -3.91 | 0.241 | 97.5 | 300.8 | -7.7 | 0.184 |
| 4-3410 | 4-4390 | 0.340 | 55.9 | 34.7 | 3.81 | 1.297 | 83.8 | 0.692 | 3.207 | 15.2 | 177.5 | --- | --- | -4.23 | 0.240 | 95.5 | 299.9 | -8.2 | 0.184 |
| 4-3410 | 4-4410 | 0.340 | 56.6 | 36.5 | 4.21 | 1.297 | 84.1 | 0.691 | 3.207 | 14.5 | 178.4 | --- | --- | -4.62 | 0.239 | 93.6 | 299.1 | -8.7 | 0.183 |
| 4-3410 | 4-4430 | 0.340 | 57.2 | 38.6 | 4.70 | 1.297 | 84.3 | 0.691 | 3.207 | 13.8 | 179.2 | --- | --- | -5.09 | 0.239 | 91.8 | 298.3 | -9.3 | 0.184 |
| 4-3410 | 4-4450 | 0.342 | 57.7 | 41.1 | 5.30 | 1.297 | 84.6 | 0.691 | 3.209 | 13.1 | 180.0 | --- | 5.425 | -5.67 | 0.239 | 90.0 | 297.7 | -10.1 | 0.184 |
| 4-3410 | 4-4470 | 0.344 | 58.1 | 44.0 | 6.05 | 1.297 | 84.9 | 0.691 | 3.212 | 12.4 | 180.8 | --- | 5.429 | -6.41 | 0.239 | 88.2 | 297.1 | -11.0 | 0.185 |
| 4-3410 | 4-4490 | 0.350 | 58.2 | 47.7 | 7.02 | 1.297 | 85.2 | 0.691 | 3.215 | 11.6 | 181.6 | --- | 5.436 | -7.36 | 0.239 | 86.5 | 296.6 | -12.2 | 0.187 |
| 4-3410 | 4-4510 | 0.359 | 57.7 | 52.4 | 8.33 | 1.297 | 85.6 | 0.691 | 3.220 | 10.9 | 182.3 | --- | 5.444 | -8.65 | 0.240 | 84.9 | 296.2 | -13.7 | 0.189 |
| 4-3410 | 4-4530 | 0.376 | 56.1 | 58.4 | 10.19 | 1.297 | 85.9 | 0.691 | 3.225 | 10.1 | 183.0 | --- | 5.454 | -10.49 | 0.240 | 83.3 | 296.0 | -15.8 | 0.193 |
| 4-3410 | 4-4550 | 0.407 | 51.0 | 66.4 | 13.03 | 1.298 | 86.2 | 0.691 | 3.231 | 9.3 | 183.7 | --- | 5.465 | -13.32 | 0.241 | 81.8 | 296.0 | -18.8 | 0.199 |
| 4-3410 | 4-4570 | 0.473 | 31.5 | 76.3 | 17.89 | 1.298 | 86.5 | 0.692 | 3.238 | 8.5 | 184.4 | --- | 5.478 | -18.17 | 0.242 | 80.3 | 296.3 | -23.4 | 0.211 |
| 4-3410 | 4-4590 | 0.631 | 310.3 | 77.5 | 27.89 | 1.298 | 86.8 | 0.692 | 3.246 | 7.8 | 185.1 | --- | 5.491 | -28.14 | 0.243 | 78.9 | 297.7 | -30.4 | 0.242 |
| 4-3410 | 4-4610 | 1.097 | 277.2 | 52.8 | 55.13 | 1.299 | 87.0 | 0.693 | 3.253 | 7.3 | 185.7 | --- | 5.507 | -55.36 | 0.245 | 77.5 | 302.1 | -36.9 | 0.349 |
| 4-3410 | 4-4630 | 1.248 | 48.2 | -85.8 | -64.23 | 1.299 | 88.0 | 0.693 | 3.262 | 4.9 | 186.3 | --- | 5.521 | 64.01 | 0.246 | 76.3 | 301.7 | 31.3 | 0.385 |
| 4-3410 | 4-4650 | 0.685 | 81.2 | -56.6 | -31.20 | 1.299 | 88.2 | 0.694 | 3.270 | 4.4 | 186.9 | --- | 5.539 | 30.99 | 0.248 | 75.0 | 297.2 | 26.1 | 0.255 |
| 4-3410 | 4-4670 | 0.494 | 82.5 | -38.8 | -19.59 | 1.299 | 88.5 | 0.694 | 3.280 | 3.6 | 187.5 | --- | 5.557 | 19.40 | 0.249 | 73.8 | 295.9 | 18.3 | 0.221 |
| 4-3410 | 4-4690 | 0.415 | 83.4 | -26.8 | -14.16 | 1.300 | 88.9 | 0.695 | 3.289 | 2.8 | 188.1 | --- | 5.575 | 13.99 | 0.251 | 72.6 | 295.5 | 13.2 | 0.210 |
| 4-3410 | 4-4710 | 0.376 | 84.6 | -18.3 | -11.08 | 1.300 | 89.2 | 0.696 | 3.299 | 1.9 | 188.7 | --- | 5.595 | 10.92 | 0.252 | 71.4 | 295.6 | 10.0 | 0.206 |
| 4-3410 | 4-4730 | 0.354 | 85.8 | -12.1 | -9.09 | 1.300 | 89.6 | 0.697 | 3.309 | 0.9 | 189.2 | --- | 5.615 | 8.95 | 0.254 | 70.3 | 295.8 | 7.7 | 0.205 |
| 4-3410 | 4-4750 | 0.341 | 87.2 | -7.4 | -7.71 | 1.301 | 90.0 | 0.698 | 3.320 | 360.0 | 549.7 | 1.003 | 5.636 | 7.59 | 0.256 | 69.3 | 296.1 | 6.1 | 0.205 |
| 4-3410 | 4-4770 | 0.332 | 88.8 | -3.7 | -6.69 | 1.301 | 90.4 | 0.699 | 3.330 | 359.0 | 550.3 | 1.003 | 5.657 | 6.58 | 0.258 | 68.3 | 296.4 | 4.9 | 0.206 |
| 4-3410 | 4-4790 | 0.327 | 90.4 | -0.7 | -5.90 | 1.302 | 90.8 | 0.700 | 3.341 | 358.0 | 550.8 | 1.003 | 5.679 | 5.82 | 0.260 | 67.3 | 296.9 | 4.0 | 0.207 |
| 4-3410 | 4-4810 | 0.323 | 92.0 | 1.6 | -5.28 | 1.302 | 91.2 | 0.701 | 3.352 | 357.0 | 551.3 | 1.003 | 5.702 | 5.21 | 0.261 | 66.3 | 297.3 | 3.3 | 0.209 |
| 4-3410 | 4-4830 | 0.320 | 93.8 | 3.6 | -4.78 | 1.302 | 91.7 | 0.702 | 3.364 | 356.0 | 551.8 | 1.002 | 5.725 | 4.73 | 0.263 | 65.4 | 297.9 | 2.7 | 0.211 |
| 4-3410 | 4-4850 | 0.319 | 95.6 | 5.2 | -4.36 | 1.303 | 92.1 | 0.703 | 3.375 | 355.0 | 552.3 | 1.002 | 5.749 | 4.33 | 0.265 | 64.5 | 298.4 | 2.2 | 0.212 |
| 4-3410 | 4-4870 | 0.318 | 97.4 | 6.6 | -4.01 | 1.303 | 92.5 | 0.704 | 3.387 | 353.9 | 552.7 | 1.001 | 5.773 | 3.99 | 0.267 | 63.6 | 299.1 | 1.8 | 0.214 |
| 4-3410 | 4-4890 | 0.318 | 99.2 | 7.8 | -3.70 | 1.304 | 93.0 | 0.706 | 3.399 | 352.9 | 553.2 | 1.000 | 5.797 | 3.70 | 0.269 | 62.8 | 299.7 | 1.4 | 0.216 |
| 4-3410 | 4-4910 | 0.319 | 101.1 | 8.8 | -3.44 | 1.304 | 93.4 | 0.707 | 3.411 | 351.8 | 553.6 | 0.999 | 5.822 | 3.46 | 0.271 | 62.0 | 300.4 | 1.2 | 0.218 |
| 4-3410 | 4-4930 | 0.319 | 103.0 | 9.7 | -3.21 | 1.304 | 93.8 | 0.708 | 3.423 | 350.7 | 554.1 | 0.998 | 5.847 | 3.25 | 0.273 | 61.2 | 301.1 | 0.9 | 0.220 |
| 4-3410 | 4-4950 | 0.321 | 104.9 | 10.4 | -3.01 | 1.305 | 94.3 | 0.710 | 3.435 | 349.6 | 554.5 | 0.997 | 5.873 | 3.06 | 0.275 | 60.4 | 301.9 | 0.7 | 0.223 |
| 4-3410 | 4-4970 | 0.323 | 106.8 | 11.0 | -2.83 | 1.305 | 94.8 | 0.711 | 3.447 | 348.5 | 554.9 | 0.995 | 6.899 | 2.90 | 0.277 | 59.7 | 302.7 | 0.5 | 0.225 |
| 4-3410 | 4-4990 | 0.325 | 108.7 | 11.5 | -2.66 | 1.306 | 95.2 | 0.713 | 3.460 | 347.4 | 555.3 | 0.993 | 5.926 | 2.75 | 0.280 | 58.9 | 303.5 | 0.3 | 0.227 |
| 4-3410 | 4-5010 | 0.327 | 110.7 | 12.0 | -2.51 | 1.306 | 95.7 | 0.714 | 3.472 | 346.3 | 555.7 | 0.991 | 5.953 | 2.62 | 0.282 | 58.2 | 304.4 | 0.2 | 0.229 |
| 4-3420 | 4-3700 | 0.612 | 76.5 | 23.3 | 0.17 | 1.580 | 82.2 | 1.491 | -2.008 | 13.0 | 110.8 | --- | --- | -1.32 | 0.939 | 161.3 | 322.3 | -2.3 | 0.879 |
| 4-3420 | 4-3720 | 0.575 | 73.2 | 23.1 | 0.21 | 1.537 | 81.5 | 1.356 | -2.757 | 14.8 | 114.2 | --- | --- | -1.32 | 0.864 | 160.3 | 322.5 | -2.3 | 0.805 |
| 4-3420 | 4-3740 | 0.546 | 70.1 | 22.9 | 0.25 | 1.501 | 80.8 | 1.248 | -3.944 | 16.6 | 117.7 | --- | --- | -1.33 | 0.798 | 159.2 | 322.6 | -2.4 | 0.740 |
| 4-3420 | 4-3760 | 0.524 | 67.1 | 22.6 | 0.29 | 1.471 | 80.2 | 1.160 | -6.080 | 18.3 | 121.0 | --- | --- | -1.34 | 0.740 | 158.0 | 322.7 | -2.4 | 0.683 |
| 4-3420 | 4-3780 | 0.506 | 64.4 | 22.3 | 0.33 | 1.446 | 79.6 | 1.088 | 10.981 | 20.0 | 124.3 | --- | --- | -1.35 | 0.688 | 156.7 | 322.8 | -2.4 | 0.632 |
| 4-3420 | 4-3800 | 0.491 | 61.9 | 22.0 | 0.37 | 1.425 | 79.1 | 1.029 | 33.217 | 21.5 | 127.5 | --- | --- | -1.36 | 0.642 | 155.4 | 322.8 | -2.5 | 0.587 |
| 4-3420 | 4-3820 | 0.480 | 59.7 | 21.7 | 0.41 | 1.407 | 78.6 | 0.980 | 48.004 | 23.0 | 130.6 | --- | --- | -1.37 | 0.600 | 154.0 | 322.8 | -2.5 | 0.546 |
| 4-3420 | 4-3840 | 0.471 | 57.7 | 21.5 | 0.45 | 1.391 | 78.2 | 0.939 | 15.691 | 24.3 | 133.5 | --- | --- | -1.38 | 0.563 | 152.6 | 322.7 | -2.6 | 0.510 |
| 4-3420 | 4-3860 | 0.463 | 55.9 | 21.2 | 0.49 | 1.378 | 77.9 | 0.905 | 9.997 | 25.5 | 136.4 | --- | --- | -1.40 | 0.529 | 151.1 | 322.6 | -2.6 | 0.477 |
| 4-3420 | 4-3880 | 0.457 | 54.3 | 21.0 | 0.53 | 1.367 | 77.6 | 0.876 | 7.641 | 26.6 | 139.1 | --- | --- | -1.41 | 0.498 | 149.5 | 322.3 | -2.7 | 0.447 |
| 4-3420 | 4-3900 | 0.452 | 53.0 | 20.8 | 0.58 | 1.357 | 77.4 | 0.851 | 6.361 | 27.6 | 141.7 | --- | --- | -1.43 | 0.471 | 147.8 | 322.0 | -2.7 | 0.419 |
| 4-3420 | 4-3920 | 0.447 | 51.8 | 20.7 | 0.62 | 1.349 | 77.1 | 0.830 | 5.564 | 28.4 | 144.1 | --- | --- | -1.45 | 0.446 | 146.1 | 321.7 | -2.8 | 0.395 |
| 4-3420 | 4-3940 | 0.443 | 50.8 | 20.6 | 0.67 | 1.342 | 77.0 | 0.812 | 5.023 | 29.1 | 146.5 | --- | --- | -1.47 | 0.423 | 144.2 | 321.2 | -2.9 | 0.372 |
| 4-3420 | 4-3960 | 0.440 | 50.0 | 20.6 | 0.71 | 1.335 | 76.8 | 0.797 | 4.635 | 29.7 | 148.7 | --- | --- | -1.49 | 0.402 | 142.4 | 320.7 | -3.0 | 0.352 |
| 4-3420 | 4-3980 | 0.437 | 49.3 | 20.5 | 0.76 | 1.330 | 76.8 | 0.784 | 4.346 | 30.2 | 150.8 | --- | --- | -1.52 | 0.383 | 140.4 | 320.1 | -3.1 | 0.333 |
| 4-3420 | 4-4000 | 0.434 | 48.7 | 20.6 | 0.81 | 1.325 | 76.7 | 0.772 | 4.123 | 30.7 | 152.8 | --- | --- | -1.54 | 0.366 | 138.4 | 319.5 | -3.2 | 0.316 |
| 4-3420 | 4-4020 | 0.431 | 48.3 | 20.6 | 0.86 | 1.321 | 76.7 | 0.762 | 3.949 | 31.0 | 154.7 | --- | --- | -1.57 | 0.350 | 136.4 | 318.7 | -3.3 | 0.300 |
| 4-3420 | 4-4040 | 0.428 | 48.0 | 20.7 | 0.92 | 1.318 | 76.7 | 0.754 | 3.809 | 31.2 | 156.5 | --- | --- | -1.60 | 0.336 | 134.2 | 317.9 | -3.4 | 0.286 |
| 4-3420 | 4-4060 | 0.425 | 47.7 | 20.8 | 0.97 | 1.315 | 76.7 | 0.746 | 3.696 | 31.3 | 158.2 | --- | --- | -1.63 | 0.323 | 132.1 | 317.1 | -3.5 | 0.273 |
| 4-3420 | 4-4080 | 0.423 | 47.6 | 21.0 | 1.03 | 1.312 | 76.7 | 0.740 | 3.604 | 31.4 | 159.8 | --- | --- | -1.67 | 0.312 | 129.9 | 316.1 | -3.7 | 0.262 |
| 4-3420 | 4-4100 | 0.420 | 47.5 | 21.2 | 1.09 | 1.310 | 76.8 | 0.734 | 3.527 | 31.3 | 161.4 | --- | --- | -1.70 | 0.301 | 127.6 | 315.1 | -3.8 | 0.251 |
| 4-3420 | 4-4120 | 0.417 | 47.5 | 21.4 | 1.15 | 1.308 | 76.9 | 0.729 | 3.464 | 31.2 | 162.8 | --- | --- | -1.75 | 0.292 | 125.3 | 314.1 | -3.9 | 0.242 |
| 4-3420 | 4-4140 | 0.414 | 47.6 | 21.6 | 1.22 | 1.306 | 77.0 | 0.724 | 3.412 | 31.1 | 164.3 | --- | --- | -1.79 | 0.284 | 123.0 | 313.0 | -4.1 | 0.233 |
| 4-3420 | 4-4160 | 0.411 | 47.8 | 21.9 | 1.29 | 1.305 | 77.1 | 0.721 | 3.368 | 30.9 | 165.6 | --- | --- | -1.84 | 0.276 | 120.7 | 311.8 | -4.2 | 0.226 |
| 4-3420 | 4-4180 | 0.409 | 48.0 | 22.2 | 1.36 | 1.303 | 77.3 | 0.717 | 3.331 | 30.6 | 166.9 | --- | --- | -1.89 | 0.269 | 118.3 | 310.7 | -4.4 | 0.219 |
| 4-3420 | 4-4200 | 0.406 | 48.2 | 22.6 | 1.44 | 1.302 | 77.4 | 0.714 | 3.301 | 30.3 | 168.1 | --- | --- | -1.95 | 0.263 | 116.0 | 309.5 | -4.5 | 0.213 |
| 4-3420 | 4-4220 | 0.403 | 48.6 | 23.0 | 1.52 | 1.301 | 77.6 | 0.711 | 3.276 | 29.9 | 169.3 | --- | --- | -2.01 | 0.258 | 113.7 | 308.3 | -4.7 | 0.208 |
| 4-3420 | 4-4240 | 0.400 | 49.0 | 23.4 | 1.60 | 1.301 | 77.8 | 0.709 | 3.255 | 29.5 | 170.4 | --- | --- | -2.07 | 0.254 | 111.4 | 307.1 | -4.9 | 0.203 |
| 4-3420 | 4-4260 | 0.397 | 49.4 | 23.9 | 1.70 | 1.300 | 78.0 | 0.707 | 3.238 | 29.0 | 171.5 | --- | --- | -2.15 | 0.250 | 109.1 | 305.9 | -5.0 | 0.199 |
| 4-3420 | 4-4280 | 0.394 | 49.9 | 24.4 | 1.79 | 1.300 | 78.2 | 0.705 | 3.224 | 28.5 | 172.6 | --- | --- | -2.22 | 0.247 | 106.8 | 304.8 | -5.2 | 0.196 |
| 4-3420 | 4-4300 | 0.391 | 50.4 | 24.9 | 1.90 | 1.299 | 78.5 | 0.704 | 3.214 | 28.0 | 173.6 | --- | --- | -2.31 | 0.244 | 104.6 | 303.7 | -5.4 | 0.193 |
| 4-3420 | 4-4320 | 0.388 | 51.0 | 25.5 | 2.02 | 1.299 | 78.7 | 0.702 | 3.206 | 27.4 | 174.6 | --- | --- | -2.41 | 0.242 | 102.4 | 302.6 | -5.6 | 0.190 |
| 4-3420 | 4-4340 | 0.384 | 51.6 | 26.1 | 2.14 | 1.299 | 79.0 | 0.701 | 3.200 | 26.8 | 175.5 | --- | --- | -2.51 | 0.240 | 100.3 | 301.6 | -5.8 | 0.189 |
| 4-3420 | 4-4360 | 0.381 | 52.2 | 26.8 | 2.27 | 1.299 | 79.2 | 0.700 | 3.196 | 26.2 | 176.4 | --- | --- | -2.63 | 0.238 | 98.2 | 300.6 | -6.0 | 0.187 |
| 4-3420 | 4-4380 | 0.378 | 52.9 | 27.5 | 2.42 | 1.298 | 79.5 | 0.699 | 3.193 | 25.6 | 177.3 | --- | --- | -2.76 | 0.237 | 96.2 | 299.7 | -6.2 | 0.186 |
| 4-3420 | 4-4400 | 0.375 | 53.6 | 28.3 | 2.59 | 1.298 | 79.8 | 0.699 | 3.193 | 24.9 | 178.2 | --- | --- | -2.90 | 0.237 | 94.3 | 298.9 | -6.4 | 0.185 |
| 4-3420 | 4-4420 | 0.373 | 54.4 | 29.2 | 2.77 | 1.298 | 80.1 | 0.698 | 3.193 | 24.2 | 179.0 | --- | --- | -3.07 | 0.236 | 92.4 | 298.2 | -6.6 | 0.185 |
| 4-3420 | 4-4440 | 0.370 | 55.2 | 30.2 | 2.97 | 1.299 | 80.4 | 0.697 | 3.195 | 23.4 | 179.8 | --- | --- | -3.25 | 0.236 | 90.5 | 297.5 | -6.9 | 0.185 |
| 4-3420 | 4-4460 | 0.367 | 56.0 | 31.3 | 3.20 | 1.299 | 80.7 | 0.697 | 3.198 | 22.7 | 180.5 | --- | 5.427 | -3.46 | 0.236 | 88.7 | 296.9 | -7.2 | 0.185 |
| 4-3420 | 4-4480 | 0.365 | 56.8 | 32.5 | 3.46 | 1.299 | 81.0 | 0.697 | 3.202 | 21.9 | 181.3 | --- | 5.433 | -3.71 | 0.237 | 87.0 | 296.4 | -7.5 | 0.186 |
| 4-3420 | 4-4500 | 0.363 | 57.6 | 33.9 | 3.77 | 1.299 | 81.3 | 0.697 | 3.207 | 21.1 | 182.0 | --- | 5.441 | -3.99 | 0.237 | 85.4 | 295.9 | -7.8 | 0.186 |
| 4-3420 | 4-4520 | 0.361 | 58.5 | 35.4 | 4.12 | 1.299 | 81.7 | 0.697 | 3.212 | 20.3 | 182.7 | --- | 5.450 | -4.32 | 0.238 | 83.8 | 295.6 | -8.2 | 0.187 |
| 4-3420 | 4-4540 | 0.360 | 59.3 | 37.2 | 4.53 | 1.299 | 82.0 | 0.696 | 3.219 | 19.5 | 183.4 | --- | 5.460 | -4.72 | 0.239 | 82.2 | 295.3 | -8.7 | 0.188 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3420 | 4-4560 | 0.359 | 60.1 | 39.3 | 5.03 | 1.300 | 82.4 | 0.697 | 3.226 | 18.7 | 184.1 | --- | 5.472 | -5.20 | 0.240 | 80.7 | 295.1 | -9.3 | 0.190 |
| 4-3420 | 4-4580 | 0.360 | 60.8 | 41.8 | 5.64 | 1.300 | 82.7 | 0.697 | 3.233 | 17.8 | 184.8 | --- | 5.486 | -5.79 | 0.241 | 79.3 | 295.0 | -10.0 | 0.191 |
| 4-3420 | 4-4600 | 0.362 | 61.4 | 44.7 | 6.40 | 1.300 | 83.1 | 0.697 | 3.241 | 16.9 | 185.4 | --- | 5.500 | -6.54 | 0.243 | 77.9 | 295.0 | -10.8 | 0.193 |
| 4-3420 | 4-4620 | 0.367 | 61.7 | 48.4 | 7.39 | 1.301 | 83.4 | 0.697 | 3.250 | 16.0 | 186.0 | --- | 5.516 | -7.51 | 0.244 | 76.6 | 295.1 | -11.9 | 0.196 |
| 4-3420 | 4-4640 | 0.376 | 61.5 | 53.0 | 8.73 | 1.301 | 83.8 | 0.697 | 3.259 | 15.2 | 186.6 | --- | 5.532 | -8.83 | 0.245 | 75.3 | 295.2 | -13.4 | 0.199 |
| 4-3420 | 4-4660 | 0.392 | 60.0 | 59.0 | 10.62 | 1.301 | 84.1 | 0.698 | 3.269 | 14.3 | 187.2 | --- | 5.549 | -10.70 | 0.247 | 74.1 | 295.6 | -15.3 | 0.203 |
| 4-3420 | 4-4680 | 0.424 | 55.3 | 66.8 | 13.52 | 1.302 | 84.5 | 0.698 | 3.278 | 13.4 | 187.8 | --- | 5.567 | -13.58 | 0.249 | 72.9 | 296.1 | -18.2 | 0.209 |
| 4-3420 | 4-4700 | 0.490 | 35.5 | 76.7 | 18.47 | 1.302 | 84.9 | 0.699 | 3.289 | 12.5 | 188.4 | --- | 5.586 | -18.53 | 0.250 | 71.8 | 297.1 | -22.7 | 0.222 |
| 4-3420 | 4-4720 | 0.650 | 314.4 | 77.3 | 28.64 | 1.302 | 85.2 | 0.699 | 3.299 | 11.6 | 188.9 | --- | 5.606 | -28.67 | 0.252 | 70.7 | 299.5 | -29.5 | 0.253 |
| 4-3420 | 4-4740 | 1.119 | 284.0 | 52.6 | 56.08 | 1.303 | 85.5 | 0.700 | 3.310 | 11.0 | 189.5 | --- | 5.627 | -56.10 | 0.254 | 69.6 | 306.1 | -36.0 | 0.358 |
| 4-3420 | 4-4760 | 1.251 | 28.2 | -81.2 | -64.13 | 1.303 | 86.5 | 0.700 | 3.321 | 8.5 | 189.9 | --- | 5.645 | 64.13 | 0.256 | 68.7 | 306.2 | 30.8 | 0.392 |
| 4-3420 | 4-4780 | 0.692 | 79.6 | -55.6 | -31.34 | 1.303 | 86.7 | 0.701 | 3.332 | 8.0 | 190.5 | --- | 5.667 | 31.35 | 0.258 | 67.7 | 300.0 | 25.2 | 0.266 |
| 4-3420 | 4-4800 | 0.500 | 83.7 | -37.9 | -19.64 | 1.304 | 87.1 | 0.702 | 3.343 | 7.1 | 191.0 | --- | 5.689 | 19.68 | 0.260 | 66.8 | 298.5 | 17.5 | 0.233 |
| 4-3420 | 4-4820 | 0.420 | 85.7 | -25.9 | -14.16 | 1.304 | 87.5 | 0.702 | 3.355 | 6.1 | 191.5 | --- | 5.712 | 14.21 | 0.262 | 65.8 | 298.3 | 12.6 | 0.222 |
| 4-3420 | 4-4840 | 0.381 | 87.4 | -17.5 | -11.02 | 1.305 | 87.9 | 0.703 | 3.367 | 5.2 | 192.0 | --- | 5.735 | 11.09 | 0.264 | 65.0 | 298.6 | 9.5 | 0.219 |
| 4-3420 | 4-4860 | 0.358 | 89.1 | -11.3 | -9.01 | 1.305 | 88.3 | 0.704 | 3.379 | 4.1 | 192.4 | --- | 5.758 | 9.09 | 0.266 | 64.1 | 299.1 | 7.3 | 0.218 |
| 4-3420 | 4-4880 | 0.344 | 90.8 | -6.7 | -7.60 | 1.305 | 88.7 | 0.705 | 3.391 | 3.1 | 192.9 | --- | 5.782 | 7.71 | 0.268 | 63.3 | 299.6 | 5.8 | 0.218 |
| 4-3420 | 4-4900 | 0.335 | 92.6 | -3.0 | -6.57 | 1.306 | 89.1 | 0.706 | 3.403 | 2.1 | 193.3 | --- | 5.806 | 6.69 | 0.270 | 62.5 | 300.3 | 4.7 | 0.219 |
| 4-3420 | 4-4920 | 0.329 | 94.4 | -0.2 | -5.77 | 1.306 | 89.6 | 0.707 | 3.416 | 1.0 | 193.8 | --- | 5.831 | 5.91 | 0.272 | 61.7 | 300.9 | 3.8 | 0.220 |
| 4-3420 | 4-4940 | 0.324 | 96.3 | 2.1 | -5.14 | 1.307 | 90.0 | 0.708 | 3.428 | 359.9 | 554.2 | 1.000 | 5.856 | 5.30 | 0.274 | 61.0 | 301.7 | 3.1 | 0.222 |
| 4-3420 | 4-4960 | 0.321 | 98.2 | 4.0 | -4.63 | 1.307 | 90.5 | 0.709 | 3.441 | 358.9 | 554.6 | 1.000 | 5.881 | 4.80 | 0.276 | 60.3 | 302.4 | 2.6 | 0.224 |
| 4-3420 | 4-4980 | 0.319 | 100.2 | 5.6 | -4.20 | 1.308 | 90.9 | 0.710 | 3.453 | 357.8 | 555.1 | 1.000 | 5.906 | 4.39 | 0.279 | 59.5 | 303.2 | 2.1 | 0.226 |
| 4-3420 | 4-5000 | 0.318 | 102.2 | 6.9 | -3.84 | 1.308 | 91.4 | 0.712 | 3.466 | 356.7 | 555.5 | 1.000 | 5.932 | 4.05 | 0.281 | 58.9 | 304.1 | 1.7 | 0.227 |
| 4-3420 | 4-5020 | 0.317 | 104.2 | 8.0 | -3.53 | 1.308 | 91.9 | 0.713 | 3.479 | 355.5 | 555.9 | 0.999 | 5.958 | 3.76 | 0.283 | 58.2 | 304.9 | 1.4 | 0.229 |
| 4-3430 | 4-3730 | 0.624 | 66.6 | 22.2 | 0.23 | 1.524 | 75.0 | 1.297 | -3.158 | 26.5 | 116.9 | --- | --- | -1.29 | 0.837 | 160.3 | 322.2 | -2.3 | 0.782 |
| 4-3430 | 4-3750 | 0.600 | 63.8 | 21.9 | 0.26 | 1.490 | 74.5 | 1.199 | -4.676 | 28.4 | 120.4 | --- | --- | -1.29 | 0.772 | 159.2 | 322.3 | -2.4 | 0.720 |
| 4-3430 | 4-3770 | 0.581 | 61.3 | 21.6 | 0.30 | 1.461 | 74.0 | 1.120 | -7.698 | 30.2 | 123.9 | --- | --- | -1.29 | 0.716 | 158.0 | 322.4 | -2.4 | 0.664 |
| 4-3430 | 4-3790 | 0.566 | 59.0 | 21.2 | 0.34 | 1.437 | 73.6 | 1.056 | 16.462 | 31.9 | 127.2 | --- | --- | -1.29 | 0.665 | 156.8 | 322.3 | -2.4 | 0.615 |
| 4-3430 | 4-3810 | 0.554 | 57.0 | 20.9 | 0.37 | 1.417 | 73.2 | 1.003 | 95.966 | 33.5 | 130.5 | --- | --- | -1.30 | 0.620 | 155.4 | 322.3 | -2.5 | 0.571 |
| 4-3430 | 4-3830 | 0.545 | 55.2 | 20.6 | 0.41 | 1.400 | 72.9 | 0.960 | 22.462 | 35.0 | 133.5 | --- | --- | -1.30 | 0.580 | 154.0 | 322.1 | -2.5 | 0.532 |
| 4-3430 | 4-3850 | 0.537 | 53.7 | 20.4 | 0.45 | 1.386 | 72.6 | 0.923 | 11.784 | 36.3 | 136.5 | --- | --- | -1.31 | 0.543 | 152.5 | 322.0 | -2.6 | 0.496 |
| 4-3430 | 4-3870 | 0.530 | 52.3 | 20.2 | 0.49 | 1.373 | 72.4 | 0.893 | 8.407 | 37.4 | 139.2 | --- | --- | -1.32 | 0.511 | 151.0 | 321.7 | -2.6 | 0.464 |
| 4-3430 | 4-3890 | 0.524 | 51.2 | 20.0 | 0.52 | 1.363 | 72.2 | 0.867 | 6.762 | 38.5 | 141.9 | --- | --- | -1.32 | 0.481 | 149.3 | 321.4 | -2.7 | 0.436 |
| 4-3430 | 4-3910 | 0.520 | 50.2 | 19.9 | 0.56 | 1.354 | 72.0 | 0.846 | 5.795 | 39.4 | 144.4 | --- | --- | -1.33 | 0.454 | 147.6 | 321.0 | -2.7 | 0.409 |
| 4-3430 | 4-3930 | 0.515 | 49.4 | 19.8 | 0.60 | 1.346 | 71.9 | 0.827 | 5.164 | 40.1 | 146.8 | --- | --- | -1.34 | 0.430 | 145.8 | 320.5 | -2.8 | 0.386 |
| 4-3430 | 4-3950 | 0.511 | 48.7 | 19.7 | 0.64 | 1.339 | 71.8 | 0.812 | 4.723 | 40.7 | 149.0 | --- | --- | -1.36 | 0.407 | 144.0 | 320.0 | -2.9 | 0.364 |
| 4-3430 | 4-3970 | 0.508 | 48.1 | 19.7 | 0.68 | 1.333 | 71.8 | 0.798 | 4.400 | 41.3 | 151.1 | --- | --- | -1.37 | 0.387 | 142.0 | 319.4 | -2.9 | 0.344 |
| 4-3430 | 4-3990 | 0.504 | 47.6 | 19.6 | 0.72 | 1.328 | 71.8 | 0.787 | 4.156 | 41.7 | 153.1 | --- | --- | -1.38 | 0.369 | 140.0 | 318.7 | -3.0 | 0.326 |
| 4-3430 | 4-4010 | 0.501 | 47.3 | 19.7 | 0.76 | 1.324 | 71.8 | 0.777 | 3.966 | 42.0 | 155.0 | --- | --- | -1.40 | 0.352 | 137.9 | 318.0 | -3.1 | 0.310 |
| 4-3430 | 4-4030 | 0.497 | 47.0 | 19.7 | 0.81 | 1.320 | 71.8 | 0.768 | 3.816 | 42.2 | 156.8 | --- | --- | -1.42 | 0.337 | 135.8 | 317.1 | -3.2 | 0.295 |
| 4-3430 | 4-4050 | 0.494 | 46.9 | 19.8 | 0.85 | 1.317 | 71.9 | 0.760 | 3.695 | 42.3 | 158.5 | --- | --- | -1.43 | 0.324 | 133.6 | 316.3 | -3.3 | 0.282 |
| 4-3430 | 4-4070 | 0.491 | 46.8 | 19.9 | 0.90 | 1.314 | 72.0 | 0.754 | 3.597 | 42.3 | 160.1 | --- | --- | -1.46 | 0.311 | 131.4 | 315.3 | -3.4 | 0.270 |
| 4-3430 | 4-4090 | 0.488 | 46.8 | 20.0 | 0.94 | 1.312 | 72.1 | 0.748 | 3.516 | 42.3 | 161.6 | --- | --- | -1.48 | 0.300 | 129.1 | 314.3 | -3.5 | 0.259 |
| 4-3430 | 4-4110 | 0.484 | 46.8 | 20.2 | 0.99 | 1.310 | 72.2 | 0.743 | 3.450 | 42.2 | 163.1 | --- | --- | -1.50 | 0.290 | 126.7 | 313.3 | -3.6 | 0.249 |
| 4-3430 | 4-4130 | 0.481 | 46.9 | 20.4 | 1.04 | 1.308 | 72.3 | 0.738 | 3.395 | 42.0 | 164.5 | --- | --- | -1.53 | 0.281 | 124.4 | 312.2 | -3.8 | 0.240 |
| 4-3430 | 4-4150 | 0.477 | 47.1 | 20.6 | 1.09 | 1.306 | 72.5 | 0.734 | 3.350 | 41.7 | 165.8 | --- | --- | -1.55 | 0.273 | 122.0 | 311.0 | -3.9 | 0.232 |
| 4-3430 | 4-4170 | 0.474 | 47.3 | 20.8 | 1.14 | 1.305 | 72.7 | 0.731 | 3.312 | 41.4 | 167.1 | --- | --- | -1.58 | 0.266 | 119.6 | 309.9 | -4.0 | 0.225 |
| 4-3430 | 4-4190 | 0.470 | 47.5 | 21.0 | 1.19 | 1.304 | 72.8 | 0.727 | 3.280 | 41.1 | 168.3 | --- | --- | -1.62 | 0.260 | 117.2 | 308.7 | -4.1 | 0.219 |
| 4-3430 | 4-4210 | 0.466 | 47.8 | 21.3 | 1.25 | 1.303 | 73.0 | 0.725 | 3.255 | 40.7 | 169.4 | --- | --- | -1.65 | 0.255 | 114.8 | 307.6 | -4.2 | 0.213 |
| 4-3430 | 4-4230 | 0.462 | 48.2 | 21.6 | 1.31 | 1.302 | 73.3 | 0.722 | 3.233 | 40.2 | 170.6 | --- | --- | -1.69 | 0.250 | 112.4 | 306.4 | -4.3 | 0.209 |
| 4-3430 | 4-4250 | 0.459 | 48.6 | 21.9 | 1.37 | 1.302 | 73.5 | 0.720 | 3.216 | 39.8 | 171.6 | --- | --- | -1.73 | 0.246 | 110.0 | 305.2 | -4.5 | 0.205 |
| 4-3430 | 4-4270 | 0.455 | 49.0 | 22.2 | 1.44 | 1.301 | 73.7 | 0.718 | 3.203 | 39.2 | 172.6 | --- | --- | -1.77 | 0.243 | 107.7 | 304.1 | -4.6 | 0.201 |
| 4-3430 | 4-4290 | 0.451 | 49.5 | 22.6 | 1.50 | 1.301 | 74.0 | 0.716 | 3.192 | 38.7 | 173.6 | --- | --- | -1.82 | 0.240 | 105.4 | 303.0 | -4.7 | 0.198 |
| 4-3430 | 4-4310 | 0.447 | 50.0 | 22.9 | 1.57 | 1.300 | 74.2 | 0.714 | 3.184 | 38.1 | 174.6 | --- | --- | -1.87 | 0.238 | 103.1 | 302.0 | -4.8 | 0.195 |
| 4-3430 | 4-4330 | 0.443 | 50.5 | 23.3 | 1.65 | 1.300 | 74.5 | 0.713 | 3.178 | 37.5 | 175.5 | --- | --- | -1.93 | 0.236 | 100.9 | 301.0 | -4.9 | 0.193 |
| 4-3430 | 4-4350 | 0.439 | 51.1 | 23.8 | 1.73 | 1.300 | 74.8 | 0.712 | 3.174 | 36.8 | 176.4 | --- | --- | -1.99 | 0.234 | 98.8 | 300.1 | -5.1 | 0.192 |
| 4-3430 | 4-4370 | 0.435 | 51.7 | 24.2 | 1.81 | 1.300 | 75.1 | 0.711 | 3.172 | 36.1 | 177.2 | --- | --- | -2.05 | 0.233 | 96.7 | 299.2 | -5.2 | 0.190 |
| 4-3430 | 4-4390 | 0.430 | 52.4 | 24.7 | 1.90 | 1.300 | 75.4 | 0.710 | 3.171 | 35.4 | 178.1 | --- | --- | -2.12 | 0.233 | 94.7 | 298.4 | -5.3 | 0.190 |
| 4-3430 | 4-4410 | 0.426 | 53.1 | 25.2 | 2.00 | 1.300 | 75.7 | 0.709 | 3.172 | 34.7 | 178.9 | --- | --- | -2.20 | 0.232 | 92.7 | 297.7 | -5.4 | 0.189 |
| 4-3430 | 4-4430 | 0.422 | 53.8 | 25.8 | 2.11 | 1.300 | 76.0 | 0.708 | 3.175 | 33.9 | 179.6 | --- | --- | -2.28 | 0.232 | 90.8 | 297.0 | -5.5 | 0.189 |
| 4-3430 | 4-4450 | 0.418 | 54.5 | 26.4 | 2.22 | 1.300 | 76.3 | 0.707 | 3.178 | 33.2 | 180.4 | --- | 5.425 | -2.38 | 0.232 | 89.0 | 296.5 | -5.7 | 0.189 |
| 4-3430 | 4-4470 | 0.414 | 55.3 | 27.0 | 2.34 | 1.300 | 76.7 | 0.707 | 3.182 | 32.4 | 181.1 | --- | 5.431 | -2.48 | 0.233 | 87.3 | 296.0 | -5.8 | 0.189 |
| 4-3430 | 4-4490 | 0.410 | 56.1 | 27.7 | 2.47 | 1.300 | 77.0 | 0.706 | 3.187 | 31.6 | 181.9 | --- | 5.438 | -2.60 | 0.233 | 85.6 | 295.5 | -6.0 | 0.189 |
| 4-3430 | 4-4510 | 0.406 | 56.9 | 28.4 | 2.62 | 1.301 | 77.3 | 0.706 | 3.193 | 30.7 | 182.5 | --- | 5.447 | -2.72 | 0.234 | 83.9 | 295.2 | -6.1 | 0.190 |
| 4-3430 | 4-4530 | 0.402 | 57.8 | 29.2 | 2.78 | 1.301 | 77.7 | 0.705 | 3.200 | 29.9 | 183.2 | --- | 5.457 | -2.87 | 0.235 | 82.4 | 294.9 | -6.3 | 0.190 |
| 4-3430 | 4-4550 | 0.398 | 58.7 | 30.0 | 2.96 | 1.301 | 78.0 | 0.705 | 3.207 | 29.0 | 183.9 | --- | 5.469 | -3.03 | 0.236 | 80.9 | 294.7 | -6.5 | 0.191 |
| 4-3430 | 4-4570 | 0.395 | 59.6 | 31.0 | 3.16 | 1.302 | 78.4 | 0.705 | 3.215 | 28.2 | 184.5 | --- | 5.482 | -3.21 | 0.238 | 79.4 | 294.6 | -6.7 | 0.192 |
| 4-3430 | 4-4590 | 0.391 | 60.6 | 32.0 | 3.38 | 1.302 | 78.8 | 0.705 | 3.224 | 27.3 | 185.1 | --- | 5.496 | -3.42 | 0.239 | 78.0 | 294.5 | -6.9 | 0.194 |
| 4-3430 | 4-4610 | 0.388 | 61.5 | 33.2 | 3.64 | 1.302 | 79.1 | 0.705 | 3.233 | 26.4 | 185.8 | --- | 5.511 | -3.66 | 0.241 | 76.7 | 294.6 | -7.2 | 0.195 |
| 4-3430 | 4-4630 | 0.385 | 62.5 | 34.5 | 3.94 | 1.303 | 79.5 | 0.705 | 3.242 | 25.5 | 186.4 | --- | 5.527 | -3.93 | 0.242 | 75.4 | 294.6 | -7.5 | 0.196 |
| 4-3430 | 4-4650 | 0.382 | 63.5 | 36.0 | 4.28 | 1.303 | 79.9 | 0.705 | 3.252 | 24.5 | 186.9 | --- | 5.544 | -4.26 | 0.244 | 74.2 | 294.8 | -7.8 | 0.198 |
| 4-3430 | 4-4670 | 0.380 | 64.5 | 37.6 | 4.68 | 1.303 | 80.3 | 0.705 | 3.263 | 23.6 | 187.5 | --- | 5.562 | -4.65 | 0.246 | 73.0 | 295.0 | -8.3 | 0.200 |
| 4-3430 | 4-4690 | 0.378 | 65.4 | 39.6 | 5.17 | 1.304 | 80.7 | 0.705 | 3.273 | 22.7 | 188.1 | --- | 5.581 | -5.12 | 0.248 | 71.9 | 295.3 | -8.8 | 0.201 |
| 4-3430 | 4-4710 | 0.378 | 66.3 | 42.0 | 5.77 | 1.304 | 81.0 | 0.705 | 3.284 | 21.7 | 188.6 | --- | 5.600 | -5.70 | 0.250 | 70.8 | 295.6 | -9.4 | 0.203 |
| 4-3430 | 4-4730 | 0.379 | 67.2 | 44.8 | 6.51 | 1.304 | 81.4 | 0.705 | 3.295 | 20.7 | 189.1 | --- | 5.620 | -6.43 | 0.252 | 69.7 | 296.0 | -10.1 | 0.206 |
| 4-3430 | 4-4750 | 0.383 | 67.8 | 48.3 | 7.48 | 1.305 | 81.8 | 0.706 | 3.307 | 19.8 | 189.7 | --- | 5.640 | -7.37 | 0.254 | 68.7 | 296.5 | -11.1 | 0.208 |
| 4-3430 | 4-4770 | 0.390 | 68.0 | 52.7 | 8.78 | 1.305 | 82.2 | 0.706 | 3.318 | 18.8 | 190.2 | --- | 5.661 | -8.66 | 0.256 | 67.8 | 297.0 | -12.4 | 0.211 |
| 4-3430 | 4-4790 | 0.405 | 67.2 | 58.4 | 10.62 | 1.306 | 82.7 | 0.706 | 3.330 | 17.8 | 190.7 | --- | 5.682 | -10.48 | 0.258 | 66.8 | 297.8 | -14.3 | 0.215 |
| 4-3430 | 4-4810 | 0.434 | 63.9 | 66.1 | 13.42 | 1.306 | 83.1 | 0.707 | 3.342 | 16.8 | 191.2 | --- | 5.704 | -13.27 | 0.260 | 65.9 | 298.7 | -16.9 | 0.222 |
| 4-3430 | 4-4830 | 0.495 | 48.7 | 76.1 | 18.20 | 1.306 | 83.5 | 0.707 | 3.354 | 15.8 | 191.7 | --- | 5.727 | -18.03 | 0.262 | 65.1 | 300.1 | -21.0 | 0.233 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3430 | 4-4850 | 0.645 | 325.5 | 79.3 | 27.94 | 1.307 | 83.8 | 0.708 | 3.367 | 14.9 | 192.1 | --- | 5.750 | -27.75 | 0.264 | 64.2 | 302.9 | -27.7 | 0.261 |
| 4-3430 | 4-4870 | 1.091 | 291.0 | 55.3 | 54.14 | 1.307 | 84.1 | 0.709 | 3.379 | 14.2 | 192.6 | --- | 5.773 | -53.94 | 0.266 | 63.4 | 310.7 | -34.9 | 0.358 |
| 4-3430 | 4-4890 | 1.283 | 21.3 | -76.6 | -65.77 | 1.308 | 85.2 | 0.708 | 3.392 | 11.6 | 193.0 | --- | 5.794 | 66.00 | 0.268 | 62.7 | 312.0 | 30.2 | 0.406 |
| 4-3430 | 4-4910 | 0.700 | 79.2 | -54.1 | -31.46 | 1.308 | 85.4 | 0.709 | 3.405 | 11.0 | 193.5 | --- | 5.819 | 31.70 | 0.270 | 61.9 | 304.5 | 24.3 | 0.278 |
| 4-3430 | 4-4930 | 0.504 | 85.9 | -36.3 | -19.45 | 1.309 | 85.8 | 0.710 | 3.417 | 10.1 | 193.9 | --- | 5.844 | 19.71 | 0.273 | 61.2 | 302.8 | 16.6 | 0.245 |
| 4-3430 | 4-4950 | 0.424 | 88.9 | -24.3 | -13.89 | 1.309 | 86.2 | 0.711 | 3.430 | 9.1 | 194.4 | --- | 5.868 | 14.16 | 0.275 | 60.5 | 302.8 | 11.8 | 0.235 |
| 4-3430 | 4-4970 | 0.384 | 91.1 | -15.9 | -10.73 | 1.309 | 86.7 | 0.711 | 3.443 | 8.0 | 194.8 | --- | 5.893 | 11.03 | 0.277 | 59.8 | 303.3 | 8.8 | 0.232 |
| 4-3430 | 4-4990 | 0.361 | 93.2 | -9.8 | -8.71 | 1.310 | 87.1 | 0.712 | 3.456 | 7.0 | 195.2 | --- | 5.918 | 9.02 | 0.279 | 59.1 | 303.9 | 6.8 | 0.231 |
| 4-3430 | 4-5010 | 0.347 | 95.2 | -5.3 | -7.31 | 1.310 | 87.6 | 0.713 | 3.470 | 5.9 | 195.6 | --- | 5.944 | 7.63 | 0.281 | 58.5 | 304.7 | 5.4 | 0.232 |
| 4-3430 | 4-5030 | 0.338 | 97.2 | -1.8 | -6.27 | 1.311 | 88.0 | 0.714 | 3.483 | 4.8 | 196.0 | --- | 5.970 | 6.62 | 0.283 | 57.9 | 305.5 | 4.3 | 0.233 |
| 4-3440 | 4-3780 | 0.661 | 57.8 | 20.8 | 0.32 | 1.451 | 67.6 | 1.08110 | .616 | 43.1 | 127.7 | --- | --- | -1.24 | 0.690 | 158.3 | 321.6 | -2.4 | 0.646 |
| 4-3440 | 4-3800 | 0.647 | 56.0 | 20.5 | 0.35 | 1.428 | 67.3 | 1.02534 | .087 | 44.8 | 131.0 | --- | --- | -1.23 | 0.641 | 157.0 | 321.5 | -2.4 | 0.599 |
| 4-3440 | 4-3820 | 0.636 | 54.5 | 20.3 | 0.39 | 1.409 | 67.1 | 0.97940 | .962 | 46.3 | 134.2 | --- | --- | -1.23 | 0.597 | 155.7 | 321.3 | -2.5 | 0.556 |
| 4-3440 | 4-3840 | 0.627 | 53.2 | 20.0 | 0.42 | 1.393 | 66.9 | 0.94214 | .420 | 47.7 | 137.2 | --- | --- | -1.23 | 0.558 | 154.2 | 321.1 | -2.5 | 0.518 |
| 4-3440 | 4-3860 | 0.619 | 52.0 | 19.8 | 0.46 | 1.380 | 66.7 | 0.911 | 9.337 | 48.9 | 140.0 | --- | --- | -1.23 | 0.522 | 152.7 | 320.8 | -2.5 | 0.484 |
| 4-3440 | 4-3880 | 0.612 | 51.1 | 19.7 | 0.49 | 1.368 | 66.6 | 0.885 | 7.196 | 50.0 | 142.7 | --- | --- | -1.23 | 0.490 | 151.1 | 320.4 | -2.6 | 0.453 |
| 4-3440 | 4-3900 | 0.607 | 50.3 | 19.6 | 0.53 | 1.358 | 66.5 | 0.863 | 6.025 | 50.9 | 145.2 | --- | --- | -1.23 | 0.461 | 149.4 | 320.0 | -2.7 | 0.426 |
| 4-3440 | 4-3920 | 0.601 | 49.6 | 19.5 | 0.56 | 1.350 | 66.5 | 0.845 | 5.292 | 51.7 | 147.6 | --- | --- | -1.24 | 0.435 | 147.6 | 319.5 | -2.7 | 0.400 |
| 4-3440 | 4-3940 | 0.596 | 49.1 | 19.4 | 0.60 | 1.342 | 66.5 | 0.829 | 4.795 | 52.3 | 149.8 | --- | --- | -1.24 | 0.412 | 145.8 | 318.9 | -2.8 | 0.378 |
| 4-3440 | 4-3960 | 0.592 | 48.6 | 19.4 | 0.63 | 1.336 | 66.5 | 0.816 | 4.438 | 52.8 | 151.9 | --- | --- | -1.25 | 0.390 | 143.9 | 318.3 | -2.8 | 0.357 |
| 4-3440 | 4-3980 | 0.587 | 48.3 | 19.4 | 0.67 | 1.331 | 66.5 | 0.804 | 4.171 | 53.2 | 153.9 | --- | --- | -1.25 | 0.370 | 141.8 | 317.6 | -2.9 | 0.338 |
| 4-3440 | 4-4000 | 0.583 | 48.0 | 19.4 | 0.70 | 1.326 | 66.6 | 0.794 | 3.967 | 53.5 | 155.8 | --- | --- | -1.26 | 0.353 | 139.8 | 316.8 | -3.0 | 0.321 |
| 4-3440 | 4-4020 | 0.579 | 47.8 | 19.4 | 0.74 | 1.322 | 66.7 | 0.785 | 3.807 | 53.6 | 157.5 | --- | --- | -1.27 | 0.337 | 137.6 | 316.0 | -3.1 | 0.306 |
| 4-3440 | 4-4040 | 0.575 | 47.7 | 19.5 | 0.78 | 1.319 | 66.8 | 0.778 | 3.680 | 53.7 | 159.2 | --- | --- | -1.28 | 0.322 | 135.4 | 315.1 | -3.2 | 0.292 |
| 4-3440 | 4-4060 | 0.571 | 47.7 | 19.6 | 0.81 | 1.316 | 66.9 | 0.771 | 3.577 | 53.7 | 160.8 | --- | --- | -1.29 | 0.309 | 133.1 | 314.1 | -3.2 | 0.279 |
| 4-3440 | 4-4080 | 0.566 | 47.7 | 19.7 | 0.85 | 1.313 | 67.0 | 0.765 | 3.493 | 53.6 | 162.2 | --- | --- | -1.30 | 0.297 | 130.7 | 313.1 | -3.3 | 0.268 |
| 4-3440 | 4-4100 | 0.562 | 47.8 | 19.8 | 0.89 | 1.311 | 67.2 | 0.760 | 3.424 | 53.4 | 163.7 | --- | --- | -1.31 | 0.287 | 128.3 | 312.1 | -3.4 | 0.258 |
| 4-3440 | 4-4120 | 0.558 | 47.9 | 19.9 | 0.93 | 1.309 | 67.4 | 0.756 | 3.367 | 53.2 | 165.0 | --- | --- | -1.33 | 0.277 | 125.9 | 311.0 | -3.5 | 0.249 |
| 4-3440 | 4-4140 | 0.554 | 48.1 | 20.1 | 0.97 | 1.307 | 67.6 | 0.751 | 3.321 | 52.9 | 166.3 | --- | --- | -1.34 | 0.269 | 123.4 | 309.9 | -3.6 | 0.240 |
| 4-3440 | 4-4160 | 0.549 | 48.3 | 20.3 | 1.01 | 1.306 | 67.8 | 0.748 | 3.282 | 52.6 | 167.5 | --- | --- | -1.36 | 0.262 | 120.9 | 308.7 | -3.7 | 0.233 |
| 4-3440 | 4-4180 | 0.545 | 48.6 | 20.4 | 1.05 | 1.305 | 68.0 | 0.744 | 3.250 | 52.2 | 168.7 | --- | --- | -1.37 | 0.255 | 118.4 | 307.6 | -3.8 | 0.227 |
| 4-3440 | 4-4200 | 0.540 | 48.9 | 20.6 | 1.09 | 1.304 | 68.2 | 0.741 | 3.224 | 51.7 | 169.8 | --- | --- | -1.39 | 0.249 | 115.9 | 306.4 | -3.9 | 0.221 |
| 4-3440 | 4-4220 | 0.536 | 49.2 | 20.8 | 1.14 | 1.303 | 68.5 | 0.739 | 3.203 | 51.3 | 170.9 | --- | --- | -1.42 | 0.245 | 113.4 | 305.3 | -4.0 | 0.216 |
| 4-3440 | 4-4240 | 0.531 | 49.6 | 21.1 | 1.18 | 1.303 | 68.8 | 0.736 | 3.186 | 50.7 | 171.9 | --- | --- | -1.44 | 0.240 | 111.0 | 304.2 | -4.1 | 0.212 |
| 4-3440 | 4-4260 | 0.527 | 50.0 | 21.3 | 1.23 | 1.302 | 69.0 | 0.734 | 3.172 | 50.2 | 172.9 | --- | --- | -1.46 | 0.237 | 108.5 | 303.1 | -4.2 | 0.208 |
| 4-3440 | 4-4280 | 0.522 | 50.4 | 21.6 | 1.27 | 1.302 | 69.3 | 0.732 | 3.162 | 49.6 | 173.8 | --- | --- | -1.49 | 0.234 | 106.1 | 302.1 | -4.2 | 0.205 |
| 4-3440 | 4-4300 | 0.517 | 50.9 | 21.8 | 1.32 | 1.301 | 69.6 | 0.730 | 3.154 | 48.9 | 174.7 | --- | --- | -1.52 | 0.232 | 103.8 | 301.1 | -4.3 | 0.202 |
| 4-3440 | 4-4320 | 0.512 | 51.4 | 22.1 | 1.38 | 1.301 | 69.9 | 0.729 | 3.148 | 48.3 | 175.6 | --- | --- | -1.55 | 0.230 | 101.5 | 300.1 | -4.4 | 0.200 |
| 4-3440 | 4-4340 | 0.507 | 51.9 | 22.4 | 1.43 | 1.301 | 70.2 | 0.727 | 3.145 | 47.6 | 176.5 | --- | --- | -1.58 | 0.228 | 99.2 | 299.2 | -4.5 | 0.198 |
| 4-3440 | 4-4360 | 0.502 | 52.4 | 22.7 | 1.48 | 1.301 | 70.5 | 0.726 | 3.143 | 46.9 | 177.3 | --- | --- | -1.62 | 0.227 | 97.1 | 298.4 | -4.6 | 0.197 |
| 4-3440 | 4-4380 | 0.497 | 53.0 | 23.0 | 1.54 | 1.301 | 70.8 | 0.724 | 3.143 | 46.1 | 178.1 | --- | --- | -1.65 | 0.227 | 95.0 | 297.7 | -4.6 | 0.195 |
| 4-3440 | 4-4400 | 0.492 | 53.6 | 23.4 | 1.60 | 1.301 | 71.1 | 0.723 | 3.145 | 45.4 | 178.9 | --- | --- | -1.70 | 0.226 | 92.9 | 297.0 | -4.7 | 0.195 |
| 4-3440 | 4-4420 | 0.487 | 54.2 | 23.7 | 1.67 | 1.301 | 71.5 | 0.722 | 3.147 | 44.6 | 179.6 | --- | --- | -1.74 | 0.226 | 91.0 | 296.4 | -4.8 | 0.194 |
| 4-3440 | 4-4440 | 0.482 | 54.9 | 24.1 | 1.73 | 1.301 | 71.8 | 0.721 | 3.151 | 43.8 | 180.4 | --- | 5.424 | -1.79 | 0.227 | 89.1 | 295.8 | -4.9 | 0.194 |
| 4-3440 | 4-4460 | 0.477 | 55.6 | 24.5 | 1.81 | 1.301 | 72.2 | 0.720 | 3.156 | 43.0 | 181.1 | --- | 5.429 | -1.84 | 0.227 | 87.2 | 295.3 | -4.9 | 0.194 |
| 4-3440 | 4-4480 | 0.472 | 56.3 | 24.9 | 1.88 | 1.302 | 72.5 | 0.719 | 3.162 | 42.2 | 181.8 | --- | 5.436 | -1.90 | 0.228 | 85.5 | 295.0 | -5.0 | 0.194 |
| 4-3440 | 4-4500 | 0.467 | 57.0 | 25.4 | 1.96 | 1.302 | 72.9 | 0.719 | 3.168 | 41.3 | 182.4 | --- | 5.445 | -1.96 | 0.229 | 83.8 | 294.6 | -5.1 | 0.195 |
| 4-3440 | 4-4520 | 0.462 | 57.8 | 25.8 | 2.05 | 1.302 | 73.2 | 0.718 | 3.176 | 40.5 | 183.1 | --- | 5.456 | -2.03 | 0.230 | 82.2 | 294.4 | -5.2 | 0.195 |
| 4-3440 | 4-4540 | 0.457 | 58.6 | 26.3 | 2.14 | 1.302 | 73.6 | 0.717 | 3.183 | 39.6 | 183.7 | --- | 5.467 | -2.10 | 0.232 | 80.7 | 294.2 | -5.3 | 0.196 |
| 4-3440 | 4-4560 | 0.452 | 59.4 | 26.8 | 2.24 | 1.303 | 74.0 | 0.717 | 3.192 | 38.7 | 184.4 | --- | 5.480 | -2.18 | 0.233 | 79.2 | 294.1 | -5.3 | 0.197 |
| 4-3440 | 4-4580 | 0.447 | 60.2 | 27.4 | 2.35 | 1.303 | 74.3 | 0.716 | 3.201 | 37.8 | 185.0 | --- | 5.494 | -2.27 | 0.235 | 77.8 | 294.1 | -5.4 | 0.198 |
| 4-3440 | 4-4600 | 0.442 | 61.1 | 27.9 | 2.46 | 1.303 | 74.7 | 0.716 | 3.211 | 36.9 | 185.6 | --- | 5.509 | -2.37 | 0.236 | 76.4 | 294.1 | -5.5 | 0.199 |
| 4-3440 | 4-4620 | 0.437 | 62.0 | 28.6 | 2.59 | 1.304 | 75.1 | 0.716 | 3.221 | 35.9 | 186.1 | --- | 5.525 | -2.48 | 0.238 | 75.1 | 294.2 | -5.7 | 0.200 |
| 4-3440 | 4-4640 | 0.432 | 62.9 | 29.2 | 2.72 | 1.304 | 75.5 | 0.715 | 3.231 | 35.0 | 186.7 | --- | 5.542 | -2.60 | 0.240 | 73.9 | 294.3 | -5.8 | 0.201 |
| 4-3440 | 4-4660 | 0.427 | 63.9 | 30.0 | 2.88 | 1.305 | 75.9 | 0.715 | 3.242 | 34.0 | 187.3 | --- | 5.560 | -2.73 | 0.242 | 72.7 | 294.5 | -5.9 | 0.202 |
| 4-3440 | 4-4680 | 0.422 | 64.9 | 30.8 | 3.05 | 1.305 | 76.3 | 0.715 | 3.253 | 33.1 | 187.8 | --- | 5.578 | -2.89 | 0.244 | 71.6 | 294.8 | -6.1 | 0.204 |
| 4-3440 | 4-4700 | 0.418 | 65.9 | 31.6 | 3.24 | 1.305 | 76.7 | 0.715 | 3.264 | 32.1 | 188.3 | --- | 5.597 | -3.06 | 0.246 | 70.5 | 295.1 | -6.2 | 0.205 |
| 4-3440 | 4-4720 | 0.413 | 67.0 | 32.6 | 3.45 | 1.306 | 77.1 | 0.715 | 3.276 | 31.1 | 188.9 | --- | 5.616 | -3.25 | 0.248 | 69.4 | 295.4 | -6.4 | 0.207 |
| 4-3440 | 4-4740 | 0.409 | 68.0 | 33.6 | 3.69 | 1.306 | 77.5 | 0.714 | 3.288 | 30.1 | 189.4 | --- | 5.637 | -3.48 | 0.250 | 68.5 | 295.8 | -6.6 | 0.208 |
| 4-3440 | 4-4760 | 0.405 | 69.1 | 34.8 | 3.97 | 1.307 | 77.9 | 0.714 | 3.300 | 29.1 | 189.9 | --- | 5.657 | -3.74 | 0.252 | 67.5 | 296.3 | -6.9 | 0.210 |
| 4-3440 | 4-4780 | 0.402 | 70.2 | 36.1 | 4.29 | 1.307 | 78.3 | 0.714 | 3.312 | 28.1 | 190.4 | --- | 5.678 | -4.05 | 0.254 | 66.6 | 296.8 | -7.2 | 0.212 |
| 4-3440 | 4-4800 | 0.399 | 71.4 | 37.7 | 4.68 | 1.308 | 78.8 | 0.714 | 3.325 | 27.1 | 190.9 | --- | 5.700 | -4.41 | 0.257 | 65.7 | 297.3 | -7.6 | 0.213 |
| 4-3440 | 4-4820 | 0.396 | 72.5 | 39.5 | 5.13 | 1.308 | 79.2 | 0.715 | 3.337 | 26.1 | 191.4 | --- | 5.722 | -4.86 | 0.259 | 64.8 | 297.9 | -8.0 | 0.215 |
| 4-3440 | 4-4840 | 0.395 | 73.6 | 41.6 | 5.69 | 1.308 | 79.6 | 0.715 | 3.350 | 25.0 | 191.8 | --- | 5.744 | -5.40 | 0.261 | 64.0 | 298.6 | -8.5 | 0.217 |
| 4-3440 | 4-4860 | 0.394 | 74.7 | 44.2 | 6.39 | 1.309 | 80.0 | 0.715 | 3.363 | 24.0 | 192.3 | --- | 5.767 | -6.08 | 0.263 | 63.2 | 299.3 | -9.2 | 0.219 |
| 4-3440 | 4-4880 | 0.396 | 75.7 | 47.4 | 7.30 | 1.309 | 80.5 | 0.715 | 3.376 | 22.9 | 192.7 | --- | 5.790 | -6.97 | 0.266 | 62.5 | 300.0 | -10.1 | 0.222 |
| 4-3440 | 4-4900 | 0.402 | 76.4 | 51.4 | 8.51 | 1.310 | 80.9 | 0.715 | 3.389 | 21.9 | 193.2 | --- | 5.814 | -8.17 | 0.268 | 61.7 | 300.9 | -11.2 | 0.225 |
| 4-3440 | 4-4920 | 0.414 | 76.6 | 56.8 | 10.23 | 1.310 | 81.3 | 0.716 | 3.403 | 20.8 | 193.6 | --- | 5.838 | -9.87 | 0.270 | 61.0 | 301.8 | -12.8 | 0.228 |
| 4-3440 | 4-4940 | 0.438 | 75.2 | 64.1 | 12.83 | 1.311 | 81.8 | 0.716 | 3.416 | 19.8 | 194.1 | --- | 5.862 | -12.45 | 0.272 | 60.3 | 303.0 | -15.2 | 0.234 |
| 4-3440 | 4-4960 | 0.491 | 66.8 | 74.2 | 17.24 | 1.311 | 82.2 | 0.716 | 3.429 | 18.7 | 194.5 | --- | 5.886 | -16.85 | 0.275 | 59.7 | 304.6 | -18.9 | 0.244 |
| 4-3440 | 4-4980 | 0.624 | 349.6 | 82.5 | 26.14 | 1.312 | 82.6 | 0.717 | 3.443 | 17.7 | 194.9 | --- | 5.911 | -25.74 | 0.277 | 59.0 | 307.5 | -25.2 | 0.267 |
| 4-3440 | 4-5000 | 1.031 | 297.7 | 60.1 | 50.25 | 1.312 | 82.9 | 0.717 | 3.457 | 16.9 | 195.3 | --- | 5.936 | -49.82 | 0.279 | 58.4 | 315.5 | -33.4 | 0.351 |
| 4-3440 | 4-5020 | 1.331 | 18.8 | -71.9 | -68.39 | 1.312 | 84.0 | 0.717 | 3.470 | 14.4 | 195.7 | --- | 5.959 | 68.83 | 0.281 | 57.9 | 318.9 | 29.6 | 0.425 |
| 4-3440 | 4-5040 | 0.702 | 80.3 | -52.1 | -31.23 | 1.313 | 84.3 | 0.718 | 3.484 | 13.8 | 196.1 | --- | 5.985 | 31.69 | 0.284 | 57.3 | 310.0 | 23.4 | 0.289 |
| 4-3450 | 4-3790 | 0.758 | 56.5 | 20.5 | 0.35 | 1.440 | 60.9 | 1.04417 | .146 | 56.9 | 132.3 | --- | --- | -1.17 | 0.663 | 159.0 | 320.4 | -2.4 | 0.630 |
| 4-3450 | 4-3810 | 0.744 | 55.2 | 20.2 | 0.38 | 1.419 | 60.8 | 0.99829 | .882 | 58.5 | 135.5 | --- | --- | -1.17 | 0.615 | 157.6 | 320.2 | -2.4 | 0.584 |
| 4-3450 | 4-3830 | 0.733 | 54.1 | 20.1 | 0.41 | 1.401 | 60.7 | 0.96118 | .989 | 59.9 | 138.6 | --- | --- | -1.16 | 0.573 | 156.2 | 319.9 | -2.5 | 0.543 |
| 4-3450 | 4-3850 | 0.723 | 53.1 | 19.9 | 0.45 | 1.386 | 60.7 | 0.93010 | .567 | 61.2 | 141.4 | --- | --- | -1.15 | 0.534 | 154.8 | 319.6 | -2.5 | 0.506 |
| 4-3450 | 4-3870 | 0.714 | 52.4 | 19.8 | 0.48 | 1.373 | 60.6 | 0.906 | 7.702 | 62.2 | 144.1 | --- | --- | -1.15 | 0.500 | 153.2 | 319.2 | -2.6 | 0.474 |
| 4-3450 | 4-3890 | 0.706 | 51.7 | 19.7 | 0.51 | 1.363 | 60.6 | 0.882 | 6.269 | 63.1 | 146.6 | --- | --- | -1.14 | 0.469 | 151.5 | 318.7 | -2.6 | 0.444 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3450 | 4-3910 | 0.699 | 51.2 | 19.6 | 0.55 | 1.353 | 60.7 | 0.864 | 5.416 | 63.8 | 149.0 | --- | --- | -1.14 | 0.440 | 149.8 | 318.2 | -2.7 | 0.417 |
| 4-3450 | 4-3930 | 0.693 | 50.8 | 19.6 | 0.58 | 1.345 | 60.7 | 0.849 | 4.856 | 64.4 | 151.2 | --- | --- | -1.14 | 0.415 | 148.0 | 317.6 | -2.7 | 0.393 |
| 4-3450 | 4-3950 | 0.687 | 50.4 | 19.6 | 0.61 | 1.339 | 60.8 | 0.836 | 4.462 | 64.9 | 153.2 | --- | --- | -1.14 | 0.392 | 146.0 | 316.9 | -2.8 | 0.372 |
| 4-3450 | 4-3970 | 0.681 | 50.2 | 19.6 | 0.64 | 1.333 | 60.9 | 0.825 | 4.174 | 65.2 | 155.1 | --- | --- | -1.14 | 0.371 | 144.0 | 316.2 | -2.8 | 0.352 |
| 4-3450 | 4-3990 | 0.676 | 50.0 | 19.6 | 0.67 | 1.328 | 61.1 | 0.815 | 3.956 | 65.4 | 156.9 | --- | --- | -1.14 | 0.352 | 141.9 | 315.4 | -2.9 | 0.334 |
| 4-3450 | 4-4010 | 0.670 | 49.9 | 19.6 | 0.70 | 1.324 | 61.2 | 0.806 | 3.786 | 65.5 | 158.6 | --- | --- | -1.14 | 0.335 | 139.7 | 314.5 | -3.0 | 0.318 |
| 4-3450 | 4-4030 | 0.665 | 49.9 | 19.7 | 0.74 | 1.320 | 61.4 | 0.799 | 3.652 | 65.5 | 160.2 | --- | --- | -1.14 | 0.319 | 137.5 | 313.6 | -3.0 | 0.304 |
| 4-3450 | 4-4050 | 0.660 | 49.9 | 19.8 | 0.77 | 1.317 | 61.5 | 0.792 | 3.545 | 65.4 | 161.7 | --- | --- | -1.14 | 0.305 | 135.1 | 312.6 | -3.1 | 0.290 |
| 4-3450 | 4-4070 | 0.655 | 50.0 | 19.8 | 0.80 | 1.314 | 61.7 | 0.787 | 3.458 | 65.3 | 163.1 | --- | --- | -1.15 | 0.293 | 132.7 | 311.6 | -3.2 | 0.279 |
| 4-3450 | 4-4090 | 0.649 | 50.1 | 19.9 | 0.83 | 1.312 | 62.0 | 0.781 | 3.388 | 65.0 | 164.5 | --- | --- | -1.15 | 0.282 | 130.2 | 310.6 | -3.3 | 0.268 |
| 4-3450 | 4-4110 | 0.644 | 50.3 | 20.0 | 0.86 | 1.310 | 62.2 | 0.777 | 3.330 | 64.7 | 165.8 | --- | --- | -1.16 | 0.272 | 127.7 | 309.5 | -3.3 | 0.259 |
| 4-3450 | 4-4130 | 0.639 | 50.5 | 20.2 | 0.90 | 1.308 | 62.4 | 0.773 | 3.282 | 64.4 | 167.0 | --- | --- | -1.16 | 0.263 | 125.1 | 308.4 | -3.4 | 0.250 |
| 4-3450 | 4-4150 | 0.634 | 50.7 | 20.3 | 0.93 | 1.307 | 62.7 | 0.769 | 3.243 | 64.0 | 168.2 | --- | --- | -1.17 | 0.255 | 122.5 | 307.3 | -3.5 | 0.243 |
| 4-3450 | 4-4170 | 0.628 | 51.0 | 20.5 | 0.96 | 1.306 | 62.9 | 0.765 | 3.211 | 63.5 | 169.3 | --- | --- | -1.18 | 0.248 | 119.9 | 306.1 | -3.6 | 0.236 |
| 4-3450 | 4-4190 | 0.623 | 51.3 | 20.6 | 1.00 | 1.305 | 63.2 | 0.762 | 3.185 | 63.0 | 170.3 | --- | --- | -1.19 | 0.242 | 117.2 | 305.0 | -3.6 | 0.230 |
| 4-3450 | 4-4210 | 0.618 | 51.6 | 20.8 | 1.03 | 1.304 | 63.5 | 0.759 | 3.164 | 62.5 | 171.3 | --- | --- | -1.20 | 0.237 | 114.6 | 303.9 | -3.7 | 0.225 |
| 4-3450 | 4-4230 | 0.612 | 51.9 | 21.0 | 1.07 | 1.303 | 63.8 | 0.757 | 3.147 | 61.9 | 172.3 | --- | --- | -1.21 | 0.233 | 112.0 | 302.9 | -3.8 | 0.220 |
| 4-3450 | 4-4250 | 0.607 | 52.3 | 21.1 | 1.10 | 1.303 | 64.1 | 0.754 | 3.134 | 61.3 | 173.3 | --- | --- | -1.22 | 0.229 | 109.4 | 301.8 | -3.8 | 0.216 |
| 4-3450 | 4-4270 | 0.601 | 52.7 | 21.3 | 1.14 | 1.302 | 64.4 | 0.752 | 3.124 | 60.7 | 174.2 | --- | --- | -1.24 | 0.226 | 106.9 | 300.8 | -3.9 | 0.213 |
| 4-3450 | 4-4290 | 0.596 | 53.2 | 21.5 | 1.17 | 1.302 | 64.7 | 0.750 | 3.117 | 60.0 | 175.0 | --- | --- | -1.25 | 0.224 | 104.4 | 299.9 | -4.0 | 0.210 |
| 4-3450 | 4-4310 | 0.590 | 53.6 | 21.7 | 1.21 | 1.302 | 65.1 | 0.748 | 3.112 | 59.3 | 175.9 | --- | --- | -1.27 | 0.222 | 102.0 | 299.0 | -4.0 | 0.208 |
| 4-3450 | 4-4330 | 0.585 | 54.1 | 22.0 | 1.25 | 1.302 | 65.4 | 0.746 | 3.109 | 58.6 | 176.7 | --- | --- | -1.29 | 0.220 | 99.6 | 298.1 | -4.1 | 0.206 |
| 4-3450 | 4-4350 | 0.579 | 54.6 | 22.2 | 1.29 | 1.302 | 65.7 | 0.744 | 3.108 | 57.8 | 177.5 | --- | --- | -1.31 | 0.220 | 97.3 | 297.4 | -4.1 | 0.204 |
| 4-3450 | 4-4370 | 0.573 | 55.1 | 22.4 | 1.33 | 1.302 | 66.1 | 0.743 | 3.109 | 57.0 | 178.2 | --- | --- | -1.33 | 0.219 | 95.1 | 296.7 | -4.2 | 0.203 |
| 4-3450 | 4-4390 | 0.567 | 55.7 | 22.7 | 1.37 | 1.302 | 66.4 | 0.741 | 3.111 | 56.2 | 179.0 | --- | --- | -1.35 | 0.219 | 92.9 | 296.0 | -4.2 | 0.202 |
| 4-3450 | 4-4410 | 0.562 | 56.2 | 22.9 | 1.42 | 1.302 | 66.8 | 0.740 | 3.114 | 55.4 | 179.7 | --- | --- | -1.37 | 0.219 | 90.9 | 295.5 | -4.3 | 0.202 |
| 4-3450 | 4-4430 | 0.556 | 56.8 | 23.2 | 1.46 | 1.302 | 67.1 | 0.739 | 3.118 | 54.6 | 180.4 | --- | 5.422 | -1.40 | 0.220 | 88.9 | 295.0 | -4.3 | 0.201 |
| 4-3450 | 4-4450 | 0.550 | 57.4 | 23.5 | 1.51 | 1.302 | 67.5 | 0.737 | 3.124 | 53.7 | 181.1 | --- | 5.428 | -1.43 | 0.220 | 87.0 | 294.5 | -4.4 | 0.201 |
| 4-3450 | 4-4470 | 0.544 | 58.1 | 23.7 | 1.56 | 1.302 | 67.9 | 0.736 | 3.130 | 52.9 | 181.7 | --- | 5.435 | -1.46 | 0.221 | 85.2 | 294.2 | -4.4 | 0.201 |
| 4-3450 | 4-4490 | 0.538 | 58.7 | 24.0 | 1.61 | 1.303 | 68.3 | 0.735 | 3.137 | 52.0 | 182.4 | --- | 5.444 | -1.49 | 0.222 | 83.5 | 293.9 | -4.4 | 0.201 |
| 4-3450 | 4-4510 | 0.532 | 59.4 | 24.3 | 1.66 | 1.303 | 68.6 | 0.734 | 3.145 | 51.1 | 183.0 | --- | 5.455 | -1.53 | 0.224 | 81.8 | 293.7 | -4.5 | 0.202 |
| 4-3450 | 4-4530 | 0.526 | 60.1 | 24.7 | 1.72 | 1.303 | 69.0 | 0.733 | 3.154 | 50.2 | 183.6 | --- | 5.467 | -1.56 | 0.225 | 80.2 | 293.6 | -4.5 | 0.202 |
| 4-3450 | 4-4550 | 0.520 | 60.8 | 25.0 | 1.78 | 1.304 | 69.4 | 0.732 | 3.163 | 49.3 | 184.2 | --- | 5.480 | -1.60 | 0.227 | 78.7 | 293.5 | -4.6 | 0.203 |
| 4-3450 | 4-4570 | 0.514 | 61.6 | 25.3 | 1.84 | 1.304 | 69.8 | 0.732 | 3.173 | 48.4 | 184.8 | --- | 5.494 | -1.65 | 0.229 | 77.2 | 293.5 | -4.6 | 0.204 |
| 4-3450 | 4-4590 | 0.508 | 62.3 | 25.7 | 1.90 | 1.305 | 70.2 | 0.731 | 3.183 | 47.4 | 185.4 | --- | 5.509 | -1.70 | 0.231 | 75.9 | 293.5 | -4.7 | 0.205 |
| 4-3450 | 4-4610 | 0.502 | 63.1 | 26.1 | 1.97 | 1.305 | 70.6 | 0.730 | 3.193 | 46.5 | 185.9 | --- | 5.525 | -1.75 | 0.233 | 74.6 | 293.6 | -4.7 | 0.206 |
| 4-3450 | 4-4630 | 0.496 | 63.9 | 26.5 | 2.05 | 1.305 | 71.0 | 0.729 | 3.204 | 45.5 | 186.5 | --- | 5.542 | -1.81 | 0.235 | 73.3 | 293.8 | -4.8 | 0.207 |
| 4-3450 | 4-4650 | 0.490 | 64.8 | 26.9 | 2.12 | 1.306 | 71.4 | 0.729 | 3.216 | 44.5 | 187.0 | --- | 5.560 | -1.87 | 0.237 | 72.1 | 294.0 | -4.8 | 0.208 |
| 4-3450 | 4-4670 | 0.484 | 65.6 | 27.3 | 2.21 | 1.306 | 71.8 | 0.728 | 3.227 | 43.5 | 187.6 | --- | 5.578 | -1.93 | 0.239 | 71.0 | 294.3 | -4.9 | 0.209 |
| 4-3450 | 4-4690 | 0.479 | 66.5 | 27.7 | 2.30 | 1.307 | 72.2 | 0.728 | 3.239 | 42.6 | 188.1 | --- | 5.597 | -2.01 | 0.241 | 69.9 | 294.6 | -5.0 | 0.210 |
| 4-3450 | 4-4710 | 0.473 | 67.4 | 28.2 | 2.40 | 1.307 | 72.6 | 0.727 | 3.252 | 41.6 | 188.6 | --- | 5.616 | -2.09 | 0.243 | 68.8 | 294.9 | -5.0 | 0.212 |
| 4-3450 | 4-4730 | 0.467 | 68.4 | 28.7 | 2.50 | 1.308 | 73.1 | 0.727 | 3.264 | 40.6 | 189.1 | --- | 5.636 | -2.18 | 0.246 | 67.8 | 295.4 | -5.1 | 0.213 |
| 4-3450 | 4-4750 | 0.461 | 69.3 | 29.3 | 2.62 | 1.308 | 73.5 | 0.726 | 3.277 | 39.5 | 189.6 | --- | 5.657 | -2.28 | 0.248 | 66.9 | 295.8 | -5.2 | 0.214 |
| 4-3450 | 4-4770 | 0.456 | 70.3 | 29.9 | 2.74 | 1.308 | 73.9 | 0.726 | 3.290 | 38.5 | 190.1 | --- | 5.678 | -2.39 | 0.250 | 66.0 | 296.3 | -5.3 | 0.216 |
| 4-3450 | 4-4790 | 0.450 | 71.4 | 30.5 | 2.88 | 1.309 | 74.3 | 0.726 | 3.303 | 37.5 | 190.6 | --- | 5.699 | -2.51 | 0.253 | 65.1 | 296.9 | -5.4 | 0.217 |
| 4-3450 | 4-4810 | 0.444 | 72.4 | 31.2 | 3.04 | 1.309 | 74.8 | 0.725 | 3.316 | 36.4 | 191.0 | --- | 5.721 | -2.65 | 0.255 | 64.3 | 297.4 | -5.5 | 0.218 |
| 4-3450 | 4-4830 | 0.439 | 73.5 | 31.9 | 3.21 | 1.310 | 75.2 | 0.725 | 3.329 | 35.4 | 191.5 | --- | 5.743 | -2.80 | 0.257 | 63.5 | 298.0 | -5.6 | 0.220 |
| 4-3450 | 4-4850 | 0.434 | 74.6 | 32.7 | 3.40 | 1.310 | 75.6 | 0.725 | 3.343 | 34.3 | 192.0 | --- | 5.766 | -2.98 | 0.260 | 62.7 | 298.7 | -5.8 | 0.222 |
| 4-3450 | 4-4870 | 0.429 | 75.8 | 33.7 | 3.62 | 1.311 | 76.1 | 0.725 | 3.356 | 33.3 | 192.4 | --- | 5.789 | -3.19 | 0.262 | 62.0 | 299.4 | -6.0 | 0.223 |
| 4-3450 | 4-4890 | 0.424 | 77.0 | 34.7 | 3.88 | 1.311 | 76.5 | 0.725 | 3.370 | 32.2 | 192.8 | --- | 5.812 | -3.43 | 0.265 | 61.2 | 300.1 | -6.2 | 0.225 |
| 4-3450 | 4-4910 | 0.420 | 78.2 | 35.8 | 4.17 | 1.312 | 77.0 | 0.725 | 3.384 | 31.1 | 193.3 | --- | 5.835 | -3.70 | 0.267 | 60.6 | 300.9 | -6.4 | 0.226 |
| 4-3450 | 4-4930 | 0.416 | 79.5 | 37.2 | 4.52 | 1.312 | 77.4 | 0.724 | 3.398 | 30.1 | 193.7 | --- | 5.859 | -4.04 | 0.269 | 59.9 | 301.6 | -6.7 | 0.228 |
| 4-3450 | 4-4950 | 0.412 | 80.8 | 38.7 | 4.93 | 1.313 | 77.9 | 0.724 | 3.412 | 29.0 | 194.1 | --- | 5.883 | -4.44 | 0.272 | 59.3 | 302.5 | -7.1 | 0.230 |
| 4-3450 | 4-4970 | 0.409 | 82.1 | 40.6 | 5.44 | 1.313 | 78.3 | 0.725 | 3.426 | 27.9 | 194.5 | --- | 5.907 | -4.93 | 0.274 | 58.7 | 303.3 | -7.5 | 0.232 |
| 4-3450 | 4-4990 | 0.408 | 83.4 | 42.8 | 6.07 | 1.313 | 78.8 | 0.725 | 3.440 | 26.8 | 195.0 | --- | 5.932 | -5.55 | 0.277 | 58.1 | 304.2 | -8.1 | 0.234 |
| 4-3450 | 4-5010 | 0.408 | 84.7 | 45.7 | 6.89 | 1.314 | 79.2 | 0.725 | 3.454 | 25.7 | 195.4 | --- | 5.956 | -6.35 | 0.279 | 57.5 | 305.2 | -8.8 | 0.236 |
| 4-3450 | 4-5030 | 0.411 | 86.0 | 49.3 | 7.98 | 1.314 | 79.7 | 0.725 | 3.468 | 24.6 | 195.8 | --- | 5.981 | -7.43 | 0.281 | 56.9 | 306.2 | -9.8 | 0.238 |
| 4-3450 | 4-5050 | 0.420 | 87.0 | 54.1 | 9.52 | 1.315 | 80.2 | 0.725 | 3.482 | 23.5 | 196.2 | --- | 6.006 | -8.95 | 0.284 | 56.4 | 307.3 | -11.2 | 0.241 |
| 4-3460 | 4-3800 | 0.867 | 56.9 | 20.5 | 0.39 | 1.430 | 53.9 | 1.01 | 542.688 | 71.5 | 137.7 | --- | --- | -1.10 | 0.636 | 159.9 | 318.9 | -2.4 | 0.616 |
| 4-3460 | 4-3820 | 0.852 | 56.0 | 20.4 | 0.42 | 1.410 | 54.0 | 0.97 | 829.947 | 72.9 | 140.7 | --- | --- | -1.09 | 0.590 | 158.6 | 318.5 | -2.4 | 0.572 |
| 4-3460 | 4-3840 | 0.839 | 55.3 | 20.2 | 0.45 | 1.393 | 54.1 | 0.94 | 912.430 | 74.1 | 143.5 | --- | --- | -1.08 | 0.548 | 157.2 | 318.2 | -2.5 | 0.532 |
| 4-3460 | 4-3860 | 0.827 | 54.6 | 20.2 | 0.49 | 1.379 | 54.2 | 0.924 | 8.358 | 75.1 | 146.2 | --- | --- | -1.06 | 0.510 | 155.7 | 317.7 | -2.5 | 0.497 |
| 4-3460 | 4-3880 | 0.817 | 54.1 | 20.1 | 0.52 | 1.367 | 54.3 | 0.903 | 6.559 | 75.9 | 148.6 | --- | --- | -1.05 | 0.476 | 154.1 | 317.2 | -2.6 | 0.466 |
| 4-3460 | 4-3900 | 0.808 | 53.7 | 20.0 | 0.55 | 1.357 | 54.4 | 0.886 | 5.554 | 76.6 | 150.9 | --- | --- | -1.05 | 0.446 | 152.3 | 316.6 | -2.6 | 0.437 |
| 4-3460 | 4-3920 | 0.799 | 53.4 | 20.0 | 0.58 | 1.348 | 54.6 | 0.871 | 4.918 | 77.1 | 153.0 | --- | --- | -1.04 | 0.418 | 150.5 | 316.0 | -2.7 | 0.412 |
| 4-3460 | 4-3940 | 0.791 | 53.2 | 20.0 | 0.61 | 1.341 | 54.8 | 0.859 | 4.483 | 77.4 | 154.9 | --- | --- | -1.03 | 0.393 | 148.6 | 315.3 | -2.7 | 0.389 |
| 4-3460 | 4-3960 | 0.784 | 53.1 | 20.0 | 0.64 | 1.335 | 55.0 | 0.848 | 4.170 | 77.6 | 156.7 | --- | --- | -1.03 | 0.371 | 146.6 | 314.5 | -2.8 | 0.368 |
| 4-3460 | 4-3980 | 0.777 | 53.0 | 20.1 | 0.67 | 1.329 | 55.2 | 0.839 | 3.936 | 77.7 | 158.4 | --- | --- | -1.02 | 0.351 | 144.5 | 313.7 | -2.8 | 0.349 |
| 4-3460 | 4-4000 | 0.770 | 53.0 | 20.1 | 0.69 | 1.325 | 55.4 | 0.831 | 3.757 | 77.7 | 160.0 | --- | --- | -1.02 | 0.332 | 142.3 | 312.8 | -2.9 | 0.333 |
| 4-3460 | 4-4020 | 0.763 | 53.0 | 20.2 | 0.72 | 1.321 | 55.6 | 0.824 | 3.617 | 77.7 | 161.5 | --- | --- | -1.01 | 0.316 | 140.0 | 311.9 | -2.9 | 0.317 |
| 4-3460 | 4-4040 | 0.757 | 53.1 | 20.2 | 0.75 | 1.317 | 55.9 | 0.817 | 3.505 | 77.5 | 163.0 | --- | --- | -1.01 | 0.301 | 137.6 | 310.9 | -3.0 | 0.304 |
| 4-3460 | 4-4060 | 0.750 | 53.2 | 20.3 | 0.78 | 1.315 | 56.1 | 0.811 | 3.416 | 77.2 | 164.3 | --- | --- | -1.01 | 0.287 | 135.1 | 309.9 | -3.1 | 0.291 |
| 4-3460 | 4-4080 | 0.744 | 53.4 | 20.4 | 0.81 | 1.312 | 56.4 | 0.806 | 3.344 | 76.9 | 165.6 | --- | --- | -1.01 | 0.275 | 132.5 | 308.8 | -3.1 | 0.280 |
| 4-3460 | 4-4100 | 0.738 | 53.6 | 20.5 | 0.83 | 1.310 | 56.7 | 0.802 | 3.285 | 76.5 | 166.8 | --- | --- | -1.01 | 0.264 | 129.9 | 307.7 | -3.2 | 0.271 |
| 4-3460 | 4-4120 | 0.731 | 53.8 | 20.6 | 0.86 | 1.308 | 57.0 | 0.797 | 3.237 | 76.1 | 167.9 | --- | --- | -1.01 | 0.255 | 127.2 | 306.7 | -3.2 | 0.262 |
| 4-3460 | 4-4140 | 0.725 | 54.0 | 20.7 | 0.89 | 1.307 | 57.3 | 0.793 | 3.197 | 75.6 | 169.0 | --- | --- | -1.01 | 0.246 | 124.4 | 305.6 | -3.3 | 0.254 |
| 4-3460 | 4-4160 | 0.719 | 54.3 | 20.9 | 0.92 | 1.306 | 57.6 | 0.790 | 3.165 | 75.1 | 170.0 | --- | --- | -1.01 | 0.239 | 121.7 | 304.5 | -3.4 | 0.247 |
| 4-3460 | 4-4180 | 0.713 | 54.6 | 21.0 | 0.95 | 1.305 | 57.9 | 0.787 | 3.140 | 74.5 | 171.0 | --- | --- | -1.01 | 0.233 | 118.9 | 303.4 | -3.4 | 0.241 |
| 4-3460 | 4-4200 | 0.706 | 55.0 | 21.1 | 0.97 | 1.304 | 58.3 | 0.783 | 3.119 | 73.9 | 172.0 | --- | --- | -1.02 | 0.227 | 116.1 | 302.3 | -3.5 | 0.236 |
| 4-3460 | 4-4220 | 0.700 | 55.3 | 21.3 | 1.00 | 1.303 | 58.6 | 0.781 | 3.102 | 73.3 | 172.9 | --- | --- | -1.02 | 0.223 | 113.3 | 301.3 | -3.5 | 0.231 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3460 | 4-4240 | 0.694 | 55.7 | 21.4 | 1.03 | 1.303 | 58.9 | 0.778 | 3.090 | 72.6 | 173.7 | --- | --- | -1.03 | 0.219 | 110.5 | 300.3 | -3.6 | 0.227 |
| 4-3460 | 4-4260 | 0.687 | 56.1 | 21.6 | 1.06 | 1.302 | 59.3 | 0.775 | 3.080 | 71.9 | 174.6 | --- | --- | -1.03 | 0.216 | 107.8 | 299.4 | -3.6 | 0.223 |
| 4-3460 | 4-4280 | 0.681 | 56.5 | 21.7 | 1.09 | 1.302 | 59.6 | 0.773 | 3.074 | 71.2 | 175.4 | --- | --- | -1.04 | 0.214 | 105.1 | 298.5 | -3.7 | 0.220 |
| 4-3460 | 4-4300 | 0.675 | 57.0 | 21.9 | 1.12 | 1.302 | 60.0 | 0.771 | 3.069 | 70.4 | 176.2 | --- | --- | -1.05 | 0.212 | 102.5 | 297.7 | -3.7 | 0.218 |
| 4-3460 | 4-4320 | 0.668 | 57.4 | 22.1 | 1.15 | 1.302 | 60.4 | 0.769 | 3.067 | 69.6 | 177.0 | --- | --- | -1.05 | 0.211 | 100.0 | 296.9 | -3.7 | 0.216 |
| 4-3460 | 4-4340 | 0.662 | 57.9 | 22.2 | 1.18 | 1.302 | 60.7 | 0.767 | 3.067 | 68.8 | 177.7 | --- | --- | -1.06 | 0.210 | 97.5 | 296.2 | -3.8 | 0.214 |
| 4-3460 | 4-4360 | 0.655 | 58.4 | 22.4 | 1.21 | 1.302 | 61.1 | 0.765 | 3.068 | 68.0 | 178.4 | --- | --- | -1.07 | 0.209 | 95.1 | 295.5 | -3.8 | 0.213 |
| 4-3460 | 4-4380 | 0.649 | 58.9 | 22.6 | 1.24 | 1.302 | 61.5 | 0.763 | 3.071 | 67.2 | 179.1 | --- | --- | -1.09 | 0.210 | 92.8 | 295.0 | -3.9 | 0.212 |
| 4-3460 | 4-4400 | 0.642 | 59.4 | 22.8 | 1.27 | 1.302 | 61.9 | 0.761 | 3.075 | 66.3 | 179.8 | --- | --- | -1.10 | 0.210 | 90.7 | 294.4 | -3.9 | 0.211 |
| 4-3460 | 4-4420 | 0.636 | 60.0 | 23.0 | 1.30 | 1.302 | 62.3 | 0.760 | 3.080 | 65.5 | 180.5 | --- | 5.421 | -1.11 | 0.211 | 88.6 | 294.0 | -3.9 | 0.210 |
| 4-3460 | 4-4440 | 0.629 | 60.5 | 23.2 | 1.33 | 1.303 | 62.7 | 0.758 | 3.086 | 64.6 | 181.1 | --- | 5.427 | -1.13 | 0.212 | 86.6 | 293.6 | -3.9 | 0.210 |
| 4-3460 | 4-4460 | 0.623 | 61.1 | 23.4 | 1.37 | 1.303 | 63.1 | 0.757 | 3.093 | 63.7 | 181.7 | --- | 5.434 | -1.14 | 0.213 | 84.6 | 293.3 | -4.0 | 0.210 |
| 4-3460 | 4-4480 | 0.616 | 61.7 | 23.6 | 1.40 | 1.303 | 63.5 | 0.755 | 3.101 | 62.8 | 182.3 | --- | 5.444 | -1.16 | 0.214 | 82.8 | 293.1 | -4.0 | 0.210 |
| 4-3460 | 4-4500 | 0.609 | 62.3 | 23.8 | 1.44 | 1.304 | 63.9 | 0.754 | 3.110 | 61.8 | 182.9 | --- | 5.455 | -1.18 | 0.216 | 81.1 | 292.9 | -4.0 | 0.210 |
| 4-3460 | 4-4520 | 0.603 | 63.0 | 24.0 | 1.48 | 1.304 | 64.3 | 0.753 | 3.119 | 60.9 | 183.5 | --- | 5.467 | -1.20 | 0.218 | 79.5 | 292.8 | -4.0 | 0.211 |
| 4-3460 | 4-4540 | 0.596 | 63.6 | 24.3 | 1.51 | 1.304 | 64.7 | 0.751 | 3.129 | 60.0 | 184.1 | --- | 5.480 | -1.22 | 0.219 | 77.9 | 292.8 | -4.1 | 0.211 |
| 4-3460 | 4-4560 | 0.589 | 64.3 | 24.5 | 1.55 | 1.305 | 65.1 | 0.750 | 3.139 | 59.0 | 184.7 | --- | 5.495 | -1.24 | 0.222 | 76.4 | 292.8 | -4.1 | 0.212 |
| 4-3460 | 4-4580 | 0.583 | 64.9 | 24.7 | 1.59 | 1.305 | 65.5 | 0.749 | 3.150 | 58.0 | 185.2 | --- | 5.510 | -1.26 | 0.224 | 75.0 | 292.9 | -4.1 | 0.213 |
| 4-3460 | 4-4600 | 0.576 | 65.6 | 25.0 | 1.64 | 1.306 | 65.9 | 0.748 | 3.161 | 57.1 | 185.8 | --- | 5.526 | -1.29 | 0.226 | 73.6 | 293.0 | -4.1 | 0.213 |
| 4-3460 | 4-4620 | 0.569 | 66.3 | 25.2 | 1.68 | 1.306 | 66.4 | 0.747 | 3.173 | 56.1 | 186.3 | --- | 5.543 | -1.32 | 0.228 | 72.4 | 293.2 | -4.2 | 0.214 |
| 4-3460 | 4-4640 | 0.562 | 67.1 | 25.5 | 1.73 | 1.307 | 66.8 | 0.746 | 3.185 | 55.1 | 186.8 | --- | 5.561 | -1.35 | 0.230 | 71.2 | 293.5 | -4.2 | 0.215 |
| 4-3460 | 4-4660 | 0.556 | 67.8 | 25.8 | 1.78 | 1.307 | 67.2 | 0.745 | 3.197 | 54.1 | 187.3 | --- | 5.580 | -1.38 | 0.233 | 70.0 | 293.7 | -4.2 | 0.216 |
| 4-3460 | 4-4680 | 0.549 | 68.6 | 26.1 | 1.83 | 1.307 | 67.6 | 0.744 | 3.210 | 53.1 | 187.8 | --- | 5.599 | -1.42 | 0.235 | 68.9 | 294.1 | -4.2 | 0.217 |
| 4-3460 | 4-4700 | 0.542 | 69.4 | 26.4 | 1.88 | 1.308 | 68.1 | 0.743 | 3.223 | 52.1 | 188.3 | --- | 5.618 | -1.46 | 0.238 | 67.9 | 294.5 | -4.3 | 0.218 |
| 4-3460 | 4-4720 | 0.536 | 70.2 | 26.7 | 1.94 | 1.308 | 68.5 | 0.743 | 3.236 | 51.0 | 188.8 | --- | 5.639 | -1.50 | 0.240 | 66.9 | 294.9 | -4.3 | 0.219 |
| 4-3460 | 4-4740 | 0.529 | 71.1 | 27.0 | 2.00 | 1.309 | 69.0 | 0.742 | 3.249 | 50.0 | 189.3 | --- | 5.659 | -1.54 | 0.243 | 65.9 | 295.4 | -4.3 | 0.221 |
| 4-3460 | 4-4760 | 0.522 | 71.9 | 27.3 | 2.07 | 1.309 | 69.4 | 0.741 | 3.263 | 49.0 | 189.8 | --- | 5.680 | -1.59 | 0.245 | 65.0 | 295.9 | -4.4 | 0.222 |
| 4-3460 | 4-4780 | 0.516 | 72.8 | 27.6 | 2.13 | 1.310 | 69.8 | 0.740 | 3.276 | 47.9 | 190.2 | --- | 5.702 | -1.65 | 0.248 | 64.2 | 296.4 | -4.4 | 0.223 |
| 4-3460 | 4-4800 | 0.509 | 73.7 | 28.0 | 2.21 | 1.310 | 70.3 | 0.740 | 3.290 | 46.9 | 190.7 | --- | 5.723 | -1.70 | 0.250 | 63.3 | 297.0 | -4.4 | 0.224 |
| 4-3460 | 4-4820 | 0.503 | 74.7 | 28.4 | 2.29 | 1.311 | 70.7 | 0.739 | 3.304 | 45.8 | 191.1 | --- | 5.746 | -1.77 | 0.253 | 62.6 | 297.6 | -4.5 | 0.226 |
| 4-3460 | 4-4840 | 0.496 | 75.6 | 28.8 | 2.37 | 1.311 | 71.2 | 0.738 | 3.318 | 44.8 | 191.6 | --- | 5.768 | -1.84 | 0.256 | 61.8 | 298.3 | -4.5 | 0.227 |
| 4-3460 | 4-4860 | 0.490 | 76.6 | 29.2 | 2.46 | 1.312 | 71.6 | 0.738 | 3.332 | 43.7 | 192.0 | --- | 5.791 | -1.92 | 0.258 | 61.1 | 298.9 | -4.6 | 0.228 |
| 4-3460 | 4-4880 | 0.483 | 77.6 | 29.6 | 2.56 | 1.312 | 72.1 | 0.737 | 3.346 | 42.6 | 192.5 | --- | 5.814 | -2.00 | 0.261 | 60.4 | 299.7 | -4.6 | 0.230 |
| 4-3460 | 4-4900 | 0.477 | 78.7 | 30.1 | 2.67 | 1.313 | 72.5 | 0.737 | 3.361 | 41.5 | 192.9 | --- | 5.837 | -2.10 | 0.263 | 59.7 | 300.4 | -4.7 | 0.231 |
| 4-3460 | 4-4920 | 0.471 | 79.8 | 30.6 | 2.80 | 1.313 | 73.0 | 0.736 | 3.375 | 40.4 | 193.3 | --- | 5.861 | -2.21 | 0.266 | 59.1 | 301.2 | -4.8 | 0.232 |
| 4-3460 | 4-4940 | 0.464 | 80.9 | 31.2 | 2.93 | 1.314 | 73.4 | 0.736 | 3.390 | 39.3 | 193.7 | --- | 5.885 | -2.33 | 0.268 | 58.5 | 302.0 | -4.9 | 0.234 |
| 4-3460 | 4-4960 | 0.458 | 82.0 | 31.8 | 3.08 | 1.314 | 73.9 | 0.736 | 3.404 | 38.3 | 194.1 | --- | 5.909 | -2.46 | 0.271 | 57.9 | 302.8 | -5.0 | 0.235 |
| 4-3460 | 4-4980 | 0.452 | 83.2 | 32.4 | 3.25 | 1.315 | 74.4 | 0.735 | 3.419 | 37.1 | 194.5 | --- | 5.933 | -2.62 | 0.273 | 57.3 | 303.6 | -5.1 | 0.237 |
| 4-3460 | 4-5000 | 0.447 | 84.4 | 33.2 | 3.44 | 1.315 | 74.8 | 0.735 | 3.433 | 36.0 | 194.9 | --- | 5.957 | -2.80 | 0.276 | 56.8 | 304.5 | -5.2 | 0.238 |
| 4-3460 | 4-5020 | 0.441 | 85.7 | 34.0 | 3.66 | 1.316 | 75.3 | 0.735 | 3.448 | 34.9 | 195.3 | --- | 5.982 | -3.01 | 0.278 | 56.3 | 305.4 | -5.4 | 0.239 |
| 4-3460 | 4-5040 | 0.436 | 87.0 | 35.0 | 3.92 | 1.316 | 75.8 | 0.735 | 3.463 | 33.8 | 195.7 | --- | 6.006 | -3.25 | 0.281 | 55.8 | 306.3 | -5.6 | 0.241 |
| 4-3460 | 4-5060 | 0.431 | 88.4 | 36.1 | 4.22 | 1.317 | 76.2 | 0.734 | 3.477 | 32.7 | 196.1 | --- | 6.031 | -3.54 | 0.283 | 55.3 | 307.3 | -5.8 | 0.243 |
| 4-3470 | 4-3810 | 0.984 | 58.7 | 20.8 | 0.44 | 1.420 | 46.8 | 0.995 | 05.949 | 86.7 | 143.6 | --- | --- | -1.01 | 0.610 | 161.4 | 317.0 | -2.4 | 0.606 |
| 4-3470 | 4-3830 | 0.967 | 58.1 | 20.7 | 0.48 | 1.401 | 47.0 | 0.967 | 15.909 | 87.8 | 146.3 | --- | --- | -0.99 | 0.564 | 160.0 | 316.5 | -2.4 | 0.563 |
| 4-3470 | 4-3850 | 0.951 | 57.7 | 20.7 | 0.51 | 1.385 | 47.3 | 0.944 | 9.348 | 88.7 | 148.8 | --- | --- | -0.97 | 0.523 | 158.6 | 316.0 | -2.5 | 0.525 |
| 4-3470 | 4-3870 | 0.938 | 57.3 | 20.6 | 0.54 | 1.372 | 47.5 | 0.926 | 6.962 | 89.4 | 151.1 | --- | --- | -0.96 | 0.486 | 157.0 | 315.5 | -2.5 | 0.491 |
| 4-3470 | 4-3890 | 0.926 | 57.0 | 20.6 | 0.57 | 1.361 | 47.8 | 0.910 | 5.739 | 89.9 | 153.3 | --- | --- | -0.95 | 0.453 | 155.4 | 314.9 | -2.6 | 0.461 |
| 4-3470 | 4-3910 | 0.915 | 56.8 | 20.6 | 0.60 | 1.351 | 48.0 | 0.896 | 5.001 | 90.2 | 155.2 | --- | --- | -0.93 | 0.423 | 153.6 | 314.2 | -2.6 | 0.434 |
| 4-3470 | 4-3930 | 0.904 | 56.7 | 20.6 | 0.63 | 1.343 | 48.3 | 0.885 | 4.513 | 90.4 | 157.0 | --- | --- | -0.92 | 0.396 | 151.7 | 313.4 | -2.6 | 0.409 |
| 4-3470 | 4-3950 | 0.895 | 56.6 | 20.7 | 0.66 | 1.336 | 48.6 | 0.875 | 4.170 | 90.5 | 158.7 | --- | --- | -0.91 | 0.371 | 149.8 | 312.6 | -2.7 | 0.387 |
| 4-3470 | 4-3970 | 0.886 | 56.7 | 20.7 | 0.68 | 1.330 | 48.9 | 0.866 | 3.917 | 90.5 | 160.3 | --- | --- | -0.90 | 0.349 | 147.7 | 311.8 | -2.7 | 0.368 |
| 4-3470 | 4-3990 | 0.877 | 56.7 | 20.8 | 0.71 | 1.325 | 49.2 | 0.858 | 3.726 | 90.3 | 161.7 | --- | --- | -0.89 | 0.329 | 145.4 | 310.9 | -2.8 | 0.350 |
| 4-3470 | 4-4010 | 0.869 | 56.8 | 20.8 | 0.74 | 1.321 | 49.5 | 0.851 | 3.579 | 90.1 | 163.1 | --- | --- | -0.88 | 0.311 | 143.1 | 310.0 | -2.8 | 0.334 |
| 4-3470 | 4-4030 | 0.861 | 56.9 | 20.9 | 0.76 | 1.318 | 49.9 | 0.845 | 3.462 | 89.8 | 164.4 | --- | --- | -0.88 | 0.295 | 140.7 | 309.0 | -2.9 | 0.320 |
| 4-3470 | 4-4050 | 0.853 | 57.1 | 21.0 | 0.79 | 1.315 | 50.2 | 0.839 | 3.370 | 89.5 | 165.6 | --- | --- | -0.87 | 0.280 | 138.1 | 308.0 | -3.0 | 0.307 |
| 4-3470 | 4-4070 | 0.845 | 57.3 | 21.0 | 0.81 | 1.312 | 50.6 | 0.834 | 3.295 | 89.0 | 166.8 | --- | --- | -0.87 | 0.267 | 135.4 | 306.9 | -3.0 | 0.295 |
| 4-3470 | 4-4090 | 0.837 | 57.6 | 21.1 | 0.84 | 1.310 | 50.9 | 0.830 | 3.235 | 88.5 | 167.9 | --- | --- | -0.86 | 0.256 | 132.7 | 305.9 | -3.1 | 0.285 |
| 4-3470 | 4-4110 | 0.830 | 57.8 | 21.2 | 0.86 | 1.308 | 51.3 | 0.825 | 3.186 | 88.0 | 168.9 | --- | --- | -0.86 | 0.245 | 129.8 | 304.8 | -3.1 | 0.276 |
| 4-3470 | 4-4130 | 0.823 | 58.1 | 21.3 | 0.88 | 1.307 | 51.6 | 0.821 | 3.147 | 87.4 | 169.9 | --- | --- | -0.85 | 0.236 | 126.9 | 303.7 | -3.2 | 0.268 |
| 4-3470 | 4-4150 | 0.815 | 58.4 | 21.4 | 0.91 | 1.305 | 52.0 | 0.818 | 3.115 | 86.8 | 170.9 | --- | --- | -0.85 | 0.229 | 123.9 | 302.7 | -3.2 | 0.261 |
| 4-3470 | 4-4170 | 0.808 | 58.8 | 21.6 | 0.93 | 1.304 | 52.4 | 0.814 | 3.089 | 86.2 | 171.8 | --- | --- | -0.85 | 0.222 | 120.9 | 301.7 | -3.2 | 0.254 |
| 4-3470 | 4-4190 | 0.801 | 59.1 | 21.7 | 0.95 | 1.304 | 52.8 | 0.811 | 3.069 | 85.5 | 172.7 | --- | --- | -0.85 | 0.216 | 117.9 | 300.7 | -3.3 | 0.249 |
| 4-3470 | 4-4210 | 0.793 | 59.5 | 21.8 | 0.98 | 1.303 | 53.2 | 0.808 | 3.053 | 84.8 | 173.5 | --- | --- | -0.85 | 0.211 | 114.9 | 299.7 | -3.3 | 0.244 |
| 4-3470 | 4-4230 | 0.786 | 59.9 | 21.9 | 1.00 | 1.302 | 53.5 | 0.805 | 3.041 | 84.0 | 174.3 | --- | --- | -0.85 | 0.207 | 111.9 | 298.8 | -3.4 | 0.240 |
| 4-3470 | 4-4250 | 0.779 | 60.3 | 22.0 | 1.02 | 1.302 | 53.9 | 0.802 | 3.032 | 83.2 | 175.1 | --- | --- | -0.85 | 0.204 | 108.9 | 297.9 | -3.4 | 0.236 |
| 4-3470 | 4-4270 | 0.772 | 60.7 | 22.2 | 1.04 | 1.302 | 54.3 | 0.800 | 3.026 | 82.5 | 175.8 | --- | --- | -0.85 | 0.202 | 106.0 | 297.0 | -3.4 | 0.233 |
| 4-3470 | 4-4290 | 0.764 | 61.1 | 22.3 | 1.07 | 1.302 | 54.8 | 0.797 | 3.022 | 81.6 | 176.6 | --- | --- | -0.85 | 0.200 | 103.1 | 296.3 | -3.5 | 0.230 |
| 4-3470 | 4-4310 | 0.757 | 61.6 | 22.4 | 1.09 | 1.302 | 55.2 | 0.795 | 3.021 | 80.8 | 177.3 | --- | --- | -0.85 | 0.199 | 100.4 | 295.6 | -3.5 | 0.228 |
| 4-3470 | 4-4330 | 0.750 | 62.0 | 22.6 | 1.11 | 1.302 | 55.6 | 0.792 | 3.021 | 79.9 | 178.0 | --- | --- | -0.85 | 0.198 | 97.7 | 294.9 | -3.5 | 0.226 |
| 4-3470 | 4-4350 | 0.743 | 62.5 | 22.7 | 1.14 | 1.302 | 56.0 | 0.790 | 3.023 | 79.1 | 178.6 | --- | --- | -0.86 | 0.198 | 95.1 | 294.3 | -3.5 | 0.224 |
| 4-3470 | 4-4370 | 0.736 | 63.0 | 22.9 | 1.16 | 1.302 | 56.4 | 0.788 | 3.027 | 78.2 | 179.3 | --- | --- | -0.86 | 0.198 | 92.7 | 293.8 | -3.6 | 0.223 |
| 4-3470 | 4-4390 | 0.728 | 63.5 | 23.0 | 1.18 | 1.302 | 56.8 | 0.786 | 3.031 | 77.3 | 179.9 | --- | --- | -0.87 | 0.199 | 90.3 | 293.4 | -3.6 | 0.222 |
| 4-3470 | 4-4410 | 0.721 | 64.0 | 23.2 | 1.21 | 1.302 | 57.2 | 0.784 | 3.037 | 76.4 | 180.5 | --- | 5.419 | -0.87 | 0.200 | 88.1 | 293.0 | -3.6 | 0.222 |
| 4-3470 | 4-4430 | 0.714 | 64.6 | 23.3 | 1.23 | 1.303 | 57.7 | 0.782 | 3.044 | 75.5 | 181.1 | --- | 5.426 | -0.88 | 0.201 | 85.9 | 292.7 | -3.6 | 0.221 |
| 4-3470 | 4-4450 | 0.706 | 65.1 | 23.5 | 1.26 | 1.303 | 58.1 | 0.780 | 3.052 | 74.5 | 181.7 | --- | 5.434 | -0.89 | 0.203 | 83.9 | 292.4 | -3.6 | 0.221 |
| 4-3470 | 4-4470 | 0.699 | 65.7 | 23.6 | 1.28 | 1.303 | 58.5 | 0.779 | 3.061 | 73.6 | 182.3 | --- | 5.444 | -0.89 | 0.204 | 82.0 | 292.2 | -3.7 | 0.221 |
| 4-3470 | 4-4490 | 0.692 | 66.2 | 23.8 | 1.31 | 1.304 | 59.0 | 0.777 | 3.070 | 72.6 | 182.9 | --- | 5.455 | -0.90 | 0.206 | 80.1 | 292.1 | -3.7 | 0.221 |
| 4-3470 | 4-4510 | 0.685 | 66.8 | 23.9 | 1.33 | 1.304 | 59.4 | 0.775 | 3.080 | 71.6 | 183.4 | --- | 5.468 | -0.91 | 0.208 | 78.4 | 292.1 | -3.7 | 0.221 |
| 4-3470 | 4-4530 | 0.677 | 67.4 | 24.1 | 1.36 | 1.304 | 59.8 | 0.774 | 3.090 | 70.7 | 184.0 | --- | 5.482 | -0.92 | 0.210 | 76.8 | 292.1 | -3.7 | 0.221 |
| 4-3470 | 4-4550 | 0.670 | 68.0 | 24.3 | 1.39 | 1.305 | 60.3 | 0.772 | 3.102 | 69.7 | 184.5 | --- | 5.496 | -0.93 | 0.213 | 75.2 | 292.1 | -3.7 | 0.222 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3470 | 4-4570 | 0.663 | 68.7 | 24.4 | 1.41 | 1.305 | 60.7 | 0.771 | 3.113 | 68.7 | 185.0 | --- | 5.512 | -0.94 | 0.215 | 73.8 | 292.3 | -3.7 | 0.222 |
| 4-3470 | 4-4590 | 0.655 | 69.3 | 24.6 | 1.44 | 1.306 | 61.2 | 0.769 | 3.125 | 67.7 | 185.5 | --- | 5.529 | -0.96 | 0.218 | 72.4 | 292.4 | -3.7 | 0.223 |
| 4-3470 | 4-4610 | 0.648 | 69.9 | 24.8 | 1.47 | 1.306 | 61.6 | 0.768 | 3.137 | 66.7 | 186.1 | --- | 5.546 | -0.97 | 0.220 | 71.1 | 292.6 | -3.7 | 0.224 |
| 4-3470 | 4-4630 | 0.641 | 70.6 | 25.0 | 1.50 | 1.307 | 62.0 | 0.766 | 3.150 | 65.7 | 186.5 | --- | 5.564 | -0.99 | 0.223 | 69.9 | 292.9 | -3.7 | 0.224 |
| 4-3470 | 4-4650 | 0.633 | 71.3 | 25.2 | 1.53 | 1.307 | 62.5 | 0.765 | 3.163 | 64.6 | 187.0 | --- | 5.583 | -1.00 | 0.226 | 68.7 | 293.2 | -3.8 | 0.225 |
| 4-3470 | 4-4670 | 0.626 | 72.0 | 25.3 | 1.56 | 1.308 | 62.9 | 0.764 | 3.176 | 63.6 | 187.5 | --- | 5.602 | -1.02 | 0.228 | 67.6 | 293.6 | -3.8 | 0.226 |
| 4-3470 | 4-4690 | 0.618 | 72.7 | 25.5 | 1.60 | 1.308 | 63.4 | 0.763 | 3.190 | 62.6 | 188.0 | --- | 5.622 | -1.04 | 0.231 | 66.5 | 294.0 | -3.8 | 0.227 |
| 4-3470 | 4-4710 | 0.611 | 73.4 | 25.7 | 1.63 | 1.309 | 63.8 | 0.761 | 3.203 | 61.5 | 188.5 | --- | 5.643 | -1.06 | 0.234 | 65.6 | 294.4 | -3.8 | 0.228 |
| 4-3470 | 4-4730 | 0.604 | 74.1 | 25.9 | 1.67 | 1.309 | 64.3 | 0.760 | 3.217 | 60.5 | 188.9 | --- | 5.663 | -1.08 | 0.236 | 64.6 | 294.9 | -3.8 | 0.229 |
| 4-3470 | 4-4750 | 0.596 | 74.9 | 26.1 | 1.70 | 1.310 | 64.7 | 0.759 | 3.231 | 59.4 | 189.4 | --- | 5.685 | -1.10 | 0.239 | 63.7 | 295.4 | -3.8 | 0.230 |
| 4-3470 | 4-4770 | 0.589 | 75.7 | 26.3 | 1.74 | 1.310 | 65.2 | 0.758 | 3.246 | 58.4 | 189.8 | --- | 5.706 | -1.13 | 0.242 | 62.9 | 296.0 | -3.8 | 0.231 |
| 4-3470 | 4-4790 | 0.582 | 76.5 | 26.5 | 1.78 | 1.311 | 65.7 | 0.757 | 3.260 | 57.3 | 190.3 | --- | 5.728 | -1.16 | 0.245 | 62.1 | 296.6 | -3.8 | 0.232 |
| 4-3470 | 4-4810 | 0.575 | 77.3 | 26.8 | 1.83 | 1.311 | 66.1 | 0.756 | 3.275 | 56.2 | 190.7 | --- | 5.750 | -1.19 | 0.248 | 61.3 | 297.2 | -3.8 | 0.233 |
| 4-3470 | 4-4830 | 0.567 | 78.1 | 27.0 | 1.87 | 1.312 | 66.6 | 0.755 | 3.289 | 55.2 | 191.2 | --- | 5.773 | -1.22 | 0.250 | 60.6 | 297.9 | -3.8 | 0.234 |
| 4-3470 | 4-4850 | 0.560 | 79.0 | 27.2 | 1.92 | 1.312 | 67.0 | 0.754 | 3.304 | 54.1 | 191.6 | --- | 5.796 | -1.25 | 0.253 | 59.9 | 298.6 | -3.9 | 0.235 |
| 4-3470 | 4-4870 | 0.553 | 79.8 | 27.4 | 1.97 | 1.313 | 67.5 | 0.753 | 3.319 | 53.0 | 192.0 | --- | 5.819 | -1.29 | 0.256 | 59.2 | 299.3 | -3.9 | 0.237 |
| 4-3470 | 4-4890 | 0.545 | 80.7 | 27.7 | 2.02 | 1.314 | 68.0 | 0.752 | 3.334 | 51.9 | 192.4 | --- | 5.842 | -1.33 | 0.258 | 58.6 | 300.0 | -3.9 | 0.238 |
| 4-3470 | 4-4910 | 0.538 | 81.6 | 28.0 | 2.08 | 1.314 | 68.4 | 0.752 | 3.349 | 50.8 | 192.9 | --- | 5.866 | -1.37 | 0.261 | 58.0 | 300.8 | -3.9 | 0.239 |
| 4-3470 | 4-4930 | 0.531 | 82.6 | 28.2 | 2.14 | 1.315 | 68.9 | 0.751 | 3.364 | 49.7 | 193.3 | --- | 5.889 | -1.42 | 0.264 | 57.4 | 301.6 | -3.9 | 0.240 |
| 4-3470 | 4-4950 | 0.524 | 83.5 | 28.5 | 2.20 | 1.315 | 69.4 | 0.750 | 3.379 | 48.6 | 193.7 | --- | 5.913 | -1.48 | 0.267 | 56.8 | 302.4 | -4.0 | 0.241 |
| 4-3470 | 4-4970 | 0.517 | 84.5 | 28.8 | 2.28 | 1.316 | 69.9 | 0.749 | 3.394 | 47.5 | 194.1 | --- | 5.937 | -1.54 | 0.269 | 56.3 | 303.3 | -4.0 | 0.242 |
| 4-3470 | 4-4990 | 0.510 | 85.6 | 29.1 | 2.35 | 1.316 | 70.3 | 0.749 | 3.409 | 46.4 | 194.5 | --- | 5.962 | -1.60 | 0.272 | 55.8 | 304.1 | -4.0 | 0.244 |
| 4-3470 | 5-5010 | 0.503 | 86.6 | 29.4 | 2.44 | 1.317 | 70.8 | 0.748 | 3.424 | 45.3 | 194.9 | --- | 5.986 | -1.67 | 0.274 | 55.3 | 305.0 | -4.1 | 0.245 |
| 4-3470 | 5-5030 | 0.496 | 87.7 | 29.8 | 2.53 | 1.317 | 71.3 | 0.748 | 3.439 | 44.1 | 195.3 | --- | 6.011 | -1.75 | 0.277 | 54.8 | 305.9 | -4.1 | 0.246 |
| 4-3470 | 5-5050 | 0.489 | 88.8 | 30.2 | 2.63 | 1.317 | 71.8 | 0.747 | 3.455 | 43.0 | 195.6 | --- | 6.035 | -1.84 | 0.280 | 54.3 | 306.9 | -4.1 | 0.247 |
| 4-3470 | 5-5070 | 0.482 | 90.0 | 30.6 | 2.74 | 1.318 | 72.2 | 0.746 | 3.470 | 41.9 | 196.0 | --- | 6.060 | -1.94 | 0.282 | 53.9 | 307.8 | -4.2 | 0.249 |
| 4-3480 | 4-3800 | 1.128 | 62.0 | 21.3 | 0.49 | 1.432 | 39.0 | 1.00 | 944.937 | 101.4 | 147.4 | --- | --- | -0.91 | 0.635 | 164.5 | 315.3 | -2.4 | 0.648 |
| 4-3480 | 4-3820 | 1.105 | 61.5 | 21.3 | 0.53 | 1.411 | 39.4 | 0.98 | 525.428 | 102.3 | 149.9 | --- | --- | -0.89 | 0.584 | 163.3 | 314.8 | -2.4 | 0.601 |
| 4-3480 | 4-3840 | 1.085 | 61.2 | 21.3 | 0.56 | 1.393 | 39.8 | 0.96 | 511.137 | 102.9 | 152.2 | --- | --- | -0.87 | 0.539 | 161.9 | 314.3 | -2.5 | 0.559 |
| 4-3480 | 4-3860 | 1.068 | 61.0 | 21.3 | 0.59 | 1.377 | 40.2 | 0.948 | 7.612 | 103.4 | 154.2 | --- | --- | -0.85 | 0.499 | 160.5 | 313.7 | -2.5 | 0.522 |
| 4-3480 | 4-3880 | 1.052 | 60.8 | 21.3 | 0.62 | 1.365 | 40.6 | 0.934 | 6.030 | 103.7 | 156.1 | --- | --- | -0.83 | 0.462 | 158.9 | 313.0 | -2.5 | 0.490 |
| 4-3480 | 4-3900 | 1.038 | 60.7 | 21.3 | 0.65 | 1.354 | 41.1 | 0.922 | 5.140 | 103.8 | 157.9 | --- | --- | -0.81 | 0.429 | 157.2 | 312.3 | -2.6 | 0.460 |
| 4-3480 | 4-3920 | 1.025 | 60.7 | 21.3 | 0.68 | 1.345 | 41.5 | 0.912 | 4.575 | 103.8 | 159.5 | --- | --- | -0.80 | 0.400 | 155.4 | 311.5 | -2.6 | 0.434 |
| 4-3480 | 4-3940 | 1.013 | 60.7 | 21.4 | 0.71 | 1.338 | 41.9 | 0.903 | 4.188 | 103.7 | 161.0 | --- | --- | -0.78 | 0.373 | 153.5 | 310.7 | -2.6 | 0.411 |
| 4-3480 | 4-3960 | 1.001 | 60.8 | 21.4 | 0.73 | 1.332 | 42.3 | 0.895 | 3.911 | 103.5 | 162.4 | --- | --- | -0.77 | 0.349 | 151.5 | 309.8 | -2.7 | 0.390 |
| 4-3480 | 4-3980 | 0.990 | 61.0 | 21.5 | 0.76 | 1.326 | 42.7 | 0.888 | 3.704 | 103.2 | 163.7 | --- | --- | -0.76 | 0.327 | 149.3 | 308.9 | -2.7 | 0.371 |
| 4-3480 | 4-4000 | 0.980 | 61.1 | 21.5 | 0.78 | 1.322 | 43.1 | 0.881 | 3.546 | 102.8 | 164.9 | --- | --- | -0.74 | 0.307 | 146.9 | 308.0 | -2.8 | 0.354 |
| 4-3480 | 4-4020 | 0.970 | 61.3 | 21.6 | 0.80 | 1.318 | 43.5 | 0.875 | 3.422 | 102.4 | 166.1 | --- | --- | -0.73 | 0.290 | 144.5 | 307.0 | -2.8 | 0.339 |
| 4-3480 | 4-4040 | 0.961 | 61.6 | 21.7 | 0.82 | 1.315 | 44.0 | 0.870 | 3.325 | 101.9 | 167.1 | --- | --- | -0.72 | 0.274 | 141.9 | 306.0 | -2.9 | 0.325 |
| 4-3480 | 4-4060 | 0.951 | 61.8 | 21.7 | 0.85 | 1.312 | 44.4 | 0.865 | 3.247 | 101.3 | 168.2 | --- | --- | -0.72 | 0.259 | 139.1 | 305.0 | -2.9 | 0.313 |
| 4-3480 | 4-4080 | 0.942 | 62.1 | 21.8 | 0.87 | 1.310 | 44.8 | 0.860 | 3.185 | 100.7 | 169.1 | --- | --- | -0.71 | 0.247 | 136.2 | 303.9 | -2.9 | 0.303 |
| 4-3480 | 4-4100 | 0.933 | 62.4 | 21.9 | 0.89 | 1.308 | 45.3 | 0.856 | 3.135 | 100.1 | 170.1 | --- | --- | -0.70 | 0.235 | 133.3 | 302.9 | -3.0 | 0.293 |
| 4-3480 | 4-4120 | 0.925 | 62.7 | 22.0 | 0.91 | 1.306 | 45.7 | 0.852 | 3.095 | 99.4 | 171.0 | --- | --- | -0.69 | 0.225 | 130.2 | 301.9 | -3.0 | 0.284 |
| 4-3480 | 4-4140 | 0.916 | 63.1 | 22.1 | 0.93 | 1.305 | 46.1 | 0.848 | 3.063 | 98.7 | 171.8 | --- | --- | -0.69 | 0.217 | 127.0 | 300.9 | -3.1 | 0.277 |
| 4-3480 | 4-4160 | 0.908 | 63.4 | 22.2 | 0.95 | 1.304 | 46.6 | 0.844 | 3.037 | 97.9 | 172.6 | --- | --- | -0.68 | 0.209 | 123.7 | 299.9 | -3.1 | 0.270 |
| 4-3480 | 4-4180 | 0.899 | 63.8 | 22.3 | 0.97 | 1.303 | 47.0 | 0.841 | 3.017 | 97.1 | 173.4 | --- | --- | -0.68 | 0.203 | 120.4 | 299.0 | -3.1 | 0.264 |
| 4-3480 | 4-4200 | 0.891 | 64.2 | 22.4 | 0.99 | 1.302 | 47.5 | 0.838 | 3.001 | 96.3 | 174.2 | --- | --- | -0.67 | 0.198 | 117.1 | 298.1 | -3.2 | 0.259 |
| 4-3480 | 4-4220 | 0.883 | 64.6 | 22.5 | 1.00 | 1.302 | 47.9 | 0.835 | 2.989 | 95.5 | 174.9 | --- | --- | -0.67 | 0.194 | 113.8 | 297.2 | -3.2 | 0.255 |
| 4-3480 | 4-4240 | 0.875 | 65.0 | 22.6 | 1.02 | 1.301 | 48.4 | 0.832 | 2.981 | 94.7 | 175.6 | --- | --- | -0.67 | 0.190 | 110.5 | 296.4 | -3.2 | 0.251 |
| 4-3480 | 4-4260 | 0.867 | 65.5 | 22.7 | 1.04 | 1.301 | 48.8 | 0.829 | 2.975 | 93.8 | 176.3 | --- | --- | -0.66 | 0.188 | 107.2 | 295.6 | -3.2 | 0.247 |
| 4-3480 | 4-4280 | 0.859 | 65.9 | 22.8 | 1.06 | 1.301 | 49.3 | 0.826 | 2.972 | 92.9 | 176.9 | --- | --- | -0.66 | 0.186 | 104.1 | 294.9 | -3.3 | 0.244 |
| 4-3480 | 4-4300 | 0.850 | 66.4 | 22.9 | 1.08 | 1.301 | 49.7 | 0.823 | 2.971 | 92.0 | 177.6 | --- | --- | -0.66 | 0.185 | 101.0 | 294.3 | -3.3 | 0.242 |
| 4-3480 | 4-4320 | 0.842 | 66.8 | 23.1 | 1.09 | 1.301 | 50.2 | 0.821 | 2.972 | 91.1 | 178.2 | --- | --- | -0.66 | 0.184 | 98.0 | 293.7 | -3.3 | 0.240 |
| 4-3480 | 4-4340 | 0.834 | 67.3 | 23.2 | 1.11 | 1.301 | 50.6 | 0.818 | 2.975 | 90.2 | 178.8 | --- | --- | -0.66 | 0.184 | 95.2 | 293.2 | -3.3 | 0.238 |
| 4-3480 | 4-4360 | 0.826 | 67.8 | 23.3 | 1.13 | 1.301 | 51.1 | 0.816 | 2.979 | 89.2 | 179.4 | --- | --- | -0.66 | 0.185 | 92.5 | 292.7 | -3.3 | 0.237 |
| 4-3480 | 4-4380 | 0.818 | 68.3 | 23.4 | 1.15 | 1.301 | 51.6 | 0.813 | 2.985 | 88.3 | 180.0 | --- | 5.413 | -0.66 | 0.186 | 89.9 | 292.3 | -3.4 | 0.236 |
| 4-3480 | 4-4400 | 0.810 | 68.8 | 23.5 | 1.17 | 1.302 | 52.0 | 0.811 | 2.991 | 87.3 | 180.6 | --- | 5.418 | -0.66 | 0.187 | 87.4 | 292.0 | -3.4 | 0.235 |
| 4-3480 | 4-4420 | 0.803 | 69.3 | 23.6 | 1.18 | 1.302 | 52.5 | 0.809 | 2.999 | 86.4 | 181.2 | --- | 5.425 | -0.66 | 0.189 | 85.1 | 291.8 | -3.4 | 0.234 |
| 4-3480 | 4-4440 | 0.795 | 69.8 | 23.7 | 1.20 | 1.302 | 52.9 | 0.807 | 3.007 | 85.4 | 181.7 | --- | 5.434 | -0.66 | 0.190 | 82.9 | 291.6 | -3.4 | 0.234 |
| 4-3480 | 4-4460 | 0.787 | 70.4 | 23.9 | 1.22 | 1.303 | 53.4 | 0.805 | 3.017 | 84.4 | 182.2 | --- | 5.444 | -0.66 | 0.192 | 80.8 | 291.4 | -3.4 | 0.233 |
| 4-3480 | 4-4480 | 0.779 | 70.9 | 24.0 | 1.24 | 1.303 | 53.9 | 0.803 | 3.027 | 83.4 | 182.8 | --- | 5.456 | -0.67 | 0.195 | 78.9 | 291.4 | -3.4 | 0.233 |
| 4-3480 | 4-4500 | 0.771 | 71.5 | 24.1 | 1.25 | 1.304 | 54.3 | 0.801 | 3.037 | 82.4 | 183.3 | --- | 5.469 | -0.67 | 0.197 | 77.1 | 291.4 | -3.4 | 0.233 |
| 4-3480 | 4-4520 | 0.763 | 72.0 | 24.2 | 1.27 | 1.304 | 54.8 | 0.799 | 3.048 | 81.4 | 183.8 | --- | 5.483 | -0.67 | 0.200 | 75.4 | 291.4 | -3.4 | 0.233 |
| 4-3480 | 4-4540 | 0.755 | 72.6 | 24.3 | 1.29 | 1.305 | 55.3 | 0.797 | 3.060 | 80.4 | 184.3 | --- | 5.499 | -0.68 | 0.202 | 73.7 | 291.5 | -3.4 | 0.234 |
| 4-3480 | 4-4560 | 0.747 | 73.2 | 24.4 | 1.31 | 1.305 | 55.7 | 0.795 | 3.072 | 79.3 | 184.8 | --- | 5.515 | -0.68 | 0.205 | 72.2 | 291.7 | -3.4 | 0.234 |
| 4-3480 | 4-4580 | 0.739 | 73.8 | 24.6 | 1.33 | 1.306 | 56.2 | 0.793 | 3.085 | 78.3 | 185.3 | --- | 5.532 | -0.69 | 0.208 | 70.8 | 291.9 | -3.4 | 0.234 |
| 4-3480 | 4-4600 | 0.731 | 74.4 | 24.7 | 1.35 | 1.306 | 56.7 | 0.791 | 3.098 | 77.3 | 185.8 | --- | 5.550 | -0.69 | 0.211 | 69.5 | 292.1 | -3.4 | 0.235 |
| 4-3480 | 4-4620 | 0.723 | 75.0 | 24.8 | 1.37 | 1.307 | 57.1 | 0.790 | 3.111 | 76.2 | 186.2 | --- | 5.568 | -0.70 | 0.214 | 68.2 | 292.4 | -3.4 | 0.235 |
| 4-3480 | 4-4640 | 0.715 | 75.6 | 24.9 | 1.39 | 1.307 | 57.6 | 0.788 | 3.125 | 75.2 | 186.7 | --- | 5.587 | -0.71 | 0.217 | 67.0 | 292.7 | -3.4 | 0.236 |
| 4-3480 | 4-4660 | 0.707 | 76.3 | 25.1 | 1.41 | 1.308 | 58.1 | 0.786 | 3.139 | 74.1 | 187.2 | --- | 5.607 | -0.71 | 0.220 | 65.9 | 293.1 | -3.4 | 0.237 |
| 4-3480 | 4-4680 | 0.699 | 76.9 | 25.2 | 1.43 | 1.308 | 58.6 | 0.785 | 3.153 | 73.1 | 187.6 | --- | 5.627 | -0.72 | 0.223 | 64.9 | 293.6 | -3.4 | 0.237 |
| 4-3480 | 4-4700 | 0.691 | 77.6 | 25.3 | 1.45 | 1.309 | 59.0 | 0.783 | 3.167 | 72.0 | 188.1 | --- | 5.648 | -0.73 | 0.226 | 63.9 | 294.0 | -3.4 | 0.238 |
| 4-3480 | 4-4720 | 0.684 | 78.2 | 25.4 | 1.47 | 1.309 | 59.5 | 0.782 | 3.182 | 71.0 | 188.5 | --- | 5.669 | -0.74 | 0.229 | 62.9 | 294.5 | -3.4 | 0.239 |
| 4-3480 | 4-4740 | 0.676 | 78.9 | 25.6 | 1.49 | 1.310 | 60.0 | 0.780 | 3.196 | 69.9 | 189.0 | --- | 5.691 | -0.75 | 0.232 | 62.0 | 295.1 | -3.4 | 0.240 |
| 4-3480 | 4-4760 | 0.668 | 79.6 | 25.7 | 1.52 | 1.311 | 60.5 | 0.779 | 3.211 | 68.8 | 189.4 | --- | 5.713 | -0.76 | 0.235 | 61.2 | 295.6 | -3.4 | 0.241 |
| 4-3480 | 4-4780 | 0.660 | 80.3 | 25.8 | 1.54 | 1.311 | 60.9 | 0.777 | 3.226 | 67.7 | 189.8 | --- | 5.735 | -0.78 | 0.238 | 60.4 | 296.3 | -3.4 | 0.242 |
| 4-3480 | 4-4800 | 0.652 | 81.1 | 26.0 | 1.56 | 1.312 | 61.4 | 0.776 | 3.241 | 66.6 | 190.3 | --- | 5.757 | -0.79 | 0.241 | 59.7 | 296.9 | -3.4 | 0.242 |
| 4-3480 | 4-4820 | 0.644 | 81.8 | 26.1 | 1.59 | 1.312 | 61.9 | 0.775 | 3.257 | 65.6 | 190.7 | --- | 5.780 | -0.80 | 0.244 | 59.0 | 297.6 | -3.4 | 0.243 |
| 4-3480 | 4-4840 | 0.636 | 82.5 | 26.2 | 1.62 | 1.313 | 62.4 | 0.773 | 3.272 | 64.5 | 191.1 | --- | 5.803 | -0.82 | 0.247 | 58.3 | 298.3 | -3.4 | 0.244 |
| 4-3480 | 4-4860 | 0.628 | 83.3 | 26.4 | 1.64 | 1.313 | 62.8 | 0.772 | 3.287 | 63.4 | 191.5 | --- | 5.826 | -0.84 | 0.250 | 57.6 | 299.0 | -3.4 | 0.245 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3480 | 4-4880 | 0.620 | 84.1 | 26.5 | 1.67 | 1.314 | 63.3 | 0.771 | 3.303 | 62.3 | 191.9 | --- | 5.850 | -0.85 | 0.253 | 57.0 | 299.7 | -3.4 | 0.246 |
| 4-3480 | 4-4900 | 0.613 | 84.9 | 26.6 | 1.70 | 1.314 | 63.8 | 0.770 | 3.319 | 61.2 | 192.3 | --- | 5.873 | -0.87 | 0.256 | 56.5 | 300.5 | -3.4 | 0.247 |
| 4-3480 | 4-4920 | 0.605 | 85.7 | 26.8 | 1.73 | 1.315 | 64.3 | 0.769 | 3.334 | 60.1 | 192.7 | --- | 5.897 | -0.89 | 0.259 | 55.9 | 301.3 | -3.4 | 0.248 |
| 4-3480 | 4-4940 | 0.597 | 86.5 | 26.9 | 1.77 | 1.315 | 64.8 | 0.768 | 3.350 | 58.9 | 193.1 | --- | 5.921 | -0.92 | 0.262 | 55.4 | 302.1 | -3.4 | 0.249 |
| 4-3480 | 4-4960 | 0.589 | 87.4 | 27.1 | 1.80 | 1.316 | 65.3 | 0.766 | 3.365 | 57.8 | 193.5 | --- | 5.945 | -0.94 | 0.264 | 54.9 | 303.0 | -3.4 | 0.250 |
| 4-3480 | 4-4980 | 0.581 | 88.3 | 27.2 | 1.84 | 1.316 | 65.7 | 0.765 | 3.381 | 56.7 | 193.9 | --- | 5.969 | -0.97 | 0.267 | 54.4 | 303.8 | -3.4 | 0.251 |
| 4-3480 | 4-5000 | 0.574 | 89.1 | 27.4 | 1.88 | 1.317 | 66.2 | 0.764 | 3.397 | 55.6 | 194.3 | --- | 5.994 | -1.00 | 0.270 | 53.9 | 304.7 | -3.4 | 0.252 |
| 4-3480 | 4-5020 | 0.566 | 90.1 | 27.5 | 1.92 | 1.318 | 66.7 | 0.763 | 3.413 | 54.4 | 194.7 | --- | 6.018 | -1.03 | 0.273 | 53.5 | 305.6 | -3.4 | 0.253 |
| 4-3480 | 4-5040 | 0.558 | 91.0 | 27.7 | 1.96 | 1.318 | 67.2 | 0.763 | 3.428 | 53.3 | 195.1 | --- | 6.043 | -1.06 | 0.275 | 53.1 | 306.6 | -3.4 | 0.254 |
| 4-3480 | 4-5060 | 0.551 | 91.9 | 27.9 | 2.01 | 1.319 | 67.7 | 0.762 | 3.444 | 52.2 | 195.5 | --- | 6.067 | -1.10 | 0.278 | 52.6 | 307.5 | -3.4 | 0.256 |
| 4-3480 | 4-5080 | 0.543 | 92.9 | 28.1 | 2.06 | 1.319 | 68.2 | 0.761 | 3.460 | 51.0 | 195.8 | --- | 6.092 | -1.14 | 0.281 | 52.3 | 308.5 | -3.4 | 0.257 |
| 4-3490 | 4-3810 | 1.254 | 65.3 | 21.9 | 0.62 | 1.423 | 31.3 | 0.99858 | .352 | 117.6 | 154.3 | --- | --- | -0.75 | 0.612 | 166.9 | 313.1 | -2.4 | 0.647 |
| 4-3490 | 4-3830 | 1.228 | 65.1 | 21.9 | 0.66 | 1.402 | 31.9 | 0.98315 | .334 | 117.9 | 156.2 | --- | --- | -0.72 | 0.562 | 165.7 | 312.5 | -2.4 | 0.601 |
| 4-3490 | 4-3850 | 1.206 | 65.0 | 21.9 | 0.69 | 1.385 | 32.5 | 0.969 | 8.825 | 118.0 | 157.9 | --- | --- | -0.70 | 0.517 | 164.4 | 311.9 | -2.5 | 0.560 |
| 4-3490 | 4-3870 | 1.186 | 65.0 | 21.9 | 0.72 | 1.371 | 33.0 | 0.958 | 6.542 | 118.0 | 159.5 | --- | --- | -0.68 | 0.476 | 162.9 | 311.2 | -2.5 | 0.524 |
| 4-3490 | 4-3890 | 1.168 | 65.0 | 21.9 | 0.75 | 1.359 | 33.6 | 0.948 | 5.389 | 117.9 | 161.0 | --- | --- | -0.66 | 0.440 | 161.4 | 310.4 | -2.5 | 0.492 |
| 4-3490 | 4-3910 | 1.152 | 65.1 | 22.0 | 0.77 | 1.349 | 34.2 | 0.939 | 4.700 | 117.6 | 162.3 | --- | --- | -0.64 | 0.407 | 159.7 | 309.6 | -2.6 | 0.464 |
| 4-3490 | 4-3930 | 1.136 | 65.2 | 22.0 | 0.80 | 1.340 | 34.7 | 0.931 | 4.248 | 117.2 | 163.6 | --- | --- | -0.62 | 0.378 | 157.9 | 308.8 | -2.6 | 0.439 |
| 4-3490 | 4-3950 | 1.122 | 65.4 | 22.1 | 0.82 | 1.333 | 35.3 | 0.924 | 3.931 | 116.8 | 164.8 | --- | --- | -0.60 | 0.351 | 156.0 | 307.9 | -2.6 | 0.416 |
| 4-3490 | 4-3970 | 1.109 | 65.6 | 22.1 | 0.84 | 1.327 | 35.8 | 0.918 | 3.700 | 116.3 | 165.8 | --- | --- | -0.59 | 0.327 | 153.8 | 307.0 | -2.7 | 0.396 |
| 4-3490 | 4-3990 | 1.096 | 65.8 | 22.2 | 0.86 | 1.322 | 36.3 | 0.912 | 3.527 | 115.7 | 166.9 | --- | --- | -0.58 | 0.305 | 151.6 | 306.1 | -2.7 | 0.378 |
| 4-3490 | 4-4010 | 1.084 | 66.1 | 22.3 | 0.88 | 1.318 | 36.9 | 0.906 | 3.393 | 115.1 | 167.8 | --- | --- | -0.56 | 0.286 | 149.2 | 305.1 | -2.7 | 0.362 |
| 4-3490 | 4-4030 | 1.073 | 66.4 | 22.4 | 0.90 | 1.314 | 37.4 | 0.901 | 3.289 | 114.4 | 168.8 | --- | --- | -0.55 | 0.268 | 146.5 | 304.1 | -2.8 | 0.348 |
| 4-3490 | 4-4050 | 1.062 | 66.7 | 22.4 | 0.92 | 1.311 | 37.9 | 0.897 | 3.206 | 113.7 | 169.6 | --- | --- | -0.54 | 0.252 | 143.8 | 303.1 | -2.8 | 0.335 |
| 4-3490 | 4-4070 | 1.051 | 67.0 | 22.5 | 0.94 | 1.309 | 38.4 | 0.892 | 3.140 | 113.0 | 170.5 | --- | --- | -0.53 | 0.238 | 140.8 | 302.1 | -2.8 | 0.323 |
| 4-3490 | 4-4090 | 1.041 | 67.4 | 22.6 | 0.96 | 1.307 | 38.9 | 0.888 | 3.088 | 112.2 | 171.3 | --- | --- | -0.52 | 0.225 | 137.7 | 301.1 | -2.9 | 0.313 |
| 4-3490 | 4-4110 | 1.031 | 67.8 | 22.7 | 0.97 | 1.305 | 39.5 | 0.884 | 3.046 | 111.4 | 172.0 | --- | --- | -0.51 | 0.214 | 134.4 | 300.2 | -2.9 | 0.304 |
| 4-3490 | 4-4130 | 1.021 | 68.1 | 22.7 | 0.99 | 1.304 | 40.0 | 0.880 | 3.012 | 110.6 | 172.8 | --- | --- | -0.51 | 0.204 | 131.0 | 299.2 | -2.9 | 0.296 |
| 4-3490 | 4-4150 | 1.011 | 68.5 | 22.8 | 1.00 | 1.303 | 40.5 | 0.876 | 2.986 | 109.7 | 173.5 | --- | --- | -0.50 | 0.196 | 127.5 | 298.3 | -3.0 | 0.289 |
| 4-3490 | 4-4170 | 1.002 | 68.9 | 22.9 | 1.02 | 1.302 | 41.0 | 0.873 | 2.965 | 108.8 | 174.2 | --- | --- | -0.49 | 0.189 | 123.9 | 297.4 | -3.0 | 0.283 |
| 4-3490 | 4-4190 | 0.992 | 69.4 | 23.0 | 1.03 | 1.301 | 41.5 | 0.869 | 2.949 | 107.9 | 174.8 | --- | --- | -0.49 | 0.183 | 120.2 | 296.5 | -3.0 | 0.277 |
| 4-3490 | 4-4210 | 0.983 | 69.8 | 23.1 | 1.05 | 1.300 | 42.0 | 0.866 | 2.938 | 107.0 | 175.5 | --- | --- | -0.48 | 0.178 | 116.5 | 295.7 | -3.0 | 0.272 |
| 4-3490 | 4-4230 | 0.974 | 70.2 | 23.2 | 1.06 | 1.300 | 42.5 | 0.863 | 2.929 | 106.1 | 176.1 | --- | --- | -0.48 | 0.174 | 112.8 | 295.0 | -3.1 | 0.268 |
| 4-3490 | 4-4250 | 0.965 | 70.7 | 23.3 | 1.08 | 1.300 | 43.1 | 0.860 | 2.924 | 105.2 | 176.7 | --- | --- | -0.47 | 0.172 | 109.1 | 294.3 | -3.1 | 0.264 |
| 4-3490 | 4-4270 | 0.956 | 71.1 | 23.3 | 1.09 | 1.300 | 43.6 | 0.857 | 2.921 | 104.2 | 177.3 | --- | --- | -0.47 | 0.170 | 105.5 | 293.7 | -3.1 | 0.261 |
| 4-3490 | 4-4290 | 0.947 | 71.6 | 23.4 | 1.10 | 1.300 | 44.1 | 0.854 | 2.921 | 103.2 | 177.9 | --- | --- | -0.47 | 0.169 | 102.0 | 293.1 | -3.1 | 0.258 |
| 4-3490 | 4-4310 | 0.938 | 72.1 | 23.5 | 1.12 | 1.300 | 44.6 | 0.851 | 2.922 | 102.3 | 178.5 | --- | --- | -0.46 | 0.168 | 98.7 | 292.6 | -3.1 | 0.256 |
| 4-3490 | 4-4330 | 0.929 | 72.6 | 23.6 | 1.13 | 1.300 | 45.1 | 0.848 | 2.925 | 101.3 | 179.0 | --- | --- | -0.46 | 0.168 | 95.4 | 292.1 | -3.1 | 0.254 |
| 4-3490 | 4-4350 | 0.921 | 73.1 | 23.7 | 1.14 | 1.300 | 45.6 | 0.845 | 2.930 | 100.3 | 179.6 | --- | --- | -0.46 | 0.169 | 92.4 | 291.7 | -3.2 | 0.252 |
| 4-3490 | 4-4370 | 0.912 | 73.6 | 23.8 | 1.15 | 1.300 | 46.1 | 0.843 | 2.936 | 99.3 | 180.1 | --- | 5.411 | -0.45 | 0.170 | 89.5 | 291.4 | -3.2 | 0.251 |
| 4-3490 | 4-4390 | 0.903 | 74.1 | 23.9 | 1.17 | 1.301 | 46.6 | 0.840 | 2.943 | 98.3 | 180.6 | --- | 5.416 | -0.45 | 0.172 | 86.7 | 291.1 | -3.2 | 0.250 |
| 4-3490 | 4-4410 | 0.895 | 74.6 | 23.9 | 1.18 | 1.301 | 47.1 | 0.838 | 2.951 | 97.3 | 181.1 | --- | 5.424 | -0.45 | 0.174 | 84.1 | 290.9 | -3.2 | 0.249 |
| 4-3490 | 4-4430 | 0.886 | 75.1 | 24.0 | 1.19 | 1.301 | 47.6 | 0.835 | 2.960 | 96.2 | 181.6 | --- | 5.433 | -0.45 | 0.176 | 81.7 | 290.8 | -3.2 | 0.248 |
| 4-3490 | 4-4450 | 0.877 | 75.6 | 24.1 | 1.20 | 1.302 | 48.1 | 0.833 | 2.970 | 95.2 | 182.1 | --- | 5.444 | -0.45 | 0.179 | 79.5 | 290.7 | -3.2 | 0.248 |
| 4-3490 | 4-4470 | 0.869 | 76.2 | 24.2 | 1.21 | 1.302 | 48.6 | 0.830 | 2.981 | 94.2 | 182.6 | --- | 5.456 | -0.45 | 0.182 | 77.4 | 290.7 | -3.2 | 0.247 |
| 4-3490 | 4-4490 | 0.860 | 76.7 | 24.3 | 1.23 | 1.303 | 49.1 | 0.828 | 2.992 | 93.1 | 183.1 | --- | 5.470 | -0.45 | 0.184 | 75.4 | 290.7 | -3.2 | 0.247 |
| 4-3490 | 4-4510 | 0.852 | 77.2 | 24.4 | 1.24 | 1.303 | 49.6 | 0.826 | 3.004 | 92.1 | 183.6 | --- | 5.485 | -0.45 | 0.187 | 73.6 | 290.8 | -3.2 | 0.247 |
| 4-3490 | 4-4530 | 0.843 | 77.8 | 24.5 | 1.25 | 1.304 | 50.1 | 0.824 | 3.016 | 91.0 | 184.1 | --- | 5.501 | -0.45 | 0.191 | 71.9 | 290.9 | -3.2 | 0.247 |
| 4-3490 | 4-4550 | 0.835 | 78.4 | 24.5 | 1.26 | 1.304 | 50.6 | 0.822 | 3.029 | 90.0 | 184.5 | --- | 5.518 | -0.45 | 0.194 | 70.3 | 291.1 | -3.2 | 0.247 |
| 4-3490 | 4-4570 | 0.826 | 78.9 | 24.6 | 1.27 | 1.305 | 51.1 | 0.819 | 3.042 | 88.9 | 185.0 | --- | 5.535 | -0.45 | 0.197 | 68.8 | 291.4 | -3.2 | 0.247 |
| 4-3490 | 4-4590 | 0.818 | 79.5 | 24.7 | 1.29 | 1.306 | 51.6 | 0.817 | 3.056 | 87.9 | 185.4 | --- | 5.553 | -0.45 | 0.200 | 67.4 | 291.7 | -3.2 | 0.248 |
| 4-3490 | 4-4610 | 0.809 | 80.1 | 24.8 | 1.30 | 1.306 | 52.1 | 0.815 | 3.070 | 86.8 | 185.9 | --- | 5.572 | -0.45 | 0.204 | 66.1 | 292.0 | -3.2 | 0.248 |
| 4-3490 | 4-4630 | 0.801 | 80.7 | 24.9 | 1.31 | 1.307 | 52.6 | 0.813 | 3.084 | 85.7 | 186.3 | --- | 5.592 | -0.46 | 0.207 | 64.9 | 292.3 | -3.2 | 0.249 |
| 4-3490 | 4-4650 | 0.792 | 81.3 | 25.0 | 1.32 | 1.307 | 53.1 | 0.811 | 3.099 | 84.6 | 186.8 | --- | 5.612 | -0.46 | 0.210 | 63.8 | 292.8 | -3.2 | 0.249 |
| 4-3490 | 4-4670 | 0.784 | 81.9 | 25.0 | 1.33 | 1.308 | 53.6 | 0.809 | 3.113 | 83.6 | 187.2 | --- | 5.633 | -0.46 | 0.214 | 62.8 | 293.2 | -3.2 | 0.250 |
| 4-3490 | 4-4690 | 0.775 | 82.5 | 25.1 | 1.35 | 1.308 | 54.1 | 0.807 | 3.128 | 82.5 | 187.6 | --- | 5.654 | -0.46 | 0.217 | 61.8 | 293.7 | -3.2 | 0.250 |
| 4-3490 | 4-4710 | 0.767 | 83.1 | 25.2 | 1.36 | 1.309 | 54.6 | 0.806 | 3.143 | 81.4 | 188.1 | --- | 5.676 | -0.47 | 0.221 | 60.8 | 294.2 | -3.2 | 0.251 |
| 4-3490 | 4-4730 | 0.758 | 83.8 | 25.3 | 1.37 | 1.310 | 55.1 | 0.804 | 3.159 | 80.3 | 188.5 | --- | 5.697 | -0.47 | 0.224 | 60.0 | 294.8 | -3.1 | 0.251 |
| 4-3490 | 4-4750 | 0.750 | 84.4 | 25.3 | 1.39 | 1.310 | 55.6 | 0.802 | 3.174 | 79.2 | 188.9 | --- | 5.720 | -0.48 | 0.227 | 59.2 | 295.4 | -3.1 | 0.252 |
| 4-3490 | 4-4770 | 0.742 | 85.0 | 25.4 | 1.40 | 1.311 | 56.1 | 0.800 | 3.190 | 78.1 | 189.3 | --- | 5.742 | -0.48 | 0.231 | 58.4 | 296.0 | -3.1 | 0.253 |
| 4-3490 | 4-4790 | 0.733 | 85.7 | 25.5 | 1.41 | 1.311 | 56.6 | 0.799 | 3.205 | 77.0 | 189.7 | --- | 5.765 | -0.49 | 0.234 | 57.7 | 296.6 | -3.1 | 0.253 |
| 4-3490 | 4-4810 | 0.725 | 86.4 | 25.6 | 1.43 | 1.312 | 57.1 | 0.797 | 3.221 | 75.9 | 190.1 | --- | 5.788 | -0.49 | 0.237 | 57.0 | 297.3 | -3.1 | 0.254 |
| 4-3490 | 4-4830 | 0.716 | 87.1 | 25.6 | 1.44 | 1.313 | 57.6 | 0.795 | 3.237 | 74.8 | 190.5 | --- | 5.811 | -0.50 | 0.240 | 56.3 | 298.0 | -3.1 | 0.255 |
| 4-3490 | 4-4850 | 0.708 | 87.7 | 25.7 | 1.46 | 1.313 | 58.1 | 0.794 | 3.253 | 73.7 | 190.9 | --- | 5.835 | -0.50 | 0.243 | 55.7 | 298.7 | -3.1 | 0.256 |
| 4-3490 | 4-4870 | 0.700 | 88.4 | 25.8 | 1.47 | 1.314 | 58.6 | 0.792 | 3.269 | 72.6 | 191.3 | --- | 5.859 | -0.51 | 0.247 | 55.1 | 299.5 | -3.1 | 0.256 |
| 4-3490 | 4-4890 | 0.691 | 89.2 | 25.9 | 1.49 | 1.314 | 59.1 | 0.791 | 3.285 | 71.5 | 191.7 | --- | 5.882 | -0.52 | 0.250 | 54.6 | 300.3 | -3.1 | 0.257 |
| 4-3490 | 4-4910 | 0.683 | 89.9 | 25.9 | 1.50 | 1.315 | 59.6 | 0.789 | 3.301 | 70.3 | 192.1 | --- | 5.906 | -0.53 | 0.253 | 54.1 | 301.1 | -3.0 | 0.258 |
| 4-3490 | 4-4930 | 0.675 | 90.6 | 26.0 | 1.52 | 1.315 | 60.1 | 0.788 | 3.318 | 69.2 | 192.5 | --- | 5.930 | -0.54 | 0.256 | 53.6 | 301.9 | -3.0 | 0.259 |
| 4-3490 | 4-4950 | 0.666 | 91.4 | 26.1 | 1.54 | 1.316 | 60.6 | 0.786 | 3.334 | 68.1 | 192.9 | --- | 5.955 | -0.55 | 0.259 | 53.1 | 302.8 | -3.0 | 0.260 |
| 4-3490 | 4-4970 | 0.658 | 92.1 | 26.2 | 1.56 | 1.316 | 61.1 | 0.785 | 3.350 | 67.0 | 193.3 | --- | 5.979 | -0.56 | 0.262 | 52.7 | 303.6 | -3.0 | 0.261 |
| 4-3490 | 4-4990 | 0.650 | 92.9 | 26.2 | 1.57 | 1.317 | 61.6 | 0.783 | 3.366 | 65.8 | 193.7 | --- | 6.004 | -0.57 | 0.265 | 52.2 | 304.5 | -3.0 | 0.261 |
| 4-3490 | 4-5010 | 0.642 | 93.7 | 26.3 | 1.59 | 1.318 | 62.1 | 0.782 | 3.383 | 64.7 | 194.0 | --- | 6.028 | -0.58 | 0.268 | 51.8 | 305.4 | -3.0 | 0.262 |
| 4-3490 | 4-5030 | 0.633 | 94.5 | 26.4 | 1.61 | 1.318 | 62.6 | 0.781 | 3.399 | 63.6 | 194.4 | --- | 6.053 | -0.59 | 0.271 | 51.4 | 306.3 | -2.9 | 0.263 |
| 4-3490 | 4-5050 | 0.625 | 95.3 | 26.4 | 1.64 | 1.319 | 63.1 | 0.780 | 3.415 | 62.4 | 194.8 | --- | 6.077 | -0.61 | 0.274 | 51.1 | 307.3 | -2.9 | 0.264 |
| 4-3490 | 4-5070 | 0.617 | 96.2 | 26.5 | 1.66 | 1.319 | 63.6 | 0.778 | 3.431 | 61.3 | 195.2 | --- | 6.102 | -0.62 | 0.276 | 50.7 | 308.2 | -2.9 | 0.265 |
| 4-3490 | 4-5090 | 0.609 | 97.0 | 26.6 | 1.68 | 1.320 | 64.1 | 0.777 | 3.448 | 60.1 | 195.5 | --- | 6.127 | -0.64 | 0.279 | 50.4 | 309.2 | -2.9 | 0.266 |
| 4-3500 | 4-3840 | 1.352 | 69.3 | 22.5 | 0.88 | 1.395 | 24.2 | 0.98611 | .598 | 133.5 | 162.3 | --- | --- | -0.47 | 0.542 | 168.6 | 310.1 | -2.4 | 0.606 |
| 4-3500 | 4-3860 | 1.327 | 69.4 | 22.5 | 0.90 | 1.379 | 25.0 | 0.978 | 7.538 | 133.0 | 163.5 | --- | --- | -0.44 | 0.497 | 167.4 | 309.4 | -2.5 | 0.567 |
| 4-3500 | 4-3880 | 1.304 | 69.5 | 22.5 | 0.93 | 1.365 | 25.7 | 0.971 | 5.856 | 132.4 | 164.6 | --- | --- | -0.42 | 0.457 | 166.0 | 308.7 | -2.5 | 0.531 |
| 4-3500 | 4-3900 | 1.284 | 69.7 | 22.6 | 0.95 | 1.353 | 26.4 | 0.964 | 4.946 | 131.8 | 165.6 | --- | --- | -0.40 | 0.420 | 164.5 | 307.9 | -2.5 | 0.500 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3500 | 4-3920 | 1.265 | 69.9 | 22.6 | 0.97 | 1.344 | 27.2 | 0.958 | 4.382 | 131.1 | 166.5 | --- | --- | -0.39 | 0.388 | 162.9 | 307.0 | -2.5 | 0.473 |
| 4-3500 | 4-3940 | 1.248 | 70.2 | 22.7 | 0.99 | 1.335 | 27.8 | 0.952 | 4.002 | 130.4 | 167.4 | --- | --- | -0.37 | 0.358 | 161.1 | 306.2 | -2.6 | 0.448 |
| 4-3500 | 4-3960 | 1.232 | 70.5 | 22.8 | 1.00 | 1.329 | 28.5 | 0.946 | 3.733 | 129.7 | 168.2 | --- | --- | -0.36 | 0.331 | 159.2 | 305.2 | -2.6 | 0.426 |
| 4-3500 | 4-3980 | 1.217 | 70.8 | 22.8 | 1.02 | 1.323 | 29.2 | 0.941 | 3.534 | 128.9 | 169.0 | --- | --- | -0.35 | 0.307 | 157.0 | 304.3 | -2.6 | 0.407 |
| 4-3500 | 4-4000 | 1.203 | 71.1 | 22.9 | 1.03 | 1.318 | 29.8 | 0.936 | 3.384 | 128.0 | 169.8 | --- | --- | -0.34 | 0.285 | 154.7 | 303.4 | -2.7 | 0.389 |
| 4-3500 | 4-4020 | 1.189 | 71.5 | 22.9 | 1.05 | 1.314 | 30.5 | 0.932 | 3.268 | 127.2 | 170.5 | --- | --- | -0.33 | 0.265 | 152.2 | 302.4 | -2.7 | 0.374 |
| 4-3500 | 4-4040 | 1.176 | 71.9 | 23.0 | 1.06 | 1.311 | 31.1 | 0.928 | 3.177 | 126.3 | 171.2 | --- | --- | -0.32 | 0.247 | 149.5 | 301.4 | -2.7 | 0.360 |
| 4-3500 | 4-4060 | 1.164 | 72.3 | 23.1 | 1.07 | 1.308 | 31.7 | 0.923 | 3.106 | 125.4 | 171.9 | --- | --- | -0.31 | 0.231 | 146.6 | 300.5 | -2.8 | 0.348 |
| 4-3500 | 4-4080 | 1.152 | 72.7 | 23.2 | 1.08 | 1.306 | 32.3 | 0.919 | 3.049 | 124.4 | 172.5 | --- | --- | -0.30 | 0.216 | 143.5 | 299.5 | -2.8 | 0.337 |
| 4-3500 | 4-4100 | 1.140 | 73.1 | 23.2 | 1.09 | 1.304 | 33.0 | 0.915 | 3.004 | 123.5 | 173.2 | --- | --- | -0.30 | 0.203 | 140.1 | 298.6 | -2.8 | 0.327 |
| 4-3500 | 4-4120 | 1.129 | 73.5 | 23.3 | 1.11 | 1.302 | 33.6 | 0.912 | 2.968 | 122.5 | 173.8 | --- | --- | -0.29 | 0.192 | 136.5 | 297.7 | -2.8 | 0.318 |
| 4-3500 | 4-4140 | 1.118 | 74.0 | 23.4 | 1.12 | 1.301 | 34.1 | 0.908 | 2.940 | 121.6 | 174.4 | --- | --- | -0.28 | 0.183 | 132.7 | 296.8 | -2.9 | 0.310 |
| 4-3500 | 4-4160 | 1.107 | 74.4 | 23.4 | 1.12 | 1.300 | 34.7 | 0.904 | 2.918 | 120.6 | 175.0 | --- | --- | -0.28 | 0.174 | 128.8 | 296.0 | -2.9 | 0.304 |
| 4-3500 | 4-4180 | 1.096 | 74.9 | 23.5 | 1.13 | 1.299 | 35.3 | 0.901 | 2.901 | 119.6 | 175.5 | --- | --- | -0.27 | 0.167 | 124.7 | 295.2 | -2.9 | 0.298 |
| 4-3500 | 4-4200 | 1.086 | 75.3 | 23.6 | 1.14 | 1.299 | 35.9 | 0.898 | 2.889 | 118.6 | 176.1 | --- | --- | -0.27 | 0.162 | 120.5 | 294.5 | -2.9 | 0.292 |
| 4-3500 | 4-4220 | 1.076 | 75.8 | 23.6 | 1.15 | 1.299 | 36.5 | 0.894 | 2.880 | 117.6 | 176.6 | --- | --- | -0.26 | 0.157 | 116.2 | 293.8 | -2.9 | 0.288 |
| 4-3500 | 4-4240 | 1.066 | 76.3 | 23.7 | 1.16 | 1.298 | 37.1 | 0.891 | 2.875 | 116.5 | 177.1 | --- | --- | -0.26 | 0.154 | 112.0 | 293.2 | -3.0 | 0.284 |
| 4-3500 | 4-4260 | 1.056 | 76.7 | 23.8 | 1.17 | 1.298 | 37.6 | 0.888 | 2.872 | 115.5 | 177.7 | --- | --- | -0.25 | 0.152 | 107.8 | 292.6 | -3.0 | 0.280 |
| 4-3500 | 4-4280 | 1.046 | 77.2 | 23.8 | 1.17 | 1.298 | 38.2 | 0.885 | 2.871 | 114.5 | 178.2 | --- | --- | -0.25 | 0.151 | 103.7 | 292.1 | -3.0 | 0.277 |
| 4-3500 | 4-4300 | 1.036 | 77.7 | 23.9 | 1.18 | 1.298 | 38.8 | 0.882 | 2.873 | 113.4 | 178.7 | --- | --- | -0.25 | 0.150 | 99.8 | 291.6 | -3.0 | 0.274 |
| 4-3500 | 4-4320 | 1.027 | 78.2 | 24.0 | 1.19 | 1.298 | 39.3 | 0.879 | 2.876 | 112.4 | 179.2 | --- | --- | -0.24 | 0.151 | 96.0 | 291.2 | -3.0 | 0.272 |
| 4-3500 | 4-4340 | 1.017 | 78.7 | 24.0 | 1.20 | 1.299 | 39.9 | 0.876 | 2.881 | 111.3 | 179.6 | --- | --- | -0.24 | 0.152 | 92.5 | 290.9 | -3.0 | 0.270 |
| 4-3500 | 4-4360 | 1.008 | 79.2 | 24.1 | 1.20 | 1.299 | 40.4 | 0.873 | 2.888 | 110.3 | 180.1 | --- | 5.409 | -0.24 | 0.153 | 89.1 | 290.6 | -3.0 | 0.268 |
| 4-3500 | 4-4380 | 0.998 | 79.7 | 24.1 | 1.21 | 1.299 | 41.0 | 0.870 | 2.895 | 109.2 | 180.6 | --- | 5.415 | -0.24 | 0.155 | 86.0 | 290.4 | -3.0 | 0.267 |
| 4-3500 | 4-4400 | 0.989 | 80.2 | 24.2 | 1.22 | 1.300 | 41.5 | 0.868 | 2.904 | 108.1 | 181.1 | --- | 5.422 | -0.24 | 0.158 | 83.1 | 290.3 | -3.0 | 0.266 |
| 4-3500 | 4-4420 | 0.980 | 80.8 | 24.3 | 1.22 | 1.300 | 42.1 | 0.865 | 2.913 | 107.1 | 181.5 | --- | 5.432 | -0.23 | 0.160 | 80.4 | 290.2 | -3.0 | 0.265 |
| 4-3500 | 4-4440 | 0.970 | 81.3 | 24.3 | 1.23 | 1.300 | 42.6 | 0.862 | 2.923 | 106.0 | 182.0 | --- | 5.444 | -0.23 | 0.163 | 77.9 | 290.1 | -3.0 | 0.264 |
| 4-3500 | 4-4460 | 0.961 | 81.8 | 24.4 | 1.24 | 1.301 | 43.2 | 0.860 | 2.934 | 104.9 | 182.4 | --- | 5.457 | -0.23 | 0.167 | 75.5 | 290.1 | -3.0 | 0.263 |
| 4-3500 | 4-4480 | 0.952 | 82.4 | 24.4 | 1.24 | 1.301 | 43.7 | 0.857 | 2.946 | 103.8 | 182.9 | --- | 5.471 | -0.23 | 0.170 | 73.4 | 290.2 | -3.0 | 0.263 |
| 4-3500 | 4-4500 | 0.943 | 82.9 | 24.5 | 1.25 | 1.302 | 44.2 | 0.854 | 2.958 | 102.7 | 183.3 | --- | 5.486 | -0.23 | 0.173 | 71.4 | 290.3 | -3.0 | 0.263 |
| 4-3500 | 4-4520 | 0.934 | 83.4 | 24.5 | 1.25 | 1.303 | 44.8 | 0.852 | 2.971 | 101.7 | 183.7 | --- | 5.502 | -0.23 | 0.177 | 69.6 | 290.5 | -3.0 | 0.262 |
| 4-3500 | 4-4540 | 0.925 | 84.0 | 24.6 | 1.26 | 1.303 | 45.3 | 0.850 | 2.984 | 100.6 | 184.2 | --- | 5.520 | -0.23 | 0.181 | 67.9 | 290.7 | -3.0 | 0.262 |
| 4-3500 | 4-4560 | 0.916 | 84.5 | 24.6 | 1.27 | 1.304 | 45.8 | 0.847 | 2.998 | 99.5 | 184.6 | --- | 5.538 | -0.23 | 0.185 | 66.4 | 291.0 | -3.0 | 0.262 |
| 4-3500 | 4-4580 | 0.907 | 85.1 | 24.7 | 1.27 | 1.304 | 46.4 | 0.845 | 3.012 | 98.4 | 185.0 | --- | 5.557 | -0.23 | 0.188 | 65.0 | 291.3 | -3.0 | 0.262 |
| 4-3500 | 4-4600 | 0.898 | 85.7 | 24.7 | 1.28 | 1.305 | 46.9 | 0.842 | 3.027 | 97.3 | 185.4 | --- | 5.576 | -0.23 | 0.192 | 63.6 | 291.7 | -3.0 | 0.263 |
| 4-3500 | 4-4620 | 0.889 | 86.2 | 24.8 | 1.28 | 1.306 | 47.4 | 0.840 | 3.041 | 96.2 | 185.9 | --- | 5.596 | -0.22 | 0.196 | 62.4 | 292.1 | -3.0 | 0.263 |
| 4-3500 | 4-4640 | 0.880 | 86.8 | 24.8 | 1.29 | 1.306 | 48.0 | 0.838 | 3.056 | 95.1 | 186.3 | --- | 5.617 | -0.22 | 0.200 | 61.3 | 292.5 | -3.0 | 0.263 |
| 4-3500 | 4-4660 | 0.871 | 87.4 | 24.9 | 1.30 | 1.307 | 48.5 | 0.836 | 3.072 | 94.0 | 186.7 | --- | 5.638 | -0.23 | 0.204 | 60.2 | 293.0 | -3.0 | 0.263 |
| 4-3500 | 4-4680 | 0.862 | 88.0 | 24.9 | 1.30 | 1.307 | 49.0 | 0.833 | 3.087 | 92.9 | 187.1 | --- | 5.660 | -0.23 | 0.207 | 59.2 | 293.5 | -3.0 | 0.264 |
| 4-3500 | 4-4700 | 0.853 | 88.6 | 25.0 | 1.31 | 1.308 | 49.5 | 0.831 | 3.103 | 91.8 | 187.5 | --- | 5.682 | -0.23 | 0.211 | 58.3 | 294.0 | -3.0 | 0.264 |
| 4-3500 | 4-4720 | 0.844 | 89.2 | 25.0 | 1.31 | 1.309 | 50.1 | 0.829 | 3.118 | 90.7 | 187.9 | --- | 5.704 | -0.23 | 0.215 | 57.5 | 294.6 | -2.9 | 0.264 |
| 4-3500 | 4-4740 | 0.835 | 89.8 | 25.0 | 1.32 | 1.309 | 50.6 | 0.827 | 3.134 | 89.5 | 188.3 | --- | 5.727 | -0.23 | 0.218 | 56.7 | 295.2 | -2.9 | 0.265 |
| 4-3500 | 4-4760 | 0.826 | 90.4 | 25.1 | 1.33 | 1.310 | 51.1 | 0.825 | 3.151 | 88.4 | 188.7 | --- | 5.750 | -0.23 | 0.222 | 55.9 | 295.8 | -2.9 | 0.265 |
| 4-3500 | 4-4780 | 0.817 | 91.0 | 25.1 | 1.33 | 1.311 | 51.6 | 0.823 | 3.167 | 87.3 | 189.1 | --- | 5.773 | -0.23 | 0.226 | 55.2 | 296.5 | -2.9 | 0.266 |
| 4-3500 | 4-4800 | 0.809 | 91.6 | 25.2 | 1.34 | 1.311 | 52.2 | 0.821 | 3.183 | 86.2 | 189.5 | --- | 5.797 | -0.23 | 0.229 | 54.6 | 297.1 | -2.9 | 0.266 |
| 4-3500 | 4-4820 | 0.800 | 92.2 | 25.2 | 1.35 | 1.312 | 52.7 | 0.819 | 3.200 | 85.1 | 189.9 | --- | 5.820 | -0.23 | 0.233 | 54.0 | 297.9 | -2.9 | 0.267 |
| 4-3500 | 4-4840 | 0.791 | 92.9 | 25.2 | 1.35 | 1.312 | 53.2 | 0.817 | 3.216 | 84.0 | 190.3 | --- | 5.844 | -0.23 | 0.236 | 53.4 | 298.6 | -2.9 | 0.268 |
| 4-3500 | 4-4860 | 0.782 | 93.5 | 25.2 | 1.36 | 1.313 | 53.7 | 0.815 | 3.233 | 82.8 | 190.6 | --- | 5.868 | -0.24 | 0.239 | 52.8 | 299.4 | -2.8 | 0.268 |
| 4-3500 | 4-4880 | 0.773 | 94.2 | 25.3 | 1.36 | 1.314 | 54.2 | 0.813 | 3.249 | 81.7 | 191.0 | --- | 5.892 | -0.24 | 0.243 | 52.3 | 300.1 | -2.8 | 0.269 |
| 4-3500 | 4-4900 | 0.765 | 94.8 | 25.3 | 1.37 | 1.314 | 54.8 | 0.812 | 3.266 | 80.6 | 191.4 | --- | 5.917 | -0.24 | 0.246 | 51.9 | 300.9 | -2.8 | 0.269 |
| 4-3500 | 4-4920 | 0.756 | 95.5 | 25.3 | 1.38 | 1.315 | 55.3 | 0.810 | 3.283 | 79.4 | 191.8 | --- | 5.941 | -0.24 | 0.249 | 51.4 | 301.8 | -2.8 | 0.270 |
| 4-3500 | 4-4940 | 0.747 | 96.2 | 25.3 | 1.39 | 1.315 | 55.8 | 0.808 | 3.299 | 78.3 | 192.2 | --- | 5.966 | -0.25 | 0.253 | 51.0 | 302.6 | -2.8 | 0.271 |
| 4-3500 | 4-4960 | 0.738 | 96.9 | 25.4 | 1.39 | 1.316 | 56.3 | 0.806 | 3.316 | 77.2 | 192.5 | --- | 5.990 | -0.25 | 0.256 | 50.6 | 303.5 | -2.7 | 0.271 |
| 4-3500 | 4-4980 | 0.729 | 97.6 | 25.4 | 1.40 | 1.317 | 56.8 | 0.805 | 3.333 | 76.0 | 192.9 | --- | 6.015 | -0.25 | 0.259 | 50.2 | 304.4 | -2.7 | 0.272 |
| 4-3500 | 4-5000 | 0.721 | 98.3 | 25.4 | 1.41 | 1.317 | 57.3 | 0.803 | 3.350 | 74.9 | 193.3 | --- | 6.040 | -0.26 | 0.262 | 49.8 | 305.3 | -2.7 | 0.273 |
| 4-3500 | 4-5020 | 0.712 | 99.0 | 25.4 | 1.42 | 1.318 | 57.9 | 0.801 | 3.367 | 73.7 | 193.7 | --- | 6.065 | -0.26 | 0.265 | 49.5 | 306.2 | -2.7 | 0.273 |
| 4-3500 | 4-5040 | 0.703 | 99.7 | 25.4 | 1.42 | 1.318 | 58.4 | 0.800 | 3.383 | 72.6 | 194.0 | --- | 6.089 | -0.26 | 0.268 | 49.1 | 307.1 | -2.6 | 0.274 |
| 4-3500 | 4-5060 | 0.695 | 100.5 | 25.4 | 1.43 | 1.319 | 58.9 | 0.798 | 3.400 | 71.4 | 194.4 | --- | 6.114 | -0.27 | 0.271 | 48.8 | 308.1 | -2.6 | 0.275 |
| 4-3500 | 4-5080 | 0.686 | 101.2 | 25.4 | 1.44 | 1.319 | 59.4 | 0.797 | 3.417 | 70.3 | 194.8 | --- | 6.139 | -0.27 | 0.274 | 48.5 | 309.1 | -2.6 | 0.276 |
| 4-3500 | 4-5100 | 0.677 | 102.0 | 25.4 | 1.45 | 1.320 | 59.9 | 0.795 | 3.434 | 69.1 | 195.1 | --- | 6.164 | -0.28 | 0.277 | 48.2 | 310.1 | -2.6 | 0.276 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3700 | 4-4120 | 0.885 | 99.9 | 21.2 | -1.55 | 1.415 | 128.3 | 1.02129 | .573 | 284.3 | 498.2 | 0.630 | --- | 0.30 | 0.639 | 160.7 | 344.9 | -0.7 | 0.624 |
| 4-3700 | 4-4140 | 0.855 | 99.6 | 21.2 | -1.53 | 1.397 | 127.3 | 0.98960 | .395 | 284.9 | 500.4 | 0.641 | --- | 0.29 | 0.597 | 159.3 | 345.0 | -0.7 | 0.583 |
| 4-3700 | 4-4160 | 0.829 | 99.3 | 21.1 | -1.52 | 1.381 | 126.4 | 0.96116 | .816 | 285.4 | 502.4 | 0.651 | --- | 0.28 | 0.560 | 157.9 | 345.1 | -0.7 | 0.547 |
| 4-3700 | 4-4180 | 0.807 | 99.0 | 21.1 | -1.51 | 1.368 | 125.7 | 0.93710 | .400 | 285.9 | 504.5 | 0.659 | --- | 0.27 | 0.526 | 156.4 | 345.0 | -0.7 | 0.513 |
| 4-3700 | 4-4200 | 0.787 | 98.7 | 21.1 | -1.49 | 1.356 | 125.0 | 0.915 | 7.834 | 286.3 | 506.4 | 0.667 | --- | 0.26 | 0.495 | 154.8 | 344.9 | -0.7 | 0.482 |
| 4-3700 | 4-4220 | 0.769 | 98.5 | 21.1 | -1.48 | 1.346 | 124.3 | 0.896 | 6.460 | 286.6 | 508.3 | 0.674 | --- | 0.25 | 0.466 | 153.2 | 344.8 | -0.7 | 0.454 |
| 4-3700 | 4-4240 | 0.754 | 98.3 | 21.1 | -1.47 | 1.338 | 123.8 | 0.879 | 5.609 | 286.9 | 510.2 | 0.680 | --- | 0.25 | 0.440 | 151.5 | 344.5 | -0.7 | 0.429 |
| 4-3700 | 4-4260 | 0.741 | 98.1 | 21.0 | -1.46 | 1.330 | 123.3 | 0.864 | 5.035 | 287.2 | 512.0 | 0.685 | --- | 0.24 | 0.416 | 149.7 | 344.2 | -0.7 | 0.405 |
| 4-3700 | 4-4280 | 0.729 | 98.0 | 21.0 | -1.46 | 1.323 | 122.9 | 0.851 | 4.623 | 287.4 | 513.8 | 0.689 | --- | 0.23 | 0.393 | 147.8 | 343.7 | -0.7 | 0.384 |
| 4-3700 | 4-4300 | 0.719 | 97.9 | 21.0 | -1.45 | 1.317 | 122.6 | 0.840 | 4.316 | 287.6 | 515.5 | 0.693 | --- | 0.23 | 0.373 | 145.9 | 343.2 | -0.8 | 0.364 |
| 4-3700 | 4-4320 | 0.711 | 97.8 | 21.0 | -1.44 | 1.312 | 122.3 | 0.829 | 4.080 | 287.7 | 517.1 | 0.696 | --- | 0.22 | 0.354 | 143.8 | 342.6 | -0.8 | 0.346 |
| 4-3700 | 4-4340 | 0.704 | 97.7 | 21.0 | -1.43 | 1.308 | 122.0 | 0.821 | 3.894 | 287.7 | 518.7 | 0.698 | --- | 0.22 | 0.337 | 141.7 | 341.9 | -0.8 | 0.330 |
| 4-3700 | 4-4360 | 0.698 | 97.7 | 21.0 | -1.42 | 1.304 | 121.8 | 0.813 | 3.745 | 287.7 | 520.3 | 0.700 | --- | 0.21 | 0.321 | 139.5 | 341.1 | -0.9 | 0.315 |
| 4-3700 | 4-4380 | 0.693 | 97.8 | 21.0 | -1.42 | 1.301 | 121.7 | 0.807 | 3.624 | 287.7 | 521.8 | 0.701 | --- | 0.21 | 0.306 | 137.2 | 340.2 | -0.9 | 0.301 |
| 4-3700 | 4-4400 | 0.689 | 97.8 | 21.0 | -1.41 | 1.298 | 121.6 | 0.801 | 3.524 | 287.6 | 523.2 | 0.701 | --- | 0.20 | 0.292 | 134.8 | 339.2 | -0.9 | 0.289 |
| 4-3700 | 4-4420 | 0.687 | 97.9 | 21.0 | -1.40 | 1.295 | 121.5 | 0.796 | 3.442 | 287.5 | 524.6 | 0.701 | --- | 0.20 | 0.280 | 132.3 | 338.1 | -1.0 | 0.278 |
| 4-3700 | 4-4440 | 0.685 | 98.0 | 21.0 | -1.40 | 1.293 | 121.5 | 0.792 | 3.373 | 287.3 | 525.9 | 0.701 | --- | 0.20 | 0.269 | 129.8 | 337.0 | -1.0 | 0.268 |
| 4-3700 | 4-4460 | 0.683 | 98.2 | 21.0 | -1.39 | 1.291 | 121.5 | 0.789 | 3.315 | 287.0 | 527.2 | 0.700 | --- | 0.19 | 0.259 | 127.1 | 335.8 | -1.1 | 0.259 |
| 4-3700 | 4-4480 | 0.683 | 98.4 | 21.0 | -1.39 | 1.289 | 121.5 | 0.786 | 3.266 | 286.7 | 528.4 | 0.698 | --- | 0.19 | 0.249 | 124.4 | 334.5 | -1.2 | 0.251 |
| 4-3700 | 4-4500 | 0.683 | 98.6 | 21.0 | -1.38 | 1.287 | 121.6 | 0.784 | 3.225 | 286.4 | 529.6 | 0.696 | --- | 0.19 | 0.241 | 121.7 | 333.2 | -1.2 | 0.245 |
| 4-3700 | 4-4520 | 0.684 | 98.8 | 21.0 | -1.37 | 1.286 | 121.7 | 0.783 | 3.191 | 286.0 | 530.8 | 0.694 | --- | 0.19 | 0.234 | 118.8 | 331.9 | -1.3 | 0.239 |
| 4-3700 | 4-4540 | 0.686 | 99.1 | 21.0 | -1.37 | 1.285 | 121.9 | 0.781 | 3.162 | 285.6 | 531.9 | 0.691 | --- | 0.18 | 0.227 | 116.0 | 330.6 | -1.3 | 0.234 |
| 4-3700 | 4-4560 | 0.688 | 99.3 | 21.0 | -1.36 | 1.284 | 122.0 | 0.781 | 3.137 | 285.2 | 533.0 | 0.688 | --- | 0.18 | 0.221 | 113.0 | 329.2 | -1.4 | 0.230 |
| 4-3700 | 4-4580 | 0.691 | 99.7 | 21.0 | -1.36 | 1.283 | 122.2 | 0.781 | 3.117 | 284.7 | 534.0 | 0.684 | --- | 0.18 | 0.216 | 110.1 | 327.9 | -1.5 | 0.226 |
| 4-3700 | 4-4600 | 0.694 | 100.0 | 21.0 | -1.35 | 1.282 | 122.4 | 0.781 | 3.100 | 284.1 | 535.0 | 0.680 | --- | 0.18 | 0.211 | 107.1 | 326.6 | -1.5 | 0.224 |
| 4-3700 | 4-4620 | 0.698 | 100.3 | 21.0 | -1.35 | 1.282 | 122.7 | 0.781 | 3.086 | 283.6 | 535.9 | 0.675 | --- | 0.18 | 0.208 | 104.1 | 325.3 | -1.6 | 0.222 |
| 4-3700 | 4-4640 | 0.702 | 100.7 | 21.0 | -1.34 | 1.281 | 123.0 | 0.782 | 3.075 | 283.0 | 536.8 | 0.671 | --- | 0.18 | 0.205 | 101.2 | 324.1 | -1.6 | 0.220 |
| 4-3700 | 4-4660 | 0.707 | 101.1 | 21.0 | -1.34 | 1.281 | 123.2 | 0.783 | 3.066 | 282.3 | 537.7 | 0.666 | --- | 0.17 | 0.202 | 98.2 | 323.0 | -1.7 | 0.220 |
| 4-3700 | 4-4680 | 0.712 | 101.5 | 21.0 | -1.33 | 1.281 | 123.5 | 0.784 | 3.059 | 281.7 | 538.5 | 0.660 | --- | 0.17 | 0.200 | 95.3 | 321.9 | -1.7 | 0.219 |
| 4-3700 | 4-4700 | 0.717 | 101.9 | 21.0 | -1.33 | 1.281 | 123.9 | 0.786 | 3.054 | 280.9 | 539.3 | 0.654 | --- | 0.17 | 0.198 | 92.4 | 320.9 | -1.8 | 0.220 |
| 4-3700 | 4-4720 | 0.723 | 102.4 | 21.0 | -1.32 | 1.280 | 124.2 | 0.788 | 3.051 | 280.2 | 540.1 | 0.648 | 5.453 | 0.17 | 0.197 | 89.6 | 320.1 | -1.8 | 0.220 |
| 4-3700 | 4-4740 | 0.729 | 102.8 | 21.0 | -1.32 | 1.280 | 124.6 | 0.790 | 3.049 | 279.4 | 540.8 | 0.642 | 5.456 | 0.17 | 0.197 | 86.8 | 319.3 | -1.9 | 0.222 |
| 4-3700 | 4-4760 | 0.736 | 103.3 | 21.0 | -1.32 | 1.280 | 125.0 | 0.792 | 3.048 | 278.6 | 541.5 | 0.635 | 5.462 | 0.17 | 0.197 | 84.2 | 318.6 | -1.9 | 0.223 |
| 4-3700 | 4-4780 | 0.743 | 103.8 | 21.0 | -1.31 | 1.280 | 125.4 | 0.794 | 3.049 | 277.8 | 542.2 | 0.628 | 5.470 | 0.17 | 0.197 | 81.5 | 318.0 | -1.9 | 0.225 |
| 4-3700 | 4-4800 | 0.750 | 104.3 | 21.0 | -1.31 | 1.280 | 125.8 | 0.797 | 3.051 | 276.9 | 542.9 | 0.620 | 5.482 | 0.17 | 0.197 | 79.0 | 317.5 | -1.9 | 0.227 |
| 4-3700 | 4-4820 | 0.758 | 104.8 | 21.0 | -1.30 | 1.281 | 126.3 | 0.799 | 3.054 | 276.0 | 543.5 | 0.612 | 5.495 | 0.17 | 0.198 | 76.5 | 317.1 | -1.9 | 0.230 |
| 4-3700 | 4-4840 | 0.766 | 105.3 | 20.9 | -1.30 | 1.281 | 126.7 | 0.802 | 3.057 | 275.1 | 544.1 | 0.604 | 5.510 | 0.17 | 0.199 | 74.1 | 316.8 | -2.0 | 0.233 |
| 4-3700 | 4-4860 | 0.774 | 105.8 | 20.9 | -1.29 | 1.281 | 127.2 | 0.805 | 3.062 | 274.2 | 544.6 | 0.596 | 5.528 | 0.17 | 0.200 | 71.8 | 316.6 | -2.0 | 0.236 |
| 4-3700 | 4-4880 | 0.783 | 106.4 | 20.9 | -1.29 | 1.281 | 127.7 | 0.808 | 3.067 | 273.2 | 545.2 | 0.587 | 5.547 | 0.17 | 0.202 | 69.5 | 316.4 | -2.0 | 0.239 |
| 4-3700 | 4-4900 | 0.792 | 106.9 | 20.9 | -1.28 | 1.281 | 128.2 | 0.812 | 3.073 | 272.2 | 545.7 | 0.578 | 5.567 | 0.17 | 0.203 | 67.4 | 316.4 | -2.0 | 0.242 |
| 4-3700 | 4-4920 | 0.801 | 107.5 | 20.9 | -1.28 | 1.282 | 128.7 | 0.815 | 3.079 | 271.1 | 546.1 | 0.569 | 5.590 | 0.17 | 0.205 | 65.3 | 316.5 | -2.0 | 0.246 |
| 4-3700 | 4-4940 | 0.810 | 108.1 | 20.8 | -1.28 | 1.282 | 129.3 | 0.819 | 3.087 | 270.1 | 546.6 | 0.560 | 5.613 | 0.17 | 0.207 | 63.3 | 316.6 | -2.0 | 0.250 |
| 4-3700 | 4-4960 | 0.820 | 108.7 | 20.8 | -1.27 | 1.282 | 129.8 | 0.822 | 3.094 | 269.0 | 547.0 | 0.550 | 5.639 | 0.17 | 0.209 | 61.3 | 316.8 | -2.0 | 0.253 |
| 4-3700 | 4-4980 | 0.830 | 109.3 | 20.8 | -1.27 | 1.283 | 130.4 | 0.826 | 3.102 | 267.9 | 547.4 | 0.540 | 5.665 | 0.17 | 0.212 | 59.4 | 317.1 | -2.0 | 0.257 |
| 4-3700 | 4-5000 | 0.841 | 109.9 | 20.7 | -1.26 | 1.283 | 131.0 | 0.830 | 3.111 | 266.8 | 547.8 | 0.530 | 5.692 | 0.17 | 0.214 | 57.6 | 317.5 | -2.0 | 0.262 |
| 4-3700 | 4-5020 | 0.851 | 110.5 | 20.7 | -1.26 | 1.283 | 131.6 | 0.834 | 3.120 | 265.6 | 548.2 | 0.519 | 5.721 | 0.17 | 0.217 | 55.9 | 317.9 | -1.9 | 0.266 |
| 4-3700 | 4-5040 | 0.862 | 111.1 | 20.6 | -1.25 | 1.284 | 132.2 | 0.838 | 3.129 | 264.4 | 548.5 | 0.508 | 5.750 | 0.17 | 0.219 | 54.2 | 318.4 | -1.9 | 0.270 |
| 4-3700 | 4-5060 | 0.873 | 111.7 | 20.6 | -1.25 | 1.284 | 132.9 | 0.842 | 3.139 | 263.2 | 548.8 | 0.497 | 5.781 | 0.18 | 0.222 | 52.5 | 319.0 | -1.9 | 0.275 |
| 4-3700 | 4-5080 | 0.885 | 112.4 | 20.5 | -1.24 | 1.284 | 133.5 | 0.846 | 3.149 | 262.0 | 549.1 | 0.486 | 5.812 | 0.18 | 0.224 | 50.9 | 319.6 | -1.9 | 0.279 |
| 4-3700 | 4-5100 | 0.896 | 113.0 | 20.5 | -1.24 | 1.285 | 134.2 | 0.850 | 3.159 | 260.7 | 549.4 | 0.474 | 5.845 | 0.18 | 0.227 | 49.4 | 320.3 | -1.9 | 0.284 |
| 4-3700 | 4-5120 | 0.908 | 113.6 | 20.4 | -1.23 | 1.285 | 134.9 | 0.854 | 3.170 | 259.4 | 549.6 | 0.463 | 5.878 | 0.18 | 0.230 | 47.9 | 321.0 | -1.8 | 0.288 |
| 4-3700 | 4-5140 | 0.921 | 114.3 | 20.4 | -1.23 | 1.286 | 135.6 | 0.858 | 3.181 | 258.1 | 549.8 | 0.451 | 5.912 | 0.18 | 0.233 | 46.4 | 321.8 | -1.8 | 0.293 |
| 4-3700 | 4-5160 | 0.933 | 115.0 | 20.3 | -1.22 | 1.286 | 136.3 | 0.863 | 3.192 | 256.8 | 550.0 | 0.438 | 5.946 | 0.18 | 0.235 | 45.0 | 322.6 | -1.8 | 0.298 |
| 4-3700 | 4-5180 | 0.946 | 115.6 | 20.2 | -1.22 | 1.287 | 137.0 | 0.867 | 3.204 | 255.5 | 550.2 | 0.426 | 5.981 | 0.19 | 0.238 | 43.7 | 323.5 | -1.7 | 0.303 |
| 4-3700 | 4-5200 | 0.959 | 116.3 | 20.1 | -1.21 | 1.287 | 137.8 | 0.871 | 3.215 | 254.1 | 550.4 | 0.413 | 6.017 | 0.19 | 0.241 | 42.3 | 324.4 | -1.7 | 0.308 |
| 4-3700 | 4-5220 | 0.972 | 117.0 | 20.1 | -1.21 | 1.287 | 138.5 | 0.876 | 3.227 | 252.7 | 550.5 | 0.401 | 6.054 | 0.19 | 0.244 | 41.0 | 325.4 | -1.6 | 0.313 |
| 4-3700 | 4-5240 | 0.985 | 117.7 | 20.0 | -1.20 | 1.288 | 139.3 | 0.880 | 3.239 | 251.3 | 550.6 | 0.388 | 6.091 | 0.19 | 0.247 | 39.7 | 326.4 | -1.6 | 0.318 |
| 4-3700 | 4-5260 | 0.999 | 118.3 | 19.9 | -1.19 | 1.288 | 140.1 | 0.885 | 3.252 | 249.8 | 550.7 | 0.375 | 6.129 | 0.20 | 0.250 | 38.5 | 327.4 | -1.6 | 0.323 |
| 4-3700 | 4-5280 | 1.013 | 119.0 | 19.8 | -1.19 | 1.289 | 140.9 | 0.889 | 3.264 | 248.4 | 550.8 | 0.362 | 6.167 | 0.20 | 0.253 | 37.3 | 328.5 | -1.5 | 0.328 |
| 4-3700 | 4-5300 | 1.027 | 119.7 | 19.7 | -1.18 | 1.289 | 141.7 | 0.894 | 3.277 | 246.9 | 550.8 | 0.348 | 6.205 | 0.20 | 0.256 | 36.1 | 329.6 | -1.5 | 0.334 |
| 4-3710 | 4-4130 | 0.831 | 105.8 | 19.8 | -2.06 | 1.418 | 125.1 | 1.02923 | .617 | 290.9 | 496.0 | 0.684 | --- | 0.90 | 0.645 | 160.0 | 346.6 | -0.4 | 0.624 |
| 4-3710 | 4-4150 | 0.802 | 105.4 | 19.8 | -2.00 | 1.400 | 124.1 | 0.99419 | .489 | 291.5 | 498.2 | 0.695 | --- | 0.85 | 0.604 | 158.7 | 346.7 | -0.4 | 0.584 |
| 4-3710 | 4-4170 | 0.776 | 105.0 | 19.8 | -1.96 | 1.384 | 123.3 | 0.96419 | .379 | 292.1 | 500.4 | 0.705 | --- | 0.80 | 0.567 | 157.2 | 346.8 | -0.4 | 0.547 |
| 4-3710 | 4-4190 | 0.753 | 104.6 | 19.8 | -1.91 | 1.371 | 122.5 | 0.93711 | .288 | 292.6 | 502.4 | 0.713 | --- | 0.76 | 0.533 | 155.7 | 346.9 | -0.4 | 0.513 |
| 4-3710 | 4-4210 | 0.732 | 104.3 | 19.8 | -1.87 | 1.359 | 121.7 | 0.913 | 8.307 | 293.1 | 504.5 | 0.721 | --- | 0.73 | 0.502 | 154.2 | 346.8 | -0.4 | 0.482 |
| 4-3710 | 4-4230 | 0.715 | 104.0 | 19.8 | -1.84 | 1.349 | 121.1 | 0.892 | 6.767 | 293.5 | 506.5 | 0.728 | --- | 0.70 | 0.473 | 152.5 | 346.7 | -0.4 | 0.454 |
| 4-3710 | 4-4250 | 0.699 | 103.8 | 19.9 | -1.80 | 1.340 | 120.6 | 0.874 | 5.831 | 293.9 | 508.4 | 0.734 | --- | 0.67 | 0.447 | 150.8 | 346.5 | -0.4 | 0.429 |
| 4-3710 | 4-4270 | 0.686 | 103.5 | 19.9 | -1.77 | 1.333 | 120.1 | 0.858 | 5.207 | 294.2 | 510.3 | 0.739 | --- | 0.65 | 0.423 | 149.1 | 346.2 | -0.4 | 0.405 |
| 4-3710 | 4-4290 | 0.674 | 103.3 | 19.9 | -1.74 | 1.326 | 119.6 | 0.844 | 4.763 | 294.5 | 512.1 | 0.744 | --- | 0.62 | 0.401 | 147.2 | 345.8 | -0.4 | 0.383 |
| 4-3710 | 4-4310 | 0.664 | 103.2 | 19.9 | -1.72 | 1.320 | 119.3 | 0.831 | 4.434 | 294.7 | 513.9 | 0.748 | --- | 0.60 | 0.381 | 145.3 | 345.4 | -0.4 | 0.364 |
| 4-3710 | 4-4330 | 0.655 | 103.1 | 19.9 | -1.69 | 1.315 | 119.0 | 0.820 | 4.182 | 294.9 | 515.6 | 0.751 | --- | 0.58 | 0.362 | 143.3 | 344.8 | -0.4 | 0.345 |
| 4-3710 | 4-4350 | 0.647 | 103.0 | 19.9 | -1.67 | 1.310 | 118.7 | 0.811 | 3.984 | 295.0 | 517.2 | 0.753 | --- | 0.57 | 0.345 | 141.2 | 344.2 | -0.5 | 0.329 |
| 4-3710 | 4-4370 | 0.641 | 103.0 | 19.9 | -1.65 | 1.306 | 118.5 | 0.803 | 3.826 | 295.1 | 518.8 | 0.755 | --- | 0.55 | 0.329 | 139.0 | 343.5 | -0.5 | 0.314 |
| 4-3710 | 4-4390 | 0.636 | 103.0 | 20.0 | -1.63 | 1.303 | 118.3 | 0.795 | 3.697 | 295.1 | 520.4 | 0.757 | --- | 0.54 | 0.315 | 136.8 | 342.6 | -0.5 | 0.300 |
| 4-3710 | 4-4410 | 0.632 | 103.0 | 20.0 | -1.61 | 1.300 | 118.2 | 0.789 | 3.592 | 295.0 | 521.9 | 0.758 | --- | 0.52 | 0.301 | 134.5 | 341.7 | -0.6 | 0.287 |
| 4-3710 | 4-4430 | 0.628 | 103.0 | 20.0 | -1.59 | 1.297 | 118.1 | 0.784 | 3.504 | 294.9 | 523.3 | 0.758 | --- | 0.51 | 0.289 | 132.1 | 340.7 | -0.6 | 0.276 |
| 4-3710 | 4-4450 | 0.626 | 103.1 | 20.0 | -1.57 | 1.295 | 118.1 | 0.779 | 3.431 | 294.8 | 524.7 | 0.758 | --- | 0.50 | 0.278 | 129.6 | 339.6 | -0.7 | 0.266 |
| 4-3710 | 4-4470 | 0.624 | 103.3 | 20.0 | -1.55 | 1.293 | 118.0 | 0.775 | 3.370 | 294.6 | 526.0 | 0.757 | --- | 0.49 | 0.268 | 127.1 | 338.5 | -0.7 | 0.256 |
| 4-3710 | 4-4490 | 0.624 | 103.4 | 20.1 | -1.54 | 1.291 | 118.1 | 0.772 | 3.318 | 294.4 | 527.3 | 0.756 | --- | 0.48 | 0.259 | 124.5 | 337.3 | -0.8 | 0.248 |
| 4-3710 | 4-4510 | 0.623 | 103.6 | 20.1 | -1.52 | 1.290 | 118.1 | 0.769 | 3.274 | 294.1 | 528.6 | 0.755 | --- | 0.47 | 0.250 | 121.8 | 336.0 | -0.8 | 0.241 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3710 | 4-4530 | 0.624 | 103.8 | 20.1 | -1.51 | 1.288 | 118.2 | 0.767 | 3.238 | 293.8 | 529.8 | 0.753 | --- | 0.46 | 0.243 | 119.1 | 334.7 | -0.9 | 0.235 |
| 4-3710 | 4-4550 | 0.625 | 104.1 | 20.1 | -1.49 | 1.287 | 118.3 | 0.766 | 3.206 | 293.4 | 530.9 | 0.751 | --- | 0.45 | 0.236 | 116.4 | 333.4 | -1.0 | 0.229 |
| 4-3710 | 4-4570 | 0.626 | 104.4 | 20.1 | -1.48 | 1.286 | 118.4 | 0.765 | 3.180 | 293.0 | 532.0 | 0.748 | --- | 0.44 | 0.230 | 113.6 | 332.1 | -1.0 | 0.225 |
| 4-3710 | 4-4590 | 0.629 | 104.7 | 20.1 | -1.46 | 1.285 | 118.6 | 0.764 | 3.158 | 292.6 | 533.1 | 0.745 | --- | 0.44 | 0.225 | 110.8 | 330.8 | -1.1 | 0.221 |
| 4-3710 | 4-4610 | 0.631 | 105.0 | 20.1 | -1.45 | 1.284 | 118.8 | 0.764 | 3.140 | 292.1 | 534.1 | 0.742 | --- | 0.43 | 0.221 | 108.0 | 329.4 | -1.1 | 0.218 |
| 4-3710 | 4-4630 | 0.634 | 105.3 | 20.1 | -1.44 | 1.284 | 119.0 | 0.764 | 3.124 | 291.6 | 535.1 | 0.738 | --- | 0.43 | 0.217 | 105.2 | 328.2 | -1.2 | 0.215 |
| 4-3710 | 4-4650 | 0.638 | 105.7 | 20.1 | -1.43 | 1.283 | 119.2 | 0.764 | 3.112 | 291.0 | 536.1 | 0.734 | --- | 0.42 | 0.214 | 102.4 | 326.9 | -1.3 | 0.213 |
| 4-3710 | 4-4670 | 0.642 | 106.1 | 20.1 | -1.41 | 1.283 | 119.5 | 0.765 | 3.102 | 290.4 | 537.0 | 0.729 | --- | 0.41 | 0.211 | 99.6 | 325.7 | -1.3 | 0.212 |
| 4-3710 | 4-4690 | 0.646 | 106.5 | 20.1 | -1.40 | 1.283 | 119.8 | 0.766 | 3.094 | 289.8 | 537.9 | 0.725 | --- | 0.41 | 0.209 | 96.8 | 324.6 | -1.4 | 0.212 |
| 4-3710 | 4-4710 | 0.651 | 106.9 | 20.1 | -1.39 | 1.282 | 120.1 | 0.767 | 3.088 | 289.1 | 538.8 | 0.720 | --- | 0.41 | 0.207 | 94.1 | 323.6 | -1.4 | 0.211 |
| 4-3710 | 4-4730 | 0.656 | 107.4 | 20.1 | -1.38 | 1.282 | 120.4 | 0.768 | 3.084 | 288.4 | 539.6 | 0.714 | --- | 0.40 | 0.206 | 91.4 | 322.6 | -1.5 | 0.212 |
| 4-3710 | 4-4750 | 0.662 | 107.9 | 20.1 | -1.37 | 1.282 | 120.7 | 0.770 | 3.082 | 287.7 | 540.4 | 0.709 | 5.454 | 0.40 | 0.205 | 88.8 | 321.7 | -1.5 | 0.212 |
| 4-3710 | 4-4770 | 0.668 | 108.3 | 20.1 | -1.36 | 1.282 | 121.1 | 0.772 | 3.080 | 287.0 | 541.1 | 0.703 | 5.458 | 0.40 | 0.205 | 86.3 | 321.0 | -1.6 | 0.214 |
| 4-3710 | 4-4790 | 0.674 | 108.8 | 20.1 | -1.35 | 1.282 | 121.4 | 0.774 | 3.080 | 286.2 | 541.8 | 0.696 | 5.464 | 0.39 | 0.205 | 83.8 | 320.3 | -1.6 | 0.215 |
| 4-3710 | 4-4810 | 0.681 | 109.3 | 20.1 | -1.34 | 1.282 | 121.8 | 0.776 | 3.081 | 285.4 | 542.5 | 0.690 | 5.473 | 0.39 | 0.205 | 81.4 | 319.7 | -1.6 | 0.217 |
| 4-3710 | 4-4830 | 0.688 | 109.9 | 20.1 | -1.32 | 1.282 | 122.2 | 0.779 | 3.084 | 284.5 | 543.2 | 0.683 | 5.484 | 0.39 | 0.206 | 79.0 | 319.2 | -1.6 | 0.219 |
| 4-3710 | 4-4850 | 0.695 | 110.4 | 20.1 | -1.31 | 1.282 | 122.7 | 0.781 | 3.087 | 283.6 | 543.8 | 0.676 | 5.498 | 0.39 | 0.207 | 76.7 | 318.8 | -1.7 | 0.221 |
| 4-3710 | 4-4870 | 0.702 | 111.0 | 20.0 | -1.30 | 1.282 | 123.1 | 0.784 | 3.090 | 282.7 | 544.4 | 0.668 | 5.513 | 0.38 | 0.208 | 74.5 | 318.5 | -1.7 | 0.224 |
| 4-3710 | 4-4890 | 0.710 | 111.5 | 20.0 | -1.29 | 1.283 | 123.6 | 0.787 | 3.095 | 281.8 | 545.0 | 0.660 | 5.530 | 0.38 | 0.209 | 72.4 | 318.3 | -1.7 | 0.227 |
| 4-3710 | 4-4910 | 0.718 | 112.1 | 20.0 | -1.28 | 1.283 | 124.0 | 0.790 | 3.100 | 280.9 | 545.6 | 0.652 | 5.549 | 0.38 | 0.210 | 70.3 | 318.2 | -1.7 | 0.230 |
| 4-3710 | 4-4930 | 0.727 | 112.7 | 19.9 | -1.27 | 1.283 | 124.5 | 0.793 | 3.106 | 279.9 | 546.1 | 0.644 | 5.569 | 0.38 | 0.212 | 68.3 | 318.1 | -1.7 | 0.233 |
| 4-3710 | 4-4950 | 0.735 | 113.2 | 19.9 | -1.26 | 1.283 | 125.0 | 0.796 | 3.113 | 278.9 | 546.6 | 0.635 | 5.591 | 0.38 | 0.214 | 66.4 | 318.2 | -1.7 | 0.237 |
| 4-3710 | 4-4970 | 0.744 | 113.8 | 19.9 | -1.25 | 1.284 | 125.5 | 0.799 | 3.120 | 277.8 | 547.1 | 0.626 | 5.614 | 0.38 | 0.216 | 64.5 | 318.3 | -1.7 | 0.240 |
| 4-3710 | 4-4990 | 0.754 | 114.4 | 19.8 | -1.24 | 1.284 | 126.1 | 0.803 | 3.128 | 276.8 | 547.6 | 0.617 | 5.638 | 0.38 | 0.218 | 62.7 | 318.5 | -1.7 | 0.244 |
| 4-3710 | 4-5010 | 0.763 | 115.1 | 19.8 | -1.23 | 1.284 | 126.6 | 0.806 | 3.136 | 275.7 | 548.0 | 0.608 | 5.664 | 0.38 | 0.220 | 60.9 | 318.8 | -1.7 | 0.248 |
| 4-3710 | 4-5030 | 0.773 | 115.7 | 19.7 | -1.22 | 1.285 | 127.2 | 0.810 | 3.144 | 274.6 | 548.4 | 0.598 | 5.691 | 0.38 | 0.222 | 59.3 | 319.2 | -1.7 | 0.252 |
| 4-3710 | 4-5060 | 0.783 | 116.3 | 19.6 | -1.21 | 1.285 | 127.7 | 0.814 | 3.153 | 273.5 | 548.8 | 0.588 | 5.719 | 0.38 | 0.225 | 57.6 | 319.6 | -1.7 | 0.256 |
| 4-3710 | 4-5070 | 0.794 | 116.9 | 19.6 | -1.20 | 1.285 | 128.3 | 0.817 | 3.163 | 272.3 | 549.2 | 0.578 | 5.748 | 0.38 | 0.227 | 56.0 | 320.1 | -1.7 | 0.260 |
| 4-3710 | 4-5090 | 0.804 | 117.6 | 19.5 | -1.19 | 1.286 | 128.9 | 0.821 | 3.172 | 271.1 | 549.5 | 0.567 | 5.777 | 0.38 | 0.230 | 54.5 | 320.6 | -1.7 | 0.264 |
| 4-3710 | 4-5110 | 0.815 | 118.2 | 19.4 | -1.18 | 1.286 | 129.6 | 0.825 | 3.182 | 269.9 | 549.8 | 0.556 | 5.808 | 0.39 | 0.232 | 53.0 | 321.2 | -1.7 | 0.268 |
| 4-3710 | 4-5130 | 0.826 | 118.9 | 19.4 | -1.17 | 1.286 | 130.2 | 0.829 | 3.192 | 268.7 | 550.1 | 0.545 | 5.840 | 0.39 | 0.235 | 51.6 | 321.9 | -1.6 | 0.273 |
| 4-3710 | 4-5150 | 0.838 | 119.5 | 19.3 | -1.16 | 1.287 | 130.8 | 0.833 | 3.203 | 267.5 | 550.4 | 0.534 | 5.872 | 0.39 | 0.237 | 50.2 | 322.6 | -1.6 | 0.277 |
| 4-3710 | 4-5170 | 0.849 | 120.2 | 19.2 | -1.15 | 1.287 | 131.5 | 0.837 | 3.214 | 266.2 | 550.7 | 0.522 | 5.905 | 0.39 | 0.240 | 48.8 | 323.3 | -1.6 | 0.282 |
| 4-3710 | 4-5190 | 0.861 | 120.9 | 19.1 | -1.14 | 1.288 | 132.2 | 0.842 | 3.225 | 264.9 | 550.9 | 0.511 | 5.939 | 0.40 | 0.243 | 47.5 | 324.2 | -1.5 | 0.286 |
| 4-3710 | 4-5210 | 0.873 | 121.5 | 19.0 | -1.13 | 1.288 | 132.9 | 0.846 | 3.236 | 263.6 | 551.1 | 0.499 | 5.973 | 0.40 | 0.245 | 46.2 | 325.0 | -1.5 | 0.291 |
| 4-3710 | 4-5230 | 0.886 | 122.2 | 18.9 | -1.12 | 1.289 | 133.6 | 0.850 | 3.247 | 262.3 | 551.3 | 0.486 | 6.008 | 0.40 | 0.248 | 44.9 | 325.9 | -1.5 | 0.296 |
| 4-3710 | 4-5250 | 0.898 | 122.9 | 18.8 | -1.11 | 1.289 | 134.3 | 0.855 | 3.259 | 260.9 | 551.5 | 0.474 | 6.044 | 0.41 | 0.251 | 43.7 | 326.8 | -1.4 | 0.300 |
| 4-3710 | 4-5270 | 0.911 | 123.6 | 18.7 | -1.09 | 1.289 | 135.0 | 0.859 | 3.271 | 259.5 | 551.6 | 0.461 | 6.081 | 0.41 | 0.254 | 42.5 | 327.8 | -1.4 | 0.305 |
| 4-3710 | 4-5290 | 0.924 | 124.3 | 18.6 | -1.08 | 1.290 | 135.8 | 0.863 | 3.283 | 258.1 | 551.8 | 0.448 | 6.118 | 0.42 | 0.257 | 41.3 | 328.8 | -1.4 | 0.310 |
| 4-3710 | 4-5310 | 0.938 | 125.0 | 18.5 | -1.07 | 1.290 | 136.5 | 0.868 | 3.295 | 256.7 | 551.9 | 0.435 | 6.155 | 0.42 | 0.259 | 40.1 | 329.9 | -1.3 | 0.315 |
| 4-3720 | 4-4140 | 0.777 | 110.9 | 17.1 | -3.15 | 1.421 | 121.8 | 1.036 | 20.544 | 297.6 | 494.0 | 0.738 | --- | 2.06 | 0.650 | 159.4 | 348.1 | 0.1 | 0.624 |
| 4-3720 | 4-4160 | 0.747 | 110.4 | 17.3 | -2.97 | 1.403 | 120.8 | 0.998 | 57.332 | 298.3 | 496.2 | 0.748 | --- | 1.89 | 0.609 | 158.0 | 348.3 | 0.1 | 0.583 |
| 4-3720 | 4-4180 | 0.721 | 110.0 | 17.4 | -2.81 | 1.387 | 119.9 | 0.965 | 21.943 | 298.9 | 498.4 | 0.758 | --- | 1.74 | 0.572 | 156.6 | 348.5 | 0.1 | 0.546 |
| 4-3720 | 4-4200 | 0.698 | 109.6 | 17.6 | -2.68 | 1.374 | 119.1 | 0.937 | 12.091 | 299.5 | 500.6 | 0.766 | --- | 1.62 | 0.538 | 155.1 | 348.5 | 0.1 | 0.512 |
| 4-3720 | 4-4220 | 0.678 | 109.2 | 17.7 | -2.57 | 1.362 | 118.4 | 0.911 | 8.723 | 300.1 | 502.7 | 0.774 | --- | 1.51 | 0.507 | 153.5 | 348.5 | 0.1 | 0.482 |
| 4-3720 | 4-4240 | 0.660 | 108.8 | 17.8 | -2.47 | 1.352 | 117.8 | 0.889 | 7.033 | 300.6 | 504.8 | 0.780 | --- | 1.42 | 0.479 | 151.9 | 348.5 | 0.1 | 0.454 |
| 4-3720 | 4-4260 | 0.644 | 108.5 | 17.9 | -2.38 | 1.343 | 117.2 | 0.869 | 6.023 | 301.0 | 506.8 | 0.786 | --- | 1.34 | 0.453 | 150.2 | 348.3 | 0.1 | 0.428 |
| 4-3720 | 4-4280 | 0.631 | 108.2 | 18.0 | -2.30 | 1.335 | 116.7 | 0.852 | 5.356 | 301.4 | 508.7 | 0.791 | --- | 1.27 | 0.429 | 148.5 | 348.1 | 0.1 | 0.404 |
| 4-3720 | 4-4300 | 0.619 | 108.0 | 18.1 | -2.23 | 1.329 | 116.3 | 0.837 | 4.885 | 301.7 | 510.6 | 0.796 | --- | 1.21 | 0.407 | 146.6 | 347.8 | 0.1 | 0.382 |
| 4-3720 | 4-4320 | 0.608 | 107.8 | 18.2 | -2.16 | 1.323 | 115.9 | 0.824 | 4.537 | 302.0 | 512.4 | 0.800 | --- | 1.15 | 0.387 | 144.7 | 347.3 | 0.0 | 0.362 |
| 4-3720 | 4-4340 | 0.599 | 107.6 | 18.2 | -2.10 | 1.318 | 115.6 | 0.812 | 4.271 | 302.2 | 514.2 | 0.803 | --- | 1.10 | 0.369 | 142.7 | 346.8 | 0.0 | 0.344 |
| 4-3720 | 4-4360 | 0.592 | 107.5 | 18.3 | -2.05 | 1.313 | 115.3 | 0.802 | 4.063 | 302.4 | 515.9 | 0.806 | --- | 1.06 | 0.352 | 140.7 | 346.3 | -0.0 | 0.327 |
| 4-3720 | 4-4380 | 0.585 | 107.4 | 18.4 | -2.00 | 1.309 | 115.1 | 0.793 | 3.897 | 302.5 | 517.5 | 0.808 | --- | 1.02 | 0.336 | 138.6 | 345.6 | -0.0 | 0.312 |
| 4-3720 | 4-4400 | 0.580 | 107.4 | 18.5 | -1.96 | 1.305 | 114.9 | 0.785 | 3.762 | 302.6 | 519.1 | 0.809 | --- | 0.98 | 0.322 | 136.4 | 344.8 | -0.1 | 0.298 |
| 4-3720 | 4-4420 | 0.575 | 107.4 | 18.5 | -1.91 | 1.302 | 114.8 | 0.778 | 3.651 | 302.6 | 520.7 | 0.810 | --- | 0.95 | 0.308 | 134.1 | 344.0 | -0.1 | 0.285 |
| 4-3720 | 4-4440 | 0.572 | 107.4 | 18.6 | -1.87 | 1.300 | 114.7 | 0.772 | 3.560 | 302.6 | 522.1 | 0.811 | --- | 0.91 | 0.296 | 131.8 | 343.0 | -0.2 | 0.274 |
| 4-3720 | 4-4460 | 0.569 | 107.5 | 18.6 | -1.84 | 1.297 | 114.6 | 0.767 | 3.483 | 302.5 | 523.6 | 0.811 | --- | 0.89 | 0.285 | 129.4 | 342.0 | -0.2 | 0.263 |
| 4-3720 | 4-4480 | 0.567 | 107.6 | 18.7 | -1.80 | 1.295 | 114.6 | 0.763 | 3.419 | 302.3 | 525.0 | 0.811 | --- | 0.86 | 0.275 | 126.9 | 340.9 | -0.3 | 0.254 |
| 4-3720 | 4-4500 | 0.566 | 107.8 | 18.7 | -1.77 | 1.293 | 114.6 | 0.759 | 3.365 | 302.2 | 526.3 | 0.810 | --- | 0.84 | 0.266 | 124.4 | 339.8 | -0.3 | 0.245 |
| 4-3720 | 4-4520 | 0.565 | 108.0 | 18.8 | -1.74 | 1.292 | 114.6 | 0.756 | 3.319 | 301.9 | 527.6 | 0.809 | --- | 0.81 | 0.258 | 121.8 | 338.5 | -0.4 | 0.238 |
| 4-3720 | 4-4540 | 0.565 | 108.2 | 18.8 | -1.71 | 1.290 | 114.7 | 0.754 | 3.280 | 301.7 | 528.8 | 0.808 | --- | 0.79 | 0.251 | 119.2 | 337.3 | -0.4 | 0.231 |
| 4-3720 | 4-4560 | 0.566 | 108.4 | 18.9 | -1.68 | 1.289 | 114.8 | 0.752 | 3.247 | 301.3 | 530.0 | 0.806 | --- | 0.78 | 0.244 | 116.6 | 336.0 | -0.5 | 0.225 |
| 4-3720 | 4-4580 | 0.567 | 108.7 | 18.9 | -1.65 | 1.288 | 114.9 | 0.750 | 3.220 | 301.0 | 531.2 | 0.804 | --- | 0.76 | 0.238 | 113.9 | 334.7 | -0.6 | 0.220 |
| 4-3720 | 4-4600 | 0.569 | 109.0 | 18.9 | -1.63 | 1.287 | 115.0 | 0.749 | 3.196 | 300.6 | 532.3 | 0.802 | --- | 0.74 | 0.233 | 111.3 | 333.4 | -0.6 | 0.216 |
| 4-3720 | 4-4620 | 0.571 | 109.3 | 19.0 | -1.60 | 1.287 | 115.2 | 0.749 | 3.177 | 300.1 | 533.4 | 0.799 | --- | 0.73 | 0.229 | 108.6 | 332.0 | -0.7 | 0.212 |
| 4-3720 | 4-4640 | 0.573 | 109.7 | 19.0 | -1.58 | 1.286 | 115.4 | 0.748 | 3.160 | 299.7 | 534.4 | 0.796 | --- | 0.71 | 0.225 | 105.9 | 330.7 | -0.8 | 0.210 |
| 4-3720 | 4-4660 | 0.576 | 110.1 | 19.0 | -1.56 | 1.285 | 115.6 | 0.748 | 3.147 | 299.1 | 535.4 | 0.792 | --- | 0.70 | 0.222 | 103.2 | 329.5 | -0.8 | 0.207 |
| 4-3720 | 4-4680 | 0.580 | 110.5 | 19.0 | -1.54 | 1.285 | 115.8 | 0.749 | 3.136 | 298.6 | 536.4 | 0.789 | --- | 0.69 | 0.219 | 100.6 | 328.3 | -0.9 | 0.206 |
| 4-3720 | 4-4700 | 0.584 | 110.9 | 19.0 | -1.51 | 1.285 | 116.1 | 0.749 | 3.127 | 298.0 | 537.3 | 0.785 | --- | 0.68 | 0.217 | 98.0 | 327.1 | -1.0 | 0.205 |
| 4-3720 | 4-4720 | 0.588 | 111.4 | 19.0 | -1.49 | 1.284 | 116.3 | 0.750 | 3.121 | 297.4 | 538.2 | 0.780 | --- | 0.67 | 0.215 | 95.4 | 326.0 | -1.0 | 0.204 |
| 4-3720 | 4-4740 | 0.592 | 111.8 | 19.0 | -1.47 | 1.284 | 116.6 | 0.751 | 3.116 | 296.7 | 539.1 | 0.776 | --- | 0.66 | 0.214 | 92.9 | 325.0 | -1.1 | 0.204 |
| 4-3720 | 4-4760 | 0.597 | 112.3 | 19.0 | -1.45 | 1.284 | 116.9 | 0.752 | 3.113 | 296.0 | 539.9 | 0.771 | --- | 0.65 | 0.213 | 90.4 | 324.1 | -1.1 | 0.205 |
| 4-3720 | 4-4780 | 0.603 | 112.8 | 19.0 | -1.44 | 1.284 | 117.3 | 0.754 | 3.111 | 295.3 | 540.7 | 0.765 | 5.456 | 0.64 | 0.213 | 87.9 | 323.2 | -1.2 | 0.205 |
| 4-3720 | 4-4800 | 0.608 | 113.3 | 19.0 | -1.42 | 1.284 | 117.6 | 0.756 | 3.110 | 294.6 | 541.4 | 0.760 | 5.460 | 0.63 | 0.212 | 85.6 | 322.5 | -1.2 | 0.207 |
| 4-3720 | 4-4820 | 0.614 | 113.9 | 19.0 | -1.40 | 1.284 | 118.0 | 0.758 | 3.111 | 293.8 | 542.2 | 0.754 | 5.467 | 0.63 | 0.213 | 83.3 | 321.8 | -1.3 | 0.208 |
| 4-3720 | 4-4840 | 0.620 | 114.4 | 19.0 | -1.38 | 1.284 | 118.3 | 0.760 | 3.112 | 293.0 | 542.9 | 0.748 | 5.476 | 0.62 | 0.213 | 81.0 | 321.2 | -1.3 | 0.210 |
| 4-3720 | 4-4860 | 0.627 | 115.0 | 19.0 | -1.36 | 1.284 | 118.7 | 0.762 | 3.115 | 292.2 | 543.6 | 0.742 | 5.488 | 0.61 | 0.214 | 78.8 | 320.8 | -1.3 | 0.212 |
| 4-3720 | 4-4880 | 0.634 | 115.6 | 18.9 | -1.35 | 1.284 | 119.1 | 0.764 | 3.118 | 291.3 | 544.2 | 0.735 | 5.501 | 0.61 | 0.215 | 76.7 | 320.4 | -1.4 | 0.214 |
| 4-3720 | 4-4900 | 0.641 | 116.1 | 18.9 | -1.33 | 1.284 | 119.5 | 0.767 | 3.122 | 290.4 | 544.8 | 0.728 | 5.516 | 0.60 | 0.216 | 74.7 | 320.1 | -1.4 | 0.217 |
| 4-3720 | 4-4920 | 0.648 | 116.7 | 18.9 | -1.31 | 1.285 | 120.0 | 0.769 | 3.127 | 289.5 | 545.4 | 0.721 | 5.533 | 0.60 | 0.217 | 72.7 | 319.9 | -1.4 | 0.219 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3720 | 4-4940 | 0.656 | 117.3 | 18.8 | -1.30 | 1.285 | 120.4 | 0.772 | 3.133 | 288.6 | 546.0 | 0.714 | 5.552 | 0.60 | 0.219 | 70.8 | 319.8 | -1.4 | 0.222 |
| 4-3720 | 4-4960 | 0.664 | 118.0 | 18.8 | -1.28 | 1.285 | 120.9 | 0.775 | 3.139 | 287.6 | 546.6 | 0.706 | 5.572 | 0.59 | 0.220 | 68.9 | 319.8 | -1.4 | 0.225 |
| 4-3720 | 4-4980 | 0.672 | 118.6 | 18.7 | -1.27 | 1.285 | 121.4 | 0.778 | 3.146 | 286.6 | 547.1 | 0.698 | 5.593 | 0.59 | 0.222 | 67.2 | 319.8 | -1.5 | 0.229 |
| 4-3720 | 4-5000 | 0.681 | 119.2 | 18.7 | -1.25 | 1.286 | 121.9 | 0.781 | 3.153 | 285.6 | 547.6 | 0.690 | 5.616 | 0.59 | 0.224 | 65.4 | 320.0 | -1.5 | 0.232 |
| 4-3720 | 4-5020 | 0.690 | 119.8 | 18.6 | -1.23 | 1.286 | 122.4 | 0.784 | 3.161 | 284.6 | 548.1 | 0.681 | 5.640 | 0.59 | 0.226 | 63.7 | 320.2 | -1.5 | 0.236 |
| 4-3720 | 4-5040 | 0.699 | 120.5 | 18.6 | -1.22 | 1.286 | 122.9 | 0.788 | 3.169 | 283.5 | 548.5 | 0.672 | 5.665 | 0.58 | 0.228 | 62.1 | 320.5 | -1.5 | 0.239 |
| 4-3720 | 4-5060 | 0.708 | 121.1 | 18.5 | -1.20 | 1.287 | 123.4 | 0.791 | 3.177 | 282.4 | 549.0 | 0.663 | 5.691 | 0.58 | 0.230 | 60.6 | 320.8 | -1.5 | 0.243 |
| 4-3720 | 4-5080 | 0.717 | 121.8 | 18.4 | -1.19 | 1.287 | 124.0 | 0.795 | 3.186 | 281.3 | 549.4 | 0.654 | 5.718 | 0.58 | 0.232 | 59.0 | 321.2 | -1.5 | 0.247 |
| 4-3720 | 4-5100 | 0.727 | 122.4 | 18.4 | -1.17 | 1.287 | 124.5 | 0.798 | 3.195 | 280.2 | 549.8 | 0.644 | 5.746 | 0.58 | 0.235 | 57.6 | 321.7 | -1.4 | 0.251 |
| 4-3720 | 4-5120 | 0.737 | 123.1 | 18.3 | -1.16 | 1.288 | 125.1 | 0.802 | 3.205 | 279.1 | 550.2 | 0.635 | 5.775 | 0.58 | 0.237 | 56.1 | 322.2 | -1.4 | 0.255 |
| 4-3720 | 4-5140 | 0.748 | 123.8 | 18.2 | -1.14 | 1.288 | 125.7 | 0.806 | 3.215 | 277.9 | 550.5 | 0.624 | 5.805 | 0.58 | 0.240 | 54.7 | 322.8 | -1.4 | 0.259 |
| 4-3720 | 4-5160 | 0.758 | 124.5 | 18.1 | -1.13 | 1.288 | 126.3 | 0.810 | 3.225 | 276.7 | 550.8 | 0.614 | 5.836 | 0.58 | 0.242 | 53.4 | 323.5 | -1.4 | 0.263 |
| 4-3720 | 4-5180 | 0.769 | 125.1 | 18.0 | -1.11 | 1.289 | 126.9 | 0.814 | 3.235 | 275.5 | 551.1 | 0.603 | 5.867 | 0.59 | 0.245 | 52.1 | 324.2 | -1.4 | 0.267 |
| 4-3720 | 4-5200 | 0.780 | 125.8 | 17.9 | -1.09 | 1.289 | 127.6 | 0.818 | 3.246 | 274.2 | 551.4 | 0.592 | 5.900 | 0.59 | 0.247 | 50.8 | 324.9 | -1.3 | 0.271 |
| 4-3720 | 4-5220 | 0.791 | 126.5 | 17.8 | -1.08 | 1.290 | 128.2 | 0.822 | 3.257 | 273.0 | 551.7 | 0.581 | 5.933 | 0.59 | 0.250 | 49.5 | 325.7 | -1.3 | 0.276 |
| 4-3720 | 4-5240 | 0.803 | 127.2 | 17.7 | -1.06 | 1.290 | 128.9 | 0.826 | 3.268 | 271.7 | 552.0 | 0.570 | 5.966 | 0.59 | 0.252 | 48.3 | 326.6 | -1.3 | 0.280 |
| 4-3720 | 4-5260 | 0.815 | 127.9 | 17.6 | -1.05 | 1.290 | 129.5 | 0.830 | 3.279 | 270.4 | 552.2 | 0.558 | 6.001 | 0.60 | 0.255 | 47.1 | 327.5 | -1.3 | 0.285 |
| 4-3720 | 4-5280 | 0.827 | 128.6 | 17.5 | -1.03 | 1.291 | 130.2 | 0.834 | 3.291 | 269.1 | 552.4 | 0.546 | 6.036 | 0.60 | 0.258 | 46.0 | 328.4 | -1.2 | 0.289 |
| 4-3720 | 4-5300 | 0.839 | 129.3 | 17.3 | -1.01 | 1.291 | 130.9 | 0.838 | 3.303 | 267.7 | 552.6 | 0.534 | 6.071 | 0.60 | 0.260 | 44.8 | 329.3 | -1.2 | 0.294 |
| 4-3720 | 4-5320 | 0.852 | 130.0 | 17.2 | -1.00 | 1.292 | 131.6 | 0.843 | 3.314 | 266.4 | 552.8 | 0.521 | 6.107 | 0.61 | 0.263 | 43.7 | 330.3 | -1.1 | 0.299 |
| 4-3730 | 4-4150 | 0.730 | 114.8 | 9.6 | -6.80 | 1.423 | 118.4 | 1.042 | 19.024 | 304.5 | 492.2 | 0.790 | --- | 5.79 | 0.653 | 158.7 | 349.5 | 1.6 | 0.622 |
| 4-3730 | 4-4170 | 0.698 | 114.4 | 11.0 | -5.81 | 1.405 | 117.4 | 1.001 | 77.156 | 305.3 | 494.5 | 0.800 | --- | 4.82 | 0.612 | 157.3 | 349.7 | 1.4 | 0.581 |
| 4-3730 | 4-4190 | 0.670 | 113.9 | 12.0 | -5.11 | 1.390 | 116.5 | 0.966 | 24.056 | 306.0 | 496.8 | 0.808 | --- | 4.13 | 0.575 | 155.9 | 349.9 | 1.2 | 0.544 |
| 4-3730 | 4-4210 | 0.646 | 113.4 | 12.8 | -4.58 | 1.376 | 115.7 | 0.936 | 12.709 | 306.7 | 499.0 | 0.816 | --- | 3.61 | 0.542 | 154.4 | 350.0 | 1.1 | 0.511 |
| 4-3730 | 4-4230 | 0.625 | 113.0 | 13.4 | -4.17 | 1.365 | 115.0 | 0.909 | 9.041 | 307.3 | 501.1 | 0.824 | --- | 3.21 | 0.511 | 152.9 | 350.1 | 1.0 | 0.480 |
| 4-3730 | 4-4250 | 0.607 | 112.6 | 13.9 | -3.85 | 1.355 | 114.4 | 0.885 | 7.238 | 307.8 | 503.3 | 0.830 | --- | 2.90 | 0.483 | 151.3 | 350.0 | 1.0 | 0.452 |
| 4-3730 | 4-4270 | 0.591 | 112.3 | 14.3 | -3.58 | 1.346 | 113.8 | 0.865 | 6.172 | 308.4 | 505.3 | 0.835 | --- | 2.64 | 0.457 | 149.6 | 349.9 | 0.9 | 0.426 |
| 4-3730 | 4-4290 | 0.578 | 111.9 | 14.7 | -3.35 | 1.338 | 113.3 | 0.846 | 5.473 | 308.8 | 507.3 | 0.840 | --- | 2.42 | 0.434 | 147.8 | 349.7 | 0.8 | 0.402 |
| 4-3730 | 4-4310 | 0.565 | 111.6 | 15.0 | -3.16 | 1.331 | 112.9 | 0.830 | 4.981 | 309.2 | 509.2 | 0.845 | --- | 2.24 | 0.412 | 146.0 | 349.4 | 0.8 | 0.381 |
| 4-3730 | 4-4330 | 0.555 | 111.4 | 15.3 | -3.00 | 1.325 | 112.5 | 0.816 | 4.619 | 309.5 | 511.1 | 0.848 | --- | 2.09 | 0.392 | 144.1 | 349.1 | 0.8 | 0.361 |
| 4-3730 | 4-4350 | 0.546 | 111.2 | 15.5 | -2.86 | 1.320 | 112.2 | 0.804 | 4.343 | 309.8 | 512.9 | 0.851 | --- | 1.96 | 0.374 | 142.2 | 348.6 | 0.7 | 0.342 |
| 4-3730 | 4-4370 | 0.538 | 111.0 | 15.8 | -2.73 | 1.316 | 111.9 | 0.793 | 4.128 | 310.0 | 514.7 | 0.854 | --- | 1.84 | 0.357 | 140.1 | 348.1 | 0.7 | 0.326 |
| 4-3730 | 4-4390 | 0.531 | 110.9 | 16.0 | -2.62 | 1.311 | 111.7 | 0.784 | 3.955 | 310.2 | 516.4 | 0.856 | --- | 1.74 | 0.341 | 138.1 | 347.4 | 0.6 | 0.310 |
| 4-3730 | 4-4410 | 0.526 | 110.8 | 16.2 | -2.52 | 1.308 | 111.5 | 0.775 | 3.816 | 310.3 | 518.0 | 0.858 | --- | 1.65 | 0.327 | 135.9 | 346.7 | 0.6 | 0.296 |
| 4-3730 | 4-4430 | 0.521 | 110.8 | 16.3 | -2.43 | 1.305 | 111.3 | 0.768 | 3.702 | 310.4 | 519.6 | 0.859 | --- | 1.57 | 0.314 | 133.7 | 345.9 | 0.5 | 0.283 |
| 4-3730 | 4-4450 | 0.517 | 110.8 | 16.5 | -2.35 | 1.302 | 111.2 | 0.762 | 3.607 | 310.4 | 521.2 | 0.860 | --- | 1.50 | 0.302 | 131.4 | 345.0 | 0.5 | 0.271 |
| 4-3730 | 4-4470 | 0.514 | 110.9 | 16.6 | -2.27 | 1.300 | 111.2 | 0.756 | 3.528 | 310.3 | 522.6 | 0.860 | --- | 1.44 | 0.292 | 129.0 | 344.1 | 0.4 | 0.261 |
| 4-3730 | 4-4490 | 0.512 | 111.0 | 16.8 | -2.20 | 1.298 | 111.1 | 0.752 | 3.461 | 310.2 | 524.1 | 0.860 | --- | 1.38 | 0.282 | 126.7 | 343.0 | 0.3 | 0.251 |
| 4-3730 | 4-4510 | 0.510 | 111.1 | 16.9 | -2.14 | 1.296 | 111.1 | 0.748 | 3.405 | 310.1 | 525.4 | 0.860 | --- | 1.33 | 0.273 | 124.2 | 341.9 | 0.3 | 0.242 |
| 4-3730 | 4-4530 | 0.509 | 111.3 | 17.0 | -2.08 | 1.294 | 111.1 | 0.744 | 3.358 | 309.9 | 526.8 | 0.859 | --- | 1.28 | 0.265 | 121.7 | 340.7 | 0.2 | 0.234 |
| 4-3730 | 4-4550 | 0.509 | 111.5 | 17.1 | -2.03 | 1.293 | 111.2 | 0.741 | 3.318 | 309.7 | 528.1 | 0.858 | --- | 1.24 | 0.257 | 119.2 | 339.5 | 0.1 | 0.228 |
| 4-3730 | 4-4570 | 0.509 | 111.8 | 17.2 | -1.97 | 1.292 | 111.2 | 0.739 | 3.283 | 309.4 | 529.3 | 0.856 | --- | 1.20 | 0.251 | 116.7 | 338.2 | 0.1 | 0.222 |
| 4-3730 | 4-4590 | 0.510 | 112.1 | 17.3 | -1.93 | 1.291 | 111.4 | 0.737 | 3.255 | 309.1 | 530.5 | 0.855 | --- | 1.16 | 0.245 | 114.1 | 336.9 | 0.0 | 0.216 |
| 4-3730 | 4-4610 | 0.511 | 112.4 | 17.4 | -1.88 | 1.290 | 111.5 | 0.736 | 3.230 | 308.7 | 531.6 | 0.853 | --- | 1.13 | 0.240 | 111.5 | 335.6 | -0.1 | 0.212 |
| 4-3730 | 4-4630 | 0.513 | 112.8 | 17.4 | -1.84 | 1.289 | 111.6 | 0.735 | 3.210 | 308.3 | 532.7 | 0.850 | --- | 1.10 | 0.236 | 108.9 | 334.3 | -0.2 | 0.208 |
| 4-3730 | 4-4650 | 0.515 | 113.2 | 17.5 | -1.80 | 1.288 | 111.8 | 0.734 | 3.193 | 307.8 | 533.8 | 0.848 | --- | 1.07 | 0.232 | 106.4 | 333.0 | -0.2 | 0.205 |
| 4-3730 | 4-4670 | 0.517 | 113.6 | 17.6 | -1.76 | 1.288 | 112.0 | 0.734 | 3.178 | 307.4 | 534.8 | 0.845 | --- | 1.04 | 0.229 | 103.8 | 331.7 | -0.3 | 0.202 |
| 4-3730 | 4-4690 | 0.520 | 114.0 | 17.6 | -1.72 | 1.287 | 112.2 | 0.734 | 3.167 | 306.8 | 535.8 | 0.842 | --- | 1.02 | 0.226 | 101.3 | 330.5 | -0.4 | 0.201 |
| 4-3730 | 4-4710 | 0.524 | 114.5 | 17.6 | -1.69 | 1.287 | 112.4 | 0.734 | 3.158 | 306.3 | 536.8 | 0.839 | --- | 1.00 | 0.224 | 98.8 | 329.3 | -0.5 | 0.199 |
| 4-3730 | 4-4730 | 0.527 | 115.0 | 17.7 | -1.66 | 1.287 | 112.7 | 0.735 | 3.150 | 305.7 | 537.7 | 0.835 | --- | 0.98 | 0.222 | 96.3 | 328.2 | -0.5 | 0.198 |
| 4-3730 | 4-4750 | 0.531 | 115.5 | 17.7 | -1.62 | 1.286 | 112.9 | 0.736 | 3.145 | 305.1 | 538.6 | 0.831 | --- | 0.96 | 0.221 | 93.9 | 327.2 | -0.6 | 0.198 |
| 4-3730 | 4-4770 | 0.536 | 116.0 | 17.7 | -1.59 | 1.286 | 113.2 | 0.737 | 3.141 | 304.4 | 539.5 | 0.827 | --- | 0.94 | 0.220 | 91.5 | 326.2 | -0.7 | 0.198 |
| 4-3730 | 4-4790 | 0.540 | 116.5 | 17.7 | -1.56 | 1.286 | 113.5 | 0.738 | 3.139 | 303.8 | 540.3 | 0.823 | 5.455 | 0.92 | 0.219 | 89.2 | 325.3 | -0.7 | 0.199 |
| 4-3730 | 4-4810 | 0.545 | 117.1 | 17.7 | -1.53 | 1.286 | 113.8 | 0.739 | 3.138 | 303.0 | 541.1 | 0.818 | 5.457 | 0.91 | 0.219 | 86.9 | 324.5 | -0.8 | 0.199 |
| 4-3730 | 4-4830 | 0.551 | 117.7 | 17.7 | -1.51 | 1.286 | 114.2 | 0.741 | 3.138 | 302.3 | 541.8 | 0.813 | 5.463 | 0.89 | 0.219 | 84.7 | 323.8 | -0.8 | 0.201 |
| 4-3730 | 4-4850 | 0.556 | 118.3 | 17.7 | -1.48 | 1.286 | 114.5 | 0.743 | 3.139 | 301.5 | 542.6 | 0.808 | 5.470 | 0.88 | 0.219 | 82.6 | 323.1 | -0.9 | 0.202 |
| 4-3730 | 4-4870 | 0.562 | 118.9 | 17.7 | -1.45 | 1.286 | 114.9 | 0.745 | 3.141 | 300.7 | 543.3 | 0.802 | 5.480 | 0.87 | 0.220 | 80.5 | 322.6 | -0.9 | 0.204 |
| 4-3730 | 4-4890 | 0.568 | 119.5 | 17.7 | -1.43 | 1.286 | 115.3 | 0.747 | 3.144 | 299.9 | 544.0 | 0.797 | 5.492 | 0.85 | 0.221 | 78.5 | 322.2 | -1.0 | 0.206 |
| 4-3730 | 4-4910 | 0.575 | 120.1 | 17.7 | -1.40 | 1.287 | 115.6 | 0.749 | 3.148 | 299.1 | 544.7 | 0.791 | 5.506 | 0.84 | 0.222 | 76.5 | 321.8 | -1.0 | 0.208 |
| 4-3730 | 4-4930 | 0.582 | 120.7 | 17.6 | -1.38 | 1.287 | 116.0 | 0.751 | 3.153 | 298.2 | 545.3 | 0.784 | 5.521 | 0.83 | 0.223 | 74.6 | 321.6 | -1.1 | 0.210 |
| 4-3730 | 4-4950 | 0.589 | 121.4 | 17.6 | -1.36 | 1.287 | 116.5 | 0.754 | 3.158 | 297.3 | 545.9 | 0.778 | 5.538 | 0.83 | 0.224 | 72.8 | 321.4 | -1.1 | 0.213 |
| 4-3730 | 4-4970 | 0.596 | 122.0 | 17.6 | -1.33 | 1.287 | 116.9 | 0.756 | 3.164 | 296.4 | 546.5 | 0.771 | 5.556 | 0.82 | 0.226 | 71.0 | 321.3 | -1.1 | 0.216 |
| 4-3730 | 4-4990 | 0.603 | 122.7 | 17.5 | -1.31 | 1.287 | 117.3 | 0.759 | 3.170 | 295.4 | 547.1 | 0.764 | 5.576 | 0.81 | 0.228 | 69.3 | 321.3 | -1.1 | 0.219 |
| 4-3730 | 4-5010 | 0.611 | 123.4 | 17.4 | -1.29 | 1.288 | 117.8 | 0.762 | 3.177 | 294.4 | 547.6 | 0.757 | 5.597 | 0.80 | 0.229 | 67.7 | 321.4 | -1.1 | 0.222 |
| 4-3730 | 4-5030 | 0.619 | 124.1 | 17.4 | -1.27 | 1.288 | 118.3 | 0.765 | 3.184 | 293.4 | 548.1 | 0.749 | 5.620 | 0.80 | 0.231 | 66.0 | 321.5 | -1.2 | 0.225 |
| 4-3730 | 4-5050 | 0.628 | 124.7 | 17.3 | -1.24 | 1.288 | 118.8 | 0.768 | 3.192 | 292.4 | 548.6 | 0.741 | 5.643 | 0.79 | 0.233 | 64.5 | 321.7 | -1.2 | 0.228 |
| 4-3730 | 4-5070 | 0.636 | 125.4 | 17.2 | -1.22 | 1.289 | 119.3 | 0.771 | 3.200 | 291.4 | 549.1 | 0.733 | 5.668 | 0.79 | 0.235 | 63.0 | 322.0 | -1.2 | 0.232 |
| 4-3730 | 4-5090 | 0.645 | 126.1 | 17.2 | -1.20 | 1.289 | 119.8 | 0.774 | 3.209 | 290.3 | 549.6 | 0.725 | 5.693 | 0.78 | 0.237 | 61.5 | 322.4 | -1.2 | 0.235 |
| 4-3730 | 4-5110 | 0.654 | 126.8 | 17.1 | -1.18 | 1.289 | 120.3 | 0.777 | 3.218 | 289.2 | 550.0 | 0.716 | 5.720 | 0.78 | 0.240 | 60.1 | 322.8 | -1.2 | 0.239 |
| 4-3730 | 4-5130 | 0.663 | 127.5 | 17.0 | -1.16 | 1.290 | 120.8 | 0.781 | 3.227 | 288.1 | 550.4 | 0.708 | 5.747 | 0.78 | 0.242 | 58.7 | 323.3 | -1.2 | 0.243 |
| 4-3730 | 4-5150 | 0.673 | 128.2 | 16.9 | -1.14 | 1.290 | 121.4 | 0.784 | 3.237 | 287.0 | 550.8 | 0.698 | 5.775 | 0.77 | 0.244 | 57.4 | 323.8 | -1.2 | 0.247 |
| 4-3730 | 4-5170 | 0.683 | 128.9 | 16.8 | -1.12 | 1.290 | 122.0 | 0.788 | 3.247 | 285.8 | 551.2 | 0.689 | 5.805 | 0.77 | 0.247 | 56.1 | 324.4 | -1.2 | 0.250 |
| 4-3730 | 4-5190 | 0.693 | 129.6 | 16.7 | -1.10 | 1.291 | 122.5 | 0.791 | 3.257 | 284.7 | 551.5 | 0.679 | 5.835 | 0.77 | 0.249 | 54.8 | 325.1 | -1.1 | 0.254 |
| 4-3730 | 4-5210 | 0.703 | 130.4 | 16.6 | -1.08 | 1.291 | 123.1 | 0.795 | 3.267 | 283.5 | 551.9 | 0.669 | 5.865 | 0.77 | 0.251 | 53.6 | 325.8 | -1.1 | 0.258 |
| 4-3730 | 4-5230 | 0.713 | 131.1 | 16.5 | -1.06 | 1.291 | 123.7 | 0.799 | 3.278 | 282.3 | 552.2 | 0.659 | 5.897 | 0.77 | 0.254 | 52.4 | 326.5 | -1.1 | 0.262 |
| 4-3730 | 4-5250 | 0.724 | 131.8 | 16.3 | -1.04 | 1.292 | 124.3 | 0.803 | 3.289 | 281.0 | 552.5 | 0.649 | 5.929 | 0.77 | 0.256 | 51.2 | 327.3 | -1.1 | 0.267 |
| 4-3730 | 4-5270 | 0.735 | 132.5 | 16.2 | -1.01 | 1.292 | 125.0 | 0.807 | 3.300 | 279.8 | 552.8 | 0.638 | 5.962 | 0.77 | 0.259 | 50.1 | 328.1 | -1.1 | 0.271 |
| 4-3730 | 4-5290 | 0.746 | 133.2 | 16.1 | -0.99 | 1.293 | 125.6 | 0.811 | 3.311 | 278.5 | 553.0 | 0.627 | 5.995 | 0.77 | 0.262 | 49.0 | 329.0 | -1.0 | 0.275 |
| 4-3730 | 4-5310 | 0.758 | 134.0 | 15.9 | -0.97 | 1.293 | 126.3 | 0.815 | 3.322 | 277.2 | 553.3 | 0.616 | 6.029 | 0.77 | 0.264 | 47.9 | 329.9 | -1.0 | 0.279 |
| 4-3730 | 4-5330 | 0.769 | 134.7 | 15.8 | -0.95 | 1.293 | 126.9 | 0.819 | 3.334 | 275.9 | 553.5 | 0.604 | 6.064 | 0.78 | 0.267 | 46.8 | 330.9 | -1.0 | 0.284 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3740 | 4-4200 | 0.804 | 119.6 | -27.1 | -27.11 | 1.392 | 113.0 | 0.966 | 25.142 | 313.2 | 495.3 | 0.855 | --- | 26.22 | 0.577 | 155.3 | 348.5 | 10.4 | 0.559 |
| 4-3740 | 4-4220 | 0.663 | 116.1 | -11.4 | -16.03 | 1.378 | 112.2 | 0.934 | 13.041 | 314.0 | 497.6 | 0.863 | --- | 15.15 | 0.543 | 153.8 | 350.3 | 6.5 | 0.514 |
| 4-3740 | 4-4240 | 0.608 | 115.2 | -3.5 | -11.45 | 1.367 | 111.5 | 0.906 | 9.222 | 314.7 | 499.8 | 0.870 | --- | 10.58 | 0.513 | 152.2 | 350.9 | 4.8 | 0.480 |
| 4-3740 | 4-4260 | 0.575 | 114.7 | 1.1 | -8.98 | 1.357 | 110.8 | 0.881 | 7.362 | 315.4 | 502.0 | 0.875 | --- | 8.13 | 0.485 | 150.6 | 351.1 | 3.8 | 0.451 |
| 4-3740 | 4-4280 | 0.552 | 114.3 | 4.1 | -7.44 | 1.348 | 110.3 | 0.859 | 6.266 | 316.0 | 504.1 | 0.880 | --- | 6.60 | 0.460 | 148.9 | 351.1 | 3.2 | 0.424 |
| 4-3740 | 4-4300 | 0.534 | 114.0 | 6.2 | -6.39 | 1.340 | 109.8 | 0.841 | 5.549 | 316.5 | 506.2 | 0.885 | --- | 5.56 | 0.436 | 147.2 | 351.0 | 2.8 | 0.401 |
| 4-3740 | 4-4320 | 0.520 | 113.7 | 7.8 | -5.62 | 1.333 | 109.4 | 0.824 | 5.046 | 316.9 | 508.2 | 0.889 | --- | 4.80 | 0.415 | 145.4 | 350.8 | 2.5 | 0.379 |
| 4-3740 | 4-4340 | 0.508 | 113.5 | 9.0 | -5.04 | 1.328 | 109.0 | 0.809 | 4.676 | 317.3 | 510.1 | 0.892 | --- | 4.23 | 0.395 | 143.5 | 350.4 | 2.3 | 0.359 |
| 4-3740 | 4-4360 | 0.498 | 113.3 | 10.0 | -4.58 | 1.322 | 108.7 | 0.796 | 4.395 | 317.6 | 511.9 | 0.895 | --- | 3.78 | 0.377 | 141.6 | 350.0 | 2.1 | 0.340 |
| 4-3740 | 4-4380 | 0.489 | 113.1 | 10.8 | -4.21 | 1.318 | 108.4 | 0.785 | 4.175 | 317.9 | 513.7 | 0.897 | --- | 3.43 | 0.361 | 139.6 | 349.5 | 1.9 | 0.323 |
| 4-3740 | 4-4400 | 0.482 | 113.0 | 11.5 | -3.90 | 1.314 | 108.2 | 0.775 | 3.999 | 318.1 | 515.5 | 0.899 | --- | 3.13 | 0.345 | 137.5 | 349.0 | 1.8 | 0.308 |
| 4-3740 | 4-4420 | 0.475 | 112.9 | 12.1 | -3.64 | 1.310 | 108.0 | 0.766 | 3.857 | 318.3 | 517.2 | 0.901 | --- | 2.89 | 0.331 | 135.4 | 348.3 | 1.7 | 0.294 |
| 4-3740 | 4-4440 | 0.470 | 112.8 | 12.6 | -3.42 | 1.307 | 107.8 | 0.759 | 3.740 | 318.4 | 518.8 | 0.902 | --- | 2.68 | 0.318 | 133.2 | 347.5 | 1.6 | 0.281 |
| 4-3740 | 4-4460 | 0.466 | 112.8 | 13.0 | -3.23 | 1.305 | 107.7 | 0.752 | 3.644 | 318.4 | 520.4 | 0.903 | --- | 2.50 | 0.307 | 130.9 | 346.7 | 1.5 | 0.269 |
| 4-3740 | 4-4480 | 0.463 | 112.9 | 13.4 | -3.06 | 1.302 | 107.6 | 0.747 | 3.563 | 318.4 | 521.9 | 0.903 | --- | 2.35 | 0.296 | 128.6 | 345.7 | 1.3 | 0.258 |
| 4-3740 | 4-4500 | 0.460 | 113.0 | 13.8 | -2.92 | 1.300 | 107.6 | 0.742 | 3.495 | 318.4 | 523.3 | 0.903 | --- | 2.21 | 0.286 | 126.3 | 344.7 | 1.3 | 0.248 |
| 4-3740 | 4-4520 | 0.458 | 113.2 | 14.1 | -2.79 | 1.298 | 107.6 | 0.737 | 3.438 | 318.2 | 524.8 | 0.903 | --- | 2.09 | 0.278 | 123.9 | 343.7 | 1.2 | 0.240 |
| 4-3740 | 4-4540 | 0.457 | 113.4 | 14.4 | -2.67 | 1.297 | 107.6 | 0.734 | 3.390 | 318.1 | 526.1 | 0.902 | --- | 1.99 | 0.270 | 121.5 | 342.5 | 1.1 | 0.232 |
| 4-3740 | 4-4560 | 0.456 | 113.6 | 14.6 | -2.56 | 1.295 | 107.6 | 0.731 | 3.348 | 317.9 | 527.4 | 0.902 | --- | 1.89 | 0.263 | 119.0 | 341.3 | 1.0 | 0.225 |
| 4-3740 | 4-4580 | 0.456 | 113.9 | 14.9 | -2.46 | 1.294 | 107.7 | 0.728 | 3.314 | 317.6 | 528.7 | 0.901 | --- | 1.81 | 0.256 | 116.6 | 340.1 | 0.9 | 0.218 |
| 4-3740 | 4-4600 | 0.456 | 114.2 | 15.1 | -2.37 | 1.293 | 107.8 | 0.726 | 3.284 | 317.3 | 529.9 | 0.899 | --- | 1.74 | 0.251 | 114.1 | 338.8 | 0.8 | 0.213 |
| 4-3740 | 4-4620 | 0.457 | 114.6 | 15.3 | -2.29 | 1.292 | 107.9 | 0.725 | 3.259 | 317.0 | 531.1 | 0.898 | --- | 1.67 | 0.246 | 111.6 | 337.5 | 0.7 | 0.208 |
| 4-3740 | 4-4640 | 0.458 | 115.0 | 15.4 | -2.22 | 1.291 | 108.0 | 0.723 | 3.238 | 316.6 | 532.2 | 0.896 | --- | 1.60 | 0.241 | 109.1 | 336.2 | 0.6 | 0.204 |
| 4-3740 | 4-4660 | 0.460 | 115.4 | 15.6 | -2.15 | 1.291 | 108.2 | 0.722 | 3.220 | 316.2 | 533.3 | 0.894 | --- | 1.55 | 0.238 | 106.6 | 334.9 | 0.5 | 0.201 |
| 4-3740 | 4-4680 | 0.462 | 115.9 | 15.7 | -2.08 | 1.290 | 108.4 | 0.722 | 3.206 | 315.7 | 534.4 | 0.892 | --- | 1.50 | 0.234 | 104.1 | 333.7 | 0.4 | 0.198 |
| 4-3740 | 4-4700 | 0.465 | 116.4 | 15.8 | -2.02 | 1.290 | 108.6 | 0.722 | 3.194 | 315.2 | 535.4 | 0.889 | --- | 1.45 | 0.232 | 101.7 | 332.4 | 0.3 | 0.196 |
| 4-3740 | 4-4720 | 0.467 | 116.9 | 15.9 | -1.96 | 1.289 | 108.8 | 0.722 | 3.184 | 314.7 | 536.4 | 0.886 | --- | 1.41 | 0.230 | 99.3 | 331.2 | 0.2 | 0.195 |
| 4-3740 | 4-4740 | 0.471 | 117.4 | 16.0 | -1.91 | 1.289 | 109.0 | 0.722 | 3.176 | 314.1 | 537.3 | 0.883 | --- | 1.37 | 0.228 | 96.9 | 330.1 | 0.1 | 0.193 |
| 4-3740 | 4-4760 | 0.474 | 118.0 | 16.1 | -1.86 | 1.289 | 109.3 | 0.722 | 3.171 | 313.6 | 538.2 | 0.880 | --- | 1.33 | 0.226 | 94.6 | 329.0 | -0.0 | 0.193 |
| 4-3740 | 4-4780 | 0.478 | 118.6 | 16.2 | -1.81 | 1.289 | 109.5 | 0.723 | 3.166 | 312.9 | 539.1 | 0.877 | --- | 1.29 | 0.226 | 92.3 | 328.0 | -0.1 | 0.193 |
| 4-3740 | 4-4800 | 0.482 | 119.2 | 16.2 | -1.76 | 1.289 | 109.8 | 0.724 | 3.164 | 312.3 | 540.0 | 0.873 | --- | 1.26 | 0.225 | 90.1 | 327.1 | -0.2 | 0.193 |
| 4-3740 | 4-4820 | 0.486 | 119.8 | 16.3 | -1.72 | 1.288 | 110.1 | 0.725 | 3.163 | 311.6 | 540.8 | 0.869 | 5.456 | 1.23 | 0.225 | 87.9 | 326.3 | -0.3 | 0.193 |
| 4-3740 | 4-4840 | 0.491 | 120.5 | 16.3 | -1.68 | 1.288 | 110.4 | 0.727 | 3.162 | 310.9 | 541.6 | 0.865 | 5.460 | 1.21 | 0.225 | 85.8 | 325.5 | -0.3 | 0.194 |
| 4-3740 | 4-4860 | 0.496 | 121.1 | 16.3 | -1.64 | 1.288 | 110.8 | 0.728 | 3.163 | 310.1 | 542.3 | 0.860 | 5.466 | 1.18 | 0.225 | 83.8 | 324.8 | -0.4 | 0.196 |
| 4-3740 | 4-4880 | 0.501 | 121.8 | 16.3 | -1.60 | 1.289 | 111.1 | 0.730 | 3.165 | 309.4 | 543.1 | 0.856 | 5.475 | 1.16 | 0.225 | 81.8 | 324.3 | -0.5 | 0.197 |
| 4-3740 | 4-4900 | 0.507 | 122.5 | 16.3 | -1.56 | 1.289 | 111.4 | 0.731 | 3.168 | 308.6 | 543.8 | 0.851 | 5.485 | 1.14 | 0.226 | 79.8 | 323.8 | -0.5 | 0.199 |
| 4-3740 | 4-4920 | 0.513 | 123.2 | 16.3 | -1.52 | 1.289 | 111.8 | 0.733 | 3.172 | 307.7 | 544.5 | 0.846 | 5.497 | 1.12 | 0.227 | 78.0 | 323.4 | -0.6 | 0.201 |
| 4-3740 | 4-4940 | 0.519 | 123.9 | 16.3 | -1.49 | 1.289 | 112.2 | 0.735 | 3.176 | 306.9 | 545.2 | 0.841 | 5.511 | 1.10 | 0.228 | 76.1 | 323.1 | -0.6 | 0.203 |
| 4-3740 | 4-4960 | 0.525 | 124.6 | 16.3 | -1.46 | 1.289 | 112.6 | 0.737 | 3.181 | 306.0 | 545.8 | 0.835 | 5.527 | 1.08 | 0.230 | 74.4 | 322.9 | -0.7 | 0.205 |
| 4-3740 | 4-4980 | 0.532 | 125.3 | 16.2 | -1.42 | 1.289 | 113.0 | 0.740 | 3.187 | 305.1 | 546.4 | 0.829 | 5.544 | 1.07 | 0.231 | 72.7 | 322.7 | -0.7 | 0.208 |
| 4-3740 | 4-5000 | 0.538 | 126.1 | 16.2 | -1.39 | 1.290 | 113.4 | 0.742 | 3.193 | 304.2 | 547.0 | 0.823 | 5.563 | 1.05 | 0.233 | 71.0 | 322.7 | -0.8 | 0.211 |
| 4-3740 | 4-5020 | 0.546 | 126.8 | 16.1 | -1.36 | 1.290 | 113.9 | 0.745 | 3.200 | 303.3 | 547.6 | 0.817 | 5.582 | 1.04 | 0.234 | 69.4 | 322.7 | -0.8 | 0.213 |
| 4-3740 | 4-5040 | 0.553 | 127.5 | 16.1 | -1.33 | 1.290 | 114.3 | 0.747 | 3.207 | 302.3 | 548.1 | 0.810 | 5.603 | 1.02 | 0.236 | 67.9 | 322.8 | -0.8 | 0.216 |
| 4-3740 | 4-5060 | 0.560 | 128.3 | 16.0 | -1.30 | 1.290 | 114.8 | 0.750 | 3.214 | 301.3 | 548.7 | 0.804 | 5.625 | 1.01 | 0.238 | 66.4 | 323.0 | -0.8 | 0.219 |
| 4-3740 | 4-5080 | 0.568 | 129.0 | 15.9 | -1.27 | 1.291 | 115.2 | 0.753 | 3.223 | 300.3 | 549.2 | 0.797 | 5.648 | 1.00 | 0.240 | 65.0 | 323.2 | -0.9 | 0.223 |
| 4-3740 | 4-5100 | 0.576 | 129.8 | 15.8 | -1.24 | 1.291 | 115.7 | 0.756 | 3.231 | 299.3 | 549.7 | 0.789 | 5.672 | 0.99 | 0.242 | 63.5 | 323.5 | -0.9 | 0.226 |
| 4-3740 | 4-5120 | 0.584 | 130.5 | 15.7 | -1.22 | 1.291 | 116.2 | 0.759 | 3.240 | 298.2 | 550.1 | 0.782 | 5.698 | 0.98 | 0.244 | 62.2 | 323.9 | -0.9 | 0.229 |
| 4-3740 | 4-5140 | 0.593 | 131.3 | 15.6 | -1.19 | 1.292 | 116.7 | 0.762 | 3.249 | 297.2 | 550.6 | 0.774 | 5.724 | 0.97 | 0.246 | 60.9 | 324.4 | -0.9 | 0.233 |
| 4-3740 | 4-5160 | 0.602 | 132.1 | 15.5 | -1.16 | 1.292 | 117.2 | 0.765 | 3.258 | 296.1 | 551.0 | 0.766 | 5.750 | 0.97 | 0.249 | 59.6 | 324.8 | -0.9 | 0.236 |
| 4-3740 | 4-5180 | 0.611 | 132.8 | 15.4 | -1.14 | 1.292 | 117.7 | 0.768 | 3.268 | 295.0 | 551.4 | 0.758 | 5.778 | 0.96 | 0.251 | 58.3 | 325.4 | -0.9 | 0.240 |
| 4-3740 | 4-5200 | 0.620 | 133.6 | 15.3 | -1.11 | 1.293 | 118.3 | 0.771 | 3.278 | 293.8 | 551.8 | 0.749 | 5.806 | 0.95 | 0.253 | 57.1 | 326.0 | -0.9 | 0.243 |
| 4-3740 | 4-5220 | 0.629 | 134.4 | 15.2 | -1.08 | 1.293 | 118.8 | 0.775 | 3.288 | 292.7 | 552.2 | 0.740 | 5.836 | 0.95 | 0.256 | 56.0 | 326.7 | -0.9 | 0.247 |
| 4-3740 | 4-5240 | 0.639 | 135.1 | 15.1 | -1.06 | 1.294 | 119.4 | 0.778 | 3.298 | 291.5 | 552.6 | 0.731 | 5.866 | 0.95 | 0.258 | 54.8 | 327.4 | -0.9 | 0.251 |
| 4-3740 | 4-5260 | 0.649 | 135.9 | 14.9 | -1.03 | 1.294 | 120.0 | 0.782 | 3.309 | 290.3 | 552.9 | 0.722 | 5.896 | 0.94 | 0.260 | 53.7 | 328.1 | -0.8 | 0.255 |
| 4-3740 | 4-5280 | 0.659 | 136.7 | 14.8 | -1.01 | 1.294 | 120.6 | 0.785 | 3.320 | 289.1 | 553.2 | 0.712 | 5.927 | 0.94 | 0.263 | 52.6 | 328.9 | -0.8 | 0.259 |
| 4-3740 | 4-5300 | 0.670 | 137.4 | 14.7 | -0.98 | 1.295 | 121.2 | 0.789 | 3.331 | 287.9 | 553.6 | 0.702 | 5.959 | 0.94 | 0.265 | 51.6 | 329.7 | -0.8 | 0.263 |
| 4-3740 | 4-5320 | 0.680 | 138.2 | 14.5 | -0.96 | 1.295 | 121.8 | 0.793 | 3.342 | 286.6 | 553.8 | 0.692 | 5.992 | 0.94 | 0.268 | 50.5 | 330.6 | -0.8 | 0.267 |
| 4-3740 | 4-5340 | 0.691 | 139.0 | 14.3 | -0.93 | 1.295 | 122.4 | 0.797 | 3.353 | 285.3 | 554.1 | 0.682 | 6.025 | 0.93 | 0.270 | 49.5 | 331.5 | -0.8 | 0.271 |
| 4-3750 | 4-4150 | 0.638 | 126.3 | 28.9 | 4.45 | 1.446 | 111.8 | 1.097 | -9.001 | 318.5 | 486.8 | 0.877 | --- | -5.30 | 0.696 | 158.7 | 352.1 | -2.5 | 0.656 |
| 4-3750 | 4-4170 | 0.609 | 126.1 | 31.2 | 5.27 | 1.426 | 110.8 | 1.046 | 19.170 | 319.4 | 489.3 | 0.886 | --- | -6.11 | 0.652 | 157.4 | 352.4 | -2.9 | 0.612 |
| 4-3750 | 4-4190 | 0.587 | 126.3 | 34.2 | 6.38 | 1.408 | 109.9 | 1.002 | 50.762 | 320.3 | 491.7 | 0.893 | --- | -7.21 | 0.612 | 156.0 | 352.6 | -3.5 | 0.573 |
| 4-3750 | 4-4210 | 0.571 | 127.1 | 38.3 | 7.97 | 1.393 | 109.0 | 0.964 | 24.788 | 321.2 | 494.1 | 0.900 | --- | -8.78 | 0.576 | 154.6 | 352.7 | -4.4 | 0.537 |
| 4-3750 | 4-4230 | 0.567 | 129.3 | 44.2 | 10.44 | 1.380 | 108.3 | 0.930 | 13.014 | 322.0 | 496.5 | 0.907 | --- | -11.24 | 0.543 | 153.1 | 352.7 | -5.8 | 0.506 |
| 4-3750 | 4-4250 | 0.587 | 135.5 | 53.1 | 14.77 | 1.368 | 107.6 | 0.901 | 9.238 | 322.8 | 498.8 | 0.912 | --- | -15.55 | 0.513 | 151.5 | 352.3 | -8.3 | 0.480 |
| 4-3750 | 4-4270 | 0.684 | 159.9 | 65.4 | 24.15 | 1.358 | 107.0 | 0.876 | 7.388 | 323.5 | 501.0 | 0.918 | --- | -24.91 | 0.486 | 149.9 | 350.9 | -13.2 | 0.465 |
| 4-3750 | 4-4290 | 1.129 | 227.4 | 56.2 | 53.74 | 1.350 | 106.3 | 0.853 | 6.295 | 324.5 | 503.1 | 0.923 | --- | -54.49 | 0.460 | 148.2 | 342.8 | -23.7 | 0.511 |
| 4-3750 | 4-4310 | 1.141 | 141.1 | -60.7 | -54.84 | 1.342 | 106.3 | 0.835 | 5.578 | 324.0 | 505.3 | 0.922 | --- | 54.11 | 0.437 | 146.6 | 340.0 | 22.4 | 0.491 |
| 4-3750 | 4-4330 | 0.677 | 116.6 | -35.2 | -25.58 | 1.335 | 105.8 | 0.817 | 5.075 | 324.8 | 507.4 | 0.927 | --- | 24.86 | 0.416 | 144.7 | 348.6 | 14.1 | 0.399 |
| 4-3750 | 4-4350 | 0.550 | 113.8 | -19.8 | -16.28 | 1.330 | 105.4 | 0.802 | 4.704 | 325.3 | 509.3 | 0.930 | --- | 15.57 | 0.397 | 142.9 | 350.2 | 9.6 | 0.365 |
| 4-3750 | 4-4370 | 0.498 | 113.1 | -10.9 | -11.97 | 1.325 | 105.1 | 0.789 | 4.422 | 325.7 | 511.2 | 0.933 | --- | 11.28 | 0.379 | 140.9 | 350.5 | 7.3 | 0.342 |
| 4-3750 | 4-4390 | 0.470 | 112.9 | -5.2 | -9.51 | 1.320 | 104.8 | 0.778 | 4.202 | 326.1 | 513.1 | 0.935 | --- | 8.83 | 0.362 | 138.9 | 350.3 | 6.0 | 0.323 |
| 4-3750 | 4-4410 | 0.453 | 112.8 | -1.3 | -7.92 | 1.316 | 104.6 | 0.767 | 4.025 | 326.3 | 514.8 | 0.936 | --- | 7.26 | 0.347 | 136.9 | 349.9 | 5.1 | 0.307 |
| 4-3750 | 4-4430 | 0.441 | 112.8 | 1.5 | -6.82 | 1.313 | 104.4 | 0.759 | 3.883 | 326.5 | 516.6 | 0.938 | --- | 6.17 | 0.334 | 134.8 | 349.3 | 4.4 | 0.292 |
| 4-3750 | 4-4450 | 0.432 | 112.8 | 3.7 | -6.00 | 1.310 | 104.2 | 0.751 | 3.766 | 326.6 | 518.2 | 0.939 | --- | 5.36 | 0.321 | 132.6 | 348.6 | 3.9 | 0.279 |
| 4-3750 | 4-4470 | 0.426 | 112.9 | 5.4 | -5.37 | 1.307 | 104.1 | 0.744 | 3.669 | 326.7 | 519.8 | 0.939 | --- | 4.75 | 0.310 | 130.4 | 347.9 | 3.6 | 0.267 |
| 4-3750 | 4-4490 | 0.421 | 113.0 | 6.8 | -4.87 | 1.305 | 104.1 | 0.738 | 3.588 | 326.7 | 521.3 | 0.940 | --- | 4.26 | 0.299 | 128.1 | 347.0 | 3.2 | 0.256 |
| 4-3750 | 4-4510 | 0.417 | 113.1 | 7.9 | -4.46 | 1.302 | 104.0 | 0.733 | 3.519 | 326.7 | 522.8 | 0.940 | --- | 3.87 | 0.290 | 125.8 | 346.0 | 3.0 | 0.246 |
| 4-3750 | 4-4530 | 0.414 | 113.3 | 8.9 | -4.12 | 1.301 | 104.0 | 0.729 | 3.462 | 326.6 | 524.3 | 0.940 | --- | 3.55 | 0.281 | 123.5 | 345.0 | 2.7 | 0.237 |
| 4-3750 | 4-4550 | 0.411 | 113.6 | 9.7 | -3.84 | 1.299 | 104.0 | 0.725 | 3.413 | 326.5 | 526.6 | 0.939 | --- | 3.27 | 0.273 | 121.1 | 343.9 | 2.5 | 0.229 |
| 4-3750 | 4-4570 | 0.410 | 113.9 | 10.4 | -3.59 | 1.298 | 104.0 | 0.722 | 3.372 | 326.3 | 527.0 | 0.939 | --- | 3.04 | 0.266 | 118.7 | 342.7 | 2.3 | 0.222 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3750 | 4-4590 | 0.409 | 114.2 | 11.0 | -3.38 | 1.296 | 104.1 | 0.719 | 3.337 | 326.1 | 528.3 | 0.938 | --- | 2.84 | 0.260 | 116.3 | 341.5 | 2.1 | 0.216 |
| 4-3750 | 4-4610 | 0.409 | 114.6 | 11.5 | -3.19 | 1.295 | 104.2 | 0.717 | 3.307 | 325.8 | 529.5 | 0.937 | --- | 2.67 | 0.255 | 113.9 | 340.3 | 1.9 | 0.210 |
| 4-3750 | 4-4630 | 0.409 | 115.0 | 12.0 | -3.02 | 1.295 | 104.3 | 0.715 | 3.282 | 325.5 | 530.7 | 0.936 | --- | 2.52 | 0.250 | 111.4 | 339.0 | 1.8 | 0.205 |
| 4-3750 | 4-4650 | 0.410 | 115.5 | 12.4 | -2.88 | 1.294 | 104.4 | 0.713 | 3.260 | 325.1 | 531.8 | 0.934 | --- | 2.39 | 0.246 | 109.0 | 337.7 | 1.6 | 0.201 |
| 4-3750 | 4-4670 | 0.411 | 116.0 | 12.8 | -2.74 | 1.293 | 104.6 | 0.712 | 3.243 | 324.7 | 532.9 | 0.933 | --- | 2.27 | 0.242 | 106.6 | 336.5 | 1.4 | 0.198 |
| 4-3750 | 4-4690 | 0.412 | 116.6 | 13.1 | -2.62 | 1.293 | 104.8 | 0.712 | 3.228 | 324.3 | 534.0 | 0.931 | --- | 2.16 | 0.239 | 104.2 | 335.2 | 1.3 | 0.195 |
| 4-3750 | 4-4710 | 0.414 | 117.1 | 13.4 | -2.51 | 1.292 | 104.9 | 0.711 | 3.216 | 323.8 | 535.1 | 0.929 | --- | 2.07 | 0.236 | 101.9 | 334.0 | 1.1 | 0.193 |
| 4-3750 | 4-4730 | 0.416 | 117.7 | 13.6 | -2.41 | 1.292 | 105.1 | 0.711 | 3.206 | 323.3 | 536.1 | 0.927 | --- | 1.98 | 0.234 | 99.6 | 332.8 | 1.0 | 0.191 |
| 4-3750 | 4-4750 | 0.419 | 118.4 | 13.8 | -2.32 | 1.291 | 105.4 | 0.711 | 3.198 | 322.7 | 537.0 | 0.924 | --- | 1.91 | 0.232 | 97.3 | 331.6 | 0.9 | 0.190 |
| 4-3750 | 4-4770 | 0.422 | 119.0 | 14.0 | -2.23 | 1.291 | 105.6 | 0.711 | 3.192 | 322.2 | 538.0 | 0.922 | --- | 1.84 | 0.231 | 95.0 | 330.6 | 0.7 | 0.189 |
| 4-3750 | 4-4790 | 0.425 | 119.7 | 14.2 | -2.15 | 1.291 | 105.9 | 0.712 | 3.188 | 321.6 | 538.9 | 0.919 | --- | 1.77 | 0.230 | 92.8 | 329.6 | 0.6 | 0.188 |
| 4-3750 | 4-4810 | 0.428 | 120.4 | 14.3 | -2.08 | 1.291 | 106.1 | 0.712 | 3.185 | 320.9 | 539.7 | 0.916 | --- | 1.71 | 0.230 | 90.7 | 328.6 | 0.5 | 0.188 |
| 4-3750 | 4-4830 | 0.432 | 121.2 | 14.5 | -2.01 | 1.291 | 106.4 | 0.713 | 3.184 | 320.3 | 540.6 | 0.913 | 5.455 | 1.66 | 0.229 | 88.6 | 327.7 | 0.4 | 0.189 |
| 4-3750 | 4-4850 | 0.436 | 121.9 | 14.6 | -1.94 | 1.291 | 106.7 | 0.714 | 3.184 | 319.6 | 541.4 | 0.909 | 5.458 | 1.61 | 0.229 | 86.6 | 327.0 | 0.3 | 0.189 |
| 4-3750 | 4-4870 | 0.440 | 122.7 | 14.6 | -1.88 | 1.291 | 107.0 | 0.716 | 3.185 | 318.8 | 542.2 | 0.906 | 5.463 | 1.56 | 0.230 | 84.6 | 326.3 | 0.2 | 0.190 |
| 4-3750 | 4-4890 | 0.445 | 123.5 | 14.7 | -1.82 | 1.291 | 107.3 | 0.717 | 3.186 | 318.1 | 542.9 | 0.902 | 5.471 | 1.52 | 0.230 | 82.7 | 325.7 | 0.1 | 0.192 |
| 4-3750 | 4-4910 | 0.450 | 124.2 | 14.8 | -1.77 | 1.291 | 107.7 | 0.718 | 3.189 | 317.3 | 543.7 | 0.898 | 5.480 | 1.48 | 0.231 | 80.8 | 325.2 | -0.0 | 0.193 |
| 4-3750 | 4-4930 | 0.455 | 125.0 | 14.8 | -1.71 | 1.291 | 108.0 | 0.720 | 3.193 | 316.5 | 544.4 | 0.894 | 5.492 | 1.45 | 0.232 | 79.0 | 324.8 | -0.1 | 0.195 |
| 4-3750 | 4-4950 | 0.460 | 125.9 | 14.8 | -1.66 | 1.291 | 108.4 | 0.722 | 3.197 | 315.7 | 545.1 | 0.889 | 5.505 | 1.41 | 0.233 | 77.3 | 324.4 | -0.2 | 0.197 |
| 4-3750 | 4-4970 | 0.466 | 126.7 | 14.8 | -1.62 | 1.292 | 108.8 | 0.724 | 3.202 | 314.8 | 545.7 | 0.885 | 5.519 | 1.38 | 0.234 | 75.6 | 324.2 | -0.2 | 0.199 |
| 4-3750 | 4-4990 | 0.472 | 127.5 | 14.8 | -1.57 | 1.292 | 109.2 | 0.726 | 3.207 | 314.0 | 546.4 | 0.880 | 5.535 | 1.36 | 0.235 | 73.9 | 324.0 | -0.3 | 0.201 |
| 4-3750 | 4-5010 | 0.478 | 128.3 | 14.8 | -1.53 | 1.292 | 109.6 | 0.728 | 3.214 | 313.1 | 547.0 | 0.875 | 5.552 | 1.33 | 0.237 | 72.3 | 323.9 | -0.3 | 0.204 |
| 4-3750 | 4-5030 | 0.484 | 129.2 | 14.7 | -1.48 | 1.292 | 110.0 | 0.730 | 3.220 | 312.1 | 547.6 | 0.870 | 5.571 | 1.30 | 0.239 | 70.8 | 323.9 | -0.4 | 0.206 |
| 4-3750 | 4-5050 | 0.491 | 130.0 | 14.7 | -1.44 | 1.293 | 110.4 | 0.732 | 3.227 | 311.2 | 548.2 | 0.864 | 5.591 | 1.28 | 0.240 | 69.3 | 324.0 | -0.4 | 0.209 |
| 4-3750 | 4-5070 | 0.497 | 130.9 | 14.6 | -1.40 | 1.293 | 110.8 | 0.735 | 3.235 | 310.2 | 548.7 | 0.858 | 5.611 | 1.26 | 0.242 | 67.9 | 324.1 | -0.5 | 0.212 |
| 4-3750 | 4-5090 | 0.504 | 131.7 | 14.6 | -1.36 | 1.293 | 111.3 | 0.737 | 3.243 | 309.3 | 549.2 | 0.853 | 5.633 | 1.24 | 0.244 | 66.5 | 324.3 | -0.5 | 0.215 |
| 4-3750 | 4-5110 | 0.512 | 132.6 | 14.5 | -1.33 | 1.293 | 111.7 | 0.740 | 3.251 | 308.3 | 549.8 | 0.846 | 5.656 | 1.22 | 0.246 | 65.2 | 324.6 | -0.5 | 0.218 |
| 4-3750 | 4-5130 | 0.519 | 133.4 | 14.4 | -1.29 | 1.294 | 112.2 | 0.742 | 3.260 | 307.2 | 550.3 | 0.840 | 5.680 | 1.20 | 0.248 | 63.9 | 325.0 | -0.5 | 0.221 |
| 4-3750 | 4-5150 | 0.527 | 134.3 | 14.3 | -1.25 | 1.294 | 112.7 | 0.745 | 3.269 | 306.2 | 550.8 | 0.833 | 5.705 | 1.19 | 0.250 | 62.6 | 325.4 | -0.6 | 0.224 |
| 4-3750 | 4-5170 | 0.535 | 135.1 | 14.2 | -1.22 | 1.294 | 113.2 | 0.748 | 3.278 | 305.1 | 551.2 | 0.826 | 5.730 | 1.17 | 0.253 | 61.4 | 325.8 | -0.6 | 0.228 |
| 4-3750 | 4-5190 | 0.543 | 136.0 | 14.1 | -1.18 | 1.295 | 113.7 | 0.751 | 3.288 | 304.0 | 551.7 | 0.819 | 5.756 | 1.16 | 0.255 | 60.2 | 326.3 | -0.6 | 0.231 |
| 4-3750 | 4-5210 | 0.552 | 136.8 | 14.0 | -1.15 | 1.295 | 114.2 | 0.754 | 3.298 | 302.9 | 552.1 | 0.812 | 5.783 | 1.15 | 0.257 | 59.0 | 326.9 | -0.6 | 0.234 |
| 4-3750 | 4-5230 | 0.560 | 137.6 | 13.8 | -1.12 | 1.295 | 114.7 | 0.757 | 3.308 | 301.8 | 552.5 | 0.804 | 5.811 | 1.14 | 0.259 | 57.9 | 327.5 | -0.6 | 0.238 |
| 4-3750 | 4-5250 | 0.569 | 138.5 | 13.7 | -1.09 | 1.296 | 115.2 | 0.760 | 3.318 | 300.7 | 552.9 | 0.796 | 5.840 | 1.13 | 0.262 | 56.8 | 328.2 | -0.6 | 0.241 |
| 4-3750 | 4-5270 | 0.578 | 139.3 | 13.5 | -1.06 | 1.296 | 115.8 | 0.763 | 3.329 | 299.5 | 553.3 | 0.788 | 5.869 | 1.12 | 0.264 | 55.7 | 328.9 | -0.6 | 0.245 |
| 4-3750 | 4-5290 | 0.588 | 140.2 | 13.4 | -1.02 | 1.297 | 116.3 | 0.767 | 3.339 | 298.3 | 553.6 | 0.780 | 5.899 | 1.11 | 0.266 | 54.7 | 329.7 | -0.6 | 0.249 |
| 4-3750 | 4-5310 | 0.597 | 141.0 | 13.2 | -0.99 | 1.297 | 116.9 | 0.770 | 3.350 | 297.1 | 554.0 | 0.771 | 5.929 | 1.10 | 0.269 | 53.7 | 330.5 | -0.6 | 0.252 |
| 4-3750 | 4-5330 | 0.607 | 141.8 | 13.1 | -0.96 | 1.297 | 117.5 | 0.773 | 3.361 | 295.9 | 554.3 | 0.762 | 5.960 | 1.10 | 0.271 | 52.7 | 331.3 | -0.5 | 0.256 |
| 4-3750 | 4-5350 | 0.617 | 142.7 | 12.9 | -0.93 | 1.298 | 118.1 | 0.777 | 3.372 | 294.7 | 554.6 | 0.753 | 5.992 | 1.09 | 0.274 | 51.7 | 332.2 | -0.5 | 0.260 |
| 4-3760 | 4-4120 | 0.647 | 128.6 | 23.5 | 2.14 | 1.497 | 109.8 | 1.231 | -3.905 | 324.2 | 480.4 | 0.902 | --- | -2.94 | 0.794 | 160.5 | 352.6 | -1.4 | 0.749 |
| 4-3760 | 4-4140 | 0.608 | 127.7 | 24.5 | 2.36 | 1.470 | 108.7 | 1.159 | -5.743 | 325.3 | 483.1 | 0.911 | --- | -3.14 | 0.740 | 159.3 | 353.0 | -1.6 | 0.695 |
| 4-3760 | 4-4160 | 0.575 | 126.7 | 25.6 | 2.60 | 1.446 | 107.6 | 1.097 | -9.483 | 326.3 | 485.7 | 0.919 | --- | -3.37 | 0.692 | 158.0 | 353.3 | -1.7 | 0.647 |
| 4-3760 | 4-4180 | 0.546 | 125.9 | 26.8 | 2.88 | 1.426 | 106.7 | 1.044 | 21.034 | 327.3 | 488.3 | 0.926 | --- | -3.63 | 0.648 | 156.7 | 353.5 | -1.9 | 0.604 |
| 4-3760 | 4-4200 | 0.522 | 125.0 | 28.1 | 3.21 | 1.408 | 105.8 | 0.999 | 65.653 | 328.3 | 490.8 | 0.932 | --- | -3.94 | 0.609 | 155.3 | 353.8 | -2.1 | 0.565 |
| 4-3760 | 4-4220 | 0.500 | 124.3 | 29.7 | 3.60 | 1.394 | 105.1 | 0.959 | 23.048 | 329.2 | 493.3 | 0.938 | --- | -4.32 | 0.573 | 153.9 | 353.9 | -2.4 | 0.529 |
| 4-3760 | 4-4240 | 0.483 | 123.7 | 31.5 | 4.07 | 1.381 | 104.4 | 0.925 | 12.615 | 330.1 | 495.7 | 0.943 | --- | -4.77 | 0.541 | 152.4 | 354.0 | -2.7 | 0.497 |
| 4-3760 | 4-4260 | 0.468 | 123.2 | 33.6 | 4.65 | 1.369 | 103.7 | 0.896 | 9.078 | 330.9 | 498.1 | 0.947 | --- | -5.34 | 0.511 | 150.9 | 354.0 | -3.2 | 0.467 |
| 4-3760 | 4-4280 | 0.456 | 123.0 | 36.2 | 5.39 | 1.360 | 103.2 | 0.870 | 7.309 | 331.7 | 500.4 | 0.951 | --- | -6.06 | 0.484 | 149.3 | 353.9 | -3.7 | 0.440 |
| 4-3760 | 4-4300 | 0.449 | 123.2 | 39.4 | 6.35 | 1.351 | 102.7 | 0.847 | 6.253 | 332.4 | 502.6 | 0.955 | --- | -7.00 | 0.459 | 147.6 | 353.8 | -4.5 | 0.416 |
| 4-3760 | 4-4320 | 0.446 | 124.0 | 43.5 | 7.66 | 1.344 | 102.2 | 0.828 | 5.556 | 333.0 | 504.8 | 0.958 | --- | -8.30 | 0.436 | 145.8 | 353.6 | -5.5 | 0.393 |
| 4-3760 | 4-4340 | 0.451 | 126.0 | 49.1 | 9.57 | 1.337 | 101.8 | 0.810 | 5.064 | 333.5 | 506.8 | 0.960 | --- | -10.19 | 0.415 | 144.0 | 353.2 | -7.0 | 0.374 |
| 4-3760 | 4-4360 | 0.471 | 130.9 | 56.8 | 12.57 | 1.331 | 101.5 | 0.795 | 4.701 | 334.0 | 508.8 | 0.962 | --- | -13.17 | 0.396 | 142.2 | 352.6 | -9.3 | 0.358 |
| 4-3760 | 4-4380 | 0.529 | 146.0 | 67.1 | 17.97 | 1.326 | 101.2 | 0.782 | 4.424 | 334.5 | 510.8 | 0.964 | --- | -18.55 | 0.379 | 140.2 | 351.5 | -13.3 | 0.348 |
| 4-3760 | 4-4400 | 0.704 | 204.5 | 72.5 | 30.10 | 1.322 | 100.9 | 0.770 | 4.206 | 335.0 | 512.7 | 0.966 | --- | -30.67 | 0.363 | 138.3 | 348.5 | -20.8 | 0.358 |
| 4-3760 | 4-4420 | 1.323 | 248.3 | 44.7 | 67.99 | 1.318 | 100.5 | 0.760 | 4.033 | 335.7 | 514.4 | 0.969 | --- | -68.55 | 0.348 | 136.2 | 335.7 | -30.0 | 0.468 |
| 4-3760 | 4-4440 | 1.008 | 129.4 | -65.9 | -48.60 | 1.315 | 100.9 | 0.752 | 3.892 | 334.6 | 516.2 | 0.966 | --- | 48.06 | 0.334 | 134.2 | 338.9 | 26.4 | 0.386 |
| 4-3760 | 4-4460 | 0.617 | 112.2 | -41.8 | -25.09 | 1.312 | 100.6 | 0.744 | 3.776 | 335.0 | 517.9 | 0.967 | --- | 24.56 | 0.322 | 132.0 | 345.8 | 18.3 | 0.305 |
| 4-3760 | 4-4480 | 0.493 | 110.4 | -26.7 | -16.57 | 1.309 | 100.5 | 0.737 | 3.680 | 335.2 | 519.5 | 0.968 | --- | 16.06 | 0.311 | 129.8 | 347.1 | 13.1 | 0.277 |
| 4-3760 | 4-4500 | 0.440 | 110.3 | -17.0 | -12.37 | 1.307 | 100.4 | 0.731 | 3.600 | 335.3 | 521.1 | 0.969 | --- | 11.87 | 0.301 | 127.6 | 347.0 | 10.2 | 0.260 |
| 4-3760 | 4-4520 | 0.413 | 110.5 | -10.5 | -9.89 | 1.305 | 100.4 | 0.726 | 3.533 | 335.3 | 522.6 | 0.969 | --- | 9.41 | 0.291 | 125.3 | 346.4 | 8.3 | 0.248 |
| 4-3760 | 4-4540 | 0.398 | 110.8 | -5.8 | -8.26 | 1.303 | 100.3 | 0.721 | 3.476 | 335.2 | 524.0 | 0.969 | --- | 7.79 | 0.283 | 123.0 | 345.6 | 7.0 | 0.237 |
| 4-3760 | 4-4560 | 0.388 | 111.2 | -2.4 | -7.10 | 1.301 | 100.4 | 0.717 | 3.428 | 335.1 | 525.4 | 0.968 | --- | 6.65 | 0.275 | 120.6 | 344.6 | 6.1 | 0.228 |
| 4-3760 | 4-4580 | 0.381 | 111.7 | 0.3 | -6.24 | 1.300 | 100.4 | 0.714 | 3.387 | 335.0 | 526.7 | 0.968 | --- | 5.81 | 0.269 | 118.3 | 343.5 | 5.4 | 0.221 |
| 4-3760 | 4-4600 | 0.377 | 112.1 | 2.4 | -5.57 | 1.299 | 100.5 | 0.711 | 3.352 | 334.8 | 528.0 | 0.967 | --- | 5.16 | 0.263 | 115.9 | 342.4 | 4.8 | 0.214 |
| 4-3760 | 4-4620 | 0.374 | 112.6 | 4.2 | -5.04 | 1.298 | 100.5 | 0.709 | 3.323 | 334.5 | 529.3 | 0.967 | --- | 4.64 | 0.257 | 113.5 | 341.2 | 4.3 | 0.208 |
| 4-3760 | 4-4640 | 0.372 | 113.2 | 5.6 | -4.60 | 1.297 | 100.7 | 0.707 | 3.298 | 334.2 | 530.5 | 0.966 | --- | 4.22 | 0.253 | 111.1 | 340.0 | 3.8 | 0.203 |
| 4-3760 | 4-4660 | 0.371 | 113.8 | 6.8 | -4.24 | 1.296 | 100.8 | 0.706 | 3.277 | 333.8 | 531.6 | 0.965 | --- | 3.87 | 0.249 | 108.8 | 338.8 | 3.5 | 0.199 |
| 4-3760 | 4-4680 | 0.371 | 114.4 | 7.8 | -3.93 | 1.296 | 100.9 | 0.704 | 3.259 | 333.4 | 532.8 | 0.964 | --- | 3.58 | 0.245 | 106.4 | 337.5 | 3.1 | 0.195 |
| 4-3760 | 4-4700 | 0.371 | 115.1 | 8.6 | -3.66 | 1.295 | 101.1 | 0.703 | 3.244 | 333.0 | 533.8 | 0.962 | --- | 3.33 | 0.242 | 104.1 | 336.3 | 2.8 | 0.192 |
| 4-3760 | 4-4720 | 0.372 | 115.8 | 9.3 | -3.43 | 1.295 | 101.3 | 0.703 | 3.233 | 332.5 | 534.9 | 0.961 | --- | 3.11 | 0.240 | 101.8 | 335.1 | 2.6 | 0.190 |
| 4-3760 | 4-4740 | 0.373 | 116.5 | 10.0 | -3.23 | 1.294 | 101.5 | 0.702 | 3.223 | 332.0 | 535.9 | 0.959 | --- | 2.93 | 0.238 | 99.5 | 333.9 | 2.3 | 0.188 |
| 4-3760 | 4-4760 | 0.374 | 117.3 | 10.5 | -3.05 | 1.294 | 101.7 | 0.702 | 3.215 | 331.5 | 536.9 | 0.957 | --- | 2.76 | 0.236 | 97.3 | 332.8 | 2.1 | 0.187 |
| 4-3760 | 4-4780 | 0.376 | 118.1 | 11.0 | -2.89 | 1.294 | 101.9 | 0.702 | 3.210 | 330.9 | 537.8 | 0.955 | --- | 2.62 | 0.235 | 95.1 | 331.7 | 1.8 | 0.186 |
| 4-3760 | 4-4800 | 0.379 | 119.0 | 11.4 | -2.74 | 1.294 | 102.2 | 0.703 | 3.205 | 330.3 | 538.7 | 0.953 | --- | 2.49 | 0.234 | 93.0 | 330.7 | 1.6 | 0.185 |
| 4-3760 | 4-4820 | 0.381 | 119.8 | 11.8 | -2.61 | 1.293 | 102.4 | 0.703 | 3.203 | 329.7 | 539.6 | 0.951 | --- | 2.38 | 0.233 | 90.9 | 329.8 | 1.5 | 0.185 |
| 4-3760 | 4-4840 | 0.384 | 120.7 | 12.1 | -2.49 | 1.293 | 102.7 | 0.704 | 3.202 | 329.1 | 540.5 | 0.948 | 5.455 | 2.27 | 0.233 | 88.9 | 328.9 | 1.3 | 0.185 |
| 4-3760 | 4-4860 | 0.387 | 121.6 | 12.3 | -2.38 | 1.293 | 103.0 | 0.705 | 3.201 | 328.4 | 541.3 | 0.946 | 5.457 | 2.18 | 0.233 | 87.0 | 328.1 | 1.1 | 0.186 |
| 4-3760 | 4-4880 | 0.391 | 122.5 | 12.6 | -2.28 | 1.293 | 103.3 | 0.706 | 3.202 | 327.7 | 542.1 | 0.943 | 5.462 | 2.09 | 0.233 | 85.1 | 327.4 | 1.0 | 0.186 |
| 4-3760 | 4-4900 | 0.395 | 123.4 | 12.7 | -2.19 | 1.294 | 103.6 | 0.707 | 3.204 | 326.9 | 542.8 | 0.940 | 5.469 | 2.02 | 0.234 | 83.2 | 326.8 | 0.8 | 0.188 |
| 4-3760 | 4-4920 | 0.399 | 124.4 | 12.9 | -2.10 | 1.294 | 103.9 | 0.708 | 3.207 | 326.2 | 543.6 | 0.937 | 5.477 | 1.95 | 0.235 | 81.4 | 326.3 | 0.7 | 0.189 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3760 | 4-4940 | 0.403 | 125.3 | 13.0 | -2.02 | 1.294 | 104.3 | 0.709 | 3.211 | 325.4 | 544.3 | 0.933 | 5.488 | 1.88 | 0.236 | 79.7 | 325.9 | 0.6 | 0.190 |
| 4-3760 | 4-4960 | 0.407 | 126.3 | 13.1 | -1.94 | 1.294 | 104.6 | 0.711 | 3.215 | 324.6 | 545.0 | 0.930 | 5.500 | 1.82 | 0.237 | 78.0 | 325.5 | 0.5 | 0.192 |
| 4-3760 | 4-4980 | 0.412 | 127.2 | 13.2 | -1.87 | 1.294 | 105.0 | 0.712 | 3.220 | 323.7 | 545.7 | 0.926 | 5.514 | 1.77 | 0.238 | 76.4 | 325.3 | 0.4 | 0.194 |
| 4-3760 | 4-5000 | 0.417 | 128.2 | 13.3 | -1.80 | 1.294 | 105.4 | 0.714 | 3.226 | 322.9 | 546.3 | 0.922 | 5.529 | 1.72 | 0.239 | 74.8 | 325.1 | 0.3 | 0.196 |
| 4-3760 | 4-5020 | 0.423 | 129.2 | 13.3 | -1.74 | 1.295 | 105.7 | 0.716 | 3.232 | 322.0 | 547.0 | 0.918 | 5.545 | 1.67 | 0.241 | 73.3 | 325.0 | 0.2 | 0.199 |
| 4-3760 | 4-5040 | 0.428 | 130.2 | 13.3 | -1.67 | 1.295 | 106.1 | 0.718 | 3.238 | 321.1 | 547.6 | 0.914 | 5.563 | 1.63 | 0.242 | 71.8 | 325.0 | 0.1 | 0.201 |
| 4-3760 | 4-5060 | 0.434 | 131.2 | 13.3 | -1.62 | 1.295 | 106.5 | 0.720 | 3.246 | 320.2 | 548.2 | 0.910 | 5.582 | 1.59 | 0.244 | 70.4 | 325.0 | 0.0 | 0.203 |
| 4-3760 | 4-5080 | 0.440 | 132.2 | 13.3 | -1.56 | 1.295 | 107.0 | 0.722 | 3.253 | 319.2 | 548.8 | 0.905 | 5.601 | 1.56 | 0.246 | 69.0 | 325.1 | -0.0 | 0.206 |
| 4-3760 | 4-5100 | 0.446 | 133.1 | 13.2 | -1.51 | 1.296 | 107.4 | 0.724 | 3.261 | 318.3 | 549.3 | 0.900 | 5.622 | 1.52 | 0.248 | 67.7 | 325.3 | -0.1 | 0.209 |
| 4-3760 | 4-5120 | 0.452 | 134.1 | 13.2 | -1.46 | 1.296 | 107.8 | 0.726 | 3.270 | 317.3 | 549.9 | 0.895 | 5.644 | 1.49 | 0.250 | 66.4 | 325.6 | -0.1 | 0.212 |
| 4-3760 | 4-5140 | 0.459 | 135.1 | 13.1 | -1.41 | 1.296 | 108.3 | 0.729 | 3.278 | 316.3 | 550.4 | 0.890 | 5.667 | 1.46 | 0.252 | 65.1 | 325.9 | -0.2 | 0.215 |
| 4-3760 | 4-5160 | 0.466 | 136.1 | 13.0 | -1.36 | 1.297 | 108.7 | 0.731 | 3.287 | 315.3 | 550.9 | 0.884 | 5.690 | 1.43 | 0.254 | 63.9 | 326.3 | -0.2 | 0.217 |
| 4-3760 | 4-5180 | 0.473 | 137.1 | 12.9 | -1.32 | 1.297 | 109.2 | 0.734 | 3.297 | 314.2 | 551.4 | 0.878 | 5.715 | 1.41 | 0.256 | 62.7 | 326.7 | -0.2 | 0.221 |
| 4-3760 | 4-5200 | 0.480 | 138.0 | 12.8 | -1.27 | 1.297 | 109.7 | 0.736 | 3.306 | 313.2 | 551.9 | 0.872 | 5.740 | 1.38 | 0.258 | 61.6 | 327.2 | -0.3 | 0.224 |
| 4-3760 | 4-5220 | 0.488 | 139.0 | 12.7 | -1.23 | 1.298 | 110.1 | 0.739 | 3.316 | 312.1 | 552.3 | 0.866 | 5.766 | 1.36 | 0.260 | 60.5 | 327.8 | -0.3 | 0.227 |
| 4-3760 | 4-5240 | 0.496 | 140.0 | 12.5 | -1.19 | 1.298 | 110.6 | 0.741 | 3.326 | 311.0 | 552.7 | 0.860 | 5.792 | 1.34 | 0.263 | 59.4 | 328.4 | -0.3 | 0.230 |
| 4-3760 | 4-5260 | 0.504 | 140.9 | 12.4 | -1.15 | 1.298 | 111.1 | 0.744 | 3.336 | 309.9 | 553.2 | 0.853 | 5.819 | 1.32 | 0.265 | 58.4 | 329.0 | -0.3 | 0.233 |
| 4-3760 | 4-5280 | 0.512 | 141.9 | 12.2 | -1.11 | 1.299 | 111.7 | 0.747 | 3.347 | 308.7 | 553.6 | 0.846 | 5.847 | 1.31 | 0.267 | 57.4 | 329.7 | -0.3 | 0.237 |
| 4-3760 | 4-5300 | 0.521 | 142.8 | 12.1 | -1.07 | 1.299 | 112.2 | 0.750 | 3.357 | 307.6 | 554.0 | 0.839 | 5.876 | 1.29 | 0.270 | 56.4 | 330.4 | -0.3 | 0.240 |
| 4-3760 | 4-5320 | 0.529 | 143.8 | 11.9 | -1.03 | 1.299 | 112.7 | 0.753 | 3.368 | 306.4 | 554.3 | 0.832 | 5.905 | 1.28 | 0.272 | 55.4 | 331.2 | -0.3 | 0.244 |
| 4-3760 | 4-5340 | 0.538 | 144.7 | 11.7 | -0.99 | 1.300 | 113.3 | 0.756 | 3.379 | 305.2 | 554.7 | 0.824 | 5.935 | 1.26 | 0.274 | 54.5 | 332.0 | -0.3 | 0.247 |
| 4-3760 | 4-5360 | 0.547 | 145.6 | 11.6 | -0.96 | 1.300 | 113.8 | 0.759 | 3.390 | 304.0 | 555.0 | 0.816 | 5.965 | 1.25 | 0.277 | 53.5 | 332.9 | -0.3 | 0.251 |
| 4-3770 | 4-4110 | 0.628 | 129.8 | 22.1 | 1.51 | 1.527 | 106.5 | 1.317 | -2.943 | 331.1 | 476.9 | 0.934 | --- | -2.24 | 0.845 | 161.0 | 353.3 | -1.1 | 0.796 |
| 4-3770 | 4-4130 | 0.586 | 128.5 | 22.9 | 1.62 | 1.495 | 105.3 | 1.229 | -4.107 | 332.3 | 479.6 | 0.941 | --- | -2.33 | 0.786 | 159.8 | 353.7 | -1.2 | 0.737 |
| 4-3770 | 4-4150 | 0.550 | 127.2 | 23.7 | 1.75 | 1.468 | 104.2 | 1.155 | -6.118 | 333.5 | 482.4 | 0.948 | --- | -2.44 | 0.733 | 158.6 | 354.0 | -1.3 | 0.685 |
| 4-3770 | 4-4170 | 0.519 | 125.9 | 24.6 | 1.88 | 1.445 | 103.3 | 1.092 | 10.374 | 334.6 | 485.1 | 0.954 | --- | -2.56 | 0.685 | 157.4 | 354.3 | -1.4 | 0.637 |
| 4-3770 | 4-4190 | 0.493 | 124.6 | 25.5 | 2.03 | 1.425 | 102.4 | 1.038 | 25.097 | 335.7 | 487.8 | 0.960 | --- | -2.69 | 0.642 | 156.1 | 354.5 | -1.5 | 0.595 |
| 4-3770 | 4-4210 | 0.470 | 123.3 | 26.5 | 2.19 | 1.408 | 101.6 | 0.992 | 23.919 | 336.8 | 490.4 | 0.964 | --- | -2.83 | 0.603 | 154.7 | 354.7 | -1.6 | 0.556 |
| 4-3770 | 4-4230 | 0.450 | 122.0 | 27.6 | 2.38 | 1.393 | 100.8 | 0.953 | 20.417 | 337.8 | 492.9 | 0.968 | --- | -3.00 | 0.568 | 153.3 | 354.8 | -1.8 | 0.521 |
| 4-3770 | 4-4250 | 0.433 | 120.9 | 28.7 | 2.58 | 1.381 | 100.2 | 0.918 | 11.900 | 338.7 | 495.4 | 0.972 | --- | -3.18 | 0.536 | 151.8 | 354.9 | -1.9 | 0.489 |
| 4-3770 | 4-4270 | 0.418 | 119.8 | 29.9 | 2.81 | 1.370 | 99.6 | 0.889 | 8.757 | 339.6 | 497.8 | 0.975 | --- | -3.40 | 0.507 | 150.2 | 354.9 | -2.1 | 0.460 |
| 4-3770 | 4-4290 | 0.406 | 118.8 | 31.2 | 3.08 | 1.360 | 99.1 | 0.863 | 7.131 | 340.4 | 500.1 | 0.978 | --- | -3.64 | 0.480 | 148.6 | 354.8 | -2.4 | 0.433 |
| 4-3770 | 4-4310 | 0.395 | 117.9 | 32.7 | 3.38 | 1.352 | 98.6 | 0.840 | 6.142 | 341.1 | 502.4 | 0.980 | --- | -3.93 | 0.456 | 146.9 | 354.7 | -2.7 | 0.408 |
| 4-3770 | 4-4330 | 0.387 | 117.1 | 34.3 | 3.74 | 1.345 | 98.2 | 0.821 | 5.482 | 341.7 | 504.6 | 0.982 | --- | -4.27 | 0.433 | 145.2 | 354.5 | -3.0 | 0.386 |
| 4-3770 | 4-4350 | 0.380 | 116.5 | 36.1 | 4.17 | 1.338 | 97.9 | 0.804 | 5.013 | 342.3 | 506.7 | 0.984 | --- | -4.68 | 0.413 | 143.4 | 354.2 | -3.5 | 0.365 |
| 4-3770 | 4-4370 | 0.375 | 116.2 | 38.3 | 4.68 | 1.333 | 97.6 | 0.789 | 4.665 | 342.8 | 508.7 | 0.985 | --- | -5.18 | 0.394 | 141.5 | 353.8 | -4.0 | 0.346 |
| 4-3770 | 4-4390 | 0.372 | 116.0 | 40.8 | 5.32 | 1.328 | 97.3 | 0.776 | 4.398 | 343.3 | 510.7 | 0.986 | --- | -5.80 | 0.377 | 139.6 | 353.4 | -4.7 | 0.329 |
| 4-3770 | 4-4410 | 0.371 | 116.2 | 43.8 | 6.13 | 1.324 | 97.1 | 0.764 | 4.188 | 343.6 | 512.6 | 0.987 | --- | -6.59 | 0.361 | 137.6 | 352.8 | -5.5 | 0.313 |
| 4-3770 | 4-4430 | 0.374 | 116.9 | 47.6 | 7.19 | 1.320 | 96.9 | 0.754 | 4.020 | 343.9 | 514.4 | 0.988 | --- | -7.64 | 0.347 | 135.5 | 352.2 | -6.6 | 0.299 |
| 4-3770 | 4-4450 | 0.382 | 118.5 | 52.4 | 8.65 | 1.316 | 96.7 | 0.745 | 3.884 | 344.2 | 516.2 | 0.989 | --- | -9.08 | 0.333 | 133.4 | 351.5 | -8.1 | 0.287 |
| 4-3770 | 4-4470 | 0.400 | 121.8 | 58.8 | 10.77 | 1.314 | 96.6 | 0.738 | 3.771 | 344.4 | 517.9 | 0.989 | --- | -11.18 | 0.321 | 131.3 | 350.6 | -10.2 | 0.277 |
| 4-3770 | 4-4490 | 0.437 | 130.0 | 67.3 | 14.15 | 1.311 | 96.5 | 0.731 | 3.678 | 344.5 | 519.5 | 0.989 | --- | -14.55 | 0.310 | 129.1 | 349.4 | -13.5 | 0.271 |
| 4-3770 | 4-4510 | 0.521 | 161.7 | 77.1 | 20.30 | 1.309 | 96.5 | 0.725 | 3.600 | 344.6 | 521.1 | 0.990 | --- | -20.68 | 0.300 | 126.8 | 347.6 | -18.8 | 0.273 |
| 4-3770 | 4-4530 | 0.748 | 240.0 | 71.0 | 34.36 | 1.307 | 96.4 | 0.720 | 3.535 | 344.8 | 522.6 | 0.990 | --- | -34.73 | 0.291 | 124.6 | 343.5 | -27.6 | 0.305 |
| 4-3770 | 4-4550 | 1.442 | 260.6 | 38.0 | 76.32 | 1.305 | 96.1 | 0.715 | 3.479 | 345.3 | 524.0 | 0.991 | --- | -76.67 | 0.283 | 122.2 | 331.4 | -32.3 | 0.455 |
| 4-3770 | 4-4570 | 0.951 | 116.7 | -69.9 | -46.26 | 1.304 | 96.8 | 0.712 | 3.432 | 343.6 | 525.4 | 0.988 | --- | 45.93 | 0.276 | 120.0 | 335.5 | 29.9 | 0.332 |
| 4-3770 | 4-4590 | 0.591 | 107.1 | -46.3 | -25.04 | 1.302 | 96.7 | 0.709 | 3.393 | 343.7 | 526.7 | 0.988 | --- | 24.73 | 0.270 | 117.7 | 340.5 | 22.1 | 0.255 |
| 4-3770 | 4-4610 | 0.466 | 106.8 | -31.3 | -16.81 | 1.301 | 96.8 | 0.706 | 3.359 | 343.6 | 528.0 | 0.988 | --- | 16.52 | 0.264 | 115.3 | 341.3 | 16.3 | 0.228 |
| 4-3770 | 4-4630 | 0.411 | 107.4 | -21.3 | -12.62 | 1.300 | 96.9 | 0.703 | 3.330 | 343.4 | 529.3 | 0.987 | --- | 12.34 | 0.259 | 113.0 | 340.9 | 12.7 | 0.215 |
| 4-3770 | 4-4650 | 0.383 | 108.2 | -14.2 | -10.11 | 1.299 | 97.0 | 0.701 | 3.306 | 343.1 | 530.5 | 0.987 | --- | 9.84 | 0.254 | 110.6 | 340.0 | 10.3 | 0.207 |
| 4-3770 | 4-4670 | 0.367 | 109.1 | -9.0 | -8.43 | 1.299 | 97.1 | 0.700 | 3.286 | 342.8 | 531.6 | 0.986 | --- | 8.18 | 0.250 | 108.3 | 339.0 | 8.6 | 0.200 |
| 4-3770 | 4-4690 | 0.357 | 109.9 | -5.1 | -7.24 | 1.298 | 97.2 | 0.699 | 3.269 | 342.4 | 532.8 | 0.985 | --- | 7.01 | 0.247 | 106.0 | 337.9 | 7.4 | 0.196 |
| 4-3770 | 4-4710 | 0.351 | 110.8 | -2.0 | -6.34 | 1.297 | 97.4 | 0.698 | 3.255 | 342.0 | 533.8 | 0.984 | --- | 6.13 | 0.244 | 103.7 | 336.8 | 6.4 | 0.192 |
| 4-3770 | 4-4730 | 0.348 | 111.8 | 0.4 | -5.64 | 1.297 | 97.6 | 0.697 | 3.243 | 341.5 | 534.9 | 0.983 | --- | 5.45 | 0.242 | 101.5 | 335.6 | 5.6 | 0.189 |
| 4-3770 | 4-4750 | 0.346 | 112.7 | 2.3 | -5.09 | 1.297 | 97.8 | 0.696 | 3.234 | 341.0 | 535.9 | 0.982 | --- | 4.91 | 0.240 | 99.3 | 334.5 | 4.9 | 0.187 |
| 4-3770 | 4-4770 | 0.345 | 113.7 | 3.9 | -4.63 | 1.296 | 98.0 | 0.696 | 3.227 | 340.6 | 536.9 | 0.981 | --- | 4.47 | 0.238 | 97.1 | 333.5 | 4.3 | 0.185 |
| 4-3770 | 4-4790 | 0.344 | 114.7 | 5.3 | -4.25 | 1.296 | 98.2 | 0.696 | 3.222 | 339.9 | 537.8 | 0.980 | --- | 4.10 | 0.237 | 95.0 | 332.4 | 3.9 | 0.184 |
| 4-3770 | 4-4810 | 0.345 | 115.7 | 6.4 | -3.92 | 1.296 | 98.5 | 0.696 | 3.218 | 339.3 | 538.7 | 0.978 | --- | 3.79 | 0.236 | 92.9 | 331.5 | 3.4 | 0.183 |
| 4-3770 | 4-4830 | 0.346 | 116.8 | 7.3 | -3.64 | 1.296 | 98.7 | 0.696 | 3.216 | 338.7 | 539.6 | 0.977 | --- | 3.53 | 0.236 | 90.9 | 330.5 | 3.1 | 0.183 |
| 4-3770 | 4-4850 | 0.347 | 117.8 | 8.1 | -3.40 | 1.296 | 99.0 | 0.697 | 3.215 | 338.0 | 540.5 | 0.975 | 5.455 | 3.30 | 0.236 | 89.0 | 329.7 | 2.7 | 0.183 |
| 4-3770 | 4-4870 | 0.349 | 118.9 | 8.8 | -3.18 | 1.296 | 99.3 | 0.697 | 3.215 | 337.3 | 541.3 | 0.973 | 5.457 | 3.11 | 0.236 | 87.1 | 329.0 | 2.4 | 0.183 |
| 4-3770 | 4-4890 | 0.351 | 120.0 | 9.4 | -2.99 | 1.296 | 99.6 | 0.698 | 3.216 | 336.6 | 542.1 | 0.971 | 5.461 | 2.93 | 0.236 | 85.2 | 328.3 | 2.1 | 0.184 |
| 4-3770 | 4-4910 | 0.354 | 121.2 | 9.9 | -2.82 | 1.296 | 99.9 | 0.699 | 3.218 | 335.9 | 542.9 | 0.969 | 5.468 | 2.78 | 0.237 | 83.4 | 327.7 | 1.9 | 0.185 |
| 4-3770 | 4-4930 | 0.357 | 122.3 | 10.3 | -2.67 | 1.296 | 100.2 | 0.700 | 3.221 | 335.1 | 543.6 | 0.966 | 5.476 | 2.64 | 0.238 | 81.7 | 327.2 | 1.7 | 0.186 |
| 4-3770 | 4-4950 | 0.360 | 123.5 | 10.7 | -2.53 | 1.296 | 100.5 | 0.701 | 3.225 | 334.4 | 544.3 | 0.964 | 5.486 | 2.52 | 0.239 | 80.0 | 326.8 | 1.5 | 0.187 |
| 4-3770 | 4-4970 | 0.363 | 124.6 | 11.0 | -2.40 | 1.297 | 100.9 | 0.702 | 3.230 | 333.6 | 545.0 | 0.961 | 5.498 | 2.41 | 0.240 | 78.4 | 326.4 | 1.3 | 0.189 |
| 4-3770 | 4-4990 | 0.367 | 125.8 | 11.2 | -2.28 | 1.297 | 101.2 | 0.704 | 3.235 | 332.7 | 545.7 | 0.959 | 5.511 | 2.31 | 0.241 | 76.8 | 326.2 | 1.1 | 0.191 |
| 4-3770 | 4-5010 | 0.371 | 127.0 | 11.4 | -2.18 | 1.297 | 101.6 | 0.705 | 3.241 | 331.9 | 546.4 | 0.956 | 5.525 | 2.22 | 0.242 | 75.3 | 326.0 | 1.0 | 0.193 |
| 4-3770 | 4-5030 | 0.375 | 128.2 | 11.6 | -2.08 | 1.297 | 101.9 | 0.707 | 3.247 | 331.0 | 547.0 | 0.953 | 5.541 | 2.14 | 0.244 | 73.8 | 325.9 | 0.9 | 0.195 |
| 4-3770 | 4-5050 | 0.379 | 129.3 | 11.7 | -1.98 | 1.297 | 102.3 | 0.708 | 3.254 | 330.1 | 547.7 | 0.949 | 5.558 | 2.07 | 0.246 | 72.4 | 325.8 | 0.7 | 0.197 |
| 4-3770 | 4-5070 | 0.384 | 130.5 | 11.8 | -1.90 | 1.298 | 102.7 | 0.710 | 3.261 | 329.2 | 548.3 | 0.946 | 5.576 | 2.00 | 0.247 | 71.1 | 325.9 | 0.6 | 0.199 |
| 4-3770 | 4-5090 | 0.389 | 131.7 | 11.8 | -1.81 | 1.298 | 103.1 | 0.712 | 3.269 | 328.3 | 548.9 | 0.942 | 5.595 | 1.94 | 0.249 | 69.7 | 326.0 | 0.5 | 0.202 |
| 4-3770 | 4-5110 | 0.394 | 132.9 | 11.8 | -1.74 | 1.298 | 103.5 | 0.714 | 3.277 | 327.3 | 549.4 | 0.939 | 5.615 | 1.88 | 0.251 | 68.5 | 326.2 | 0.4 | 0.204 |
| 4-3770 | 4-5130 | 0.400 | 134.1 | 11.8 | -1.67 | 1.299 | 104.0 | 0.716 | 3.285 | 326.4 | 550.0 | 0.935 | 5.636 | 1.83 | 0.253 | 67.2 | 326.4 | 0.4 | 0.207 |
| 4-3770 | 4-5150 | 0.405 | 135.2 | 11.8 | -1.60 | 1.299 | 104.4 | 0.718 | 3.294 | 325.4 | 550.5 | 0.930 | 5.658 | 1.78 | 0.255 | 66.0 | 326.8 | 0.3 | 0.210 |
| 4-3770 | 4-5170 | 0.411 | 136.4 | 11.8 | -1.53 | 1.299 | 104.8 | 0.720 | 3.303 | 324.4 | 551.0 | 0.926 | 5.680 | 1.73 | 0.257 | 64.9 | 327.1 | 0.2 | 0.212 |
| 4-3770 | 4-5190 | 0.417 | 137.6 | 11.7 | -1.47 | 1.300 | 105.3 | 0.722 | 3.313 | 323.3 | 551.5 | 0.921 | 5.704 | 1.69 | 0.259 | 63.7 | 327.6 | 0.2 | 0.215 |
| 4-3770 | 4-5210 | 0.424 | 138.7 | 11.6 | -1.41 | 1.300 | 105.7 | 0.724 | 3.322 | 322.3 | 552.0 | 0.917 | 5.728 | 1.65 | 0.261 | 62.7 | 328.0 | 0.1 | 0.218 |
| 4-3770 | 4-5230 | 0.430 | 139.9 | 11.5 | -1.35 | 1.300 | 106.2 | 0.726 | 3.332 | 321.2 | 552.5 | 0.912 | 5.753 | 1.61 | 0.264 | 61.6 | 328.6 | 0.1 | 0.221 |
| 4-3770 | 4-5250 | 0.437 | 141.0 | 11.4 | -1.30 | 1.301 | 106.7 | 0.729 | 3.342 | 320.2 | 553.0 | 0.906 | 5.778 | 1.58 | 0.266 | 60.6 | 329.1 | 0.1 | 0.224 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3770 | 4-5270 | 0.444 | 142.1 | 11.2 | -1.25 | 1.301 | 107.1 | 0.731 | 3.353 | 319.1 | 553.4 | 0.901 | 5.804 | 1.55 | 0.268 | 59.6 | 329.8 | 0.0 | 0.227 |
| 4-3770 | 4-5290 | 0.451 | 143.2 | 11.1 | -1.20 | 1.301 | 107.6 | 0.734 | 3.363 | 318.0 | 553.8 | 0.895 | 5.831 | 1.52 | 0.270 | 58.6 | 330.4 | 0.0 | 0.230 |
| 4-3770 | 4-5310 | 0.459 | 144.3 | 10.9 | -1.15 | 1.302 | 108.1 | 0.736 | 3.374 | 316.8 | 554.2 | 0.889 | 5.858 | 1.49 | 0.273 | 57.7 | 331.2 | -0.0 | 0.233 |
| 4-3770 | 4-5330 | 0.467 | 145.4 | 10.7 | -1.10 | 1.302 | 108.7 | 0.739 | 3.385 | 315.7 | 554.6 | 0.883 | 5.886 | 1.47 | 0.275 | 56.7 | 331.9 | -0.0 | 0.237 |
| 4-3770 | 4-5350 | 0.475 | 146.5 | 10.6 | -1.06 | 1.302 | 109.2 | 0.742 | 3.396 | 314.5 | 555.0 | 0.877 | 5.915 | 1.45 | 0.277 | 55.9 | 332.7 | -0.0 | 0.240 |
| 4-3770 | 4-5370 | 0.483 | 147.6 | 10.4 | -1.01 | 1.303 | 109.7 | 0.745 | 3.407 | 313.3 | 555.4 | 0.870 | 5.944 | 1.43 | 0.280 | 55.0 | 333.5 | -0.0 | 0.243 |
| 4-3780 | 4-4100 | 0.617 | 129.8 | 21.5 | 1.18 | 1.559 | 102.7 | 1.416 | -2.308 | 338.3 | 473.5 | 0.961 | --- | -1.84 | 0.899 | 161.5 | 353.8 | -1.0 | 0.847 |
| 4-3780 | 4-4120 | 0.572 | 128.1 | 22.2 | 1.26 | 1.522 | 101.5 | 1.309 | -3.126 | 339.7 | 476.4 | 0.967 | --- | -1.90 | 0.833 | 160.4 | 354.2 | -1.0 | 0.782 |
| 4-3780 | 4-4140 | 0.534 | 126.4 | 23.0 | 1.34 | 1.491 | 100.5 | 1.220 | -4.413 | 341.0 | 479.3 | 0.972 | --- | -1.96 | 0.775 | 159.3 | 354.5 | -1.0 | 0.724 |
| 4-3780 | 4-4160 | 0.501 | 124.6 | 23.9 | 1.42 | 1.465 | 99.5 | 1.145 | -6.712 | 342.2 | 482.1 | 0.976 | --- | -2.02 | 0.723 | 158.1 | 354.8 | -1.1 | 0.672 |
| 4-3780 | 4-4180 | 0.473 | 122.8 | 24.7 | 1.51 | 1.442 | 98.6 | 1.082 | 11.913 | 343.5 | 484.9 | 0.980 | --- | -2.09 | 0.676 | 156.8 | 355.1 | -1.2 | 0.626 |
| 4-3780 | 4-4200 | 0.449 | 121.0 | 25.5 | 1.60 | 1.423 | 97.8 | 1.029 | 34.393 | 344.6 | 487.7 | 0.984 | --- | -2.16 | 0.634 | 155.5 | 355.3 | -1.2 | 0.584 |
| 4-3780 | 4-4220 | 0.429 | 119.2 | 26.4 | 1.70 | 1.407 | 97.1 | 0.983 | 57.375 | 345.8 | 490.3 | 0.987 | --- | -2.24 | 0.595 | 154.1 | 355.4 | -1.3 | 0.546 |
| 4-3780 | 4-4240 | 0.412 | 117.5 | 27.2 | 1.81 | 1.392 | 96.4 | 0.943 | 17.504 | 346.8 | 492.9 | 0.989 | --- | -2.33 | 0.561 | 152.7 | 355.5 | -1.4 | 0.511 |
| 4-3780 | 4-4260 | 0.397 | 115.9 | 28.1 | 1.93 | 1.380 | 95.8 | 0.910 | 10.973 | 347.8 | 495.5 | 0.991 | --- | -2.43 | 0.529 | 151.1 | 355.5 | -1.5 | 0.480 |
| 4-3780 | 4-4280 | 0.384 | 114.3 | 29.0 | 2.06 | 1.370 | 95.3 | 0.880 | 8.305 | 348.7 | 497.9 | 0.993 | --- | -2.54 | 0.501 | 149.6 | 355.5 | -1.7 | 0.451 |
| 4-3780 | 4-4300 | 0.373 | 112.9 | 29.9 | 2.20 | 1.360 | 94.8 | 0.855 | 6.865 | 349.6 | 500.3 | 0.994 | --- | -2.66 | 0.474 | 148.0 | 355.4 | -1.8 | 0.425 |
| 4-3780 | 4-4320 | 0.364 | 111.6 | 30.8 | 2.35 | 1.352 | 94.4 | 0.833 | 5.969 | 350.3 | 502.6 | 0.996 | --- | -2.80 | 0.450 | 146.3 | 355.2 | -2.0 | 0.401 |
| 4-3780 | 4-4340 | 0.356 | 110.4 | 31.8 | 2.52 | 1.345 | 94.0 | 0.814 | 5.361 | 351.0 | 504.8 | 0.996 | --- | -2.95 | 0.428 | 144.5 | 355.0 | -2.2 | 0.379 |
| 4-3780 | 4-4360 | 0.350 | 109.3 | 32.8 | 2.71 | 1.339 | 93.7 | 0.797 | 4.924 | 351.6 | 507.0 | 0.997 | --- | -3.12 | 0.408 | 142.7 | 354.6 | -2.4 | 0.358 |
| 4-3780 | 4-4380 | 0.344 | 108.4 | 33.8 | 2.93 | 1.334 | 93.5 | 0.783 | 4.598 | 352.1 | 509.0 | 0.998 | --- | -3.31 | 0.390 | 140.8 | 354.3 | -2.7 | 0.340 |
| 4-3780 | 4-4400 | 0.340 | 107.7 | 35.0 | 3.17 | 1.329 | 93.2 | 0.770 | 4.346 | 352.6 | 511.0 | 0.998 | --- | -3.54 | 0.373 | 138.9 | 353.8 | -3.0 | 0.323 |
| 4-3780 | 4-4420 | 0.337 | 107.1 | 36.3 | 3.44 | 1.325 | 93.0 | 0.759 | 4.147 | 352.9 | 512.9 | 0.999 | --- | -3.80 | 0.358 | 136.9 | 353.2 | -3.4 | 0.307 |
| 4-3780 | 4-4440 | 0.334 | 106.6 | 37.7 | 3.76 | 1.321 | 92.9 | 0.749 | 3.988 | 353.2 | 514.7 | 0.999 | --- | -4.10 | 0.344 | 134.8 | 352.6 | -3.8 | 0.292 |
| 4-3780 | 4-4460 | 0.332 | 106.4 | 39.3 | 4.13 | 1.318 | 92.8 | 0.741 | 3.858 | 353.5 | 516.5 | 0.999 | --- | -4.45 | 0.331 | 132.7 | 351.9 | -4.3 | 0.279 |
| 4-3780 | 4-4480 | 0.332 | 106.3 | 41.1 | 4.58 | 1.315 | 92.7 | 0.734 | 3.751 | 353.6 | 518.2 | 0.999 | --- | -4.88 | 0.319 | 130.5 | 351.1 | -4.9 | 0.267 |
| 4-3780 | 4-4500 | 0.332 | 106.4 | 43.3 | 5.12 | 1.313 | 92.6 | 0.727 | 3.662 | 353.7 | 519.8 | 0.999 | --- | -5.40 | 0.308 | 128.3 | 350.3 | -5.6 | 0.257 |
| 4-3780 | 4-4520 | 0.335 | 106.8 | 45.9 | 5.78 | 1.311 | 92.6 | 0.721 | 3.587 | 353.8 | 521.3 | 1.000 | --- | -6.05 | 0.299 | 126.1 | 349.3 | -6.5 | 0.247 |
| 4-3780 | 4-4540 | 0.339 | 107.5 | 49.1 | 6.62 | 1.309 | 92.6 | 0.716 | 3.525 | 353.8 | 522.8 | 1.000 | --- | -6.87 | 0.290 | 123.8 | 348.3 | -7.6 | 0.239 |
| 4-3780 | 4-4560 | 0.347 | 108.7 | 53.1 | 7.73 | 1.307 | 92.6 | 0.712 | 3.472 | 353.7 | 524.3 | 0.999 | --- | -7.96 | 0.282 | 121.5 | 347.3 | -9.0 | 0.231 |
| 4-3780 | 4-4580 | 0.360 | 110.7 | 58.2 | 9.26 | 1.306 | 92.7 | 0.708 | 3.427 | 353.6 | 525.7 | 0.999 | --- | -9.47 | 0.275 | 119.2 | 346.1 | -10.8 | 0.226 |
| 4-3780 | 4-4600 | 0.384 | 114.5 | 64.8 | 11.49 | 1.304 | 92.7 | 0.705 | 3.389 | 353.4 | 527.0 | 0.999 | --- | -11.69 | 0.269 | 116.9 | 344.9 | -13.4 | 0.223 |
| 4-3780 | 4-4620 | 0.428 | 124.3 | 73.7 | 15.04 | 1.303 | 92.8 | 0.702 | 3.357 | 353.2 | 528.3 | 0.999 | --- | -15.22 | 0.263 | 114.6 | 343.4 | -17.2 | 0.223 |
| 4-3780 | 4-4640 | 0.525 | 179.8 | 82.8 | 21.54 | 1.302 | 92.9 | 0.700 | 3.330 | 353.0 | 529.5 | 0.999 | --- | -21.70 | 0.258 | 112.2 | 341.6 | -23.2 | 0.234 |
| 4-3780 | 4-4660 | 0.774 | 258.6 | 69.5 | 36.39 | 1.301 | 92.9 | 0.698 | 3.307 | 352.9 | 530.7 | 0.999 | --- | -36.53 | 0.254 | 109.9 | 338.2 | -31.8 | 0.280 |
| 4-3780 | 4-4680 | 1.485 | 270.7 | 35.8 | 79.32 | 1.301 | 92.8 | 0.696 | 3.288 | 353.2 | 531.9 | 0.999 | --- | -79.44 | 0.250 | 107.6 | 330.6 | -33.2 | 0.448 |
| 4-3780 | 4-4700 | 0.937 | 101.8 | -72.2 | -45.78 | 1.300 | 93.6 | 0.695 | 3.272 | 351.1 | 532.9 | 0.997 | --- | 45.67 | 0.247 | 105.4 | 331.8 | 32.0 | 0.310 |
| 4-3780 | 4-4720 | 0.583 | 102.2 | -48.8 | -25.15 | 1.300 | 93.7 | 0.694 | 3.259 | 350.9 | 534.0 | 0.997 | --- | 25.06 | 0.245 | 103.2 | 334.5 | 24.5 | 0.232 |
| 4-3780 | 4-4740 | 0.454 | 103.8 | -33.8 | -16.94 | 1.299 | 93.9 | 0.693 | 3.248 | 350.6 | 535.0 | 0.996 | --- | 16.86 | 0.243 | 101.0 | 334.7 | 18.2 | 0.207 |
| 4-3780 | 4-4760 | 0.397 | 105.3 | -23.5 | -12.71 | 1.299 | 94.1 | 0.693 | 3.240 | 350.1 | 536.0 | 0.996 | --- | 12.65 | 0.241 | 98.8 | 334.1 | 14.1 | 0.196 |
| 4-3780 | 4-4780 | 0.368 | 106.8 | -16.1 | -10.15 | 1.299 | 94.3 | 0.692 | 3.233 | 349.6 | 537.0 | 0.995 | --- | 10.11 | 0.240 | 96.7 | 333.4 | 11.3 | 0.190 |
| 4-3780 | 4-4800 | 0.351 | 108.1 | -10.6 | -8.44 | 1.299 | 94.5 | 0.692 | 3.229 | 349.0 | 537.9 | 0.995 | --- | 8.41 | 0.239 | 94.6 | 332.5 | 9.3 | 0.187 |
| 4-3780 | 4-4820 | 0.341 | 109.5 | -6.5 | -7.21 | 1.299 | 94.7 | 0.692 | 3.225 | 348.4 | 538.8 | 0.994 | --- | 7.21 | 0.238 | 92.6 | 331.7 | 7.9 | 0.185 |
| 4-3780 | 4-4840 | 0.335 | 110.8 | -3.3 | -6.30 | 1.298 | 95.0 | 0.692 | 3.224 | 347.8 | 539.7 | 0.993 | --- | 6.31 | 0.238 | 90.6 | 330.8 | 6.7 | 0.183 |
| 4-3780 | 4-4860 | 0.331 | 112.2 | -0.7 | -5.58 | 1.298 | 95.3 | 0.692 | 3.223 | 347.2 | 540.6 | 0.992 | 5.455 | 5.61 | 0.238 | 88.7 | 330.1 | 5.8 | 0.183 |
| 4-3780 | 4-4880 | 0.329 | 113.5 | 1.4 | -5.01 | 1.298 | 95.5 | 0.693 | 3.224 | 346.5 | 541.4 | 0.991 | 5.457 | 5.05 | 0.238 | 86.9 | 329.4 | 5.0 | 0.183 |
| 4-3780 | 4-4900 | 0.328 | 114.9 | 3.1 | -4.54 | 1.299 | 95.8 | 0.693 | 3.225 | 345.8 | 542.2 | 0.989 | 5.461 | 4.60 | 0.238 | 85.1 | 328.7 | 4.4 | 0.183 |
| 4-3780 | 4-4920 | 0.328 | 116.3 | 4.5 | -4.14 | 1.299 | 96.1 | 0.694 | 3.228 | 345.0 | 543.0 | 0.988 | 5.468 | 4.22 | 0.239 | 83.3 | 328.2 | 3.8 | 0.184 |
| 4-3780 | 4-4940 | 0.329 | 117.7 | 5.6 | -3.81 | 1.299 | 96.4 | 0.695 | 3.231 | 344.3 | 543.7 | 0.987 | 5.476 | 3.91 | 0.240 | 81.7 | 327.7 | 3.4 | 0.185 |
| 4-3780 | 4-4960 | 0.330 | 119.1 | 6.6 | -3.52 | 1.299 | 96.8 | 0.696 | 3.236 | 343.5 | 544.4 | 0.985 | 5.486 | 3.64 | 0.241 | 80.0 | 327.3 | 3.0 | 0.186 |
| 4-3780 | 4-4980 | 0.331 | 120.5 | 7.4 | -3.27 | 1.299 | 97.1 | 0.697 | 3.240 | 342.7 | 545.1 | 0.983 | 5.498 | 3.40 | 0.242 | 78.5 | 327.0 | 2.6 | 0.187 |
| 4-3780 | 4-5000 | 0.333 | 121.9 | 8.1 | -3.05 | 1.299 | 97.4 | 0.698 | 3.246 | 341.9 | 545.8 | 0.982 | 5.510 | 3.20 | 0.243 | 77.0 | 326.8 | 2.3 | 0.189 |
| 4-3780 | 4-5020 | 0.335 | 123.3 | 8.6 | -2.85 | 1.299 | 97.8 | 0.699 | 3.252 | 341.0 | 546.5 | 0.980 | 5.525 | 3.02 | 0.245 | 75.5 | 326.6 | 2.1 | 0.191 |
| 4-3780 | 4-5040 | 0.338 | 124.8 | 9.1 | -2.68 | 1.300 | 98.2 | 0.700 | 3.259 | 340.1 | 547.1 | 0.977 | 5.540 | 2.86 | 0.246 | 74.1 | 326.5 | 1.8 | 0.192 |
| 4-3780 | 4-5060 | 0.341 | 126.2 | 9.5 | -2.52 | 1.300 | 98.5 | 0.701 | 3.266 | 339.3 | 547.8 | 0.975 | 5.556 | 2.72 | 0.248 | 72.7 | 326.5 | 1.6 | 0.194 |
| 4-3780 | 4-5080 | 0.344 | 127.6 | 9.8 | -2.37 | 1.300 | 98.9 | 0.703 | 3.273 | 338.3 | 548.4 | 0.973 | 5.574 | 2.60 | 0.250 | 71.4 | 326.6 | 1.4 | 0.197 |
| 4-3780 | 4-5100 | 0.348 | 129.1 | 10.0 | -2.24 | 1.301 | 99.3 | 0.704 | 3.281 | 337.4 | 549.0 | 0.970 | 5.592 | 2.48 | 0.252 | 70.1 | 326.7 | 1.3 | 0.199 |
| 4-3780 | 4-5120 | 0.352 | 130.5 | 10.2 | -2.12 | 1.301 | 99.7 | 0.706 | 3.290 | 336.5 | 549.6 | 0.968 | 5.612 | 2.38 | 0.254 | 68.9 | 326.9 | 1.1 | 0.201 |
| 4-3780 | 4-5140 | 0.356 | 131.9 | 10.4 | -2.01 | 1.301 | 100.1 | 0.708 | 3.298 | 335.5 | 550.1 | 0.965 | 5.632 | 2.29 | 0.256 | 67.7 | 327.1 | 1.0 | 0.204 |
| 4-3780 | 4-5160 | 0.360 | 133.3 | 10.4 | -1.91 | 1.301 | 100.5 | 0.709 | 3.307 | 334.5 | 550.7 | 0.962 | 5.653 | 2.20 | 0.258 | 66.6 | 327.5 | 0.9 | 0.206 |
| 4-3780 | 4-5180 | 0.365 | 134.8 | 10.5 | -1.81 | 1.302 | 101.0 | 0.711 | 3.317 | 333.5 | 551.2 | 0.958 | 5.675 | 2.13 | 0.260 | 65.5 | 327.8 | 0.8 | 0.209 |
| 4-3780 | 4-5200 | 0.370 | 136.2 | 10.5 | -1.72 | 1.302 | 101.4 | 0.713 | 3.326 | 332.5 | 551.7 | 0.955 | 5.698 | 2.06 | 0.262 | 64.4 | 328.3 | 0.7 | 0.211 |
| 4-3780 | 4-5220 | 0.375 | 137.5 | 10.5 | -1.63 | 1.302 | 101.8 | 0.715 | 3.336 | 331.5 | 552.2 | 0.951 | 5.721 | 1.99 | 0.264 | 63.4 | 328.7 | 0.6 | 0.214 |
| 4-3780 | 4-5240 | 0.380 | 138.9 | 10.4 | -1.56 | 1.303 | 102.3 | 0.717 | 3.346 | 330.5 | 552.7 | 0.948 | 5.745 | 1.93 | 0.266 | 62.4 | 329.3 | 0.5 | 0.217 |
| 4-3780 | 4-5260 | 0.386 | 140.3 | 10.4 | -1.48 | 1.303 | 102.7 | 0.719 | 3.356 | 329.4 | 553.2 | 0.944 | 5.769 | 1.88 | 0.268 | 61.4 | 329.8 | 0.5 | 0.220 |
| 4-3780 | 4-5280 | 0.392 | 141.6 | 10.3 | -1.41 | 1.304 | 103.2 | 0.721 | 3.367 | 328.3 | 553.6 | 0.939 | 5.795 | 1.83 | 0.271 | 60.4 | 330.5 | 0.4 | 0.222 |
| 4-3780 | 4-5300 | 0.398 | 143.0 | 10.1 | -1.34 | 1.304 | 103.7 | 0.723 | 3.378 | 327.2 | 554.1 | 0.935 | 5.820 | 1.78 | 0.273 | 59.5 | 331.1 | 0.4 | 0.225 |
| 4-3780 | 4-5320 | 0.404 | 144.3 | 10.0 | -1.28 | 1.304 | 104.2 | 0.725 | 3.388 | 326.1 | 554.5 | 0.930 | 5.847 | 1.74 | 0.275 | 58.6 | 331.8 | 0.3 | 0.228 |
| 4-3780 | 4-5340 | 0.411 | 145.6 | 9.8 | -1.22 | 1.305 | 104.7 | 0.728 | 3.399 | 325.0 | 554.9 | 0.926 | 5.873 | 1.70 | 0.278 | 57.7 | 332.6 | 0.3 | 0.231 |
| 4-3780 | 4-5360 | 0.418 | 146.9 | 9.6 | -1.16 | 1.305 | 105.2 | 0.730 | 3.411 | 323.8 | 555.3 | 0.920 | 5.901 | 1.66 | 0.280 | 56.9 | 333.4 | 0.3 | 0.234 |
| 4-3780 | 4-5380 | 0.425 | 148.1 | 9.4 | -1.10 | 1.305 | 105.7 | 0.733 | 3.422 | 322.7 | 555.7 | 0.915 | 5.929 | 1.63 | 0.282 | 56.1 | 334.2 | 0.3 | 0.237 |
| 4-3790 | 4-4090 | 0.616 | 128.3 | 21.4 | 1.00 | 1.594 | 98.5 | 1.528 | -1.857 | 345.9 | 470.5 | 0.981 | --- | -1.58 | 0.955 | 162.0 | 354.2 | -0.8 | 0.901 |
| 4-3790 | 4-4110 | 0.568 | 126.2 | 22.2 | 1.05 | 1.551 | 97.4 | 1.399 | -2.470 | 347.4 | 473.5 | 0.985 | --- | -1.61 | 0.883 | 161.0 | 354.6 | -0.8 | 0.829 |
| 4-3790 | 4-4130 | 0.528 | 124.0 | 23.0 | 1.11 | 1.516 | 96.3 | 1.292 | -3.382 | 348.8 | 476.5 | 0.988 | --- | -1.65 | 0.818 | 159.9 | 354.9 | -0.9 | 0.765 |
| 4-3790 | 4-4150 | 0.494 | 121.7 | 23.8 | 1.16 | 1.486 | 95.4 | 1.204 | -4.861 | 350.2 | 479.5 | 0.991 | --- | -1.68 | 0.761 | 158.7 | 355.2 | -0.9 | 0.709 |
| 4-3790 | 4-4170 | 0.466 | 119.3 | 24.6 | 1.23 | 1.460 | 94.5 | 1.130 | -7.639 | 351.6 | 482.4 | 0.993 | --- | -1.72 | 0.710 | 157.5 | 355.4 | -1.0 | 0.658 |
| 4-3790 | 4-4190 | 0.442 | 117.0 | 25.4 | 1.29 | 1.439 | 93.7 | 1.068 | 14.660 | 352.9 | 485.3 | 0.995 | --- | -1.76 | 0.664 | 156.3 | 355.6 | -1.0 | 0.613 |
| 4-3790 | 4-4210 | 0.422 | 114.8 | 26.1 | 1.36 | 1.420 | 93.0 | 1.015 | 65.242 | 354.1 | 488.1 | 0.996 | --- | -1.81 | 0.623 | 154.9 | 355.8 | -1.1 | 0.572 |
| 4-3790 | 4-4230 | 0.406 | 112.6 | 26.8 | 1.43 | 1.404 | 92.3 | 0.971 | 33.897 | 355.3 | 490.8 | 0.997 | --- | -1.86 | 0.585 | 153.5 | 355.9 | -1.1 | 0.535 |
| 4-3790 | 4-4250 | 0.391 | 110.4 | 27.5 | 1.50 | 1.391 | 91.7 | 0.932 | 14.758 | 356.4 | 493.5 | 0.998 | --- | -1.91 | 0.551 | 152.1 | 355.9 | -1.2 | 0.501 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3790 | 4-4270 | 0.379 | 108.5 | 28.1 | 1.58 | 1.379 | 91.2 | 0.900 | 9.948 | 357.5 | 496.1 | 0.999 | --- | -1.97 | 0.520 | 150.6 | 355.9 | -1.3 | 0.470 |
| 4-3790 | 4-4290 | 0.369 | 106.6 | 28.8 | 1.66 | 1.369 | 90.7 | 0.871 | 7.769 | 358.4 | 498.6 | 0.999 | --- | -2.03 | 0.492 | 149.0 | 355.8 | -1.4 | 0.442 |
| 4-3790 | 4-4310 | 0.361 | 104.9 | 29.4 | 1.75 | 1.360 | 90.3 | 0.847 | 6.534 | 359.3 | 501.0 | 0.999 | --- | -2.10 | 0.466 | 147.3 | 355.6 | -1.5 | 0.416 |
| 4-3790 | 4-4330 | 0.354 | 103.3 | 30.0 | 1.84 | 1.352 | 90.0 | 0.826 | 5.744 | 0.1 | 143.3 | --- | --- | -2.17 | 0.443 | 145.6 | 355.4 | -1.6 | 0.393 |
| 4-3790 | 4-4350 | 0.348 | 101.9 | 30.6 | 1.94 | 1.345 | 89.7 | 0.808 | 5.198 | 0.8 | 145.5 | --- | --- | -2.26 | 0.421 | 143.8 | 355.1 | -1.8 | 0.371 |
| 4-3790 | 4-4370 | 0.342 | 100.7 | 31.2 | 2.05 | 1.339 | 89.4 | 0.792 | 4.801 | 1.4 | 147.7 | --- | --- | -2.35 | 0.402 | 142.0 | 354.8 | -1.9 | 0.351 |
| 4-3790 | 4-4390 | 0.338 | 99.6 | 31.8 | 2.17 | 1.334 | 89.2 | 0.778 | 4.502 | 1.9 | 149.7 | --- | --- | -2.45 | 0.384 | 140.1 | 354.3 | -2.1 | 0.333 |
| 4-3790 | 4-4410 | 0.334 | 98.7 | 32.4 | 2.30 | 1.330 | 89.0 | 0.766 | 4.269 | 2.3 | 151.7 | --- | --- | -2.56 | 0.367 | 138.1 | 353.8 | -2.3 | 0.316 |
| 4-3790 | 4-4430 | 0.331 | 98.0 | 33.1 | 2.44 | 1.326 | 88.8 | 0.756 | 4.085 | 2.7 | 153.6 | --- | --- | -2.68 | 0.352 | 136.1 | 353.2 | -2.5 | 0.301 |
| 4-3790 | 4-4450 | 0.328 | 97.4 | 33.8 | 2.59 | 1.322 | 88.7 | 0.746 | 3.937 | 3.0 | 155.4 | --- | --- | -2.81 | 0.339 | 134.0 | 352.6 | -2.8 | 0.287 |
| 4-3790 | 4-4470 | 0.326 | 97.0 | 34.5 | 2.76 | 1.319 | 88.6 | 0.738 | 3.815 | 3.2 | 157.1 | --- | --- | -2.96 | 0.326 | 131.9 | 351.8 | -3.1 | 0.274 |
| 4-3790 | 4-4490 | 0.324 | 96.7 | 35.4 | 2.95 | 1.316 | 88.6 | 0.731 | 3.715 | 3.3 | 158.8 | --- | --- | -3.14 | 0.315 | 129.7 | 351.0 | -3.4 | 0.262 |
| 4-3790 | 4-4510 | 0.323 | 96.5 | 36.3 | 3.17 | 1.314 | 88.6 | 0.725 | 3.632 | 3.4 | 160.4 | --- | --- | -3.33 | 0.304 | 127.5 | 350.1 | -3.7 | 0.252 |
| 4-3790 | 4-4530 | 0.322 | 96.5 | 37.3 | 3.41 | 1.312 | 88.6 | 0.720 | 3.562 | 3.4 | 161.9 | --- | --- | -3.55 | 0.295 | 125.3 | 349.2 | -4.1 | 0.242 |
| 4-3790 | 4-4550 | 0.321 | 96.6 | 38.5 | 3.68 | 1.310 | 88.6 | 0.715 | 3.503 | 3.4 | 163.4 | --- | --- | -3.81 | 0.287 | 123.0 | 348.2 | -4.6 | 0.233 |
| 4-3790 | 4-4570 | 0.321 | 96.9 | 39.8 | 4.00 | 1.309 | 88.6 | 0.711 | 3.454 | 3.3 | 164.8 | --- | --- | -4.11 | 0.279 | 120.7 | 347.1 | -5.1 | 0.226 |
| 4-3790 | 4-4590 | 0.322 | 97.3 | 41.4 | 4.38 | 1.307 | 88.7 | 0.707 | 3.412 | 3.1 | 166.2 | --- | --- | -4.47 | 0.273 | 118.4 | 346.0 | -5.7 | 0.219 |
| 4-3790 | 4-4610 | 0.323 | 97.8 | 43.1 | 4.82 | 1.306 | 88.8 | 0.704 | 3.376 | 2.9 | 167.5 | --- | --- | -4.89 | 0.267 | 116.0 | 344.8 | -6.3 | 0.213 |
| 4-3790 | 4-4630 | 0.325 | 98.5 | 45.3 | 5.36 | 1.305 | 88.9 | 0.702 | 3.346 | 2.7 | 168.7 | --- | --- | -5.41 | 0.261 | 113.7 | 343.6 | -7.1 | 0.207 |
| 4-3790 | 4-4650 | 0.328 | 99.4 | 47.8 | 6.02 | 1.304 | 89.0 | 0.699 | 3.321 | 2.4 | 170.0 | --- | --- | -6.06 | 0.257 | 111.4 | 342.4 | -8.1 | 0.203 |
| 4-3790 | 4-4670 | 0.334 | 100.5 | 51.0 | 6.86 | 1.303 | 89.2 | 0.697 | 3.300 | 2.0 | 171.1 | --- | --- | -6.89 | 0.253 | 109.1 | 341.2 | -9.3 | 0.199 |
| 4-3790 | 4-4690 | 0.343 | 102.0 | 54.9 | 7.97 | 1.303 | 89.3 | 0.696 | 3.282 | 1.7 | 172.2 | --- | --- | -7.98 | 0.249 | 106.8 | 340.0 | -10.7 | 0.197 |
| 4-3790 | 4-4710 | 0.357 | 104.0 | 60.0 | 9.49 | 1.302 | 89.5 | 0.694 | 3.268 | 1.3 | 173.3 | --- | --- | -9.48 | 0.247 | 104.6 | 338.9 | -12.7 | 0.196 |
| 4-3790 | 4-4730 | 0.381 | 107.3 | 66.7 | 11.71 | 1.302 | 89.7 | 0.693 | 3.256 | 0.8 | 174.4 | --- | --- | -11.68 | 0.244 | 102.3 | 337.7 | -15.4 | 0.197 |
| 4-3790 | 4-4750 | 0.427 | 114.9 | 75.8 | 15.24 | 1.301 | 89.9 | 0.692 | 3.246 | 0.4 | 175.4 | --- | --- | -15.19 | 0.242 | 100.2 | 336.6 | -19.3 | 0.202 |
| 4-3790 | 4-4770 | 0.524 | 183.4 | 86.0 | 21.66 | 1.301 | 90.0 | 0.692 | 3.239 | 359.9 | 536.4 | 0.999 | --- | -21.60 | 0.241 | 98.0 | 335.5 | -25.1 | 0.217 |
| 4-3790 | 4-4790 | 0.771 | 270.0 | 70.3 | 36.27 | 1.301 | 90.2 | 0.691 | 3.234 | 359.5 | 537.3 | 0.999 | --- | -36.19 | 0.240 | 95.9 | 334.2 | -33.2 | 0.267 |
| 4-3790 | 4-4810 | 1.473 | 279.6 | 37.0 | 78.39 | 1.301 | 90.2 | 0.691 | 3.230 | 359.6 | 538.3 | 0.999 | --- | -78.30 | 0.239 | 93.9 | 332.0 | -33.7 | 0.437 |
| 4-3790 | 4-4830 | 0.945 | 86.5 | -72.6 | -46.27 | 1.301 | 91.1 | 0.691 | 3.227 | 357.3 | 539.1 | 0.999 | --- | 46.39 | 0.238 | 92.0 | 329.6 | 32.7 | 0.307 |
| 4-3790 | 4-4850 | 0.581 | 98.4 | -49.4 | -25.20 | 1.301 | 91.3 | 0.691 | 3.226 | 356.9 | 540.0 | 0.999 | --- | 25.34 | 0.238 | 90.1 | 330.0 | 25.2 | 0.227 |
| 4-3790 | 4-4870 | 0.449 | 102.0 | -34.4 | -16.85 | 1.301 | 91.5 | 0.691 | 3.227 | 356.3 | 540.8 | 0.998 | 5.455 | 17.00 | 0.238 | 88.2 | 329.7 | 18.6 | 0.202 |
| 4-3790 | 4-4890 | 0.391 | 104.5 | -23.9 | -12.57 | 1.301 | 91.8 | 0.691 | 3.228 | 355.7 | 541.6 | 0.998 | 5.458 | 12.73 | 0.239 | 86.4 | 329.2 | 14.2 | 0.193 |
| 4-3790 | 4-4910 | 0.360 | 106.6 | -16.4 | -9.98 | 1.301 | 92.0 | 0.691 | 3.230 | 355.0 | 542.4 | 0.998 | 5.463 | 10.16 | 0.239 | 84.7 | 328.8 | 11.3 | 0.189 |
| 4-3790 | 4-4930 | 0.343 | 108.4 | -10.9 | -8.25 | 1.301 | 92.3 | 0.692 | 3.233 | 354.3 | 543.2 | 0.997 | 5.470 | 8.45 | 0.240 | 83.0 | 328.3 | 9.2 | 0.187 |
| 4-3790 | 4-4950 | 0.333 | 110.2 | -6.7 | -7.02 | 1.301 | 92.7 | 0.692 | 3.237 | 353.5 | 543.9 | 0.997 | 5.478 | 7.24 | 0.241 | 81.3 | 327.9 | 7.6 | 0.187 |
| 4-3790 | 4-4970 | 0.326 | 112.0 | -3.4 | -6.09 | 1.301 | 93.0 | 0.693 | 3.242 | 352.7 | 544.6 | 0.996 | 5.488 | 6.33 | 0.242 | 79.8 | 327.6 | 6.4 | 0.187 |
| 4-3790 | 4-4990 | 0.322 | 113.7 | -0.8 | -5.37 | 1.302 | 93.3 | 0.694 | 3.247 | 351.9 | 545.3 | 0.995 | 6.500 | 5.63 | 0.243 | 78.3 | 327.3 | 5.5 | 0.188 |
| 4-3790 | 4-5010 | 0.320 | 115.4 | 1.2 | -4.80 | 1.302 | 93.6 | 0.694 | 3.253 | 351.1 | 546.0 | 0.994 | 5.512 | 5.07 | 0.245 | 76.8 | 327.1 | 4.7 | 0.189 |
| 4-3790 | 4-5030 | 0.319 | 117.1 | 2.9 | -4.32 | 1.302 | 94.0 | 0.695 | 3.260 | 350.2 | 546.7 | 0.993 | 5.526 | 4.61 | 0.246 | 75.4 | 327.0 | 4.1 | 0.190 |
| 4-3790 | 4-5050 | 0.319 | 118.8 | 4.3 | -3.93 | 1.302 | 94.4 | 0.696 | 3.267 | 349.4 | 547.3 | 0.992 | 5.542 | 4.23 | 0.248 | 74.0 | 327.0 | 3.6 | 0.192 |
| 4-3790 | 4-5070 | 0.319 | 120.5 | 5.4 | -3.59 | 1.302 | 94.7 | 0.697 | 3.274 | 348.5 | 547.9 | 0.991 | 5.558 | 3.91 | 0.250 | 72.7 | 327.0 | 3.2 | 0.194 |
| 4-3790 | 4-5090 | 0.320 | 122.2 | 6.3 | -3.30 | 1.303 | 95.1 | 0.699 | 3.282 | 347.6 | 548.5 | 0.990 | 5.575 | 3.64 | 0.252 | 71.4 | 327.1 | 2.8 | 0.196 |
| 4-3790 | 4-5110 | 0.321 | 123.9 | 7.1 | -3.05 | 1.303 | 95.5 | 0.700 | 3.291 | 346.7 | 549.1 | 0.988 | 5.593 | 3.41 | 0.254 | 70.2 | 327.2 | 2.5 | 0.198 |
| 4-3790 | 4-5130 | 0.323 | 125.6 | 7.7 | -2.83 | 1.303 | 95.9 | 0.701 | 3.299 | 345.7 | 549.7 | 0.986 | 5.612 | 3.20 | 0.255 | 69.0 | 327.4 | 2.2 | 0.200 |
| 4-3790 | 4-5150 | 0.325 | 127.3 | 8.2 | -2.63 | 1.304 | 96.3 | 0.702 | 3.308 | 344.8 | 550.3 | 0.985 | 5.632 | 3.02 | 0.258 | 67.9 | 327.7 | 1.9 | 0.202 |
| 4-3790 | 4-5170 | 0.328 | 129.0 | 8.6 | -2.45 | 1.304 | 96.7 | 0.704 | 3.318 | 343.8 | 550.8 | 0.983 | 5.653 | 2.86 | 0.260 | 66.8 | 328.0 | 1.7 | 0.204 |
| 4-3790 | 4-5190 | 0.330 | 130.7 | 8.9 | -2.29 | 1.304 | 97.1 | 0.705 | 3.327 | 342.8 | 551.4 | 0.981 | 5.674 | 2.72 | 0.262 | 65.7 | 328.4 | 1.5 | 0.207 |
| 4-3790 | 4-5210 | 0.334 | 132.4 | 9.1 | -2.15 | 1.305 | 97.5 | 0.707 | 3.337 | 341.8 | 551.9 | 0.978 | 5.696 | 2.60 | 0.264 | 64.7 | 328.9 | 1.4 | 0.209 |
| 4-3790 | 4-5230 | 0.337 | 134.1 | 9.2 | -2.01 | 1.305 | 98.0 | 0.708 | 3.347 | 340.8 | 552.4 | 0.976 | 5.718 | 2.48 | 0.266 | 63.7 | 329.3 | 1.2 | 0.212 |
| 4-3790 | 4-5250 | 0.341 | 135.7 | 9.3 | -1.89 | 1.305 | 98.4 | 0.710 | 3.358 | 339.7 | 552.9 | 0.973 | 5.742 | 2.38 | 0.268 | 62.8 | 329.9 | 1.1 | 0.214 |
| 4-3790 | 4-5270 | 0.345 | 137.4 | 9.4 | -1.78 | 1.306 | 98.9 | 0.712 | 3.368 | 338.7 | 553.4 | 0.971 | 5.765 | 2.29 | 0.271 | 61.8 | 330.5 | 1.0 | 0.217 |
| 4-3790 | 4-5290 | 0.349 | 139.0 | 9.4 | -1.68 | 1.306 | 99.3 | 0.714 | 3.379 | 337.6 | 553.8 | 0.968 | 5.790 | 2.20 | 0.273 | 60.9 | 331.1 | 0.9 | 0.219 |
| 4-3790 | 4-5310 | 0.354 | 140.6 | 9.3 | -1.58 | 1.306 | 99.8 | 0.715 | 3.390 | 336.5 | 554.3 | 0.965 | 5.815 | 2.12 | 0.275 | 60.1 | 331.8 | 0.8 | 0.222 |
| 4-3790 | 4-5330 | 0.359 | 142.2 | 9.2 | -1.49 | 1.307 | 100.2 | 0.717 | 3.401 | 335.4 | 554.7 | 0.961 | 5.840 | 2.05 | 0.277 | 59.2 | 332.5 | 0.8 | 0.225 |
| 4-3790 | 4-5350 | 0.364 | 143.8 | 9.1 | -1.40 | 1.307 | 100.7 | 0.719 | 3.412 | 334.3 | 555.2 | 0.958 | 5.866 | 1.99 | 0.280 | 58.4 | 333.2 | 0.7 | 0.228 |
| 4-3790 | 4-5370 | 0.369 | 145.3 | 9.0 | -1.32 | 1.308 | 101.2 | 0.721 | 3.423 | 333.2 | 555.6 | 0.954 | 5.893 | 1.93 | 0.282 | 57.6 | 334.0 | 0.7 | 0.230 |
| 4-3790 | 4-5390 | 0.375 | 146.9 | 8.8 | -1.25 | 1.308 | 101.7 | 0.723 | 3.435 | 332.0 | 556.0 | 0.950 | 5.920 | 1.87 | 0.284 | 56.8 | 334.8 | 0.6 | 0.233 |
| 4-3800 | 4-4080 | 0.632 | 125.4 | 21.8 | 0.88 | 1.633 | 93.8 | 1.653 | -1.520 | 354.0 | 467.8 | 0.993 | --- | -1.38 | 1.016 | 162.6 | 354.5 | -0.7 | 0.960 |
| 4-3800 | 4-4100 | 0.581 | 122.9 | 22.6 | 0.92 | 1.583 | 92.7 | 1.497 | -2.002 | 355.5 | 471.0 | 0.994 | --- | -1.40 | 0.935 | 161.6 | 354.8 | -0.7 | 0.880 |
| 4-3800 | 4-4120 | 0.539 | 120.1 | 23.4 | 0.97 | 1.543 | 91.7 | 1.370 | -2.690 | 357.1 | 474.1 | 0.996 | --- | -1.42 | 0.863 | 160.6 | 355.1 | -0.8 | 0.810 |
| 4-3800 | 4-4140 | 0.505 | 117.4 | 24.1 | 1.01 | 1.508 | 90.8 | 1.266 | -3.742 | 358.6 | 477.2 | 0.996 | --- | -1.44 | 0.800 | 159.5 | 355.4 | -0.8 | 0.747 |
| 4-3800 | 4-4160 | 0.477 | 114.6 | 24.9 | 1.06 | 1.479 | 89.9 | 1.180 | -5.521 | 0.1 | 120.3 | --- | --- | -1.46 | 0.744 | 158.3 | 355.6 | -0.8 | 0.692 |
| 4-3800 | 4-4180 | 0.453 | 111.8 | 25.5 | 1.10 | 1.455 | 89.2 | 1.109 | -9.135 | 1.6 | 123.3 | --- | --- | -1.49 | 0.694 | 157.1 | 355.8 | -0.9 | 0.643 |
| 4-3800 | 4-4200 | 0.434 | 109.1 | 26.1 | 1.15 | 1.434 | 88.5 | 1.049 | 20.236 | 3.0 | 126.2 | --- | --- | -1.51 | 0.649 | 155.8 | 355.9 | -0.9 | 0.599 |
| 4-3800 | 4-4220 | 0.418 | 106.6 | 26.7 | 1.20 | 1.417 | 87.9 | 0.999 | 66.523 | 4.3 | 129.1 | --- | --- | -1.54 | 0.609 | 154.5 | 356.0 | -0.9 | 0.559 |
| 4-3800 | 4-4240 | 0.405 | 104.1 | 27.2 | 1.25 | 1.401 | 87.3 | 0.956 | 22.670 | 5.5 | 131.9 | --- | --- | -1.57 | 0.572 | 153.1 | 356.1 | -1.0 | 0.522 |
| 4-3800 | 4-4260 | 0.395 | 101.9 | 27.6 | 1.31 | 1.388 | 86.8 | 0.920 | 12.388 | 6.7 | 134.6 | --- | --- | -1.60 | 0.539 | 151.6 | 356.0 | -1.1 | 0.489 |
| 4-3800 | 4-4280 | 0.386 | 99.8 | 28.0 | 1.36 | 1.377 | 86.4 | 0.889 | 8.922 | 7.7 | 137.2 | --- | --- | -1.64 | 0.509 | 150.1 | 355.9 | -1.1 | 0.460 |
| 4-3800 | 4-4300 | 0.378 | 97.9 | 28.4 | 1.42 | 1.367 | 86.0 | 0.862 | 7.192 | 8.7 | 139.7 | --- | --- | -1.68 | 0.481 | 148.5 | 355.8 | -1.2 | 0.432 |
| 4-3800 | 4-4320 | 0.372 | 96.2 | 28.7 | 1.48 | 1.358 | 85.6 | 0.839 | 6.162 | 9.6 | 142.2 | --- | --- | -1.72 | 0.456 | 146.8 | 355.6 | -1.3 | 0.407 |
| 4-3800 | 4-4340 | 0.367 | 94.7 | 29.1 | 1.55 | 1.351 | 85.3 | 0.820 | 5.482 | 10.4 | 144.5 | --- | --- | -1.76 | 0.433 | 145.0 | 355.3 | -1.4 | 0.384 |
| 4-3800 | 4-4360 | 0.362 | 93.3 | 29.4 | 1.62 | 1.345 | 85.1 | 0.803 | 5.004 | 11.0 | 146.7 | --- | --- | -1.81 | 0.412 | 143.2 | 354.9 | -1.5 | 0.363 |
| 4-3800 | 4-4380 | 0.358 | 92.2 | 29.7 | 1.69 | 1.339 | 84.9 | 0.788 | 4.651 | 11.6 | 148.8 | --- | --- | -1.86 | 0.393 | 141.4 | 354.5 | -1.6 | 0.344 |
| 4-3800 | 4-4400 | 0.355 | 91.2 | 30.0 | 1.76 | 1.334 | 84.7 | 0.775 | 4.382 | 12.1 | 150.8 | --- | --- | -1.92 | 0.376 | 139.4 | 354.0 | -1.8 | 0.326 |
| 4-3800 | 4-4420 | 0.352 | 90.4 | 30.4 | 1.84 | 1.330 | 84.6 | 0.764 | 4.172 | 12.6 | 152.8 | --- | --- | -1.98 | 0.360 | 137.4 | 353.4 | -1.9 | 0.310 |
| 4-3800 | 4-4440 | 0.350 | 89.7 | 30.7 | 1.93 | 1.326 | 84.5 | 0.754 | 4.004 | 12.9 | 154.7 | --- | --- | -2.04 | 0.345 | 135.4 | 352.8 | -2.1 | 0.295 |
| 4-3800 | 4-4460 | 0.347 | 89.2 | 31.1 | 2.02 | 1.323 | 84.4 | 0.745 | 3.869 | 13.1 | 156.4 | --- | --- | -2.12 | 0.332 | 133.3 | 352.1 | -2.2 | 0.282 |
| 4-3800 | 4-4480 | 0.345 | 88.8 | 31.5 | 2.12 | 1.320 | 84.4 | 0.738 | 3.757 | 13.3 | 158.1 | --- | --- | -2.20 | 0.320 | 131.1 | 351.3 | -2.4 | 0.269 |
| 4-3800 | 4-4500 | 0.343 | 88.6 | 32.0 | 2.22 | 1.317 | 84.3 | 0.731 | 3.665 | 13.4 | 159.8 | --- | --- | -2.28 | 0.309 | 128.9 | 350.4 | -2.6 | 0.258 |
| 4-3800 | 4-4520 | 0.341 | 88.5 | 32.4 | 2.34 | 1.315 | 84.3 | 0.726 | 3.589 | 13.5 | 161.3 | --- | --- | -2.38 | 0.299 | 126.6 | 349.5 | -2.9 | 0.248 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3800 | 4-4540 | 0.340 | 88.5 | 32.9 | 2.46 | 1.313 | 84.4 | 0.721 | 3.525 | 13.4 | 162.8 | --- | --- | -2.48 | 0.290 | 124.3 | 348.5 | -3.1 | 0.238 |
| 4-3800 | 4-4560 | 0.338 | 88.6 | 33.5 | 2.60 | 1.311 | 84.4 | 0.716 | 3.471 | 13.4 | 164.2 | --- | --- | -2.60 | 0.282 | 122.0 | 347.5 | -3.4 | 0.230 |
| 4-3800 | 4-4580 | 0.336 | 88.8 | 34.1 | 2.74 | 1.310 | 84.5 | 0.712 | 3.425 | 13.2 | 165.6 | --- | --- | -2.73 | 0.275 | 119.7 | 346.4 | -3.7 | 0.222 |
| 4-3800 | 4-4600 | 0.335 | 89.1 | 34.8 | 2.91 | 1.309 | 84.6 | 0.709 | 3.387 | 13.0 | 166.9 | --- | --- | -2.88 | 0.268 | 117.4 | 345.2 | -4.0 | 0.216 |
| 4-3800 | 4-4620 | 0.334 | 89.5 | 35.6 | 3.09 | 1.307 | 84.7 | 0.706 | 3.354 | 12.8 | 168.2 | --- | --- | -3.04 | 0.263 | 115.0 | 344.1 | -4.3 | 0.210 |
| 4-3800 | 4-4640 | 0.333 | 90.0 | 36.4 | 3.30 | 1.307 | 84.8 | 0.703 | 3.327 | 12.5 | 169.4 | --- | --- | -3.23 | 0.258 | 112.7 | 342.9 | -4.7 | 0.204 |
| 4-3800 | 4-4660 | 0.332 | 90.6 | 37.4 | 3.53 | 1.306 | 85.0 | 0.701 | 3.304 | 12.2 | 170.6 | --- | --- | -3.45 | 0.254 | 110.4 | 341.7 | -5.1 | 0.200 |
| 4-3800 | 4-4680 | 0.331 | 91.3 | 38.5 | 3.79 | 1.305 | 85.2 | 0.699 | 3.285 | 11.8 | 171.7 | --- | --- | -3.70 | 0.250 | 108.1 | 340.5 | -5.5 | 0.196 |
| 4-3800 | 4-4700 | 0.331 | 92.1 | 39.7 | 4.10 | 1.305 | 85.3 | 0.698 | 3.269 | 11.4 | 172.8 | --- | --- | -3.98 | 0.247 | 105.8 | 339.3 | -6.0 | 0.193 |
| 4-3800 | 4-4720 | 0.331 | 93.0 | 41.2 | 4.46 | 1.304 | 85.5 | 0.696 | 3.257 | 10.9 | 173.9 | --- | --- | -4.33 | 0.244 | 103.6 | 338.2 | -6.6 | 0.190 |
| 4-3800 | 4-4740 | 0.332 | 94.0 | 42.9 | 4.89 | 1.304 | 85.7 | 0.695 | 3.246 | 10.4 | 174.9 | --- | --- | -4.74 | 0.242 | 101.4 | 337.0 | -7.2 | 0.188 |
| 4-3800 | 4-4760 | 0.334 | 95.1 | 44.9 | 5.40 | 1.303 | 85.9 | 0.694 | 3.238 | 9.9 | 175.9 | --- | --- | -5.23 | 0.241 | 99.2 | 336.0 | -7.9 | 0.186 |
| 4-3800 | 4-4780 | 0.336 | 96.4 | 47.3 | 6.04 | 1.303 | 86.2 | 0.693 | 3.232 | 9.3 | 176.8 | --- | --- | -5.85 | 0.239 | 97.1 | 334.9 | -8.8 | 0.185 |
| 4-3800 | 4-4800 | 0.341 | 97.8 | 50.3 | 6.85 | 1.303 | 86.4 | 0.693 | 3.228 | 8.8 | 177.8 | --- | --- | -6.64 | 0.238 | 95.0 | 334.0 | -9.9 | 0.185 |
| 4-3800 | 4-4820 | 0.349 | 99.4 | 54.1 | 7.90 | 1.303 | 86.7 | 0.692 | 3.225 | 8.2 | 178.6 | --- | --- | -7.69 | 0.238 | 93.0 | 333.1 | -11.3 | 0.185 |
| 4-3800 | 4-4840 | 0.361 | 101.4 | 59.0 | 9.35 | 1.303 | 86.9 | 0.692 | 3.224 | 7.5 | 179.5 | --- | --- | -9.12 | 0.238 | 91.1 | 332.4 | -13.1 | 0.187 |
| 4-3800 | 4-4860 | 0.384 | 104.1 | 65.4 | 11.46 | 1.303 | 87.2 | 0.692 | 3.224 | 6.9 | 180.4 | --- | 5.454 | -11.21 | 0.238 | 89.2 | 331.7 | -15.5 | 0.190 |
| 4-3800 | 4-4880 | 0.425 | 109.0 | 74.3 | 14.80 | 1.303 | 87.5 | 0.692 | 3.225 | 6.2 | 181.2 | --- | 5.456 | -14.53 | 0.238 | 87.4 | 331.3 | -19.1 | 0.197 |
| 4-3800 | 4-4900 | 0.514 | 142.8 | 86.4 | 20.84 | 1.303 | 87.7 | 0.692 | 3.227 | 5.6 | 182.0 | --- | 5.460 | -20.55 | 0.239 | 85.6 | 331.2 | -24.6 | 0.213 |
| 4-3800 | 4-4920 | 0.743 | 277.6 | 73.3 | 34.47 | 1.303 | 88.0 | 0.692 | 3.230 | 5.0 | 182.7 | --- | 5.465 | -34.16 | 0.239 | 83.9 | 332.0 | -32.5 | 0.259 |
| 4-3800 | 4-4940 | 1.421 | 287.7 | 40.5 | 74.76 | 1.303 | 88.0 | 0.692 | 3.234 | 4.8 | 183.5 | --- | 5.473 | -74.44 | 0.240 | 82.2 | 334.8 | -34.2 | 0.423 |
| 4-3800 | 4-4960 | 0.963 | 74.2 | -71.3 | -47.14 | 1.303 | 89.0 | 0.692 | 3.239 | 2.5 | 184.2 | --- | 5.481 | 47.47 | 0.241 | 80.8 | 329.7 | 32.6 | 0.313 |
| 4-3800 | 4-4980 | 0.579 | 96.3 | -48.6 | -24.98 | 1.304 | 89.2 | 0.693 | 3.244 | 1.9 | 184.9 | --- | 5.492 | 25.33 | 0.243 | 79.2 | 328.1 | 24.7 | 0.231 |
| 4-3800 | 4-5000 | 0.445 | 101.9 | -33.4 | -16.45 | 1.304 | 89.5 | 0.693 | 3.250 | 1.2 | 185.6 | --- | 5.504 | 16.82 | 0.244 | 77.7 | 327.5 | 17.8 | 0.207 |
| 4-3800 | 4-5020 | 0.386 | 105.2 | -22.9 | -12.14 | 1.304 | 89.8 | 0.694 | 3.257 | 0.4 | 186.2 | --- | 5.517 | 12.53 | 0.246 | 76.3 | 327.3 | 13.4 | 0.200 |
| 4-3800 | 4-5040 | 0.356 | 107.8 | -15.4 | -9.56 | 1.304 | 90.2 | 0.695 | 3.264 | 359.6 | 546.9 | 0.996 | 5.531 | 9.96 | 0.247 | 75.0 | 327.2 | 10.5 | 0.197 |
| 4-3800 | 4-5060 | 0.339 | 110.2 | -9.9 | -7.85 | 1.305 | 90.5 | 0.695 | 3.271 | 358.7 | 547.5 | 0.996 | 5.546 | 8.27 | 0.249 | 73.6 | 327.2 | 8.4 | 0.196 |
| 4-3800 | 4-5080 | 0.329 | 112.3 | -5.7 | -6.63 | 1.305 | 90.9 | 0.696 | 3.279 | 357.8 | 548.1 | 0.996 | 5.562 | 7.07 | 0.251 | 72.4 | 327.3 | 7.0 | 0.196 |
| 4-3800 | 4-5100 | 0.322 | 114.4 | -2.6 | -5.72 | 1.305 | 91.3 | 0.697 | 3.288 | 356.9 | 548.8 | 0.996 | 5.580 | 6.17 | 0.253 | 71.2 | 327.4 | 5.8 | 0.197 |
| 4-3800 | 4-5120 | 0.318 | 116.4 | -0.1 | -5.01 | 1.305 | 91.7 | 0.698 | 3.296 | 356.0 | 549.3 | 0.995 | 5.597 | 5.48 | 0.255 | 70.0 | 327.6 | 5.0 | 0.199 |
| 4-3800 | 4-5140 | 0.316 | 118.4 | 1.8 | -4.45 | 1.306 | 92.0 | 0.699 | 3.306 | 355.0 | 549.9 | 0.995 | 5.616 | 4.93 | 0.257 | 68.9 | 327.8 | 4.3 | 0.200 |
| 4-3800 | 4-5160 | 0.314 | 120.4 | 3.4 | -3.98 | 1.306 | 92.4 | 0.700 | 3.315 | 354.1 | 550.5 | 0.994 | 5.636 | 4.48 | 0.259 | 67.8 | 328.1 | 3.7 | 0.202 |
| 4-3800 | 4-5180 | 0.313 | 122.4 | 4.6 | -3.59 | 1.306 | 92.8 | 0.701 | 3.325 | 353.1 | 551.0 | 0.993 | 5.656 | 4.11 | 0.261 | 66.7 | 328.5 | 3.2 | 0.204 |
| 4-3800 | 4-5200 | 0.313 | 124.3 | 5.6 | -3.26 | 1.307 | 93.3 | 0.702 | 3.335 | 352.1 | 551.6 | 0.992 | 5.677 | 3.80 | 0.263 | 65.7 | 328.9 | 2.8 | 0.206 |
| 4-3800 | 4-5220 | 0.314 | 126.3 | 6.4 | -2.98 | 1.307 | 93.7 | 0.704 | 3.345 | 351.1 | 552.1 | 0.991 | 5.698 | 3.54 | 0.265 | 64.7 | 329.3 | 2.5 | 0.209 |
| 4-3800 | 4-5240 | 0.315 | 128.3 | 7.1 | -2.73 | 1.308 | 94.1 | 0.705 | 3.355 | 350.1 | 552.6 | 0.990 | 5.721 | 3.31 | 0.268 | 63.8 | 329.8 | 2.2 | 0.211 |
| 4-3800 | 4-5260 | 0.317 | 130.2 | 7.5 | -2.51 | 1.308 | 94.5 | 0.706 | 3.366 | 349.0 | 553.1 | 0.989 | 5.743 | 3.11 | 0.270 | 62.9 | 330.4 | 2.0 | 0.213 |
| 4-3800 | 4-5280 | 0.318 | 132.1 | 7.9 | -2.32 | 1.308 | 95.0 | 0.708 | 3.377 | 348.0 | 553.6 | 0.987 | 5.766 | 2.93 | 0.272 | 62.0 | 331.0 | 1.8 | 0.216 |
| 4-3800 | 4-5300 | 0.321 | 134.1 | 8.2 | -2.15 | 1.309 | 95.4 | 0.709 | 3.388 | 346.9 | 554.0 | 0.986 | 5.790 | 2.78 | 0.275 | 61.1 | 331.6 | 1.6 | 0.218 |
| 4-3800 | 4-5320 | 0.323 | 136.0 | 8.4 | -1.99 | 1.309 | 95.9 | 0.711 | 3.399 | 345.8 | 554.5 | 0.984 | 5.815 | 2.64 | 0.277 | 60.3 | 332.3 | 1.5 | 0.220 |
| 4-3800 | 4-5340 | 0.326 | 137.9 | 8.5 | -1.85 | 1.309 | 96.3 | 0.712 | 3.410 | 344.7 | 555.0 | 0.982 | 5.839 | 2.51 | 0.279 | 59.5 | 333.0 | 1.3 | 0.223 |
| 4-3800 | 4-5360 | 0.330 | 139.7 | 8.5 | -1.72 | 1.310 | 96.8 | 0.714 | 3.422 | 343.6 | 555.4 | 0.979 | 5.864 | 2.40 | 0.282 | 58.7 | 333.8 | 1.2 | 0.226 |
| 4-3800 | 4-5380 | 0.333 | 141.6 | 8.5 | -1.60 | 1.310 | 97.3 | 0.715 | 3.434 | 342.5 | 555.8 | 0.977 | 5.890 | 2.30 | 0.284 | 58.0 | 334.6 | 1.1 | 0.228 |
| 4-3800 | 4-5400 | 0.337 | 143.4 | 8.4 | -1.49 | 1.310 | 97.8 | 0.717 | 3.445 | 341.4 | 556.2 | 0.974 | 5.916 | 2.21 | 0.286 | 57.2 | 335.4 | 1.0 | 0.231 |
| 4-3810 | 4-4090 | 0.617 | 118.7 | 23.1 | 0.85 | 1.619 | 87.5 | 1.602 | -1.648 | 4.1 | 108.8 | --- | --- | -1.23 | 0.991 | 162.3 | 354.9 | -0.7 | 0.935 |
| 4-3810 | 4-4110 | 0.573 | 115.6 | 23.8 | 0.88 | 1.571 | 86.6 | 1.452 | -2.192 | 5.8 | 112.1 | --- | --- | -1.24 | 0.911 | 161.3 | 355.2 | -0.7 | 0.857 |
| 4-3810 | 4-4130 | 0.538 | 112.4 | 24.5 | 0.92 | 1.532 | 85.7 | 1.331 | -2.990 | 7.5 | 115.3 | --- | --- | -1.25 | 0.842 | 160.3 | 355.4 | -0.7 | 0.789 |
| 4-3810 | 4-4150 | 0.509 | 109.3 | 25.1 | 0.96 | 1.499 | 85.0 | 1.232 | -4.251 | 9.1 | 118.6 | --- | --- | -1.26 | 0.780 | 159.2 | 355.6 | -0.7 | 0.728 |
| 4-3810 | 4-4170 | 0.487 | 106.3 | 25.6 | 0.99 | 1.472 | 84.2 | 1.151 | -6.524 | 10.7 | 121.7 | --- | --- | -1.27 | 0.725 | 158.0 | 355.8 | -0.7 | 0.675 |
| 4-3810 | 4-4190 | 0.468 | 103.5 | 26.1 | 1.03 | 1.449 | 83.6 | 1.084 | 11.750 | 12.3 | 124.8 | --- | --- | -1.29 | 0.677 | 156.8 | 355.9 | -0.8 | 0.627 |
| 4-3810 | 4-4210 | 0.454 | 100.7 | 26.4 | 1.07 | 1.429 | 83.0 | 1.027 | 35.741 | 13.8 | 127.9 | --- | --- | -1.30 | 0.633 | 155.5 | 356.0 | -0.8 | 0.584 |
| 4-3810 | 4-4230 | 0.442 | 98.2 | 26.7 | 1.11 | 1.412 | 82.5 | 0.980 | 49.637 | 15.1 | 130.8 | --- | --- | -1.32 | 0.593 | 154.2 | 356.0 | -0.8 | 0.545 |
| 4-3810 | 4-4250 | 0.432 | 96.0 | 27.0 | 1.15 | 1.397 | 82.0 | 0.941 | 16.396 | 16.4 | 133.6 | --- | --- | -1.34 | 0.557 | 152.7 | 355.9 | -0.9 | 0.510 |
| 4-3810 | 4-4270 | 0.424 | 93.9 | 27.2 | 1.19 | 1.385 | 81.6 | 0.907 | 10.438 | 17.6 | 136.4 | --- | --- | -1.36 | 0.525 | 151.2 | 355.8 | -0.9 | 0.478 |
| 4-3810 | 4-4290 | 0.418 | 92.0 | 27.4 | 1.23 | 1.374 | 81.3 | 0.878 | 7.963 | 18.7 | 139.0 | --- | --- | -1.38 | 0.495 | 149.7 | 355.7 | -1.0 | 0.448 |
| 4-3810 | 4-4310 | 0.412 | 90.4 | 27.6 | 1.28 | 1.365 | 81.0 | 0.854 | 6.615 | 19.6 | 141.5 | --- | --- | -1.40 | 0.468 | 148.0 | 355.4 | -1.1 | 0.422 |
| 4-3810 | 4-4330 | 0.408 | 88.9 | 27.8 | 1.32 | 1.356 | 80.7 | 0.833 | 5.772 | 20.5 | 143.9 | --- | --- | -1.43 | 0.444 | 146.3 | 355.1 | -1.1 | 0.398 |
| 4-3810 | 4-4350 | 0.404 | 87.7 | 27.9 | 1.37 | 1.349 | 80.5 | 0.815 | 5.200 | 21.2 | 146.1 | --- | --- | -1.45 | 0.421 | 144.5 | 354.8 | -1.2 | 0.376 |
| 4-3810 | 4-4370 | 0.400 | 86.6 | 28.1 | 1.42 | 1.343 | 80.3 | 0.799 | 4.789 | 21.9 | 148.3 | --- | --- | -1.48 | 0.401 | 142.7 | 354.4 | -1.3 | 0.355 |
| 4-3810 | 4-4390 | 0.397 | 85.7 | 28.3 | 1.47 | 1.338 | 80.2 | 0.786 | 4.482 | 22.4 | 150.4 | --- | --- | -1.51 | 0.382 | 140.8 | 353.9 | -1.4 | 0.337 |
| 4-3810 | 4-4410 | 0.394 | 84.9 | 28.4 | 1.52 | 1.333 | 80.0 | 0.774 | 4.245 | 22.9 | 152.4 | --- | --- | -1.54 | 0.365 | 138.8 | 353.3 | -1.5 | 0.320 |
| 4-3810 | 4-4430 | 0.392 | 84.3 | 28.6 | 1.57 | 1.329 | 80.0 | 0.764 | 4.058 | 23.2 | 154.3 | --- | --- | -1.58 | 0.350 | 136.7 | 352.6 | -1.6 | 0.304 |
| 4-3810 | 4-4450 | 0.389 | 83.8 | 28.8 | 1.63 | 1.326 | 79.9 | 0.755 | 3.908 | 23.5 | 156.1 | --- | --- | -1.62 | 0.336 | 134.6 | 351.9 | -1.8 | 0.290 |
| 4-3810 | 4-4470 | 0.387 | 83.5 | 29.0 | 1.69 | 1.323 | 79.9 | 0.747 | 3.786 | 23.7 | 157.8 | --- | --- | -1.66 | 0.323 | 132.5 | 351.1 | -1.9 | 0.277 |
| 4-3810 | 4-4490 | 0.385 | 83.2 | 29.2 | 1.75 | 1.320 | 79.9 | 0.740 | 3.686 | 23.8 | 159.5 | --- | --- | -1.70 | 0.311 | 130.2 | 350.3 | -2.0 | 0.265 |
| 4-3810 | 4-4510 | 0.383 | 83.1 | 29.5 | 1.82 | 1.317 | 79.9 | 0.734 | 3.603 | 23.9 | 161.0 | --- | --- | -1.75 | 0.301 | 128.0 | 349.4 | -2.2 | 0.254 |
| 4-3810 | 4-4530 | 0.380 | 83.1 | 29.7 | 1.89 | 1.315 | 80.0 | 0.729 | 3.534 | 23.9 | 162.5 | --- | --- | -1.80 | 0.291 | 125.7 | 348.4 | -2.4 | 0.244 |
| 4-3810 | 4-4550 | 0.378 | 83.1 | 30.0 | 1.96 | 1.314 | 80.0 | 0.724 | 3.476 | 23.8 | 164.0 | --- | --- | -1.86 | 0.283 | 123.4 | 347.4 | -2.5 | 0.236 |
| 4-3810 | 4-4570 | 0.376 | 83.3 | 30.4 | 2.04 | 1.312 | 80.1 | 0.720 | 3.428 | 23.6 | 165.4 | --- | --- | -1.92 | 0.275 | 121.0 | 346.3 | -2.7 | 0.228 |
| 4-3810 | 4-4590 | 0.374 | 83.5 | 30.7 | 2.13 | 1.311 | 80.2 | 0.717 | 3.387 | 23.5 | 166.7 | --- | --- | -1.99 | 0.269 | 118.6 | 345.2 | -2.9 | 0.220 |
| 4-3810 | 4-4610 | 0.372 | 83.9 | 31.1 | 2.22 | 1.310 | 80.4 | 0.714 | 3.353 | 23.2 | 167.9 | --- | --- | -2.06 | 0.263 | 116.3 | 344.0 | -3.1 | 0.214 |
| 4-3810 | 4-4630 | 0.369 | 84.3 | 31.5 | 2.32 | 1.309 | 80.5 | 0.711 | 3.324 | 22.9 | 169.2 | --- | --- | -2.14 | 0.257 | 113.9 | 342.8 | -3.3 | 0.208 |
| 4-3810 | 4-4650 | 0.367 | 84.7 | 31.9 | 2.42 | 1.308 | 80.7 | 0.708 | 3.300 | 22.6 | 170.3 | --- | --- | -2.23 | 0.253 | 111.5 | 341.7 | -3.5 | 0.204 |
| 4-3810 | 4-4670 | 0.365 | 85.3 | 32.4 | 2.54 | 1.307 | 80.8 | 0.706 | 3.279 | 22.2 | 171.5 | --- | --- | -2.33 | 0.249 | 109.2 | 340.5 | -3.8 | 0.199 |
| 4-3810 | 4-4690 | 0.363 | 85.9 | 32.9 | 2.67 | 1.306 | 81.0 | 0.704 | 3.263 | 21.8 | 172.5 | --- | --- | -2.44 | 0.246 | 106.9 | 339.3 | -4.0 | 0.195 |
| 4-3810 | 4-4710 | 0.361 | 86.6 | 33.5 | 2.80 | 1.306 | 81.2 | 0.703 | 3.249 | 21.3 | 173.6 | --- | --- | -2.56 | 0.243 | 104.6 | 338.2 | -4.3 | 0.192 |
| 4-3810 | 4-4730 | 0.358 | 87.3 | 34.1 | 2.96 | 1.306 | 81.4 | 0.701 | 3.239 | 20.8 | 174.6 | --- | --- | -2.70 | 0.241 | 102.3 | 337.0 | -4.5 | 0.190 |
| 4-3810 | 4-4750 | 0.356 | 88.1 | 34.8 | 3.13 | 1.305 | 81.7 | 0.700 | 3.230 | 20.3 | 175.6 | --- | --- | -2.85 | 0.239 | 100.1 | 336.0 | -4.8 | 0.188 |
| 4-3810 | 4-4770 | 0.354 | 89.0 | 35.6 | 3.32 | 1.305 | 81.9 | 0.699 | 3.224 | 19.7 | 176.5 | --- | --- | -3.02 | 0.238 | 98.0 | 334.9 | -5.1 | 0.186 |
| 4-3810 | 4-4790 | 0.353 | 90.0 | 36.5 | 3.53 | 1.305 | 82.2 | 0.698 | 3.219 | 19.1 | 177.4 | --- | --- | -3.22 | 0.237 | 95.9 | 334.0 | -5.5 | 0.185 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3810 | 4-4810 | 0.351 | 91.0 | 37.5 | 3.78 | 1.305 | 82.4 | 0.698 | 3.216 | 18.5 | 178.3 | --- | --- | -3.45 | 0.236 | 93.9 | 333.1 | -5.8 | 0.184 |
| 4-3810 | 4-4830 | 0.350 | 92.1 | 38.6 | 4.06 | 1.305 | 82.7 | 0.697 | 3.215 | 17.8 | 179.2 | --- | --- | -3.72 | 0.236 | 91.9 | 332.2 | -6.2 | 0.183 |
| 4-3810 | 4-4850 | 0.349 | 93.3 | 39.9 | 4.40 | 1.305 | 83.0 | 0.697 | 3.215 | 17.2 | 180.0 | --- | 5.454 | -4.04 | 0.236 | 90.0 | 331.4 | -6.7 | 0.183 |
| 4-3810 | 4-4870 | 0.348 | 94.6 | 41.5 | 4.79 | 1.305 | 83.2 | 0.696 | 3.216 | 16.5 | 180.8 | --- | 5.455 | -4.42 | 0.236 | 88.1 | 330.8 | -7.2 | 0.183 |
| 4-3810 | 4-4890 | 0.349 | 96.0 | 43.3 | 5.27 | 1.305 | 83.5 | 0.696 | 3.218 | 15.7 | 181.6 | --- | 5.458 | -4.88 | 0.237 | 86.3 | 330.1 | -7.8 | 0.184 |
| 4-3810 | 4-4910 | 0.350 | 97.5 | 45.5 | 5.85 | 1.305 | 83.8 | 0.696 | 3.221 | 15.0 | 182.4 | --- | 5.463 | -5.45 | 0.237 | 84.6 | 329.6 | -8.5 | 0.185 |
| 4-3810 | 4-4930 | 0.353 | 99.1 | 48.2 | 6.60 | 1.305 | 84.2 | 0.696 | 3.225 | 14.2 | 183.1 | --- | 5.469 | -6.18 | 0.238 | 82.9 | 329.2 | -9.4 | 0.186 |
| 4-3810 | 4-4950 | 0.358 | 100.9 | 51.7 | 7.57 | 1.305 | 84.5 | 0.696 | 3.230 | 13.5 | 183.8 | --- | 5.478 | -7.13 | 0.240 | 81.3 | 328.9 | -10.6 | 0.188 |
| 4-3810 | 4-4970 | 0.368 | 103.0 | 56.2 | 8.90 | 1.305 | 84.8 | 0.696 | 3.235 | 12.7 | 184.5 | --- | 5.487 | -8.45 | 0.241 | 79.8 | 328.7 | -12.1 | 0.191 |
| 4-3810 | 4-4990 | 0.386 | 105.7 | 62.2 | 10.83 | 1.306 | 85.1 | 0.696 | 3.242 | 11.9 | 185.2 | --- | 5.498 | -10.36 | 0.242 | 78.3 | 328.7 | -14.3 | 0.195 |
| 4-3810 | 4-5010 | 0.421 | 109.6 | 70.5 | 13.86 | 1.306 | 85.5 | 0.696 | 3.248 | 11.0 | 185.9 | --- | 5.511 | -13.38 | 0.244 | 76.9 | 328.9 | -17.4 | 0.201 |
| 4-3810 | 4-5030 | 0.498 | 121.5 | 82.5 | 19.31 | 1.306 | 85.8 | 0.697 | 3.256 | 10.2 | 186.5 | --- | 5.524 | -18.81 | 0.246 | 75.5 | 329.6 | -22.4 | 0.215 |
| 4-3810 | 4-5050 | 0.698 | 281.2 | 78.3 | 31.55 | 1.306 | 86.1 | 0.697 | 3.263 | 9.5 | 187.2 | --- | 5.539 | -31.04 | 0.247 | 74.2 | 331.7 | -30.3 | 0.255 |
| 4-3810 | 4-5070 | 1.342 | 294.8 | 45.8 | 69.41 | 1.307 | 86.3 | 0.698 | 3.272 | 9.1 | 187.8 | --- | 5.555 | -68.88 | 0.249 | 72.9 | 338.1 | -34.4 | 0.406 |
| 4-3810 | 4-5090 | 0.978 | 67.2 | -68.7 | -47.76 | 1.307 | 87.2 | 0.698 | 3.280 | 6.8 | 188.4 | --- | 5.570 | 48.31 | 0.251 | 71.8 | 332.0 | 32.0 | 0.323 |
| 4-3810 | 4-5110 | 0.571 | 96.4 | -46.5 | -24.20 | 1.307 | 87.5 | 0.699 | 3.289 | 6.1 | 189.0 | --- | 5.587 | 24.76 | 0.253 | 70.6 | 328.8 | 23.3 | 0.238 |
| 4-3810 | 4-5130 | 0.437 | 103.6 | -31.0 | -15.60 | 1.308 | 87.8 | 0.699 | 3.298 | 5.3 | 189.6 | --- | 5.605 | 16.18 | 0.255 | 69.5 | 328.2 | 16.3 | 0.217 |
| 4-3810 | 4-5150 | 0.381 | 107.7 | -20.4 | -11.36 | 1.308 | 88.2 | 0.700 | 3.308 | 4.4 | 190.1 | --- | 5.624 | 11.96 | 0.257 | 68.4 | 328.2 | 12.0 | 0.210 |
| 4-3810 | 4-5170 | 0.353 | 110.7 | -13.1 | -8.86 | 1.308 | 88.6 | 0.701 | 3.318 | 3.4 | 190.7 | --- | 5.643 | 9.47 | 0.260 | 67.3 | 328.5 | 9.3 | 0.208 |
| 4-3810 | 4-5190 | 0.337 | 113.4 | -7.9 | -7.21 | 1.309 | 89.0 | 0.702 | 3.328 | 2.5 | 191.2 | --- | 5.663 | 7.83 | 0.262 | 66.3 | 328.8 | 7.4 | 0.208 |
| 4-3810 | 4-5210 | 0.327 | 115.8 | -4.0 | -6.04 | 1.309 | 89.4 | 0.702 | 3.339 | 1.5 | 191.8 | --- | 5.684 | 6.68 | 0.264 | 65.4 | 329.2 | 6.1 | 0.209 |
| 4-3810 | 4-5230 | 0.321 | 118.2 | -1.1 | -5.17 | 1.309 | 89.8 | 0.703 | 3.349 | 0.5 | 192.3 | --- | 5.705 | 5.83 | 0.266 | 64.4 | 329.7 | 5.1 | 0.211 |
| 4-3810 | 4-5250 | 0.317 | 120.4 | 1.2 | -4.49 | 1.310 | 90.2 | 0.704 | 3.360 | 359.4 | 552.8 | 0.994 | 5.727 | 5.17 | 0.269 | 63.5 | 330.3 | 4.3 | 0.212 |
| 4-3810 | 4-5270 | 0.314 | 122.6 | 2.9 | -3.95 | 1.310 | 90.7 | 0.705 | 3.371 | 358.4 | 553.3 | 0.993 | 5.749 | 4.64 | 0.271 | 62.7 | 330.8 | 3.7 | 0.214 |
| 4-3810 | 4-5290 | 0.312 | 124.8 | 4.3 | -3.51 | 1.311 | 91.1 | 0.706 | 3.383 | 357.4 | 553.8 | 0.993 | 5.772 | 4.22 | 0.273 | 61.8 | 331.4 | 3.2 | 0.216 |
| 4-3810 | 4-5310 | 0.311 | 127.0 | 5.3 | -3.14 | 1.311 | 91.5 | 0.708 | 3.394 | 356.3 | 554.2 | 0.993 | 5.796 | 3.87 | 0.276 | 61.0 | 332.1 | 2.8 | 0.218 |
| 4-3810 | 4-5330 | 0.311 | 129.2 | 6.2 | -2.83 | 1.311 | 92.0 | 0.709 | 3.406 | 355.2 | 554.7 | 0.992 | 5.819 | 3.57 | 0.278 | 60.2 | 332.8 | 2.5 | 0.221 |
| 4-3810 | 4-5350 | 0.311 | 131.3 | 6.8 | -2.56 | 1.312 | 92.4 | 0.710 | 3.417 | 354.1 | 555.1 | 0.991 | 5.843 | 3.32 | 0.281 | 59.5 | 333.5 | 2.2 | 0.223 |
| 4-3810 | 4-5370 | 0.312 | 133.5 | 7.2 | -2.33 | 1.312 | 92.9 | 0.711 | 3.429 | 353.0 | 555.6 | 0.990 | 5.868 | 3.10 | 0.283 | 58.8 | 334.3 | 2.0 | 0.225 |
| 4-3810 | 4-5390 | 0.313 | 135.6 | 7.6 | -2.12 | 1.312 | 93.4 | 0.712 | 3.441 | 351.9 | 556.0 | 0.989 | 5.893 | 2.91 | 0.285 | 58.0 | 335.1 | 1.8 | 0.228 |
| 4-3810 | 4-5410 | 0.314 | 137.7 | 7.8 | -1.94 | 1.313 | 93.8 | 0.714 | 3.453 | 350.8 | 556.4 | 0.988 | 5.918 | 2.75 | 0.288 | 57.3 | 335.9 | 1.6 | 0.230 |
| 4-3820 | 4-4100 | 0.634 | 111.1 | 24.1 | 0.84 | 1.603 | 80.9 | 1.535 | -1.812 | 15.1 | 110.6 | --- | --- | -1.08 | 0.962 | 162.2 | 355.0 | -0.6 | 0.909 |
| 4-3820 | 4-4120 | 0.597 | 107.8 | 24.7 | 0.87 | 1.558 | 80.1 | 1.396 | -2.442 | 16.9 | 114.0 | --- | --- | -1.09 | 0.885 | 161.3 | 355.2 | -0.6 | 0.834 |
| 4-3820 | 4-4140 | 0.568 | 104.7 | 25.1 | 0.90 | 1.521 | 79.5 | 1.283 | -3.397 | 18.8 | 117.4 | --- | --- | -1.09 | 0.817 | 160.2 | 355.4 | -0.6 | 0.767 |
| 4-3820 | 4-4160 | 0.545 | 101.6 | 25.5 | 0.93 | 1.490 | 78.8 | 1.192 | -4.989 | 20.5 | 120.7 | --- | --- | -1.10 | 0.757 | 159.1 | 355.5 | -0.7 | 0.709 |
| 4-3820 | 4-4180 | 0.526 | 98.8 | 25.8 | 0.96 | 1.463 | 78.3 | 1.117 | -8.139 | 22.2 | 124.0 | --- | --- | -1.10 | 0.704 | 157.9 | 355.6 | -0.7 | 0.657 |
| 4-3820 | 4-4200 | 0.512 | 96.2 | 26.0 | 0.99 | 1.441 | 77.8 | 1.055 | 17.147 | 23.8 | 127.2 | --- | --- | -1.11 | 0.656 | 156.7 | 355.6 | -0.7 | 0.610 |
| 4-3820 | 4-4220 | 0.501 | 93.9 | 26.2 | 1.02 | 1.422 | 77.3 | 1.004 | 33.278 | 25.4 | 130.2 | --- | --- | -1.12 | 0.613 | 155.4 | 355.6 | -0.7 | 0.568 |
| 4-3820 | 4-4240 | 0.491 | 91.7 | 26.4 | 1.05 | 1.406 | 76.9 | 0.961 | 24.281 | 26.8 | 133.2 | --- | --- | -1.12 | 0.575 | 154.0 | 355.6 | -0.8 | 0.531 |
| 4-3820 | 4-4260 | 0.484 | 89.8 | 26.5 | 1.08 | 1.392 | 76.5 | 0.925 | 12.532 | 28.0 | 136.0 | --- | --- | -1.13 | 0.540 | 152.5 | 355.4 | -0.8 | 0.496 |
| 4-3820 | 4-4280 | 0.478 | 88.2 | 26.6 | 1.12 | 1.380 | 76.2 | 0.895 | 8.876 | 29.2 | 138.7 | --- | --- | -1.14 | 0.508 | 151.0 | 355.2 | -0.9 | 0.466 |
| 4-3820 | 4-4300 | 0.472 | 86.7 | 26.6 | 1.15 | 1.370 | 76.0 | 0.869 | 7.103 | 30.2 | 141.3 | --- | --- | -1.16 | 0.479 | 149.4 | 355.0 | -0.9 | 0.437 |
| 4-3820 | 4-4320 | 0.468 | 85.4 | 26.7 | 1.18 | 1.361 | 75.7 | 0.847 | 6.064 | 31.1 | 143.8 | --- | --- | -1.17 | 0.453 | 147.7 | 354.7 | -1.0 | 0.412 |
| 4-3820 | 4-4340 | 0.464 | 84.3 | 26.8 | 1.22 | 1.354 | 75.6 | 0.829 | 5.386 | 31.9 | 146.1 | --- | --- | -1.18 | 0.429 | 146.0 | 354.3 | -1.0 | 0.388 |
| 4-3820 | 4-4360 | 0.461 | 83.4 | 26.9 | 1.25 | 1.347 | 75.4 | 0.813 | 4.912 | 32.6 | 148.3 | --- | --- | -1.20 | 0.408 | 144.1 | 353.9 | -1.1 | 0.367 |
| 4-3820 | 4-4380 | 0.458 | 82.6 | 26.9 | 1.29 | 1.341 | 75.3 | 0.799 | 4.564 | 33.2 | 150.4 | --- | --- | -1.21 | 0.388 | 142.2 | 353.3 | -1.2 | 0.348 |
| 4-3820 | 4-4400 | 0.455 | 82.0 | 27.0 | 1.33 | 1.336 | 75.2 | 0.787 | 4.300 | 33.7 | 152.4 | --- | --- | -1.23 | 0.370 | 140.3 | 352.8 | -1.3 | 0.330 |
| 4-3820 | 4-4420 | 0.452 | 81.5 | 27.1 | 1.36 | 1.332 | 75.2 | 0.776 | 4.095 | 34.1 | 154.3 | --- | --- | -1.25 | 0.353 | 138.2 | 352.1 | -1.4 | 0.314 |
| 4-3820 | 4-4440 | 0.449 | 81.1 | 27.2 | 1.40 | 1.328 | 75.2 | 0.767 | 3.932 | 34.3 | 156.2 | --- | --- | -1.27 | 0.338 | 136.1 | 351.4 | -1.5 | 0.299 |
| 4-3820 | 4-4460 | 0.447 | 80.8 | 27.3 | 1.44 | 1.325 | 75.2 | 0.759 | 3.801 | 34.5 | 157.9 | --- | --- | -1.29 | 0.325 | 133.9 | 350.6 | -1.6 | 0.285 |
| 4-3820 | 4-4480 | 0.444 | 80.6 | 27.5 | 1.49 | 1.322 | 75.2 | 0.752 | 3.693 | 34.7 | 159.5 | --- | --- | -1.31 | 0.312 | 131.7 | 349.7 | -1.7 | 0.273 |
| 4-3820 | 4-4500 | 0.441 | 80.5 | 27.6 | 1.53 | 1.319 | 75.2 | 0.746 | 3.605 | 34.7 | 161.1 | --- | --- | -1.34 | 0.301 | 129.4 | 348.8 | -1.8 | 0.261 |
| 4-3820 | 4-4520 | 0.439 | 80.5 | 27.7 | 1.57 | 1.317 | 75.3 | 0.741 | 3.532 | 34.7 | 162.6 | --- | --- | -1.37 | 0.291 | 127.1 | 347.8 | -1.9 | 0.251 |
| 4-3820 | 4-4540 | 0.436 | 80.6 | 27.9 | 1.62 | 1.315 | 75.4 | 0.736 | 3.471 | 34.6 | 164.0 | --- | --- | -1.40 | 0.282 | 124.7 | 346.8 | -2.0 | 0.242 |
| 4-3820 | 4-4560 | 0.433 | 80.7 | 28.1 | 1.67 | 1.314 | 75.5 | 0.732 | 3.419 | 34.4 | 165.4 | --- | --- | -1.43 | 0.274 | 122.3 | 345.7 | -2.2 | 0.234 |
| 4-3820 | 4-4580 | 0.430 | 80.9 | 28.3 | 1.72 | 1.312 | 75.7 | 0.728 | 3.377 | 34.2 | 166.7 | --- | --- | -1.46 | 0.267 | 119.9 | 344.6 | -2.3 | 0.226 |
| 4-3820 | 4-4600 | 0.427 | 81.2 | 28.5 | 1.78 | 1.311 | 75.8 | 0.725 | 3.341 | 34.0 | 167.9 | --- | --- | -1.50 | 0.261 | 117.5 | 343.5 | -2.5 | 0.220 |
| 4-3820 | 4-4620 | 0.424 | 81.5 | 28.7 | 1.83 | 1.310 | 76.0 | 0.722 | 3.311 | 33.6 | 169.1 | --- | --- | -1.54 | 0.255 | 115.0 | 342.3 | -2.6 | 0.214 |
| 4-3820 | 4-4640 | 0.421 | 81.9 | 29.0 | 1.89 | 1.309 | 76.2 | 0.719 | 3.286 | 33.3 | 170.3 | --- | --- | -1.58 | 0.250 | 112.6 | 341.2 | -2.7 | 0.208 |
| 4-3820 | 4-4660 | 0.418 | 82.4 | 29.2 | 1.96 | 1.308 | 76.3 | 0.717 | 3.265 | 32.9 | 171.4 | --- | --- | -1.63 | 0.246 | 110.2 | 340.0 | -2.9 | 0.204 |
| 4-3820 | 4-4680 | 0.415 | 82.9 | 29.5 | 2.02 | 1.308 | 76.6 | 0.715 | 3.248 | 32.4 | 172.5 | --- | --- | -1.68 | 0.243 | 107.8 | 338.9 | -3.1 | 0.200 |
| 4-3820 | 4-4700 | 0.412 | 83.5 | 29.8 | 2.09 | 1.307 | 76.8 | 0.713 | 3.234 | 32.0 | 173.5 | --- | --- | -1.73 | 0.240 | 105.5 | 337.7 | -3.2 | 0.197 |
| 4-3820 | 4-4720 | 0.408 | 84.1 | 30.1 | 2.17 | 1.307 | 77.0 | 0.711 | 3.223 | 31.4 | 174.5 | --- | --- | -1.79 | 0.238 | 103.2 | 336.6 | -3.4 | 0.194 |
| 4-3820 | 4-4740 | 0.405 | 84.7 | 30.5 | 2.25 | 1.307 | 77.2 | 0.710 | 3.214 | 30.9 | 175.4 | --- | --- | -1.86 | 0.236 | 100.9 | 335.6 | -3.5 | 0.191 |
| 4-3820 | 4-4760 | 0.402 | 85.5 | 30.8 | 2.34 | 1.306 | 77.5 | 0.709 | 3.208 | 30.3 | 176.4 | --- | --- | -1.93 | 0.234 | 98.7 | 334.6 | -3.7 | 0.189 |
| 4-3820 | 4-4780 | 0.398 | 86.2 | 31.2 | 2.43 | 1.306 | 77.8 | 0.707 | 3.203 | 29.7 | 177.3 | --- | --- | -2.01 | 0.233 | 96.5 | 333.6 | -3.9 | 0.188 |
| 4-3820 | 4-4800 | 0.395 | 87.1 | 31.6 | 2.54 | 1.306 | 78.0 | 0.707 | 3.200 | 29.1 | 178.1 | --- | --- | -2.10 | 0.233 | 94.5 | 332.7 | -4.0 | 0.187 |
| 4-3820 | 4-4820 | 0.392 | 87.9 | 32.1 | 2.65 | 1.306 | 78.3 | 0.706 | 3.199 | 28.4 | 179.0 | --- | --- | -2.20 | 0.233 | 92.4 | 331.9 | -4.2 | 0.186 |
| 4-3820 | 4-4840 | 0.388 | 88.9 | 32.6 | 2.77 | 1.306 | 78.6 | 0.705 | 3.199 | 27.7 | 179.8 | --- | --- | -2.31 | 0.233 | 90.5 | 331.1 | -4.4 | 0.186 |
| 4-3820 | 4-4860 | 0.385 | 89.8 | 33.2 | 2.91 | 1.306 | 78.9 | 0.704 | 3.201 | 27.0 | 180.6 | --- | 5.455 | -2.43 | 0.233 | 88.6 | 330.4 | -4.6 | 0.185 |
| 4-3820 | 4-4880 | 0.382 | 90.9 | 33.8 | 3.06 | 1.306 | 79.2 | 0.704 | 3.203 | 26.3 | 181.4 | --- | 5.457 | -2.57 | 0.234 | 86.7 | 329.8 | -4.8 | 0.185 |
| 4-3820 | 4-4900 | 0.379 | 92.0 | 34.5 | 3.23 | 1.306 | 79.5 | 0.703 | 3.206 | 25.5 | 182.1 | --- | 5.461 | -2.72 | 0.234 | 85.0 | 329.3 | -5.0 | 0.186 |
| 4-3820 | 4-4920 | 0.376 | 93.1 | 35.2 | 3.43 | 1.306 | 79.8 | 0.703 | 3.211 | 24.7 | 182.9 | --- | 5.468 | -2.90 | 0.235 | 83.3 | 328.8 | -5.2 | 0.186 |
| 4-3820 | 4-4940 | 0.373 | 94.3 | 36.1 | 3.65 | 1.307 | 80.2 | 0.703 | 3.216 | 23.9 | 183.6 | --- | 5.475 | -3.10 | 0.237 | 81.7 | 328.4 | -5.5 | 0.187 |
| 4-3820 | 4-4960 | 0.371 | 95.6 | 37.0 | 3.90 | 1.307 | 80.5 | 0.703 | 3.221 | 23.1 | 184.3 | --- | 5.484 | -3.34 | 0.238 | 80.1 | 328.1 | -5.8 | 0.188 |
| 4-3820 | 4-4980 | 0.368 | 97.0 | 38.2 | 4.20 | 1.307 | 80.8 | 0.702 | 3.228 | 22.3 | 184.9 | --- | 5.495 | -3.62 | 0.239 | 78.6 | 327.9 | -6.1 | 0.189 |
| 4-3820 | 4-5000 | 0.366 | 98.4 | 39.5 | 4.55 | 1.307 | 81.2 | 0.702 | 3.235 | 21.4 | 185.6 | --- | 5.507 | -3.96 | 0.241 | 77.2 | 327.7 | -6.5 | 0.191 |
| 4-3820 | 4-5020 | 0.365 | 99.9 | 41.0 | 4.97 | 1.308 | 81.5 | 0.702 | 3.242 | 20.5 | 186.2 | --- | 5.520 | -4.37 | 0.243 | 75.8 | 327.7 | -7.0 | 0.192 |
| 4-3820 | 4-5040 | 0.365 | 101.6 | 42.9 | 5.49 | 1.308 | 81.9 | 0.702 | 3.250 | 19.7 | 186.9 | --- | 5.534 | -4.88 | 0.245 | 74.5 | 327.7 | -7.6 | 0.194 |
| 4-3820 | 4-5060 | 0.366 | 103.4 | 45.3 | 6.15 | 1.308 | 82.3 | 0.703 | 3.259 | 18.8 | 187.5 | --- | 5.549 | -5.52 | 0.247 | 73.2 | 327.8 | -8.3 | 0.196 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3820 | 4-5080 | 0.369 | 105.3 | 48.3 | 7.01 | 1.309 | 82.6 | 0.703 | 3.268 | 17.9 | 188.1 | --- | 5.565 | -6.37 | 0.249 | 72.0 | 327.9 | -9.2 | 0.198 |
| 4-3820 | 4-5100 | 0.375 | 107.6 | 52.2 | 8.19 | 1.309 | 83.0 | 0.703 | 3.277 | 16.9 | 188.7 | --- | 5.581 | -7.53 | 0.251 | 70.8 | 328.2 | -10.5 | 0.201 |
| 4-3820 | 4-5120 | 0.389 | 110.3 | 57.6 | 9.88 | 1.309 | 83.4 | 0.703 | 3.287 | 16.0 | 189.3 | --- | 5.599 | -9.21 | 0.253 | 69.7 | 328.6 | -12.3 | 0.205 |
| 4-3820 | 4-5140 | 0.416 | 114.1 | 65.2 | 12.55 | 1.310 | 83.8 | 0.704 | 3.297 | 15.1 | 189.8 | --- | 5.617 | -11.86 | 0.255 | 68.6 | 329.3 | -15.0 | 0.211 |
| 4-3820 | 4-5160 | 0.477 | 121.8 | 76.5 | 17.32 | 1.310 | 84.2 | 0.704 | 3.307 | 14.1 | 190.4 | --- | 5.636 | -16.62 | 0.258 | 67.6 | 330.4 | -19.4 | 0.222 |
| 4-3820 | 4-5180 | 0.644 | 270.2 | 84.6 | 28.02 | 1.310 | 84.5 | 0.705 | 3.318 | 13.3 | 190.9 | --- | 5.655 | -27.31 | 0.260 | 66.6 | 333.1 | -27.0 | 0.253 |
| 4-3820 | 4-5200 | 1.247 | 300.8 | 52.3 | 63.27 | 1.311 | 84.8 | 0.705 | 3.328 | 12.7 | 191.5 | --- | 5.676 | -62.54 | 0.262 | 65.6 | 341.8 | -34.1 | 0.388 |
| 4-3820 | 4-5220 | 0.975 | 66.1 | -65.1 | -47.27 | 1.311 | 85.7 | 0.705 | 3.339 | 10.5 | 192.0 | --- | 5.695 | 48.01 | 0.265 | 64.8 | 335.9 | 31.2 | 0.332 |
| 4-3820 | 4-5240 | 0.550 | 99.0 | -42.8 | -22.55 | 1.311 | 86.0 | 0.706 | 3.351 | 9.7 | 192.5 | --- | 5.716 | 23.31 | 0.267 | 63.9 | 331.6 | 21.2 | 0.246 |
| 4-3820 | 4-5260 | 0.424 | 107.3 | -27.1 | -14.19 | 1.312 | 86.4 | 0.707 | 3.362 | 8.8 | 193.0 | --- | 5.738 | 14.96 | 0.269 | 63.0 | 331.1 | 14.3 | 0.228 |
| 4-3820 | 4-5280 | 0.374 | 111.8 | -16.8 | -10.17 | 1.312 | 86.8 | 0.707 | 3.374 | 7.8 | 193.5 | --- | 5.760 | 10.96 | 0.272 | 62.2 | 331.4 | 10.4 | 0.223 |
| 4-3820 | 4-5300 | 0.349 | 115.2 | -9.9 | -7.84 | 1.313 | 87.2 | 0.708 | 3.385 | 6.7 | 193.9 | --- | 5.783 | 8.64 | 0.274 | 61.4 | 331.9 | 7.9 | 0.222 |
| 4-3820 | 4-5320 | 0.335 | 118.1 | -5.0 | -6.31 | 1.313 | 87.6 | 0.709 | 3.397 | 5.7 | 194.4 | --- | 5.806 | 7.13 | 0.277 | 60.6 | 332.6 | 6.3 | 0.222 |
| 4-3820 | 4-5340 | 0.327 | 120.8 | -1.6 | -5.23 | 1.313 | 88.1 | 0.710 | 3.409 | 4.6 | 194.9 | --- | 5.829 | 6.06 | 0.279 | 59.9 | 333.3 | 5.2 | 0.224 |
| 4-3820 | 4-5360 | 0.321 | 123.3 | 1.0 | -4.43 | 1.314 | 88.5 | 0.711 | 3.421 | 3.5 | 195.3 | --- | 5.853 | 5.28 | 0.282 | 59.2 | 334.0 | 4.3 | 0.225 |
| 4-3820 | 4-5380 | 0.317 | 125.7 | 2.9 | -3.82 | 1.314 | 89.0 | 0.712 | 3.434 | 2.4 | 195.8 | --- | 5.877 | 4.68 | 0.284 | 58.5 | 334.8 | 3.7 | 0.227 |
| 4-3820 | 4-5400 | 0.314 | 128.1 | 4.4 | -3.32 | 1.315 | 89.5 | 0.712 | 3.446 | 1.3 | 196.2 | --- | 5.901 | 4.20 | 0.286 | 57.8 | 335.6 | 3.2 | 0.229 |
| 4-3820 | 4-5420 | 0.312 | 130.4 | 5.4 | -2.92 | 1.315 | 89.9 | 0.713 | 3.458 | 0.2 | 196.6 | --- | 5.926 | 3.81 | 0.289 | 57.2 | 336.4 | 2.8 | 0.231 |
| 4-3830 | 4-4150 | 0.628 | 98.5 | 25.3 | 0.90 | 1.508 | 72.9 | 1.230 | -3.963 | 31.0 | 120.3 | --- | --- | -0.93 | 0.791 | 160.3 | 355.0 | -0.6 | 0.746 |
| 4-3830 | 4-4170 | 0.608 | 95.9 | 25.5 | 0.93 | 1.479 | 72.4 | 1.148 | -6.108 | 32.8 | 123.7 | --- | --- | -0.93 | 0.733 | 159.2 | 355.1 | -0.6 | 0.689 |
| 4-3830 | 4-4190 | 0.593 | 93.5 | 25.6 | 0.95 | 1.454 | 72.0 | 1.081 | 11.031 | 34.6 | 127.1 | --- | --- | -0.93 | 0.681 | 158.0 | 355.1 | -0.6 | 0.639 |
| 4-3830 | 4-4210 | 0.581 | 91.4 | 25.7 | 0.98 | 1.433 | 71.6 | 1.027 | 33.447 | 36.2 | 130.3 | --- | --- | -0.94 | 0.634 | 156.8 | 355.0 | -0.7 | 0.594 |
| 4-3830 | 4-4230 | 0.571 | 89.5 | 25.8 | 1.00 | 1.415 | 71.3 | 0.981 | 47.802 | 37.7 | 133.3 | --- | --- | -0.94 | 0.592 | 155.4 | 354.9 | -0.7 | 0.553 |
| 4-3830 | 4-4250 | 0.563 | 87.9 | 25.9 | 1.03 | 1.400 | 71.0 | 0.944 | 15.683 | 39.1 | 136.3 | --- | --- | -0.94 | 0.555 | 154.0 | 354.8 | -0.7 | 0.517 |
| 4-3830 | 4-4270 | 0.556 | 86.5 | 25.9 | 1.05 | 1.387 | 70.8 | 0.912 | 9.995 | 40.4 | 139.0 | --- | --- | -0.94 | 0.521 | 152.5 | 354.5 | -0.8 | 0.484 |
| 4-3830 | 4-4290 | 0.550 | 85.2 | 25.9 | 1.08 | 1.376 | 70.6 | 0.886 | 7.638 | 41.4 | 141.7 | --- | --- | -0.95 | 0.490 | 151.0 | 354.3 | -0.8 | 0.454 |
| 4-3830 | 4-4310 | 0.545 | 84.2 | 26.0 | 1.11 | 1.366 | 70.4 | 0.863 | 6.358 | 42.4 | 144.2 | --- | --- | -0.95 | 0.462 | 149.3 | 353.9 | -0.9 | 0.427 |
| 4-3830 | 4-4330 | 0.541 | 83.3 | 26.0 | 1.13 | 1.358 | 70.3 | 0.844 | 5.559 | 43.2 | 146.6 | --- | --- | -0.96 | 0.436 | 147.6 | 353.5 | -0.9 | 0.402 |
| 4-3830 | 4-4350 | 0.537 | 82.5 | 26.0 | 1.16 | 1.350 | 70.2 | 0.828 | 5.017 | 43.9 | 148.8 | --- | --- | -0.97 | 0.413 | 145.8 | 353.0 | -1.0 | 0.380 |
| 4-3830 | 4-4370 | 0.533 | 81.9 | 26.1 | 1.19 | 1.344 | 70.1 | 0.814 | 4.629 | 44.5 | 150.9 | --- | --- | -0.97 | 0.392 | 143.9 | 352.5 | -1.0 | 0.359 |
| 4-3830 | 4-4390 | 0.530 | 81.4 | 26.1 | 1.21 | 1.339 | 70.1 | 0.802 | 4.338 | 45.0 | 152.9 | --- | --- | -0.98 | 0.373 | 141.9 | 351.9 | -1.1 | 0.341 |
| 4-3830 | 4-4410 | 0.527 | 81.0 | 26.2 | 1.24 | 1.334 | 70.1 | 0.791 | 4.115 | 45.4 | 154.8 | --- | --- | -0.99 | 0.355 | 139.9 | 351.2 | -1.2 | 0.324 |
| 4-3830 | 4-4430 | 0.523 | 80.7 | 26.2 | 1.27 | 1.330 | 70.1 | 0.782 | 3.940 | 45.6 | 156.6 | --- | --- | -1.00 | 0.339 | 137.7 | 350.5 | -1.3 | 0.308 |
| 4-3830 | 4-4450 | 0.520 | 80.5 | 26.3 | 1.30 | 1.327 | 70.2 | 0.774 | 3.800 | 45.8 | 158.3 | --- | --- | -1.01 | 0.325 | 135.6 | 349.7 | -1.3 | 0.294 |
| 4-3830 | 4-4470 | 0.517 | 80.3 | 26.4 | 1.33 | 1.324 | 70.2 | 0.767 | 3.686 | 45.9 | 159.9 | --- | --- | -1.02 | 0.312 | 133.3 | 348.8 | -1.4 | 0.281 |
| 4-3830 | 4-4490 | 0.513 | 80.3 | 26.4 | 1.36 | 1.321 | 70.3 | 0.761 | 3.593 | 45.9 | 161.5 | --- | --- | -1.04 | 0.300 | 131.0 | 347.9 | -1.5 | 0.270 |
| 4-3830 | 4-4510 | 0.510 | 80.3 | 26.5 | 1.39 | 1.319 | 70.4 | 0.756 | 3.516 | 45.9 | 162.9 | --- | --- | -1.05 | 0.289 | 128.6 | 346.9 | -1.6 | 0.259 |
| 4-3830 | 4-4530 | 0.507 | 80.4 | 26.6 | 1.42 | 1.317 | 70.6 | 0.751 | 3.453 | 45.7 | 164.3 | --- | --- | -1.06 | 0.280 | 126.2 | 345.9 | -1.7 | 0.249 |
| 4-3830 | 4-4550 | 0.503 | 80.5 | 26.8 | 1.45 | 1.315 | 70.7 | 0.746 | 3.400 | 45.5 | 165.7 | --- | --- | -1.08 | 0.271 | 123.7 | 344.8 | -1.8 | 0.241 |
| 4-3830 | 4-4570 | 0.500 | 80.8 | 26.9 | 1.49 | 1.313 | 70.9 | 0.743 | 3.356 | 45.3 | 166.9 | --- | --- | -1.10 | 0.264 | 121.2 | 343.7 | -1.9 | 0.233 |
| 4-3830 | 4-4590 | 0.496 | 81.0 | 27.0 | 1.52 | 1.312 | 71.1 | 0.739 | 3.319 | 45.0 | 168.2 | --- | --- | -1.12 | 0.257 | 118.7 | 342.6 | -2.0 | 0.226 |
| 4-3830 | 4-4610 | 0.492 | 81.3 | 27.1 | 1.56 | 1.311 | 71.2 | 0.736 | 3.288 | 44.7 | 169.3 | --- | --- | -1.14 | 0.251 | 116.2 | 341.4 | -2.1 | 0.220 |
| 4-3830 | 4-4630 | 0.488 | 81.7 | 27.3 | 1.60 | 1.310 | 71.4 | 0.733 | 3.262 | 44.3 | 170.5 | --- | --- | -1.16 | 0.246 | 113.7 | 340.3 | -2.3 | 0.215 |
| 4-3830 | 4-4650 | 0.484 | 82.1 | 27.4 | 1.63 | 1.309 | 71.7 | 0.731 | 3.241 | 43.8 | 171.5 | --- | --- | -1.18 | 0.242 | 111.2 | 339.2 | -2.4 | 0.210 |
| 4-3830 | 4-4670 | 0.481 | 82.5 | 27.6 | 1.67 | 1.309 | 71.9 | 0.729 | 3.224 | 43.4 | 172.6 | --- | --- | -1.21 | 0.238 | 108.7 | 338.0 | -2.5 | 0.206 |
| 4-3830 | 4-4690 | 0.477 | 83.0 | 27.8 | 1.72 | 1.308 | 72.1 | 0.727 | 3.210 | 42.8 | 173.6 | --- | --- | -1.23 | 0.235 | 106.3 | 336.9 | -2.6 | 0.202 |
| 4-3830 | 4-4710 | 0.472 | 83.5 | 28.0 | 1.76 | 1.308 | 72.4 | 0.725 | 3.199 | 42.3 | 174.5 | --- | --- | -1.26 | 0.233 | 103.9 | 335.9 | -2.7 | 0.199 |
| 4-3830 | 4-4730 | 0.468 | 84.1 | 28.2 | 1.81 | 1.308 | 72.6 | 0.723 | 3.191 | 41.7 | 175.5 | --- | --- | -1.29 | 0.231 | 101.6 | 334.8 | -2.8 | 0.197 |
| 4-3830 | 4-4750 | 0.464 | 84.7 | 28.4 | 1.85 | 1.307 | 72.9 | 0.722 | 3.184 | 41.1 | 176.4 | --- | --- | -1.33 | 0.230 | 99.3 | 333.9 | -2.9 | 0.195 |
| 4-3830 | 4-4770 | 0.460 | 85.3 | 28.6 | 1.91 | 1.307 | 73.2 | 0.720 | 3.180 | 40.5 | 177.2 | --- | --- | -1.36 | 0.229 | 97.0 | 332.9 | -3.0 | 0.193 |
| 4-3830 | 4-4790 | 0.455 | 86.0 | 28.8 | 1.96 | 1.307 | 73.5 | 0.719 | 3.178 | 39.8 | 178.1 | --- | --- | -1.40 | 0.228 | 94.9 | 332.1 | -3.1 | 0.192 |
| 4-3830 | 4-4810 | 0.451 | 86.7 | 29.0 | 2.02 | 1.307 | 73.8 | 0.718 | 3.177 | 39.1 | 178.9 | --- | --- | -1.45 | 0.228 | 92.8 | 331.3 | -3.2 | 0.191 |
| 4-3830 | 4-4830 | 0.447 | 87.5 | 29.3 | 2.08 | 1.307 | 74.1 | 0.717 | 3.177 | 38.4 | 179.7 | --- | --- | -1.49 | 0.228 | 90.7 | 330.5 | -3.3 | 0.190 |
| 4-3830 | 4-4850 | 0.442 | 88.3 | 29.5 | 2.14 | 1.307 | 74.4 | 0.716 | 3.179 | 37.7 | 180.5 | --- | 5.455 | -1.55 | 0.228 | 88.8 | 329.9 | -3.4 | 0.190 |
| 4-3830 | 4-4870 | 0.438 | 89.1 | 29.8 | 2.21 | 1.307 | 74.7 | 0.715 | 3.181 | 36.9 | 181.2 | --- | 5.457 | -1.60 | 0.229 | 86.9 | 329.3 | -3.5 | 0.190 |
| 4-3830 | 4-4890 | 0.433 | 90.0 | 30.1 | 2.29 | 1.307 | 75.0 | 0.714 | 3.185 | 36.1 | 182.0 | --- | 5.461 | -1.66 | 0.230 | 85.1 | 328.7 | -3.6 | 0.190 |
| 4-3830 | 4-4910 | 0.429 | 90.9 | 30.4 | 2.37 | 1.308 | 75.4 | 0.714 | 3.190 | 35.3 | 182.7 | --- | 5.467 | -1.73 | 0.231 | 83.4 | 328.3 | -3.7 | 0.190 |
| 4-3830 | 4-4930 | 0.424 | 91.9 | 30.8 | 2.46 | 1.308 | 75.7 | 0.713 | 3.195 | 34.5 | 183.4 | --- | 5.474 | -1.81 | 0.232 | 81.7 | 327.9 | -3.8 | 0.191 |
| 4-3830 | 4-4950 | 0.420 | 92.9 | 31.2 | 2.55 | 1.308 | 76.1 | 0.713 | 3.201 | 33.7 | 184.0 | --- | 5.483 | -1.89 | 0.234 | 80.1 | 327.6 | -3.9 | 0.191 |
| 4-3830 | 4-4970 | 0.416 | 93.9 | 31.6 | 2.66 | 1.308 | 76.4 | 0.712 | 3.208 | 32.8 | 184.7 | --- | 5.494 | -1.98 | 0.235 | 78.6 | 327.4 | -4.0 | 0.192 |
| 4-3830 | 4-4990 | 0.411 | 95.0 | 32.0 | 2.78 | 1.308 | 76.8 | 0.712 | 3.216 | 32.0 | 185.4 | --- | 5.506 | -2.09 | 0.237 | 77.1 | 327.3 | -4.2 | 0.193 |
| 4-3830 | 4-5010 | 0.407 | 96.2 | 32.5 | 2.91 | 1.309 | 77.1 | 0.712 | 3.224 | 31.1 | 186.0 | --- | 5.518 | -2.20 | 0.239 | 75.7 | 327.2 | -4.3 | 0.195 |
| 4-3830 | 4-5030 | 0.403 | 97.3 | 33.0 | 3.05 | 1.309 | 77.5 | 0.711 | 3.232 | 30.2 | 186.6 | --- | 5.532 | -2.33 | 0.241 | 74.4 | 327.2 | -4.4 | 0.196 |
| 4-3830 | 4-5050 | 0.399 | 98.6 | 33.6 | 3.22 | 1.309 | 77.9 | 0.711 | 3.241 | 29.3 | 187.2 | --- | 5.546 | -2.49 | 0.243 | 73.1 | 327.2 | -4.6 | 0.197 |
| 4-3830 | 4-5070 | 0.395 | 99.9 | 34.3 | 3.40 | 1.310 | 78.3 | 0.711 | 3.251 | 28.4 | 187.8 | --- | 5.562 | -2.66 | 0.245 | 71.9 | 327.3 | -4.8 | 0.199 |
| 4-3830 | 4-5090 | 0.391 | 101.3 | 35.1 | 3.62 | 1.310 | 78.6 | 0.711 | 3.260 | 27.4 | 188.4 | --- | 5.578 | -2.86 | 0.247 | 70.7 | 327.5 | -5.0 | 0.200 |
| 4-3830 | 4-5110 | 0.387 | 102.7 | 35.9 | 3.87 | 1.310 | 79.0 | 0.711 | 3.270 | 26.5 | 189.0 | --- | 5.595 | -3.10 | 0.250 | 69.6 | 327.7 | -5.2 | 0.202 |
| 4-3830 | 4-5130 | 0.384 | 104.2 | 37.0 | 4.17 | 1.311 | 79.4 | 0.711 | 3.281 | 25.5 | 189.5 | --- | 5.613 | -3.39 | 0.252 | 68.5 | 328.0 | -5.5 | 0.204 |
| 4-3830 | 4-5150 | 0.382 | 105.8 | 38.2 | 4.53 | 1.311 | 79.8 | 0.711 | 3.292 | 24.5 | 190.1 | --- | 5.631 | -3.74 | 0.254 | 67.5 | 328.4 | -5.9 | 0.206 |
| 4-3830 | 4-5170 | 0.380 | 107.6 | 39.8 | 4.98 | 1.312 | 80.2 | 0.711 | 3.302 | 23.5 | 190.6 | --- | 5.651 | -4.17 | 0.257 | 66.5 | 328.8 | -6.3 | 0.208 |
| 4-3830 | 4-5190 | 0.379 | 109.4 | 41.7 | 5.54 | 1.312 | 80.7 | 0.711 | 3.314 | 22.5 | 191.1 | --- | 5.670 | -4.72 | 0.259 | 65.6 | 329.3 | -6.9 | 0.210 |
| 4-3830 | 4-5210 | 0.379 | 111.5 | 44.2 | 6.27 | 1.312 | 81.1 | 0.711 | 3.325 | 21.5 | 191.6 | --- | 5.690 | -5.44 | 0.262 | 64.7 | 329.8 | -7.6 | 0.212 |
| 4-3830 | 4-5230 | 0.382 | 113.8 | 47.4 | 7.27 | 1.313 | 81.5 | 0.712 | 3.337 | 20.5 | 192.1 | --- | 5.711 | -6.43 | 0.264 | 63.8 | 330.4 | -8.6 | 0.215 |
| 4-3830 | 4-5250 | 0.391 | 116.6 | 52.0 | 8.71 | 1.313 | 81.9 | 0.712 | 3.349 | 19.5 | 192.6 | --- | 5.732 | -7.85 | 0.267 | 63.0 | 331.2 | -10.1 | 0.218 |
| 4-3830 | 4-5270 | 0.410 | 120.3 | 58.7 | 10.97 | 1.314 | 82.3 | 0.712 | 3.361 | 18.5 | 193.1 | --- | 5.754 | -10.10 | 0.269 | 62.2 | 332.1 | -12.3 | 0.223 |
| 4-3830 | 4-5290 | 0.455 | 126.7 | 69.0 | 15.02 | 1.314 | 82.8 | 0.712 | 3.373 | 17.4 | 193.6 | --- | 5.776 | -14.14 | 0.272 | 61.4 | 333.4 | -16.0 | 0.231 |
| 4-3830 | 4-5310 | 0.589 | 169.6 | 85.3 | 24.21 | 1.314 | 83.2 | 0.713 | 3.385 | 16.4 | 194.1 | --- | 5.798 | -23.32 | 0.274 | 60.6 | 336.1 | -23.1 | 0.254 |
| 4-3830 | 4-5330 | 1.151 | 305.5 | 59.3 | 57.22 | 1.315 | 83.5 | 0.713 | 3.397 | 15.7 | 194.6 | --- | 5.821 | -56.31 | 0.277 | 59.9 | 345.9 | -33.1 | 0.373 |
| 4-3830 | 4-5350 | 0.929 | 71.4 | -60.8 | -44.36 | 1.315 | 84.3 | 0.713 | 3.410 | 13.7 | 195.0 | --- | 5.843 | 45.28 | 0.279 | 59.3 | 340.3 | 30.0 | 0.332 |
| 4-3830 | 4-5370 | 0.513 | 104.4 | -37.3 | -19.75 | 1.316 | 84.7 | 0.714 | 3.422 | 12.8 | 195.5 | --- | 5.866 | 20.68 | 0.282 | 58.6 | 335.8 | 18.4 | 0.253 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3830 | 4-5390 | 0.406 | 113.0 | -21.6 | -12.12 | 1.316 | 85.1 | 0.715 | 3.435 | 11.8 | 195.9 | --- | 5.890 | 13.06 | 0.285 | 58.0 | 335.6 | 11.9 | 0.239 |
| 4-3830 | 4-5410 | 0.365 | 117.7 | -12.0 | -8.55 | 1.316 | 85.6 | 0.715 | 3.448 | 10.7 | 196.3 | --- | 5.914 | 9.51 | 0.287 | 57.3 | 336.2 | 8.5 | 0.236 |
| 4-3830 | 4-5430 | 0.345 | 121.3 | -5.8 | -6.50 | 1.317 | 86.0 | 0.716 | 3.461 | 9.5 | 196.7 | --- | 5.939 | 7.47 | 0.290 | 56.7 | 337.0 | 6.5 | 0.236 |
| 4-3840 | 4-4200 | 0.680 | 90.8 | 25.3 | 0.97 | 1.444 | 65.5 | 1.047 | 17.388 | 47.9 | 131.0 | --- | --- | -0.76 | 0.656 | 158.4 | 354.2 | -0.6 | 0.622 |
| 4-3840 | 4-4240 | 0.658 | 87.8 | 25.4 | 1.01 | 1.407 | 65.1 | 0.962 | 21.217 | 50.9 | 137.2 | --- | --- | -0.76 | 0.570 | 155.8 | 353.8 | -0.7 | 0.539 |
| 4-3840 | 4-4260 | 0.650 | 86.6 | 25.4 | 1.03 | 1.393 | 64.9 | 0.930 | 11.457 | 52.2 | 140.0 | --- | --- | -0.76 | 0.533 | 154.3 | 353.6 | -0.7 | 0.504 |
| 4-3840 | 4-4280 | 0.643 | 85.6 | 25.4 | 1.05 | 1.381 | 64.8 | 0.903 | 8.248 | 53.3 | 142.7 | --- | --- | -0.76 | 0.500 | 152.8 | 353.2 | -0.7 | 0.472 |
| 4-3840 | 4-4300 | 0.637 | 84.7 | 25.4 | 1.07 | 1.370 | 64.7 | 0.881 | 6.663 | 54.3 | 145.2 | --- | --- | -0.76 | 0.470 | 151.2 | 352.8 | -0.8 | 0.444 |
| 4-3840 | 4-4320 | 0.631 | 84.0 | 25.5 | 1.09 | 1.361 | 64.7 | 0.862 | 5.724 | 55.1 | 147.5 | --- | --- | -0.76 | 0.442 | 149.5 | 352.4 | -0.8 | 0.418 |
| 4-3840 | 4-4340 | 0.626 | 83.4 | 25.5 | 1.11 | 1.353 | 64.6 | 0.846 | 5.109 | 55.8 | 149.8 | --- | --- | -0.76 | 0.418 | 147.7 | 351.9 | -0.9 | 0.394 |
| 4-3840 | 4-4360 | 0.622 | 82.9 | 25.5 | 1.14 | 1.347 | 64.6 | 0.832 | 4.677 | 56.3 | 151.9 | --- | --- | -0.76 | 0.395 | 145.8 | 351.3 | -0.9 | 0.373 |
| 4-3840 | 4-4380 | 0.617 | 82.5 | 25.5 | 1.16 | 1.341 | 64.7 | 0.820 | 4.360 | 56.8 | 153.8 | --- | --- | -0.77 | 0.374 | 143.8 | 350.7 | -1.0 | 0.353 |
| 4-3840 | 4-4400 | 0.613 | 82.2 | 25.6 | 1.18 | 1.336 | 64.7 | 0.809 | 4.120 | 57.1 | 155.7 | --- | --- | -0.77 | 0.356 | 141.8 | 350.0 | -1.0 | 0.335 |
| 4-3840 | 4-4420 | 0.609 | 82.0 | 25.6 | 1.20 | 1.331 | 64.8 | 0.800 | 3.933 | 57.3 | 157.5 | --- | --- | -0.77 | 0.339 | 139.7 | 349.2 | -1.1 | 0.319 |
| 4-3840 | 4-4440 | 0.604 | 81.9 | 25.7 | 1.22 | 1.328 | 64.9 | 0.793 | 3.785 | 57.5 | 159.1 | --- | --- | -0.78 | 0.323 | 137.4 | 348.4 | -1.2 | 0.304 |
| 4-3840 | 4-4460 | 0.600 | 81.8 | 25.7 | 1.24 | 1.324 | 65.0 | 0.786 | 3.666 | 57.5 | 160.7 | --- | --- | -0.78 | 0.309 | 135.1 | 347.5 | -1.3 | 0.291 |
| 4-3840 | 4-4480 | 0.596 | 81.8 | 25.8 | 1.26 | 1.322 | 65.1 | 0.780 | 3.569 | 57.5 | 162.2 | --- | --- | -0.79 | 0.297 | 132.8 | 346.5 | -1.3 | 0.279 |
| 4-3840 | 4-4500 | 0.592 | 81.9 | 25.8 | 1.28 | 1.319 | 65.3 | 0.774 | 3.489 | 57.4 | 163.6 | --- | --- | -0.79 | 0.286 | 130.3 | 345.6 | -1.4 | 0.268 |
| 4-3840 | 4-4520 | 0.588 | 82.0 | 25.9 | 1.30 | 1.317 | 65.5 | 0.769 | 3.424 | 57.2 | 164.9 | --- | --- | -0.80 | 0.275 | 127.8 | 344.5 | -1.5 | 0.258 |
| 4-3840 | 4-4540 | 0.583 | 82.2 | 26.0 | 1.33 | 1.315 | 65.7 | 0.765 | 3.370 | 57.0 | 166.2 | --- | --- | 0.80 | 0.266 | 125.3 | 343.5 | -1.6 | 0.249 |
| 4-3840 | 4-4560 | 0.579 | 82.4 | 26.1 | 1.35 | 1.314 | 65.9 | 0.761 | 3.324 | 56.7 | 167.5 | --- | --- | -0.81 | 0.258 | 122.7 | 342.4 | -1.7 | 0.241 |
| 4-3840 | 4-4580 | 0.575 | 82.6 | 26.1 | 1.37 | 1.313 | 66.1 | 0.757 | 3.287 | 56.3 | 168.6 | --- | --- | -0.82 | 0.251 | 120.1 | 341.3 | -1.7 | 0.234 |
| 4-3840 | 4-4600 | 0.570 | 82.9 | 26.2 | 1.40 | 1.311 | 66.3 | 0.754 | 3.256 | 55.9 | 169.7 | --- | --- | -0.83 | 0.245 | 117.5 | 340.2 | -1.8 | 0.228 |
| 4-3840 | 4-4620 | 0.565 | 83.3 | 26.3 | 1.42 | 1.311 | 66.5 | 0.751 | 3.230 | 55.5 | 170.8 | --- | --- | -0.84 | 0.240 | 114.9 | 339.0 | -1.9 | 0.222 |
| 4-3840 | 4-4640 | 0.561 | 83.6 | 26.4 | 1.45 | 1.310 | 66.8 | 0.749 | 3.209 | 55.0 | 171.9 | --- | --- | -0.85 | 0.236 | 112.3 | 337.9 | -2.0 | 0.217 |
| 4-3840 | 4-4660 | 0.556 | 84.0 | 26.5 | 1.47 | 1.309 | 67.0 | 0.746 | 3.192 | 54.5 | 172.9 | --- | --- | -0.86 | 0.232 | 109.7 | 336.8 | -2.1 | 0.213 |
| 4-3840 | 4-4680 | 0.551 | 84.5 | 26.6 | 1.50 | 1.309 | 67.3 | 0.744 | 3.178 | 53.9 | 173.8 | --- | --- | -0.88 | 0.229 | 107.1 | 335.8 | -2.2 | 0.209 |
| 4-3840 | 4-4700 | 0.546 | 84.9 | 26.7 | 1.53 | 1.308 | 67.6 | 0.742 | 3.168 | 53.4 | 174.7 | --- | --- | -0.89 | 0.226 | 104.6 | 334.8 | -2.3 | 0.206 |
| 4-3840 | 4-4720 | 0.542 | 85.4 | 26.9 | 1.55 | 1.308 | 67.9 | 0.740 | 3.160 | 52.7 | 175.6 | --- | --- | -0.90 | 0.224 | 102.1 | 333.8 | -2.3 | 0.204 |
| 4-3840 | 4-4740 | 0.537 | 86.0 | 27.0 | 1.58 | 1.308 | 68.2 | 0.738 | 3.154 | 52.1 | 176.5 | --- | --- | -0.92 | 0.223 | 99.7 | 332.8 | -2.4 | 0.201 |
| 4-3840 | 4-4760 | 0.531 | 86.5 | 27.1 | 1.61 | 1.308 | 68.5 | 0.737 | 3.150 | 51.4 | 177.3 | --- | --- | -0.94 | 0.222 | 97.4 | 332.0 | -2.5 | 0.200 |
| 4-3840 | 4-4780 | 0.526 | 87.1 | 27.2 | 1.64 | 1.307 | 68.8 | 0.735 | 3.148 | 50.7 | 178.1 | --- | --- | -0.96 | 0.221 | 95.1 | 331.1 | -2.5 | 0.198 |
| 4-3840 | 4-4800 | 0.521 | 87.7 | 27.4 | 1.68 | 1.307 | 69.1 | 0.734 | 3.147 | 50.0 | 178.9 | --- | --- | -0.98 | 0.221 | 92.9 | 330.4 | -2.6 | 0.197 |
| 4-3840 | 4-4820 | 0.516 | 88.4 | 27.5 | 1.71 | 1.307 | 69.4 | 0.733 | 3.148 | 49.3 | 179.7 | --- | --- | -1.00 | 0.221 | 90.8 | 329.7 | -2.7 | 0.196 |
| 4-3840 | 4-4840 | 0.511 | 89.1 | 27.6 | 1.74 | 1.308 | 69.8 | 0.731 | 3.151 | 48.5 | 180.4 | --- | 5.455 | -1.02 | 0.222 | 88.8 | 329.1 | -2.7 | 0.196 |
| 4-3840 | 4-4860 | 0.505 | 89.8 | 27.8 | 1.78 | 1.308 | 70.1 | 0.730 | 3.154 | 47.7 | 181.2 | --- | 5.457 | -1.05 | 0.223 | 86.8 | 328.5 | -2.8 | 0.196 |
| 4-3840 | 4-4880 | 0.500 | 90.5 | 27.9 | 1.82 | 1.308 | 70.4 | 0.729 | 3.158 | 46.9 | 181.9 | --- | 5.461 | -1.07 | 0.224 | 85.0 | 328.0 | -2.8 | 0.196 |
| 4-3840 | 4-4900 | 0.495 | 91.3 | 28.1 | 1.86 | 1.308 | 70.8 | 0.728 | 3.163 | 46.1 | 182.6 | --- | 5.467 | -1.10 | 0.225 | 83.2 | 327.6 | -2.9 | 0.196 |
| 4-3840 | 4-4920 | 0.489 | 92.1 | 28.3 | 1.91 | 1.308 | 71.1 | 0.727 | 3.169 | 45.2 | 183.2 | --- | 5.475 | -1.14 | 0.227 | 81.5 | 327.3 | -3.0 | 0.196 |
| 4-3840 | 4-4940 | 0.484 | 92.9 | 28.4 | 1.95 | 1.309 | 71.5 | 0.727 | 3.176 | 44.4 | 183.9 | --- | 5.484 | -1.17 | 0.228 | 79.8 | 327.0 | -3.0 | 0.197 |
| 4-3840 | 4-4960 | 0.478 | 93.7 | 28.6 | 2.00 | 1.309 | 71.9 | 0.726 | 3.183 | 43.5 | 184.5 | --- | 5.494 | -1.21 | 0.230 | 78.3 | 326.8 | -3.1 | 0.198 |
| 4-3840 | 4-4980 | 0.473 | 94.6 | 28.8 | 2.05 | 1.309 | 72.2 | 0.725 | 3.191 | 42.6 | 185.2 | --- | 5.506 | -1.25 | 0.232 | 76.8 | 326.7 | -3.1 | 0.198 |
| 4-3840 | 4-5000 | 0.468 | 95.5 | 29.0 | 2.11 | 1.309 | 72.6 | 0.725 | 3.200 | 41.7 | 185.8 | --- | 5.518 | -1.29 | 0.234 | 75.4 | 326.6 | -3.2 | 0.199 |
| 4-3840 | 4-5020 | 0.462 | 96.5 | 29.2 | 2.17 | 1.310 | 73.0 | 0.724 | 3.209 | 40.8 | 186.4 | --- | 5.532 | -1.34 | 0.236 | 74.0 | 326.6 | -3.2 | 0.201 |
| 4-3840 | 4-5040 | 0.457 | 97.5 | 29.4 | 2.23 | 1.310 | 73.4 | 0.723 | 3.218 | 39.9 | 187.0 | --- | 5.546 | -1.40 | 0.238 | 72.7 | 326.7 | -3.3 | 0.202 |
| 4-3840 | 4-5060 | 0.451 | 98.5 | 29.7 | 2.31 | 1.310 | 73.8 | 0.723 | 3.228 | 38.9 | 187.5 | --- | 5.562 | -1.46 | 0.241 | 71.5 | 326.8 | -3.3 | 0.203 |
| 4-3840 | 4-5080 | 0.446 | 99.6 | 29.9 | 2.38 | 1.311 | 74.2 | 0.722 | 3.239 | 38.0 | 188.1 | --- | 5.578 | -1.52 | 0.243 | 70.3 | 327.0 | -3.4 | 0.204 |
| 4-3840 | 4-5100 | 0.440 | 100.7 | 30.2 | 2.47 | 1.311 | 74.6 | 0.722 | 3.249 | 37.0 | 188.7 | --- | 5.595 | -1.60 | 0.246 | 69.2 | 327.2 | -3.4 | 0.206 |
| 4-3840 | 4-5120 | 0.435 | 101.8 | 30.5 | 2.56 | 1.312 | 75.0 | 0.722 | 3.260 | 36.1 | 189.2 | --- | 5.613 | -1.68 | 0.248 | 68.1 | 327.5 | -3.5 | 0.207 |
| 4-3840 | 4-5140 | 0.430 | 103.0 | 30.8 | 2.67 | 1.312 | 75.4 | 0.721 | 3.271 | 35.1 | 189.7 | --- | 5.631 | -1.78 | 0.251 | 67.1 | 327.8 | -3.6 | 0.209 |
| 4-3840 | 4-5160 | 0.425 | 104.2 | 31.2 | 2.78 | 1.312 | 75.8 | 0.721 | 3.283 | 34.1 | 190.3 | --- | 5.650 | -1.88 | 0.253 | 66.1 | 328.2 | -3.7 | 0.210 |
| 4-3840 | 4-5180 | 0.420 | 105.5 | 31.6 | 2.92 | 1.313 | 76.2 | 0.721 | 3.294 | 33.1 | 190.8 | --- | 5.669 | -2.00 | 0.256 | 65.2 | 328.7 | -3.8 | 0.212 |
| 4-3840 | 4-5200 | 0.415 | 106.9 | 32.1 | 3.07 | 1.313 | 76.6 | 0.721 | 3.306 | 32.0 | 191.3 | --- | 5.689 | -2.15 | 0.258 | 64.3 | 329.2 | -3.9 | 0.214 |
| 4-3840 | 4-5220 | 0.410 | 108.3 | 32.6 | 3.24 | 1.314 | 77.1 | 0.720 | 3.318 | 31.0 | 191.8 | --- | 5.709 | -2.31 | 0.261 | 63.4 | 329.7 | -4.1 | 0.216 |
| 4-3840 | 4-5240 | 0.405 | 109.7 | 33.3 | 3.45 | 1.314 | 77.5 | 0.720 | 3.331 | 30.0 | 192.3 | --- | 5.730 | -2.50 | 0.264 | 62.6 | 330.3 | -4.2 | 0.217 |
| 4-3840 | 4-5260 | 0.401 | 111.3 | 34.0 | 3.69 | 1.315 | 77.9 | 0.720 | 3.343 | 28.9 | 192.8 | --- | 5.751 | -2.73 | 0.266 | 61.8 | 330.9 | -4.4 | 0.219 |
| 4-3840 | 4-5280 | 0.397 | 112.9 | 35.0 | 3.98 | 1.315 | 78.4 | 0.720 | 3.356 | 27.9 | 193.3 | --- | 5.773 | -3.01 | 0.269 | 61.1 | 331.5 | -4.7 | 0.221 |
| 4-3840 | 4-5300 | 0.393 | 114.6 | 36.1 | 4.34 | 1.315 | 78.8 | 0.720 | 3.368 | 26.8 | 193.7 | --- | 5.795 | -3.36 | 0.271 | 60.3 | 332.2 | -5.0 | 0.223 |
| 4-3840 | 4-5320 | 0.390 | 116.5 | 37.5 | 4.79 | 1.316 | 79.3 | 0.720 | 3.381 | 25.7 | 194.2 | --- | 5.817 | -3.80 | 0.274 | 59.7 | 333.0 | -5.4 | 0.225 |
| 4-3840 | 4-5340 | 0.389 | 118.5 | 39.4 | 5.38 | 1.316 | 79.7 | 0.720 | 3.394 | 24.6 | 194.7 | --- | 5.839 | -4.39 | 0.277 | 59.0 | 333.8 | -5.9 | 0.227 |
| 4-3840 | 4-5360 | 0.389 | 120.8 | 42.0 | 6.19 | 1.317 | 80.2 | 0.721 | 3.407 | 23.5 | 195.1 | --- | 5.862 | -5.18 | 0.279 | 58.3 | 334.6 | -6.7 | 0.230 |
| 4-3840 | 4-5380 | 0.393 | 123.6 | 45.6 | 7.36 | 1.317 | 80.6 | 0.721 | 3.420 | 22.4 | 195.5 | --- | 5.886 | -6.34 | 0.282 | 57.7 | 335.5 | -7.8 | 0.232 |
| 4-3840 | 4-5400 | 0.404 | 127.1 | 51.2 | 9.20 | 1.318 | 81.1 | 0.721 | 3.434 | 21.3 | 196.0 | --- | 5.909 | -8.17 | 0.285 | 57.1 | 336.6 | -9.5 | 0.236 |
| 4-3840 | 4-5420 | 0.435 | 132.6 | 60.2 | 12.53 | 1.318 | 81.5 | 0.721 | 3.447 | 20.2 | 196.4 | --- | 5.933 | -11.49 | 0.287 | 56.5 | 338.0 | -12.5 | 0.242 |
| 4-3840 | 4-5440 | 0.536 | 149.2 | 76.5 | 20.28 | 1.318 | 82.0 | 0.721 | 3.460 | 19.1 | 196.8 | --- | 5.957 | -19.24 | 0.290 | 56.0 | 340.4 | -18.9 | 0.259 |
| 4-3850 | 4-4210 | 0.781 | 90.2 | 25.0 | 1.02 | 1.433 | 58.7 | 1.018 | 40.839 | 62.0 | 135.7 | --- | --- | -0.58 | 0.630 | 159.1 | 352.9 | -0.6 | 0.607 |
| 4-3850 | 4-4230 | 0.769 | 89.1 | 25.1 | 1.03 | 1.415 | 58.7 | 0.979 | 34.606 | 63.4 | 138.8 | --- | --- | -0.58 | 0.586 | 157.8 | 352.6 | -0.6 | 0.565 |
| 4-3850 | 4-4250 | 0.758 | 88.1 | 25.1 | 1.05 | 1.399 | 58.6 | 0.948 | 13.596 | 64.7 | 141.6 | --- | --- | -0.58 | 0.546 | 156.4 | 352.3 | -0.6 | 0.527 |
| 4-3850 | 4-4270 | 0.749 | 87.3 | 25.1 | 1.06 | 1.385 | 58.6 | 0.922 | 9.003 | 65.8 | 144.3 | --- | --- | -0.57 | 0.510 | 154.9 | 351.9 | -0.7 | 0.493 |
| 4-3850 | 4-4290 | 0.741 | 86.6 | 25.1 | 1.08 | 1.374 | 58.6 | 0.900 | 7.004 | 66.8 | 146.8 | --- | --- | -0.57 | 0.478 | 153.3 | 351.5 | -0.7 | 0.463 |
| 4-3850 | 4-4310 | 0.733 | 86.0 | 25.1 | 1.10 | 1.364 | 58.6 | 0.881 | 5.894 | 67.5 | 149.1 | --- | --- | -0.57 | 0.448 | 151.7 | 351.0 | -0.8 | 0.435 |
| 4-3850 | 4-4330 | 0.727 | 85.6 | 25.2 | 1.11 | 1.356 | 58.7 | 0.866 | 5.194 | 68.2 | 151.3 | --- | --- | -0.56 | 0.422 | 149.9 | 350.5 | -0.8 | 0.410 |
| 4-3850 | 4-4350 | 0.720 | 85.2 | 25.2 | 1.13 | 1.348 | 58.8 | 0.852 | 4.715 | 68.7 | 153.3 | --- | --- | -0.56 | 0.397 | 148.1 | 349.9 | -0.8 | 0.388 |
| 4-3850 | 4-4370 | 0.714 | 84.9 | 25.2 | 1.14 | 1.342 | 58.9 | 0.841 | 4.371 | 69.0 | 155.2 | --- | --- | -0.56 | 0.375 | 146.1 | 349.2 | -0.9 | 0.367 |
| 4-3850 | 4-4390 | 0.709 | 84.8 | 25.2 | 1.16 | 1.337 | 59.0 | 0.831 | 4.113 | 69.3 | 157.0 | --- | --- | -0.56 | 0.355 | 144.1 | 348.4 | -1.0 | 0.349 |
| 4-3850 | 4-4410 | 0.703 | 84.6 | 25.3 | 1.17 | 1.332 | 59.1 | 0.822 | 3.915 | 69.4 | 158.7 | --- | --- | -0.56 | 0.337 | 141.9 | 347.6 | -1.0 | 0.332 |
| 4-3850 | 4-4430 | 0.698 | 84.6 | 25.3 | 1.19 | 1.328 | 59.3 | 0.814 | 3.759 | 69.5 | 160.3 | --- | --- | -0.56 | 0.321 | 139.7 | 346.8 | -1.1 | 0.317 |
| 4-3850 | 4-4450 | 0.693 | 84.6 | 25.3 | 1.20 | 1.325 | 59.5 | 0.808 | 3.635 | 69.5 | 161.8 | --- | --- | -0.56 | 0.306 | 137.3 | 345.9 | -1.1 | 0.303 |
| 4-3850 | 4-4470 | 0.687 | 84.7 | 25.4 | 1.22 | 1.322 | 59.7 | 0.802 | 3.534 | 69.4 | 163.2 | --- | --- | -0.56 | 0.292 | 134.9 | 344.9 | -1.2 | 0.290 |
| 4-3850 | 4-4490 | 0.682 | 84.8 | 25.4 | 1.23 | 1.319 | 59.9 | 0.796 | 3.453 | 69.2 | 164.5 | --- | --- | -0.56 | 0.280 | 132.4 | 343.9 | -1.3 | 0.279 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3850 | 4-4510 | 0.677 | 84.9 | 25.5 | 1.25 | 1.317 | 60.1 | 0.791 | 3.386 | 68.9 | 165.8 | --- | --- | -0.56 | 0.270 | 129.8 | 342.9 | -1.3 | 0.269 |
| 4-3850 | 4-4530 | 0.672 | 85.1 | 25.5 | 1.26 | 1.315 | 60.3 | 0.787 | 3.330 | 68.6 | 167.0 | --- | --- | -0.57 | 0.260 | 127.2 | 341.9 | -1.4 | 0.259 |
| 4-3850 | 4-4550 | 0.666 | 85.3 | 25.6 | 1.28 | 1.314 | 60.6 | 0.783 | 3.285 | 68.3 | 168.2 | --- | --- | -0.57 | 0.251 | 124.5 | 340.8 | -1.5 | 0.251 |
| 4-3850 | 4-4570 | 0.661 | 85.6 | 25.6 | 1.29 | 1.312 | 60.8 | 0.779 | 3.247 | 67.9 | 169.3 | --- | --- | -0.57 | 0.244 | 121.8 | 339.7 | -1.6 | 0.244 |
| 4-3850 | 4-4590 | 0.656 | 85.9 | 25.7 | 1.31 | 1.311 | 61.1 | 0.776 | 3.216 | 67.4 | 170.3 | --- | --- | -0.58 | 0.238 | 119.0 | 338.6 | -1.6 | 0.237 |
| 4-3850 | 4-4610 | 0.650 | 86.2 | 25.7 | 1.32 | 1.310 | 61.4 | 0.773 | 3.190 | 66.9 | 171.4 | --- | --- | -0.58 | 0.232 | 116.2 | 337.5 | -1.7 | 0.232 |
| 4-3850 | 4-4630 | 0.645 | 86.6 | 25.8 | 1.34 | 1.309 | 61.7 | 0.770 | 3.170 | 66.4 | 172.3 | --- | --- | -0.58 | 0.227 | 113.5 | 336.5 | -1.8 | 0.227 |
| 4-3850 | 4-4650 | 0.639 | 87.0 | 25.9 | 1.36 | 1.309 | 62.0 | 0.768 | 3.153 | 65.8 | 173.3 | --- | --- | -0.59 | 0.223 | 110.7 | 335.4 | -1.8 | 0.222 |
| 4-3850 | 4-4670 | 0.634 | 87.4 | 25.9 | 1.37 | 1.308 | 62.3 | 0.765 | 3.140 | 65.2 | 174.2 | --- | --- | -0.59 | 0.220 | 108.0 | 334.4 | -1.9 | 0.218 |
| 4-3850 | 4-4690 | 0.628 | 87.8 | 26.0 | 1.39 | 1.308 | 62.6 | 0.763 | 3.129 | 64.6 | 175.1 | --- | --- | -0.60 | 0.218 | 105.3 | 333.4 | -2.0 | 0.215 |
| 4-3850 | 4-4710 | 0.622 | 88.3 | 26.1 | 1.41 | 1.308 | 62.9 | 0.761 | 3.122 | 63.9 | 175.9 | --- | --- | -0.60 | 0.216 | 102.7 | 332.5 | -2.0 | 0.212 |
| 4-3850 | 4-4730 | 0.617 | 88.8 | 26.1 | 1.42 | 1.307 | 63.2 | 0.759 | 3.117 | 63.2 | 176.7 | --- | --- | -0.61 | 0.214 | 100.2 | 331.6 | -2.1 | 0.210 |
| 4-3850 | 4-4750 | 0.611 | 89.3 | 26.2 | 1.44 | 1.307 | 63.6 | 0.757 | 3.113 | 62.5 | 177.5 | --- | --- | -0.62 | 0.213 | 97.7 | 330.8 | -2.1 | 0.208 |
| 4-3850 | 4-4770 | 0.605 | 89.8 | 26.3 | 1.46 | 1.307 | 63.9 | 0.755 | 3.112 | 61.7 | 178.3 | --- | --- | -0.63 | 0.213 | 95.3 | 330.0 | -2.2 | 0.207 |
| 4-3850 | 4-4790 | 0.599 | 90.4 | 26.3 | 1.48 | 1.307 | 64.2 | 0.753 | 3.112 | 61.0 | 179.0 | --- | --- | -0.64 | 0.213 | 93.0 | 329.3 | -2.2 | 0.205 |
| 4-3850 | 4-4810 | 0.593 | 90.9 | 26.4 | 1.50 | 1.307 | 64.6 | 0.752 | 3.114 | 60.2 | 179.8 | --- | --- | -0.64 | 0.213 | 90.7 | 328.7 | -2.3 | 0.204 |
| 4-3850 | 4-4830 | 0.587 | 91.5 | 26.5 | 1.52 | 1.307 | 64.9 | 0.750 | 3.116 | 59.4 | 180.5 | --- | 5.455 | -0.65 | 0.214 | 88.6 | 328.1 | -2.3 | 0.204 |
| 4-3850 | 4-4850 | 0.581 | 92.2 | 26.6 | 1.54 | 1.308 | 65.3 | 0.749 | 3.120 | 58.6 | 181.2 | --- | 5.458 | -0.67 | 0.215 | 86.5 | 327.6 | -2.3 | 0.203 |
| 4-3850 | 4-4870 | 0.575 | 92.8 | 26.7 | 1.56 | 1.308 | 65.7 | 0.748 | 3.125 | 57.7 | 181.8 | --- | 5.462 | -0.68 | 0.216 | 84.6 | 327.1 | -2.4 | 0.203 |
| 4-3850 | 4-4890 | 0.569 | 93.5 | 26.7 | 1.58 | 1.308 | 66.0 | 0.746 | 3.131 | 56.9 | 182.5 | --- | 5.468 | -0.69 | 0.218 | 82.7 | 326.8 | -2.4 | 0.203 |
| 4-3850 | 4-4910 | 0.563 | 94.1 | 26.8 | 1.60 | 1.308 | 66.4 | 0.745 | 3.138 | 56.0 | 183.1 | --- | 5.476 | -0.70 | 0.219 | 80.9 | 326.5 | -2.4 | 0.204 |
| 4-3850 | 4-4930 | 0.557 | 94.8 | 26.9 | 1.63 | 1.309 | 66.8 | 0.744 | 3.145 | 55.1 | 183.8 | --- | 5.485 | -0.72 | 0.221 | 79.3 | 326.3 | -2.5 | 0.204 |
| 4-3850 | 4-4950 | 0.550 | 95.6 | 27.0 | 1.65 | 1.309 | 67.2 | 0.743 | 3.153 | 54.2 | 184.4 | --- | 5.496 | -0.73 | 0.223 | 77.6 | 326.1 | -2.5 | 0.205 |
| 4-3850 | 4-4970 | 0.544 | 96.3 | 27.1 | 1.68 | 1.309 | 67.6 | 0.742 | 3.162 | 53.3 | 185.0 | --- | 5.507 | -0.75 | 0.225 | 76.1 | 326.0 | -2.5 | 0.205 |
| 4-3850 | 4-4990 | 0.538 | 97.1 | 27.1 | 1.70 | 1.310 | 68.0 | 0.741 | 3.171 | 52.4 | 185.6 | --- | 5.520 | -0.77 | 0.228 | 74.7 | 326.0 | -2.5 | 0.206 |
| 4-3850 | 4-5010 | 0.532 | 97.9 | 27.2 | 1.73 | 1.310 | 68.4 | 0.740 | 3.181 | 51.5 | 186.2 | --- | 5.534 | -0.79 | 0.230 | 73.3 | 326.0 | -2.6 | 0.207 |
| 4-3850 | 4-5030 | 0.525 | 98.7 | 27.3 | 1.76 | 1.310 | 68.8 | 0.739 | 3.191 | 50.5 | 186.7 | --- | 5.549 | -0.81 | 0.233 | 72.0 | 326.1 | -2.6 | 0.208 |
| 4-3850 | 4-5050 | 0.519 | 99.6 | 27.4 | 1.80 | 1.311 | 69.2 | 0.738 | 3.201 | 49.6 | 187.3 | --- | 5.564 | -0.83 | 0.235 | 70.7 | 326.2 | -2.6 | 0.209 |
| 4-3850 | 4-5070 | 0.513 | 100.4 | 27.5 | 1.83 | 1.311 | 69.6 | 0.737 | 3.212 | 48.6 | 187.8 | --- | 5.580 | -0.86 | 0.238 | 69.5 | 326.4 | -2.6 | 0.210 |
| 4-3850 | 4-5090 | 0.507 | 101.3 | 27.6 | 1.87 | 1.311 | 70.0 | 0.737 | 3.223 | 47.6 | 188.4 | --- | 5.597 | -0.89 | 0.240 | 68.4 | 326.7 | -2.6 | 0.212 |
| 4-3850 | 4-5110 | 0.500 | 102.3 | 27.7 | 1.90 | 1.312 | 70.4 | 0.736 | 3.235 | 46.6 | 188.9 | --- | 5.615 | -0.92 | 0.243 | 67.3 | 327.0 | -2.6 | 0.213 |
| 4-3850 | 4-5130 | 0.494 | 103.2 | 27.8 | 1.94 | 1.312 | 70.9 | 0.735 | 3.246 | 45.6 | 189.4 | --- | 5.633 | -0.95 | 0.246 | 66.3 | 327.4 | -2.7 | 0.214 |
| 4-3850 | 4-5150 | 0.488 | 104.2 | 27.9 | 1.99 | 1.313 | 71.3 | 0.735 | 3.258 | 44.6 | 189.9 | --- | 5.652 | -0.99 | 0.248 | 65.4 | 327.8 | -2.7 | 0.216 |
| 4-3850 | 4-5170 | 0.481 | 105.2 | 28.0 | 2.04 | 1.313 | 71.7 | 0.734 | 3.271 | 43.6 | 190.4 | --- | 5.671 | -1.03 | 0.251 | 64.4 | 328.2 | -2.7 | 0.217 |
| 4-3850 | 4-5190 | 0.475 | 106.2 | 28.1 | 2.09 | 1.314 | 72.1 | 0.733 | 3.283 | 42.6 | 190.9 | --- | 5.691 | -1.07 | 0.254 | 63.5 | 328.7 | -2.7 | 0.219 |
| 4-3850 | 4-5210 | 0.469 | 107.3 | 28.3 | 2.15 | 1.314 | 72.6 | 0.733 | 3.296 | 41.5 | 191.4 | --- | 5.711 | -1.12 | 0.257 | 62.7 | 329.2 | -2.7 | 0.220 |
| 4-3850 | 4-5230 | 0.463 | 108.4 | 28.4 | 2.21 | 1.315 | 73.0 | 0.732 | 3.309 | 40.5 | 191.9 | --- | 5.732 | -1.17 | 0.259 | 61.9 | 329.8 | -2.8 | 0.222 |
| 4-3850 | 4-5250 | 0.457 | 109.6 | 28.6 | 2.28 | 1.315 | 73.5 | 0.732 | 3.321 | 39.4 | 192.4 | --- | 5.753 | -1.23 | 0.262 | 61.1 | 330.4 | -2.8 | 0.223 |
| 4-3850 | 4-5270 | 0.450 | 110.8 | 28.8 | 2.35 | 1.315 | 73.9 | 0.732 | 3.335 | 38.4 | 192.9 | --- | 5.774 | -1.30 | 0.265 | 60.4 | 331.0 | -2.8 | 0.225 |
| 4-3850 | 4-5290 | 0.444 | 112.0 | 29.0 | 2.44 | 1.316 | 74.4 | 0.731 | 3.348 | 37.3 | 193.3 | --- | 5.796 | -1.38 | 0.268 | 59.7 | 331.7 | -2.9 | 0.227 |
| 4-3850 | 4-5310 | 0.438 | 113.3 | 29.2 | 2.54 | 1.316 | 74.8 | 0.731 | 3.361 | 36.2 | 193.8 | --- | 5.818 | -1.47 | 0.271 | 59.0 | 332.4 | -2.9 | 0.228 |
| 4-3850 | 4-5330 | 0.433 | 114.6 | 29.4 | 2.65 | 1.317 | 75.3 | 0.731 | 3.375 | 35.1 | 194.2 | --- | 5.840 | -1.57 | 0.273 | 58.4 | 333.2 | -3.0 | 0.230 |
| 4-3850 | 4-5350 | 0.427 | 116.0 | 29.8 | 2.78 | 1.317 | 75.7 | 0.730 | 3.388 | 34.0 | 194.7 | --- | 5.862 | -1.69 | 0.276 | 57.8 | 333.9 | -3.1 | 0.232 |
| 4-3850 | 4-5370 | 0.421 | 117.5 | 30.1 | 2.93 | 1.318 | 76.2 | 0.730 | 3.402 | 32.9 | 195.1 | --- | 5.885 | -1.84 | 0.279 | 57.2 | 334.7 | -3.2 | 0.234 |
| 4-3850 | 4-5390 | 0.416 | 119.0 | 30.6 | 3.11 | 1.318 | 76.7 | 0.730 | 3.416 | 31.8 | 195.6 | --- | 5.908 | -2.01 | 0.282 | 56.6 | 335.6 | -3.3 | 0.235 |
| 4-3850 | 4-5410 | 0.411 | 120.6 | 31.2 | 3.32 | 1.319 | 77.1 | 0.730 | 3.429 | 30.7 | 196.0 | --- | 5.932 | -2.22 | 0.284 | 56.0 | 336.5 | -3.4 | 0.237 |
| 4-3850 | 4-5430 | 0.406 | 122.3 | 31.9 | 3.59 | 1.319 | 77.6 | 0.730 | 3.443 | 29.5 | 196.4 | --- | 5.955 | -2.47 | 0.287 | 55.5 | 337.4 | -3.6 | 0.239 |
| 4-3850 | 4-5450 | 0.401 | 124.1 | 32.8 | 3.92 | 1.319 | 78.1 | 0.729 | 3.457 | 28.4 | 196.8 | --- | 5.979 | -2.80 | 0.290 | 55.0 | 338.3 | -3.9 | 0.241 |
| 4-3860 | 4-4200 | 0.909 | 92.4 | 24.8 | 1.08 | 1.444 | 51.7 | 1.03 | 218.897 | 75.3 | 138.1 | --- | --- | -0.39 | 0.652 | 161.4 | 351.5 | -0.6 | 0.641 |
| 4-3860 | 4-4220 | 0.892 | 91.4 | 24.8 | 1.09 | 1.423 | 51.7 | 0.99 | 534.207 | 76.7 | 141.1 | --- | --- | -0.38 | 0.604 | 160.2 | 351.2 | -0.6 | 0.595 |
| 4-3860 | 4-4240 | 0.878 | 90.6 | 24.8 | 1.11 | 1.405 | 51.8 | 0.96 | 517.375 | 78.0 | 143.9 | --- | --- | -0.38 | 0.560 | 158.9 | 350.8 | -0.6 | 0.554 |
| 4-3860 | 4-4260 | 0.866 | 90.0 | 24.9 | 1.12 | 1.390 | 51.9 | 0.94 | 110.065 | 79.0 | 146.5 | --- | --- | -0.37 | 0.522 | 157.4 | 350.4 | -0.7 | 0.518 |
| 4-3860 | 4-4280 | 0.855 | 89.5 | 24.9 | 1.13 | 1.378 | 52.1 | 0.920 | 7.439 | 79.9 | 148.9 | --- | --- | -0.37 | 0.486 | 155.9 | 349.9 | -0.7 | 0.485 |
| 4-3860 | 4-4300 | 0.845 | 89.0 | 24.9 | 1.14 | 1.367 | 52.2 | 0.903 | 6.097 | 80.5 | 151.2 | --- | --- | -0.36 | 0.455 | 154.3 | 349.4 | -0.7 | 0.456 |
| 4-3860 | 4-4320 | 0.836 | 88.7 | 24.9 | 1.15 | 1.358 | 52.4 | 0.888 | 5.290 | 81.1 | 153.2 | --- | --- | -0.36 | 0.426 | 152.6 | 348.8 | -0.8 | 0.430 |
| 4-3860 | 4-4340 | 0.828 | 88.5 | 24.9 | 1.16 | 1.350 | 52.5 | 0.875 | 4.755 | 81.5 | 155.1 | --- | --- | -0.36 | 0.400 | 150.8 | 348.2 | -0.8 | 0.406 |
| 4-3860 | 4-4360 | 0.820 | 88.3 | 25.0 | 1.17 | 1.343 | 52.7 | 0.864 | 4.378 | 81.7 | 156.9 | --- | --- | -0.36 | 0.376 | 148.9 | 347.5 | -0.8 | 0.384 |
| 4-3860 | 4-4380 | 0.813 | 88.2 | 25.0 | 1.18 | 1.337 | 52.9 | 0.855 | 4.101 | 81.9 | 158.6 | --- | --- | -0.35 | 0.355 | 146.8 | 346.7 | -0.9 | 0.365 |
| 4-3860 | 4-4400 | 0.806 | 88.2 | 25.0 | 1.19 | 1.332 | 53.2 | 0.847 | 3.890 | 81.9 | 160.2 | --- | --- | -0.35 | 0.335 | 144.7 | 345.9 | -0.9 | 0.347 |
| 4-3860 | 4-4420 | 0.799 | 88.2 | 25.0 | 1.20 | 1.328 | 53.4 | 0.839 | 3.727 | 81.9 | 161.7 | --- | --- | -0.35 | 0.317 | 142.4 | 345.0 | -1.0 | 0.331 |
| 4-3860 | 4-4440 | 0.792 | 88.3 | 25.1 | 1.21 | 1.325 | 53.6 | 0.833 | 3.597 | 81.7 | 163.1 | --- | --- | -0.35 | 0.301 | 140.0 | 344.1 | -1.1 | 0.317 |
| 4-3860 | 4-4460 | 0.786 | 88.4 | 25.1 | 1.22 | 1.321 | 53.9 | 0.827 | 3.493 | 81.5 | 164.4 | --- | --- | -0.35 | 0.287 | 137.6 | 343.1 | -1.1 | 0.304 |
| 4-3860 | 4-4480 | 0.779 | 88.5 | 25.1 | 1.23 | 1.319 | 54.2 | 0.822 | 3.409 | 81.2 | 165.6 | --- | --- | -0.35 | 0.274 | 135.0 | 342.1 | -1.2 | 0.292 |
| 4-3860 | 4-4500 | 0.773 | 88.7 | 25.2 | 1.23 | 1.317 | 54.5 | 0.817 | 3.341 | 80.9 | 166.8 | --- | --- | -0.34 | 0.262 | 132.3 | 341.1 | -1.2 | 0.281 |
| 4-3860 | 4-4520 | 0.766 | 89.0 | 25.2 | 1.24 | 1.315 | 54.7 | 0.813 | 3.285 | 80.5 | 168.0 | --- | --- | -0.34 | 0.252 | 129.5 | 340.0 | -1.3 | 0.272 |
| 4-3860 | 4-4540 | 0.760 | 89.2 | 25.2 | 1.25 | 1.313 | 55.0 | 0.809 | 3.239 | 80.1 | 169.0 | --- | --- | -0.34 | 0.243 | 126.7 | 339.0 | -1.4 | 0.263 |
| 4-3860 | 4-4560 | 0.754 | 89.5 | 25.3 | 1.26 | 1.312 | 55.4 | 0.805 | 3.201 | 79.6 | 170.1 | --- | --- | -0.34 | 0.235 | 123.8 | 337.9 | -1.4 | 0.256 |
| 4-3860 | 4-4580 | 0.747 | 89.8 | 25.3 | 1.27 | 1.310 | 55.7 | 0.801 | 3.170 | 79.1 | 171.1 | --- | --- | -0.34 | 0.228 | 120.9 | 336.9 | -1.5 | 0.249 |
| 4-3860 | 4-4600 | 0.741 | 90.2 | 25.3 | 1.28 | 1.309 | 56.0 | 0.798 | 3.144 | 78.5 | 172.0 | --- | --- | -0.34 | 0.222 | 117.9 | 335.8 | -1.5 | 0.243 |
| 4-3860 | 4-4620 | 0.735 | 90.5 | 25.4 | 1.29 | 1.309 | 56.3 | 0.795 | 3.124 | 77.9 | 172.9 | --- | --- | -0.35 | 0.217 | 115.0 | 334.8 | -1.6 | 0.238 |
| 4-3860 | 4-4640 | 0.728 | 90.9 | 25.4 | 1.30 | 1.308 | 56.7 | 0.792 | 3.108 | 77.2 | 173.8 | --- | --- | -0.35 | 0.213 | 112.0 | 333.8 | -1.6 | 0.233 |
| 4-3860 | 4-4660 | 0.722 | 91.3 | 25.4 | 1.31 | 1.307 | 57.0 | 0.790 | 3.095 | 76.6 | 174.6 | --- | --- | -0.35 | 0.210 | 109.1 | 332.8 | -1.7 | 0.229 |
| 4-3860 | 4-4680 | 0.715 | 91.7 | 25.5 | 1.32 | 1.307 | 57.4 | 0.787 | 3.086 | 75.9 | 175.4 | --- | --- | -0.35 | 0.207 | 106.2 | 331.9 | -1.8 | 0.226 |
| 4-3860 | 4-4700 | 0.709 | 92.2 | 25.5 | 1.33 | 1.307 | 57.7 | 0.785 | 3.079 | 75.2 | 176.2 | --- | --- | -0.35 | 0.205 | 103.4 | 331.0 | -1.8 | 0.223 |
| 4-3860 | 4-4720 | 0.702 | 92.6 | 25.5 | 1.34 | 1.307 | 58.1 | 0.783 | 3.074 | 74.4 | 177.0 | --- | --- | -0.35 | 0.204 | 100.6 | 330.2 | -1.8 | 0.220 |
| 4-3860 | 4-4740 | 0.696 | 93.1 | 25.6 | 1.35 | 1.307 | 58.5 | 0.781 | 3.071 | 73.6 | 177.7 | --- | --- | -0.35 | 0.203 | 97.9 | 329.4 | -1.9 | 0.218 |
| 4-3860 | 4-4760 | 0.689 | 93.6 | 25.6 | 1.36 | 1.306 | 58.8 | 0.778 | 3.071 | 72.9 | 178.5 | --- | --- | -0.36 | 0.203 | 95.4 | 328.7 | -1.9 | 0.217 |
| 4-3860 | 4-4780 | 0.683 | 94.1 | 25.6 | 1.37 | 1.307 | 59.2 | 0.776 | 3.072 | 72.0 | 179.2 | --- | --- | -0.36 | 0.203 | 92.9 | 328.1 | -2.0 | 0.215 |
| 4-3860 | 4-4800 | 0.676 | 94.6 | 25.7 | 1.38 | 1.307 | 59.6 | 0.775 | 3.074 | 71.2 | 179.9 | --- | --- | -0.36 | 0.203 | 90.5 | 327.5 | -2.0 | 0.214 |
| 4-3860 | 4-4820 | 0.669 | 95.2 | 25.7 | 1.39 | 1.307 | 60.0 | 0.773 | 3.077 | 70.4 | 180.5 | --- | 5.455 | -0.37 | 0.204 | 88.2 | 327.0 | -2.0 | 0.214 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3860 | 4-4840 | 0.663 | 95.8 | 25.7 | 1.40 | 1.307 | 60.4 | 0.771 | 3.082 | 69.5 | 181.2 | --- | 5.458 | -0.37 | 0.205 | 86.1 | 326.6 | -2.0 | 0.213 |
| 4-3860 | 4-4860 | 0.656 | 96.3 | 25.8 | 1.41 | 1.307 | 60.8 | 0.769 | 3.088 | 68.6 | 181.8 | --- | 5.463 | -0.37 | 0.207 | 84.0 | 326.2 | -2.1 | 0.213 |
| 4-3860 | 4-4880 | 0.649 | 96.9 | 25.8 | 1.42 | 1.307 | 61.2 | 0.768 | 3.094 | 67.8 | 182.4 | --- | 5.470 | -0.38 | 0.209 | 82.0 | 325.9 | -2.1 | 0.213 |
| 4-3860 | 4-4900 | 0.642 | 97.5 | 25.8 | 1.43 | 1.308 | 61.6 | 0.766 | 3.101 | 66.9 | 183.0 | --- | 5.478 | -0.38 | 0.211 | 80.2 | 325.6 | -2.1 | 0.213 |
| 4-3860 | 4-4920 | 0.636 | 98.2 | 25.9 | 1.44 | 1.308 | 62.0 | 0.765 | 3.109 | 65.9 | 183.6 | --- | 5.487 | -0.39 | 0.213 | 78.4 | 325.5 | -2.1 | 0.213 |
| 4-3860 | 4-4940 | 0.629 | 98.8 | 25.9 | 1.45 | 1.308 | 62.4 | 0.763 | 3.118 | 65.0 | 184.2 | --- | 5.498 | -0.39 | 0.215 | 76.7 | 325.3 | -2.1 | 0.214 |
| 4-3860 | 4-4960 | 0.622 | 99.5 | 25.9 | 1.46 | 1.309 | 62.8 | 0.762 | 3.127 | 64.1 | 184.8 | --- | 5.510 | -0.40 | 0.217 | 75.1 | 325.3 | -2.1 | 0.214 |
| 4-3860 | 4-4980 | 0.615 | 100.1 | 25.9 | 1.48 | 1.309 | 63.2 | 0.761 | 3.137 | 63.1 | 185.4 | --- | 5.523 | -0.41 | 0.220 | 73.7 | 325.3 | -2.1 | 0.215 |
| 4-3860 | 4-5000 | 0.608 | 100.8 | 26.0 | 1.49 | 1.310 | 63.6 | 0.759 | 3.147 | 62.2 | 185.9 | --- | 5.537 | -0.41 | 0.223 | 72.2 | 325.4 | -2.2 | 0.216 |
| 4-3860 | 4-5020 | 0.601 | 101.5 | 26.0 | 1.50 | 1.310 | 64.1 | 0.758 | 3.158 | 61.2 | 186.5 | --- | 5.552 | -0.42 | 0.225 | 70.9 | 325.5 | -2.2 | 0.216 |
| 4-3860 | 4-5040 | 0.594 | 102.3 | 26.0 | 1.52 | 1.310 | 64.5 | 0.757 | 3.169 | 60.2 | 187.0 | --- | 5.568 | -0.43 | 0.228 | 69.6 | 325.7 | -2.2 | 0.217 |
| 4-3860 | 4-5060 | 0.587 | 103.0 | 26.0 | 1.53 | 1.311 | 64.9 | 0.756 | 3.181 | 59.2 | 187.5 | --- | 5.584 | -0.44 | 0.231 | 68.4 | 325.9 | -2.2 | 0.218 |
| 4-3860 | 4-5080 | 0.580 | 103.8 | 26.0 | 1.55 | 1.311 | 65.3 | 0.755 | 3.193 | 58.2 | 188.1 | --- | 5.602 | -0.45 | 0.234 | 67.3 | 326.2 | -2.1 | 0.220 |
| 4-3860 | 4-5100 | 0.573 | 104.6 | 26.0 | 1.56 | 1.312 | 65.8 | 0.753 | 3.205 | 57.2 | 188.6 | --- | 5.619 | -0.46 | 0.237 | 66.2 | 326.5 | -2.1 | 0.221 |
| 4-3860 | 4-5120 | 0.566 | 105.4 | 26.1 | 1.58 | 1.312 | 66.2 | 0.752 | 3.217 | 56.2 | 189.1 | --- | 5.638 | -0.47 | 0.240 | 65.2 | 326.9 | -2.1 | 0.222 |
| 4-3860 | 4-5140 | 0.559 | 106.2 | 26.1 | 1.60 | 1.313 | 66.6 | 0.751 | 3.230 | 55.2 | 189.6 | --- | 5.657 | -0.48 | 0.243 | 64.2 | 327.3 | -2.1 | 0.223 |
| 4-3860 | 4-5160 | 0.552 | 107.0 | 26.1 | 1.61 | 1.313 | 67.1 | 0.750 | 3.243 | 54.2 | 190.1 | --- | 5.676 | -0.49 | 0.246 | 63.3 | 327.7 | -2.1 | 0.224 |
| 4-3860 | 4-5180 | 0.545 | 107.9 | 26.1 | 1.63 | 1.314 | 67.5 | 0.749 | 3.256 | 53.1 | 190.6 | --- | 5.696 | -0.51 | 0.249 | 62.5 | 328.2 | -2.1 | 0.226 |
| 4-3860 | 4-5200 | 0.538 | 108.8 | 26.1 | 1.65 | 1.314 | 68.0 | 0.749 | 3.269 | 52.1 | 191.0 | --- | 5.716 | -0.52 | 0.251 | 61.6 | 328.8 | -2.1 | 0.227 |
| 4-3860 | 4-5220 | 0.531 | 109.7 | 26.1 | 1.68 | 1.314 | 68.4 | 0.748 | 3.282 | 51.0 | 191.5 | --- | 5.736 | -0.54 | 0.254 | 60.8 | 329.4 | -2.1 | 0.228 |
| 4-3860 | 4-5240 | 0.524 | 110.6 | 26.1 | 1.70 | 1.315 | 68.9 | 0.747 | 3.296 | 49.9 | 192.0 | --- | 5.757 | -0.56 | 0.257 | 60.1 | 330.0 | -2.1 | 0.230 |
| 4-3860 | 4-5260 | 0.517 | 111.6 | 26.1 | 1.73 | 1.315 | 69.3 | 0.746 | 3.309 | 48.9 | 192.4 | --- | 5.779 | -0.58 | 0.260 | 59.4 | 330.6 | -2.1 | 0.231 |
| 4-3860 | 4-5280 | 0.510 | 112.6 | 26.1 | 1.75 | 1.316 | 69.8 | 0.745 | 3.323 | 47.8 | 192.9 | --- | 5.800 | -0.60 | 0.263 | 58.7 | 331.3 | -2.1 | 0.233 |
| 4-3860 | 4-5300 | 0.503 | 113.6 | 26.1 | 1.78 | 1.316 | 70.3 | 0.745 | 3.337 | 46.7 | 193.3 | --- | 5.822 | -0.63 | 0.266 | 58.0 | 332.0 | -2.0 | 0.234 |
| 4-3860 | 4-5320 | 0.496 | 114.6 | 26.1 | 1.81 | 1.317 | 70.7 | 0.744 | 3.351 | 45.6 | 193.8 | --- | 5.844 | -0.65 | 0.269 | 57.4 | 332.7 | -2.0 | 0.236 |
| 4-3860 | 4-5340 | 0.489 | 115.7 | 26.1 | 1.85 | 1.317 | 71.2 | 0.743 | 3.365 | 44.5 | 194.2 | --- | 5.867 | -0.68 | 0.272 | 56.8 | 333.5 | -2.0 | 0.237 |
| 4-3860 | 4-5360 | 0.482 | 116.8 | 26.1 | 1.89 | 1.318 | 71.7 | 0.743 | 3.379 | 43.4 | 194.7 | --- | 5.889 | -0.72 | 0.275 | 56.3 | 334.3 | -2.0 | 0.239 |
| 4-3860 | 4-5380 | 0.475 | 117.9 | 26.2 | 1.93 | 1.318 | 72.1 | 0.742 | 3.394 | 42.2 | 195.1 | --- | 5.912 | -0.75 | 0.278 | 55.7 | 335.2 | -2.0 | 0.240 |
| 4-3860 | 4-5400 | 0.468 | 119.1 | 26.2 | 1.98 | 1.319 | 72.6 | 0.742 | 3.408 | 41.1 | 195.5 | --- | 5.935 | -0.80 | 0.281 | 55.2 | 336.0 | -2.0 | 0.242 |
| 4-3860 | 4-5420 | 0.462 | 120.3 | 26.2 | 2.03 | 1.319 | 73.1 | 0.741 | 3.422 | 40.0 | 195.9 | --- | 5.958 | -0.84 | 0.284 | 54.7 | 336.9 | -2.0 | 0.243 |
| 4-3860 | 4-5440 | 0.455 | 121.6 | 26.2 | 2.09 | 1.320 | 73.6 | 0.741 | 3.437 | 38.8 | 196.4 | --- | 5.982 | -0.90 | 0.286 | 54.2 | 337.8 | -2.0 | 0.245 |
| 4-3860 | 4-5460 | 0.448 | 122.9 | 26.3 | 2.16 | 1.320 | 74.1 | 0.740 | 3.451 | 37.7 | 196.8 | --- | 6.006 | -0.96 | 0.289 | 53.8 | 338.7 | -2.0 | 0.247 |
| 4-3870 | 4-4210 | 1.028 | 94.5 | 24.6 | 1.21 | 1.433 | 44.3 | 1.00951.195 | | 90.9 | 144.3 | --- | --- | -0.14 | 0.626 | 163.0 | 349.6 | -0.6 | 0.631 |
| 4-3870 | 4-4230 | 1.010 | 93.9 | 24.6 | 1.22 | 1.413 | 44.6 | 0.98226.761 | | 92.0 | 147.0 | --- | --- | -0.14 | 0.578 | 161.7 | 349.2 | -0.6 | 0.587 |
| 4-3870 | 4-4250 | 0.993 | 93.4 | 24.6 | 1.22 | 1.396 | 44.8 | 0.96011.831 | | 92.9 | 149.4 | --- | --- | -0.14 | 0.536 | 160.4 | 348.7 | -0.6 | 0.547 |
| 4-3870 | 4-4270 | 0.979 | 93.0 | 24.6 | 1.23 | 1.382 | 45.1 | 0.941 | 8.079 | 93.6 | 151.7 | --- | --- | -0.14 | 0.497 | 159.0 | 348.2 | -0.7 | 0.512 |
| 4-3870 | 4-4290 | 0.966 | 92.7 | 24.7 | 1.23 | 1.370 | 45.3 | 0.925 | 6.383 | 94.1 | 153.7 | --- | --- | -0.13 | 0.463 | 157.4 | 347.6 | -0.7 | 0.481 |
| 4-3870 | 4-4310 | 0.954 | 92.5 | 24.7 | 1.24 | 1.360 | 45.6 | 0.912 | 5.426 | 94.4 | 155.6 | --- | --- | -0.13 | 0.432 | 155.8 | 347.0 | -0.7 | 0.453 |
| 4-3870 | 4-4330 | 0.944 | 92.4 | 24.7 | 1.24 | 1.351 | 45.9 | 0.900 | 4.816 | 94.7 | 157.4 | --- | --- | -0.13 | 0.403 | 154.0 | 346.3 | -0.8 | 0.427 |
| 4-3870 | 4-4350 | 0.934 | 92.3 | 24.7 | 1.24 | 1.344 | 46.2 | 0.890 | 4.397 | 94.8 | 159.0 | --- | --- | -0.13 | 0.377 | 152.1 | 345.6 | -0.8 | 0.404 |
| 4-3870 | 4-4370 | 0.924 | 92.3 | 24.7 | 1.25 | 1.338 | 46.5 | 0.882 | 4.095 | 94.8 | 160.6 | --- | --- | -0.13 | 0.354 | 150.1 | 344.8 | -0.9 | 0.384 |
| 4-3870 | 4-4390 | 0.915 | 92.4 | 24.8 | 1.25 | 1.332 | 46.8 | 0.874 | 3.868 | 94.7 | 162.0 | --- | --- | -0.13 | 0.333 | 148.0 | 343.9 | -0.9 | 0.365 |
| 4-3870 | 4-4410 | 0.906 | 92.5 | 24.8 | 1.26 | 1.328 | 47.2 | 0.867 | 3.695 | 94.5 | 163.4 | --- | --- | -0.12 | 0.314 | 145.7 | 343.0 | -1.0 | 0.348 |
| 4-3870 | 4-4430 | 0.898 | 92.6 | 24.8 | 1.26 | 1.324 | 47.5 | 0.861 | 3.559 | 94.2 | 164.6 | --- | --- | -0.12 | 0.296 | 143.3 | 342.1 | -1.0 | 0.333 |
| 4-3870 | 4-4450 | 0.890 | 92.8 | 24.8 | 1.26 | 1.321 | 47.8 | 0.855 | 3.451 | 93.9 | 165.8 | --- | --- | -0.12 | 0.281 | 140.8 | 341.2 | -1.1 | 0.320 |
| 4-3870 | 4-4470 | 0.882 | 93.0 | 24.8 | 1.27 | 1.318 | 48.2 | 0.850 | 3.364 | 93.5 | 167.0 | --- | --- | -0.12 | 0.267 | 138.2 | 340.2 | -1.1 | 0.307 |
| 4-3870 | 4-4490 | 0.874 | 93.2 | 24.8 | 1.27 | 1.315 | 48.5 | 0.845 | 3.293 | 93.1 | 168.0 | --- | --- | -0.12 | 0.254 | 135.4 | 339.1 | -1.2 | 0.296 |
| 4-3870 | 4-4510 | 0.867 | 93.5 | 24.9 | 1.27 | 1.313 | 48.9 | 0.841 | 3.236 | 92.6 | 169.1 | --- | --- | -0.12 | 0.243 | 132.5 | 338.1 | -1.2 | 0.286 |
| 4-3870 | 4-4530 | 0.859 | 93.7 | 24.9 | 1.28 | 1.312 | 49.2 | 0.837 | 3.189 | 92.0 | 170.0 | --- | --- | -0.12 | 0.233 | 129.5 | 337.1 | -1.3 | 0.278 |
| 4-3870 | 4-4550 | 0.852 | 94.1 | 24.9 | 1.28 | 1.310 | 49.6 | 0.833 | 3.151 | 91.4 | 171.0 | --- | --- | -0.12 | 0.224 | 126.5 | 336.1 | -1.3 | 0.270 |
| 4-3870 | 4-4570 | 0.844 | 94.4 | 24.9 | 1.28 | 1.309 | 50.0 | 0.830 | 3.120 | 90.8 | 171.9 | --- | --- | -0.12 | 0.217 | 123.3 | 335.0 | -1.4 | 0.263 |
| 4-3870 | 4-4590 | 0.837 | 94.7 | 24.9 | 1.29 | 1.308 | 50.4 | 0.826 | 3.095 | 90.1 | 172.7 | --- | --- | -0.12 | 0.210 | 120.1 | 334.0 | -1.4 | 0.257 |
| 4-3870 | 4-4610 | 0.829 | 95.1 | 24.9 | 1.29 | 1.307 | 50.8 | 0.823 | 3.075 | 89.5 | 173.6 | --- | --- | -0.12 | 0.205 | 116.9 | 333.1 | -1.5 | 0.251 |
| 4-3870 | 4-4630 | 0.822 | 95.5 | 24.9 | 1.29 | 1.306 | 51.1 | 0.820 | 3.059 | 88.7 | 174.4 | --- | --- | -0.12 | 0.201 | 113.7 | 332.1 | -1.5 | 0.247 |
| 4-3870 | 4-4650 | 0.815 | 95.9 | 25.0 | 1.29 | 1.306 | 51.5 | 0.817 | 3.047 | 88.0 | 175.1 | --- | --- | -0.12 | 0.197 | 110.5 | 331.2 | -1.6 | 0.242 |
| 4-3870 | 4-4670 | 0.807 | 96.3 | 25.0 | 1.30 | 1.306 | 51.9 | 0.815 | 3.038 | 87.2 | 175.9 | --- | --- | -0.12 | 0.194 | 107.3 | 330.4 | -1.6 | 0.239 |
| 4-3870 | 4-4690 | 0.800 | 96.8 | 25.0 | 1.30 | 1.305 | 52.3 | 0.812 | 3.031 | 86.5 | 176.6 | --- | --- | -0.12 | 0.192 | 104.2 | 329.5 | -1.6 | 0.236 |
| 4-3870 | 4-4710 | 0.793 | 97.2 | 25.0 | 1.30 | 1.305 | 52.7 | 0.809 | 3.027 | 85.7 | 177.3 | --- | --- | -0.12 | 0.191 | 101.2 | 328.8 | -1.7 | 0.233 |
| 4-3870 | 4-4730 | 0.786 | 97.7 | 25.0 | 1.31 | 1.305 | 53.2 | 0.807 | 3.026 | 84.8 | 178.0 | --- | --- | -0.12 | 0.190 | 98.3 | 328.1 | -1.7 | 0.231 |
| 4-3870 | 4-4750 | 0.778 | 98.2 | 25.0 | 1.31 | 1.305 | 53.6 | 0.805 | 3.025 | 84.0 | 178.7 | --- | --- | -0.12 | 0.190 | 95.5 | 327.5 | -1.7 | 0.229 |
| 4-3870 | 4-4770 | 0.771 | 98.7 | 25.0 | 1.31 | 1.305 | 54.0 | 0.802 | 3.027 | 83.1 | 179.3 | --- | --- | -0.12 | 0.191 | 92.8 | 326.9 | -1.8 | 0.228 |
| 4-3870 | 4-4790 | 0.764 | 99.2 | 25.0 | 1.32 | 1.305 | 54.4 | 0.800 | 3.030 | 82.3 | 180.0 | --- | --- | -0.12 | 0.191 | 90.2 | 326.4 | -1.8 | 0.226 |
| 4-3870 | 4-4810 | 0.756 | 99.7 | 25.0 | 1.32 | 1.305 | 54.8 | 0.798 | 3.034 | 81.4 | 180.6 | --- | 5.456 | -0.12 | 0.193 | 87.7 | 325.9 | -1.8 | 0.225 |
| 4-3870 | 4-4830 | 0.749 | 100.2 | 25.0 | 1.32 | 1.306 | 55.3 | 0.796 | 3.039 | 80.5 | 181.2 | --- | 5.459 | -0.12 | 0.194 | 85.4 | 325.5 | -1.8 | 0.225 |
| 4-3870 | 4-4850 | 0.741 | 100.7 | 25.0 | 1.33 | 1.306 | 55.7 | 0.794 | 3.046 | 79.6 | 181.8 | --- | 5.464 | -0.12 | 0.196 | 83.2 | 325.2 | -1.9 | 0.224 |
| 4-3870 | 4-4870 | 0.734 | 101.3 | 25.0 | 1.33 | 1.306 | 56.1 | 0.792 | 3.053 | 78.6 | 182.4 | --- | 5.471 | -0.12 | 0.198 | 81.1 | 325.0 | -1.9 | 0.224 |
| 4-3870 | 4-4890 | 0.727 | 101.9 | 25.0 | 1.33 | 1.307 | 56.5 | 0.790 | 3.061 | 77.7 | 182.9 | --- | 5.480 | -0.12 | 0.200 | 79.1 | 324.8 | -1.9 | 0.224 |
| 4-3870 | 4-4910 | 0.719 | 102.4 | 25.0 | 1.34 | 1.307 | 57.0 | 0.788 | 3.070 | 76.7 | 183.5 | --- | 5.490 | -0.12 | 0.203 | 77.2 | 324.6 | -1.9 | 0.224 |
| 4-3870 | 4-4930 | 0.712 | 103.0 | 25.0 | 1.34 | 1.307 | 57.4 | 0.787 | 3.079 | 75.8 | 184.1 | --- | 5.501 | -0.12 | 0.205 | 75.5 | 324.6 | -1.9 | 0.224 |
| 4-3870 | 4-4950 | 0.704 | 103.6 | 25.0 | 1.34 | 1.308 | 57.9 | 0.785 | 3.089 | 74.8 | 184.6 | --- | 5.514 | -0.12 | 0.208 | 73.8 | 324.6 | -1.9 | 0.225 |
| 4-3870 | 4-4970 | 0.697 | 104.2 | 25.0 | 1.35 | 1.308 | 58.3 | 0.783 | 3.099 | 73.8 | 185.1 | --- | 5.527 | -0.12 | 0.211 | 72.3 | 324.6 | -1.9 | 0.225 |
| 4-3870 | 4-4990 | 0.689 | 104.9 | 24.9 | 1.35 | 1.309 | 58.7 | 0.782 | 3.110 | 72.9 | 185.7 | --- | 5.542 | -0.13 | 0.214 | 70.8 | 324.7 | -1.9 | 0.226 |
| 4-3870 | 4-5010 | 0.682 | 105.5 | 24.9 | 1.35 | 1.309 | 59.2 | 0.780 | 3.122 | 71.9 | 186.2 | --- | 5.557 | -0.13 | 0.217 | 69.5 | 324.9 | -1.9 | 0.227 |
| 4-3870 | 4-5030 | 0.674 | 106.1 | 24.9 | 1.36 | 1.309 | 59.6 | 0.778 | 3.134 | 70.9 | 186.7 | --- | 5.573 | -0.13 | 0.220 | 68.2 | 325.1 | -1.9 | 0.227 |
| 4-3870 | 4-5050 | 0.667 | 106.8 | 24.9 | 1.36 | 1.310 | 60.1 | 0.777 | 3.146 | 69.8 | 187.2 | --- | 5.590 | -0.13 | 0.223 | 67.0 | 325.3 | -1.9 | 0.228 |
| 4-3870 | 4-5070 | 0.659 | 107.5 | 24.9 | 1.36 | 1.310 | 60.5 | 0.775 | 3.158 | 68.8 | 187.7 | --- | 5.607 | -0.13 | 0.226 | 65.8 | 325.6 | -1.9 | 0.229 |
| 4-3870 | 4-5090 | 0.651 | 108.2 | 24.8 | 1.37 | 1.311 | 61.0 | 0.774 | 3.171 | 67.8 | 188.2 | --- | 5.625 | -0.13 | 0.229 | 64.7 | 326.0 | -1.8 | 0.230 |
| 4-3870 | 4-5110 | 0.644 | 108.9 | 24.8 | 1.37 | 1.311 | 61.5 | 0.773 | 3.184 | 66.8 | 188.7 | --- | 5.644 | -0.14 | 0.233 | 63.7 | 326.4 | -1.8 | 0.231 |
| 4-3870 | 4-5130 | 0.636 | 109.6 | 24.8 | 1.38 | 1.312 | 61.9 | 0.771 | 3.197 | 65.7 | 189.2 | --- | 5.663 | -0.14 | 0.236 | 62.8 | 326.8 | -1.8 | 0.232 |
| 4-3870 | 4-5150 | 0.628 | 110.3 | 24.7 | 1.38 | 1.312 | 62.4 | 0.770 | 3.211 | 64.7 | 189.6 | --- | 5.682 | -0.14 | 0.239 | 61.9 | 327.3 | -1.8 | 0.233 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3870 | 4-5170 | 0.621 | 111.0 | 24.7 | 1.39 | 1.313 | 62.8 | 0.769 | 3.224 | 63.6 | 190.1 | --- | 5.702 | -0.14 | 0.242 | 61.0 | 327.8 | -1.8 | 0.234 |
| 4-3870 | 4-5190 | 0.613 | 111.8 | 24.6 | 1.39 | 1.313 | 63.3 | 0.767 | 3.238 | 62.5 | 190.6 | --- | 5.723 | -0.15 | 0.245 | 60.2 | 328.4 | -1.7 | 0.236 |
| 4-3870 | 4-5210 | 0.606 | 112.6 | 24.6 | 1.40 | 1.314 | 63.8 | 0.766 | 3.252 | 61.5 | 191.0 | --- | 5.743 | -0.15 | 0.249 | 59.4 | 329.0 | -1.7 | 0.237 |
| 4-3870 | 4-5230 | 0.598 | 113.4 | 24.5 | 1.40 | 1.314 | 64.2 | 0.765 | 3.266 | 60.4 | 191.5 | --- | 5.765 | -0.15 | 0.252 | 58.7 | 329.6 | -1.7 | 0.238 |
| 4-3870 | 4-5250 | 0.590 | 114.2 | 24.5 | 1.41 | 1.315 | 64.7 | 0.764 | 3.280 | 59.3 | 191.9 | --- | 5.786 | -0.16 | 0.255 | 58.0 | 330.2 | -1.7 | 0.239 |
| 4-3870 | 4-5270 | 0.583 | 115.0 | 24.4 | 1.41 | 1.315 | 65.2 | 0.763 | 3.295 | 58.2 | 192.4 | --- | 5.808 | -0.16 | 0.258 | 57.3 | 330.9 | -1.6 | 0.241 |
| 4-3870 | 4-5290 | 0.575 | 115.8 | 24.3 | 1.42 | 1.316 | 65.7 | 0.762 | 3.309 | 57.1 | 192.8 | --- | 5.829 | -0.17 | 0.261 | 56.7 | 331.6 | -1.6 | 0.242 |
| 4-3870 | 4-5310 | 0.567 | 116.7 | 24.3 | 1.43 | 1.316 | 66.1 | 0.760 | 3.324 | 56.0 | 193.3 | --- | 5.852 | -0.17 | 0.264 | 56.1 | 332.4 | -1.6 | 0.243 |
| 4-3870 | 4-5330 | 0.560 | 117.6 | 24.2 | 1.43 | 1.317 | 66.6 | 0.759 | 3.338 | 54.9 | 193.7 | --- | 5.874 | -0.18 | 0.267 | 55.6 | 333.2 | -1.5 | 0.244 |
| 4-3870 | 4-5360 | 0.552 | 118.5 | 24.1 | 1.44 | 1.317 | 67.1 | 0.758 | 3.353 | 53.8 | 194.1 | --- | 5.896 | -0.18 | 0.270 | 55.0 | 334.0 | -1.5 | 0.246 |
| 4-3870 | 4-5370 | 0.544 | 119.4 | 24.0 | 1.45 | 1.318 | 67.6 | 0.758 | 3.368 | 52.7 | 194.5 | --- | 5.919 | -0.19 | 0.273 | 54.5 | 334.8 | -1.5 | 0.247 |
| 4-3870 | 4-5390 | 0.537 | 120.4 | 23.9 | 1.46 | 1.318 | 68.1 | 0.757 | 3.383 | 51.5 | 195.0 | --- | 5.942 | -0.19 | 0.276 | 54.0 | 335.7 | -1.4 | 0.249 |
| 4-3870 | 4-5410 | 0.529 | 121.3 | 23.8 | 1.47 | 1.319 | 68.6 | 0.756 | 3.398 | 50.4 | 195.4 | --- | 5.965 | -0.20 | 0.279 | 53.5 | 336.5 | -1.4 | 0.250 |
| 4-3870 | 4-5430 | 0.521 | 122.3 | 23.7 | 1.48 | 1.319 | 69.0 | 0.755 | 3.413 | 49.2 | 195.8 | --- | 5.989 | -0.21 | 0.282 | 53.1 | 337.4 | -1.4 | 0.251 |
| 4-3870 | 4-5450 | 0.514 | 123.3 | 23.6 | 1.49 | 1.320 | 69.5 | 0.754 | 3.428 | 48.1 | 196.2 | --- | 6.012 | -0.22 | 0.285 | 52.7 | 338.4 | -1.3 | 0.253 |
| 4-3870 | 4-5470 | 0.506 | 124.4 | 23.5 | 1.50 | 1.320 | 70.0 | 0.753 | 3.443 | 46.9 | 196.6 | --- | 6.036 | -0.23 | 0.288 | 52.3 | 339.3 | -1.3 | 0.254 |
| 4-3880 | 4-4220 | 1.151 | 97.6 | 24.3 | 1.42 | 1.423 | 36.8 | 0.99697 | 7.582 | 106.7 | 150.8 | --- | --- | 0.17 | 0.601 | 165.0 | 347.5 | -0.6 | 0.626 |
| 4-3880 | 4-4240 | 1.130 | 97.2 | 24.3 | 1.41 | 1.403 | 37.2 | 0.97715 | 5.554 | 107.4 | 153.0 | --- | --- | 0.16 | 0.554 | 163.8 | 347.0 | -0.6 | 0.583 |
| 4-3880 | 4-4260 | 1.111 | 97.0 | 24.4 | 1.41 | 1.387 | 37.6 | 0.961 | 9.180 | 107.8 | 155.0 | --- | --- | 0.16 | 0.512 | 162.4 | 346.4 | -0.7 | 0.545 |
| 4-3880 | 4-4280 | 1.095 | 96.8 | 24.4 | 1.40 | 1.374 | 38.0 | 0.948 | 6.847 | 108.1 | 156.8 | --- | --- | 0.15 | 0.474 | 161.0 | 345.8 | -0.7 | 0.511 |
| 4-3880 | 4-4300 | 1.080 | 96.7 | 24.4 | 1.40 | 1.363 | 38.5 | 0.936 | 5.648 | 108.3 | 158.5 | --- | --- | 0.15 | 0.440 | 159.4 | 345.1 | -0.7 | 0.480 |
| 4-3880 | 4-4320 | 1.066 | 96.7 | 24.4 | 1.39 | 1.353 | 38.9 | 0.926 | 4.925 | 108.3 | 160.0 | --- | --- | 0.15 | 0.409 | 157.8 | 344.4 | -0.8 | 0.453 |
| 4-3880 | 4-4340 | 1.053 | 96.8 | 24.4 | 1.39 | 1.345 | 39.3 | 0.918 | 4.445 | 108.2 | 161.5 | --- | --- | 0.14 | 0.381 | 156.0 | 343.6 | -0.8 | 0.429 |
| 4-3880 | 4-4360 | 1.041 | 96.8 | 24.4 | 1.38 | 1.338 | 39.7 | 0.910 | 4.108 | 108.0 | 162.8 | --- | --- | 0.14 | 0.355 | 154.1 | 342.8 | -0.9 | 0.407 |
| 4-3880 | 4-4380 | 1.030 | 97.0 | 24.4 | 1.38 | 1.332 | 40.2 | 0.903 | 3.860 | 107.7 | 164.1 | --- | --- | 0.14 | 0.332 | 152.0 | 342.0 | -0.9 | 0.387 |
| 4-3880 | 4-4400 | 1.019 | 97.1 | 24.4 | 1.37 | 1.327 | 40.6 | 0.896 | 3.672 | 107.3 | 165.2 | --- | --- | 0.14 | 0.311 | 149.8 | 341.1 | -0.9 | 0.369 |
| 4-3880 | 4-4420 | 1.009 | 97.3 | 24.5 | 1.37 | 1.323 | 41.0 | 0.891 | 3.527 | 106.9 | 166.3 | --- | --- | 0.13 | 0.292 | 147.4 | 340.1 | -1.0 | 0.353 |
| 4-3880 | 4-4440 | 0.999 | 97.6 | 24.5 | 1.36 | 1.319 | 41.4 | 0.885 | 3.412 | 106.4 | 167.4 | --- | --- | 0.13 | 0.275 | 144.9 | 339.2 | -1.0 | 0.339 |
| 4-3880 | 4-4460 | 0.989 | 97.8 | 24.5 | 1.36 | 1.316 | 41.9 | 0.880 | 3.321 | 105.9 | 168.4 | --- | --- | 0.13 | 0.260 | 142.2 | 338.2 | -1.1 | 0.326 |
| 4-3880 | 4-4480 | 0.980 | 98.1 | 24.5 | 1.36 | 1.314 | 42.3 | 0.876 | 3.247 | 105.3 | 169.3 | --- | --- | 0.13 | 0.246 | 139.3 | 337.2 | -1.1 | 0.314 |
| 4-3880 | 4-4500 | 0.971 | 98.4 | 24.5 | 1.35 | 1.312 | 42.7 | 0.872 | 3.188 | 104.7 | 170.2 | --- | --- | 0.13 | 0.233 | 136.3 | 336.2 | -1.2 | 0.304 |
| 4-3880 | 4-4520 | 0.962 | 98.7 | 24.5 | 1.35 | 1.310 | 43.2 | 0.868 | 3.140 | 104.0 | 171.1 | --- | --- | 0.13 | 0.222 | 133.2 | 335.2 | -1.2 | 0.295 |
| 4-3880 | 4-4540 | 0.954 | 99.1 | 24.5 | 1.35 | 1.308 | 43.6 | 0.864 | 3.101 | 103.3 | 171.9 | --- | --- | 0.12 | 0.213 | 129.9 | 334.2 | -1.3 | 0.287 |
| 4-3880 | 4-4560 | 0.945 | 99.4 | 24.5 | 1.34 | 1.307 | 44.1 | 0.860 | 3.070 | 102.6 | 172.7 | --- | --- | 0.12 | 0.205 | 126.6 | 333.2 | -1.3 | 0.279 |
| 4-3880 | 4-4580 | 0.936 | 99.8 | 24.4 | 1.34 | 1.306 | 44.5 | 0.857 | 3.044 | 101.9 | 173.5 | --- | --- | 0.12 | 0.197 | 123.1 | 332.3 | -1.4 | 0.273 |
| 4-3880 | 4-4600 | 0.928 | 100.2 | 24.4 | 1.34 | 1.305 | 44.9 | 0.853 | 3.024 | 101.1 | 174.2 | --- | --- | 0.12 | 0.191 | 119.6 | 331.4 | -1.4 | 0.267 |
| 4-3880 | 4-4620 | 0.920 | 100.6 | 24.4 | 1.33 | 1.304 | 45.4 | 0.850 | 3.009 | 100.3 | 174.9 | --- | --- | 0.12 | 0.187 | 116.0 | 330.5 | -1.4 | 0.262 |
| 4-3880 | 4-4640 | 0.911 | 101.0 | 24.4 | 1.33 | 1.304 | 45.8 | 0.847 | 2.997 | 99.5 | 175.6 | --- | --- | 0.12 | 0.183 | 112.5 | 329.7 | -1.5 | 0.258 |
| 4-3880 | 4-4660 | 0.903 | 101.4 | 24.4 | 1.33 | 1.304 | 46.3 | 0.844 | 2.988 | 98.6 | 176.3 | --- | --- | 0.12 | 0.180 | 109.0 | 328.9 | -1.5 | 0.254 |
| 4-3880 | 4-4680 | 0.895 | 101.9 | 24.4 | 1.32 | 1.303 | 46.7 | 0.841 | 2.982 | 97.8 | 177.0 | --- | --- | 0.12 | 0.178 | 105.5 | 328.1 | -1.5 | 0.251 |
| 4-3880 | 4-4700 | 0.887 | 102.3 | 24.4 | 1.32 | 1.303 | 47.2 | 0.839 | 2.979 | 96.9 | 177.6 | --- | --- | 0.12 | 0.176 | 102.1 | 327.4 | -1.6 | 0.248 |
| 4-3880 | 4-4720 | 0.879 | 102.8 | 24.4 | 1.32 | 1.303 | 47.7 | 0.836 | 2.977 | 96.0 | 178.2 | --- | --- | 0.12 | 0.176 | 98.8 | 326.8 | -1.6 | 0.245 |
| 4-3880 | 4-4740 | 0.871 | 103.3 | 24.4 | 1.31 | 1.303 | 48.1 | 0.833 | 2.978 | 95.1 | 178.9 | --- | --- | 0.12 | 0.176 | 95.7 | 326.2 | -1.6 | 0.243 |
| 4-3880 | 4-4760 | 0.863 | 103.7 | 24.3 | 1.31 | 1.303 | 48.6 | 0.831 | 2.980 | 94.2 | 179.5 | --- | --- | 0.12 | 0.176 | 92.7 | 325.7 | -1.6 | 0.242 |
| 4-3880 | 4-4780 | 0.855 | 104.2 | 24.3 | 1.31 | 1.303 | 49.0 | 0.828 | 2.983 | 93.3 | 180.0 | --- | 5.455 | 0.12 | 0.177 | 89.8 | 325.3 | -1.7 | 0.240 |
| 4-3880 | 4-4800 | 0.846 | 104.7 | 24.3 | 1.30 | 1.304 | 49.5 | 0.826 | 2.988 | 92.3 | 180.6 | --- | 5.456 | 0.12 | 0.179 | 87.1 | 324.9 | -1.7 | 0.239 |
| 4-3880 | 4-4820 | 0.838 | 105.2 | 24.3 | 1.30 | 1.304 | 50.0 | 0.824 | 2.994 | 91.4 | 181.2 | --- | 5.460 | 0.12 | 0.181 | 84.5 | 324.5 | -1.7 | 0.238 |
| 4-3880 | 4-4840 | 0.830 | 105.8 | 24.2 | 1.30 | 1.304 | 50.4 | 0.821 | 3.001 | 90.4 | 181.7 | --- | 5.466 | 0.12 | 0.183 | 82.1 | 324.3 | -1.7 | 0.238 |
| 4-3880 | 4-4860 | 0.822 | 106.3 | 24.2 | 1.29 | 1.304 | 50.9 | 0.819 | 3.009 | 89.5 | 182.3 | --- | 5.473 | 0.12 | 0.185 | 79.9 | 324.1 | -1.7 | 0.237 |
| 4-3880 | 4-4880 | 0.814 | 106.8 | 24.2 | 1.29 | 1.305 | 51.4 | 0.817 | 3.018 | 88.5 | 182.8 | --- | 5.482 | 0.12 | 0.188 | 77.8 | 323.9 | -1.7 | 0.237 |
| 4-3880 | 4-4900 | 0.806 | 107.4 | 24.1 | 1.29 | 1.305 | 51.8 | 0.815 | 3.027 | 87.5 | 183.3 | --- | 5.493 | 0.12 | 0.191 | 75.8 | 323.9 | -1.7 | 0.237 |
| 4-3880 | 4-4920 | 0.798 | 107.9 | 24.1 | 1.29 | 1.306 | 52.3 | 0.813 | 3.037 | 86.5 | 183.8 | --- | 5.505 | 0.12 | 0.194 | 73.9 | 323.8 | -1.7 | 0.237 |
| 4-3880 | 4-4940 | 0.790 | 108.5 | 24.1 | 1.28 | 1.306 | 52.8 | 0.810 | 3.048 | 85.5 | 184.4 | --- | 5.518 | 0.12 | 0.197 | 72.2 | 323.9 | -1.7 | 0.237 |
| 4-3880 | 4-4960 | 0.782 | 109.0 | 24.0 | 1.28 | 1.307 | 53.2 | 0.808 | 3.059 | 84.5 | 184.9 | --- | 5.532 | 0.12 | 0.200 | 70.6 | 324.0 | -1.7 | 0.238 |
| 4-3880 | 4-4980 | 0.774 | 109.6 | 24.0 | 1.28 | 1.307 | 53.7 | 0.807 | 3.070 | 83.5 | 185.4 | --- | 5.546 | 0.12 | 0.204 | 69.1 | 324.1 | -1.7 | 0.238 |
| 4-3880 | 4-5000 | 0.766 | 110.2 | 23.9 | 1.27 | 1.308 | 54.2 | 0.805 | 3.082 | 82.5 | 185.8 | --- | 5.562 | 0.12 | 0.207 | 67.7 | 324.3 | -1.7 | 0.238 |
| 4-3880 | 4-5020 | 0.758 | 110.8 | 23.9 | 1.27 | 1.308 | 54.7 | 0.803 | 3.095 | 81.4 | 186.3 | --- | 5.579 | 0.12 | 0.210 | 66.4 | 324.5 | -1.7 | 0.239 |
| 4-3880 | 4-5040 | 0.750 | 111.4 | 23.8 | 1.27 | 1.309 | 55.1 | 0.801 | 3.107 | 80.4 | 186.8 | --- | 5.596 | 0.12 | 0.214 | 65.1 | 324.8 | -1.7 | 0.240 |
| 4-3880 | 4-5060 | 0.741 | 112.0 | 23.8 | 1.26 | 1.309 | 55.6 | 0.799 | 3.121 | 79.4 | 187.3 | --- | 5.614 | 0.12 | 0.217 | 64.0 | 325.2 | -1.7 | 0.240 |
| 4-3880 | 4-5080 | 0.733 | 112.6 | 23.7 | 1.26 | 1.310 | 56.1 | 0.797 | 3.134 | 78.3 | 187.8 | --- | 5.632 | 0.12 | 0.221 | 62.9 | 325.5 | -1.6 | 0.241 |
| 4-3880 | 4-5100 | 0.725 | 113.2 | 23.6 | 1.26 | 1.310 | 56.6 | 0.795 | 3.147 | 77.2 | 188.2 | --- | 5.651 | 0.12 | 0.224 | 61.9 | 326.0 | -1.6 | 0.242 |
| 4-3880 | 4-5120 | 0.717 | 113.9 | 23.6 | 1.25 | 1.311 | 57.1 | 0.794 | 3.161 | 76.2 | 188.7 | --- | 5.670 | 0.13 | 0.228 | 60.9 | 326.4 | -1.6 | 0.243 |
| 4-3880 | 4-5140 | 0.709 | 114.5 | 23.5 | 1.25 | 1.311 | 57.5 | 0.792 | 3.175 | 75.1 | 189.1 | --- | 5.690 | 0.13 | 0.231 | 60.0 | 326.9 | -1.6 | 0.244 |
| 4-3880 | 4-5160 | 0.701 | 115.2 | 23.4 | 1.24 | 1.312 | 58.0 | 0.790 | 3.190 | 74.0 | 189.6 | --- | 5.711 | 0.13 | 0.235 | 59.2 | 327.4 | -1.5 | 0.245 |
| 4-3880 | 4-5180 | 0.693 | 115.9 | 23.4 | 1.24 | 1.312 | 58.5 | 0.789 | 3.204 | 73.0 | 190.0 | --- | 5.731 | 0.13 | 0.238 | 58.4 | 328.0 | -1.5 | 0.246 |
| 4-3880 | 4-5200 | 0.684 | 116.5 | 23.3 | 1.24 | 1.313 | 59.0 | 0.787 | 3.219 | 71.9 | 190.5 | --- | 5.752 | 0.13 | 0.242 | 57.6 | 328.6 | -1.5 | 0.247 |
| 4-3880 | 4-5220 | 0.676 | 117.2 | 23.2 | 1.23 | 1.313 | 59.5 | 0.786 | 3.233 | 70.8 | 190.9 | --- | 5.773 | 0.13 | 0.245 | 56.9 | 329.3 | -1.5 | 0.248 |
| 4-3880 | 4-5240 | 0.668 | 117.9 | 23.1 | 1.23 | 1.314 | 60.0 | 0.784 | 3.248 | 69.7 | 191.4 | --- | 5.795 | 0.14 | 0.249 | 56.3 | 329.9 | -1.4 | 0.249 |
| 4-3880 | 4-5260 | 0.660 | 118.7 | 23.0 | 1.22 | 1.314 | 60.5 | 0.783 | 3.263 | 68.6 | 191.8 | --- | 5.817 | 0.14 | 0.252 | 55.6 | 330.6 | -1.4 | 0.250 |
| 4-3880 | 4-5280 | 0.652 | 119.4 | 22.9 | 1.22 | 1.315 | 61.0 | 0.781 | 3.278 | 67.5 | 192.2 | --- | 5.839 | 0.14 | 0.255 | 55.0 | 331.3 | -1.4 | 0.251 |
| 4-3880 | 4-5300 | 0.643 | 120.1 | 22.8 | 1.22 | 1.315 | 61.4 | 0.780 | 3.293 | 66.4 | 192.6 | --- | 5.861 | 0.14 | 0.259 | 54.5 | 332.1 | -1.3 | 0.252 |
| 4-3880 | 4-5320 | 0.635 | 120.9 | 22.7 | 1.21 | 1.316 | 61.9 | 0.778 | 3.308 | 65.2 | 193.1 | --- | 5.883 | 0.15 | 0.262 | 53.9 | 332.9 | -1.3 | 0.253 |
| 4-3880 | 4-5340 | 0.627 | 121.6 | 22.6 | 1.20 | 1.316 | 62.4 | 0.777 | 3.324 | 64.1 | 193.5 | --- | 5.906 | 0.15 | 0.265 | 53.4 | 333.7 | -1.2 | 0.255 |
| 4-3880 | 4-5360 | 0.619 | 122.4 | 22.4 | 1.20 | 1.317 | 62.9 | 0.776 | 3.339 | 63.0 | 193.9 | --- | 5.929 | 0.15 | 0.268 | 53.0 | 334.5 | -1.2 | 0.256 |
| 4-3880 | 4-5380 | 0.611 | 123.2 | 22.3 | 1.19 | 1.318 | 63.4 | 0.774 | 3.354 | 61.8 | 194.3 | --- | 5.952 | 0.16 | 0.272 | 52.5 | 335.4 | -1.1 | 0.257 |
| 4-3880 | 4-5400 | 0.602 | 124.0 | 22.2 | 1.19 | 1.318 | 63.9 | 0.773 | 3.370 | 60.7 | 194.7 | --- | 5.975 | 0.16 | 0.275 | 52.1 | 336.3 | -1.1 | 0.258 |
| 4-3880 | 4-5420 | 0.594 | 124.9 | 22.0 | 1.18 | 1.319 | 64.4 | 0.772 | 3.385 | 59.6 | 195.1 | --- | 5.998 | 0.17 | 0.278 | 51.7 | 337.2 | -1.1 | 0.259 |
| 4-3880 | 4-5440 | 0.586 | 125.7 | 21.9 | 1.18 | 1.319 | 64.9 | 0.771 | 3.401 | 58.4 | 195.5 | --- | 6.022 | 0.17 | 0.281 | 51.3 | 338.1 | -1.0 | 0.261 |
| 4-3880 | 4-5460 | 0.578 | 126.6 | 21.7 | 1.17 | 1.320 | 65.4 | 0.770 | 3.416 | 57.2 | 195.9 | --- | 6.045 | 0.18 | 0.284 | 50.9 | 339.0 | -1.0 | 0.262 |
| 4-3880 | 4-5480 | 0.570 | 127.5 | 21.5 | 1.16 | 1.320 | 66.0 | 0.768 | 3.432 | 56.1 | 196.3 | --- | 6.069 | 0.18 | 0.287 | 50.5 | 340.0 | -0.9 | 0.263 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3890 | 4-4230 | 1.275 | 101.4 | 24.0 | 1.76 | 1.413 | 29.1 | 0.99228 | 8.139 | 122.7 | 157.3 | --- | --- | 0.61 | 0.580 | 167.5 | 345.2 | -0.7 | 0.627 |
| 4-3890 | 4-4250 | 1.251 | 101.3 | 24.0 | 1.73 | 1.395 | 29.7 | 0.98011 | 8.450 | 122.8 | 158.9 | --- | --- | 0.58 | 0.533 | 166.3 | 344.6 | -0.7 | 0.585 |
| 4-3890 | 4-4270 | 1.230 | 101.2 | 24.0 | 1.70 | 1.380 | 30.3 | 0.969 | 7.691 | 122.7 | 160.4 | --- | --- | 0.56 | 0.491 | 165.0 | 344.0 | -0.7 | 0.547 |
| 4-3890 | 4-4290 | 1.211 | 101.2 | 24.0 | 1.68 | 1.367 | 30.9 | 0.960 | 6.045 | 122.5 | 161.8 | --- | --- | 0.54 | 0.453 | 163.6 | 343.3 | -0.7 | 0.514 |
| 4-3890 | 4-4310 | 1.194 | 101.3 | 24.0 | 1.66 | 1.356 | 31.5 | 0.952 | 5.130 | 122.2 | 163.0 | --- | --- | 0.53 | 0.419 | 162.1 | 342.5 | -0.8 | 0.484 |
| 4-3890 | 4-4330 | 1.178 | 101.5 | 24.0 | 1.64 | 1.347 | 32.0 | 0.944 | 4.553 | 121.9 | 164.2 | --- | --- | 0.51 | 0.388 | 160.4 | 341.8 | -0.8 | 0.458 |
| 4-3890 | 4-4350 | 1.163 | 101.6 | 24.0 | 1.62 | 1.339 | 32.6 | 0.938 | 4.160 | 121.4 | 165.3 | --- | --- | 0.50 | 0.360 | 158.6 | 340.9 | -0.9 | 0.434 |
| 4-3890 | 4-4370 | 1.149 | 101.8 | 24.0 | 1.60 | 1.332 | 33.1 | 0.932 | 3.879 | 120.9 | 166.3 | --- | --- | 0.48 | 0.334 | 156.7 | 340.1 | -0.9 | 0.413 |
| 4-3890 | 4-4390 | 1.136 | 102.1 | 24.0 | 1.58 | 1.327 | 33.7 | 0.926 | 3.670 | 120.3 | 167.3 | --- | --- | 0.47 | 0.311 | 154.6 | 339.2 | -0.9 | 0.394 |
| 4-3890 | 4-4410 | 1.124 | 102.3 | 24.0 | 1.56 | 1.322 | 34.2 | 0.921 | 3.510 | 119.7 | 168.2 | --- | --- | 0.46 | 0.290 | 152.3 | 338.2 | -1.0 | 0.377 |
| 4-3890 | 4-4430 | 1.112 | 102.6 | 24.0 | 1.55 | 1.318 | 34.7 | 0.916 | 3.385 | 119.1 | 169.1 | --- | --- | 0.45 | 0.271 | 149.8 | 337.3 | -1.0 | 0.362 |
| 4-3890 | 4-4450 | 1.101 | 102.9 | 24.0 | 1.53 | 1.315 | 35.3 | 0.911 | 3.287 | 118.4 | 169.9 | --- | --- | 0.44 | 0.254 | 147.2 | 336.3 | -1.1 | 0.348 |
| 4-3890 | 4-4470 | 1.090 | 103.3 | 24.0 | 1.52 | 1.312 | 35.8 | 0.907 | 3.209 | 117.6 | 170.7 | --- | --- | 0.43 | 0.238 | 144.3 | 335.4 | -1.1 | 0.336 |
| 4-3890 | 4-4490 | 1.079 | 103.6 | 23.9 | 1.50 | 1.310 | 36.3 | 0.903 | 3.146 | 116.9 | 171.5 | --- | --- | 0.42 | 0.224 | 141.3 | 334.4 | -1.1 | 0.325 |
| 4-3890 | 4-4510 | 1.069 | 104.0 | 23.9 | 1.49 | 1.308 | 36.8 | 0.899 | 3.096 | 116.1 | 172.2 | --- | --- | 0.41 | 0.212 | 138.0 | 333.4 | -1.2 | 0.315 |
| 4-3890 | 4-4530 | 1.059 | 104.4 | 23.9 | 1.48 | 1.306 | 37.4 | 0.895 | 3.055 | 115.3 | 172.9 | --- | --- | 0.41 | 0.201 | 134.6 | 332.5 | -1.2 | 0.306 |
| 4-3890 | 4-4550 | 1.049 | 104.8 | 23.9 | 1.46 | 1.305 | 37.9 | 0.891 | 3.022 | 114.4 | 173.6 | --- | --- | 0.40 | 0.192 | 131.0 | 331.6 | -1.3 | 0.299 |
| 4-3890 | 4-4570 | 1.039 | 105.2 | 23.8 | 1.45 | 1.304 | 38.4 | 0.888 | 2.996 | 113.6 | 174.3 | --- | --- | 0.39 | 0.184 | 127.2 | 330.7 | -1.3 | 0.292 |
| 4-3890 | 4-4590 | 1.030 | 105.6 | 23.8 | 1.44 | 1.303 | 38.9 | 0.885 | 2.976 | 112.7 | 174.9 | --- | --- | 0.39 | 0.177 | 123.3 | 329.8 | -1.3 | 0.286 |
| 4-3890 | 4-4610 | 1.020 | 106.0 | 23.8 | 1.43 | 1.302 | 39.4 | 0.881 | 2.960 | 111.8 | 175.5 | --- | --- | 0.38 | 0.171 | 119.4 | 329.0 | -1.4 | 0.280 |
| 4-3890 | 4-4630 | 1.011 | 106.4 | 23.8 | 1.42 | 1.302 | 39.9 | 0.878 | 2.948 | 110.9 | 176.2 | --- | --- | 0.38 | 0.167 | 115.4 | 328.2 | -1.4 | 0.276 |
| 4-3890 | 4-4650 | 1.002 | 106.9 | 23.7 | 1.41 | 1.301 | 40.4 | 0.875 | 2.939 | 110.0 | 176.8 | --- | --- | 0.37 | 0.164 | 111.4 | 327.5 | -1.4 | 0.271 |
| 4-3890 | 4-4670 | 0.993 | 107.3 | 23.7 | 1.40 | 1.301 | 40.9 | 0.872 | 2.933 | 109.1 | 177.3 | --- | --- | 0.37 | 0.161 | 107.4 | 326.8 | -1.5 | 0.268 |
| 4-3890 | 4-4690 | 0.984 | 107.8 | 23.7 | 1.39 | 1.301 | 41.5 | 0.869 | 2.930 | 108.1 | 177.9 | --- | --- | 0.37 | 0.160 | 103.6 | 326.2 | -1.5 | 0.265 |
| 4-3890 | 4-4710 | 0.975 | 108.3 | 23.6 | 1.38 | 1.301 | 42.0 | 0.866 | 2.929 | 107.2 | 178.5 | --- | --- | 0.36 | 0.159 | 99.8 | 325.6 | -1.5 | 0.262 |
| 4-3890 | 4-4730 | 0.966 | 108.7 | 23.6 | 1.37 | 1.301 | 42.5 | 0.863 | 2.930 | 106.2 | 179.0 | --- | --- | 0.36 | 0.159 | 96.2 | 325.1 | -1.5 | 0.260 |
| 4-3890 | 4-4750 | 0.957 | 109.2 | 23.5 | 1.36 | 1.301 | 43.0 | 0.860 | 2.932 | 105.2 | 179.5 | --- | --- | 0.36 | 0.160 | 92.8 | 324.7 | -1.6 | 0.258 |
| 4-3890 | 4-4770 | 0.948 | 109.7 | 23.5 | 1.35 | 1.301 | 43.5 | 0.858 | 2.936 | 104.3 | 180.1 | --- | 5.455 | 0.36 | 0.161 | 89.5 | 324.3 | -1.6 | 0.256 |
| 4-3890 | 4-4790 | 0.939 | 110.2 | 23.4 | 1.34 | 1.301 | 44.0 | 0.855 | 2.941 | 103.3 | 180.6 | --- | 5.456 | 0.35 | 0.163 | 86.5 | 324.0 | -1.6 | 0.255 |
| 4-3890 | 4-4810 | 0.931 | 110.7 | 23.4 | 1.33 | 1.302 | 44.5 | 0.853 | 2.948 | 102.3 | 181.1 | --- | 5.461 | 0.35 | 0.166 | 83.6 | 323.7 | -1.6 | 0.254 |
| 4-3890 | 4-4830 | 0.922 | 111.2 | 23.3 | 1.32 | 1.302 | 45.0 | 0.850 | 2.955 | 101.3 | 181.6 | --- | 5.467 | 0.35 | 0.168 | 80.9 | 323.5 | -1.6 | 0.253 |
| 4-3890 | 4-4850 | 0.913 | 111.7 | 23.3 | 1.31 | 1.302 | 45.5 | 0.847 | 2.963 | 100.3 | 182.1 | --- | 5.475 | 0.35 | 0.171 | 78.5 | 323.3 | -1.6 | 0.252 |
| 4-3890 | 4-4870 | 0.905 | 112.2 | 23.2 | 1.30 | 1.303 | 46.0 | 0.845 | 2.973 | 99.2 | 182.6 | --- | 5.485 | 0.35 | 0.174 | 76.1 | 323.2 | -1.6 | 0.252 |
| 4-3890 | 4-4890 | 0.896 | 112.7 | 23.2 | 1.29 | 1.303 | 46.5 | 0.843 | 2.983 | 98.2 | 183.1 | --- | 5.496 | 0.35 | 0.177 | 74.0 | 323.2 | -1.6 | 0.252 |
| 4-3890 | 4-4910 | 0.887 | 113.2 | 23.1 | 1.28 | 1.304 | 47.0 | 0.840 | 2.993 | 97.2 | 183.6 | --- | 5.508 | 0.34 | 0.181 | 72.0 | 323.2 | -1.6 | 0.251 |
| 4-3890 | 4-4930 | 0.879 | 113.8 | 23.1 | 1.27 | 1.304 | 47.5 | 0.838 | 3.004 | 96.2 | 184.0 | --- | 5.521 | 0.34 | 0.185 | 70.2 | 323.3 | -1.6 | 0.251 |
| 4-3890 | 4-4950 | 0.870 | 114.3 | 23.0 | 1.26 | 1.304 | 48.0 | 0.836 | 3.016 | 95.1 | 184.5 | --- | 5.536 | 0.34 | 0.188 | 68.5 | 323.4 | -1.6 | 0.251 |
| 4-3890 | 4-4970 | 0.861 | 114.9 | 22.9 | 1.25 | 1.305 | 48.5 | 0.833 | 3.028 | 94.1 | 185.0 | --- | 5.551 | 0.34 | 0.192 | 66.9 | 323.6 | -1.6 | 0.252 |
| 4-3890 | 4-4990 | 0.853 | 115.4 | 22.9 | 1.24 | 1.306 | 49.1 | 0.831 | 3.041 | 93.0 | 185.4 | --- | 5.567 | 0.34 | 0.196 | 65.5 | 323.8 | -1.6 | 0.252 |
| 4-3890 | 4-5010 | 0.844 | 116.0 | 22.8 | 1.24 | 1.306 | 49.6 | 0.829 | 3.054 | 91.9 | 185.9 | --- | 5.584 | 0.35 | 0.200 | 64.1 | 324.1 | -1.6 | 0.252 |
| 4-3890 | 4-5030 | 0.835 | 116.5 | 22.7 | 1.23 | 1.307 | 50.1 | 0.827 | 3.067 | 90.9 | 186.4 | --- | 5.602 | 0.35 | 0.203 | 62.9 | 324.4 | -1.5 | 0.253 |
| 4-3890 | 4-5050 | 0.827 | 117.1 | 22.6 | 1.22 | 1.307 | 50.6 | 0.825 | 3.080 | 89.8 | 186.8 | --- | 5.620 | 0.35 | 0.207 | 61.7 | 324.8 | -1.5 | 0.253 |
| 4-3890 | 4-5070 | 0.818 | 117.7 | 22.5 | 1.21 | 1.308 | 51.1 | 0.822 | 3.094 | 88.7 | 187.2 | --- | 5.639 | 0.35 | 0.211 | 60.6 | 325.2 | -1.5 | 0.254 |
| 4-3890 | 4-5090 | 0.810 | 118.2 | 22.5 | 1.20 | 1.308 | 51.6 | 0.820 | 3.108 | 87.7 | 187.7 | --- | 5.658 | 0.35 | 0.215 | 59.6 | 325.6 | -1.5 | 0.255 |
| 4-3890 | 4-5110 | 0.801 | 118.8 | 22.4 | 1.19 | 1.309 | 52.1 | 0.818 | 3.123 | 86.6 | 188.1 | --- | 5.678 | 0.35 | 0.219 | 58.6 | 326.1 | -1.5 | 0.255 |
| 4-3890 | 4-5130 | 0.792 | 119.4 | 22.3 | 1.18 | 1.309 | 52.6 | 0.816 | 3.137 | 85.5 | 188.6 | --- | 5.699 | 0.35 | 0.223 | 57.8 | 326.6 | -1.4 | 0.256 |
| 4-3890 | 4-5150 | 0.784 | 120.0 | 22.2 | 1.17 | 1.310 | 53.1 | 0.814 | 3.152 | 84.4 | 189.0 | --- | 5.719 | 0.36 | 0.227 | 56.9 | 327.2 | -1.4 | 0.257 |
| 4-3890 | 4-5170 | 0.775 | 120.6 | 22.1 | 1.16 | 1.311 | 53.6 | 0.812 | 3.167 | 83.3 | 189.4 | --- | 5.740 | 0.36 | 0.230 | 56.2 | 327.7 | -1.4 | 0.258 |
| 4-3890 | 4-5190 | 0.766 | 121.2 | 22.0 | 1.15 | 1.311 | 54.1 | 0.810 | 3.182 | 82.2 | 189.9 | --- | 5.761 | 0.36 | 0.234 | 55.5 | 328.4 | -1.3 | 0.258 |
| 4-3890 | 4-5210 | 0.758 | 121.9 | 21.9 | 1.14 | 1.312 | 54.6 | 0.809 | 3.198 | 81.1 | 190.3 | --- | 5.783 | 0.36 | 0.238 | 54.8 | 329.0 | -1.3 | 0.259 |
| 4-3890 | 4-5230 | 0.749 | 122.5 | 21.8 | 1.13 | 1.312 | 55.1 | 0.807 | 3.213 | 80.0 | 190.7 | --- | 5.805 | 0.37 | 0.241 | 54.1 | 329.7 | -1.3 | 0.260 |
| 4-3890 | 4-5250 | 0.740 | 123.1 | 21.6 | 1.12 | 1.313 | 55.6 | 0.805 | 3.228 | 78.9 | 191.1 | --- | 5.827 | 0.37 | 0.245 | 53.5 | 330.4 | -1.2 | 0.261 |
| 4-3890 | 4-5270 | 0.732 | 123.8 | 21.5 | 1.11 | 1.313 | 56.2 | 0.803 | 3.244 | 77.7 | 191.5 | --- | 5.849 | 0.38 | 0.249 | 53.0 | 331.1 | -1.2 | 0.262 |
| 4-3890 | 4-5290 | 0.723 | 124.4 | 21.4 | 1.10 | 1.314 | 56.7 | 0.801 | 3.260 | 76.6 | 191.9 | --- | 5.872 | 0.38 | 0.252 | 52.5 | 331.9 | -1.2 | 0.263 |
| 4-3890 | 4-5310 | 0.714 | 125.1 | 21.3 | 1.08 | 1.314 | 57.2 | 0.800 | 3.275 | 75.5 | 192.4 | --- | 5.895 | 0.39 | 0.256 | 52.0 | 332.7 | -1.1 | 0.264 |
| 4-3890 | 4-5330 | 0.706 | 125.8 | 21.1 | 1.07 | 1.315 | 57.7 | 0.798 | 3.291 | 74.4 | 192.8 | --- | 5.917 | 0.39 | 0.259 | 51.5 | 333.5 | -1.1 | 0.265 |
| 4-3890 | 4-5350 | 0.697 | 126.5 | 21.0 | 1.06 | 1.316 | 58.2 | 0.796 | 3.307 | 73.2 | 193.2 | --- | 5.940 | 0.40 | 0.263 | 51.0 | 334.3 | -1.0 | 0.266 |
| 4-3890 | 4-5370 | 0.688 | 127.2 | 20.8 | 1.05 | 1.316 | 58.7 | 0.795 | 3.323 | 72.1 | 193.6 | --- | 5.964 | 0.40 | 0.266 | 50.6 | 335.2 | -1.0 | 0.267 |
| 4-3890 | 4-5390 | 0.680 | 127.9 | 20.7 | 1.04 | 1.317 | 59.2 | 0.793 | 3.339 | 70.9 | 194.0 | --- | 5.987 | 0.41 | 0.269 | 50.2 | 336.1 | -0.9 | 0.268 |
| 4-3890 | 4-5410 | 0.671 | 128.6 | 20.5 | 1.02 | 1.317 | 59.8 | 0.792 | 3.355 | 69.8 | 194.4 | --- | 6.010 | 0.42 | 0.273 | 49.9 | 337.0 | -0.9 | 0.269 |
| 4-3890 | 4-5430 | 0.662 | 129.3 | 20.3 | 1.01 | 1.318 | 60.3 | 0.790 | 3.371 | 68.6 | 194.8 | --- | 6.034 | 0.43 | 0.276 | 49.5 | 337.9 | -0.8 | 0.270 |
| 4-3890 | 4-5450 | 0.654 | 130.1 | 20.2 | 0.99 | 1.318 | 60.8 | 0.788 | 3.387 | 67.4 | 195.2 | --- | 6.057 | 0.44 | 0.279 | 49.2 | 338.8 | -0.8 | 0.271 |
| 4-3890 | 4-5470 | 0.645 | 130.8 | 20.0 | 0.98 | 1.319 | 61.3 | 0.787 | 3.403 | 66.3 | 195.6 | --- | 6.081 | 0.44 | 0.282 | 48.8 | 339.8 | -0.7 | 0.272 |
| 4-3890 | 4-5490 | 0.636 | 131.6 | 19.8 | 0.96 | 1.319 | 61.8 | 0.786 | 3.419 | 65.1 | 196.0 | --- | 6.105 | 0.46 | 0.285 | 48.5 | 340.8 | -0.7 | 0.273 |
| 4-3900 | 4-4240 | 1.398 | 105.7 | 23.5 | 2.37 | 1.406 | 21.3 | 0.99318 | 8.025 | 138.5 | 163.7 | --- | --- | 1.32 | 0.562 | 170.4 | 342.9 | -0.7 | 0.633 |
| 4-3900 | 4-4260 | 1.371 | 105.8 | 23.5 | 2.29 | 1.388 | 22.1 | 0.986 | 9.455 | 137.9 | 164.7 | --- | --- | 1.25 | 0.515 | 169.3 | 342.3 | -0.7 | 0.591 |
| 4-3900 | 4-4280 | 1.348 | 105.9 | 23.5 | 2.22 | 1.373 | 22.9 | 0.979 | 6.797 | 137.3 | 165.6 | --- | --- | 1.18 | 0.473 | 168.1 | 341.6 | -0.8 | 0.555 |
| 4-3900 | 4-4300 | 1.326 | 106.1 | 23.5 | 2.16 | 1.360 | 23.6 | 0.974 | 5.514 | 136.6 | 166.5 | --- | --- | 1.13 | 0.435 | 166.8 | 340.8 | -0.8 | 0.522 |
| 4-3900 | 4-4320 | 1.307 | 106.3 | 23.5 | 2.10 | 1.350 | 24.3 | 0.968 | 4.767 | 135.9 | 167.3 | --- | --- | 1.08 | 0.401 | 165.3 | 340.0 | -0.8 | 0.493 |
| 4-3900 | 4-4340 | 1.289 | 106.6 | 23.5 | 2.04 | 1.341 | 25.0 | 0.963 | 4.282 | 135.2 | 168.1 | --- | --- | 1.03 | 0.370 | 163.7 | 339.2 | -0.9 | 0.467 |
| 4-3900 | 4-4360 | 1.272 | 106.9 | 23.5 | 2.00 | 1.333 | 25.7 | 0.958 | 3.946 | 134.4 | 168.9 | --- | --- | 0.99 | 0.341 | 162.0 | 338.3 | -0.9 | 0.444 |
| 4-3900 | 4-4380 | 1.256 | 107.2 | 23.4 | 1.95 | 1.327 | 26.4 | 0.953 | 3.702 | 133.6 | 169.6 | --- | --- | 0.95 | 0.315 | 160.1 | 337.4 | -0.9 | 0.424 |
| 4-3900 | 4-4400 | 1.242 | 107.5 | 23.4 | 1.91 | 1.322 | 27.1 | 0.949 | 3.520 | 132.7 | 170.3 | --- | --- | 0.92 | 0.292 | 158.0 | 336.5 | -1.0 | 0.405 |
| 4-3900 | 4-4420 | 1.228 | 107.9 | 23.4 | 1.87 | 1.317 | 27.7 | 0.945 | 3.380 | 131.8 | 170.9 | --- | --- | 0.89 | 0.270 | 155.7 | 335.6 | -1.0 | 0.389 |
| 4-3900 | 4-4440 | 1.214 | 108.2 | 23.3 | 1.83 | 1.314 | 28.4 | 0.941 | 3.271 | 131.0 | 171.6 | --- | --- | 0.86 | 0.251 | 153.2 | 334.7 | -1.1 | 0.374 |
| 4-3900 | 4-4460 | 1.202 | 108.6 | 23.3 | 1.80 | 1.310 | 29.0 | 0.937 | 3.185 | 130.1 | 172.2 | --- | --- | 0.84 | 0.234 | 150.4 | 333.7 | -1.1 | 0.361 |
| 4-3900 | 4-4480 | 1.189 | 109.0 | 23.3 | 1.77 | 1.308 | 29.6 | 0.933 | 3.116 | 129.1 | 172.8 | --- | --- | 0.81 | 0.218 | 147.4 | 332.8 | -1.1 | 0.349 |
| 4-3900 | 4-4500 | 1.178 | 109.4 | 23.2 | 1.74 | 1.306 | 30.2 | 0.929 | 3.061 | 128.2 | 173.4 | --- | --- | 0.79 | 0.204 | 144.2 | 331.9 | -1.2 | 0.339 |
| 4-3900 | 4-4520 | 1.166 | 109.8 | 23.2 | 1.71 | 1.304 | 30.8 | 0.925 | 3.017 | 127.3 | 174.0 | --- | --- | 0.77 | 0.191 | 140.7 | 331.0 | -1.2 | 0.329 |
| 4-3900 | 4-4540 | 1.155 | 110.3 | 23.1 | 1.68 | 1.302 | 31.4 | 0.922 | 2.982 | 126.3 | 174.5 | --- | --- | 0.75 | 0.180 | 136.9 | 330.1 | -1.2 | 0.321 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3900 | 4-4560 | 1.144 | 110.7 | 23.1 | 1.65 | 1.301 | 32.0 | 0.919 | 2.954 | 125.3 | 175.1 | --- | --- | 0.74 | 0.170 | 132.9 | 329.3 | -1.3 | 0.314 |
| 4-3900 | 4-4580 | 1.133 | 111.1 | 23.0 | 1.63 | 1.300 | 32.6 | 0.915 | 2.932 | 124.3 | 175.6 | --- | --- | 0.72 | 0.162 | 128.7 | 328.5 | -1.3 | 0.307 |
| 4-3900 | 4-4600 | 1.123 | 111.6 | 23.0 | 1.60 | 1.299 | 33.2 | 0.912 | 2.915 | 123.4 | 176.1 | --- | --- | 0.70 | 0.156 | 124.2 | 327.7 | -1.3 | 0.301 |
| 4-3900 | 4-4620 | 1.112 | 112.0 | 22.9 | 1.56 | 1.299 | 33.8 | 0.909 | 2.902 | 122.4 | 176.7 | --- | --- | 0.69 | 0.150 | 119.7 | 327.0 | -1.4 | 0.296 |
| 4-3900 | 4-4640 | 1.102 | 112.5 | 22.9 | 1.56 | 1.298 | 34.4 | 0.906 | 2.893 | 121.3 | 177.2 | --- | --- | 0.68 | 0.146 | 115.1 | 326.3 | -1.4 | 0.291 |
| 4-3900 | 4-4660 | 1.092 | 113.0 | 22.8 | 1.54 | 1.298 | 34.9 | 0.902 | 2.887 | 120.3 | 177.7 | --- | --- | 0.67 | 0.143 | 110.5 | 325.7 | -1.4 | 0.287 |
| 4-3900 | 4-4680 | 1.082 | 113.4 | 22.8 | 1.52 | 1.298 | 35.5 | 0.899 | 2.883 | 119.3 | 178.2 | --- | --- | 0.66 | 0.142 | 105.9 | 325.2 | -1.4 | 0.284 |
| 4-3900 | 4-4700 | 1.072 | 113.9 | 22.7 | 1.50 | 1.298 | 36.1 | 0.896 | 2.882 | 118.3 | 178.6 | --- | --- | 0.65 | 0.141 | 101.5 | 324.6 | -1.5 | 0.281 |
| 4-3900 | 4-4720 | 1.063 | 114.4 | 22.6 | 1.48 | 1.298 | 36.6 | 0.893 | 2.883 | 117.3 | 179.1 | --- | --- | 0.64 | 0.141 | 97.3 | 324.2 | -1.5 | 0.278 |
| 4-3900 | 4-4740 | 1.053 | 114.9 | 22.6 | 1.46 | 1.298 | 37.2 | 0.891 | 2.885 | 116.2 | 179.6 | --- | --- | 0.63 | 0.142 | 93.2 | 323.8 | -1.5 | 0.276 |
| 4-3900 | 4-4760 | 1.044 | 115.4 | 22.5 | 1.44 | 1.298 | 37.8 | 0.888 | 2.889 | 115.2 | 180.1 | --- | 5.454 | 0.62 | 0.144 | 89.4 | 323.5 | -1.5 | 0.274 |
| 4-3900 | 4-4780 | 1.034 | 115.8 | 22.4 | 1.42 | 1.298 | 38.3 | 0.885 | 2.895 | 114.1 | 180.5 | --- | 5.456 | 0.61 | 0.146 | 85.9 | 323.2 | -1.5 | 0.273 |
| 4-3900 | 4-4800 | 1.025 | 116.3 | 22.4 | 1.41 | 1.299 | 38.9 | 0.882 | 2.902 | 113.1 | 181.0 | --- | 5.461 | 0.61 | 0.148 | 82.6 | 323.0 | -1.5 | 0.271 |
| 4-3900 | 4-4820 | 1.015 | 116.8 | 22.3 | 1.39 | 1.299 | 39.4 | 0.879 | 2.909 | 112.0 | 181.4 | --- | 5.467 | 0.60 | 0.151 | 79.6 | 322.8 | -1.5 | 0.270 |
| 4-3900 | 4-4840 | 1.006 | 117.3 | 22.2 | 1.37 | 1.299 | 40.0 | 0.877 | 2.918 | 111.0 | 181.9 | --- | 5.476 | 0.59 | 0.155 | 76.8 | 322.7 | -1.5 | 0.269 |
| 4-3900 | 4-4860 | 0.997 | 117.8 | 22.1 | 1.36 | 1.300 | 40.5 | 0.874 | 2.927 | 109.9 | 182.3 | --- | 5.486 | 0.59 | 0.158 | 74.2 | 322.7 | -1.5 | 0.269 |
| 4-3900 | 4-4880 | 0.987 | 118.3 | 22.1 | 1.34 | 1.300 | 41.1 | 0.871 | 2.938 | 108.8 | 182.8 | --- | 5.497 | 0.58 | 0.162 | 71.9 | 322.7 | -1.5 | 0.268 |
| 4-3900 | 4-4900 | 0.978 | 118.9 | 22.0 | 1.32 | 1.301 | 41.6 | 0.869 | 2.949 | 107.8 | 183.2 | --- | 5.510 | 0.58 | 0.166 | 69.7 | 322.7 | -1.5 | 0.268 |
| 4-3900 | 4-4920 | 0.969 | 119.4 | 21.9 | 1.31 | 1.301 | 42.2 | 0.866 | 2.960 | 106.7 | 183.7 | --- | 5.524 | 0.58 | 0.170 | 67.8 | 322.9 | -1.5 | 0.267 |
| 4-3900 | 4-4940 | 0.960 | 119.9 | 21.8 | 1.29 | 1.302 | 42.7 | 0.864 | 2.972 | 105.6 | 184.1 | --- | 5.539 | 0.57 | 0.175 | 66.0 | 323.0 | -1.5 | 0.267 |
| 4-3900 | 4-4960 | 0.951 | 120.4 | 21.7 | 1.28 | 1.302 | 43.2 | 0.861 | 2.985 | 104.5 | 184.5 | --- | 5.555 | 0.57 | 0.179 | 64.3 | 323.2 | -1.5 | 0.267 |
| 4-3900 | 4-4980 | 0.941 | 120.9 | 21.6 | 1.26 | 1.303 | 43.8 | 0.859 | 2.998 | 103.5 | 185.0 | --- | 5.572 | 0.57 | 0.183 | 62.8 | 323.5 | -1.5 | 0.267 |
| 4-3900 | 4-5000 | 0.932 | 121.5 | 21.5 | 1.25 | 1.304 | 44.3 | 0.856 | 3.011 | 102.4 | 185.4 | --- | 5.589 | 0.57 | 0.188 | 61.4 | 323.8 | -1.5 | 0.267 |
| 4-3900 | 4-5020 | 0.923 | 122.0 | 21.4 | 1.23 | 1.304 | 44.9 | 0.854 | 3.025 | 101.3 | 185.8 | --- | 5.607 | 0.56 | 0.192 | 60.1 | 324.1 | -1.4 | 0.268 |
| 4-3900 | 4-5040 | 0.914 | 122.5 | 21.3 | 1.22 | 1.305 | 45.4 | 0.851 | 3.039 | 100.2 | 186.2 | --- | 5.626 | 0.56 | 0.196 | 58.9 | 324.5 | -1.4 | 0.268 |
| 4-3900 | 4-5060 | 0.905 | 123.1 | 21.2 | 1.20 | 1.305 | 45.9 | 0.849 | 3.053 | 99.1 | 186.7 | --- | 5.645 | 0.56 | 0.200 | 57.9 | 324.9 | -1.4 | 0.268 |
| 4-3900 | 4-5080 | 0.896 | 123.6 | 21.1 | 1.19 | 1.306 | 46.5 | 0.847 | 3.068 | 98.0 | 187.1 | --- | 5.665 | 0.56 | 0.205 | 56.9 | 325.4 | -1.4 | 0.269 |
| 4-3900 | 4-5100 | 0.887 | 124.2 | 21.0 | 1.17 | 1.307 | 47.0 | 0.844 | 3.083 | 96.9 | 187.5 | --- | 5.686 | 0.56 | 0.209 | 55.9 | 325.9 | -1.4 | 0.269 |
| 4-3900 | 4-5120 | 0.878 | 124.7 | 20.9 | 1.16 | 1.307 | 47.5 | 0.842 | 3.098 | 95.8 | 187.9 | --- | 5.706 | 0.56 | 0.213 | 55.1 | 326.4 | -1.3 | 0.270 |
| 4-3900 | 4-5140 | 0.869 | 125.3 | 20.8 | 1.14 | 1.308 | 48.1 | 0.840 | 3.113 | 94.7 | 188.3 | --- | 5.728 | 0.56 | 0.217 | 54.3 | 327.0 | -1.3 | 0.270 |
| 4-3900 | 4-5160 | 0.860 | 125.9 | 20.7 | 1.13 | 1.308 | 48.6 | 0.838 | 3.129 | 93.5 | 188.7 | --- | 5.749 | 0.56 | 0.221 | 53.5 | 327.6 | -1.3 | 0.271 |
| 4-3900 | 4-5180 | 0.851 | 126.4 | 20.6 | 1.11 | 1.309 | 49.1 | 0.835 | 3.144 | 92.4 | 189.1 | --- | 5.771 | 0.57 | 0.226 | 52.9 | 328.2 | -1.2 | 0.272 |
| 4-3900 | 4-5200 | 0.841 | 127.0 | 20.4 | 1.10 | 1.310 | 49.7 | 0.833 | 3.160 | 91.3 | 189.5 | --- | 5.793 | 0.57 | 0.230 | 52.2 | 328.9 | -1.2 | 0.272 |
| 4-3900 | 4-5220 | 0.832 | 127.6 | 20.3 | 1.08 | 1.310 | 50.2 | 0.831 | 3.176 | 90.2 | 190.0 | --- | 5.815 | 0.57 | 0.233 | 51.6 | 329.5 | -1.2 | 0.273 |
| 4-3900 | 4-5240 | 0.823 | 128.2 | 20.2 | 1.07 | 1.311 | 50.7 | 0.829 | 3.192 | 89.0 | 190.4 | --- | 5.837 | 0.57 | 0.237 | 51.1 | 330.3 | -1.1 | 0.274 |
| 4-3900 | 4-5260 | 0.814 | 128.8 | 20.0 | 1.05 | 1.311 | 51.3 | 0.827 | 3.208 | 87.9 | 190.8 | --- | 5.860 | 0.58 | 0.241 | 50.5 | 331.0 | -1.1 | 0.274 |
| 4-3900 | 4-5280 | 0.805 | 129.4 | 19.9 | 1.03 | 1.312 | 51.8 | 0.825 | 3.224 | 86.8 | 191.2 | --- | 5.883 | 0.58 | 0.245 | 50.1 | 331.8 | -1.1 | 0.275 |
| 4-3900 | 4-5300 | 0.796 | 130.0 | 19.8 | 1.02 | 1.313 | 52.3 | 0.823 | 3.240 | 85.6 | 191.6 | --- | 5.906 | 0.58 | 0.249 | 49.6 | 332.6 | -1.0 | 0.276 |
| 4-3900 | 4-5320 | 0.787 | 130.6 | 19.6 | 1.00 | 1.313 | 52.9 | 0.821 | 3.256 | 84.5 | 192.0 | --- | 5.929 | 0.59 | 0.253 | 49.2 | 333.4 | -1.0 | 0.277 |
| 4-3900 | 4-5340 | 0.778 | 131.2 | 19.5 | 0.99 | 1.314 | 53.4 | 0.819 | 3.273 | 83.3 | 192.4 | --- | 5.953 | 0.59 | 0.256 | 48.8 | 334.2 | -0.9 | 0.277 |
| 4-3900 | 4-5360 | 0.769 | 131.8 | 19.3 | 0.97 | 1.314 | 53.9 | 0.817 | 3.289 | 82.2 | 192.8 | --- | 5.976 | 0.60 | 0.260 | 48.4 | 335.1 | -0.9 | 0.278 |
| 4-3900 | 4-5380 | 0.760 | 132.4 | 19.1 | 0.95 | 1.315 | 54.5 | 0.815 | 3.305 | 81.0 | 193.1 | --- | 6.000 | 0.61 | 0.263 | 48.1 | 335.9 | -0.8 | 0.279 |
| 4-3900 | 4-5400 | 0.751 | 133.1 | 19.0 | 0.93 | 1.315 | 55.0 | 0.813 | 3.322 | 79.9 | 193.5 | --- | 6.023 | 0.61 | 0.267 | 47.7 | 336.8 | -0.8 | 0.280 |
| 4-3900 | 4-5420 | 0.742 | 133.7 | 18.8 | 0.91 | 1.316 | 55.5 | 0.811 | 3.338 | 78.7 | 193.9 | --- | 6.047 | 0.62 | 0.270 | 47.4 | 337.8 | -0.7 | 0.281 |
| 4-3900 | 4-5440 | 0.733 | 134.4 | 18.6 | 0.90 | 1.317 | 56.1 | 0.809 | 3.355 | 77.5 | 194.3 | --- | 6.071 | 0.63 | 0.274 | 47.1 | 338.7 | -0.7 | 0.282 |
| 4-3900 | 4-5460 | 0.724 | 135.0 | 18.4 | 0.88 | 1.317 | 56.6 | 0.808 | 3.371 | 76.4 | 194.7 | --- | 6.095 | 0.64 | 0.277 | 46.8 | 339.7 | -0.6 | 0.283 |
| 4-3900 | 4-5480 | 0.714 | 135.7 | 18.2 | 0.86 | 1.318 | 57.1 | 0.806 | 3.388 | 75.2 | 195.1 | --- | 6.119 | 0.65 | 0.280 | 46.6 | 340.7 | -0.6 | 0.283 |
| 4-3900 | 4-5500 | 0.705 | 136.4 | 18.0 | 0.83 | 1.318 | 57.7 | 0.804 | 3.405 | 74.0 | 195.5 | --- | 6.143 | 0.66 | 0.284 | 46.3 | 341.6 | -0.5 | 0.284 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4100 | 4-4520 | 0.878 | 133.4 | 14.3 | -2.38 | 1.426 | 128.0 | 1.03 | 717.105 | 285.7 | 497.2 | 0.637 | --- | 1.62 | 0.653 | 161.3 | 16.8 | 1.4 | 0.646 |
| 4-4100 | 4-4540 | 0.847 | 133.0 | 14.4 | -2.30 | 1.407 | 126.9 | 1.00 | 385.937 | 286.3 | 499.4 | 0.648 | --- | 1.56 | 0.611 | 159.9 | 17.0 | 1.4 | 0.604 |
| 4-4100 | 4-4560 | 0.820 | 132.7 | 14.5 | -2.22 | 1.391 | 126.0 | 0.97 | 425.083 | 286.8 | 501.4 | 0.658 | --- | 1.50 | 0.572 | 158.5 | 17.1 | 1.5 | 0.566 |
| 4-4100 | 4-4580 | 0.796 | 132.3 | 14.6 | -2.16 | 1.377 | 125.2 | 0.94 | 812.718 | 287.4 | 503.5 | 0.667 | --- | 1.44 | 0.537 | 157.1 | 17.2 | 1.5 | 0.532 |
| 4-4100 | 4-4600 | 0.775 | 132.1 | 14.7 | -2.09 | 1.365 | 124.4 | 0.924 | 8.931 | 287.8 | 505.4 | 0.675 | --- | 1.39 | 0.505 | 155.5 | 17.1 | 1.5 | 0.500 |
| 4-4100 | 4-4620 | 0.756 | 131.8 | 14.8 | -2.04 | 1.354 | 123.8 | 0.904 | 7.106 | 288.2 | 507.4 | 0.683 | --- | 1.35 | 0.476 | 153.9 | 17.0 | 1.5 | 0.471 |
| 4-4100 | 4-4640 | 0.740 | 131.6 | 14.9 | -1.98 | 1.345 | 123.2 | 0.886 | 6.038 | 288.6 | 509.3 | 0.689 | --- | 1.31 | 0.449 | 152.2 | 16.8 | 1.5 | 0.445 |
| 4-4100 | 4-4660 | 0.726 | 131.4 | 14.9 | -1.93 | 1.337 | 122.7 | 0.870 | 5.341 | 288.9 | 511.1 | 0.695 | --- | 1.27 | 0.424 | 150.4 | 16.6 | 1.5 | 0.420 |
| 4-4100 | 4-4680 | 0.713 | 131.2 | 15.0 | -1.88 | 1.330 | 122.2 | 0.856 | 4.853 | 289.2 | 512.9 | 0.700 | --- | 1.23 | 0.401 | 148.6 | 16.2 | 1.5 | 0.398 |
| 4-4100 | 4-4700 | 0.702 | 131.1 | 15.1 | -1.84 | 1.324 | 121.8 | 0.843 | 4.495 | 289.4 | 514.6 | 0.704 | --- | 1.20 | 0.380 | 146.6 | 15.8 | 1.5 | 0.378 |
| 4-4100 | 4-4720 | 0.693 | 131.0 | 15.1 | -1.79 | 1.318 | 121.5 | 0.833 | 4.223 | 289.6 | 516.3 | 0.707 | --- | 1.17 | 0.360 | 144.6 | 15.3 | 1.5 | 0.359 |
| 4-4100 | 4-4740 | 0.685 | 130.9 | 15.2 | -1.75 | 1.313 | 121.2 | 0.823 | 4.010 | 289.7 | 517.9 | 0.710 | --- | 1.14 | 0.343 | 142.5 | 14.7 | 1.5 | 0.342 |
| 4-4100 | 4-4760 | 0.678 | 130.9 | 15.2 | -1.71 | 1.309 | 121.0 | 0.815 | 3.841 | 289.8 | 519.5 | 0.712 | --- | 1.11 | 0.326 | 140.3 | 14.0 | 1.5 | 0.326 |
| 4-4100 | 4-4780 | 0.673 | 130.9 | 15.3 | -1.67 | 1.306 | 120.8 | 0.807 | 3.704 | 289.8 | 521.0 | 0.714 | --- | 1.09 | 0.311 | 138.0 | 13.2 | 1.4 | 0.311 |
| 4-4100 | 4-4800 | 0.668 | 130.9 | 15.3 | -1.64 | 1.302 | 120.7 | 0.801 | 3.592 | 289.8 | 522.5 | 0.715 | --- | 1.07 | 0.297 | 135.6 | 12.3 | 1.4 | 0.298 |
| 4-4100 | 4-4820 | 0.664 | 131.0 | 15.3 | -1.60 | 1.299 | 120.6 | 0.796 | 3.499 | 289.7 | 523.9 | 0.715 | --- | 1.05 | 0.284 | 133.1 | 11.3 | 1.4 | 0.286 |
| 4-4100 | 4-4840 | 0.662 | 131.1 | 15.4 | -1.57 | 1.297 | 120.5 | 0.791 | 3.422 | 289.6 | 525.3 | 0.715 | --- | 1.03 | 0.273 | 130.5 | 10.3 | 1.3 | 0.276 |
| 4-4100 | 4-4860 | 0.660 | 131.2 | 15.4 | -1.54 | 1.295 | 120.5 | 0.787 | 3.357 | 289.4 | 526.7 | 0.715 | --- | 1.01 | 0.262 | 127.8 | 9.1 | 1.3 | 0.266 |
| 4-4100 | 4-4880 | 0.659 | 131.3 | 15.4 | -1.51 | 1.293 | 120.5 | 0.784 | 3.302 | 289.2 | 527.9 | 0.714 | --- | 0.99 | 0.253 | 125.1 | 8.0 | 1.2 | 0.257 |
| 4-4100 | 4-4900 | 0.658 | 131.5 | 15.4 | -1.48 | 1.291 | 120.5 | 0.781 | 3.256 | 288.9 | 529.2 | 0.713 | --- | 0.98 | 0.244 | 122.2 | 6.7 | 1.2 | 0.250 |
| 4-4100 | 4-4920 | 0.659 | 131.7 | 15.4 | -1.45 | 1.290 | 120.6 | 0.779 | 3.217 | 288.6 | 530.4 | 0.711 | --- | 0.96 | 0.237 | 119.3 | 5.4 | 1.1 | 0.243 |
| 4-4100 | 4-4940 | 0.659 | 132.0 | 15.4 | -1.42 | 1.289 | 120.7 | 0.777 | 3.183 | 288.2 | 531.5 | 0.708 | --- | 0.95 | 0.230 | 116.4 | 4.1 | 1.0 | 0.237 |
| 4-4100 | 4-4960 | 0.661 | 132.2 | 15.4 | -1.39 | 1.287 | 120.9 | 0.776 | 3.155 | 287.8 | 532.6 | 0.706 | --- | 0.94 | 0.224 | 113.4 | 2.8 | 1.0 | 0.232 |
| 4-4100 | 4-4980 | 0.663 | 132.5 | 15.4 | -1.36 | 1.287 | 121.0 | 0.776 | 3.132 | 287.4 | 533.7 | 0.703 | --- | 0.93 | 0.219 | 110.4 | 1.4 | 0.9 | 0.228 |
| 4-4100 | 4-5000 | 0.666 | 132.8 | 15.4 | -1.34 | 1.286 | 121.2 | 0.775 | 3.112 | 286.9 | 534.7 | 0.699 | --- | 0.92 | 0.214 | 107.4 | 0.1 | 0.8 | 0.225 |
| 4-4100 | 4-5020 | 0.669 | 133.1 | 15.3 | -1.31 | 1.285 | 121.4 | 0.775 | 3.096 | 286.4 | 535.7 | 0.695 | --- | 0.91 | 0.211 | 104.3 | 358.8 | 0.8 | 0.222 |
| 4-4100 | 4-5040 | 0.673 | 133.5 | 15.3 | -1.29 | 1.285 | 121.7 | 0.776 | 3.082 | 285.8 | 536.7 | 0.691 | --- | 0.90 | 0.208 | 101.3 | 357.5 | 0.7 | 0.220 |
| 4-4100 | 4-5060 | 0.677 | 133.8 | 15.3 | -1.26 | 1.284 | 121.9 | 0.777 | 3.071 | 285.2 | 537.6 | 0.686 | --- | 0.89 | 0.205 | 98.3 | 356.3 | 0.6 | 0.219 |
| 4-4100 | 4-5080 | 0.681 | 134.2 | 15.2 | -1.24 | 1.284 | 122.2 | 0.778 | 3.062 | 284.5 | 538.5 | 0.681 | --- | 0.88 | 0.203 | 95.3 | 355.1 | 0.6 | 0.218 |
| 4-4100 | 4-5100 | 0.686 | 134.6 | 15.2 | -1.21 | 1.283 | 122.5 | 0.779 | 3.056 | 283.9 | 539.3 | 0.676 | --- | 0.88 | 0.202 | 92.4 | 354.1 | 0.5 | 0.218 |
| 4-4100 | 4-5120 | 0.692 | 135.1 | 15.1 | -1.19 | 1.283 | 122.8 | 0.780 | 3.051 | 283.2 | 540.1 | 0.670 | 5.431 | 0.87 | 0.201 | 89.5 | 353.1 | 0.4 | 0.219 |
| 4-4100 | 4-5140 | 0.697 | 135.5 | 15.0 | -1.16 | 1.283 | 123.2 | 0.782 | 3.047 | 282.4 | 540.9 | 0.664 | 5.430 | 0.87 | 0.201 | 86.7 | 352.1 | 0.4 | 0.219 |
| 4-4100 | 4-5160 | 0.704 | 135.9 | 15.0 | -1.14 | 1.283 | 123.5 | 0.784 | 3.045 | 281.6 | 541.7 | 0.658 | 5.433 | 0.86 | 0.201 | 84.0 | 351.3 | 0.3 | 0.221 |
| 4-4100 | 4-5180 | 0.710 | 136.4 | 14.9 | -1.12 | 1.283 | 123.9 | 0.786 | 3.045 | 280.8 | 542.4 | 0.651 | 5.438 | 0.86 | 0.201 | 81.3 | 350.6 | 0.3 | 0.222 |
| 4-4100 | 4-5200 | 0.717 | 136.9 | 14.8 | -1.09 | 1.283 | 124.3 | 0.789 | 3.045 | 280.0 | 543.1 | 0.644 | 5.447 | 0.86 | 0.202 | 78.8 | 350.0 | 0.2 | 0.224 |
| 4-4100 | 4-5220 | 0.725 | 137.4 | 14.7 | -1.07 | 1.283 | 124.8 | 0.791 | 3.047 | 279.1 | 543.7 | 0.637 | 5.457 | 0.85 | 0.203 | 76.3 | 349.5 | 0.2 | 0.227 |
| 4-4100 | 4-5240 | 0.732 | 137.9 | 14.6 | -1.05 | 1.283 | 125.2 | 0.794 | 3.049 | 278.2 | 544.4 | 0.629 | 5.470 | 0.85 | 0.204 | 73.9 | 349.1 | 0.1 | 0.229 |
| 4-4100 | 4-5260 | 0.740 | 138.4 | 14.5 | -1.03 | 1.283 | 125.7 | 0.797 | 3.053 | 277.3 | 545.0 | 0.621 | 5.485 | 0.85 | 0.206 | 71.6 | 348.7 | 0.1 | 0.232 |
| 4-4100 | 4-5280 | 0.749 | 139.0 | 14.4 | -1.00 | 1.283 | 126.2 | 0.800 | 3.057 | 276.3 | 545.5 | 0.612 | 5.502 | 0.85 | 0.208 | 69.3 | 348.5 | 0.1 | 0.235 |
| 4-4100 | 4-5300 | 0.757 | 139.5 | 14.3 | -0.98 | 1.284 | 126.7 | 0.803 | 3.062 | 275.3 | 546.1 | 0.604 | 5.521 | 0.85 | 0.210 | 67.2 | 348.4 | 0.1 | 0.239 |
| 4-4100 | 4-5320 | 0.766 | 140.0 | 14.2 | -0.96 | 1.284 | 127.2 | 0.806 | 3.068 | 274.3 | 546.6 | 0.595 | 5.541 | 0.85 | 0.212 | 65.1 | 348.4 | 0.1 | 0.242 |
| 4-4100 | 4-5340 | 0.776 | 140.6 | 14.1 | -0.93 | 1.284 | 127.7 | 0.810 | 3.074 | 273.2 | 547.1 | 0.585 | 5.563 | 0.85 | 0.214 | 63.1 | 348.4 | 0.0 | 0.246 |
| 4-4100 | 4-5360 | 0.785 | 141.2 | 14.0 | -0.91 | 1.284 | 128.3 | 0.813 | 3.081 | 272.2 | 547.5 | 0.576 | 5.586 | 0.85 | 0.217 | 61.2 | 348.5 | 0.0 | 0.250 |
| 4-4100 | 4-5380 | 0.795 | 141.8 | 13.9 | -0.89 | 1.285 | 128.8 | 0.817 | 3.088 | 271.0 | 548.0 | 0.566 | 5.611 | 0.86 | 0.219 | 59.3 | 348.8 | 0.0 | 0.254 |
| 4-4100 | 4-5400 | 0.806 | 142.3 | 13.7 | -0.86 | 1.285 | 129.4 | 0.821 | 3.096 | 269.9 | 548.4 | 0.556 | 5.637 | 0.86 | 0.222 | 57.5 | 349.1 | 0.0 | 0.259 |
| 4-4100 | 4-5420 | 0.816 | 142.9 | 13.6 | -0.84 | 1.285 | 130.0 | 0.824 | 3.104 | 268.7 | 548.8 | 0.545 | 5.664 | 0.86 | 0.225 | 55.8 | 349.4 | 0.0 | 0.263 |
| 4-4100 | 4-5440 | 0.827 | 143.5 | 13.4 | -0.82 | 1.286 | 130.6 | 0.828 | 3.113 | 267.5 | 549.2 | 0.534 | 5.692 | 0.87 | 0.228 | 54.1 | 349.9 | 0.1 | 0.268 |
| 4-4100 | 4-5460 | 0.838 | 144.2 | 13.3 | -0.79 | 1.286 | 131.3 | 0.832 | 3.122 | 266.3 | 549.5 | 0.523 | 5.721 | 0.87 | 0.230 | 52.5 | 350.4 | 0.1 | 0.272 |
| 4-4100 | 4-5480 | 0.850 | 144.8 | 13.1 | -0.77 | 1.287 | 131.9 | 0.837 | 3.132 | 265.1 | 549.8 | 0.512 | 5.752 | 0.88 | 0.233 | 50.9 | 351.0 | 0.1 | 0.277 |
| 4-4100 | 4-5500 | 0.862 | 145.4 | 13.0 | -0.74 | 1.287 | 132.6 | 0.841 | 3.142 | 263.8 | 550.1 | 0.500 | 5.783 | 0.89 | 0.236 | 49.4 | 351.6 | 0.1 | 0.282 |
| 4-4100 | 4-5520 | 0.874 | 146.0 | 12.8 | -0.72 | 1.287 | 133.3 | 0.845 | 3.152 | 262.5 | 550.4 | 0.488 | 5.815 | 0.89 | 0.239 | 48.0 | 352.3 | 0.1 | 0.287 |
| 4-4100 | 4-5540 | 0.886 | 146.7 | 12.6 | -0.69 | 1.288 | 134.0 | 0.849 | 3.162 | 261.1 | 550.6 | 0.476 | 5.848 | 0.90 | 0.242 | 46.5 | 353.1 | 0.2 | 0.292 |
| 4-4100 | 4-5560 | 0.899 | 147.3 | 12.5 | -0.66 | 1.288 | 134.7 | 0.854 | 3.173 | 259.8 | 550.8 | 0.464 | 5.882 | 0.91 | 0.246 | 45.1 | 353.9 | 0.2 | 0.297 |
| 4-4100 | 4-5580 | 0.912 | 148.0 | 12.3 | -0.64 | 1.289 | 135.5 | 0.858 | 3.184 | 258.4 | 551.0 | 0.451 | 5.917 | 0.92 | 0.249 | 43.8 | 354.7 | 0.2 | 0.303 |
| 4-4100 | 4-5600 | 0.925 | 148.6 | 12.1 | -0.61 | 1.289 | 136.2 | 0.863 | 3.195 | 257.0 | 551.2 | 0.438 | 5.952 | 0.93 | 0.252 | 42.5 | 355.7 | 0.3 | 0.308 |
| 4-4100 | 4-5620 | 0.939 | 149.3 | 11.9 | -0.58 | 1.289 | 137.0 | 0.867 | 3.207 | 255.5 | 551.4 | 0.425 | 5.988 | 0.94 | 0.255 | 41.2 | 356.6 | 0.3 | 0.313 |
| 4-4100 | 4-5640 | 0.953 | 150.0 | 11.7 | -0.55 | 1.290 | 137.8 | 0.872 | 3.218 | 254.1 | 551.5 | 0.412 | 6.025 | 0.96 | 0.258 | 39.9 | 357.6 | 0.4 | 0.319 |
| 4-4100 | 4-5660 | 0.967 | 150.6 | 11.5 | -0.52 | 1.290 | 138.6 | 0.877 | 3.230 | 252.6 | 551.6 | 0.398 | 6.063 | 0.97 | 0.261 | 38.7 | 358.7 | 0.4 | 0.325 |
| 4-4100 | 4-5680 | 0.981 | 151.3 | 11.3 | -0.49 | 1.291 | 139.4 | 0.881 | 3.243 | 251.0 | 551.7 | 0.384 | 6.101 | 0.99 | 0.264 | 37.5 | 359.8 | 0.5 | 0.330 |
| 4-4100 | 4-5700 | 0.996 | 152.0 | 11.1 | -0.45 | 1.291 | 140.3 | 0.886 | 3.255 | 249.5 | 551.7 | 0.370 | 6.139 | 1.00 | 0.267 | 36.3 | 0.9 | 0.5 | 0.336 |
| 4-4110 | 4-4530 | 0.825 | 138.3 | 11.2 | -3.23 | 1.430 | 124.7 | 1.04 | 515.190 | 292.4 | 495.1 | 0.691 | --- | 2.60 | 0.659 | 160.6 | 18.4 | 1.9 | 0.646 |
| 4-4110 | 4-4550 | 0.794 | 137.9 | 11.4 | -3.07 | 1.411 | 123.6 | 1.00 | 980.355 | 293.0 | 497.3 | 0.702 | --- | 2.45 | 0.617 | 159.3 | 18.6 | 1.9 | 0.604 |
| 4-4110 | 4-4570 | 0.766 | 137.6 | 11.6 | -2.92 | 1.395 | 122.7 | 0.97 | 630.268 | 293.7 | 499.4 | 0.712 | --- | 2.31 | 0.578 | 157.9 | 18.8 | 1.9 | 0.566 |
| 4-4110 | 4-4590 | 0.742 | 137.2 | 11.8 | -2.78 | 1.381 | 121.9 | 0.94 | 813.883 | 294.3 | 501.5 | 0.721 | --- | 2.19 | 0.543 | 156.4 | 18.9 | 1.9 | 0.532 |
| 4-4110 | 4-4610 | 0.720 | 136.9 | 12.0 | -2.66 | 1.368 | 121.1 | 0.923 | 9.472 | 294.8 | 503.6 | 0.729 | --- | 2.09 | 0.512 | 154.8 | 18.9 | 1.9 | 0.500 |
| 4-4110 | 4-4630 | 0.702 | 136.6 | 12.1 | -2.55 | 1.358 | 120.5 | 0.901 | 7.433 | 295.3 | 505.6 | 0.737 | --- | 1.99 | 0.482 | 153.2 | 18.8 | 1.9 | 0.471 |
| 4-4110 | 4-4650 | 0.685 | 136.3 | 12.3 | -2.45 | 1.349 | 119.9 | 0.881 | 6.265 | 295.7 | 507.5 | 0.743 | --- | 1.91 | 0.455 | 151.5 | 18.7 | 1.9 | 0.444 |
| 4-4110 | 4-4670 | 0.670 | 136.1 | 12.4 | -2.36 | 1.340 | 119.3 | 0.864 | 5.512 | 296.1 | 509.4 | 0.749 | --- | 1.83 | 0.431 | 149.8 | 18.5 | 1.9 | 0.420 |
| 4-4110 | 4-4690 | 0.658 | 135.9 | 12.6 | -2.28 | 1.333 | 118.9 | 0.849 | 4.990 | 296.5 | 511.3 | 0.754 | --- | 1.76 | 0.408 | 147.9 | 18.2 | 1.9 | 0.398 |
| 4-4110 | 4-4710 | 0.647 | 135.7 | 12.7 | -2.20 | 1.327 | 118.5 | 0.836 | 4.609 | 296.7 | 513.1 | 0.758 | --- | 1.69 | 0.387 | 146.0 | 17.8 | 1.9 | 0.377 |
| 4-4110 | 4-4730 | 0.637 | 135.6 | 12.8 | -2.13 | 1.322 | 118.1 | 0.824 | 4.320 | 297.0 | 514.8 | 0.761 | --- | 1.64 | 0.368 | 144.0 | 17.3 | 1.9 | 0.358 |
| 4-4110 | 4-4750 | 0.629 | 135.5 | 12.9 | -2.06 | 1.317 | 117.8 | 0.813 | 4.096 | 297.1 | 516.5 | 0.764 | --- | 1.58 | 0.350 | 141.9 | 16.8 | 1.9 | 0.340 |
| 4-4110 | 4-4770 | 0.622 | 135.4 | 13.0 | -2.00 | 1.313 | 117.6 | 0.804 | 3.918 | 297.3 | 518.1 | 0.767 | --- | 1.53 | 0.334 | 139.8 | 16.2 | 1.9 | 0.325 |
| 4-4110 | 4-4790 | 0.616 | 135.4 | 13.1 | -1.94 | 1.309 | 117.4 | 0.796 | 3.773 | 297.3 | 519.7 | 0.769 | --- | 1.49 | 0.319 | 137.5 | 15.4 | 1.9 | 0.310 |
| 4-4110 | 4-4810 | 0.611 | 135.4 | 13.2 | -1.88 | 1.306 | 117.2 | 0.789 | 3.655 | 297.4 | 521.2 | 0.770 | --- | 1.45 | 0.305 | 135.1 | 14.6 | 1.8 | 0.296 |
| 4-4110 | 4-4830 | 0.607 | 135.4 | 13.3 | -1.83 | 1.303 | 117.1 | 0.783 | 3.558 | 297.3 | 522.7 | 0.771 | --- | 1.41 | 0.293 | 132.7 | 13.7 | 1.8 | 0.284 |
| 4-4110 | 4-4850 | 0.603 | 135.5 | 13.4 | -1.77 | 1.300 | 117.0 | 0.778 | 3.476 | 297.3 | 524.2 | 0.771 | --- | 1.37 | 0.281 | 130.2 | 12.7 | 1.8 | 0.273 |
| 4-4110 | 4-4870 | 0.601 | 135.6 | 13.4 | -1.73 | 1.298 | 117.0 | 0.774 | 3.408 | 297.1 | 525.5 | 0.771 | --- | 1.34 | 0.271 | 127.6 | 11.7 | 1.7 | 0.263 |
| 4-4110 | 4-4890 | 0.600 | 135.8 | 13.5 | -1.68 | 1.296 | 117.0 | 0.770 | 3.350 | 297.0 | 526.9 | 0.771 | --- | 1.31 | 0.261 | 125.0 | 10.5 | 1.7 | 0.254 |
| 4-4110 | 4-4910 | 0.599 | 135.9 | 13.5 | -1.64 | 1.294 | 117.0 | 0.767 | 3.302 | 296.7 | 528.2 | 0.770 | --- | 1.28 | 0.253 | 122.3 | 9.3 | 1.6 | 0.246 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4110 | 4-4930 | 0.599 | 136.1 | 13.5 | -1.59 | 1.293 | 117.0 | 0.764 | 3.260 | 296.5 | 529.4 | 0.768 | --- | 1.26 | 0.245 | 119.5 | 8.1 | 1.6 | 0.239 |
| 4-4110 | 4-4950 | 0.599 | 136.4 | 13.6 | -1.55 | 1.292 | 117.1 | 0.762 | 3.225 | 296.2 | 530.6 | 0.766 | --- | 1.23 | 0.239 | 116.7 | 6.8 | 1.5 | 0.233 |
| 4-4110 | 4-4970 | 0.600 | 136.6 | 13.6 | -1.51 | 1.290 | 117.2 | 0.761 | 3.196 | 295.8 | 531.8 | 0.764 | --- | 1.21 | 0.233 | 113.8 | 5.5 | 1.4 | 0.228 |
| 4-4110 | 4-4990 | 0.602 | 136.9 | 13.6 | -1.47 | 1.290 | 117.4 | 0.760 | 3.171 | 295.4 | 532.9 | 0.762 | --- | 1.19 | 0.228 | 110.9 | 4.1 | 1.4 | 0.223 |
| 4-4110 | 4-5010 | 0.604 | 137.2 | 13.6 | -1.44 | 1.289 | 117.5 | 0.759 | 3.149 | 295.0 | 534.0 | 0.759 | --- | 1.17 | 0.223 | 108.1 | 2.8 | 1.3 | 0.220 |
| 4-4110 | 4-5030 | 0.606 | 137.5 | 13.6 | -1.40 | 1.288 | 117.7 | 0.759 | 3.132 | 294.5 | 535.0 | 0.756 | --- | 1.15 | 0.219 | 105.2 | 1.5 | 1.2 | 0.216 |
| 4-4110 | 4-5050 | 0.609 | 137.9 | 13.5 | -1.37 | 1.287 | 117.9 | 0.759 | 3.117 | 294.0 | 536.0 | 0.752 | --- | 1.14 | 0.216 | 102.3 | 0.2 | 1.1 | 0.214 |
| 4-4110 | 4-5070 | 0.613 | 138.3 | 13.5 | -1.33 | 1.287 | 118.2 | 0.759 | 3.105 | 293.4 | 537.0 | 0.748 | --- | 1.12 | 0.214 | 99.5 | 358.9 | 1.1 | 0.212 |
| 4-4110 | 4-5090 | 0.617 | 138.7 | 13.5 | -1.30 | 1.287 | 118.4 | 0.760 | 3.095 | 292.8 | 537.9 | 0.744 | --- | 1.11 | 0.212 | 96.6 | 357.7 | 1.0 | 0.211 |
| 4-4110 | 4-5110 | 0.621 | 139.1 | 13.4 | -1.27 | 1.286 | 118.7 | 0.761 | 3.088 | 292.2 | 538.8 | 0.739 | --- | 1.09 | 0.210 | 93.9 | 356.6 | 0.9 | 0.211 |
| 4-4110 | 4-5130 | 0.626 | 139.5 | 13.4 | -1.24 | 1.286 | 119.0 | 0.762 | 3.082 | 291.5 | 539.6 | 0.734 | --- | 1.08 | 0.210 | 91.2 | 355.5 | 0.8 | 0.211 |
| 4-4110 | 4-5150 | 0.631 | 140.0 | 13.3 | -1.21 | 1.286 | 119.3 | 0.763 | 3.078 | 290.8 | 540.5 | 0.729 | 5.427 | 1.07 | 0.209 | 88.5 | 354.6 | 0.8 | 0.211 |
| 4-4110 | 4-5170 | 0.637 | 140.4 | 13.3 | -1.18 | 1.286 | 119.6 | 0.765 | 3.075 | 290.1 | 541.3 | 0.723 | 5.427 | 1.06 | 0.209 | 85.9 | 353.7 | 0.7 | 0.212 |
| 4-4110 | 4-5190 | 0.643 | 140.9 | 13.2 | -1.15 | 1.286 | 120.0 | 0.767 | 3.074 | 289.3 | 542.0 | 0.718 | 5.431 | 1.05 | 0.209 | 83.4 | 352.9 | 0.6 | 0.213 |
| 4-4110 | 4-5210 | 0.649 | 141.4 | 13.1 | -1.12 | 1.286 | 120.4 | 0.769 | 3.074 | 288.5 | 542.8 | 0.711 | 5.437 | 1.04 | 0.210 | 81.0 | 352.2 | 0.6 | 0.215 |
| 4-4110 | 4-5230 | 0.655 | 141.9 | 13.0 | -1.09 | 1.286 | 120.7 | 0.771 | 3.075 | 287.7 | 543.5 | 0.705 | 5.445 | 1.04 | 0.211 | 78.6 | 351.6 | 0.5 | 0.217 |
| 4-4110 | 4-5250 | 0.662 | 142.5 | 12.9 | -1.06 | 1.286 | 121.2 | 0.773 | 3.077 | 286.9 | 544.1 | 0.698 | 5.456 | 1.03 | 0.212 | 76.3 | 351.1 | 0.5 | 0.219 |
| 4-4110 | 4-5270 | 0.670 | 143.0 | 12.8 | -1.03 | 1.286 | 121.6 | 0.776 | 3.080 | 286.0 | 544.8 | 0.691 | 5.469 | 1.02 | 0.213 | 74.1 | 350.7 | 0.5 | 0.222 |
| 4-4110 | 4-5290 | 0.677 | 143.6 | 12.7 | -1.01 | 1.286 | 122.0 | 0.778 | 3.084 | 285.1 | 545.4 | 0.683 | 5.484 | 1.02 | 0.215 | 71.9 | 350.4 | 0.4 | 0.224 |
| 4-4110 | 4-5310 | 0.685 | 144.1 | 12.6 | -0.98 | 1.286 | 122.5 | 0.781 | 3.088 | 284.1 | 546.0 | 0.676 | 5.501 | 1.01 | 0.217 | 69.9 | 350.2 | 0.4 | 0.227 |
| 4-4110 | 4-5330 | 0.694 | 144.7 | 12.5 | -0.95 | 1.286 | 123.0 | 0.784 | 3.093 | 283.1 | 546.6 | 0.668 | 5.519 | 1.01 | 0.219 | 67.9 | 350.0 | 0.4 | 0.231 |
| 4-4110 | 4-5350 | 0.702 | 145.3 | 12.4 | -0.92 | 1.287 | 123.4 | 0.787 | 3.099 | 282.1 | 547.1 | 0.659 | 5.539 | 1.01 | 0.221 | 66.0 | 350.0 | 0.3 | 0.234 |
| 4-4110 | 4-5370 | 0.711 | 145.8 | 12.3 | -0.90 | 1.287 | 124.0 | 0.791 | 3.106 | 281.1 | 547.6 | 0.651 | 5.561 | 1.01 | 0.223 | 64.1 | 350.1 | 0.3 | 0.238 |
| 4-4110 | 4-5390 | 0.720 | 146.4 | 12.1 | -0.87 | 1.287 | 124.5 | 0.794 | 3.113 | 280.0 | 548.1 | 0.642 | 5.584 | 1.00 | 0.225 | 62.3 | 350.2 | 0.3 | 0.242 |
| 4-4110 | 4-5410 | 0.730 | 147.0 | 12.0 | -0.84 | 1.288 | 125.0 | 0.797 | 3.120 | 278.9 | 548.6 | 0.632 | 5.608 | 1.00 | 0.228 | 60.6 | 350.4 | 0.3 | 0.246 |
| 4-4110 | 4-5430 | 0.739 | 147.7 | 11.8 | -0.81 | 1.288 | 125.6 | 0.801 | 3.128 | 277.8 | 549.0 | 0.623 | 5.633 | 1.00 | 0.230 | 58.9 | 350.7 | 0.3 | 0.250 |
| 4-4110 | 4-5450 | 0.749 | 148.3 | 11.7 | -0.79 | 1.288 | 126.2 | 0.805 | 3.136 | 276.7 | 549.5 | 0.613 | 5.660 | 1.00 | 0.233 | 57.3 | 351.1 | 0.3 | 0.254 |
| 4-4110 | 4-5470 | 0.760 | 148.9 | 11.5 | -0.76 | 1.289 | 126.7 | 0.808 | 3.145 | 275.5 | 549.9 | 0.602 | 5.687 | 1.01 | 0.236 | 55.8 | 351.5 | 0.3 | 0.258 |
| 4-4110 | 4-5490 | 0.771 | 149.5 | 11.4 | -0.73 | 1.289 | 127.4 | 0.812 | 3.154 | 274.3 | 550.2 | 0.592 | 5.716 | 1.01 | 0.239 | 54.3 | 352.0 | 0.3 | 0.263 |
| 4-4110 | 4-5510 | 0.782 | 150.2 | 11.2 | -0.70 | 1.289 | 128.0 | 0.816 | 3.163 | 273.1 | 550.6 | 0.581 | 5.746 | 1.01 | 0.241 | 52.8 | 352.6 | 0.3 | 0.267 |
| 4-4110 | 4-5530 | 0.793 | 150.8 | 11.0 | -0.67 | 1.290 | 128.6 | 0.820 | 3.173 | 271.8 | 550.9 | 0.570 | 5.776 | 1.02 | 0.244 | 51.4 | 353.2 | 0.4 | 0.272 |
| 4-4110 | 4-5550 | 0.804 | 151.5 | 10.9 | -0.65 | 1.290 | 129.3 | 0.824 | 3.183 | 270.6 | 551.2 | 0.559 | 5.808 | 1.02 | 0.247 | 50.0 | 353.9 | 0.4 | 0.277 |
| 4-4110 | 4-5570 | 0.816 | 152.1 | 10.7 | -0.62 | 1.290 | 129.9 | 0.829 | 3.194 | 269.3 | 551.5 | 0.547 | 5.840 | 1.03 | 0.250 | 48.7 | 354.7 | 0.4 | 0.281 |
| 4-4110 | 4-5590 | 0.828 | 152.8 | 10.5 | -0.59 | 1.291 | 130.6 | 0.833 | 3.204 | 267.9 | 551.7 | 0.535 | 5.873 | 1.03 | 0.253 | 47.4 | 355.5 | 0.4 | 0.286 |
| 4-4110 | 4-5610 | 0.841 | 153.4 | 10.3 | -0.56 | 1.291 | 131.3 | 0.837 | 3.215 | 266.6 | 552.0 | 0.523 | 5.907 | 1.04 | 0.256 | 46.1 | 356.3 | 0.5 | 0.291 |
| 4-4110 | 4-5630 | 0.853 | 154.1 | 10.1 | -0.53 | 1.292 | 132.1 | 0.842 | 3.226 | 265.2 | 552.2 | 0.510 | 5.942 | 1.05 | 0.259 | 44.9 | 357.2 | 0.5 | 0.297 |
| 4-4110 | 4-5650 | 0.866 | 154.8 | 9.9 | -0.50 | 1.292 | 132.8 | 0.846 | 3.237 | 263.8 | 552.4 | 0.497 | 5.977 | 1.06 | 0.262 | 43.7 | 358.2 | 0.5 | 0.302 |
| 4-4110 | 4-5670 | 0.880 | 155.5 | 9.7 | -0.47 | 1.292 | 133.6 | 0.851 | 3.249 | 262.4 | 552.6 | 0.484 | 6.014 | 1.07 | 0.265 | 42.5 | 359.1 | 0.6 | 0.307 |
| 4-4110 | 4-5690 | 0.893 | 156.1 | 9.5 | -0.43 | 1.293 | 134.3 | 0.856 | 3.261 | 260.9 | 552.7 | 0.471 | 6.050 | 1.08 | 0.268 | 41.3 | 0.2 | 0.6 | 0.312 |
| 4-4110 | 4-5710 | 0.907 | 156.8 | 9.3 | -0.40 | 1.293 | 135.1 | 0.860 | 3.273 | 259.4 | 552.8 | 0.458 | 6.088 | 1.09 | 0.271 | 40.2 | 1.2 | 0.7 | 0.318 |
| 4-4120 | 4-4540 | 0.772 | 142.2 | 6.1 | -5.25 | 1.433 | 121.2 | 1.05314 | 112 | 299.3 | 493.1 | 0.744 | --- | 4.73 | 0.662 | 159.9 | 19.9 | 2.7 | 0.645 |
| 4-4120 | 4-4560 | 0.741 | 141.8 | 6.7 | -4.78 | 1.414 | 120.2 | 1.01357 | 428 | 300.0 | 495.3 | 0.755 | --- | 4.27 | 0.621 | 158.6 | 20.1 | 2.7 | 0.603 |
| 4-4120 | 4-4580 | 0.713 | 141.4 | 7.2 | -4.39 | 1.398 | 119.3 | 0.97835 | 547 | 300.7 | 497.6 | 0.765 | --- | 3.90 | 0.583 | 157.2 | 20.3 | 2.6 | 0.565 |
| 4-4120 | 4-4600 | 0.688 | 141.0 | 7.7 | -4.06 | 1.384 | 118.5 | 0.94814 | 884 | 301.4 | 499.7 | 0.773 | --- | 3.59 | 0.548 | 155.7 | 20.4 | 2.6 | 0.530 |
| 4-4120 | 4-4620 | 0.666 | 140.7 | 8.1 | -3.78 | 1.372 | 117.7 | 0.921 | 9.920 | 302.0 | 501.9 | 0.781 | --- | 3.32 | 0.516 | 154.2 | 20.5 | 2.6 | 0.499 |
| 4-4120 | 4-4640 | 0.647 | 140.4 | 8.5 | -3.54 | 1.361 | 117.0 | 0.898 | 7.702 | 302.5 | 503.9 | 0.788 | --- | 3.10 | 0.487 | 152.6 | 20.4 | 2.6 | 0.470 |
| 4-4120 | 4-4660 | 0.631 | 140.1 | 8.8 | -3.33 | 1.352 | 116.4 | 0.877 | 6.452 | 303.0 | 505.9 | 0.794 | --- | 2.90 | 0.460 | 150.9 | 20.3 | 2.5 | 0.443 |
| 4-4120 | 4-4680 | 0.616 | 139.8 | 9.1 | -3.14 | 1.344 | 115.9 | 0.859 | 5.654 | 303.5 | 507.9 | 0.800 | --- | 2.73 | 0.436 | 149.1 | 20.2 | 2.5 | 0.419 |
| 4-4120 | 4-4700 | 0.603 | 139.6 | 9.4 | -2.98 | 1.337 | 115.4 | 0.842 | 5.104 | 303.9 | 509.8 | 0.805 | --- | 2.58 | 0.413 | 147.3 | 19.9 | 2.5 | 0.396 |
| 4-4120 | 4-4720 | 0.592 | 139.4 | 9.7 | -2.83 | 1.330 | 115.0 | 0.828 | 4.704 | 304.2 | 511.7 | 0.809 | --- | 2.45 | 0.393 | 145.4 | 19.6 | 2.5 | 0.376 |
| 4-4120 | 4-4740 | 0.582 | 139.2 | 9.9 | -2.70 | 1.325 | 114.7 | 0.815 | 4.402 | 304.5 | 513.5 | 0.812 | --- | 2.33 | 0.374 | 143.4 | 19.2 | 2.5 | 0.357 |
| 4-4120 | 4-4760 | 0.573 | 139.1 | 10.2 | -2.58 | 1.320 | 114.4 | 0.804 | 4.168 | 304.8 | 515.2 | 0.815 | --- | 2.23 | 0.356 | 141.3 | 18.7 | 2.4 | 0.339 |
| 4-4120 | 4-4780 | 0.566 | 139.0 | 10.4 | -2.47 | 1.316 | 114.1 | 0.795 | 3.983 | 304.9 | 516.9 | 0.818 | --- | 2.13 | 0.340 | 139.2 | 18.1 | 2.4 | 0.323 |
| 4-4120 | 4-4800 | 0.560 | 139.0 | 10.6 | -2.36 | 1.312 | 113.9 | 0.786 | 3.833 | 305.1 | 518.5 | 0.820 | --- | 2.05 | 0.325 | 137.0 | 17.4 | 2.4 | 0.308 |
| 4-4120 | 4-4820 | 0.555 | 139.0 | 10.7 | -2.27 | 1.309 | 113.7 | 0.779 | 3.710 | 305.1 | 520.1 | 0.821 | --- | 1.97 | 0.312 | 134.7 | 16.7 | 2.4 | 0.295 |
| 4-4120 | 4-4840 | 0.550 | 139.0 | 10.9 | -2.18 | 1.306 | 113.6 | 0.772 | 3.609 | 305.2 | 521.6 | 0.822 | --- | 1.90 | 0.299 | 132.3 | 15.8 | 2.3 | 0.282 |
| 4-4120 | 4-4860 | 0.547 | 139.1 | 11.0 | -2.10 | 1.303 | 113.5 | 0.766 | 3.524 | 305.1 | 523.1 | 0.823 | --- | 1.84 | 0.288 | 129.9 | 14.9 | 2.3 | 0.271 |
| 4-4120 | 4-4880 | 0.544 | 139.2 | 11.2 | -2.02 | 1.301 | 113.5 | 0.762 | 3.453 | 305.0 | 524.6 | 0.823 | --- | 1.78 | 0.278 | 127.3 | 13.9 | 2.2 | 0.261 |
| 4-4120 | 4-4900 | 0.542 | 139.3 | 11.3 | -1.95 | 1.299 | 113.4 | 0.757 | 3.393 | 304.9 | 526.9 | 0.823 | --- | 1.72 | 0.269 | 124.8 | 12.8 | 2.2 | 0.252 |
| 4-4120 | 4-4920 | 0.541 | 139.5 | 11.4 | -1.89 | 1.298 | 113.4 | 0.754 | 3.342 | 304.7 | 527.3 | 0.822 | --- | 1.67 | 0.260 | 122.1 | 11.6 | 2.1 | 0.243 |
| 4-4120 | 4-4940 | 0.541 | 139.7 | 11.5 | -1.82 | 1.296 | 113.5 | 0.751 | 3.299 | 304.5 | 528.6 | 0.821 | --- | 1.63 | 0.253 | 119.5 | 10.4 | 2.1 | 0.236 |
| 4-4120 | 4-4960 | 0.541 | 140.0 | 11.5 | -1.76 | 1.295 | 113.5 | 0.749 | 3.263 | 304.2 | 529.8 | 0.820 | --- | 1.58 | 0.246 | 116.8 | 9.1 | 2.0 | 0.230 |
| 4-4120 | 4-4980 | 0.541 | 140.2 | 11.6 | -1.71 | 1.294 | 113.6 | 0.747 | 3.232 | 303.9 | 531.0 | 0.818 | --- | 1.54 | 0.240 | 114.0 | 7.9 | 1.9 | 0.224 |
| 4-4120 | 4-5000 | 0.542 | 140.5 | 11.6 | -1.65 | 1.293 | 113.7 | 0.745 | 3.206 | 303.6 | 532.1 | 0.816 | --- | 1.51 | 0.235 | 111.3 | 6.5 | 1.9 | 0.219 |
| 4-4120 | 4-5020 | 0.544 | 140.9 | 11.7 | -1.60 | 1.292 | 113.9 | 0.744 | 3.183 | 303.2 | 533.3 | 0.814 | --- | 1.47 | 0.231 | 108.5 | 5.2 | 1.8 | 0.215 |
| 4-4120 | 4-5040 | 0.546 | 141.2 | 11.7 | -1.55 | 1.291 | 114.0 | 0.744 | 3.165 | 302.7 | 534.3 | 0.811 | --- | 1.44 | 0.227 | 105.8 | 3.9 | 1.7 | 0.212 |
| 4-4120 | 4-5060 | 0.549 | 141.6 | 11.7 | -1.50 | 1.290 | 114.2 | 0.743 | 3.149 | 302.3 | 535.4 | 0.808 | --- | 1.41 | 0.224 | 103.0 | 2.6 | 1.6 | 0.209 |
| 4-4120 | 4-5080 | 0.552 | 142.0 | 11.7 | -1.46 | 1.290 | 114.4 | 0.743 | 3.136 | 301.7 | 536.4 | 0.805 | --- | 1.39 | 0.221 | 100.3 | 1.3 | 1.5 | 0.207 |
| 4-4120 | 4-5100 | 0.555 | 142.4 | 11.7 | -1.41 | 1.290 | 114.7 | 0.744 | 3.126 | 301.2 | 537.4 | 0.801 | --- | 1.36 | 0.219 | 97.6 | 0.1 | 1.4 | 0.205 |
| 4-4120 | 4-5120 | 0.559 | 142.9 | 11.6 | -1.37 | 1.289 | 114.9 | 0.744 | 3.118 | 300.6 | 538.3 | 0.797 | --- | 1.34 | 0.218 | 95.0 | 358.9 | 1.4 | 0.204 |
| 4-4120 | 4-5140 | 0.563 | 143.3 | 11.6 | -1.33 | 1.289 | 115.2 | 0.745 | 3.111 | 300.0 | 539.2 | 0.793 | --- | 1.31 | 0.217 | 92.4 | 357.8 | 1.3 | 0.204 |
| 4-4120 | 4-5160 | 0.568 | 143.8 | 11.6 | -1.29 | 1.289 | 115.5 | 0.746 | 3.107 | 299.3 | 540.0 | 0.789 | 5.425 | 1.29 | 0.216 | 89.9 | 356.8 | 1.2 | 0.204 |
| 4-4120 | 4-5180 | 0.572 | 144.3 | 11.5 | -1.25 | 1.289 | 115.8 | 0.747 | 3.104 | 298.6 | 540.9 | 0.784 | 5.423 | 1.28 | 0.216 | 87.4 | 355.9 | 1.1 | 0.204 |
| 4-4120 | 4-5200 | 0.578 | 144.8 | 11.5 | -1.21 | 1.289 | 116.1 | 0.749 | 3.102 | 297.9 | 541.7 | 0.779 | 5.425 | 1.26 | 0.216 | 85.0 | 355.0 | 1.1 | 0.205 |
| 4-4120 | 4-5220 | 0.583 | 145.4 | 11.4 | -1.17 | 1.289 | 116.5 | 0.751 | 3.101 | 297.1 | 542.5 | 0.774 | 5.429 | 1.24 | 0.217 | 82.7 | 354.2 | 1.0 | 0.207 |
| 4-4120 | 4-5240 | 0.589 | 145.9 | 11.3 | -1.14 | 1.289 | 116.8 | 0.752 | 3.102 | 296.3 | 543.2 | 0.768 | 5.436 | 1.23 | 0.217 | 80.4 | 353.6 | 0.9 | 0.208 |
| 4-4120 | 4-5260 | 0.596 | 146.5 | 11.2 | -1.10 | 1.289 | 117.2 | 0.754 | 3.103 | 295.5 | 543.9 | 0.762 | 5.445 | 1.21 | 0.218 | 78.2 | 353.0 | 0.9 | 0.210 |
| 4-4120 | 4-5280 | 0.602 | 147.0 | 11.1 | -1.07 | 1.289 | 117.6 | 0.757 | 3.106 | 294.7 | 544.6 | 0.756 | 5.456 | 1.20 | 0.220 | 76.1 | 352.5 | 0.8 | 0.212 |
| 4-4120 | 4-5300 | 0.609 | 147.6 | 11.0 | -1.03 | 1.289 | 118.0 | 0.759 | 3.109 | 293.8 | 545.3 | 0.749 | 5.469 | 1.19 | 0.221 | 74.1 | 352.1 | 0.8 | 0.215 |
| 4-4120 | 4-5320 | 0.616 | 148.2 | 10.9 | -1.00 | 1.289 | 118.4 | 0.762 | 3.113 | 292.9 | 545.9 | 0.742 | 5.484 | 1.18 | 0.223 | 72.1 | 351.9 | 0.7 | 0.218 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4120 | 4-5340 | 0.624 | 148.8 | 10.8 | -0.97 | 1.289 | 118.9 | 0.764 | 3.118 | 292.0 | 546.5 | 0.735 | 5.501 | 1.17 | 0.225 | 70.2 | 351.7 | 0.7 | 0.221 |
| 4-4120 | 4-5360 | 0.632 | 149.4 | 10.7 | -0.93 | 1.289 | 119.3 | 0.767 | 3.124 | 291.0 | 547.1 | 0.728 | 5.519 | 1.16 | 0.227 | 68.3 | 351.6 | 0.6 | 0.224 |
| 4-4120 | 4-5380 | 0.640 | 150.1 | 10.5 | -0.90 | 1.290 | 119.8 | 0.770 | 3.130 | 290.0 | 547.7 | 0.720 | 5.539 | 1.16 | 0.229 | 66.6 | 351.6 | 0.6 | 0.227 |
| 4-4120 | 4-5400 | 0.648 | 150.7 | 10.4 | -0.87 | 1.290 | 120.3 | 0.773 | 3.136 | 289.0 | 548.2 | 0.712 | 5.560 | 1.15 | 0.231 | 64.8 | 351.6 | 0.6 | 0.230 |
| 4-4120 | 4-5420 | 0.657 | 151.3 | 10.2 | -0.84 | 1.290 | 120.8 | 0.776 | 3.143 | 287.9 | 548.7 | 0.704 | 5.583 | 1.14 | 0.233 | 63.2 | 351.8 | 0.6 | 0.234 |
| 4-4120 | 4-5440 | 0.666 | 152.0 | 10.1 | -0.81 | 1.290 | 121.3 | 0.779 | 3.151 | 286.9 | 549.2 | 0.695 | 5.606 | 1.14 | 0.236 | 61.6 | 352.0 | 0.6 | 0.238 |
| 4-4120 | 4-5460 | 0.675 | 152.6 | 9.9 | -0.78 | 1.291 | 121.8 | 0.783 | 3.159 | 285.8 | 549.7 | 0.686 | 5.631 | 1.14 | 0.238 | 60.1 | 352.3 | 0.6 | 0.242 |
| 4-4120 | 4-5480 | 0.685 | 153.3 | 9.8 | -0.74 | 1.291 | 122.4 | 0.786 | 3.167 | 284.7 | 550.1 | 0.677 | 5.657 | 1.13 | 0.241 | 58.6 | 352.7 | 0.6 | 0.246 |
| 4-4120 | 4-5500 | 0.695 | 153.9 | 9.6 | -0.71 | 1.291 | 123.0 | 0.790 | 3.176 | 283.5 | 550.5 | 0.668 | 5.684 | 1.13 | 0.244 | 57.1 | 353.1 | 0.6 | 0.250 |
| 4-4120 | 4-5520 | 0.705 | 154.6 | 9.4 | -0.68 | 1.292 | 123.5 | 0.793 | 3.185 | 282.3 | 550.9 | 0.658 | 5.712 | 1.13 | 0.246 | 55.7 | 353.6 | 0.6 | 0.254 |
| 4-4120 | 4-5540 | 0.715 | 155.2 | 9.2 | -0.65 | 1.292 | 124.1 | 0.797 | 3.195 | 281.1 | 551.3 | 0.648 | 5.741 | 1.13 | 0.249 | 54.4 | 354.2 | 0.6 | 0.259 |
| 4-4120 | 4-5560 | 0.726 | 155.9 | 9.1 | -0.62 | 1.293 | 124.7 | 0.801 | 3.204 | 279.9 | 551.7 | 0.637 | 5.771 | 1.13 | 0.252 | 53.0 | 354.8 | 0.6 | 0.263 |
| 4-4120 | 4-5580 | 0.737 | 156.6 | 8.9 | -0.59 | 1.293 | 125.4 | 0.805 | 3.214 | 278.7 | 552.0 | 0.627 | 5.802 | 1.13 | 0.254 | 51.8 | 355.5 | 0.6 | 0.267 |
| 4-4120 | 4-5600 | 0.748 | 157.3 | 8.7 | -0.56 | 1.293 | 126.0 | 0.809 | 3.225 | 277.4 | 552.3 | 0.616 | 5.834 | 1.13 | 0.257 | 50.5 | 356.3 | 0.6 | 0.272 |
| 4-4120 | 4-5620 | 0.760 | 158.0 | 8.5 | -0.52 | 1.294 | 126.7 | 0.813 | 3.235 | 276.1 | 552.6 | 0.604 | 5.866 | 1.14 | 0.260 | 49.3 | 357.1 | 0.7 | 0.277 |
| 4-4120 | 4-5640 | 0.772 | 158.7 | 8.3 | -0.49 | 1.294 | 127.3 | 0.817 | 3.246 | 274.8 | 552.9 | 0.593 | 5.899 | 1.14 | 0.263 | 48.1 | 357.9 | 0.7 | 0.282 |
| 4-4120 | 4-5660 | 0.784 | 159.3 | 8.1 | -0.46 | 1.294 | 128.0 | 0.822 | 3.257 | 273.4 | 553.1 | 0.581 | 5.933 | 1.15 | 0.266 | 46.9 | 358.8 | 0.7 | 0.286 |
| 4-4120 | 4-5680 | 0.796 | 160.0 | 7.8 | -0.43 | 1.295 | 128.7 | 0.826 | 3.268 | 272.0 | 553.4 | 0.569 | 5.968 | 1.15 | 0.269 | 45.8 | 359.7 | 0.7 | 0.291 |
| 4-4120 | 4-5700 | 0.809 | 160.7 | 7.6 | -0.39 | 1.295 | 129.5 | 0.830 | 3.280 | 270.6 | 553.6 | 0.556 | 6.003 | 1.16 | 0.272 | 44.7 | 0.7 | 0.8 | 0.296 |
| 4-4120 | 4-5720 | 0.822 | 161.4 | 7.4 | -0.36 | 1.296 | 130.2 | 0.835 | 3.291 | 269.2 | 553.8 | 0.543 | 6.039 | 1.17 | 0.274 | 43.6 | 1.7 | 0.8 | 0.301 |
| 4-4130 | 4-4550 | 0.763 | 143.1 | -11.8 | -14.65 | 1.436 | 117.6 | 1.05 | 813.638 | 306.4 | 491.3 | 0.796 | --- | 14.25 | 0.664 | 159.3 | 20.6 | 6.2 | 0.646 |
| 4-4130 | 4-4570 | 0.712 | 143.1 | -7.0 | -11.33 | 1.417 | 116.6 | 1.01 | 649.853 | 307.2 | 493.7 | 0.806 | --- | 10.94 | 0.623 | 157.9 | 21.1 | 5.3 | 0.602 |
| 4-4130 | 4-4590 | 0.675 | 143.0 | -3.8 | -9.25 | 1.401 | 115.7 | 0.97 | 939.466 | 308.0 | 495.9 | 0.815 | --- | 8.88 | 0.585 | 156.5 | 21.4 | 4.8 | 0.564 |
| 4-4130 | 4-4610 | 0.645 | 142.8 | -1.6 | -7.82 | 1.387 | 114.9 | 0.94 | 715.555 | 308.7 | 498.2 | 0.823 | --- | 7.47 | 0.550 | 155.0 | 21.6 | 4.4 | 0.529 |
| 4-4130 | 4-4630 | 0.620 | 142.7 | 0.1 | -6.79 | 1.375 | 114.2 | 0.91 | 910.223 | 309.4 | 500.4 | 0.830 | --- | 6.45 | 0.519 | 153.5 | 21.8 | 4.1 | 0.497 |
| 4-4130 | 4-4650 | 0.599 | 142.5 | 1.5 | -6.00 | 1.364 | 113.5 | 0.894 | 7.887 | 310.0 | 502.5 | 0.837 | --- | 5.68 | 0.490 | 151.9 | 21.8 | 3.9 | 0.468 |
| 4-4130 | 4-4670 | 0.581 | 142.2 | 2.6 | -5.38 | 1.355 | 112.9 | 0.872 | 6.583 | 310.6 | 504.6 | 0.843 | --- | 5.08 | 0.464 | 150.2 | 21.7 | 3.8 | 0.441 |
| 4-4130 | 4-4690 | 0.565 | 142.0 | 3.6 | -4.88 | 1.347 | 112.4 | 0.853 | 5.756 | 311.1 | 506.6 | 0.848 | --- | 4.59 | 0.439 | 148.5 | 21.6 | 3.7 | 0.417 |
| 4-4130 | 4-4710 | 0.552 | 141.9 | 4.3 | -4.47 | 1.340 | 111.9 | 0.836 | 5.187 | 311.6 | 508.6 | 0.852 | --- | 4.19 | 0.417 | 146.6 | 21.4 | 3.6 | 0.394 |
| 4-4130 | 4-4730 | 0.540 | 141.7 | 5.0 | -4.12 | 1.334 | 111.5 | 0.821 | 4.775 | 312.0 | 510.5 | 0.856 | --- | 3.86 | 0.397 | 144.7 | 21.1 | 3.5 | 0.374 |
| 4-4130 | 4-4750 | 0.529 | 141.6 | 5.6 | -3.82 | 1.328 | 111.1 | 0.808 | 4.465 | 312.3 | 512.3 | 0.859 | --- | 3.58 | 0.378 | 142.8 | 20.8 | 3.4 | 0.355 |
| 4-4130 | 4-4770 | 0.521 | 141.5 | 6.2 | -3.56 | 1.323 | 110.8 | 0.796 | 4.224 | 312.6 | 514.1 | 0.862 | --- | 3.34 | 0.360 | 140.7 | 20.3 | 3.3 | 0.337 |
| 4-4130 | 4-4790 | 0.513 | 141.4 | 6.7 | -3.34 | 1.319 | 110.6 | 0.786 | 4.034 | 312.9 | 515.9 | 0.865 | --- | 3.13 | 0.345 | 138.6 | 19.7 | 3.3 | 0.321 |
| 4-4130 | 4-4810 | 0.506 | 141.4 | 7.1 | -3.14 | 1.315 | 110.4 | 0.777 | 3.880 | 313.0 | 517.5 | 0.866 | --- | 2.95 | 0.330 | 136.4 | 19.1 | 3.2 | 0.306 |
| 4-4130 | 4-4830 | 0.501 | 141.4 | 7.5 | -2.96 | 1.312 | 110.2 | 0.769 | 3.754 | 313.1 | 519.2 | 0.868 | --- | 2.79 | 0.317 | 134.2 | 18.4 | 3.1 | 0.292 |
| 4-4130 | 4-4850 | 0.496 | 141.4 | 7.8 | -2.80 | 1.309 | 110.1 | 0.762 | 3.650 | 313.2 | 520.7 | 0.869 | --- | 2.65 | 0.304 | 131.8 | 17.6 | 3.1 | 0.280 |
| 4-4130 | 4-4870 | 0.493 | 141.5 | 8.1 | -2.66 | 1.307 | 110.0 | 0.756 | 3.563 | 313.2 | 522.3 | 0.870 | --- | 2.52 | 0.293 | 129.4 | 16.7 | 3.0 | 0.269 |
| 4-4130 | 4-4890 | 0.490 | 141.6 | 8.4 | -2.53 | 1.304 | 109.9 | 0.751 | 3.490 | 313.2 | 523.7 | 0.870 | --- | 2.41 | 0.283 | 127.0 | 15.7 | 2.9 | 0.258 |
| 4-4130 | 4-4910 | 0.488 | 141.8 | 8.6 | -2.41 | 1.302 | 109.9 | 0.746 | 3.429 | 313.1 | 525.2 | 0.870 | --- | 2.31 | 0.274 | 124.5 | 14.7 | 2.9 | 0.249 |
| 4-4130 | 4-4930 | 0.486 | 142.0 | 8.9 | -2.30 | 1.301 | 109.8 | 0.742 | 3.377 | 312.9 | 526.5 | 0.870 | --- | 2.21 | 0.266 | 121.9 | 13.6 | 2.8 | 0.241 |
| 4-4130 | 4-4950 | 0.485 | 142.2 | 9.0 | -2.20 | 1.299 | 109.9 | 0.739 | 3.333 | 312.8 | 527.8 | 0.869 | --- | 2.13 | 0.259 | 119.3 | 12.4 | 2.7 | 0.233 |
| 4-4130 | 4-4970 | 0.485 | 142.5 | 9.2 | -2.10 | 1.298 | 109.9 | 0.737 | 3.295 | 312.5 | 529.1 | 0.868 | --- | 2.05 | 0.252 | 116.7 | 11.2 | 2.6 | 0.226 |
| 4-4130 | 4-4990 | 0.485 | 142.8 | 9.4 | -2.01 | 1.297 | 110.0 | 0.734 | 3.263 | 312.2 | 530.4 | 0.867 | --- | 1.98 | 0.246 | 114.0 | 9.9 | 2.6 | 0.220 |
| 4-4130 | 4-5010 | 0.486 | 143.1 | 9.5 | -1.93 | 1.296 | 110.1 | 0.733 | 3.236 | 311.9 | 531.5 | 0.865 | --- | 1.92 | 0.241 | 111.4 | 8.6 | 2.5 | 0.215 |
| 4-4130 | 4-5030 | 0.487 | 143.5 | 9.6 | -1.86 | 1.295 | 110.2 | 0.731 | 3.213 | 311.5 | 532.7 | 0.863 | --- | 1.86 | 0.237 | 108.7 | 7.3 | 2.4 | 0.211 |
| 4-4130 | 4-5050 | 0.489 | 143.9 | 9.7 | -1.78 | 1.294 | 110.4 | 0.730 | 3.194 | 311.1 | 533.8 | 0.861 | --- | 1.81 | 0.233 | 106.1 | 6.0 | 2.3 | 0.207 |
| 4-4130 | 4-5070 | 0.491 | 144.3 | 9.7 | -1.71 | 1.293 | 110.6 | 0.730 | 3.178 | 310.7 | 534.9 | 0.858 | --- | 1.76 | 0.230 | 103.5 | 4.7 | 2.2 | 0.204 |
| 4-4130 | 4-5090 | 0.493 | 144.8 | 9.8 | -1.65 | 1.293 | 110.7 | 0.730 | 3.164 | 310.2 | 535.9 | 0.856 | --- | 1.71 | 0.228 | 100.8 | 3.4 | 2.1 | 0.202 |
| 4-4130 | 4-5110 | 0.496 | 145.2 | 9.8 | -1.59 | 1.293 | 111.0 | 0.730 | 3.153 | 309.7 | 536.9 | 0.853 | --- | 1.67 | 0.226 | 98.3 | 2.2 | 2.0 | 0.200 |
| 4-4130 | 4-5130 | 0.499 | 145.7 | 9.8 | -1.53 | 1.292 | 111.2 | 0.730 | 3.145 | 309.1 | 537.9 | 0.850 | --- | 1.63 | 0.224 | 95.8 | 1.0 | 1.9 | 0.199 |
| 4-4130 | 4-5150 | 0.503 | 146.3 | 9.8 | -1.47 | 1.292 | 111.4 | 0.730 | 3.138 | 308.5 | 538.8 | 0.846 | --- | 1.59 | 0.223 | 93.3 | 359.9 | 1.8 | 0.198 |
| 4-4130 | 4-5170 | 0.507 | 146.8 | 9.8 | -1.42 | 1.292 | 111.7 | 0.731 | 3.133 | 307.9 | 539.7 | 0.842 | --- | 1.56 | 0.223 | 90.9 | 358.8 | 1.7 | 0.198 |
| 4-4130 | 4-5190 | 0.511 | 147.3 | 9.8 | -1.37 | 1.292 | 112.0 | 0.732 | 3.129 | 307.2 | 540.6 | 0.838 | 5.420 | 1.53 | 0.222 | 88.5 | 357.8 | 1.6 | 0.198 |
| 4-4130 | 4-5210 | 0.516 | 147.9 | 9.7 | -1.32 | 1.292 | 112.3 | 0.733 | 3.127 | 306.5 | 541.4 | 0.834 | 5.420 | 1.50 | 0.222 | 86.2 | 356.9 | 1.5 | 0.199 |
| 4-4130 | 4-5230 | 0.521 | 148.5 | 9.7 | -1.27 | 1.291 | 112.6 | 0.735 | 3.126 | 305.8 | 542.2 | 0.829 | 5.423 | 1.47 | 0.223 | 84.0 | 356.1 | 1.4 | 0.200 |
| 4-4130 | 4-5250 | 0.526 | 149.1 | 9.6 | -1.22 | 1.291 | 113.0 | 0.736 | 3.126 | 305.1 | 543.0 | 0.825 | 5.428 | 1.44 | 0.224 | 81.8 | 355.4 | 1.3 | 0.201 |
| 4-4130 | 4-5270 | 0.532 | 149.7 | 9.5 | -1.18 | 1.292 | 113.3 | 0.738 | 3.128 | 304.3 | 543.7 | 0.820 | 5.436 | 1.42 | 0.224 | 79.7 | 354.8 | 1.3 | 0.203 |
| 4-4130 | 4-5290 | 0.538 | 150.4 | 9.4 | -1.13 | 1.292 | 113.7 | 0.740 | 3.130 | 303.5 | 544.4 | 0.814 | 5.446 | 1.40 | 0.226 | 77.7 | 354.2 | 1.2 | 0.205 |
| 4-4130 | 4-5310 | 0.544 | 151.0 | 9.4 | -1.09 | 1.292 | 114.1 | 0.742 | 3.133 | 302.6 | 545.1 | 0.809 | 5.457 | 1.38 | 0.227 | 75.7 | 353.8 | 1.1 | 0.207 |
| 4-4130 | 4-5330 | 0.551 | 151.7 | 9.2 | -1.05 | 1.292 | 114.5 | 0.744 | 3.137 | 301.7 | 545.8 | 0.803 | 5.471 | 1.36 | 0.229 | 73.8 | 353.5 | 1.1 | 0.209 |
| 4-4130 | 4-5350 | 0.558 | 152.3 | 9.1 | -1.01 | 1.292 | 114.9 | 0.746 | 3.141 | 300.8 | 546.5 | 0.797 | 5.486 | 1.34 | 0.230 | 72.0 | 353.2 | 1.0 | 0.212 |
| 4-4130 | 4-5370 | 0.565 | 153.0 | 9.0 | -0.97 | 1.292 | 115.3 | 0.749 | 3.147 | 299.9 | 547.1 | 0.790 | 5.503 | 1.33 | 0.232 | 70.2 | 353.1 | 1.0 | 0.215 |
| 4-4130 | 4-5390 | 0.572 | 153.7 | 8.9 | -0.93 | 1.292 | 115.7 | 0.751 | 3.152 | 298.9 | 547.7 | 0.783 | 5.521 | 1.31 | 0.234 | 68.5 | 353.0 | 0.9 | 0.218 |
| 4-4130 | 4-5410 | 0.580 | 154.3 | 8.7 | -0.89 | 1.293 | 116.2 | 0.754 | 3.159 | 298.0 | 548.3 | 0.776 | 5.541 | 1.30 | 0.236 | 66.9 | 353.0 | 0.9 | 0.221 |
| 4-4130 | 4-5430 | 0.588 | 155.0 | 8.6 | -0.86 | 1.293 | 116.7 | 0.757 | 3.166 | 297.0 | 548.8 | 0.769 | 5.562 | 1.29 | 0.239 | 65.3 | 353.1 | 0.9 | 0.224 |
| 4-4130 | 4-5450 | 0.596 | 155.7 | 8.4 | -0.82 | 1.293 | 117.2 | 0.760 | 3.173 | 295.9 | 549.3 | 0.762 | 5.584 | 1.28 | 0.241 | 63.8 | 353.3 | 0.9 | 0.228 |
| 4-4130 | 4-5470 | 0.605 | 156.4 | 8.3 | -0.78 | 1.294 | 117.7 | 0.763 | 3.181 | 294.9 | 549.8 | 0.754 | 5.607 | 1.27 | 0.243 | 62.3 | 353.5 | 0.8 | 0.231 |
| 4-4130 | 4-5490 | 0.613 | 157.1 | 8.1 | -0.75 | 1.294 | 118.2 | 0.766 | 3.189 | 293.8 | 550.3 | 0.746 | 5.632 | 1.26 | 0.246 | 60.9 | 353.8 | 0.8 | 0.235 |
| 4-4130 | 4-5510 | 0.623 | 157.8 | 7.9 | -0.71 | 1.294 | 118.7 | 0.769 | 3.197 | 292.7 | 550.8 | 0.737 | 5.657 | 1.25 | 0.248 | 59.5 | 354.2 | 0.8 | 0.239 |
| 4-4130 | 4-5530 | 0.632 | 158.5 | 7.7 | -0.68 | 1.295 | 119.2 | 0.773 | 3.206 | 291.5 | 551.2 | 0.729 | 5.684 | 1.24 | 0.251 | 58.1 | 354.7 | 0.8 | 0.243 |
| 4-4130 | 4-5550 | 0.642 | 159.2 | 7.5 | -0.64 | 1.295 | 119.8 | 0.776 | 3.215 | 290.4 | 551.7 | 0.720 | 5.711 | 1.24 | 0.253 | 56.8 | 355.2 | 0.8 | 0.247 |
| 4-4130 | 4-5570 | 0.651 | 160.0 | 7.3 | -0.61 | 1.295 | 120.4 | 0.780 | 3.225 | 289.2 | 552.1 | 0.710 | 5.740 | 1.23 | 0.256 | 55.6 | 355.8 | 0.8 | 0.251 |
| 4-4130 | 4-5590 | 0.662 | 160.7 | 7.1 | -0.57 | 1.296 | 121.0 | 0.783 | 3.235 | 288.0 | 552.4 | 0.701 | 5.769 | 1.23 | 0.259 | 54.3 | 356.4 | 0.8 | 0.255 |
| 4-4130 | 4-5610 | 0.672 | 161.4 | 6.9 | -0.54 | 1.296 | 121.6 | 0.787 | 3.245 | 286.8 | 552.8 | 0.691 | 5.799 | 1.23 | 0.261 | 53.1 | 357.1 | 0.8 | 0.260 |
| 4-4130 | 4-5630 | 0.683 | 162.1 | 6.7 | -0.51 | 1.296 | 122.2 | 0.791 | 3.255 | 285.5 | 553.1 | 0.681 | 5.830 | 1.22 | 0.264 | 52.0 | 357.9 | 0.9 | 0.264 |
| 4-4130 | 4-5650 | 0.694 | 162.9 | 6.5 | -0.47 | 1.297 | 122.8 | 0.795 | 3.266 | 284.2 | 553.5 | 0.670 | 5.861 | 1.22 | 0.267 | 50.8 | 358.7 | 0.9 | 0.268 |
| 4-4130 | 4-5670 | 0.705 | 163.6 | 6.3 | -0.44 | 1.297 | 123.4 | 0.799 | 3.277 | 282.9 | 553.8 | 0.659 | 5.894 | 1.22 | 0.270 | 49.7 | 359.5 | 0.9 | 0.273 |
| 4-4130 | 4-5690 | 0.717 | 164.3 | 6.0 | -0.40 | 1.298 | 124.1 | 0.803 | 3.287 | 281.6 | 554.0 | 0.648 | 5.927 | 1.22 | 0.273 | 48.6 | 0.4 | 0.9 | 0.278 |
| 4-4130 | 4-5710 | 0.728 | 165.0 | 5.8 | -0.37 | 1.298 | 124.8 | 0.807 | 3.299 | 280.3 | 554.3 | 0.637 | 5.961 | 1.23 | 0.275 | 47.6 | 1.3 | 1.0 | 0.282 |
| 4-4130 | 4-5730 | 0.741 | 165.8 | 5.6 | -0.33 | 1.298 | 125.5 | 0.811 | 3.310 | 278.9 | 554.5 | 0.625 | 5.995 | 1.23 | 0.278 | 46.5 | 2.3 | 1.0 | 0.287 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4140 | 4-4560 | 0.727 | 170.3 | 38.9 | 16.81 | 1.437 | 113.7 | 1.06213 | 701 | 314.1 | 489.8 | 0.847 | --- | -17.09 | 0.664 | 158.5 | 22.2 | -5.2 | 0.643 |
| 4-4140 | 4-4580 | 0.796 | 185.3 | 48.2 | 25.50 | 1.419 | 112.6 | 1.01749 | 584 | 315.1 | 492.2 | 0.856 | --- | -25.77 | 0.623 | 157.2 | 21.3 | -8.8 | 0.611 |
| 4-4140 | 4-4600 | 1.099 | 224.6 | 50.0 | 48.05 | 1.403 | 111.7 | 0.97840 | 227 | 316.2 | 494.5 | 0.865 | --- | -48.30 | 0.585 | 155.8 | 16.7 | -16.1 | 0.615 |
| 4-4140 | 4-4620 | 1.483 | 190.3 | -70.0 | -74.09 | 1.389 | 111.5 | 0.94515 | 747 | 315.7 | 497.0 | 0.865 | --- | 73.85 | 0.551 | 154.4 | 6.7 | 21.1 | 0.647 |
| 4-4140 | 4-4640 | 0.869 | 142.7 | -47.5 | -34.46 | 1.377 | 110.6 | 0.91510 | 333 | 316.9 | 499.2 | 0.874 | --- | 34.24 | 0.520 | 152.8 | 18.3 | 15.7 | 0.526 |
| 4-4140 | 4-4660 | 0.673 | 140.0 | -30.1 | -20.90 | 1.367 | 109.8 | 0.889 | 7.966 | 317.7 | 501.4 | 0.881 | --- | 20.70 | 0.491 | 151.2 | 21.2 | 11.2 | 0.477 |
| 4-4140 | 4-4680 | 0.594 | 140.2 | -20.0 | -14.85 | 1.357 | 109.2 | 0.867 | 6.647 | 318.4 | 503.5 | 0.886 | --- | 14.66 | 0.465 | 149.5 | 22.0 | 8.9 | 0.445 |
| 4-4140 | 4-4700 | 0.551 | 140.6 | -13.6 | -11.49 | 1.349 | 108.7 | 0.847 | 5.809 | 319.0 | 505.6 | 0.891 | --- | 11.32 | 0.441 | 147.8 | 22.3 | 7.5 | 0.418 |
| 4-4140 | 4-4720 | 0.524 | 140.9 | -9.3 | -9.37 | 1.342 | 108.3 | 0.829 | 5.234 | 319.6 | 507.6 | 0.895 | --- | 9.22 | 0.419 | 146.0 | 22.3 | 6.6 | 0.394 |
| 4-4140 | 4-4740 | 0.505 | 141.2 | -6.2 | -7.91 | 1.336 | 107.9 | 0.814 | 4.818 | 320.0 | 509.5 | 0.898 | --- | 7.77 | 0.399 | 144.1 | 22.2 | 6.0 | 0.373 |
| 4-4140 | 4-4760 | 0.490 | 141.3 | -3.8 | -6.84 | 1.331 | 107.5 | 0.800 | 4.504 | 320.4 | 511.4 | 0.901 | --- | 6.72 | 0.380 | 142.1 | 21.9 | 5.6 | 0.353 |
| 4-4140 | 4-4780 | 0.478 | 141.4 | -1.9 | -6.02 | 1.326 | 107.2 | 0.788 | 4.261 | 320.8 | 513.3 | 0.904 | --- | 5.92 | 0.363 | 140.1 | 21.5 | 5.2 | 0.335 |
| 4-4140 | 4-4800 | 0.468 | 141.5 | -0.4 | -5.38 | 1.322 | 106.9 | 0.777 | 4.068 | 321.0 | 515.1 | 0.906 | --- | 5.30 | 0.348 | 138.0 | 21.0 | 5.0 | 0.319 |
| 4-4140 | 4-4820 | 0.460 | 141.6 | 0.9 | -4.86 | 1.318 | 106.7 | 0.768 | 3.912 | 321.2 | 516.8 | 0.908 | --- | 4.80 | 0.333 | 135.8 | 20.4 | 4.7 | 0.304 |
| 4-4140 | 4-4840 | 0.454 | 141.8 | 2.0 | -4.43 | 1.315 | 106.6 | 0.760 | 3.785 | 321.4 | 518.5 | 0.909 | --- | 4.38 | 0.320 | 133.6 | 19.8 | 4.5 | 0.290 |
| 4-4140 | 4-4860 | 0.448 | 141.9 | 2.9 | -4.07 | 1.312 | 106.4 | 0.753 | 3.680 | 321.5 | 520.1 | 0.910 | --- | 4.04 | 0.308 | 131.3 | 19.0 | 4.4 | 0.278 |
| 4-4140 | 4-4880 | 0.444 | 142.1 | 3.7 | -3.76 | 1.310 | 106.3 | 0.747 | 3.592 | 321.6 | 521.6 | 0.910 | --- | 3.74 | 0.297 | 128.9 | 18.2 | 4.2 | 0.266 |
| 4-4140 | 4-4900 | 0.440 | 142.3 | 4.3 | -3.49 | 1.307 | 106.3 | 0.741 | 3.518 | 321.5 | 523.1 | 0.911 | --- | 3.49 | 0.287 | 126.5 | 17.2 | 4.1 | 0.256 |
| 4-4140 | 4-4920 | 0.437 | 142.5 | 4.9 | -3.25 | 1.305 | 106.2 | 0.736 | 3.456 | 321.5 | 524.6 | 0.911 | --- | 3.28 | 0.278 | 124.1 | 16.2 | 3.9 | 0.246 |
| 4-4140 | 4-4940 | 0.435 | 142.8 | 5.4 | -3.05 | 1.304 | 106.2 | 0.732 | 3.404 | 321.4 | 526.0 | 0.911 | --- | 3.09 | 0.270 | 121.6 | 15.1 | 3.8 | 0.238 |
| 4-4140 | 4-4960 | 0.434 | 143.1 | 5.9 | -2.86 | 1.302 | 106.2 | 0.729 | 3.359 | 321.2 | 527.3 | 0.910 | --- | 2.92 | 0.263 | 119.0 | 14.0 | 3.7 | 0.230 |
| 4-4140 | 4-4980 | 0.433 | 143.5 | 6.3 | -2.70 | 1.301 | 106.3 | 0.726 | 3.321 | 321.0 | 528.6 | 0.909 | --- | 2.77 | 0.257 | 116.5 | 12.8 | 3.5 | 0.223 |
| 4-4140 | 4-5000 | 0.433 | 143.8 | 6.6 | -2.54 | 1.300 | 106.4 | 0.724 | 3.288 | 320.7 | 529.9 | 0.908 | --- | 2.64 | 0.251 | 113.9 | 11.6 | 3.4 | 0.217 |
| 4-4140 | 4-5020 | 0.433 | 144.2 | 6.9 | -2.41 | 1.299 | 106.5 | 0.722 | 3.261 | 320.4 | 531.1 | 0.907 | --- | 2.52 | 0.246 | 111.3 | 10.3 | 3.3 | 0.212 |
| 4-4140 | 4-5040 | 0.434 | 144.7 | 7.1 | -2.28 | 1.298 | 106.6 | 0.720 | 3.238 | 320.1 | 532.3 | 0.906 | --- | 2.41 | 0.242 | 108.7 | 9.0 | 3.1 | 0.208 |
| 4-4140 | 4-5060 | 0.435 | 145.2 | 7.4 | -2.17 | 1.297 | 106.7 | 0.719 | 3.218 | 319.7 | 533.4 | 0.904 | --- | 2.32 | 0.239 | 106.2 | 7.7 | 3.0 | 0.204 |
| 4-4140 | 4-5080 | 0.437 | 145.7 | 7.5 | -2.06 | 1.296 | 106.9 | 0.718 | 3.201 | 319.3 | 534.5 | 0.902 | --- | 2.23 | 0.236 | 103.6 | 6.4 | 2.9 | 0.201 |
| 4-4140 | 4-5100 | 0.439 | 146.2 | 7.7 | -1.96 | 1.296 | 107.1 | 0.718 | 3.188 | 318.8 | 535.5 | 0.900 | --- | 2.15 | 0.233 | 101.1 | 5.2 | 2.8 | 0.198 |
| 4-4140 | 4-5120 | 0.441 | 146.8 | 7.8 | -1.87 | 1.296 | 107.3 | 0.718 | 3.177 | 318.3 | 536.6 | 0.897 | --- | 2.07 | 0.231 | 98.6 | 3.9 | 2.6 | 0.196 |
| 4-4140 | 4-5140 | 0.444 | 147.3 | 7.9 | -1.78 | 1.295 | 107.5 | 0.718 | 3.168 | 317.8 | 537.5 | 0.895 | --- | 2.01 | 0.230 | 96.2 | 2.7 | 2.5 | 0.195 |
| 4-4140 | 4-5160 | 0.447 | 148.0 | 8.0 | -1.70 | 1.295 | 107.7 | 0.718 | 3.161 | 317.2 | 538.5 | 0.892 | --- | 1.95 | 0.229 | 93.8 | 1.6 | 2.4 | 0.194 |
| 4-4140 | 4-5180 | 0.451 | 148.6 | 8.0 | -1.63 | 1.295 | 108.0 | 0.718 | 3.155 | 316.6 | 539.4 | 0.889 | --- | 1.89 | 0.228 | 91.5 | 0.5 | 2.3 | 0.193 |
| 4-4140 | 4-5200 | 0.454 | 149.2 | 8.0 | -1.55 | 1.295 | 108.2 | 0.719 | 3.152 | 316.0 | 540.3 | 0.886 | 5.418 | 1.84 | 0.228 | 89.2 | 359.5 | 2.1 | 0.193 |
| 4-4140 | 4-5220 | 0.458 | 149.9 | 8.0 | -1.49 | 1.294 | 108.5 | 0.720 | 3.149 | 315.3 | 541.2 | 0.882 | 5.417 | 1.79 | 0.228 | 87.0 | 358.6 | 2.0 | 0.194 |
| 4-4140 | 4-5240 | 0.463 | 150.6 | 8.0 | -1.42 | 1.294 | 108.8 | 0.721 | 3.148 | 314.6 | 542.0 | 0.878 | 5.418 | 1.74 | 0.228 | 84.9 | 357.7 | 1.9 | 0.194 |
| 4-4140 | 4-5260 | 0.467 | 151.3 | 8.0 | -1.36 | 1.294 | 109.1 | 0.722 | 3.148 | 313.9 | 542.8 | 0.874 | 5.423 | 1.70 | 0.229 | 82.8 | 357.0 | 1.8 | 0.195 |
| 4-4140 | 4-5280 | 0.472 | 152.0 | 7.9 | -1.30 | 1.294 | 109.5 | 0.724 | 3.150 | 313.1 | 543.6 | 0.870 | 5.429 | 1.66 | 0.230 | 80.8 | 356.3 | 1.7 | 0.197 |
| 4-4140 | 4-5300 | 0.478 | 152.7 | 7.9 | -1.24 | 1.295 | 109.8 | 0.725 | 3.152 | 312.3 | 544.3 | 0.866 | 5.438 | 1.63 | 0.231 | 78.8 | 355.8 | 1.6 | 0.198 |
| 4-4140 | 4-5320 | 0.483 | 153.4 | 7.8 | -1.19 | 1.295 | 110.2 | 0.727 | 3.155 | 311.5 | 545.0 | 0.861 | 5.448 | 1.60 | 0.232 | 77.0 | 355.3 | 1.6 | 0.200 |
| 4-4140 | 4-5340 | 0.489 | 154.2 | 7.7 | -1.14 | 1.295 | 110.6 | 0.729 | 3.158 | 310.6 | 545.7 | 0.856 | 5.461 | 1.56 | 0.234 | 75.1 | 354.9 | 1.5 | 0.203 |
| 4-4140 | 4-5360 | 0.495 | 154.9 | 7.6 | -1.09 | 1.295 | 111.0 | 0.731 | 3.163 | 309.8 | 546.4 | 0.851 | 5.475 | 1.54 | 0.235 | 73.4 | 354.6 | 1.4 | 0.205 |
| 4-4140 | 4-5380 | 0.502 | 155.7 | 7.5 | -1.04 | 1.295 | 111.4 | 0.733 | 3.168 | 308.9 | 547.1 | 0.845 | 5.490 | 1.51 | 0.237 | 71.7 | 354.4 | 1.3 | 0.207 |
| 4-4140 | 4-5400 | 0.508 | 156.4 | 7.3 | -0.99 | 1.295 | 111.8 | 0.735 | 3.173 | 307.9 | 547.7 | 0.840 | 5.507 | 1.49 | 0.239 | 70.1 | 354.3 | 1.3 | 0.210 |
| 4-4140 | 4-5420 | 0.515 | 157.2 | 7.2 | -0.94 | 1.296 | 112.2 | 0.738 | 3.180 | 307.0 | 548.3 | 0.834 | 5.525 | 1.46 | 0.241 | 68.5 | 354.3 | 1.2 | 0.213 |
| 4-4140 | 4-5440 | 0.523 | 158.0 | 7.0 | -0.90 | 1.296 | 112.7 | 0.740 | 3.186 | 306.0 | 548.9 | 0.828 | 5.545 | 1.44 | 0.243 | 67.0 | 354.3 | 1.2 | 0.216 |
| 4-4140 | 4-5460 | 0.530 | 158.7 | 6.9 | -0.85 | 1.296 | 113.1 | 0.743 | 3.194 | 305.0 | 549.4 | 0.821 | 5.566 | 1.42 | 0.245 | 65.5 | 354.5 | 1.2 | 0.219 |
| 4-4140 | 4-5480 | 0.538 | 159.5 | 6.7 | -0.81 | 1.296 | 113.6 | 0.746 | 3.201 | 304.0 | 550.0 | 0.814 | 5.588 | 1.40 | 0.248 | 64.1 | 354.7 | 1.1 | 0.223 |
| 4-4140 | 4-5500 | 0.546 | 160.3 | 6.5 | -0.77 | 1.297 | 114.1 | 0.748 | 3.209 | 302.9 | 550.5 | 0.807 | 5.611 | 1.39 | 0.250 | 62.7 | 355.0 | 1.1 | 0.226 |
| 4-4140 | 4-5520 | 0.554 | 161.1 | 6.3 | -0.73 | 1.297 | 114.6 | 0.751 | 3.218 | 301.8 | 551.0 | 0.800 | 5.635 | 1.37 | 0.253 | 61.4 | 355.3 | 1.1 | 0.230 |
| 4-4140 | 4-5540 | 0.563 | 161.9 | 6.1 | -0.69 | 1.297 | 115.1 | 0.754 | 3.226 | 300.7 | 551.5 | 0.793 | 5.660 | 1.36 | 0.255 | 60.1 | 355.7 | 1.1 | 0.233 |
| 4-4140 | 4-5560 | 0.572 | 162.6 | 5.9 | -0.65 | 1.298 | 115.6 | 0.757 | 3.235 | 299.6 | 551.9 | 0.785 | 5.686 | 1.35 | 0.258 | 58.8 | 356.2 | 1.1 | 0.237 |
| 4-4140 | 4-5580 | 0.581 | 163.4 | 5.7 | -0.61 | 1.298 | 116.1 | 0.761 | 3.245 | 298.5 | 552.4 | 0.777 | 5.713 | 1.34 | 0.260 | 57.6 | 356.8 | 1.0 | 0.241 |
| 4-4140 | 4-5600 | 0.590 | 164.2 | 5.5 | -0.57 | 1.298 | 116.7 | 0.764 | 3.254 | 297.3 | 552.8 | 0.768 | 5.741 | 1.33 | 0.263 | 56.5 | 357.3 | 1.0 | 0.245 |
| 4-4140 | 4-5620 | 0.600 | 165.0 | 5.3 | -0.54 | 1.299 | 117.3 | 0.767 | 3.264 | 296.1 | 553.2 | 0.760 | 5.769 | 1.32 | 0.265 | 55.3 | 358.0 | 1.0 | 0.249 |
| 4-4140 | 4-5640 | 0.610 | 165.8 | 5.1 | -0.50 | 1.299 | 117.8 | 0.771 | 3.275 | 294.9 | 553.6 | 0.751 | 5.799 | 1.31 | 0.268 | 54.2 | 358.7 | 1.1 | 0.253 |
| 4-4140 | 4-5660 | 0.620 | 166.6 | 4.8 | -0.46 | 1.300 | 118.4 | 0.774 | 3.285 | 293.7 | 553.9 | 0.741 | 5.829 | 1.30 | 0.271 | 53.1 | 359.5 | 1.1 | 0.257 |
| 4-4140 | 4-5680 | 0.630 | 167.4 | 4.6 | -0.42 | 1.300 | 119.0 | 0.778 | 3.296 | 292.4 | 554.3 | 0.732 | 5.860 | 1.30 | 0.273 | 52.1 | 0.3 | 1.1 | 0.261 |
| 4-4140 | 4-5700 | 0.641 | 168.2 | 4.3 | -0.39 | 1.300 | 119.6 | 0.782 | 3.306 | 291.1 | 554.6 | 0.722 | 5.891 | 1.29 | 0.276 | 51.0 | 1.1 | 1.1 | 0.266 |
| 4-4140 | 4-5720 | 0.652 | 168.9 | 4.1 | -0.35 | 1.301 | 120.3 | 0.786 | 3.317 | 289.8 | 554.9 | 0.712 | 5.923 | 1.29 | 0.279 | 50.0 | 2.0 | 1.1 | 0.270 |
| 4-4140 | 4-5740 | 0.663 | 169.7 | 3.8 | -0.31 | 1.301 | 120.9 | 0.789 | 3.329 | 288.5 | 555.2 | 0.701 | 5.956 | 1.29 | 0.282 | 49.0 | 2.9 | 1.2 | 0.275 |
| 4-4150 | 4-4550 | 0.627 | 159.4 | 20.3 | 4.93 | 1.459 | 110.7 | 1.116 | -7.630 | 320.9 | 486.1 | 0.882 | --- | -5.11 | 0.706 | 159.2 | 23.7 | -0.7 | 0.675 |
| 4-4150 | 4-4570 | 0.597 | 159.3 | 22.3 | 5.51 | 1.438 | 109.7 | 1.06214 | 353 | 321.9 | 488.6 | 0.891 | --- | -5.68 | 0.661 | 157.9 | 24.0 | -1.0 | 0.630 |
| 4-4150 | 4-4590 | 0.573 | 159.5 | 24.6 | 6.25 | 1.420 | 108.7 | 1.01656 | 903 | 322.9 | 491.1 | 0.898 | --- | -6.40 | 0.620 | 156.5 | 24.2 | -1.4 | 0.590 |
| 4-4150 | 4-4610 | 0.554 | 160.0 | 27.5 | 7.19 | 1.404 | 107.9 | 0.97637 | 246 | 323.8 | 493.5 | 0.905 | --- | -7.33 | 0.583 | 155.1 | 24.3 | -2.0 | 0.553 |
| 4-4150 | 4-4630 | 0.540 | 161.1 | 31.0 | 8.46 | 1.391 | 107.1 | 0.94115 | 393 | 324.7 | 495.9 | 0.911 | --- | -8.58 | 0.550 | 153.6 | 24.4 | -2.8 | 0.520 |
| 4-4150 | 4-4650 | 0.535 | 163.3 | 35.5 | 10.24 | 1.379 | 106.4 | 0.91010 | 225 | 325.5 | 498.2 | 0.917 | --- | -10.34 | 0.519 | 152.1 | 24.4 | -3.8 | 0.490 |
| 4-4150 | 4-4670 | 0.542 | 167.5 | 41.5 | 12.92 | 1.368 | 105.8 | 0.884 | 7.926 | 326.3 | 500.5 | 0.922 | --- | -13.00 | 0.491 | 150.5 | 24.2 | -5.5 | 0.464 |
| 4-4150 | 4-4690 | 0.578 | 176.6 | 49.2 | 17.41 | 1.359 | 105.2 | 0.860 | 6.633 | 327.0 | 502.7 | 0.926 | --- | -17.48 | 0.465 | 148.8 | 23.6 | -8.2 | 0.443 |
| 4-4150 | 4-4710 | 0.687 | 199.2 | 57.4 | 26.28 | 1.352 | 104.7 | 0.840 | 5.808 | 327.7 | 504.8 | 0.930 | --- | -26.33 | 0.441 | 147.1 | 22.0 | -13.1 | 0.433 |
| 4-4150 | 4-4730 | 1.045 | 243.5 | 52.4 | 49.15 | 1.345 | 104.1 | 0.822 | 5.240 | 328.6 | 506.8 | 0.934 | --- | -49.18 | 0.419 | 145.2 | 15.6 | -22.0 | 0.467 |
| 4-4150 | 4-4750 | 1.432 | 211.0 | -80.1 | -73.67 | 1.339 | 104.4 | 0.807 | 4.828 | 327.6 | 509.0 | 0.931 | --- | 73.66 | 0.399 | 143.5 | 4.1 | 25.9 | 0.526 |
| 4-4150 | 4-4770 | 0.797 | 135.2 | -56.8 | -34.59 | 1.333 | 103.9 | 0.793 | 4.517 | 328.6 | 510.9 | 0.936 | --- | 34.59 | 0.381 | 141.5 | 16.9 | 20.9 | 0.395 |
| 4-4150 | 4-4790 | 0.586 | 134.6 | -38.2 | -20.98 | 1.329 | 103.5 | 0.781 | 4.275 | 329.1 | 512.7 | 0.938 | --- | 21.00 | 0.364 | 139.4 | 20.1 | 15.1 | 0.350 |
| 4-4150 | 4-4810 | 0.502 | 135.9 | -26.6 | -14.86 | 1.324 | 103.2 | 0.770 | 4.083 | 329.5 | 514.5 | 0.940 | --- | 14.90 | 0.349 | 137.3 | 20.8 | 11.9 | 0.325 |
| 4-4150 | 4-4830 | 0.461 | 137.1 | -18.9 | -11.46 | 1.321 | 103.0 | 0.760 | 3.928 | 329.7 | 516.3 | 0.942 | --- | 11.51 | 0.335 | 135.2 | 20.8 | 10.0 | 0.306 |
| 4-4150 | 4-4850 | 0.438 | 138.0 | -13.6 | -9.30 | 1.318 | 102.9 | 0.752 | 3.802 | 329.9 | 518.0 | 0.943 | --- | 9.37 | 0.322 | 133.0 | 20.4 | 8.7 | 0.291 |
| 4-4150 | 4-4870 | 0.422 | 138.7 | -9.7 | -7.82 | 1.315 | 102.7 | 0.745 | 3.697 | 330.1 | 519.6 | 0.944 | --- | 7.91 | 0.310 | 130.7 | 19.8 | 7.8 | 0.277 |
| 4-4150 | 4-4890 | 0.412 | 139.4 | -6.7 | -6.73 | 1.312 | 102.6 | 0.738 | 3.610 | 330.2 | 521.2 | 0.944 | --- | 6.84 | 0.300 | 128.3 | 19.1 | 7.1 | 0.265 |
| 4-4150 | 4-4910 | 0.404 | 139.9 | -4.4 | -5.90 | 1.310 | 102.6 | 0.733 | 3.536 | 330.2 | 522.7 | 0.945 | --- | 6.03 | 0.290 | 126.0 | 18.2 | 6.5 | 0.254 |
| 4-4150 | 4-4930 | 0.399 | 140.5 | -2.5 | -5.25 | 1.308 | 102.5 | 0.728 | 3.474 | 330.1 | 524.2 | 0.945 | --- | 5.39 | 0.281 | 123.5 | 17.3 | 6.1 | 0.245 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4150 | 4-4950 | 0.395 | 141.0 | -1.0 | -4.72 | 1.306 | 102.5 | 0.724 | 3.422 | 330.1 | 525.6 | 0.945 | --- | 4.88 | 0.273 | 121.1 | 16.2 | 5.7 | 0.236 |
| 4-4150 | 4-4970 | 0.392 | 141.5 | 0.3 | -4.28 | 1.305 | 102.5 | 0.720 | 3.377 | 329.9 | 527.0 | 0.944 | --- | 4.46 | 0.266 | 118.6 | 15.1 | 5.4 | 0.228 |
| 4-4150 | 4-4990 | 0.390 | 142.1 | 1.4 | -3.91 | 1.304 | 102.6 | 0.717 | 3.339 | 329.7 | 528.3 | 0.944 | --- | 4.10 | 0.260 | 116.1 | 14.0 | 5.1 | 0.221 |
| 4-4150 | 4-5010 | 0.389 | 142.6 | 2.3 | -3.59 | 1.302 | 102.7 | 0.715 | 3.307 | 329.5 | 529.6 | 0.943 | --- | 3.81 | 0.255 | 113.6 | 12.8 | 4.8 | 0.215 |
| 4-4150 | 4-5030 | 0.388 | 143.2 | 3.0 | -3.32 | 1.302 | 102.8 | 0.713 | 3.279 | 329.2 | 530.8 | 0.942 | --- | 3.55 | 0.250 | 111.0 | 11.5 | 4.6 | 0.210 |
| 4-4150 | 4-5050 | 0.388 | 143.8 | 3.7 | -3.08 | 1.301 | 102.9 | 0.711 | 3.256 | 328.9 | 532.0 | 0.941 | --- | 3.33 | 0.246 | 108.5 | 10.3 | 4.3 | 0.205 |
| 4-4150 | 4-5070 | 0.388 | 144.5 | 4.2 | -2.87 | 1.300 | 103.0 | 0.710 | 3.236 | 328.5 | 533.1 | 0.939 | --- | 3.13 | 0.243 | 106.0 | 9.0 | 4.1 | 0.201 |
| 4-4150 | 4-5090 | 0.389 | 145.1 | 4.7 | -2.68 | 1.299 | 103.2 | 0.709 | 3.220 | 328.1 | 534.2 | 0.938 | --- | 2.96 | 0.240 | 103.6 | 7.7 | 3.9 | 0.198 |
| 4-4150 | 4-5110 | 0.390 | 145.8 | 5.1 | -2.51 | 1.299 | 103.3 | 0.708 | 3.206 | 327.6 | 535.3 | 0.936 | --- | 2.81 | 0.237 | 101.1 | 6.5 | 3.7 | 0.195 |
| 4-4150 | 4-5130 | 0.392 | 146.5 | 5.4 | -2.36 | 1.298 | 103.5 | 0.708 | 3.195 | 327.2 | 536.3 | 0.934 | --- | 2.68 | 0.235 | 98.7 | 5.3 | 3.5 | 0.193 |
| 4-4150 | 4-5150 | 0.394 | 147.2 | 5.7 | -2.22 | 1.298 | 103.7 | 0.707 | 3.186 | 326.6 | 537.3 | 0.932 | --- | 2.56 | 0.234 | 96.4 | 4.1 | 3.3 | 0.191 |
| 4-4150 | 4-5170 | 0.397 | 148.0 | 5.9 | -2.09 | 1.298 | 104.0 | 0.707 | 3.179 | 326.1 | 538.3 | 0.930 | --- | 2.45 | 0.233 | 94.1 | 2.9 | 3.2 | 0.190 |
| 4-4150 | 4-5190 | 0.399 | 148.7 | 6.1 | -1.97 | 1.298 | 104.2 | 0.708 | 3.174 | 325.5 | 539.2 | 0.928 | --- | 2.35 | 0.232 | 91.8 | 1.9 | 3.0 | 0.189 |
| 4-4150 | 4-5210 | 0.402 | 149.5 | 6.2 | -1.86 | 1.297 | 104.5 | 0.708 | 3.170 | 324.9 | 540.1 | 0.925 | 5.416 | 2.26 | 0.232 | 89.6 | 0.8 | 2.8 | 0.189 |
| 4-4150 | 4-5230 | 0.406 | 150.3 | 6.3 | -1.76 | 1.297 | 104.7 | 0.709 | 3.168 | 324.2 | 541.0 | 0.922 | 5.414 | 2.18 | 0.232 | 87.5 | 359.9 | 2.7 | 0.189 |
| 4-4150 | 4-5250 | 0.410 | 151.1 | 6.4 | -1.67 | 1.297 | 105.0 | 0.710 | 3.167 | 323.5 | 541.9 | 0.919 | 5.415 | 2.10 | 0.233 | 85.5 | 359.1 | 2.5 | 0.190 |
| 4-4150 | 4-5270 | 0.414 | 152.0 | 6.4 | -1.58 | 1.297 | 105.3 | 0.711 | 3.167 | 322.8 | 542.7 | 0.916 | 5.418 | 2.04 | 0.233 | 83.5 | 358.3 | 2.4 | 0.191 |
| 4-4150 | 4-5290 | 0.418 | 152.8 | 6.4 | -1.50 | 1.297 | 105.7 | 0.712 | 3.168 | 322.1 | 543.5 | 0.913 | 5.424 | 1.97 | 0.234 | 81.5 | 357.6 | 2.3 | 0.192 |
| 4-4150 | 4-5310 | 0.422 | 153.7 | 6.4 | -1.42 | 1.297 | 106.0 | 0.713 | 3.170 | 321.3 | 544.2 | 0.909 | 5.432 | 1.92 | 0.235 | 79.6 | 357.1 | 2.1 | 0.193 |
| 4-4150 | 4-5330 | 0.427 | 154.5 | 6.4 | -1.35 | 1.298 | 106.3 | 0.715 | 3.173 | 320.5 | 545.0 | 0.905 | 5.441 | 1.86 | 0.236 | 77.8 | 356.6 | 2.0 | 0.195 |
| 4-4150 | 4-5350 | 0.432 | 155.4 | 6.3 | -1.28 | 1.298 | 106.7 | 0.716 | 3.177 | 319.6 | 545.7 | 0.901 | 5.453 | 1.81 | 0.238 | 76.1 | 356.2 | 1.9 | 0.197 |
| 4-4150 | 4-5370 | 0.438 | 156.3 | 6.2 | -1.21 | 1.298 | 107.1 | 0.718 | 3.181 | 318.8 | 546.4 | 0.897 | 5.466 | 1.77 | 0.240 | 74.4 | 355.9 | 1.8 | 0.199 |
| 4-4150 | 4-5390 | 0.443 | 157.2 | 6.1 | -1.15 | 1.298 | 107.5 | 0.720 | 3.187 | 317.9 | 547.1 | 0.893 | 5.480 | 1.73 | 0.241 | 72.8 | 355.6 | 1.7 | 0.202 |
| 4-4150 | 4-5410 | 0.449 | 158.1 | 6.0 | -1.09 | 1.298 | 107.9 | 0.722 | 3.192 | 317.0 | 547.7 | 0.888 | 5.496 | 1.69 | 0.243 | 71.2 | 355.5 | 1.7 | 0.204 |
| 4-4150 | 4-5430 | 0.456 | 159.0 | 5.8 | -1.03 | 1.299 | 108.3 | 0.724 | 3.198 | 316.1 | 548.3 | 0.883 | 5.514 | 1.65 | 0.245 | 69.7 | 355.4 | 1.6 | 0.207 |
| 4-4150 | 4-5450 | 0.462 | 159.9 | 5.7 | -0.97 | 1.299 | 108.7 | 0.726 | 3.205 | 315.1 | 548.9 | 0.878 | 5.532 | 1.62 | 0.247 | 68.2 | 355.5 | 1.5 | 0.210 |
| 4-4150 | 4-5470 | 0.469 | 160.8 | 5.5 | -0.92 | 1.299 | 109.1 | 0.728 | 3.212 | 314.1 | 549.5 | 0.873 | 5.552 | 1.59 | 0.250 | 66.8 | 355.6 | 1.5 | 0.213 |
| 4-4150 | 4-5490 | 0.476 | 161.7 | 5.4 | -0.87 | 1.299 | 109.6 | 0.731 | 3.220 | 313.1 | 550.1 | 0.867 | 5.573 | 1.56 | 0.252 | 65.5 | 355.8 | 1.4 | 0.216 |
| 4-4150 | 4-5510 | 0.483 | 162.5 | 5.2 | -0.82 | 1.300 | 110.0 | 0.733 | 3.228 | 312.1 | 550.6 | 0.861 | 5.595 | 1.53 | 0.254 | 64.1 | 356.0 | 1.4 | 0.219 |
| 4-4150 | 4-5530 | 0.490 | 163.4 | 5.0 | -0.77 | 1.300 | 110.5 | 0.736 | 3.236 | 311.0 | 551.2 | 0.855 | 6.618 | 1.51 | 0.257 | 62.9 | 356.3 | 1.4 | 0.222 |
| 4-4150 | 4-5550 | 0.498 | 164.3 | 4.8 | -0.72 | 1.300 | 111.0 | 0.738 | 3.245 | 310.0 | 551.7 | 0.849 | 5.641 | 1.48 | 0.259 | 61.6 | 356.7 | 1.3 | 0.226 |
| 4-4150 | 4-5570 | 0.506 | 165.2 | 4.6 | -0.68 | 1.301 | 111.5 | 0.741 | 3.254 | 308.9 | 552.2 | 0.842 | 5.666 | 1.46 | 0.261 | 60.5 | 357.2 | 1.3 | 0.229 |
| 4-4150 | 4-5590 | 0.514 | 166.1 | 4.3 | -0.63 | 1.301 | 112.0 | 0.744 | 3.263 | 307.8 | 552.6 | 0.835 | 5.692 | 1.44 | 0.264 | 59.3 | 357.7 | 1.3 | 0.233 |
| 4-4150 | 4-5610 | 0.523 | 167.0 | 4.1 | -0.59 | 1.301 | 112.5 | 0.747 | 3.273 | 306.6 | 553.1 | 0.828 | 5.718 | 1.42 | 0.267 | 58.2 | 358.2 | 1.3 | 0.236 |
| 4-4150 | 4-5630 | 0.532 | 167.9 | 3.9 | -0.54 | 1.302 | 113.1 | 0.750 | 3.283 | 305.5 | 553.5 | 0.821 | 5.745 | 1.41 | 0.269 | 57.1 | 358.9 | 1.3 | 0.240 |
| 4-4150 | 4-5650 | 0.541 | 168.8 | 3.6 | -0.50 | 1.302 | 113.6 | 0.753 | 3.293 | 304.3 | 553.9 | 0.813 | 5.773 | 1.39 | 0.272 | 56.0 | 359.5 | 1.3 | 0.244 |
| 4-4150 | 4-5670 | 0.550 | 169.7 | 3.4 | -0.46 | 1.302 | 114.2 | 0.756 | 3.303 | 303.1 | 554.3 | 0.805 | 5.802 | 1.38 | 0.274 | 55.0 | 0.3 | 1.3 | 0.248 |
| 4-4150 | 4-5690 | 0.560 | 170.5 | 3.1 | -0.42 | 1.303 | 114.7 | 0.760 | 3.314 | 301.8 | 554.7 | 0.797 | 5.831 | 1.37 | 0.277 | 54.0 | 1.0 | 1.3 | 0.252 |
| 4-4150 | 4-5710 | 0.569 | 171.4 | 2.9 | -0.38 | 1.303 | 115.3 | 0.763 | 3.325 | 300.6 | 555.1 | 0.788 | 5.861 | 1.35 | 0.280 | 53.0 | 1.8 | 1.3 | 0.256 |
| 4-4150 | 4-5730 | 0.579 | 172.3 | 2.6 | -0.34 | 1.303 | 115.9 | 0.766 | 3.336 | 299.3 | 555.4 | 0.779 | 5.892 | 1.34 | 0.282 | 52.1 | 2.7 | 1.3 | 0.260 |
| 4-4150 | 4-5750 | 0.590 | 173.1 | 2.3 | -0.30 | 1.304 | 116.5 | 0.770 | 3.347 | 298.0 | 555.7 | 0.770 | 5.923 | 1.34 | 0.285 | 51.1 | 3.6 | 1.3 | 0.264 |
| 4-4160 | 4-4520 | 0.636 | 160.5 | 14.9 | 2.74 | 1.511 | 108.5 | 1.254 | -3.574 | 326.8 | 479.8 | 0.907 | --- | -2.85 | 0.805 | 160.9 | 24.1 | 0.3 | 0.769 |
| 4-4160 | 4-4540 | 0.597 | 159.6 | 16.1 | 2.92 | 1.483 | 107.4 | 1.178 | -5.135 | 327.9 | 482.5 | 0.915 | --- | -3.00 | 0.750 | 159.7 | 24.5 | 0.2 | 0.715 |
| 4-4160 | 4-4560 | 0.563 | 158.8 | 17.3 | 3.12 | 1.459 | 106.3 | 1.114 | -8.102 | 329.1 | 485.2 | 0.923 | --- | -3.18 | 0.701 | 158.5 | 24.8 | 0.1 | 0.666 |
| 4-4160 | 4-4580 | 0.534 | 158.0 | 18.6 | 3.34 | 1.438 | 105.4 | 1.05 | 915.825 | 330.1 | 487.8 | 0.930 | --- | -3.39 | 0.656 | 157.2 | 25.0 | -0.1 | 0.621 |
| 4-4160 | 4-4600 | 0.509 | 157.3 | 20.0 | 3.59 | 1.420 | 104.5 | 1.01 | 182.240 | 331.2 | 490.3 | 0.936 | --- | -3.62 | 0.616 | 155.9 | 25.2 | -0.3 | 0.581 |
| 4-4160 | 4-4620 | 0.487 | 156.6 | 21.5 | 3.88 | 1.405 | 103.7 | 0.97 | 031.852 | 332.2 | 492.8 | 0.941 | --- | -3.89 | 0.579 | 154.4 | 25.4 | -0.5 | 0.545 |
| 4-4160 | 4-4640 | 0.469 | 156.1 | 23.1 | 4.21 | 1.391 | 103.0 | 0.93 | 514.539 | 333.1 | 495.3 | 0.946 | --- | -4.21 | 0.546 | 153.0 | 25.5 | -0.7 | 0.512 |
| 4-4160 | 4-4660 | 0.453 | 155.7 | 25.0 | 4.61 | 1.380 | 102.3 | 0.904 | 9.904 | 334.0 | 497.7 | 0.950 | --- | -4.59 | 0.516 | 151.4 | 25.6 | -1.0 | 0.481 |
| 4-4160 | 4-4680 | 0.441 | 155.5 | 27.0 | 5.08 | 1.370 | 101.8 | 0.877 | 7.764 | 334.8 | 500.0 | 0.953 | --- | -5.04 | 0.488 | 149.8 | 25.5 | -1.4 | 0.453 |
| 4-4160 | 4-4700 | 0.431 | 155.5 | 29.3 | 5.66 | 1.361 | 101.2 | 0.854 | 6.539 | 335.6 | 502.2 | 0.957 | --- | -5.60 | 0.463 | 148.1 | 25.4 | -1.9 | 0.428 |
| 4-4160 | 4-4720 | 0.424 | 155.9 | 32.0 | 6.38 | 1.353 | 100.8 | 0.833 | 5.750 | 336.2 | 504.4 | 0.959 | --- | -6.30 | 0.439 | 146.4 | 25.3 | -2.5 | 0.405 |
| 4-4160 | 4-4740 | 0.420 | 156.8 | 35.2 | 7.30 | 1.346 | 100.4 | 0.815 | 5.203 | 336.8 | 506.5 | 0.962 | --- | -7.21 | 0.418 | 144.6 | 25.0 | -3.3 | 0.383 |
| 4-4160 | 4-4760 | 0.421 | 158.5 | 39.1 | 8.53 | 1.340 | 100.0 | 0.799 | 4.803 | 337.4 | 508.6 | 0.964 | --- | -8.43 | 0.398 | 142.7 | 24.7 | -4.3 | 0.364 |
| 4-4160 | 4-4780 | 0.429 | 161.6 | 44.0 | 10.27 | 1.335 | 99.7 | 0.785 | 4.501 | 337.9 | 510.5 | 0.965 | --- | -10.14 | 0.380 | 140.7 | 24.2 | -5.8 | 0.347 |
| 4-4160 | 4-4800 | 0.451 | 167.3 | 50.2 | 12.87 | 1.330 | 99.4 | 0.773 | 4.266 | 338.3 | 512.5 | 0.967 | --- | -12.73 | 0.364 | 138.7 | 23.5 | -7.9 | 0.333 |
| 4-4160 | 4-4820 | 0.500 | 179.5 | 57.8 | 17.22 | 1.326 | 99.2 | 0.763 | 4.078 | 338.7 | 514.3 | 0.968 | --- | -17.06 | 0.349 | 136.6 | 22.5 | -11.4 | 0.324 |
| 4-4160 | 4-4840 | 0.624 | 209.0 | 64.3 | 25.75 | 1.323 | 99.0 | 0.753 | 3.927 | 339.1 | 516.1 | 0.969 | --- | -25.57 | 0.335 | 134.4 | 20.3 | -17.4 | 0.327 |
| 4-4160 | 4-4860 | 0.988 | 256.3 | 55.4 | 47.61 | 1.320 | 98.7 | 0.745 | 3.803 | 339.5 | 517.8 | 0.971 | --- | -47.41 | 0.322 | 132.2 | 13.5 | -26.9 | 0.380 |
| 4-4160 | 4-4880 | 1.444 | 284.5 | -84.0 | -75.62 | 1.317 | 99.3 | 0.739 | 3.700 | 338.1 | 519.5 | 0.967 | --- | 75.83 | 0.311 | 130.1 | 0.7 | 29.3 | 0.472 |
| 4-4160 | 4-4900 | 0.768 | 124.0 | -62.5 | -34.85 | 1.315 | 98.9 | 0.732 | 3.615 | 338.8 | 521.0 | 0.969 | --- | 35.07 | 0.300 | 127.7 | 13.0 | 25.9 | 0.321 |
| 4-4160 | 4-4920 | 0.539 | 128.1 | -43.1 | -20.83 | 1.312 | 98.8 | 0.726 | 3.543 | 339.0 | 522.6 | 0.970 | --- | 21.07 | 0.291 | 125.3 | 16.2 | 19.0 | 0.274 |
| 4-4160 | 4-4940 | 0.451 | 131.1 | -30.6 | -14.61 | 1.311 | 98.8 | 0.721 | 3.482 | 339.0 | 524.1 | 0.970 | --- | 14.87 | 0.282 | 122.9 | 16.6 | 14.8 | 0.253 |
| 4-4160 | 4-4960 | 0.409 | 133.3 | -22.0 | -11.18 | 1.309 | 98.8 | 0.717 | 3.430 | 339.0 | 525.5 | 0.970 | --- | 11.46 | 0.275 | 120.5 | 16.2 | 12.2 | 0.240 |
| 4-4160 | 4-4980 | 0.387 | 135.0 | -16.0 | -9.02 | 1.307 | 98.8 | 0.714 | 3.386 | 338.9 | 526.9 | 0.970 | --- | 9.31 | 0.268 | 118.0 | 15.4 | 10.4 | 0.230 |
| 4-4160 | 4-5000 | 0.373 | 136.4 | -11.6 | -7.53 | 1.306 | 98.8 | 0.711 | 3.349 | 338.7 | 528.2 | 0.969 | --- | 7.84 | 0.262 | 115.5 | 14.4 | 9.2 | 0.221 |
| 4-4160 | 4-5020 | 0.365 | 137.6 | -8.2 | -6.45 | 1.305 | 98.9 | 0.708 | 3.317 | 338.5 | 529.5 | 0.969 | --- | 6.78 | 0.257 | 113.1 | 13.4 | 8.2 | 0.214 |
| 4-4160 | 4-5040 | 0.360 | 138.7 | -5.6 | -5.62 | 1.304 | 99.0 | 0.706 | 3.291 | 338.2 | 530.7 | 0.968 | --- | 5.97 | 0.252 | 110.6 | 12.2 | 7.4 | 0.208 |
| 4-4160 | 4-5060 | 0.356 | 139.7 | -3.5 | -4.97 | 1.303 | 99.1 | 0.704 | 3.268 | 337.9 | 531.9 | 0.967 | --- | 5.33 | 0.248 | 108.1 | 11.0 | 6.8 | 0.203 |
| 4-4160 | 4-5080 | 0.354 | 140.7 | -1.8 | -4.44 | 1.303 | 99.3 | 0.703 | 3.249 | 337.5 | 533.0 | 0.966 | --- | 4.82 | 0.245 | 105.7 | 9.8 | 6.2 | 0.199 |
| 4-4160 | 4-5100 | 0.353 | 141.7 | -0.5 | -4.00 | 1.302 | 99.4 | 0.701 | 3.233 | 337.1 | 534.2 | 0.965 | --- | 4.40 | 0.242 | 103.3 | 8.6 | 5.8 | 0.196 |
| 4-4160 | 4-5120 | 0.353 | 142.7 | 0.6 | -3.64 | 1.302 | 99.6 | 0.701 | 3.220 | 336.7 | 535.2 | 0.964 | --- | 4.05 | 0.240 | 100.9 | 7.3 | 5.4 | 0.193 |
| 4-4160 | 4-5140 | 0.353 | 143.6 | 1.6 | -3.32 | 1.301 | 99.8 | 0.700 | 3.209 | 336.2 | 536.3 | 0.963 | --- | 3.76 | 0.238 | 98.6 | 6.1 | 5.0 | 0.191 |
| 4-4160 | 4-5160 | 0.354 | 144.6 | 2.3 | -3.05 | 1.301 | 100.0 | 0.700 | 3.200 | 335.7 | 537.3 | 0.961 | --- | 3.50 | 0.237 | 96.3 | 5.0 | 4.6 | 0.189 |
| 4-4160 | 4-5180 | 0.355 | 145.6 | 3.0 | -2.81 | 1.301 | 100.2 | 0.699 | 3.193 | 335.1 | 538.3 | 0.960 | --- | 3.28 | 0.236 | 94.1 | 3.9 | 4.3 | 0.187 |
| 4-4160 | 4-5200 | 0.357 | 146.6 | 3.5 | -2.60 | 1.300 | 100.4 | 0.700 | 3.188 | 334.5 | 539.2 | 0.958 | --- | 3.09 | 0.236 | 91.9 | 2.8 | 4.1 | 0.187 |
| 4-4160 | 4-5220 | 0.359 | 147.6 | 3.9 | -2.42 | 1.300 | 100.7 | 0.700 | 3.185 | 333.9 | 540.1 | 0.956 | 5.414 | 2.92 | 0.235 | 89.8 | 1.8 | 3.8 | 0.186 |
| 4-4160 | 4-5240 | 0.361 | 148.6 | 4.2 | -2.25 | 1.300 | 101.0 | 0.700 | 3.183 | 333.3 | 541.0 | 0.954 | 5.412 | 2.77 | 0.236 | 87.7 | 0.9 | 3.6 | 0.186 |
| 4-4160 | 4-5260 | 0.364 | 149.7 | 4.5 | -2.10 | 1.300 | 101.3 | 0.701 | 3.182 | 332.6 | 541.8 | 0.952 | 5.412 | 2.64 | 0.236 | 85.7 | 0.1 | 3.3 | 0.187 |
| 4-4160 | 4-5280 | 0.367 | 150.7 | 4.7 | -1.96 | 1.300 | 101.5 | 0.702 | 3.182 | 331.9 | 542.7 | 0.949 | 5.415 | 2.52 | 0.237 | 83.8 | 359.3 | 3.1 | 0.187 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4160 | 4-5300 | 0.370 | 151.8 | 4.9 | -1.83 | 1.300 | 101.9 | 0.703 | 3.184 | 331.1 | 543.5 | 0.947 | 5.421 | 2.41 | 0.238 | 81.9 | 358.6 | 2.9 | 0.188 |
| 4-4160 | 4-5320 | 0.374 | 152.8 | 5.0 | -1.72 | 1.300 | 102.2 | 0.704 | 3.186 | 330.4 | 544.2 | 0.944 | 5.428 | 2.31 | 0.239 | 80.1 | 358.1 | 2.8 | 0.190 |
| 4-4160 | 4-5340 | 0.378 | 153.9 | 5.0 | -1.61 | 1.300 | 102.5 | 0.705 | 3.189 | 329.6 | 545.0 | 0.941 | 5.437 | 2.22 | 0.240 | 78.4 | 357.6 | 2.6 | 0.191 |
| 4-4160 | 4-5360 | 0.382 | 155.0 | 5.0 | -1.51 | 1.301 | 102.9 | 0.706 | 3.193 | 328.8 | 545.7 | 0.938 | 5.448 | 2.14 | 0.241 | 76.7 | 357.2 | 2.5 | 0.193 |
| 4-4160 | 4-5380 | 0.387 | 156.0 | 5.0 | -1.41 | 1.301 | 103.2 | 0.708 | 3.197 | 327.9 | 546.4 | 0.935 | 5.460 | 2.07 | 0.243 | 75.0 | 356.9 | 2.3 | 0.195 |
| 4-4160 | 4-5400 | 0.391 | 157.1 | 5.0 | -1.33 | 1.301 | 103.6 | 0.709 | 3.203 | 327.0 | 547.1 | 0.931 | 5.474 | 2.00 | 0.245 | 73.5 | 356.6 | 2.2 | 0.197 |
| 4-4160 | 4-5420 | 0.396 | 158.2 | 4.9 | -1.25 | 1.301 | 104.0 | 0.711 | 3.208 | 326.2 | 547.8 | 0.927 | 5.489 | 1.94 | 0.247 | 72.0 | 356.5 | 2.1 | 0.200 |
| 4-4160 | 4-5440 | 0.402 | 159.2 | 4.8 | -1.17 | 1.301 | 104.4 | 0.713 | 3.215 | 325.2 | 548.4 | 0.924 | 5.506 | 1.88 | 0.249 | 70.5 | 356.4 | 2.0 | 0.202 |
| 4-4160 | 4-5460 | 0.407 | 160.3 | 4.7 | -1.09 | 1.302 | 104.8 | 0.715 | 3.221 | 324.3 | 549.0 | 0.920 | 5.523 | 1.83 | 0.251 | 69.1 | 356.4 | 1.9 | 0.205 |
| 4-4160 | 4-5480 | 0.413 | 161.4 | 4.5 | -1.03 | 1.302 | 105.2 | 0.717 | 3.229 | 323.3 | 549.6 | 0.915 | 5.542 | 1.78 | 0.253 | 67.8 | 356.5 | 1.8 | 0.207 |
| 4-4160 | 4-5500 | 0.419 | 162.5 | 4.3 | -0.96 | 1.302 | 105.6 | 0.719 | 3.236 | 322.3 | 550.2 | 0.911 | 5.562 | 1.74 | 0.255 | 66.5 | 356.7 | 1.8 | 0.210 |
| 4-4160 | 4-5520 | 0.425 | 163.5 | 4.2 | -0.90 | 1.302 | 106.1 | 0.721 | 3.244 | 321.3 | 550.8 | 0.906 | 5.583 | 1.70 | 0.258 | 65.2 | 356.9 | 1.7 | 0.213 |
| 4-4160 | 4-5540 | 0.432 | 164.6 | 4.0 | -0.84 | 1.303 | 106.5 | 0.723 | 3.253 | 320.3 | 551.3 | 0.901 | 5.605 | 1.66 | 0.260 | 64.0 | 357.2 | 1.6 | 0.216 |
| 4-4160 | 4-5560 | 0.439 | 165.6 | 3.7 | -0.78 | 1.303 | 107.0 | 0.725 | 3.262 | 319.2 | 551.9 | 0.896 | 5.627 | 1.62 | 0.262 | 62.8 | 357.6 | 1.6 | 0.220 |
| 4-4160 | 4-5580 | 0.446 | 166.7 | 3.5 | -0.72 | 1.303 | 107.5 | 0.728 | 3.271 | 318.2 | 552.4 | 0.891 | 5.651 | 1.59 | 0.265 | 61.7 | 358.0 | 1.6 | 0.223 |
| 4-4160 | 4-5600 | 0.453 | 167.7 | 3.3 | -0.67 | 1.304 | 108.0 | 0.730 | 3.280 | 317.1 | 552.9 | 0.885 | 5.675 | 1.56 | 0.267 | 60.6 | 358.5 | 1.5 | 0.226 |
| 4-4160 | 4-5620 | 0.461 | 168.8 | 3.0 | -0.62 | 1.304 | 108.5 | 0.733 | 3.290 | 316.0 | 553.3 | 0.879 | 5.701 | 1.53 | 0.270 | 59.5 | 359.1 | 1.5 | 0.230 |
| 4-4160 | 4-5640 | 0.469 | 169.8 | 2.8 | -0.57 | 1.304 | 109.0 | 0.735 | 3.300 | 314.8 | 553.8 | 0.873 | 5.726 | 1.50 | 0.272 | 58.5 | 359.7 | 1.5 | 0.233 |
| 4-4160 | 4-5660 | 0.477 | 170.8 | 2.5 | -0.52 | 1.305 | 109.5 | 0.738 | 3.310 | 313.7 | 554.2 | 0.867 | 5.753 | 1.48 | 0.275 | 57.5 | 0.3 | 1.5 | 0.237 |
| 4-4160 | 4-5680 | 0.485 | 171.8 | 2.2 | -0.47 | 1.305 | 110.0 | 0.741 | 3.320 | 312.5 | 554.7 | 0.860 | 5.781 | 1.46 | 0.278 | 56.5 | 1.0 | 1.5 | 0.240 |
| 4-4160 | 4-5700 | 0.494 | 172.8 | 1.9 | -0.43 | 1.306 | 110.6 | 0.744 | 3.331 | 311.3 | 555.1 | 0.853 | 5.809 | 1.44 | 0.280 | 55.5 | 1.8 | 1.5 | 0.244 |
| 4-4160 | 4-5720 | 0.503 | 173.8 | 1.7 | -0.38 | 1.306 | 111.1 | 0.747 | 3.342 | 310.1 | 555.5 | 0.846 | 5.837 | 1.42 | 0.283 | 54.6 | 2.6 | 1.5 | 0.248 |
| 4-4160 | 4-5740 | 0.512 | 174.8 | 1.4 | -0.34 | 1.306 | 111.7 | 0.750 | 3.352 | 308.8 | 555.8 | 0.838 | 5.867 | 1.40 | 0.285 | 53.7 | 3.4 | 1.5 | 0.251 |
| 4-4160 | 4-5760 | 0.521 | 175.8 | 1.1 | -0.30 | 1.307 | 112.3 | 0.753 | 3.364 | 307.6 | 556.2 | 0.830 | 5.897 | 1.38 | 0.288 | 52.8 | 4.3 | 1.5 | 0.255 |
| 4-4170 | 4-4510 | 0.617 | 160.9 | 13.4 | 2.03 | 1.541 | 104.9 | 1.341 | -2.745 | 334.0 | 476.4 | 0.937 | --- | -2.02 | 0.856 | 161.4 | 24.7 | 0.6 | 0.817 |
| 4-4170 | 4-4530 | 0.575 | 159.7 | 14.4 | 2.12 | 1.508 | 103.8 | 1.250 | -3.779 | 335.3 | 479.2 | 0.944 | --- | -2.10 | 0.795 | 160.3 | 25.1 | 0.6 | 0.757 |
| 4-4170 | 4-4550 | 0.539 | 158.4 | 15.5 | 2.22 | 1.481 | 102.7 | 1.173 | -5.502 | 336.5 | 481.9 | 0.950 | --- | -2.18 | 0.741 | 159.1 | 25.4 | 0.5 | 0.703 |
| 4-4170 | 4-4570 | 0.508 | 157.1 | 16.6 | 2.32 | 1.457 | 101.7 | 1.107 | -8.906 | 337.7 | 484.7 | 0.956 | --- | -2.26 | 0.693 | 157.9 | 25.7 | 0.4 | 0.655 |
| 4-4170 | 4-4590 | 0.482 | 155.8 | 17.8 | 2.44 | 1.437 | 100.8 | 1.052 | 18.649 | 338.9 | 487.4 | 0.961 | --- | -2.36 | 0.649 | 156.6 | 25.9 | 0.3 | 0.611 |
| 4-4170 | 4-4610 | 0.458 | 154.6 | 18.9 | 2.56 | 1.419 | 100.0 | 1.004 | 59.572 | 340.0 | 490.0 | 0.965 | --- | -2.47 | 0.609 | 155.2 | 26.1 | 0.2 | 0.572 |
| 4-4170 | 4-4630 | 0.439 | 153.4 | 20.1 | 2.70 | 1.404 | 99.3 | 0.963 | 25.929 | 341.1 | 492.6 | 0.969 | --- | -2.59 | 0.573 | 153.8 | 26.2 | 0.1 | 0.536 |
| 4-4170 | 4-4650 | 0.422 | 152.3 | 21.4 | 2.85 | 1.391 | 98.6 | 0.927 | 13.336 | 342.1 | 495.1 | 0.972 | --- | -2.72 | 0.540 | 152.3 | 26.3 | 0.0 | 0.503 |
| 4-4170 | 4-4670 | 0.407 | 151.2 | 22.7 | 3.01 | 1.380 | 98.0 | 0.896 | 9.402 | 343.0 | 497.5 | 0.974 | --- | -2.87 | 0.510 | 150.8 | 26.3 | -0.2 | 0.473 |
| 4-4170 | 4-4690 | 0.394 | 150.2 | 24.0 | 3.20 | 1.370 | 97.5 | 0.870 | 7.493 | 343.9 | 499.9 | 0.977 | --- | -3.04 | 0.483 | 149.1 | 26.3 | -0.3 | 0.446 |
| 4-4170 | 4-4710 | 0.384 | 149.4 | 25.3 | 3.41 | 1.361 | 97.0 | 0.846 | 6.371 | 344.7 | 502.2 | 0.979 | --- | -3.23 | 0.458 | 147.4 | 26.2 | -0.5 | 0.420 |
| 4-4170 | 4-4730 | 0.375 | 148.7 | 26.7 | 3.65 | 1.354 | 96.6 | 0.826 | 5.637 | 345.4 | 504.4 | 0.980 | --- | -3.45 | 0.435 | 145.7 | 26.0 | -0.8 | 0.397 |
| 4-4170 | 4-4750 | 0.368 | 148.1 | 28.2 | 3.92 | 1.347 | 96.2 | 0.808 | 5.123 | 346.0 | 506.6 | 0.982 | --- | -3.71 | 0.414 | 143.8 | 25.7 | -1.1 | 0.376 |
| 4-4170 | 4-4770 | 0.362 | 147.8 | 29.8 | 4.24 | 1.341 | 95.9 | 0.793 | 4.745 | 346.6 | 508.6 | 0.983 | --- | -4.01 | 0.395 | 141.9 | 25.4 | -1.4 | 0.356 |
| 4-4170 | 4-4790 | 0.357 | 147.6 | 31.6 | 4.61 | 1.336 | 95.7 | 0.779 | 4.457 | 347.1 | 510.6 | 0.984 | --- | -4.36 | 0.377 | 140.0 | 25.0 | -1.8 | 0.338 |
| 4-4170 | 4-4810 | 0.354 | 147.7 | 33.6 | 5.06 | 1.332 | 95.4 | 0.767 | 4.232 | 347.5 | 512.6 | 0.985 | --- | -4.79 | 0.361 | 137.9 | 24.6 | -2.3 | 0.322 |
| 4-4170 | 4-4830 | 0.353 | 148.1 | 35.8 | 5.60 | 1.328 | 95.2 | 0.757 | 4.053 | 347.8 | 514.4 | 0.985 | --- | -5.32 | 0.346 | 135.8 | 24.0 | -2.9 | 0.307 |
| 4-4170 | 4-4850 | 0.353 | 148.9 | 38.4 | 6.28 | 1.325 | 95.1 | 0.748 | 3.907 | 348.1 | 516.2 | 0.986 | --- | -5.98 | 0.333 | 133.7 | 23.4 | -3.7 | 0.293 |
| 4-4170 | 4-4870 | 0.357 | 150.2 | 41.4 | 7.15 | 1.321 | 94.9 | 0.740 | 3.788 | 348.4 | 517.9 | 0.986 | --- | -6.83 | 0.321 | 131.5 | 22.6 | -4.7 | 0.281 |
| 4-4170 | 4-4890 | 0.364 | 152.4 | 45.2 | 8.30 | 1.319 | 94.9 | 0.733 | 3.689 | 348.5 | 519.6 | 0.987 | --- | -7.97 | 0.309 | 129.2 | 21.8 | -5.9 | 0.270 |
| 4-4170 | 4-4910 | 0.377 | 156.0 | 50.0 | 9.92 | 1.316 | 94.8 | 0.726 | 3.607 | 348.6 | 521.2 | 0.987 | --- | -9.58 | 0.299 | 126.9 | 20.9 | -7.7 | 0.261 |
| 4-4170 | 4-4930 | 0.403 | 162.5 | 56.1 | 12.35 | 1.314 | 94.7 | 0.721 | 3.537 | 348.7 | 522.7 | 0.987 | --- | -11.98 | 0.290 | 124.5 | 19.8 | -10.2 | 0.254 |
| 4-4170 | 4-4950 | 0.455 | 176.3 | 63.6 | 16.36 | 1.313 | 94.7 | 0.716 | 3.479 | 348.7 | 524.2 | 0.987 | --- | -15.98 | 0.282 | 122.1 | 18.4 | -14.2 | 0.252 |
| 4-4170 | 4-4970 | 0.574 | 211.4 | 69.6 | 24.19 | 1.311 | 94.7 | 0.712 | 3.429 | 348.7 | 525.6 | 0.987 | --- | -23.80 | 0.275 | 119.7 | 16.2 | -20.7 | 0.263 |
| 4-4170 | 4-4990 | 0.918 | 264.4 | 59.9 | 44.24 | 1.310 | 94.7 | 0.709 | 3.387 | 348.8 | 527.0 | 0.987 | --- | -43.83 | 0.268 | 117.2 | 10.6 | -30.2 | 0.323 |
| 4-4170 | 4-5010 | 1.490 | 332.0 | -77.9 | -79.05 | 1.308 | 95.4 | 0.706 | 3.351 | 347.0 | 528.3 | 0.984 | --- | 79.48 | 0.262 | 114.9 | 358.3 | 30.8 | 0.457 |
| 4-4170 | 4-5030 | 0.753 | 111.7 | -64.5 | -34.83 | 1.307 | 95.2 | 0.703 | 3.320 | 347.4 | 529.6 | 0.985 | --- | 35.27 | 0.257 | 112.4 | 7.7 | 29.5 | 0.283 |
| 4-4170 | 4-5050 | 0.510 | 122.4 | -44.7 | -20.27 | 1.306 | 95.2 | 0.701 | 3.294 | 347.3 | 530.8 | 0.985 | --- | 20.73 | 0.253 | 110.0 | 10.2 | 21.8 | 0.233 |
| 4-4170 | 4-5070 | 0.419 | 127.3 | -31.6 | -14.01 | 1.306 | 95.3 | 0.699 | 3.273 | 347.1 | 532.0 | 0.985 | --- | 14.49 | 0.249 | 107.5 | 10.2 | 16.7 | 0.214 |
| 4-4170 | 4-5090 | 0.378 | 130.5 | -22.7 | -10.61 | 1.305 | 95.4 | 0.698 | 3.254 | 346.7 | 533.2 | 0.984 | --- | 11.10 | 0.246 | 105.2 | 9.5 | 13.5 | 0.205 |
| 4-4170 | 4-5110 | 0.356 | 132.9 | -16.3 | -8.48 | 1.304 | 95.6 | 0.696 | 3.239 | 346.3 | 534.3 | 0.983 | --- | 8.99 | 0.244 | 102.8 | 8.6 | 11.3 | 0.198 |
| 4-4170 | 4-5130 | 0.344 | 134.9 | -11.7 | -7.03 | 1.304 | 95.8 | 0.695 | 3.227 | 345.9 | 535.3 | 0.983 | --- | 7.56 | 0.242 | 100.5 | 7.5 | 9.7 | 0.194 |
| 4-4170 | 4-5150 | 0.337 | 136.7 | -8.2 | -5.97 | 1.304 | 96.0 | 0.695 | 3.216 | 345.4 | 536.4 | 0.982 | --- | 6.52 | 0.240 | 98.2 | 6.4 | 8.5 | 0.191 |
| 4-4170 | 4-5170 | 0.333 | 138.3 | -5.5 | -5.17 | 1.303 | 96.2 | 0.694 | 3.208 | 344.9 | 537.4 | 0.981 | --- | 5.73 | 0.239 | 95.9 | 5.4 | 7.5 | 0.188 |
| 4-4170 | 4-5190 | 0.330 | 139.9 | -3.4 | -4.54 | 1.303 | 96.4 | 0.694 | 3.202 | 344.4 | 538.3 | 0.980 | --- | 5.11 | 0.238 | 93.8 | 4.3 | 6.8 | 0.187 |
| 4-4170 | 4-5210 | 0.329 | 141.3 | -1.7 | -4.03 | 1.303 | 96.6 | 0.694 | 3.198 | 343.8 | 539.3 | 0.979 | --- | 4.62 | 0.238 | 91.6 | 3.3 | 6.1 | 0.186 |
| 4-4170 | 4-5230 | 0.329 | 142.7 | -0.4 | -3.61 | 1.303 | 96.9 | 0.694 | 3.195 | 343.2 | 540.2 | 0.977 | 5.412 | 4.22 | 0.238 | 89.6 | 2.4 | 5.6 | 0.185 |
| 4-4170 | 4-5250 | 0.329 | 144.1 | 0.6 | -3.25 | 1.303 | 97.2 | 0.694 | 3.193 | 342.5 | 541.1 | 0.976 | 5.410 | 3.88 | 0.238 | 87.6 | 1.5 | 5.1 | 0.185 |
| 4-4170 | 4-5270 | 0.330 | 145.5 | 1.5 | -2.95 | 1.303 | 97.4 | 0.695 | 3.193 | 341.8 | 541.9 | 0.975 | 5.411 | 3.59 | 0.239 | 85.6 | 0.7 | 4.7 | 0.185 |
| 4-4170 | 4-5290 | 0.332 | 146.8 | 2.2 | -2.69 | 1.303 | 97.7 | 0.695 | 3.193 | 341.1 | 542.7 | 0.973 | 5.414 | 3.35 | 0.239 | 83.8 | 360.0 | 4.3 | 0.185 |
| 4-4170 | 4-5310 | 0.334 | 148.2 | 2.7 | -2.46 | 1.303 | 98.0 | 0.696 | 3.195 | 340.4 | 543.6 | 0.971 | 5.419 | 3.14 | 0.240 | 82.0 | 359.3 | 4.0 | 0.186 |
| 4-4170 | 4-5330 | 0.336 | 149.5 | 3.1 | -2.26 | 1.303 | 98.4 | 0.697 | 3.198 | 339.6 | 544.3 | 0.969 | 5.426 | 2.95 | 0.241 | 80.2 | 358.8 | 3.7 | 0.187 |
| 4-4170 | 4-5350 | 0.338 | 150.9 | 3.5 | -2.08 | 1.303 | 98.7 | 0.698 | 3.201 | 338.8 | 545.1 | 0.967 | 5.435 | 2.79 | 0.243 | 78.5 | 358.3 | 3.4 | 0.189 |
| 4-4170 | 4-5370 | 0.341 | 152.2 | 3.7 | -1.92 | 1.303 | 99.0 | 0.699 | 3.205 | 338.0 | 545.8 | 0.965 | 5.445 | 2.65 | 0.244 | 76.9 | 357.9 | 3.2 | 0.190 |
| 4-4170 | 4-5390 | 0.345 | 153.6 | 3.8 | -1.77 | 1.303 | 99.4 | 0.700 | 3.210 | 337.2 | 546.5 | 0.963 | 5.457 | 2.52 | 0.246 | 75.4 | 357.6 | 3.0 | 0.192 |
| 4-4170 | 4-5410 | 0.348 | 154.9 | 3.9 | -1.64 | 1.304 | 99.7 | 0.701 | 3.215 | 336.3 | 547.2 | 0.960 | 5.470 | 2.40 | 0.248 | 73.8 | 357.4 | 2.8 | 0.194 |
| 4-4170 | 4-5430 | 0.352 | 156.2 | 4.0 | -1.51 | 1.304 | 100.1 | 0.703 | 3.221 | 335.4 | 547.9 | 0.958 | 5.485 | 2.30 | 0.250 | 72.4 | 357.2 | 2.6 | 0.196 |
| 4-4170 | 4-5450 | 0.356 | 157.5 | 4.0 | -1.40 | 1.304 | 100.5 | 0.704 | 3.228 | 334.5 | 548.5 | 0.955 | 5.501 | 2.21 | 0.252 | 71.0 | 357.2 | 2.5 | 0.199 |
| 4-4170 | 4-5470 | 0.360 | 158.9 | 3.9 | -1.30 | 1.304 | 100.9 | 0.706 | 3.235 | 333.6 | 549.2 | 0.952 | 5.518 | 2.12 | 0.254 | 69.7 | 357.2 | 2.4 | 0.201 |
| 4-4170 | 4-5490 | 0.365 | 160.2 | 3.8 | -1.20 | 1.305 | 101.3 | 0.707 | 3.242 | 332.6 | 549.8 | 0.949 | 5.536 | 2.04 | 0.256 | 68.4 | 357.3 | 2.2 | 0.204 |
| 4-4170 | 4-5510 | 0.370 | 161.5 | 3.7 | -1.11 | 1.305 | 101.7 | 0.709 | 3.250 | 331.6 | 550.4 | 0.945 | 5.555 | 1.97 | 0.258 | 67.1 | 357.5 | 2.1 | 0.206 |
| 4-4170 | 4-5530 | 0.375 | 162.8 | 3.5 | -1.03 | 1.305 | 102.2 | 0.711 | 3.259 | 330.6 | 550.9 | 0.942 | 5.575 | 1.91 | 0.261 | 65.9 | 357.7 | 2.1 | 0.209 |
| 4-4170 | 4-5550 | 0.381 | 164.1 | 3.3 | -0.95 | 1.305 | 102.6 | 0.713 | 3.267 | 329.6 | 551.5 | 0.938 | 5.596 | 1.85 | 0.263 | 64.7 | 358.0 | 2.0 | 0.212 |
| 4-4170 | 4-5570 | 0.386 | 165.3 | 3.1 | -0.88 | 1.305 | 103.0 | 0.715 | 3.276 | 328.6 | 552.0 | 0.934 | 5.618 | 1.79 | 0.265 | 63.6 | 358.4 | 1.9 | 0.215 |
| 4-4170 | 4-5590 | 0.392 | 166.6 | 2.9 | -0.81 | 1.306 | 103.5 | 0.717 | 3.285 | 327.5 | 552.6 | 0.930 | 5.641 | 1.74 | 0.268 | 62.5 | 358.8 | 1.8 | 0.218 |
| 4-4170 | 4-5610 | 0.399 | 167.8 | 2.7 | -0.74 | 1.306 | 104.0 | 0.719 | 3.295 | 326.4 | 553.1 | 0.926 | 5.664 | 1.70 | 0.270 | 61.5 | 359.3 | 1.8 | 0.221 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4170 | 4-5630 | 0.405 | 169.1 | 2.4 | -0.68 | 1.307 | 104.4 | 0.721 | 3.305 | 325.3 | 553.6 | 0.921 | 5.688 | 1.65 | 0.273 | 60.5 | 359.8 | 1.7 | 0.224 |
| 4-4170 | 4-5650 | 0.412 | 170.3 | 2.1 | -0.62 | 1.307 | 104.9 | 0.724 | 3.315 | 324.2 | 554.1 | 0.916 | 5.713 | 1.61 | 0.275 | 59.5 | 0.4 | 1.7 | 0.228 |
| 4-4170 | 4-5670 | 0.419 | 171.5 | 1.8 | -0.56 | 1.307 | 105.4 | 0.726 | 3.325 | 323.1 | 554.5 | 0.911 | 5.739 | 1.58 | 0.278 | 58.5 | 1.1 | 1.7 | 0.231 |
| 4-4170 | 4-5690 | 0.426 | 172.7 | 1.5 | -0.50 | 1.308 | 105.9 | 0.728 | 3.335 | 321.9 | 555.0 | 0.906 | 5.765 | 1.54 | 0.280 | 57.6 | 1.8 | 1.7 | 0.234 |
| 4-4170 | 4-5710 | 0.434 | 173.9 | 1.2 | -0.45 | 1.308 | 106.5 | 0.731 | 3.346 | 320.7 | 555.4 | 0.900 | 5.792 | 1.51 | 0.283 | 56.7 | 2.5 | 1.6 | 0.238 |
| 4-4170 | 4-5730 | 0.442 | 175.1 | 0.9 | -0.40 | 1.309 | 107.0 | 0.734 | 3.357 | 319.5 | 555.8 | 0.894 | 5.820 | 1.48 | 0.286 | 55.8 | 3.3 | 1.6 | 0.241 |
| 4-4170 | 4-5750 | 0.450 | 176.3 | 0.6 | -0.35 | 1.309 | 107.5 | 0.736 | 3.368 | 318.3 | 556.2 | 0.888 | 5.848 | 1.46 | 0.288 | 55.0 | 4.1 | 1.6 | 0.245 |
| 4-4170 | 4-5770 | 0.458 | 177.4 | 0.2 | -0.30 | 1.309 | 108.1 | 0.739 | 3.379 | 317.1 | 556.6 | 0.882 | 5.877 | 1.43 | 0.291 | 54.1 | 5.0 | 1.6 | 0.248 |
| 4-4180 | 4-4500 | 0.608 | 160.2 | 12.9 | 1.65 | 1.573 | 100.9 | 1.441 | -2.181 | 341.6 | 473.2 | 0.962 | --- | -1.53 | 0.909 | 161.9 | 25.2 | 0.8 | 0.867 |
| 4-4180 | 4-4520 | 0.563 | 158.5 | 14.0 | 1.70 | 1.535 | 99.8 | 1.330 | -2.928 | 342.9 | 476.1 | 0.967 | --- | -1.57 | 0.842 | 160.9 | 25.5 | 0.8 | 0.801 |
| 4-4180 | 4-4540 | 0.525 | 156.8 | 15.1 | 1.76 | 1.504 | 98.7 | 1.238 | -4.079 | 344.3 | 479.0 | 0.972 | --- | -1.61 | 0.783 | 159.7 | 25.9 | 0.8 | 0.742 |
| 4-4180 | 4-4560 | 0.493 | 155.0 | 16.2 | 1.82 | 1.477 | 97.7 | 1.161 | -6.063 | 345.6 | 481.8 | 0.976 | --- | -1.65 | 0.730 | 158.5 | 26.1 | 0.7 | 0.689 |
| 4-4180 | 4-4580 | 0.465 | 153.3 | 17.3 | 1.89 | 1.454 | 96.8 | 1.096 | 10.237 | 346.9 | 484.7 | 0.979 | --- | -1.70 | 0.682 | 157.3 | 26.4 | 0.7 | 0.642 |
| 4-4180 | 4-4600 | 0.442 | 151.5 | 18.4 | 1.96 | 1.434 | 96.0 | 1.040 | 24.437 | 348.2 | 487.4 | 0.982 | --- | -1.75 | 0.639 | 156.0 | 26.6 | 0.6 | 0.599 |
| 4-4180 | 4-4620 | 0.422 | 149.8 | 19.6 | 2.03 | 1.417 | 95.3 | 0.993 | 38.700 | 349.4 | 490.1 | 0.984 | --- | -1.80 | 0.600 | 154.6 | 26.7 | 0.6 | 0.561 |
| 4-4180 | 4-4640 | 0.405 | 148.1 | 20.7 | 2.11 | 1.403 | 94.6 | 0.952 | 20.695 | 350.5 | 492.8 | 0.986 | --- | -1.87 | 0.565 | 153.2 | 26.8 | 0.5 | 0.526 |
| 4-4180 | 4-4660 | 0.390 | 146.5 | 21.7 | 2.19 | 1.390 | 94.0 | 0.918 | 11.966 | 351.6 | 495.3 | 0.987 | --- | -1.93 | 0.532 | 151.7 | 26.8 | 0.4 | 0.493 |
| 4-4180 | 4-4680 | 0.378 | 145.0 | 22.8 | 2.28 | 1.379 | 93.5 | 0.887 | 8.778 | 352.6 | 497.8 | 0.988 | --- | -2.01 | 0.503 | 150.1 | 26.8 | 0.3 | 0.464 |
| 4-4180 | 4-4700 | 0.368 | 143.6 | 23.8 | 2.38 | 1.370 | 93.0 | 0.861 | 7.136 | 353.5 | 500.3 | 0.989 | --- | -2.09 | 0.476 | 148.5 | 26.7 | 0.2 | 0.437 |
| 4-4180 | 4-4720 | 0.359 | 142.3 | 24.8 | 2.48 | 1.361 | 92.6 | 0.839 | 6.140 | 354.3 | 502.6 | 0.990 | --- | -2.17 | 0.452 | 146.8 | 26.6 | 0.1 | 0.412 |
| 4-4180 | 4-4740 | 0.351 | 141.1 | 25.8 | 2.60 | 1.354 | 92.2 | 0.819 | 5.476 | 355.0 | 504.8 | 0.991 | --- | -2.27 | 0.429 | 145.0 | 26.4 | -0.1 | 0.390 |
| 4-4180 | 4-4760 | 0.345 | 140.1 | 26.8 | 2.72 | 1.348 | 91.9 | 0.802 | 5.004 | 355.7 | 507.0 | 0.991 | --- | -2.38 | 0.408 | 143.1 | 26.1 | -0.2 | 0.369 |
| 4-4180 | 4-4780 | 0.340 | 139.2 | 27.7 | 2.86 | 1.342 | 91.7 | 0.787 | 4.655 | 356.3 | 509.1 | 0.991 | --- | -2.50 | 0.390 | 141.2 | 25.7 | -0.4 | 0.350 |
| 4-4180 | 4-4800 | 0.335 | 138.5 | 28.7 | 3.01 | 1.337 | 91.4 | 0.774 | 4.386 | 356.8 | 511.1 | 0.992 | --- | -2.64 | 0.372 | 139.2 | 25.3 | -0.6 | 0.332 |
| 4-4180 | 4-4820 | 0.331 | 138.0 | 29.7 | 3.18 | 1.333 | 91.2 | 0.762 | 4.176 | 357.2 | 513.0 | 0.992 | --- | -2.79 | 0.357 | 137.2 | 24.8 | -0.9 | 0.316 |
| 4-4180 | 4-4840 | 0.328 | 137.6 | 30.7 | 3.37 | 1.329 | 91.1 | 0.752 | 4.007 | 357.5 | 514.9 | 0.992 | --- | -2.97 | 0.342 | 135.1 | 24.2 | -1.1 | 0.301 |
| 4-4180 | 4-4860 | 0.326 | 137.4 | 31.8 | 3.59 | 1.326 | 90.9 | 0.744 | 3.870 | 357.8 | 516.7 | 0.992 | --- | -3.17 | 0.329 | 132.9 | 23.5 | -1.4 | 0.287 |
| 4-4180 | 4-4880 | 0.324 | 137.3 | 33.0 | 3.84 | 1.323 | 90.8 | 0.736 | 3.757 | 358.0 | 518.4 | 0.992 | --- | -3.40 | 0.317 | 130.7 | 22.8 | -1.8 | 0.274 |
| 4-4180 | 4-4900 | 0.323 | 137.5 | 34.2 | 4.13 | 1.320 | 90.8 | 0.729 | 3.664 | 358.1 | 520.0 | 0.992 | --- | -3.68 | 0.306 | 128.4 | 22.0 | -2.2 | 0.263 |
| 4-4180 | 4-4920 | 0.323 | 137.9 | 35.6 | 4.47 | 1.318 | 90.7 | 0.723 | 3.586 | 358.2 | 521.6 | 0.992 | --- | -4.00 | 0.297 | 126.0 | 21.1 | -2.7 | 0.253 |
| 4-4180 | 4-4940 | 0.323 | 138.5 | 37.3 | 4.87 | 1.316 | 90.7 | 0.718 | 3.520 | 358.2 | 523.1 | 0.992 | --- | -4.39 | 0.288 | 123.7 | 20.2 | -3.3 | 0.243 |
| 4-4180 | 4-4960 | 0.325 | 139.4 | 39.1 | 5.36 | 1.314 | 90.8 | 0.714 | 3.464 | 358.2 | 524.6 | 0.992 | --- | -4.87 | 0.280 | 121.3 | 19.1 | -4.0 | 0.235 |
| 4-4180 | 4-4980 | 0.328 | 140.6 | 41.4 | 5.98 | 1.313 | 90.8 | 0.710 | 3.417 | 358.1 | 526.0 | 0.992 | --- | -5.46 | 0.273 | 118.9 | 18.1 | -4.8 | 0.227 |
| 4-4180 | 4-5000 | 0.332 | 142.4 | 44.1 | 6.76 | 1.311 | 90.9 | 0.706 | 3.377 | 357.9 | 527.4 | 0.992 | --- | -6.23 | 0.267 | 116.4 | 16.9 | -5.9 | 0.221 |
| 4-4180 | 4-5020 | 0.340 | 144.8 | 47.6 | 7.81 | 1.310 | 90.9 | 0.703 | 3.343 | 357.7 | 528.7 | 0.992 | --- | -7.26 | 0.261 | 114.0 | 15.8 | -7.2 | 0.216 |
| 4-4180 | 4-5040 | 0.354 | 148.5 | 52.0 | 9.26 | 1.309 | 91.0 | 0.701 | 3.315 | 357.5 | 529.9 | 0.992 | --- | -8.70 | 0.257 | 111.6 | 14.6 | -9.1 | 0.212 |
| 4-4180 | 4-5060 | 0.378 | 154.7 | 57.9 | 11.44 | 1.308 | 91.1 | 0.699 | 3.290 | 357.2 | 531.2 | 0.992 | --- | -10.86 | 0.253 | 109.1 | 13.3 | -11.7 | 0.210 |
| 4-4180 | 4-5080 | 0.424 | 167.3 | 65.5 | 15.02 | 1.308 | 91.3 | 0.697 | 3.270 | 356.9 | 532.3 | 0.992 | --- | -14.43 | 0.249 | 106.7 | 11.9 | -15.6 | 0.213 |
| 4-4180 | 4-5100 | 0.530 | 202.5 | 73.2 | 21.96 | 1.307 | 91.4 | 0.695 | 3.253 | 356.6 | 533.5 | 0.992 | --- | -21.36 | 0.246 | 104.4 | 10.3 | -22.1 | 0.226 |
| 4-4180 | 4-5120 | 0.837 | 268.1 | 65.5 | 39.84 | 1.307 | 91.5 | 0.694 | 3.239 | 356.4 | 534.6 | 0.991 | --- | -39.22 | 0.244 | 102.0 | 7.4 | -31.6 | 0.285 |
| 4-4180 | 4-5140 | 1.551 | 347.5 | -70.4 | -83.13 | 1.306 | 92.3 | 0.693 | 3.227 | 354.4 | 536.6 | 0.990 | --- | 83.77 | 0.242 | 99.8 | 358.3 | 30.8 | 0.462 |
| 4-4180 | 4-5160 | 0.735 | 102.9 | -63.2 | -34.03 | 1.306 | 92.2 | 0.692 | 3.218 | 354.6 | 536.6 | 0.990 | --- | 34.68 | 0.241 | 97.5 | 2.9 | 31.0 | 0.265 |
| 4-4180 | 4-5180 | 0.484 | 119.2 | -43.3 | -19.11 | 1.305 | 92.4 | 0.692 | 3.211 | 354.2 | 537.6 | 0.990 | --- | 19.77 | 0.240 | 95.3 | 4.0 | 22.4 | 0.214 |
| 4-4180 | 4-5200 | 0.396 | 125.6 | -30.0 | -12.97 | 1.305 | 92.6 | 0.691 | 3.206 | 353.7 | 538.6 | 0.990 | --- | 13.65 | 0.239 | 93.2 | 3.7 | 16.7 | 0.198 |
| 4-4180 | 4-5220 | 0.357 | 129.6 | -21.0 | -9.70 | 1.305 | 92.8 | 0.691 | 3.202 | 353.2 | 539.5 | 0.989 | --- | 10.39 | 0.239 | 91.1 | 3.1 | 13.2 | 0.191 |
| 4-4180 | 4-5240 | 0.337 | 132.7 | -14.7 | -7.67 | 1.305 | 93.0 | 0.691 | 3.200 | 352.5 | 540.4 | 0.989 | 5.410 | 8.38 | 0.239 | 89.1 | 2.3 | 10.8 | 0.188 |
| 4-4180 | 4-5260 | 0.327 | 135.2 | -10.1 | -6.30 | 1.305 | 93.3 | 0.691 | 3.199 | 351.9 | 541.3 | 0.988 | 5.409 | 7.02 | 0.239 | 87.2 | 1.6 | 9.1 | 0.186 |
| 4-4180 | 4-5280 | 0.320 | 137.4 | -6.8 | -5.30 | 1.305 | 93.6 | 0.691 | 3.199 | 351.2 | 542.1 | 0.988 | 5.410 | 6.04 | 0.240 | 85.3 | 0.9 | 7.9 | 0.186 |
| 4-4180 | 4-5300 | 0.317 | 139.4 | -4.3 | -4.55 | 1.305 | 93.9 | 0.692 | 3.200 | 350.5 | 542.9 | 0.987 | 5.413 | 5.31 | 0.241 | 83.5 | 0.2 | 6.9 | 0.186 |
| 4-4180 | 4-5320 | 0.315 | 141.3 | -2.3 | -3.96 | 1.305 | 94.2 | 0.692 | 3.202 | 349.7 | 543.7 | 0.986 | 5.418 | 4.73 | 0.242 | 81.7 | 359.6 | 6.1 | 0.186 |
| 4-4180 | 4-5340 | 0.314 | 143.2 | -0.8 | -3.48 | 1.305 | 94.5 | 0.693 | 3.205 | 349.0 | 544.5 | 0.985 | 5.425 | 4.27 | 0.243 | 80.0 | 359.1 | 5.4 | 0.187 |
| 4-4180 | 4-5360 | 0.314 | 145.0 | 0.3 | -3.09 | 1.305 | 94.8 | 0.693 | 3.209 | 348.2 | 545.3 | 0.984 | 5.434 | 3.89 | 0.245 | 78.4 | 358.7 | 4.9 | 0.188 |
| 4-4180 | 4-5380 | 0.315 | 146.7 | 1.2 | -2.76 | 1.306 | 95.2 | 0.694 | 3.214 | 347.4 | 546.0 | 0.982 | 5.445 | 3.58 | 0.246 | 76.8 | 358.3 | 4.5 | 0.189 |
| 4-4180 | 4-5400 | 0.316 | 148.4 | 1.9 | -2.48 | 1.306 | 95.5 | 0.695 | 3.219 | 346.5 | 546.7 | 0.981 | 5.456 | 3.31 | 0.248 | 75.3 | 358.1 | 4.1 | 0.191 |
| 4-4180 | 4-5420 | 0.318 | 150.1 | 2.4 | -2.23 | 1.306 | 95.9 | 0.696 | 3.225 | 345.7 | 547.4 | 0.980 | 5.470 | 3.09 | 0.250 | 73.9 | 357.9 | 3.7 | 0.193 |
| 4-4180 | 4-5440 | 0.320 | 151.7 | 2.8 | -2.02 | 1.306 | 96.3 | 0.697 | 3.231 | 344.8 | 548.0 | 0.978 | 5.484 | 2.89 | 0.252 | 72.5 | 357.8 | 3.5 | 0.195 |
| 4-4180 | 4-5460 | 0.322 | 153.4 | 3.1 | -1.83 | 1.306 | 96.6 | 0.699 | 3.238 | 343.9 | 548.7 | 0.976 | 5.500 | 2.72 | 0.254 | 71.2 | 357.8 | 3.2 | 0.197 |
| 4-4180 | 4-5480 | 0.325 | 155.0 | 3.2 | -1.67 | 1.307 | 97.0 | 0.700 | 3.245 | 342.9 | 549.3 | 0.974 | 5.516 | 2.57 | 0.256 | 69.9 | 357.8 | 3.0 | 0.199 |
| 4-4180 | 4-5500 | 0.328 | 156.6 | 3.3 | -1.52 | 1.307 | 97.4 | 0.701 | 3.253 | 342.0 | 549.9 | 0.972 | 5.534 | 2.43 | 0.258 | 68.6 | 357.9 | 2.8 | 0.201 |
| 4-4180 | 4-5520 | 0.332 | 158.2 | 3.3 | -1.38 | 1.307 | 97.8 | 0.703 | 3.261 | 341.0 | 550.5 | 0.970 | 5.552 | 2.32 | 0.261 | 67.4 | 358.1 | 2.6 | 0.204 |
| 4-4180 | 4-5540 | 0.335 | 159.8 | 3.3 | -1.26 | 1.308 | 98.2 | 0.704 | 3.270 | 340.0 | 551.1 | 0.968 | 5.572 | 2.21 | 0.263 | 66.3 | 358.3 | 2.5 | 0.207 |
| 4-4180 | 4-5560 | 0.339 | 161.4 | 3.2 | -1.15 | 1.308 | 98.7 | 0.706 | 3.279 | 339.0 | 551.7 | 0.965 | 5.592 | 2.11 | 0.265 | 65.2 | 358.7 | 2.4 | 0.209 |
| 4-4180 | 4-5580 | 0.344 | 163.0 | 3.0 | -1.04 | 1.308 | 99.1 | 0.707 | 3.288 | 338.0 | 552.2 | 0.962 | 5.613 | 2.03 | 0.268 | 64.1 | 359.0 | 2.3 | 0.212 |
| 4-4180 | 4-5600 | 0.348 | 164.5 | 2.8 | -0.95 | 1.309 | 99.6 | 0.709 | 3.297 | 336.9 | 552.8 | 0.959 | 5.635 | 1.95 | 0.270 | 63.0 | 359.5 | 2.2 | 0.215 |
| 4-4180 | 4-5620 | 0.353 | 166.0 | 2.6 | -0.86 | 1.309 | 100.0 | 0.711 | 3.307 | 335.8 | 553.3 | 0.956 | 5.658 | 1.88 | 0.273 | 62.0 | 360.0 | 2.1 | 0.218 |
| 4-4180 | 4-5640 | 0.358 | 167.6 | 2.3 | -0.77 | 1.309 | 100.5 | 0.713 | 3.317 | 334.7 | 553.8 | 0.953 | 5.681 | 1.81 | 0.275 | 61.1 | 0.5 | 2.0 | 0.221 |
| 4-4180 | 4-5660 | 0.364 | 169.0 | 2.0 | -0.70 | 1.310 | 101.0 | 0.715 | 3.327 | 333.6 | 554.3 | 0.949 | 5.705 | 1.75 | 0.278 | 60.1 | 1.1 | 1.9 | 0.224 |
| 4-4180 | 4-5680 | 0.369 | 170.5 | 1.7 | -0.62 | 1.310 | 101.4 | 0.717 | 3.338 | 332.5 | 554.8 | 0.945 | 5.730 | 1.70 | 0.280 | 59.2 | 1.7 | 1.9 | 0.227 |
| 4-4180 | 4-5700 | 0.375 | 172.0 | 1.4 | -0.55 | 1.310 | 101.9 | 0.719 | 3.348 | 331.3 | 555.2 | 0.941 | 5.755 | 1.65 | 0.283 | 58.4 | 2.4 | 1.9 | 0.230 |
| 4-4180 | 4-5720 | 0.382 | 173.4 | 1.1 | -0.49 | 1.311 | 102.4 | 0.721 | 3.359 | 330.2 | 555.7 | 0.937 | 5.781 | 1.60 | 0.285 | 57.5 | 3.2 | 1.8 | 0.233 |
| 4-4180 | 4-5740 | 0.388 | 174.8 | 0.7 | -0.43 | 1.311 | 103.0 | 0.723 | 3.370 | 329.0 | 556.1 | 0.933 | 5.808 | 1.56 | 0.288 | 56.7 | 3.9 | 1.8 | 0.236 |
| 4-4180 | 4-5760 | 0.395 | 176.2 | 0.3 | -0.37 | 1.311 | 103.5 | 0.726 | 3.382 | 327.8 | 556.5 | 0.928 | 5.835 | 1.52 | 0.291 | 55.9 | 4.8 | 1.8 | 0.240 |
| 4-4180 | 4-5780 | 0.402 | 177.6 | -0.0 | -0.31 | 1.312 | 104.0 | 0.728 | 3.393 | 326.6 | 556.9 | 0.923 | 5.863 | 1.48 | 0.293 | 55.1 | 5.6 | 1.8 | 0.243 |
| 4-4190 | 4-4490 | 0.611 | 158.1 | 13.2 | 1.43 | 1.608 | 96.4 | 1.553 | -1.773 | 349.5 | 470.3 | 0.980 | --- | -1.18 | 0.966 | 162.4 | 25.5 | 0.9 | 0.921 |
| 4-4190 | 4-4510 | 0.564 | 156.0 | 14.3 | 1.47 | 1.564 | 95.3 | 1.419 | -2.344 | 351.0 | 473.4 | 0.983 | --- | -1.20 | 0.891 | 161.4 | 25.9 | 0.9 | 0.848 |
| 4-4190 | 4-4530 | 0.524 | 153.8 | 15.5 | 1.50 | 1.528 | 94.3 | 1.309 | -3.183 | 352.5 | 476.4 | 0.985 | --- | -1.22 | 0.826 | 160.4 | 26.2 | 0.9 | 0.783 |
| 4-4190 | 4-4550 | 0.491 | 151.6 | 16.7 | 1.54 | 1.497 | 93.3 | 1.219 | -4.513 | 353.9 | 479.4 | 0.987 | --- | -1.24 | 0.768 | 159.2 | 26.4 | 0.9 | 0.726 |
| 4-4190 | 4-4570 | 0.464 | 149.3 | 17.8 | 1.58 | 1.471 | 92.5 | 1.143 | -6.922 | 355.4 | 482.3 | 0.988 | --- | -1.27 | 0.716 | 158.1 | 26.7 | 0.9 | 0.674 |
| 4-4190 | 4-4590 | 0.441 | 147.1 | 19.0 | 1.63 | 1.449 | 91.7 | 1.079 | 12.530 | 356.8 | 485.2 | 0.989 | --- | -1.29 | 0.669 | 156.8 | 26.8 | 0.8 | 0.628 |
| 4-4190 | 4-4610 | 0.422 | 144.8 | 20.0 | 1.67 | 1.430 | 91.0 | 1.025 | 39.623 | 358.1 | 488.1 | 0.990 | --- | -1.32 | 0.627 | 155.5 | 27.0 | 0.8 | 0.587 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4190 | 4-4630 | 0.406 | 142.7 | 21.1 | 1.72 | 1.414 | 90.3 | 0.97947 | 7.532 | 359.4 | 490.8 | 0.990 | --- | -1.35 | 0.588 | 154.1 | 27.1 | 0.8 | 0.549 |
| 4-4190 | 4-4650 | 0.392 | 140.6 | 22.0 | 1.77 | 1.400 | 89.7 | 0.94016 | 6.509 | 0.6 | 133.5 | --- | --- | -1.39 | 0.554 | 152.7 | 27.1 | 0.7 | 0.514 |
| 4-4190 | 4-4670 | 0.381 | 138.7 | 22.9 | 1.82 | 1.388 | 89.2 | 0.90710 | 5.588 | 1.7 | 136.2 | --- | --- | -1.42 | 0.522 | 151.1 | 27.1 | 0.7 | 0.483 |
| 4-4190 | 4-4690 | 0.371 | 136.9 | 23.8 | 1.87 | 1.377 | 88.8 | 0.878 | 8.090 | 2.7 | 138.7 | --- | --- | -1.46 | 0.493 | 149.5 | 27.0 | 0.6 | 0.454 |
| 4-4190 | 4-4710 | 0.363 | 135.3 | 24.6 | 1.93 | 1.368 | 88.3 | 0.853 | 6.721 | 3.6 | 141.1 | --- | --- | -1.50 | 0.467 | 147.9 | 26.9 | 0.5 | 0.428 |
| 4-4190 | 4-4730 | 0.357 | 133.8 | 25.3 | 1.99 | 1.360 | 88.0 | 0.831 | 5.862 | 4.4 | 143.5 | --- | --- | -1.55 | 0.443 | 146.1 | 26.7 | 0.4 | 0.404 |
| 4-4190 | 4-4750 | 0.351 | 132.4 | 26.0 | 2.05 | 1.353 | 87.7 | 0.813 | 5.276 | 5.2 | 145.7 | --- | --- | -1.60 | 0.421 | 144.3 | 26.4 | 0.3 | 0.382 |
| 4-4190 | 4-4770 | 0.346 | 131.3 | 26.6 | 2.12 | 1.347 | 87.4 | 0.797 | 4.853 | 5.8 | 147.9 | --- | --- | -1.65 | 0.401 | 142.5 | 26.1 | 0.2 | 0.361 |
| 4-4190 | 4-4790 | 0.342 | 130.3 | 27.2 | 2.20 | 1.342 | 87.2 | 0.782 | 4.537 | 6.4 | 150.0 | --- | --- | -1.71 | 0.382 | 140.5 | 25.7 | 0.1 | 0.343 |
| 4-4190 | 4-4810 | 0.339 | 129.4 | 27.8 | 2.27 | 1.337 | 87.0 | 0.770 | 4.292 | 6.9 | 152.0 | --- | --- | -1.77 | 0.366 | 138.5 | 25.2 | -0.0 | 0.325 |
| 4-4190 | 4-4830 | 0.336 | 128.7 | 28.4 | 2.36 | 1.333 | 86.8 | 0.759 | 4.099 | 7.3 | 153.9 | --- | --- | -1.84 | 0.350 | 136.4 | 24.6 | -0.2 | 0.310 |
| 4-4190 | 4-4850 | 0.333 | 128.2 | 28.9 | 2.45 | 1.329 | 86.7 | 0.750 | 3.943 | 7.6 | 155.7 | --- | --- | -1.92 | 0.336 | 134.3 | 24.0 | -0.3 | 0.295 |
| 4-4190 | 4-4870 | 0.331 | 127.8 | 29.5 | 2.55 | 1.326 | 86.6 | 0.742 | 3.816 | 7.9 | 157.5 | --- | --- | -2.00 | 0.324 | 132.0 | 23.3 | -0.5 | 0.282 |
| 4-4190 | 4-4890 | 0.329 | 127.6 | 30.1 | 2.66 | 1.323 | 86.6 | 0.734 | 3.712 | 8.1 | 159.2 | --- | --- | -2.10 | 0.312 | 129.8 | 22.5 | -0.7 | 0.270 |
| 4-4190 | 4-4910 | 0.327 | 127.5 | 30.6 | 2.78 | 1.321 | 86.6 | 0.728 | 3.625 | 8.2 | 160.8 | --- | --- | -2.21 | 0.302 | 127.5 | 21.6 | -0.9 | 0.258 |
| 4-4190 | 4-4930 | 0.325 | 127.5 | 31.2 | 2.91 | 1.319 | 86.6 | 0.723 | 3.552 | 8.2 | 162.4 | --- | --- | -2.33 | 0.292 | 125.1 | 20.7 | -1.2 | 0.248 |
| 4-4190 | 4-4950 | 0.324 | 127.7 | 31.9 | 3.06 | 1.317 | 86.6 | 0.718 | 3.491 | 8.2 | 163.8 | --- | --- | -2.46 | 0.284 | 122.7 | 19.7 | -1.4 | 0.239 |
| 4-4190 | 4-4970 | 0.323 | 128.0 | 32.5 | 3.23 | 1.315 | 86.6 | 0.713 | 3.439 | 8.1 | 165.3 | --- | --- | -2.61 | 0.276 | 120.3 | 18.7 | -1.7 | 0.231 |
| 4-4190 | 4-4990 | 0.322 | 128.5 | 33.3 | 3.42 | 1.314 | 86.7 | 0.710 | 3.396 | 8.0 | 166.7 | --- | --- | -2.79 | 0.270 | 117.9 | 17.6 | -2.1 | 0.223 |
| 4-4190 | 4-5010 | 0.321 | 129.1 | 34.1 | 3.64 | 1.313 | 86.8 | 0.706 | 3.359 | 7.8 | 168.0 | --- | --- | -2.99 | 0.264 | 115.4 | 16.4 | -2.4 | 0.217 |
| 4-4190 | 4-5030 | 0.321 | 129.9 | 35.1 | 3.89 | 1.312 | 86.9 | 0.704 | 3.327 | 7.6 | 169.3 | --- | --- | -3.23 | 0.259 | 113.0 | 15.3 | -2.8 | 0.211 |
| 4-4190 | 4-5050 | 0.321 | 130.8 | 36.1 | 4.19 | 1.311 | 87.0 | 0.701 | 3.301 | 7.3 | 170.5 | --- | --- | -3.51 | 0.254 | 110.6 | 14.1 | -3.3 | 0.206 |
| 4-4190 | 4-5070 | 0.321 | 131.9 | 37.4 | 4.54 | 1.310 | 87.1 | 0.699 | 3.279 | 7.0 | 171.7 | --- | --- | -3.85 | 0.251 | 108.1 | 12.9 | -3.9 | 0.201 |
| 4-4190 | 4-5090 | 0.323 | 133.2 | 38.9 | 4.97 | 1.309 | 87.3 | 0.697 | 3.260 | 6.6 | 172.8 | --- | --- | -4.27 | 0.247 | 105.8 | 11.7 | -4.5 | 0.197 |
| 4-4190 | 4-5110 | 0.325 | 134.8 | 40.8 | 5.50 | 1.309 | 87.5 | 0.696 | 3.245 | 6.2 | 173.9 | --- | --- | -4.79 | 0.245 | 103.4 | 10.5 | -5.3 | 0.194 |
| 4-4190 | 4-5130 | 0.329 | 136.8 | 43.1 | 6.19 | 1.308 | 87.7 | 0.694 | 3.232 | 5.7 | 175.0 | --- | --- | -5.46 | 0.243 | 101.1 | 9.3 | -6.3 | 0.192 |
| 4-4190 | 4-5150 | 0.335 | 139.3 | 46.2 | 7.09 | 1.308 | 87.9 | 0.693 | 3.222 | 5.2 | 176.0 | --- | --- | -6.35 | 0.241 | 98.8 | 8.2 | -7.5 | 0.191 |
| 4-4190 | 4-5170 | 0.345 | 142.7 | 50.2 | 8.36 | 1.307 | 88.1 | 0.692 | 3.214 | 4.7 | 177.0 | --- | --- | -7.60 | 0.240 | 96.6 | 7.1 | -9.2 | 0.190 |
| 4-4190 | 4-5190 | 0.364 | 147.8 | 55.6 | 10.24 | 1.307 | 88.3 | 0.692 | 3.208 | 4.2 | 178.0 | --- | --- | -9.47 | 0.239 | 94.5 | 6.1 | -11.5 | 0.191 |
| 4-4190 | 4-5210 | 0.402 | 157.3 | 63.3 | 13.33 | 1.307 | 88.5 | 0.691 | 3.203 | 3.6 | 178.9 | --- | --- | -12.55 | 0.239 | 92.4 | 5.3 | -15.1 | 0.196 |
| 4-4190 | 4-5230 | 0.488 | 183.7 | 73.2 | 19.32 | 1.307 | 88.8 | 0.691 | 3.201 | 3.0 | 179.9 | --- | --- | -18.52 | 0.239 | 90.3 | 4.6 | -21.1 | 0.209 |
| 4-4190 | 4-5250 | 0.753 | 264.9 | 71.6 | 34.99 | 1.307 | 89.0 | 0.691 | 3.199 | 2.5 | 180.7 | --- | 5.409 | -34.18 | 0.239 | 88.4 | 4.3 | -30.8 | 0.261 |
| 4-4190 | 4-5270 | 1.605 | 357.6 | -63.4 | -86.70 | 1.307 | 89.8 | 0.691 | 3.199 | 0.5 | 181.5 | --- | 5.408 | 87.52 | 0.240 | 86.6 | 0.7 | 30.3 | 0.476 |
| 4-4190 | 4-5290 | 0.696 | 100.5 | -59.5 | -31.80 | 1.307 | 89.8 | 0.691 | 3.200 | 0.5 | 182.4 | --- | 5.410 | 32.64 | 0.241 | 84.7 | 360.0 | 30.4 | 0.255 |
| 4-4190 | 4-5310 | 0.453 | 119.4 | -39.3 | -17.13 | 1.307 | 90.0 | 0.691 | 3.202 | 359.9 | 543.2 | 0.990 | 5.414 | 17.98 | 0.242 | 82.9 | 359.7 | 20.8 | 0.209 |
| 4-4190 | 4-5330 | 0.375 | 126.7 | -26.1 | -11.40 | 1.307 | 90.3 | 0.691 | 3.205 | 359.2 | 544.0 | 0.990 | 5.420 | 12.26 | 0.243 | 81.2 | 359.4 | 15.0 | 0.196 |
| 4-4190 | 4-5350 | 0.341 | 131.2 | -17.4 | -8.40 | 1.307 | 90.6 | 0.692 | 3.208 | 358.5 | 544.8 | 0.990 | 5.427 | 9.28 | 0.244 | 79.5 | 359.1 | 11.6 | 0.192 |
| 4-4190 | 4-5370 | 0.325 | 134.6 | -11.5 | -6.57 | 1.307 | 91.0 | 0.692 | 3.213 | 357.7 | 545.5 | 0.990 | 5.436 | 7.46 | 0.246 | 78.0 | 358.7 | 9.3 | 0.191 |
| 4-4190 | 4-5390 | 0.316 | 137.4 | -7.3 | -5.33 | 1.308 | 91.3 | 0.693 | 3.218 | 356.8 | 546.2 | 0.989 | 5.447 | 6.24 | 0.248 | 76.5 | 358.5 | 7.8 | 0.191 |
| 4-4190 | 4-5410 | 0.311 | 139.9 | -4.4 | -4.44 | 1.308 | 91.6 | 0.693 | 3.224 | 356.0 | 546.9 | 0.989 | 5.459 | 5.36 | 0.249 | 75.0 | 358.3 | 6.6 | 0.192 |
| 4-4190 | 4-5430 | 0.308 | 142.2 | -2.2 | -3.77 | 1.308 | 92.0 | 0.694 | 3.230 | 355.1 | 547.6 | 0.988 | 5.472 | 4.70 | 0.251 | 73.6 | 358.2 | 5.8 | 0.193 |
| 4-4190 | 4-5450 | 0.307 | 144.4 | -0.6 | -3.24 | 1.308 | 92.4 | 0.695 | 3.237 | 354.2 | 548.3 | 0.988 | 5.486 | 4.18 | 0.253 | 72.3 | 358.1 | 5.1 | 0.195 |
| 4-4190 | 4-5470 | 0.306 | 146.5 | 0.6 | -2.81 | 1.309 | 92.7 | 0.696 | 3.244 | 353.3 | 548.9 | 0.987 | 5.502 | 3.77 | 0.256 | 71.0 | 358.1 | 4.5 | 0.197 |
| 4-4190 | 4-5490 | 0.306 | 148.6 | 1.5 | -2.46 | 1.309 | 93.1 | 0.697 | 3.252 | 352.4 | 549.5 | 0.986 | 5.518 | 3.44 | 0.258 | 69.7 | 358.2 | 4.1 | 0.199 |
| 4-4190 | 4-5510 | 0.307 | 150.6 | 2.1 | -2.17 | 1.309 | 93.5 | 0.698 | 3.260 | 351.4 | 550.2 | 0.985 | 5.535 | 3.16 | 0.260 | 68.6 | 358.3 | 3.7 | 0.201 |
| 4-4190 | 4-5530 | 0.308 | 152.5 | 2.6 | -1.92 | 1.309 | 93.9 | 0.699 | 3.269 | 350.4 | 550.7 | 0.984 | 5.554 | 2.92 | 0.262 | 67.4 | 358.6 | 3.4 | 0.203 |
| 4-4190 | 4-5550 | 0.310 | 154.5 | 2.9 | -1.70 | 1.310 | 94.3 | 0.700 | 3.278 | 349.4 | 551.3 | 0.983 | 5.573 | 2.72 | 0.265 | 66.3 | 358.8 | 3.2 | 0.206 |
| 4-4190 | 4-5570 | 0.312 | 156.4 | 3.0 | -1.51 | 1.310 | 94.8 | 0.701 | 3.287 | 348.4 | 551.9 | 0.982 | 5.593 | 2.55 | 0.267 | 65.2 | 359.2 | 2.9 | 0.208 |
| 4-4190 | 4-5590 | 0.314 | 158.3 | 3.1 | -1.35 | 1.310 | 95.2 | 0.703 | 3.297 | 347.4 | 552.5 | 0.980 | 5.613 | 2.40 | 0.270 | 64.2 | 359.6 | 2.7 | 0.211 |
| 4-4190 | 4-5610 | 0.317 | 160.1 | 3.1 | -1.20 | 1.311 | 95.6 | 0.704 | 3.307 | 346.3 | 553.0 | 0.978 | 5.635 | 2.26 | 0.272 | 63.2 | 0.0 | 2.6 | 0.213 |
| 4-4190 | 4-5630 | 0.320 | 162.0 | 2.9 | -1.07 | 1.311 | 96.1 | 0.706 | 3.317 | 345.3 | 553.5 | 0.976 | 5.657 | 2.14 | 0.275 | 62.3 | 0.5 | 2.4 | 0.216 |
| 4-4190 | 4-5650 | 0.323 | 163.8 | 2.8 | -0.95 | 1.312 | 96.5 | 0.707 | 3.327 | 344.2 | 554.0 | 0.974 | 5.680 | 2.04 | 0.277 | 61.4 | 1.1 | 2.3 | 0.219 |
| 4-4190 | 4-5670 | 0.327 | 165.6 | 2.5 | -0.84 | 1.312 | 97.0 | 0.709 | 3.337 | 343.1 | 554.5 | 0.972 | 5.703 | 1.94 | 0.280 | 60.5 | 1.7 | 2.2 | 0.222 |
| 4-4190 | 4-5690 | 0.331 | 167.4 | 2.3 | -0.74 | 1.312 | 97.5 | 0.710 | 3.348 | 342.0 | 555.0 | 0.970 | 5.727 | 1.86 | 0.282 | 59.6 | 2.3 | 2.1 | 0.224 |
| 4-4190 | 4-5710 | 0.335 | 169.1 | 2.0 | -0.65 | 1.313 | 98.0 | 0.712 | 3.359 | 340.8 | 555.5 | 0.967 | 5.751 | 1.78 | 0.285 | 58.8 | 3.0 | 2.1 | 0.227 |
| 4-4190 | 4-5730 | 0.340 | 170.9 | 1.6 | -0.56 | 1.313 | 98.5 | 0.714 | 3.370 | 339.7 | 555.9 | 0.964 | 5.776 | 1.71 | 0.288 | 58.0 | 3.8 | 2.0 | 0.230 |
| 4-4190 | 4-5750 | 0.345 | 172.6 | 1.2 | -0.48 | 1.313 | 99.0 | 0.716 | 3.382 | 338.5 | 556.4 | 0.961 | 5.802 | 1.65 | 0.290 | 57.2 | 4.6 | 2.0 | 0.233 |
| 4-4190 | 4-5770 | 0.350 | 174.3 | 0.8 | -0.41 | 1.314 | 99.5 | 0.718 | 3.393 | 337.3 | 556.8 | 0.958 | 5.828 | 1.59 | 0.293 | 56.4 | 5.4 | 1.9 | 0.236 |
| 4-4190 | 4-5790 | 0.356 | 175.9 | 0.4 | -0.34 | 1.314 | 100.0 | 0.720 | 3.405 | 336.1 | 557.2 | 0.954 | 5.855 | 1.54 | 0.295 | 55.7 | 6.2 | 1.9 | 0.240 |
| 4-4200 | 4-4480 | 0.634 | 154.9 | 14.0 | 1.30 | 1.646 | 91.4 | 1.675 | -1.462 | 357.8 | 467.9 | 0.987 | --- | -0.91 | 1.026 | 163.0 | 25.7 | 1.1 | 0.980 |
| 4-4200 | 4-4500 | 0.584 | 152.4 | 15.2 | 1.32 | 1.596 | 90.3 | 1.515 | -1.918 | 359.5 | 471.0 | 0.988 | --- | -0.92 | 0.943 | 162.1 | 26.0 | 1.0 | 0.899 |
| 4-4200 | 4-4520 | 0.543 | 149.8 | 16.4 | 1.35 | 1.554 | 89.4 | 1.385 | -2.563 | 1.1 | 114.1 | --- | --- | -0.93 | 0.871 | 161.1 | 26.3 | 1.0 | 0.827 |
| 4-4200 | 4-4540 | 0.510 | 147.1 | 17.6 | 1.38 | 1.519 | 88.5 | 1.279 | -3.535 | 2.7 | 117.3 | --- | --- | -0.94 | 0.807 | 160.0 | 26.5 | 1.0 | 0.764 |
| 4-4200 | 4-4560 | 0.483 | 144.4 | 18.8 | 1.41 | 1.490 | 87.7 | 1.192 | -5.144 | 4.3 | 120.4 | --- | --- | -0.95 | 0.750 | 158.9 | 26.7 | 1.0 | 0.708 |
| 4-4200 | 4-4580 | 0.460 | 141.8 | 19.8 | 1.43 | 1.465 | 86.9 | 1.119 | -8.283 | 5.8 | 123.4 | --- | --- | -0.96 | 0.699 | 157.7 | 26.9 | 1.0 | 0.658 |
| 4-4200 | 4-4600 | 0.442 | 139.2 | 20.8 | 1.46 | 1.444 | 86.2 | 1.05 | 816.972 | 7.3 | 126.4 | --- | --- | -0.98 | 0.653 | 156.4 | 27.0 | 1.0 | 0.613 |
| 4-4200 | 4-4620 | 0.427 | 136.8 | 21.7 | 1.49 | 1.425 | 85.6 | 1.00 | 746.272 | 8.7 | 129.3 | --- | --- | -0.99 | 0.612 | 155.1 | 27.1 | 1.0 | 0.573 |
| 4-4200 | 4-4640 | 0.415 | 134.5 | 22.6 | 1.52 | 1.410 | 85.1 | 0.96 | 326.763 | 10.0 | 132.2 | --- | --- | -1.01 | 0.574 | 153.7 | 27.1 | 0.9 | 0.536 |
| 4-4200 | 4-4660 | 0.405 | 132.4 | 23.3 | 1.56 | 1.396 | 84.6 | 0.92 | 613.314 | 11.2 | 134.9 | --- | --- | -1.03 | 0.540 | 152.2 | 27.1 | 0.9 | 0.502 |
| 4-4200 | 4-4680 | 0.397 | 130.4 | 24.0 | 1.59 | 1.385 | 84.2 | 0.895 | 9.307 | 12.4 | 137.5 | --- | --- | -1.05 | 0.509 | 150.7 | 27.0 | 0.8 | 0.472 |
| 4-4200 | 4-4700 | 0.390 | 128.6 | 24.6 | 1.62 | 1.375 | 83.8 | 0.868 | 7.393 | 13.4 | 140.1 | --- | --- | -1.07 | 0.481 | 149.0 | 26.9 | 0.8 | 0.444 |
| 4-4200 | 4-4720 | 0.385 | 127.0 | 25.1 | 1.66 | 1.366 | 83.4 | 0.845 | 6.279 | 14.3 | 142.5 | --- | --- | -1.09 | 0.456 | 147.3 | 26.7 | 0.7 | 0.418 |
| 4-4200 | 4-4740 | 0.380 | 125.6 | 25.6 | 1.70 | 1.358 | 83.2 | 0.825 | 5.554 | 15.2 | 144.9 | --- | --- | -1.11 | 0.432 | 145.6 | 26.4 | 0.7 | 0.395 |
| 4-4200 | 4-4760 | 0.376 | 124.4 | 26.1 | 1.74 | 1.352 | 82.9 | 0.808 | 5.049 | 15.9 | 147.1 | --- | --- | -1.14 | 0.411 | 143.7 | 26.1 | 0.6 | 0.373 |
| 4-4200 | 4-4780 | 0.372 | 123.3 | 26.5 | 1.78 | 1.346 | 82.7 | 0.793 | 4.678 | 16.5 | 149.3 | --- | --- | -1.16 | 0.391 | 141.8 | 25.7 | 0.5 | 0.354 |
| 4-4200 | 4-4800 | 0.369 | 122.4 | 26.8 | 1.82 | 1.341 | 82.5 | 0.780 | 4.397 | 17.1 | 151.3 | --- | --- | -1.19 | 0.373 | 139.8 | 25.2 | 0.4 | 0.336 |
| 4-4200 | 4-4820 | 0.366 | 121.6 | 27.2 | 1.86 | 1.336 | 82.4 | 0.768 | 4.178 | 17.5 | 153.3 | --- | --- | -1.22 | 0.357 | 137.8 | 24.6 | 0.4 | 0.319 |
| 4-4200 | 4-4840 | 0.364 | 121.0 | 27.5 | 1.91 | 1.332 | 82.3 | 0.758 | 4.004 | 17.9 | 155.1 | --- | --- | -1.26 | 0.342 | 135.6 | 24.0 | 0.3 | 0.304 |
| 4-4200 | 4-4860 | 0.362 | 120.6 | 27.8 | 1.96 | 1.329 | 82.2 | 0.750 | 3.863 | 18.2 | 156.9 | --- | --- | -1.30 | 0.328 | 133.4 | 23.3 | 0.1 | 0.290 |
| 4-4200 | 4-4880 | 0.359 | 120.2 | 28.1 | 2.02 | 1.326 | 82.2 | 0.742 | 3.748 | 18.4 | 158.7 | --- | --- | -1.34 | 0.316 | 131.2 | 22.5 | 0.0 | 0.277 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4200 | 4-4900 | 0.357 | 120.0 | 28.4 | 2.07 | 1.323 | 82.2 | 0.736 | 3.653 | 18.5 | 160.3 | --- | --- | -1.38 | 0.305 | 128.9 | 21.7 | -0.1 | 0.265 |
| 4-4200 | 4-4920 | 0.355 | 120.0 | 28.6 | 2.13 | 1.321 | 82.2 | 0.730 | 3.574 | 18.6 | 161.9 | --- | --- | -1.43 | 0.295 | 126.5 | 20.8 | -0.2 | 0.254 |
| 4-4200 | 4-4940 | 0.353 | 120.0 | 28.9 | 2.20 | 1.319 | 82.2 | 0.725 | 3.507 | 18.6 | 163.4 | --- | --- | -1.48 | 0.286 | 124.1 | 19.8 | -0.4 | 0.245 |
| 4-4200 | 4-4960 | 0.351 | 120.1 | 29.2 | 2.27 | 1.317 | 82.3 | 0.720 | 3.452 | 18.5 | 164.8 | --- | --- | -1.54 | 0.278 | 121.7 | 18.8 | -0.6 | 0.236 |
| 4-4200 | 4-4980 | 0.350 | 120.4 | 29.5 | 2.35 | 1.316 | 82.3 | 0.716 | 3.405 | 18.4 | 166.2 | --- | --- | -1.61 | 0.271 | 119.2 | 17.7 | -0.7 | 0.228 |
| 4-4200 | 4-5000 | 0.348 | 120.7 | 29.8 | 2.43 | 1.314 | 82.4 | 0.713 | 3.365 | 18.2 | 167.6 | --- | --- | -1.68 | 0.265 | 116.8 | 16.6 | -0.9 | 0.221 |
| 4-4200 | 4-5020 | 0.346 | 121.1 | 30.1 | 2.52 | 1.313 | 82.6 | 0.710 | 3.331 | 18.0 | 168.8 | --- | --- | -1.76 | 0.259 | 114.3 | 15.5 | -1.1 | 0.215 |
| 4-4200 | 4-5040 | 0.344 | 121.7 | 30.4 | 2.62 | 1.312 | 82.7 | 0.707 | 3.303 | 17.7 | 170.1 | --- | --- | -1.84 | 0.255 | 111.8 | 14.3 | -1.3 | 0.209 |
| 4-4200 | 4-5060 | 0.342 | 122.3 | 30.8 | 2.73 | 1.312 | 82.8 | 0.704 | 3.279 | 17.4 | 171.3 | --- | --- | -1.94 | 0.251 | 109.4 | 13.1 | -1.6 | 0.204 |
| 4-4200 | 4-5080 | 0.340 | 123.0 | 31.2 | 2.86 | 1.311 | 83.0 | 0.702 | 3.259 | 17.0 | 172.4 | --- | --- | -2.06 | 0.247 | 107.0 | 11.9 | -1.8 | 0.200 |
| 4-4200 | 4-5100 | 0.339 | 123.9 | 31.7 | 3.00 | 1.310 | 83.2 | 0.701 | 3.243 | 16.6 | 173.5 | --- | --- | -2.18 | 0.244 | 104.6 | 10.7 | -2.1 | 0.196 |
| 4-4200 | 4-5120 | 0.337 | 124.8 | 32.2 | 3.15 | 1.310 | 83.4 | 0.699 | 3.229 | 16.1 | 174.6 | --- | --- | -2.33 | 0.242 | 102.2 | 9.5 | -2.4 | 0.193 |
| 4-4200 | 4-5140 | 0.336 | 125.8 | 32.8 | 3.33 | 1.309 | 83.6 | 0.698 | 3.219 | 15.6 | 175.6 | --- | --- | -2.50 | 0.240 | 99.9 | 8.4 | -2.7 | 0.190 |
| 4-4200 | 4-5160 | 0.334 | 127.0 | 33.5 | 3.54 | 1.309 | 83.8 | 0.697 | 3.210 | 15.1 | 176.6 | --- | --- | -2.70 | 0.239 | 97.7 | 7.3 | -3.0 | 0.188 |
| 4-4200 | 4-5180 | 0.333 | 128.2 | 34.3 | 3.79 | 1.309 | 84.0 | 0.696 | 3.203 | 14.5 | 177.6 | --- | --- | -2.93 | 0.238 | 95.5 | 6.2 | -3.4 | 0.187 |
| 4-4200 | 4-5200 | 0.333 | 129.6 | 35.2 | 4.08 | 1.309 | 84.3 | 0.695 | 3.199 | 14.0 | 178.5 | --- | --- | -3.21 | 0.238 | 93.4 | 5.2 | -3.8 | 0.186 |
| 4-4200 | 4-5220 | 0.333 | 131.2 | 36.4 | 4.44 | 1.308 | 84.5 | 0.694 | 3.196 | 13.3 | 179.4 | --- | --- | -3.56 | 0.238 | 91.3 | 4.3 | -4.4 | 0.185 |
| 4-4200 | 4-5240 | 0.333 | 132.9 | 37.9 | 4.89 | 1.308 | 84.8 | 0.694 | 3.194 | 12.7 | 180.3 | --- | 5.410 | -3.99 | 0.238 | 89.3 | 3.4 | -5.0 | 0.185 |
| 4-4200 | 4-5260 | 0.335 | 134.9 | 39.8 | 5.45 | 1.308 | 85.1 | 0.693 | 3.194 | 12.0 | 181.2 | --- | 5.408 | -4.55 | 0.238 | 87.4 | 2.6 | -5.7 | 0.185 |
| 4-4200 | 4-5280 | 0.338 | 137.3 | 42.2 | 6.21 | 1.308 | 85.4 | 0.693 | 3.194 | 11.3 | 182.0 | --- | 5.409 | -5.29 | 0.239 | 85.5 | 2.0 | -6.7 | 0.186 |
| 4-4200 | 4-5300 | 0.345 | 140.4 | 45.6 | 7.26 | 1.309 | 85.7 | 0.693 | 3.196 | 10.6 | 182.8 | --- | 5.412 | -6.33 | 0.240 | 83.7 | 1.4 | -8.0 | 0.187 |
| 4-4200 | 4-5320 | 0.358 | 144.5 | 50.4 | 8.83 | 1.309 | 86.0 | 0.693 | 3.199 | 9.8 | 183.6 | --- | 5.417 | -7.89 | 0.241 | 82.0 | 0.9 | -9.9 | 0.190 |
| 4-4200 | 4-5340 | 0.384 | 151.3 | 57.6 | 11.41 | 1.309 | 86.3 | 0.693 | 3.203 | 9.1 | 184.3 | --- | 5.423 | -10.46 | 0.243 | 80.3 | 0.7 | -12.9 | 0.194 |
| 4-4200 | 4-5360 | 0.450 | 167.4 | 68.5 | 16.44 | 1.309 | 86.6 | 0.693 | 3.207 | 8.3 | 185.1 | --- | 5.431 | -15.48 | 0.244 | 78.8 | 0.8 | -18.1 | 0.205 |
| 4-4200 | 4-5380 | 0.671 | 246.9 | 76.9 | 30.08 | 1.309 | 86.9 | 0.694 | 3.212 | 7.6 | 185.8 | --- | 5.441 | -29.10 | 0.246 | 77.2 | 2.4 | -28.1 | 0.247 |
| 4-4200 | 4-5400 | 1.623 | 7.9 | -57.8 | -87.72 | 1.309 | 87.7 | 0.694 | 3.218 | 5.6 | 186.5 | --- | 5.451 | 88.71 | 0.248 | 75.8 | 4.8 | 30.0 | 0.485 |
| 4-4200 | 4-5420 | 0.625 | 105.0 | -53.5 | -27.46 | 1.310 | 87.8 | 0.694 | 3.225 | 5.4 | 187.2 | --- | 5.464 | 28.46 | 0.250 | 74.4 | 359.1 | 27.6 | 0.247 |
| 4-4200 | 4-5440 | 0.415 | 123.4 | -32.7 | -14.23 | 1.310 | 88.1 | 0.695 | 3.232 | 4.6 | 187.9 | --- | 5.477 | 15.24 | 0.252 | 73.0 | 358.3 | 17.5 | 0.210 |
| 4-4200 | 4-5460 | 0.354 | 130.6 | -20.0 | -9.29 | 1.310 | 88.5 | 0.695 | 3.239 | 3.7 | 188.5 | --- | 5.492 | 10.31 | 0.254 | 71.7 | 358.2 | 12.2 | 0.203 |
| 4-4200 | 4-5480 | 0.329 | 135.2 | -12.1 | -6.74 | 1.310 | 88.8 | 0.696 | 3.247 | 2.8 | 189.2 | --- | 5.507 | 7.78 | 0.257 | 70.5 | 358.2 | 9.3 | 0.201 |
| 4-4200 | 4-5500 | 0.317 | 138.7 | -7.1 | -5.19 | 1.311 | 89.2 | 0.697 | 3.255 | 1.9 | 189.8 | --- | 5.523 | 6.24 | 0.259 | 69.3 | 358.4 | 7.4 | 0.202 |
| 4-4200 | 4-5520 | 0.311 | 141.6 | -3.7 | -4.15 | 1.311 | 89.6 | 0.697 | 3.264 | 0.9 | 190.4 | --- | 5.541 | 5.21 | 0.261 | 68.2 | 358.6 | 6.2 | 0.203 |
| 4-4200 | 4-5540 | 0.307 | 144.3 | -1.3 | -3.40 | 1.311 | 90.0 | 0.698 | 3.273 | 359.9 | 551.0 | 0.988 | 5.559 | 4.47 | 0.264 | 67.1 | 358.8 | 5.3 | 0.205 |
| 4-4200 | 4-5560 | 0.305 | 146.8 | 0.3 | -2.84 | 1.312 | 90.4 | 0.699 | 3.283 | 358.9 | 551.6 | 0.988 | 5.578 | 3.92 | 0.266 | 66.0 | 359.2 | 4.6 | 0.206 |
| 4-4200 | 4-5580 | 0.303 | 149.1 | 1.5 | -2.40 | 1.312 | 90.9 | 0.700 | 3.292 | 357.9 | 552.1 | 0.987 | 5.597 | 3.49 | 0.269 | 65.0 | 359.5 | 4.1 | 0.209 |
| 4-4200 | 4-5600 | 0.303 | 151.4 | 2.3 | -2.04 | 1.312 | 91.3 | 0.701 | 3.302 | 356.9 | 552.7 | 0.987 | 5.618 | 3.15 | 0.271 | 64.1 | 360.0 | 3.6 | 0.211 |
| 4-4200 | 4-5620 | 0.303 | 153.6 | 2.8 | -1.75 | 1.313 | 91.7 | 0.702 | 3.313 | 355.8 | 553.2 | 0.987 | 5.639 | 2.87 | 0.274 | 63.1 | 0.4 | 3.3 | 0.213 |
| 4-4200 | 4-5640 | 0.304 | 155.8 | 3.1 | -1.50 | 1.313 | 92.2 | 0.703 | 3.323 | 354.8 | 553.7 | 0.986 | 5.660 | 2.63 | 0.276 | 62.2 | 1.0 | 3.0 | 0.216 |
| 4-4200 | 4-5660 | 0.305 | 157.9 | 3.3 | -1.29 | 1.313 | 92.6 | 0.704 | 3.334 | 353.7 | 554.2 | 0.985 | 5.683 | 2.43 | 0.279 | 61.3 | 1.6 | 2.8 | 0.218 |
| 4-4200 | 4-5680 | 0.306 | 160.0 | 3.3 | -1.11 | 1.314 | 93.1 | 0.706 | 3.345 | 352.6 | 554.7 | 0.984 | 5.705 | 2.27 | 0.281 | 60.5 | 2.2 | 2.6 | 0.221 |
| 4-4200 | 4-5700 | 0.308 | 162.1 | 3.2 | -0.95 | 1.314 | 93.5 | 0.707 | 3.356 | 351.5 | 555.2 | 0.983 | 5.729 | 2.12 | 0.284 | 59.7 | 2.9 | 2.5 | 0.224 |
| 4-4200 | 4-5720 | 0.310 | 164.2 | 3.0 | -0.82 | 1.315 | 94.0 | 0.708 | 3.367 | 350.3 | 555.7 | 0.982 | 5.753 | 1.99 | 0.287 | 58.9 | 3.6 | 2.4 | 0.226 |
| 4-4200 | 4-5740 | 0.313 | 166.2 | 2.8 | -0.69 | 1.315 | 94.5 | 0.710 | 3.379 | 349.2 | 556.2 | 0.980 | 5.777 | 1.88 | 0.289 | 58.2 | 4.3 | 2.3 | 0.229 |
| 4-4200 | 4-5760 | 0.315 | 168.2 | 2.4 | -0.58 | 1.315 | 95.0 | 0.711 | 3.390 | 348.0 | 556.6 | 0.979 | 5.802 | 1.78 | 0.292 | 57.4 | 5.1 | 2.2 | 0.232 |
| 4-4200 | 4-5780 | 0.319 | 170.2 | 2.1 | -0.48 | 1.316 | 95.5 | 0.713 | 3.402 | 346.8 | 557.1 | 0.977 | 5.827 | 1.70 | 0.295 | 56.7 | 5.9 | 2.1 | 0.235 |
| 4-4200 | 4-5800 | 0.322 | 172.2 | 1.7 | -0.39 | 1.316 | 96.0 | 0.714 | 3.414 | 345.6 | 557.5 | 0.975 | 5.853 | 1.62 | 0.297 | 56.0 | 6.8 | 2.0 | 0.238 |
| 4-4210 | 4-4490 | 0.630 | 148.2 | 16.3 | 1.25 | 1.630 | 84.8 | 1.616 | -1.590 | 8.4 | 109.1 | --- | --- | -0.68 | 0.999 | 162.8 | 26.0 | 1.1 | 0.954 |
| 4-4210 | 4-4510 | 0.587 | 145.3 | 17.5 | 1.27 | 1.582 | 83.9 | 1.464 | -2.106 | 10.2 | 112.4 | --- | --- | -0.68 | 0.918 | 161.9 | 26.3 | 1.1 | 0.875 |
| 4-4210 | 4-4530 | 0.553 | 142.4 | 18.6 | 1.28 | 1.542 | 83.1 | 1.341 | -2.856 | 12.0 | 115.7 | --- | --- | -0.69 | 0.847 | 160.9 | 26.5 | 1.1 | 0.806 |
| 4-4210 | 4-4550 | 0.526 | 139.5 | 19.6 | 1.30 | 1.509 | 82.4 | 1.241 | -4.028 | 13.7 | 118.9 | --- | --- | -0.69 | 0.785 | 159.8 | 26.6 | 1.1 | 0.744 |
| 4-4210 | 4-4570 | 0.504 | 136.7 | 20.6 | 1.32 | 1.481 | 81.7 | 1.159 | -6.090 | 15.4 | 122.1 | --- | --- | -0.70 | 0.729 | 158.6 | 26.8 | 1.1 | 0.690 |
| 4-4210 | 4-4590 | 0.486 | 134.0 | 21.5 | 1.34 | 1.457 | 81.1 | 1.091 | 10.612 | 17.0 | 125.3 | --- | --- | -0.70 | 0.679 | 157.4 | 26.9 | 1.1 | 0.641 |
| 4-4210 | 4-4610 | 0.472 | 131.5 | 22.2 | 1.36 | 1.437 | 80.6 | 1.034 | 28.111 | 18.6 | 128.3 | --- | --- | -0.71 | 0.635 | 156.2 | 26.9 | 1.1 | 0.597 |
| 4-4210 | 4-4630 | 0.461 | 129.2 | 22.9 | 1.38 | 1.419 | 80.1 | 0.987 | 72.109 | 20.0 | 131.3 | --- | --- | -0.72 | 0.594 | 154.8 | 26.9 | 1.1 | 0.558 |
| 4-4210 | 4-4650 | 0.452 | 127.1 | 23.5 | 1.40 | 1.405 | 79.6 | 0.947 | 17.905 | 21.4 | 134.2 | --- | --- | -0.72 | 0.558 | 153.4 | 26.9 | 1.0 | 0.522 |
| 4-4210 | 4-4670 | 0.445 | 125.2 | 24.0 | 1.42 | 1.392 | 79.2 | 0.913 | 10.911 | 22.6 | 136.9 | --- | --- | -0.73 | 0.525 | 151.9 | 26.8 | 1.0 | 0.490 |
| 4-4210 | 4-4690 | 0.439 | 123.5 | 24.4 | 1.44 | 1.381 | 78.9 | 0.884 | 8.177 | 23.7 | 139.5 | --- | --- | -0.74 | 0.495 | 150.3 | 26.6 | 1.0 | 0.460 |
| 4-4210 | 4-4710 | 0.434 | 122.0 | 24.8 | 1.47 | 1.371 | 78.6 | 0.860 | 6.727 | 24.7 | 142.1 | --- | --- | -0.75 | 0.467 | 148.6 | 26.4 | 0.9 | 0.433 |
| 4-4210 | 4-4730 | 0.430 | 120.7 | 25.2 | 1.49 | 1.363 | 78.3 | 0.839 | 5.835 | 25.6 | 144.5 | --- | --- | -0.76 | 0.442 | 146.9 | 26.1 | 0.9 | 0.408 |
| 4-4210 | 4-4750 | 0.426 | 119.6 | 25.5 | 1.51 | 1.356 | 78.1 | 0.821 | 5.235 | 26.4 | 146.8 | --- | --- | -0.77 | 0.419 | 145.1 | 25.8 | 0.9 | 0.386 |
| 4-4210 | 4-4770 | 0.423 | 118.6 | 25.7 | 1.54 | 1.349 | 77.9 | 0.805 | 4.807 | 27.1 | 149.0 | --- | --- | -0.79 | 0.398 | 143.2 | 25.3 | 0.8 | 0.365 |
| 4-4210 | 4-4790 | 0.420 | 117.7 | 26.0 | 1.56 | 1.344 | 77.8 | 0.791 | 4.487 | 27.7 | 151.1 | --- | --- | -0.80 | 0.379 | 141.2 | 24.9 | 0.7 | 0.346 |
| 4-4210 | 4-4810 | 0.417 | 117.1 | 26.2 | 1.59 | 1.339 | 77.7 | 0.780 | 4.242 | 28.2 | 153.1 | --- | --- | -0.81 | 0.362 | 139.2 | 24.3 | 0.7 | 0.329 |
| 4-4210 | 4-4830 | 0.415 | 116.5 | 26.4 | 1.61 | 1.335 | 77.6 | 0.769 | 4.050 | 28.6 | 155.0 | --- | --- | -0.83 | 0.346 | 137.1 | 23.7 | 0.6 | 0.313 |
| 4-4210 | 4-4850 | 0.412 | 116.1 | 26.5 | 1.64 | 1.331 | 77.6 | 0.761 | 3.896 | 28.9 | 156.8 | --- | --- | -0.85 | 0.332 | 134.9 | 23.0 | 0.5 | 0.298 |
| 4-4210 | 4-4870 | 0.410 | 115.8 | 26.7 | 1.67 | 1.328 | 77.6 | 0.753 | 3.771 | 29.1 | 158.5 | --- | --- | -0.86 | 0.319 | 132.6 | 22.2 | 0.4 | 0.285 |
| 4-4210 | 4-4890 | 0.408 | 115.6 | 26.8 | 1.70 | 1.325 | 77.6 | 0.746 | 3.668 | 29.2 | 160.1 | --- | --- | -0.88 | 0.307 | 130.3 | 21.4 | 0.4 | 0.272 |
| 4-4210 | 4-4910 | 0.405 | 115.5 | 27.0 | 1.73 | 1.323 | 77.6 | 0.740 | 3.583 | 29.3 | 161.7 | --- | --- | -0.90 | 0.296 | 127.9 | 20.5 | 0.3 | 0.261 |
| 4-4210 | 4-4930 | 0.403 | 115.5 | 27.1 | 1.77 | 1.321 | 77.6 | 0.734 | 3.512 | 29.3 | 163.2 | --- | --- | -0.93 | 0.287 | 125.5 | 19.5 | 0.2 | 0.251 |
| 4-4210 | 4-4950 | 0.401 | 115.6 | 27.3 | 1.80 | 1.319 | 77.7 | 0.730 | 3.453 | 29.2 | 164.7 | --- | --- | -0.95 | 0.278 | 123.1 | 18.5 | 0.1 | 0.242 |
| 4-4210 | 4-4970 | 0.398 | 115.7 | 27.4 | 1.84 | 1.317 | 77.8 | 0.726 | 3.403 | 29.1 | 166.1 | --- | --- | -0.98 | 0.271 | 120.6 | 17.4 | -0.1 | 0.234 |
| 4-4210 | 4-4990 | 0.396 | 116.0 | 27.5 | 1.88 | 1.316 | 77.9 | 0.722 | 3.361 | 28.9 | 167.4 | --- | --- | -1.01 | 0.264 | 118.1 | 16.3 | -0.2 | 0.226 |
| 4-4210 | 4-5010 | 0.393 | 116.3 | 27.6 | 1.92 | 1.315 | 78.1 | 0.719 | 3.326 | 28.7 | 168.7 | --- | --- | -1.04 | 0.258 | 115.6 | 15.2 | -0.3 | 0.219 |
| 4-4210 | 4-5030 | 0.390 | 116.7 | 27.8 | 1.96 | 1.313 | 78.2 | 0.716 | 3.296 | 28.4 | 169.9 | --- | --- | -1.07 | 0.253 | 113.0 | 14.0 | -0.4 | 0.214 |
| 4-4210 | 4-5050 | 0.388 | 117.2 | 27.9 | 2.01 | 1.313 | 78.4 | 0.713 | 3.271 | 28.0 | 171.1 | --- | --- | -1.11 | 0.249 | 110.5 | 12.8 | -0.6 | 0.208 |
| 4-4210 | 4-5070 | 0.385 | 117.7 | 28.0 | 2.06 | 1.312 | 78.6 | 0.711 | 3.250 | 27.7 | 172.2 | --- | --- | -1.15 | 0.245 | 108.1 | 11.7 | -0.7 | 0.204 |
| 4-4210 | 4-5090 | 0.382 | 118.3 | 28.2 | 2.11 | 1.311 | 78.7 | 0.709 | 3.233 | 27.2 | 173.3 | --- | --- | -1.20 | 0.242 | 105.6 | 10.5 | -0.8 | 0.200 |
| 4-4210 | 4-5110 | 0.379 | 119.0 | 28.3 | 2.17 | 1.311 | 79.0 | 0.707 | 3.219 | 26.8 | 174.4 | --- | --- | -1.25 | 0.240 | 103.2 | 9.3 | -1.0 | 0.196 |
| 4-4210 | 4-5130 | 0.376 | 119.7 | 28.5 | 2.24 | 1.310 | 79.2 | 0.706 | 3.208 | 26.3 | 175.4 | --- | --- | -1.30 | 0.238 | 100.8 | 8.2 | -1.1 | 0.194 |
| 4-4210 | 4-5150 | 0.373 | 120.5 | 28.6 | 2.31 | 1.310 | 79.4 | 0.704 | 3.199 | 25.7 | 176.4 | --- | --- | -1.36 | 0.237 | 98.5 | 7.1 | -1.3 | 0.191 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4210 | 4-5170 | 0.370 | 121.4 | 28.8 | 2.39 | 1.310 | 79.6 | 0.703 | 3.192 | 25.2 | 177.3 | --- | --- | -1.43 | 0.236 | 96.3 | 6.0 | -1.4 | 0.189 |
| 4-4210 | 4-5190 | 0.368 | 122.3 | 29.0 | 2.47 | 1.310 | 79.9 | 0.702 | 3.187 | 24.5 | 178.2 | --- | --- | -1.51 | 0.235 | 94.1 | 5.0 | -1.6 | 0.188 |
| 4-4210 | 4-5210 | 0.365 | 123.3 | 29.3 | 2.57 | 1.309 | 80.2 | 0.701 | 3.184 | 23.9 | 179.1 | --- | --- | -1.59 | 0.235 | 92.0 | 4.1 | -1.8 | 0.187 |
| 4-4210 | 4-5230 | 0.362 | 124.4 | 29.5 | 2.68 | 1.309 | 80.4 | 0.701 | 3.182 | 23.3 | 180.0 | --- | 5.412 | -1.69 | 0.235 | 90.0 | 3.2 | -2.0 | 0.186 |
| 4-4210 | 4-5250 | 0.359 | 125.5 | 29.9 | 2.80 | 1.309 | 80.7 | 0.700 | 3.182 | 22.6 | 180.9 | --- | 5.409 | -1.81 | 0.236 | 88.0 | 2.4 | -2.2 | 0.186 |
| 4-4210 | 4-5270 | 0.356 | 126.7 | 30.2 | 2.94 | 1.309 | 81.0 | 0.699 | 3.183 | 21.8 | 181.7 | --- | 5.409 | -1.94 | 0.237 | 86.1 | 1.7 | -2.4 | 0.186 |
| 4-4210 | 4-5290 | 0.354 | 128.0 | 30.7 | 3.10 | 1.309 | 81.3 | 0.699 | 3.185 | 21.1 | 182.5 | --- | 5.411 | -2.09 | 0.238 | 84.3 | 1.0 | -2.6 | 0.186 |
| 4-4210 | 4-5310 | 0.351 | 129.4 | 31.2 | 3.29 | 1.310 | 81.7 | 0.699 | 3.188 | 20.3 | 183.3 | --- | 5.415 | -2.27 | 0.239 | 82.5 | 0.5 | -2.9 | 0.187 |
| 4-4210 | 4-5330 | 0.349 | 130.9 | 31.8 | 3.52 | 1.310 | 82.0 | 0.698 | 3.192 | 19.6 | 184.0 | --- | 5.421 | -2.49 | 0.240 | 80.8 | 360.0 | -3.2 | 0.188 |
| 4-4210 | 4-5350 | 0.347 | 132.6 | 32.6 | 3.80 | 1.310 | 82.3 | 0.698 | 3.196 | 18.7 | 184.7 | --- | 5.428 | -2.76 | 0.242 | 79.2 | 359.6 | -3.5 | 0.189 |
| 4-4210 | 4-5370 | 0.346 | 134.3 | 33.7 | 4.15 | 1.310 | 82.6 | 0.698 | 3.202 | 17.9 | 185.5 | --- | 5.437 | -3.10 | 0.244 | 77.7 | 359.3 | -3.9 | 0.190 |
| 4-4210 | 4-5390 | 0.345 | 136.3 | 35.0 | 4.59 | 1.310 | 83.0 | 0.698 | 3.208 | 17.1 | 186.2 | --- | 5.448 | -3.53 | 0.246 | 76.2 | 359.1 | -4.5 | 0.191 |
| 4-4210 | 4-5410 | 0.346 | 138.6 | 36.9 | 5.18 | 1.311 | 83.3 | 0.698 | 3.214 | 16.2 | 186.9 | --- | 5.459 | -4.12 | 0.248 | 74.8 | 358.9 | -5.2 | 0.193 |
| 4-4210 | 4-5430 | 0.348 | 141.2 | 39.5 | 6.01 | 1.311 | 83.7 | 0.698 | 3.222 | 15.3 | 187.5 | --- | 5.472 | -4.93 | 0.250 | 73.5 | 358.9 | -6.1 | 0.195 |
| 4-4210 | 4-5450 | 0.355 | 144.7 | 43.4 | 7.25 | 1.311 | 84.1 | 0.699 | 3.229 | 14.4 | 188.2 | --- | 5.486 | -6.16 | 0.252 | 72.2 | 359.0 | -7.5 | 0.198 |
| 4-4210 | 4-5470 | 0.371 | 149.7 | 49.5 | 9.30 | 1.311 | 84.5 | 0.699 | 3.238 | 13.5 | 188.8 | --- | 5.500 | -8.21 | 0.254 | 70.9 | 359.2 | -9.8 | 0.202 |
| 4-4210 | 4-5490 | 0.417 | 159.7 | 60.1 | 13.40 | 1.312 | 84.8 | 0.699 | 3.246 | 12.6 | 189.4 | --- | 5.516 | -12.30 | 0.257 | 69.7 | 359.9 | -14.1 | 0.210 |
| 4-4210 | 4-5510 | 0.594 | 209.3 | 77.1 | 25.21 | 1.312 | 85.2 | 0.700 | 3.255 | 11.7 | 190.0 | --- | 5.533 | -24.10 | 0.259 | 68.6 | 2.2 | -24.0 | 0.241 |
| 4-4210 | 4-5530 | 1.540 | 22.4 | -55.3 | -81.81 | 1.312 | 85.9 | 0.700 | 3.265 | 9.9 | 190.6 | --- | 5.549 | 82.93 | 0.262 | 67.6 | 9.5 | 31.2 | 0.471 |
| 4-4210 | 4-5550 | 0.519 | 115.7 | -43.9 | -20.76 | 1.313 | 86.1 | 0.701 | 3.274 | 9.4 | 191.2 | --- | 5.568 | 21.89 | 0.264 | 66.5 | 359.9 | 22.3 | 0.239 |
| 4-4210 | 4-5570 | 0.375 | 130.9 | -23.2 | -10.49 | 1.313 | 86.5 | 0.701 | 3.284 | 8.5 | 191.8 | --- | 5.587 | 11.63 | 0.267 | 65.5 | 359.5 | 13.0 | 0.217 |
| 4-4210 | 4-5590 | 0.336 | 137.3 | -12.2 | -6.73 | 1.313 | 86.9 | 0.702 | 3.294 | 7.5 | 192.3 | --- | 5.606 | 7.88 | 0.269 | 64.5 | 359.8 | 9.0 | 0.214 |
| 4-4210 | 4-5610 | 0.321 | 141.5 | -5.9 | -4.79 | 1.314 | 87.4 | 0.702 | 3.305 | 6.4 | 192.9 | --- | 5.627 | 5.95 | 0.272 | 63.6 | 0.2 | 6.8 | 0.214 |
| 4-4210 | 4-5630 | 0.314 | 144.8 | -2.2 | -3.61 | 1.314 | 87.8 | 0.703 | 3.316 | 5.4 | 193.4 | --- | 5.647 | 4.78 | 0.275 | 62.7 | 0.8 | 5.5 | 0.216 |
| 4-4210 | 4-5650 | 0.309 | 147.7 | 0.2 | -2.81 | 1.315 | 88.2 | 0.704 | 3.327 | 4.3 | 193.9 | --- | 5.669 | 3.99 | 0.277 | 61.9 | 1.3 | 4.6 | 0.218 |
| 4-4210 | 4-5670 | 0.306 | 150.3 | 1.8 | -2.24 | 1.315 | 88.7 | 0.705 | 3.338 | 3.2 | 194.4 | --- | 5.690 | 3.43 | 0.280 | 61.0 | 2.0 | 3.9 | 0.220 |
| 4-4210 | 4-5690 | 0.305 | 152.8 | 2.8 | -1.81 | 1.315 | 89.1 | 0.706 | 3.349 | 2.1 | 194.9 | --- | 5.713 | 3.01 | 0.283 | 60.2 | 2.6 | 3.5 | 0.222 |
| 4-4210 | 4-5710 | 0.304 | 155.2 | 3.4 | -1.47 | 1.316 | 89.6 | 0.707 | 3.361 | 1.0 | 195.4 | --- | 5.736 | 2.68 | 0.285 | 59.5 | 3.3 | 3.1 | 0.224 |
| 4-4210 | 4-5730 | 0.303 | 157.6 | 3.8 | -1.20 | 1.316 | 90.1 | 0.708 | 3.373 | 359.8 | 555.9 | 0.986 | 5.759 | 2.41 | 0.288 | 58.7 | 4.0 | 2.8 | 0.227 |
| 4-4210 | 4-5750 | 0.303 | 159.9 | 3.9 | -0.97 | 1.317 | 90.5 | 0.709 | 3.384 | 358.7 | 556.4 | 0.986 | 5.783 | 2.20 | 0.291 | 58.0 | 4.8 | 2.6 | 0.229 |
| 4-4210 | 4-5770 | 0.303 | 162.1 | 3.9 | -0.79 | 1.317 | 91.0 | 0.710 | 3.396 | 357.5 | 556.8 | 0.986 | 5.807 | 2.02 | 0.293 | 57.3 | 5.6 | 2.5 | 0.232 |
| 4-4210 | 4-5790 | 0.304 | 164.4 | 3.7 | -0.62 | 1.317 | 91.5 | 0.711 | 3.408 | 356.3 | 557.3 | 0.985 | 5.832 | 1.87 | 0.296 | 56.7 | 6.5 | 2.3 | 0.235 |
| 4-4210 | 4-5810 | 0.305 | 166.6 | 3.5 | -0.49 | 1.318 | 92.0 | 0.712 | 3.421 | 355.1 | 557.7 | 0.984 | 5.857 | 1.74 | 0.299 | 56.0 | 7.4 | 2.2 | 0.237 |
| 4-4220 | 4-4520 | 0.623 | 138.4 | 19.3 | 1.24 | 1.567 | 77.3 | 1.401 | -2.352 | 21.8 | 114.6 | --- | --- | -0.46 | 0.891 | 161.9 | 26.2 | 1.2 | 0.851 |
| 4-4220 | 4-4540 | 0.595 | 135.5 | 20.2 | 1.26 | 1.529 | 76.6 | 1.288 | -3.253 | 23.7 | 118.0 | --- | --- | -0.46 | 0.822 | 160.9 | 26.3 | 1.2 | 0.783 |
| 4-4220 | 4-4560 | 0.572 | 132.7 | 21.0 | 1.27 | 1.498 | 76.0 | 1.197 | -4.735 | 25.6 | 121.4 | --- | --- | -0.46 | 0.761 | 159.8 | 26.4 | 1.2 | 0.724 |
| 4-4220 | 4-4580 | 0.555 | 130.2 | 21.7 | 1.28 | 1.471 | 75.5 | 1.122 | -7.591 | 27.4 | 124.7 | --- | --- | -0.46 | 0.707 | 158.6 | 26.5 | 1.2 | 0.671 |
| 4-4220 | 4-4600 | 0.541 | 127.9 | 22.4 | 1.29 | 1.448 | 75.0 | 1.060 | 15.251 | 29.1 | 127.9 | --- | --- | -0.47 | 0.658 | 157.4 | 26.5 | 1.2 | 0.624 |
| 4-4220 | 4-4620 | 0.530 | 125.7 | 22.9 | 1.31 | 1.429 | 74.6 | 1.009 | 97.861 | 30.6 | 131.0 | --- | --- | -0.47 | 0.614 | 156.1 | 26.5 | 1.2 | 0.582 |
| 4-4220 | 4-4640 | 0.521 | 123.8 | 23.3 | 1.32 | 1.412 | 74.2 | 0.967 | 27.435 | 32.1 | 134.0 | --- | --- | -0.47 | 0.575 | 154.7 | 26.4 | 1.2 | 0.543 |
| 4-4220 | 4-4660 | 0.513 | 122.1 | 23.7 | 1.33 | 1.398 | 73.9 | 0.931 | 13.146 | 33.4 | 136.8 | --- | --- | -0.47 | 0.539 | 153.3 | 26.3 | 1.1 | 0.509 |
| 4-4220 | 4-4680 | 0.507 | 120.6 | 24.1 | 1.34 | 1.386 | 73.6 | 0.901 | 9.106 | 34.6 | 139.5 | --- | --- | -0.48 | 0.507 | 151.7 | 26.1 | 1.1 | 0.477 |
| 4-4220 | 4-4700 | 0.502 | 119.3 | 24.4 | 1.36 | 1.376 | 73.4 | 0.875 | 7.210 | 35.7 | 142.1 | --- | --- | -0.48 | 0.478 | 150.1 | 25.8 | 1.1 | 0.449 |
| 4-4220 | 4-4720 | 0.498 | 118.1 | 24.6 | 1.37 | 1.367 | 73.2 | 0.854 | 6.117 | 36.7 | 144.6 | --- | --- | -0.48 | 0.451 | 148.4 | 25.5 | 1.1 | 0.423 |
| 4-4220 | 4-4740 | 0.494 | 117.2 | 24.8 | 1.38 | 1.359 | 73.0 | 0.835 | 5.410 | 37.5 | 146.9 | --- | --- | -0.49 | 0.426 | 146.6 | 25.1 | 1.0 | 0.399 |
| 4-4220 | 4-4760 | 0.491 | 116.3 | 25.0 | 1.40 | 1.352 | 72.9 | 0.819 | 4.919 | 38.2 | 149.2 | --- | --- | -0.49 | 0.404 | 144.8 | 24.7 | 1.0 | 0.377 |
| 4-4220 | 4-4780 | 0.488 | 115.6 | 25.1 | 1.41 | 1.346 | 72.8 | 0.805 | 4.561 | 38.8 | 151.3 | --- | --- | -0.50 | 0.384 | 142.8 | 24.2 | 0.9 | 0.357 |
| 4-4220 | 4-4800 | 0.485 | 115.1 | 25.3 | 1.43 | 1.341 | 72.7 | 0.793 | 4.290 | 39.3 | 153.3 | --- | --- | -0.50 | 0.365 | 140.8 | 23.6 | 0.9 | 0.339 |
| 4-4220 | 4-4820 | 0.482 | 114.6 | 25.4 | 1.44 | 1.337 | 72.7 | 0.783 | 4.080 | 39.7 | 155.2 | --- | --- | -0.51 | 0.349 | 138.7 | 23.0 | 0.8 | 0.322 |
| 4-4220 | 4-4840 | 0.479 | 114.3 | 25.5 | 1.46 | 1.333 | 72.7 | 0.774 | 3.913 | 40.0 | 157.0 | --- | --- | -0.52 | 0.333 | 136.5 | 22.3 | 0.8 | 0.307 |
| 4-4220 | 4-4860 | 0.476 | 114.0 | 25.6 | 1.47 | 1.329 | 72.7 | 0.766 | 3.779 | 40.2 | 158.7 | --- | --- | -0.52 | 0.319 | 134.2 | 21.5 | 0.7 | 0.293 |
| 4-4220 | 4-4880 | 0.474 | 113.9 | 25.7 | 1.49 | 1.326 | 72.7 | 0.759 | 3.669 | 40.3 | 160.3 | --- | --- | -0.53 | 0.307 | 131.9 | 20.6 | 0.6 | 0.280 |
| 4-4220 | 4-4900 | 0.471 | 113.8 | 25.7 | 1.50 | 1.324 | 72.8 | 0.753 | 3.579 | 40.4 | 161.9 | --- | --- | -0.54 | 0.296 | 129.5 | 19.7 | 0.6 | 0.269 |
| 4-4220 | 4-4920 | 0.468 | 113.8 | 25.8 | 1.52 | 1.321 | 72.9 | 0.748 | 3.505 | 40.4 | 163.4 | --- | --- | -0.55 | 0.286 | 127.0 | 18.8 | 0.5 | 0.258 |
| 4-4220 | 4-4940 | 0.465 | 113.9 | 25.9 | 1.54 | 1.319 | 73.0 | 0.743 | 3.442 | 40.3 | 164.8 | --- | --- | -0.56 | 0.276 | 124.5 | 17.8 | 0.4 | 0.249 |
| 4-4220 | 4-4960 | 0.462 | 114.0 | 25.9 | 1.56 | 1.318 | 73.1 | 0.739 | 3.390 | 40.1 | 166.2 | --- | --- | -0.57 | 0.268 | 122.0 | 16.7 | 0.3 | 0.240 |
| 4-4220 | 4-4980 | 0.458 | 114.2 | 26.0 | 1.58 | 1.316 | 73.2 | 0.735 | 3.347 | 39.9 | 167.5 | --- | --- | -0.58 | 0.261 | 119.4 | 15.6 | 0.3 | 0.232 |
| 4-4220 | 4-5000 | 0.455 | 114.5 | 26.0 | 1.60 | 1.315 | 73.4 | 0.731 | 3.310 | 39.6 | 168.7 | --- | --- | -0.59 | 0.255 | 116.8 | 14.5 | 0.2 | 0.226 |
| 4-4220 | 4-5020 | 0.452 | 114.8 | 26.1 | 1.62 | 1.314 | 73.5 | 0.728 | 3.279 | 39.3 | 169.9 | --- | --- | -0.61 | 0.250 | 114.2 | 13.3 | 0.1 | 0.219 |
| 4-4220 | 4-5040 | 0.448 | 115.2 | 26.1 | 1.64 | 1.313 | 73.7 | 0.726 | 3.254 | 39.0 | 171.1 | --- | --- | -0.62 | 0.245 | 111.6 | 12.2 | -0.0 | 0.214 |
| 4-4220 | 4-5060 | 0.445 | 115.7 | 26.1 | 1.66 | 1.312 | 73.9 | 0.723 | 3.232 | 38.6 | 172.2 | --- | --- | -0.64 | 0.242 | 109.1 | 11.0 | -0.1 | 0.209 |
| 4-4220 | 4-5080 | 0.441 | 116.2 | 26.2 | 1.68 | 1.312 | 74.1 | 0.721 | 3.215 | 38.1 | 173.3 | --- | --- | -0.65 | 0.238 | 106.6 | 9.8 | -0.2 | 0.205 |
| 4-4220 | 4-5100 | 0.438 | 116.7 | 26.2 | 1.71 | 1.311 | 74.4 | 0.719 | 3.201 | 37.6 | 174.3 | --- | --- | -0.67 | 0.236 | 104.1 | 8.7 | -0.3 | 0.201 |
| 4-4220 | 4-5120 | 0.434 | 117.3 | 26.2 | 1.74 | 1.311 | 74.6 | 0.717 | 3.189 | 37.1 | 175.3 | --- | --- | -0.69 | 0.234 | 101.6 | 7.6 | -0.4 | 0.198 |
| 4-4220 | 4-5140 | 0.430 | 117.9 | 26.3 | 1.76 | 1.310 | 74.9 | 0.716 | 3.180 | 36.5 | 176.3 | --- | --- | -0.71 | 0.232 | 99.2 | 6.5 | -0.5 | 0.196 |
| 4-4220 | 4-5160 | 0.426 | 118.6 | 26.3 | 1.79 | 1.310 | 75.1 | 0.714 | 3.174 | 35.9 | 177.2 | --- | --- | -0.73 | 0.231 | 96.9 | 5.5 | -0.6 | 0.194 |
| 4-4220 | 4-5180 | 0.422 | 119.3 | 26.3 | 1.83 | 1.310 | 75.4 | 0.713 | 3.169 | 35.3 | 178.1 | --- | --- | -0.76 | 0.231 | 94.7 | 4.5 | -0.7 | 0.192 |
| 4-4220 | 4-5200 | 0.418 | 120.1 | 26.3 | 1.86 | 1.310 | 75.7 | 0.712 | 3.166 | 34.7 | 179.0 | --- | --- | -0.79 | 0.231 | 92.5 | 3.6 | -0.8 | 0.191 |
| 4-4220 | 4-5220 | 0.414 | 120.9 | 26.4 | 1.90 | 1.310 | 76.0 | 0.711 | 3.164 | 34.0 | 179.8 | --- | --- | -0.82 | 0.231 | 90.4 | 2.8 | -0.8 | 0.190 |
| 4-4220 | 4-5240 | 0.410 | 121.8 | 26.4 | 1.94 | 1.310 | 76.3 | 0.710 | 3.164 | 33.3 | 180.7 | --- | 5.411 | -0.85 | 0.232 | 88.4 | 2.0 | -0.9 | 0.190 |
| 4-4220 | 4-5260 | 0.406 | 122.7 | 26.4 | 1.98 | 1.310 | 76.6 | 0.709 | 3.165 | 32.6 | 181.5 | --- | 5.410 | -0.89 | 0.232 | 86.4 | 1.3 | -1.0 | 0.190 |
| 4-4220 | 4-5280 | 0.402 | 123.6 | 26.5 | 2.03 | 1.310 | 76.9 | 0.709 | 3.168 | 31.8 | 182.3 | --- | 5.412 | -0.93 | 0.234 | 84.5 | 0.6 | -1.1 | 0.190 |
| 4-4220 | 4-5300 | 0.398 | 124.6 | 26.5 | 2.09 | 1.310 | 77.2 | 0.708 | 3.171 | 31.0 | 183.0 | --- | 5.415 | -0.98 | 0.235 | 82.8 | 0.1 | -1.2 | 0.190 |
| 4-4220 | 4-5320 | 0.394 | 125.7 | 26.6 | 2.15 | 1.310 | 77.5 | 0.707 | 3.175 | 30.2 | 183.8 | --- | 5.421 | -1.03 | 0.236 | 81.0 | 359.6 | -1.3 | 0.190 |
| 4-4220 | 4-5340 | 0.390 | 126.8 | 26.7 | 2.21 | 1.310 | 77.9 | 0.707 | 3.180 | 29.4 | 184.5 | --- | 5.428 | -1.09 | 0.238 | 79.4 | 359.2 | -1.4 | 0.191 |
| 4-4220 | 4-5360 | 0.385 | 128.0 | 26.7 | 2.29 | 1.311 | 78.2 | 0.706 | 3.186 | 28.6 | 185.2 | --- | 5.436 | -1.16 | 0.240 | 77.8 | 358.9 | -1.5 | 0.192 |
| 4-4220 | 4-5380 | 0.381 | 129.2 | 26.9 | 2.37 | 1.311 | 78.6 | 0.706 | 3.192 | 27.7 | 185.9 | --- | 5.446 | -1.24 | 0.242 | 76.3 | 358.6 | -1.6 | 0.193 |
| 4-4220 | 4-5400 | 0.377 | 130.4 | 27.0 | 2.47 | 1.311 | 78.9 | 0.706 | 3.199 | 26.8 | 186.6 | --- | 5.457 | -1.33 | 0.244 | 74.9 | 358.5 | -1.7 | 0.195 |
| 4-4220 | 4-5420 | 0.373 | 131.8 | 27.2 | 2.58 | 1.311 | 79.3 | 0.706 | 3.207 | 25.9 | 187.2 | --- | 5.469 | -1.43 | 0.246 | 73.5 | 358.4 | -1.8 | 0.196 |
| 4-4220 | 4-5440 | 0.370 | 133.2 | 27.4 | 2.71 | 1.312 | 79.7 | 0.706 | 3.215 | 25.0 | 187.9 | --- | 5.483 | -1.56 | 0.249 | 72.2 | 358.3 | -2.0 | 0.197 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4220 | 4-5460 | 0.366 | 134.7 | 27.7 | 2.87 | 1.312 | 80.1 | 0.706 | 3.223 | 24.1 | 188.5 | --- | 5.497 | -1.71 | 0.251 | 71.0 | 358.4 | -2.1 | 0.199 |
| 4-4220 | 4-5480 | 0.363 | 136.3 | 28.2 | 3.06 | 1.312 | 80.5 | 0.705 | 3.232 | 23.1 | 189.1 | --- | 5.512 | -1.90 | 0.254 | 69.8 | 358.5 | -2.3 | 0.201 |
| 4-4220 | 4-5500 | 0.359 | 138.0 | 28.8 | 3.31 | 1.313 | 80.9 | 0.706 | 3.241 | 22.1 | 189.7 | --- | 5.528 | -2.13 | 0.256 | 68.7 | 358.7 | -2.6 | 0.203 |
| 4-4220 | 4-5520 | 0.357 | 139.8 | 29.6 | 3.62 | 1.313 | 81.3 | 0.706 | 3.251 | 21.2 | 190.3 | --- | 5.545 | -2.44 | 0.259 | 67.6 | 358.9 | -2.9 | 0.205 |
| 4-4220 | 4-5540 | 0.355 | 141.9 | 30.7 | 4.03 | 1.313 | 81.7 | 0.706 | 3.261 | 20.2 | 190.9 | --- | 5.563 | -2.85 | 0.261 | 66.6 | 359.2 | -3.4 | 0.207 |
| 4-4220 | 4-5560 | 0.354 | 144.2 | 32.5 | 4.62 | 1.314 | 82.1 | 0.706 | 3.272 | 19.1 | 191.4 | --- | 5.581 | -3.43 | 0.264 | 65.6 | 359.6 | -4.0 | 0.209 |
| 4-4220 | 4-5580 | 0.355 | 147.1 | 35.2 | 5.51 | 1.314 | 82.5 | 0.706 | 3.282 | 18.1 | 192.0 | --- | 5.600 | -4.31 | 0.267 | 64.6 | 0.1 | -4.9 | 0.212 |
| 4-4220 | 4-5600 | 0.363 | 151.0 | 39.8 | 7.01 | 1.314 | 82.9 | 0.706 | 3.293 | 17.1 | 192.5 | --- | 5.620 | -5.81 | 0.270 | 63.7 | 0.7 | -6.5 | 0.215 |
| 4-4220 | 4-5620 | 0.388 | 157.7 | 48.8 | 10.13 | 1.315 | 83.4 | 0.707 | 3.304 | 16.0 | 193.1 | --- | 5.640 | -8.92 | 0.272 | 62.8 | 1.6 | -9.7 | 0.220 |
| 4-4220 | 4-5640 | 0.521 | 183.2 | 69.7 | 20.22 | 1.315 | 83.8 | 0.707 | 3.316 | 15.0 | 193.6 | --- | 5.660 | -19.01 | 0.275 | 62.0 | 4.0 | -18.9 | 0.242 |
| 4-4220 | 4-5660 | 1.176 | 55.2 | -58.1 | -58.74 | 1.316 | 84.4 | 0.707 | 3.327 | 13.6 | 194.1 | --- | 5.681 | 59.96 | 0.278 | 61.2 | 11.0 | 33.3 | 0.391 |
| 4-4220 | 4-5680 | 0.409 | 130.9 | -28.2 | -12.58 | 1.316 | 84.7 | 0.708 | 3.339 | 12.7 | 194.6 | --- | 5.703 | 13.81 | 0.281 | 60.4 | 2.6 | 14.5 | 0.235 |
| 4-4220 | 4-5700 | 0.343 | 141.2 | -11.0 | -6.30 | 1.316 | 85.2 | 0.709 | 3.351 | 11.6 | 195.1 | --- | 5.725 | 7.53 | 0.283 | 59.7 | 3.0 | 8.3 | 0.228 |
| 4-4220 | 4-5720 | 0.326 | 146.1 | -3.4 | -3.92 | 1.317 | 85.7 | 0.709 | 3.363 | 10.5 | 195.6 | --- | 5.748 | 5.17 | 0.286 | 59.0 | 3.7 | 5.8 | 0.228 |
| 4-4220 | 4-5740 | 0.318 | 149.7 | 0.5 | -2.68 | 1.317 | 86.1 | 0.710 | 3.375 | 9.3 | 196.1 | --- | 5.771 | 3.93 | 0.289 | 58.3 | 4.5 | 4.4 | 0.230 |
| 4-4220 | 4-5760 | 0.314 | 152.6 | 2.7 | -1.91 | 1.318 | 86.6 | 0.711 | 3.387 | 8.2 | 196.5 | --- | 5.794 | 3.17 | 0.291 | 57.6 | 5.3 | 3.7 | 0.232 |
| 4-4220 | 4-5780 | 0.311 | 155.3 | 3.9 | -1.40 | 1.318 | 87.1 | 0.711 | 3.400 | 7.0 | 197.0 | --- | 5.818 | 2.66 | 0.294 | 57.0 | 6.1 | 3.1 | 0.234 |
| 4-4220 | 4-5800 | 0.309 | 157.8 | 4.6 | -1.02 | 1.318 | 87.6 | 0.712 | 3.412 | 5.8 | 197.4 | --- | 5.842 | 2.29 | 0.297 | 56.4 | 7.0 | 2.8 | 0.236 |
| 4-4220 | 4-5820 | 0.307 | 160.2 | 4.9 | -0.73 | 1.319 | 88.1 | 0.713 | 3.425 | 4.6 | 197.9 | --- | 5.867 | 2.01 | 0.300 | 55.8 | 7.9 | 2.5 | 0.239 |
| 4-4230 | 4-4570 | 0.646 | 128.1 | 21.7 | 1.27 | 1.485 | 69.4 | 1.150 | -5.792 | 38.4 | 124.8 | --- | --- | -0.24 | 0.735 | 160.0 | 25.9 | 1.3 | 0.704 |
| 4-4230 | 4-4590 | 0.630 | 126.0 | 22.2 | 1.28 | 1.460 | 69.0 | 1.084 | 10.218 | 40.2 | 128.1 | --- | --- | -0.24 | 0.682 | 158.8 | 25.8 | 1.2 | 0.653 |
| 4-4230 | 4-4610 | 0.618 | 124.1 | 22.6 | 1.28 | 1.438 | 68.7 | 1.031 | 28.044 | 41.9 | 131.3 | --- | --- | -0.24 | 0.635 | 157.6 | 25.8 | 1.2 | 0.608 |
| 4-4230 | 4-4630 | 0.608 | 122.4 | 23.0 | 1.29 | 1.420 | 68.4 | 0.986 | 61.020 | 43.5 | 134.4 | --- | --- | -0.24 | 0.592 | 156.3 | 25.7 | 1.2 | 0.567 |
| 4-4230 | 4-4650 | 0.600 | 121.0 | 23.3 | 1.29 | 1.405 | 68.2 | 0.949 | 16.585 | 44.9 | 137.3 | --- | --- | -0.24 | 0.554 | 154.8 | 25.5 | 1.2 | 0.530 |
| 4-4230 | 4-4670 | 0.593 | 119.7 | 23.5 | 1.30 | 1.391 | 68.0 | 0.918 | 10.257 | 46.1 | 140.1 | --- | --- | -0.24 | 0.519 | 153.4 | 25.3 | 1.2 | 0.496 |
| 4-4230 | 4-4690 | 0.587 | 118.6 | 23.7 | 1.31 | 1.380 | 67.8 | 0.892 | 7.743 | 47.3 | 142.8 | --- | --- | -0.24 | 0.488 | 151.8 | 25.0 | 1.2 | 0.466 |
| 4-4230 | 4-4710 | 0.582 | 117.7 | 23.9 | 1.31 | 1.370 | 67.7 | 0.870 | 6.402 | 48.2 | 145.3 | --- | --- | -0.24 | 0.459 | 150.1 | 24.6 | 1.2 | 0.438 |
| 4-4230 | 4-4730 | 0.577 | 116.9 | 24.1 | 1.32 | 1.362 | 67.6 | 0.852 | 5.574 | 49.1 | 147.6 | --- | --- | -0.24 | 0.433 | 148.4 | 24.2 | 1.1 | 0.413 |
| 4-4230 | 4-4750 | 0.573 | 116.2 | 24.2 | 1.33 | 1.354 | 67.5 | 0.836 | 5.016 | 49.8 | 149.8 | --- | --- | -0.24 | 0.409 | 146.5 | 23.7 | 1.1 | 0.390 |
| 4-4230 | 4-4770 | 0.569 | 115.6 | 24.3 | 1.33 | 1.348 | 67.4 | 0.822 | 4.617 | 50.4 | 151.9 | --- | --- | -0.24 | 0.387 | 144.6 | 23.2 | 1.1 | 0.369 |
| 4-4230 | 4-4790 | 0.566 | 115.2 | 24.4 | 1.34 | 1.342 | 67.4 | 0.810 | 4.321 | 50.9 | 153.9 | --- | --- | -0.24 | 0.368 | 142.6 | 22.6 | 1.0 | 0.350 |
| 4-4230 | 4-4810 | 0.562 | 114.8 | 24.5 | 1.35 | 1.338 | 67.4 | 0.800 | 4.094 | 51.2 | 155.8 | --- | --- | -0.24 | 0.350 | 140.5 | 21.9 | 1.0 | 0.333 |
| 4-4230 | 4-4830 | 0.558 | 114.6 | 24.5 | 1.35 | 1.333 | 67.5 | 0.791 | 3.915 | 51.5 | 157.6 | --- | --- | -0.25 | 0.334 | 138.2 | 21.2 | 0.9 | 0.317 |
| 4-4230 | 4-4850 | 0.555 | 114.4 | 24.6 | 1.36 | 1.330 | 67.5 | 0.783 | 3.773 | 51.7 | 159.3 | --- | --- | -0.25 | 0.319 | 136.0 | 20.4 | 0.9 | 0.303 |
| 4-4230 | 4-4870 | 0.551 | 114.3 | 24.6 | 1.37 | 1.327 | 67.6 | 0.776 | 3.657 | 51.8 | 160.9 | --- | --- | -0.25 | 0.305 | 133.6 | 19.5 | 0.8 | 0.289 |
| 4-4230 | 4-4890 | 0.548 | 114.3 | 24.7 | 1.37 | 1.324 | 67.7 | 0.770 | 3.563 | 51.8 | 162.4 | --- | --- | -0.25 | 0.293 | 131.1 | 18.6 | 0.8 | 0.277 |
| 4-4230 | 4-4910 | 0.544 | 114.3 | 24.7 | 1.38 | 1.321 | 67.8 | 0.764 | 3.485 | 51.7 | 163.9 | --- | --- | -0.26 | 0.283 | 128.6 | 17.6 | 0.7 | 0.267 |
| 4-4230 | 4-4930 | 0.540 | 114.4 | 24.7 | 1.39 | 1.319 | 68.0 | 0.759 | 3.421 | 51.6 | 165.2 | --- | --- | -0.26 | 0.273 | 126.1 | 16.6 | 0.7 | 0.257 |
| 4-4230 | 4-4950 | 0.537 | 114.6 | 24.7 | 1.39 | 1.318 | 68.1 | 0.755 | 3.367 | 51.4 | 166.6 | --- | --- | -0.26 | 0.265 | 123.5 | 15.6 | 0.6 | 0.248 |
| 4-4230 | 4-4970 | 0.533 | 114.8 | 24.8 | 1.40 | 1.316 | 68.3 | 0.751 | 3.322 | 51.2 | 167.8 | --- | --- | -0.26 | 0.257 | 120.8 | 14.5 | 0.5 | 0.240 |
| 4-4230 | 4-4990 | 0.529 | 115.0 | 24.8 | 1.41 | 1.315 | 68.5 | 0.748 | 3.285 | 50.9 | 169.0 | --- | --- | -0.27 | 0.251 | 118.1 | 13.4 | 0.5 | 0.233 |
| 4-4230 | 4-5010 | 0.525 | 115.3 | 24.8 | 1.42 | 1.314 | 68.7 | 0.745 | 3.253 | 50.5 | 170.2 | --- | --- | -0.27 | 0.245 | 115.4 | 12.2 | 0.4 | 0.226 |
| 4-4230 | 4-5030 | 0.521 | 115.7 | 24.8 | 1.43 | 1.313 | 68.9 | 0.742 | 3.227 | 50.1 | 171.3 | --- | --- | -0.28 | 0.240 | 112.8 | 11.1 | 0.3 | 0.221 |
| 4-4230 | 4-5050 | 0.516 | 116.1 | 24.8 | 1.44 | 1.312 | 69.1 | 0.739 | 3.206 | 49.7 | 172.4 | --- | --- | -0.28 | 0.236 | 110.1 | 10.0 | 0.2 | 0.216 |
| 4-4230 | 4-5070 | 0.512 | 116.5 | 24.7 | 1.44 | 1.311 | 69.4 | 0.737 | 3.188 | 49.2 | 173.4 | --- | --- | -0.29 | 0.233 | 107.5 | 8.8 | 0.2 | 0.212 |
| 4-4230 | 4-5090 | 0.508 | 116.9 | 24.7 | 1.45 | 1.311 | 69.6 | 0.735 | 3.174 | 48.7 | 174.4 | --- | --- | -0.29 | 0.230 | 104.9 | 7.7 | 0.1 | 0.208 |
| 4-4230 | 4-5110 | 0.503 | 117.4 | 24.7 | 1.46 | 1.310 | 69.9 | 0.733 | 3.163 | 48.1 | 175.4 | --- | --- | -0.30 | 0.228 | 102.3 | 6.7 | 0.0 | 0.205 |
| 4-4230 | 4-5130 | 0.498 | 118.0 | 24.7 | 1.47 | 1.310 | 70.2 | 0.731 | 3.154 | 47.5 | 176.3 | --- | --- | -0.30 | 0.227 | 99.8 | 5.6 | -0.0 | 0.202 |
| 4-4230 | 4-5150 | 0.494 | 118.5 | 24.6 | 1.48 | 1.310 | 70.4 | 0.729 | 3.148 | 46.9 | 177.2 | --- | --- | -0.31 | 0.226 | 97.4 | 4.7 | -0.1 | 0.200 |
| 4-4230 | 4-5170 | 0.489 | 119.1 | 24.6 | 1.50 | 1.310 | 70.7 | 0.728 | 3.143 | 46.2 | 178.1 | --- | --- | -0.32 | 0.225 | 95.1 | 3.7 | -0.2 | 0.198 |
| 4-4230 | 4-5190 | 0.484 | 119.8 | 24.6 | 1.51 | 1.310 | 71.0 | 0.726 | 3.141 | 45.6 | 178.9 | --- | --- | -0.33 | 0.225 | 92.8 | 2.8 | -0.2 | 0.197 |
| 4-4230 | 4-5210 | 0.479 | 120.4 | 24.5 | 1.52 | 1.309 | 71.3 | 0.725 | 3.140 | 44.9 | 179.8 | --- | --- | -0.33 | 0.225 | 90.6 | 2.0 | -0.3 | 0.196 |
| 4-4230 | 4-5230 | 0.475 | 121.1 | 24.5 | 1.53 | 1.310 | 71.7 | 0.724 | 3.140 | 44.1 | 180.6 | --- | 5.413 | -0.34 | 0.226 | 88.5 | 1.3 | -0.3 | 0.195 |
| 4-4230 | 4-5250 | 0.470 | 121.9 | 24.4 | 1.55 | 1.310 | 72.0 | 0.723 | 3.141 | 43.4 | 181.3 | --- | 5.412 | -0.35 | 0.227 | 86.5 | 0.6 | -0.4 | 0.195 |
| 4-4230 | 4-5270 | 0.465 | 122.6 | 24.4 | 1.56 | 1.310 | 72.3 | 0.722 | 3.144 | 42.6 | 182.1 | --- | 5.413 | -0.36 | 0.228 | 84.6 | 0.0 | -0.4 | 0.195 |
| 4-4230 | 4-5290 | 0.459 | 123.4 | 24.3 | 1.58 | 1.310 | 72.6 | 0.721 | 3.148 | 41.8 | 182.8 | --- | 5.417 | -0.38 | 0.230 | 82.7 | 359.5 | -0.5 | 0.195 |
| 4-4230 | 4-5310 | 0.454 | 124.2 | 24.2 | 1.59 | 1.310 | 73.0 | 0.720 | 3.152 | 41.0 | 183.6 | --- | 5.422 | -0.39 | 0.231 | 80.9 | 359.0 | -0.5 | 0.195 |
| 4-4230 | 4-5330 | 0.449 | 125.1 | 24.2 | 1.61 | 1.310 | 73.3 | 0.719 | 3.158 | 40.1 | 184.3 | --- | 5.429 | -0.40 | 0.233 | 79.3 | 358.7 | -0.5 | 0.196 |
| 4-4230 | 4-5350 | 0.444 | 126.0 | 24.1 | 1.63 | 1.310 | 73.7 | 0.718 | 3.164 | 39.3 | 185.0 | --- | 5.437 | -0.42 | 0.235 | 77.7 | 358.4 | -0.6 | 0.197 |
| 4-4230 | 4-5370 | 0.439 | 127.0 | 24.0 | 1.65 | 1.311 | 74.1 | 0.718 | 3.171 | 38.4 | 185.6 | --- | 5.447 | -0.44 | 0.237 | 76.1 | 358.1 | -0.6 | 0.198 |
| 4-4230 | 4-5390 | 0.434 | 127.9 | 23.9 | 1.67 | 1.311 | 74.5 | 0.717 | 3.178 | 37.5 | 186.3 | --- | 5.458 | -0.46 | 0.240 | 74.7 | 358.0 | -0.6 | 0.199 |
| 4-4230 | 4-5410 | 0.428 | 128.9 | 23.8 | 1.70 | 1.311 | 74.8 | 0.717 | 3.186 | 36.6 | 186.9 | --- | 5.470 | -0.48 | 0.242 | 73.3 | 357.9 | -0.7 | 0.200 |
| 4-4230 | 4-5430 | 0.423 | 130.0 | 23.7 | 1.73 | 1.312 | 75.2 | 0.716 | 3.195 | 35.7 | 187.6 | --- | 5.483 | -0.50 | 0.244 | 72.0 | 357.9 | -0.7 | 0.201 |
| 4-4230 | 4-5450 | 0.418 | 131.1 | 23.7 | 1.76 | 1.312 | 75.6 | 0.716 | 3.204 | 34.7 | 188.2 | --- | 5.497 | -0.53 | 0.247 | 70.7 | 357.9 | -0.7 | 0.203 |
| 4-4230 | 4-5470 | 0.413 | 132.2 | 23.6 | 1.79 | 1.312 | 76.0 | 0.715 | 3.213 | 33.7 | 188.8 | --- | 5.512 | -0.56 | 0.250 | 69.5 | 358.0 | -0.7 | 0.204 |
| 4-4230 | 4-5490 | 0.407 | 133.4 | 23.5 | 1.83 | 1.313 | 76.4 | 0.715 | 3.223 | 32.8 | 189.4 | --- | 5.528 | -0.60 | 0.252 | 68.4 | 358.2 | -0.8 | 0.206 |
| 4-4230 | 4-5510 | 0.402 | 134.6 | 23.4 | 1.87 | 1.313 | 76.8 | 0.715 | 3.233 | 31.8 | 190.0 | --- | 5.544 | -0.64 | 0.255 | 67.3 | 358.4 | -0.8 | 0.208 |
| 4-4230 | 4-5530 | 0.397 | 135.8 | 23.3 | 1.93 | 1.313 | 77.2 | 0.715 | 3.244 | 30.8 | 190.5 | --- | 5.561 | -0.68 | 0.258 | 66.3 | 358.7 | -0.8 | 0.209 |
| 4-4230 | 4-5550 | 0.392 | 137.2 | 23.2 | 1.98 | 1.314 | 77.7 | 0.714 | 3.254 | 29.8 | 191.1 | --- | 5.579 | -0.74 | 0.261 | 65.3 | 359.1 | -0.9 | 0.211 |
| 4-4230 | 4-5570 | 0.387 | 138.5 | 23.2 | 2.05 | 1.314 | 78.1 | 0.714 | 3.266 | 28.7 | 191.6 | --- | 5.598 | -0.81 | 0.263 | 64.4 | 359.5 | -0.9 | 0.213 |
| 4-4230 | 4-5590 | 0.382 | 140.0 | 23.2 | 2.14 | 1.315 | 78.5 | 0.714 | 3.277 | 27.7 | 192.2 | --- | 5.617 | -0.89 | 0.266 | 63.5 | 359.9 | -1.0 | 0.215 |
| 4-4230 | 4-5610 | 0.378 | 141.5 | 23.2 | 2.24 | 1.315 | 79.0 | 0.714 | 3.288 | 26.6 | 192.7 | --- | 5.637 | -0.98 | 0.269 | 62.6 | 0.4 | -1.1 | 0.217 |
| 4-4230 | 4-5630 | 0.373 | 143.0 | 23.3 | 2.37 | 1.315 | 79.4 | 0.714 | 3.300 | 25.5 | 193.2 | --- | 5.657 | -1.11 | 0.272 | 61.8 | 1.0 | -1.2 | 0.219 |
| 4-4230 | 4-5650 | 0.369 | 144.7 | 23.5 | 2.53 | 1.316 | 79.8 | 0.714 | 3.312 | 24.5 | 193.7 | --- | 5.677 | -1.27 | 0.275 | 61.0 | 1.6 | -1.3 | 0.221 |
| 4-4230 | 4-5670 | 0.365 | 146.5 | 23.9 | 2.76 | 1.316 | 80.3 | 0.714 | 3.324 | 23.4 | 194.3 | --- | 5.698 | -1.49 | 0.278 | 60.3 | 2.2 | -1.5 | 0.223 |
| 4-4230 | 4-5690 | 0.361 | 148.5 | 24.6 | 3.08 | 1.317 | 80.8 | 0.714 | 3.337 | 22.2 | 194.7 | --- | 5.720 | -1.81 | 0.281 | 59.5 | 2.9 | -1.8 | 0.226 |
| 4-4230 | 4-5710 | 0.358 | 150.8 | 25.9 | 3.58 | 1.317 | 81.2 | 0.714 | 3.349 | 21.1 | 195.2 | --- | 5.742 | -2.31 | 0.283 | 58.9 | 3.7 | -2.3 | 0.228 |
| 4-4230 | 4-5730 | 0.358 | 153.6 | 28.5 | 4.45 | 1.317 | 81.7 | 0.715 | 3.362 | 20.0 | 195.7 | --- | 5.764 | -3.17 | 0.286 | 58.2 | 4.5 | -3.1 | 0.230 |
| 4-4230 | 4-5750 | 0.366 | 158.1 | 34.4 | 6.37 | 1.318 | 82.2 | 0.715 | 3.374 | 18.8 | 196.2 | --- | 5.787 | -5.10 | 0.289 | 57.5 | 5.5 | -5.0 | 0.234 |
| 4-4230 | 4-5770 | 0.442 | 172.6 | 55.3 | 14.21 | 1.318 | 82.6 | 0.715 | 3.387 | 17.7 | 196.6 | --- | 5.810 | -12.93 | 0.292 | 56.9 | 7.4 | -12.5 | 0.245 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4230 | 4-5790 | 0.527 | 122.5 | -42.0 | -20.33 | 1.319 | 83.1 | 0.716 | 3.400 | 16.4 | 197.1 | --- | 5.833 | 21.62 | 0.295 | 56.3 | 8.0 | 20.3 | 0.266 |
| 4-4230 | 4-5810 | 0.344 | 147.7 | -6.6 | -4.77 | 1.319 | 83.6 | 0.716 | 3.413 | 15.3 | 197.5 | --- | 5.857 | 6.06 | 0.297 | 55.8 | 7.5 | 6.6 | 0.241 |
| 4-4230 | 4-5830 | 0.330 | 153.1 | 1.7 | -2.21 | 1.320 | 84.1 | 0.717 | 3.426 | 14.1 | 198.0 | --- | 5.881 | 3.51 | 0.300 | 55.2 | 8.4 | 4.0 | 0.242 |
| 4-4240 | 4-4600 | 0.724 | 124.1 | 22.1 | 1.30 | 1.448 | 62.3 | 1.04915 | 3.739 | 53.9 | 132.4 | --- | --- | -0.01 | 0.656 | 159.3 | 24.8 | 1.3 | 0.637 |
| 4-4240 | 4-4620 | 0.712 | 122.7 | 22.4 | 1.30 | 1.428 | 62.2 | 1.00493 | 3.955 | 55.6 | 135.6 | --- | --- | -0.01 | 0.610 | 158.1 | 24.6 | 1.3 | 0.592 |
| 4-4240 | 4-4640 | 0.702 | 121.5 | 22.7 | 1.30 | 1.411 | 62.0 | 0.96722 | 3.931 | 57.0 | 138.5 | --- | --- | -0.01 | 0.569 | 156.7 | 24.4 | 1.3 | 0.553 |
| 4-4240 | 4-4660 | 0.693 | 120.4 | 22.9 | 1.30 | 1.396 | 61.9 | 0.93611 | 3.800 | 58.3 | 141.4 | --- | --- | -0.01 | 0.531 | 155.3 | 24.2 | 1.3 | 0.517 |
| 4-4240 | 4-4680 | 0.685 | 119.5 | 23.0 | 1.30 | 1.384 | 61.8 | 0.910 | 3.364 | 59.4 | 144.0 | --- | --- | -0.01 | 0.497 | 153.7 | 23.8 | 1.2 | 0.485 |
| 4-4240 | 4-4700 | 0.679 | 118.8 | 23.2 | 1.30 | 1.373 | 61.8 | 0.888 | 3.705 | 60.4 | 146.5 | --- | --- | -0.01 | 0.467 | 152.1 | 23.4 | 1.2 | 0.456 |
| 4-4240 | 4-4720 | 0.673 | 118.1 | 23.3 | 1.31 | 1.364 | 61.7 | 0.870 | 5.734 | 61.2 | 148.8 | --- | --- | -0.01 | 0.439 | 150.4 | 23.0 | 1.2 | 0.429 |
| 4-4240 | 4-4740 | 0.667 | 117.6 | 23.4 | 1.31 | 1.356 | 61.7 | 0.854 | 5.102 | 61.9 | 151.0 | --- | --- | -0.01 | 0.413 | 148.6 | 22.5 | 1.2 | 0.405 |
| 4-4240 | 4-4760 | 0.662 | 117.2 | 23.5 | 1.31 | 1.349 | 61.8 | 0.841 | 4.661 | 62.5 | 153.1 | --- | --- | -0.01 | 0.390 | 146.7 | 21.9 | 1.1 | 0.383 |
| 4-4240 | 4-4780 | 0.657 | 116.9 | 23.5 | 1.31 | 1.343 | 61.8 | 0.829 | 4.338 | 62.9 | 155.0 | --- | --- | -0.01 | 0.369 | 144.7 | 21.3 | 1.1 | 0.363 |
| 4-4240 | 4-4800 | 0.652 | 116.6 | 23.6 | 1.31 | 1.338 | 61.9 | 0.819 | 4.094 | 63.2 | 156.8 | --- | --- | -0.01 | 0.350 | 142.6 | 20.6 | 1.1 | 0.345 |
| 4-4240 | 4-4820 | 0.648 | 116.5 | 23.6 | 1.31 | 1.333 | 62.0 | 0.810 | 3.904 | 63.4 | 158.6 | --- | --- | -0.01 | 0.332 | 140.3 | 19.8 | 1.0 | 0.329 |
| 4-4240 | 4-4840 | 0.643 | 116.4 | 23.7 | 1.31 | 1.330 | 62.1 | 0.803 | 3.754 | 63.5 | 160.2 | --- | --- | -0.01 | 0.317 | 138.0 | 19.0 | 1.0 | 0.314 |
| 4-4240 | 4-4860 | 0.639 | 116.3 | 23.7 | 1.31 | 1.326 | 62.2 | 0.796 | 3.634 | 63.6 | 161.7 | --- | --- | -0.01 | 0.303 | 135.6 | 18.1 | 0.9 | 0.300 |
| 4-4240 | 4-4880 | 0.634 | 116.4 | 23.7 | 1.31 | 1.323 | 62.4 | 0.790 | 3.536 | 63.5 | 163.2 | --- | --- | -0.01 | 0.290 | 133.1 | 17.2 | 0.9 | 0.287 |
| 4-4240 | 4-4900 | 0.629 | 116.4 | 23.7 | 1.31 | 1.321 | 62.6 | 0.785 | 3.455 | 63.4 | 164.6 | --- | --- | -0.01 | 0.278 | 130.6 | 16.2 | 0.9 | 0.276 |
| 4-4240 | 4-4920 | 0.625 | 116.6 | 23.7 | 1.31 | 1.319 | 62.7 | 0.780 | 3.389 | 63.2 | 165.9 | --- | --- | -0.01 | 0.268 | 127.9 | 15.2 | 0.8 | 0.266 |
| 4-4240 | 4-4940 | 0.620 | 116.7 | 23.7 | 1.31 | 1.317 | 62.9 | 0.775 | 3.334 | 63.0 | 167.2 | --- | --- | -0.01 | 0.259 | 125.2 | 14.1 | 0.7 | 0.257 |
| 4-4240 | 4-4960 | 0.616 | 116.9 | 23.7 | 1.31 | 1.315 | 63.2 | 0.771 | 3.288 | 62.7 | 168.4 | --- | --- | -0.01 | 0.251 | 122.4 | 13.0 | 0.7 | 0.249 |
| 4-4240 | 4-4980 | 0.611 | 117.2 | 23.7 | 1.31 | 1.314 | 63.4 | 0.768 | 3.251 | 62.3 | 169.5 | --- | --- | -0.01 | 0.244 | 119.6 | 11.9 | 0.6 | 0.241 |
| 4-4240 | 4-5000 | 0.606 | 117.5 | 23.6 | 1.31 | 1.313 | 63.6 | 0.765 | 3.219 | 61.9 | 170.6 | --- | --- | -0.01 | 0.238 | 116.8 | 10.8 | 0.6 | 0.235 |
| 4-4240 | 4-5020 | 0.601 | 117.8 | 23.6 | 1.31 | 1.312 | 63.9 | 0.762 | 3.193 | 61.5 | 171.7 | --- | --- | -0.01 | 0.233 | 114.0 | 9.7 | 0.5 | 0.229 |
| 4-4240 | 4-5040 | 0.596 | 118.1 | 23.6 | 1.31 | 1.311 | 64.1 | 0.759 | 3.172 | 61.0 | 172.7 | --- | --- | -0.01 | 0.229 | 111.2 | 8.6 | 0.5 | 0.224 |
| 4-4240 | 4-5060 | 0.591 | 118.5 | 23.5 | 1.31 | 1.310 | 64.4 | 0.756 | 3.155 | 60.4 | 173.7 | --- | --- | -0.01 | 0.225 | 108.4 | 7.5 | 0.4 | 0.220 |
| 4-4240 | 4-5080 | 0.586 | 118.9 | 23.5 | 1.31 | 1.310 | 64.7 | 0.754 | 3.141 | 59.9 | 174.7 | --- | --- | -0.01 | 0.222 | 105.7 | 6.5 | 0.3 | 0.216 |
| 4-4240 | 4-5100 | 0.581 | 119.4 | 23.4 | 1.31 | 1.309 | 65.0 | 0.752 | 3.130 | 59.3 | 175.6 | --- | --- | -0.01 | 0.220 | 103.0 | 5.5 | 0.3 | 0.213 |
| 4-4240 | 4-5120 | 0.575 | 119.8 | 23.4 | 1.31 | 1.309 | 65.3 | 0.750 | 3.121 | 58.6 | 176.5 | --- | --- | -0.01 | 0.219 | 100.4 | 4.5 | 0.2 | 0.210 |
| 4-4240 | 4-5140 | 0.570 | 120.3 | 23.3 | 1.31 | 1.309 | 65.6 | 0.748 | 3.115 | 58.0 | 177.3 | --- | --- | -0.01 | 0.218 | 97.8 | 3.5 | 0.2 | 0.207 |
| 4-4240 | 4-5160 | 0.564 | 120.9 | 23.2 | 1.31 | 1.309 | 65.9 | 0.746 | 3.111 | 57.3 | 178.2 | --- | --- | -0.01 | 0.217 | 95.3 | 2.6 | 0.1 | 0.206 |
| 4-4240 | 4-5180 | 0.559 | 121.4 | 23.2 | 1.31 | 1.309 | 66.2 | 0.744 | 3.109 | 56.6 | 179.0 | --- | --- | -0.01 | 0.217 | 92.9 | 1.8 | 0.1 | 0.204 |
| 4-4240 | 4-5200 | 0.553 | 122.0 | 23.1 | 1.31 | 1.309 | 66.6 | 0.743 | 3.109 | 55.8 | 179.8 | --- | --- | -0.01 | 0.218 | 90.6 | 1.1 | 0.0 | 0.203 |
| 4-4240 | 4-5220 | 0.548 | 122.6 | 23.0 | 1.31 | 1.309 | 66.9 | 0.741 | 3.110 | 55.1 | 180.5 | --- | 5.415 | -0.01 | 0.219 | 88.4 | 0.4 | 0.0 | 0.202 |
| 4-4240 | 4-5240 | 0.542 | 123.2 | 22.9 | 1.31 | 1.309 | 67.2 | 0.740 | 3.112 | 54.3 | 181.3 | --- | 5.414 | -0.01 | 0.220 | 86.3 | 359.7 | -0.0 | 0.202 |
| 4-4240 | 4-5260 | 0.536 | 123.8 | 22.8 | 1.31 | 1.309 | 67.6 | 0.739 | 3.115 | 53.5 | 182.0 | --- | 5.415 | -0.01 | 0.221 | 84.3 | 359.2 | -0.1 | 0.202 |
| 4-4240 | 4-5280 | 0.530 | 124.5 | 22.7 | 1.31 | 1.309 | 68.0 | 0.737 | 3.119 | 52.6 | 182.7 | --- | 5.419 | -0.01 | 0.223 | 82.4 | 358.7 | -0.1 | 0.202 |
| 4-4240 | 4-5300 | 0.524 | 125.2 | 22.6 | 1.31 | 1.309 | 68.3 | 0.736 | 3.124 | 51.8 | 183.4 | --- | 5.424 | -0.01 | 0.225 | 80.6 | 358.3 | -0.1 | 0.202 |
| 4-4240 | 4-5320 | 0.519 | 125.9 | 22.5 | 1.31 | 1.309 | 68.7 | 0.735 | 3.130 | 50.9 | 184.1 | --- | 5.431 | -0.01 | 0.227 | 78.8 | 357.9 | -0.1 | 0.202 |
| 4-4240 | 4-5340 | 0.513 | 126.7 | 22.4 | 1.31 | 1.310 | 69.1 | 0.734 | 3.137 | 50.0 | 184.8 | --- | 5.439 | -0.01 | 0.229 | 77.2 | 357.7 | -0.1 | 0.203 |
| 4-4240 | 4-5360 | 0.507 | 127.4 | 22.3 | 1.31 | 1.310 | 69.5 | 0.733 | 3.144 | 49.1 | 185.4 | --- | 5.449 | -0.01 | 0.231 | 75.6 | 357.5 | -0.1 | 0.204 |
| 4-4240 | 4-5380 | 0.501 | 128.2 | 22.1 | 1.31 | 1.310 | 69.8 | 0.732 | 3.152 | 48.2 | 186.1 | --- | 5.460 | -0.01 | 0.234 | 74.2 | 357.4 | -0.2 | 0.205 |
| 4-4240 | 4-5400 | 0.494 | 129.0 | 22.0 | 1.31 | 1.311 | 70.2 | 0.731 | 3.161 | 47.3 | 186.7 | --- | 5.472 | -0.01 | 0.236 | 72.7 | 357.3 | -0.2 | 0.206 |
| 4-4240 | 4-5420 | 0.488 | 129.9 | 21.8 | 1.31 | 1.311 | 70.6 | 0.730 | 3.170 | 46.3 | 187.3 | --- | 5.485 | -0.01 | 0.239 | 71.4 | 357.3 | -0.2 | 0.207 |
| 4-4240 | 4-5440 | 0.482 | 130.7 | 21.7 | 1.31 | 1.311 | 71.0 | 0.730 | 3.180 | 45.4 | 187.9 | --- | 5.499 | -0.01 | 0.242 | 70.1 | 357.4 | -0.2 | 0.208 |
| 4-4240 | 4-5460 | 0.476 | 131.6 | 21.5 | 1.31 | 1.312 | 71.5 | 0.729 | 3.190 | 44.4 | 188.5 | --- | 5.514 | -0.01 | 0.245 | 68.9 | 357.5 | -0.1 | 0.210 |
| 4-4240 | 4-5480 | 0.470 | 132.6 | 21.3 | 1.31 | 1.312 | 71.9 | 0.728 | 3.200 | 43.4 | 189.1 | --- | 5.530 | -0.01 | 0.247 | 67.8 | 357.7 | -0.1 | 0.211 |
| 4-4240 | 4-5500 | 0.464 | 133.5 | 21.1 | 1.31 | 1.312 | 72.3 | 0.727 | 3.211 | 42.4 | 189.6 | --- | 5.546 | -0.01 | 0.250 | 66.7 | 358.0 | -0.1 | 0.213 |
| 4-4240 | 4-5520 | 0.458 | 134.5 | 20.9 | 1.32 | 1.313 | 72.7 | 0.727 | 3.222 | 41.4 | 190.2 | --- | 5.563 | -0.01 | 0.253 | 65.7 | 358.3 | -0.1 | 0.214 |
| 4-4240 | 4-5540 | 0.451 | 135.5 | 20.7 | 1.32 | 1.313 | 73.1 | 0.726 | 3.233 | 40.4 | 190.7 | --- | 5.581 | -0.01 | 0.256 | 64.7 | 358.6 | -0.1 | 0.216 |
| 4-4240 | 4-5560 | 0.445 | 136.5 | 20.5 | 1.32 | 1.314 | 73.6 | 0.726 | 3.244 | 39.3 | 191.3 | --- | 5.599 | -0.01 | 0.259 | 63.8 | 359.0 | -0.1 | 0.218 |
| 4-4240 | 4-5580 | 0.439 | 137.6 | 20.3 | 1.32 | 1.314 | 74.0 | 0.725 | 3.256 | 38.3 | 191.8 | --- | 5.618 | -0.01 | 0.262 | 62.9 | 359.5 | -0.0 | 0.219 |
| 4-4240 | 4-5600 | 0.433 | 138.7 | 20.0 | 1.32 | 1.315 | 74.5 | 0.725 | 3.268 | 37.2 | 192.3 | --- | 5.637 | -0.01 | 0.265 | 62.1 | 360.0 | -0.0 | 0.221 |
| 4-4240 | 4-5620 | 0.427 | 139.9 | 19.7 | 1.32 | 1.315 | 74.9 | 0.724 | 3.281 | 36.1 | 192.8 | --- | 5.657 | -0.01 | 0.268 | 61.3 | 0.5 | 0.0 | 0.223 |
| 4-4240 | 4-5640 | 0.421 | 141.0 | 19.5 | 1.32 | 1.315 | 75.4 | 0.724 | 3.293 | 35.0 | 193.4 | --- | 5.678 | -0.02 | 0.271 | 60.5 | 1.1 | 0.0 | 0.225 |
| 4-4240 | 4-5660 | 0.415 | 142.3 | 19.2 | 1.32 | 1.316 | 75.8 | 0.724 | 3.306 | 33.9 | 193.8 | --- | 5.698 | -0.02 | 0.274 | 59.8 | 1.8 | 0.1 | 0.227 |
| 4-4240 | 4-5680 | 0.409 | 143.5 | 18.8 | 1.32 | 1.316 | 76.3 | 0.724 | 3.318 | 32.8 | 194.3 | --- | 5.720 | -0.02 | 0.277 | 59.1 | 2.4 | 0.1 | 0.229 |
| 4-4240 | 4-5700 | 0.403 | 144.8 | 18.5 | 1.32 | 1.317 | 76.8 | 0.723 | 3.331 | 31.7 | 194.8 | --- | 5.741 | -0.02 | 0.280 | 58.4 | 3.1 | 0.1 | 0.231 |
| 4-4240 | 4-5720 | 0.397 | 146.1 | 18.1 | 1.33 | 1.317 | 77.2 | 0.723 | 3.344 | 30.6 | 195.3 | --- | 5.763 | -0.02 | 0.283 | 57.7 | 3.9 | 0.2 | 0.233 |
| 4-4240 | 4-5740 | 0.391 | 147.5 | 17.8 | 1.33 | 1.318 | 77.7 | 0.723 | 3.358 | 29.4 | 195.8 | --- | 5.785 | -0.02 | 0.286 | 57.1 | 4.7 | 0.2 | 0.235 |
| 4-4240 | 4-5760 | 0.386 | 148.9 | 17.4 | 1.33 | 1.318 | 78.2 | 0.723 | 3.371 | 28.3 | 196.2 | --- | 5.808 | -0.03 | 0.289 | 56.5 | 5.5 | 0.3 | 0.237 |
| 4-4240 | 4-5780 | 0.380 | 150.4 | 17.0 | 1.34 | 1.319 | 78.7 | 0.723 | 3.384 | 27.1 | 196.7 | --- | 5.831 | -0.03 | 0.292 | 56.0 | 6.3 | 0.3 | 0.239 |
| 4-4240 | 4-5800 | 0.374 | 151.9 | 16.5 | 1.34 | 1.319 | 79.2 | 0.723 | 3.398 | 25.9 | 197.1 | --- | 5.854 | -0.04 | 0.295 | 55.4 | 7.2 | 0.3 | 0.241 |
| 4-4240 | 4-5820 | 0.369 | 153.4 | 16.1 | 1.35 | 1.319 | 79.7 | 0.723 | 3.411 | 24.7 | 197.6 | --- | 5.877 | -0.05 | 0.298 | 54.9 | 8.1 | 0.4 | 0.243 |
| 4-4240 | 4-5840 | 0.364 | 155.0 | 15.6 | 1.37 | 1.320 | 80.2 | 0.723 | 3.425 | 23.5 | 198.0 | --- | 5.901 | -0.06 | 0.301 | 54.4 | 9.0 | 0.4 | 0.245 |
| 4-4250 | 4-4610 | 0.830 | 124.2 | 21.7 | 1.37 | 1.437 | 55.4 | 1.02033 | 3.457 | 68.4 | 137.5 | --- | --- | 0.24 | 0.630 | 160.2 | 23.4 | 1.3 | 0.622 |
| 4-4250 | 4-4630 | 0.817 | 123.2 | 21.9 | 1.37 | 1.417 | 55.4 | 0.98440 | 3.290 | 69.9 | 140.4 | --- | --- | 0.24 | 0.585 | 158.9 | 23.1 | 1.3 | 0.580 |
| 4-4250 | 4-4650 | 0.805 | 122.4 | 22.1 | 1.36 | 1.401 | 55.4 | 0.95414 | 3.164 | 71.1 | 143.2 | --- | --- | 0.24 | 0.544 | 157.5 | 22.8 | 1.3 | 0.541 |
| 4-4250 | 4-4670 | 0.795 | 121.6 | 22.2 | 1.35 | 1.387 | 55.4 | 0.929 | 3.166 | 72.2 | 145.8 | --- | --- | 0.23 | 0.508 | 156.1 | 22.5 | 1.3 | 0.507 |
| 4-4250 | 4-4690 | 0.786 | 121.0 | 22.4 | 1.35 | 1.376 | 55.5 | 0.908 | 7.061 | 73.2 | 148.3 | --- | --- | 0.23 | 0.475 | 154.5 | 22.0 | 1.3 | 0.476 |
| 4-4250 | 4-4710 | 0.778 | 120.6 | 22.5 | 1.34 | 1.365 | 55.5 | 0.890 | 5.910 | 73.9 | 150.5 | --- | --- | 0.23 | 0.445 | 152.8 | 21.5 | 1.2 | 0.448 |
| 4-4250 | 4-4730 | 0.771 | 120.2 | 22.5 | 1.33 | 1.357 | 55.6 | 0.875 | 5.189 | 74.5 | 152.7 | --- | --- | 0.23 | 0.417 | 151.0 | 21.0 | 1.2 | 0.422 |
| 4-4250 | 4-4750 | 0.764 | 119.9 | 22.6 | 1.33 | 1.349 | 55.7 | 0.863 | 4.699 | 75.0 | 154.6 | --- | --- | 0.23 | 0.392 | 149.2 | 20.4 | 1.2 | 0.399 |
| 4-4250 | 4-4770 | 0.758 | 119.7 | 22.6 | 1.32 | 1.343 | 55.9 | 0.851 | 4.348 | 75.3 | 156.5 | --- | --- | 0.23 | 0.370 | 147.2 | 19.7 | 1.2 | 0.378 |
| 4-4250 | 4-4790 | 0.751 | 119.5 | 22.7 | 1.31 | 1.338 | 56.0 | 0.842 | 4.086 | 75.6 | 158.2 | --- | --- | 0.23 | 0.349 | 145.1 | 18.9 | 1.1 | 0.359 |
| 4-4250 | 4-4810 | 0.745 | 119.4 | 22.7 | 1.31 | 1.333 | 56.2 | 0.833 | 3.885 | 75.7 | 159.9 | --- | --- | 0.23 | 0.331 | 142.8 | 18.2 | 1.1 | 0.342 |
| 4-4250 | 4-4830 | 0.739 | 119.4 | 22.7 | 1.30 | 1.329 | 56.4 | 0.826 | 3.727 | 75.7 | 161.4 | --- | --- | 0.23 | 0.314 | 140.5 | 17.3 | 1.1 | 0.326 |
| 4-4250 | 4-4850 | 0.734 | 119.4 | 22.7 | 1.30 | 1.325 | 56.6 | 0.819 | 3.602 | 75.7 | 162.9 | --- | --- | 0.23 | 0.298 | 138.1 | 16.4 | 1.0 | 0.312 |
| 4-4250 | 4-4870 | 0.728 | 119.5 | 22.7 | 1.29 | 1.322 | 56.8 | 0.814 | 3.500 | 75.5 | 164.2 | --- | --- | 0.23 | 0.285 | 135.5 | 15.5 | 1.0 | 0.299 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4250 | 4-4890 | 0.722 | 119.6 | 22.7 | 1.28 | 1.320 | 57.0 | 0.808 | 3.417 | 75.3 | 165.6 | --- | --- | 0.23 | 0.272 | 132.9 | 14.5 | 0.9 | 0.288 |
| 4-4250 | 4-4910 | 0.717 | 119.8 | 22.6 | 1.28 | 1.317 | 57.3 | 0.803 | 3.350 | 75.1 | 166.8 | --- | --- | 0.23 | 0.261 | 130.1 | 13.5 | 0.9 | 0.277 |
| 4-4250 | 4-4930 | 0.711 | 120.0 | 22.6 | 1.27 | 1.315 | 57.5 | 0.799 | 3.294 | 74.7 | 168.0 | --- | --- | 0.23 | 0.252 | 127.3 | 12.4 | 0.8 | 0.268 |
| 4-4250 | 4-4950 | 0.705 | 120.2 | 22.6 | 1.27 | 1.314 | 57.8 | 0.795 | 3.248 | 74.4 | 169.1 | --- | --- | 0.23 | 0.243 | 124.4 | 11.4 | 0.8 | 0.259 |
| 4-4250 | 4-4970 | 0.699 | 120.4 | 22.5 | 1.26 | 1.312 | 58.0 | 0.791 | 3.209 | 73.9 | 170.2 | --- | --- | 0.23 | 0.236 | 121.5 | 10.3 | 0.7 | 0.252 |
| 4-4250 | 4-4990 | 0.694 | 120.7 | 22.5 | 1.26 | 1.311 | 58.3 | 0.788 | 3.178 | 73.5 | 171.2 | --- | --- | 0.23 | 0.229 | 118.5 | 9.2 | 0.7 | 0.245 |
| 4-4250 | 4-5010 | 0.688 | 121.1 | 22.5 | 1.25 | 1.310 | 58.6 | 0.785 | 3.152 | 72.9 | 172.2 | --- | --- | 0.23 | 0.224 | 115.5 | 8.1 | 0.6 | 0.239 |
| 4-4250 | 4-5030 | 0.682 | 121.4 | 22.4 | 1.24 | 1.309 | 58.9 | 0.782 | 3.131 | 72.4 | 173.2 | --- | --- | 0.23 | 0.219 | 112.5 | 7.1 | 0.6 | 0.234 |
| 4-4250 | 4-5050 | 0.676 | 121.8 | 22.3 | 1.24 | 1.309 | 59.2 | 0.779 | 3.114 | 71.8 | 174.1 | --- | --- | 0.23 | 0.216 | 109.5 | 6.0 | 0.5 | 0.229 |
| 4-4250 | 4-5070 | 0.670 | 122.1 | 22.3 | 1.23 | 1.308 | 59.6 | 0.777 | 3.101 | 71.2 | 175.0 | --- | --- | 0.23 | 0.213 | 106.6 | 5.0 | 0.5 | 0.226 |
| 4-4250 | 4-5090 | 0.664 | 122.6 | 22.2 | 1.22 | 1.308 | 59.9 | 0.774 | 3.090 | 70.5 | 175.9 | --- | --- | 0.23 | 0.211 | 103.7 | 4.0 | 0.4 | 0.222 |
| 4-4250 | 4-5110 | 0.658 | 123.0 | 22.1 | 1.22 | 1.307 | 60.2 | 0.772 | 3.083 | 69.8 | 176.7 | --- | --- | 0.24 | 0.209 | 100.9 | 3.1 | 0.4 | 0.219 |
| 4-4250 | 4-5130 | 0.652 | 123.4 | 22.1 | 1.21 | 1.307 | 60.6 | 0.770 | 3.077 | 69.1 | 177.5 | --- | --- | 0.24 | 0.208 | 98.2 | 2.2 | 0.3 | 0.217 |
| 4-4250 | 4-5150 | 0.646 | 123.9 | 22.0 | 1.20 | 1.307 | 60.9 | 0.768 | 3.074 | 68.4 | 178.3 | --- | --- | 0.24 | 0.208 | 95.5 | 1.4 | 0.3 | 0.215 |
| 4-4250 | 4-5170 | 0.640 | 124.4 | 21.9 | 1.20 | 1.307 | 61.3 | 0.766 | 3.072 | 67.6 | 179.1 | --- | --- | 0.24 | 0.208 | 93.0 | 0.6 | 0.3 | 0.213 |
| 4-4250 | 4-5190 | 0.633 | 124.9 | 21.8 | 1.19 | 1.307 | 61.6 | 0.764 | 3.072 | 66.8 | 179.8 | --- | --- | 0.24 | 0.209 | 90.5 | 359.9 | 0.2 | 0.212 |
| 4-4250 | 4-5210 | 0.627 | 125.4 | 21.7 | 1.18 | 1.307 | 62.0 | 0.762 | 3.074 | 66.0 | 180.6 | --- | 5.417 | 0.25 | 0.210 | 88.2 | 359.3 | 0.2 | 0.211 |
| 4-4250 | 4-5230 | 0.621 | 126.0 | 21.6 | 1.18 | 1.307 | 62.4 | 0.761 | 3.077 | 65.2 | 181.3 | --- | 5.416 | 0.25 | 0.211 | 86.0 | 358.7 | 0.2 | 0.211 |
| 4-4250 | 4-5250 | 0.614 | 126.6 | 21.5 | 1.17 | 1.307 | 62.7 | 0.759 | 3.080 | 64.4 | 182.0 | --- | 5.418 | 0.25 | 0.213 | 83.9 | 358.2 | 0.2 | 0.210 |
| 4-4250 | 4-5270 | 0.608 | 127.1 | 21.4 | 1.16 | 1.308 | 63.1 | 0.757 | 3.085 | 63.5 | 182.6 | --- | 5.422 | 0.26 | 0.214 | 81.8 | 357.8 | 0.1 | 0.210 |
| 4-4250 | 4-5290 | 0.601 | 127.7 | 21.2 | 1.15 | 1.308 | 63.5 | 0.756 | 3.091 | 62.6 | 183.3 | --- | 5.427 | 0.26 | 0.217 | 79.9 | 357.4 | 0.1 | 0.210 |
| 4-4250 | 4-5310 | 0.595 | 128.4 | 21.1 | 1.14 | 1.308 | 63.9 | 0.754 | 3.098 | 61.7 | 183.9 | --- | 5.434 | 0.27 | 0.219 | 78.1 | 357.1 | 0.1 | 0.211 |
| 4-4250 | 4-5330 | 0.588 | 129.0 | 21.0 | 1.14 | 1.308 | 64.3 | 0.753 | 3.105 | 60.8 | 184.6 | --- | 5.443 | 0.27 | 0.221 | 76.4 | 356.9 | 0.1 | 0.211 |
| 4-4250 | 4-5350 | 0.581 | 129.6 | 20.8 | 1.13 | 1.309 | 64.7 | 0.752 | 3.113 | 59.9 | 185.2 | --- | 5.453 | 0.28 | 0.224 | 74.8 | 356.8 | 0.1 | 0.212 |
| 4-4250 | 4-5370 | 0.575 | 130.3 | 20.7 | 1.12 | 1.309 | 65.1 | 0.750 | 3.122 | 59.0 | 185.8 | --- | 5.464 | 0.28 | 0.227 | 73.3 | 356.7 | 0.1 | 0.212 |
| 4-4250 | 4-5390 | 0.568 | 131.0 | 20.5 | 1.11 | 1.309 | 65.5 | 0.749 | 3.131 | 58.0 | 186.4 | --- | 5.476 | 0.29 | 0.229 | 71.9 | 356.7 | 0.1 | 0.213 |
| 4-4250 | 4-5410 | 0.561 | 131.7 | 20.4 | 1.10 | 1.310 | 66.0 | 0.748 | 3.141 | 57.0 | 187.0 | --- | 5.489 | 0.29 | 0.232 | 70.5 | 356.7 | 0.1 | 0.214 |
| 4-4250 | 4-5430 | 0.554 | 132.4 | 20.2 | 1.09 | 1.310 | 66.4 | 0.747 | 3.151 | 56.0 | 187.6 | --- | 5.504 | 0.30 | 0.235 | 69.2 | 356.8 | 0.1 | 0.216 |
| 4-4250 | 4-5450 | 0.547 | 133.2 | 20.0 | 1.08 | 1.311 | 66.8 | 0.746 | 3.161 | 55.1 | 188.2 | --- | 5.518 | 0.31 | 0.238 | 68.0 | 357.0 | 0.2 | 0.217 |
| 4-4250 | 4-5470 | 0.541 | 134.0 | 19.8 | 1.06 | 1.311 | 67.2 | 0.745 | 3.172 | 54.1 | 188.7 | --- | 5.534 | 0.32 | 0.241 | 66.9 | 357.2 | 0.2 | 0.218 |
| 4-4250 | 4-5490 | 0.534 | 134.7 | 19.6 | 1.05 | 1.311 | 67.7 | 0.744 | 3.183 | 53.0 | 189.3 | --- | 5.551 | 0.33 | 0.245 | 65.8 | 357.4 | 0.2 | 0.219 |
| 4-4250 | 4-5510 | 0.527 | 135.6 | 19.4 | 1.04 | 1.312 | 68.1 | 0.743 | 3.195 | 52.0 | 189.8 | --- | 5.568 | 0.34 | 0.248 | 64.7 | 357.8 | 0.2 | 0.221 |
| 4-4250 | 4-5530 | 0.520 | 136.4 | 19.2 | 1.02 | 1.312 | 68.6 | 0.742 | 3.207 | 51.0 | 190.3 | --- | 5.585 | 0.35 | 0.251 | 63.8 | 358.1 | 0.3 | 0.222 |
| 4-4250 | 4-5550 | 0.513 | 137.2 | 18.9 | 1.01 | 1.313 | 69.0 | 0.741 | 3.219 | 49.9 | 190.9 | --- | 5.604 | 0.36 | 0.254 | 62.9 | 358.6 | 0.3 | 0.224 |
| 4-4250 | 4-5570 | 0.506 | 138.1 | 18.7 | 0.99 | 1.313 | 69.5 | 0.740 | 3.231 | 48.8 | 191.4 | --- | 5.622 | 0.37 | 0.257 | 62.0 | 359.0 | 0.3 | 0.226 |
| 4-4250 | 4-5590 | 0.499 | 139.0 | 18.4 | 0.97 | 1.314 | 69.9 | 0.739 | 3.244 | 47.8 | 191.9 | --- | 5.642 | 0.38 | 0.260 | 61.2 | 359.6 | 0.4 | 0.227 |
| 4-4250 | 4-5610 | 0.492 | 139.9 | 18.1 | 0.96 | 1.314 | 70.4 | 0.738 | 3.257 | 46.7 | 192.4 | --- | 5.661 | 0.40 | 0.264 | 60.4 | 0.1 | 0.4 | 0.229 |
| 4-4250 | 4-5630 | 0.485 | 140.8 | 17.8 | 0.93 | 1.315 | 70.8 | 0.738 | 3.270 | 45.6 | 192.9 | --- | 5.682 | 0.42 | 0.267 | 59.6 | 0.7 | 0.5 | 0.231 |
| 4-4250 | 4-5650 | 0.478 | 141.8 | 17.5 | 0.91 | 1.315 | 71.3 | 0.737 | 3.283 | 44.5 | 193.4 | --- | 5.702 | 0.44 | 0.270 | 58.9 | 1.3 | 0.5 | 0.232 |
| 4-4250 | 4-5670 | 0.471 | 142.8 | 17.2 | 0.89 | 1.315 | 71.8 | 0.736 | 3.296 | 43.4 | 193.9 | --- | 5.723 | 0.46 | 0.273 | 58.2 | 2.0 | 0.6 | 0.234 |
| 4-4250 | 4-5690 | 0.464 | 143.8 | 16.8 | 0.86 | 1.316 | 72.2 | 0.736 | 3.310 | 42.2 | 194.4 | --- | 5.744 | 0.48 | 0.276 | 57.6 | 2.7 | 0.6 | 0.236 |
| 4-4250 | 4-5710 | 0.457 | 144.9 | 16.4 | 0.83 | 1.316 | 72.7 | 0.735 | 3.323 | 41.1 | 194.8 | --- | 5.766 | 0.51 | 0.279 | 57.0 | 3.5 | 0.7 | 0.238 |
| 4-4250 | 4-5730 | 0.450 | 145.9 | 16.0 | 0.80 | 1.317 | 73.2 | 0.734 | 3.337 | 40.0 | 195.3 | --- | 5.788 | 0.54 | 0.282 | 56.4 | 4.3 | 0.8 | 0.240 |
| 4-4250 | 4-5750 | 0.443 | 147.0 | 15.6 | 0.76 | 1.317 | 73.7 | 0.734 | 3.351 | 38.8 | 195.8 | --- | 5.810 | 0.58 | 0.285 | 55.8 | 5.1 | 0.8 | 0.241 |
| 4-4250 | 4-5770 | 0.437 | 148.1 | 15.1 | 0.71 | 1.318 | 74.2 | 0.733 | 3.365 | 37.6 | 196.2 | --- | 5.833 | 0.62 | 0.289 | 55.3 | 5.9 | 0.9 | 0.243 |
| 4-4250 | 4-5790 | 0.430 | 149.3 | 14.6 | 0.66 | 1.318 | 74.7 | 0.733 | 3.379 | 36.4 | 196.7 | --- | 5.855 | 0.67 | 0.292 | 54.8 | 6.8 | 1.0 | 0.245 |
| 4-4250 | 4-5810 | 0.423 | 150.4 | 14.0 | 0.60 | 1.319 | 75.2 | 0.733 | 3.393 | 35.3 | 197.1 | --- | 5.878 | 0.72 | 0.295 | 54.3 | 7.7 | 1.1 | 0.247 |
| 4-4250 | 4-5830 | 0.416 | 151.6 | 13.4 | 0.53 | 1.319 | 75.7 | 0.732 | 3.407 | 34.1 | 197.5 | --- | 5.902 | 0.79 | 0.297 | 53.8 | 8.6 | 1.2 | 0.249 |
| 4-4250 | 4-5850 | 0.410 | 152.8 | 12.7 | 0.44 | 1.320 | 76.2 | 0.732 | 3.421 | 32.8 | 198.0 | --- | 5.925 | 0.88 | 0.300 | 53.4 | 9.6 | 1.4 | 0.251 |
| 4-4260 | 4-4620 | 0.944 | 125.8 | 21.1 | 1.49 | 1.425 | 48.3 | 0.999 | 70.613 | 83.5 | 143.1 | --- | --- | 0.52 | 0.604 | 161.5 | 21.7 | 1.3 | 0.611 |
| 4-4260 | 4-4640 | 0.929 | 125.1 | 21.2 | 1.47 | 1.407 | 48.4 | 0.971 | 18.657 | 84.6 | 145.8 | --- | --- | 0.51 | 0.560 | 160.1 | 21.3 | 1.3 | 0.570 |
| 4-4260 | 4-4660 | 0.916 | 124.5 | 21.4 | 1.46 | 1.391 | 48.6 | 0.948 | 10.356 | 85.6 | 148.3 | --- | --- | 0.51 | 0.520 | 158.8 | 20.9 | 1.3 | 0.533 |
| 4-4260 | 4-4680 | 0.904 | 124.1 | 21.5 | 1.44 | 1.378 | 48.8 | 0.928 | 7.541 | 86.4 | 150.6 | --- | --- | 0.50 | 0.484 | 157.3 | 20.4 | 1.3 | 0.499 |
| 4-4260 | 4-4700 | 0.893 | 123.8 | 21.5 | 1.43 | 1.367 | 49.0 | 0.912 | 6.134 | 87.1 | 152.8 | --- | --- | 0.49 | 0.451 | 155.6 | 19.9 | 1.2 | 0.470 |
| 4-4260 | 4-4720 | 0.883 | 123.5 | 21.6 | 1.41 | 1.358 | 49.2 | 0.898 | 5.297 | 87.6 | 154.8 | --- | --- | 0.49 | 0.422 | 153.9 | 19.3 | 1.2 | 0.443 |
| 4-4260 | 4-4740 | 0.874 | 123.3 | 21.6 | 1.40 | 1.350 | 49.4 | 0.887 | 4.747 | 87.9 | 156.6 | --- | --- | 0.48 | 0.395 | 152.1 | 18.6 | 1.2 | 0.418 |
| 4-4260 | 4-4760 | 0.866 | 123.2 | 21.6 | 1.39 | 1.343 | 49.6 | 0.876 | 4.361 | 88.1 | 158.3 | --- | --- | 0.48 | 0.371 | 150.1 | 17.9 | 1.2 | 0.396 |
| 4-4260 | 4-4780 | 0.857 | 123.1 | 21.6 | 1.37 | 1.337 | 49.8 | 0.867 | 4.078 | 88.2 | 159.9 | --- | --- | 0.47 | 0.348 | 148.1 | 17.1 | 1.1 | 0.376 |
| 4-4260 | 4-4800 | 0.850 | 123.1 | 21.6 | 1.36 | 1.332 | 50.1 | 0.859 | 3.863 | 88.2 | 161.5 | --- | --- | 0.47 | 0.328 | 145.9 | 16.3 | 1.1 | 0.358 |
| 4-4260 | 4-4820 | 0.842 | 123.1 | 21.6 | 1.35 | 1.327 | 50.3 | 0.852 | 3.697 | 88.1 | 162.9 | --- | --- | 0.47 | 0.310 | 143.5 | 15.5 | 1.1 | 0.342 |
| 4-4260 | 4-4840 | 0.835 | 123.2 | 21.6 | 1.34 | 1.324 | 50.6 | 0.846 | 3.565 | 88.0 | 164.2 | --- | --- | 0.46 | 0.294 | 141.0 | 14.5 | 1.0 | 0.327 |
| 4-4260 | 4-4860 | 0.828 | 123.4 | 21.6 | 1.32 | 1.320 | 50.9 | 0.840 | 3.460 | 87.7 | 165.5 | --- | --- | 0.46 | 0.279 | 138.4 | 13.6 | 1.0 | 0.314 |
| 4-4260 | 4-4880 | 0.821 | 123.5 | 21.6 | 1.31 | 1.318 | 51.2 | 0.835 | 3.375 | 87.4 | 166.7 | --- | --- | 0.46 | 0.265 | 135.7 | 12.6 | 1.0 | 0.302 |
| 4-4260 | 4-4900 | 0.814 | 123.7 | 21.5 | 1.30 | 1.315 | 51.5 | 0.830 | 3.305 | 87.0 | 167.8 | --- | --- | 0.45 | 0.254 | 132.9 | 11.6 | 0.9 | 0.291 |
| 4-4260 | 4-4920 | 0.807 | 123.9 | 21.5 | 1.29 | 1.313 | 51.8 | 0.826 | 3.249 | 86.6 | 168.9 | --- | --- | 0.45 | 0.243 | 129.9 | 10.6 | 0.9 | 0.281 |
| 4-4260 | 4-4940 | 0.800 | 124.2 | 21.4 | 1.27 | 1.312 | 52.1 | 0.822 | 3.202 | 86.2 | 170.0 | --- | --- | 0.45 | 0.234 | 126.9 | 9.5 | 0.8 | 0.272 |
| 4-4260 | 4-4960 | 0.794 | 124.5 | 21.4 | 1.26 | 1.310 | 52.5 | 0.818 | 3.163 | 85.6 | 171.0 | --- | --- | 0.45 | 0.226 | 123.8 | 8.5 | 0.8 | 0.265 |
| 4-4260 | 4-4980 | 0.787 | 124.8 | 21.3 | 1.25 | 1.309 | 52.8 | 0.815 | 3.132 | 85.1 | 171.9 | --- | --- | 0.45 | 0.219 | 120.6 | 7.4 | 0.7 | 0.258 |
| 4-4260 | 4-5000 | 0.780 | 125.1 | 21.2 | 1.24 | 1.308 | 53.2 | 0.812 | 3.106 | 84.5 | 172.9 | --- | --- | 0.45 | 0.213 | 117.4 | 6.4 | 0.7 | 0.251 |
| 4-4260 | 4-5020 | 0.773 | 125.4 | 21.2 | 1.23 | 1.307 | 53.5 | 0.808 | 3.086 | 83.9 | 173.7 | --- | --- | 0.45 | 0.208 | 114.1 | 5.4 | 0.6 | 0.246 |
| 4-4260 | 4-5040 | 0.767 | 125.8 | 21.1 | 1.21 | 1.306 | 53.9 | 0.805 | 3.069 | 83.2 | 174.6 | --- | --- | 0.45 | 0.204 | 110.9 | 4.4 | 0.6 | 0.241 |
| 4-4260 | 4-5060 | 0.760 | 126.2 | 21.0 | 1.20 | 1.306 | 54.2 | 0.803 | 3.056 | 82.5 | 175.4 | --- | --- | 0.45 | 0.201 | 107.7 | 3.4 | 0.5 | 0.237 |
| 4-4260 | 4-5080 | 0.753 | 126.6 | 20.9 | 1.19 | 1.305 | 54.6 | 0.800 | 3.046 | 81.8 | 176.2 | --- | --- | 0.45 | 0.199 | 104.6 | 2.5 | 0.5 | 0.234 |
| 4-4260 | 4-5100 | 0.746 | 127.0 | 20.8 | 1.18 | 1.305 | 55.0 | 0.798 | 3.039 | 81.1 | 177.0 | --- | --- | 0.45 | 0.198 | 101.5 | 1.6 | 0.5 | 0.231 |
| 4-4260 | 4-5120 | 0.739 | 127.4 | 20.8 | 1.17 | 1.305 | 55.4 | 0.795 | 3.034 | 80.3 | 177.8 | --- | --- | 0.45 | 0.197 | 98.6 | 0.8 | 0.4 | 0.228 |
| 4-4260 | 4-5140 | 0.732 | 127.8 | 20.7 | 1.15 | 1.305 | 55.7 | 0.793 | 3.032 | 79.5 | 178.5 | --- | --- | 0.45 | 0.196 | 95.7 | 0.0 | 0.4 | 0.226 |
| 4-4260 | 4-5160 | 0.725 | 128.3 | 20.6 | 1.14 | 1.305 | 56.1 | 0.791 | 3.031 | 78.7 | 179.2 | --- | --- | 0.46 | 0.197 | 93.0 | 359.3 | 0.4 | 0.224 |
| 4-4260 | 4-5180 | 0.718 | 128.8 | 20.4 | 1.13 | 1.305 | 56.5 | 0.788 | 3.031 | 77.9 | 179.9 | --- | --- | 0.46 | 0.198 | 90.3 | 358.7 | 0.3 | 0.223 |
| 4-4260 | 4-5200 | 0.711 | 129.3 | 20.3 | 1.12 | 1.305 | 56.9 | 0.786 | 3.034 | 77.0 | 180.6 | --- | 5.419 | 0.46 | 0.199 | 87.8 | 358.1 | 0.3 | 0.222 |
| 4-4260 | 4-5220 | 0.704 | 129.8 | 20.2 | 1.10 | 1.305 | 57.3 | 0.784 | 3.037 | 76.1 | 181.3 | --- | 5.419 | 0.47 | 0.200 | 85.4 | 357.6 | 0.3 | 0.221 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4260 | 4-5240 | 0.697 | 130.3 | 20.1 | 1.09 | 1.305 | 57.7 | 0.782 | 3.041 | 75.3 | 181.9 | --- | 5.421 | 0.47 | 0.202 | 83.2 | 357.2 | 0.3 | 0.221 |
| 4-4260 | 4-5260 | 0.690 | 130.8 | 20.0 | 1.08 | 1.305 | 58.2 | 0.780 | 3.047 | 74.4 | 182.5 | --- | 5.425 | 0.47 | 0.204 | 81.0 | 356.8 | 0.3 | 0.220 |
| 4-4260 | 4-5280 | 0.683 | 131.3 | 19.8 | 1.06 | 1.306 | 58.6 | 0.779 | 3.053 | 73.4 | 183.2 | --- | 5.431 | 0.48 | 0.207 | 79.0 | 356.5 | 0.3 | 0.220 |
| 4-4260 | 4-5300 | 0.676 | 131.9 | 19.7 | 1.05 | 1.306 | 59.0 | 0.777 | 3.061 | 72.5 | 183.8 | --- | 5.438 | 0.48 | 0.209 | 77.1 | 356.3 | 0.2 | 0.221 |
| 4-4260 | 4-5320 | 0.668 | 132.5 | 19.6 | 1.04 | 1.306 | 59.4 | 0.775 | 3.069 | 71.6 | 184.4 | --- | 5.447 | 0.49 | 0.212 | 75.4 | 356.1 | 0.2 | 0.221 |
| 4-4260 | 4-5340 | 0.661 | 133.0 | 19.4 | 1.02 | 1.307 | 59.9 | 0.773 | 3.077 | 70.6 | 185.0 | --- | 5.458 | 0.49 | 0.215 | 73.7 | 356.0 | 0.2 | 0.221 |
| 4-4260 | 4-5360 | 0.654 | 133.6 | 19.2 | 1.01 | 1.307 | 60.3 | 0.772 | 3.087 | 69.7 | 185.6 | --- | 5.469 | 0.50 | 0.218 | 72.1 | 355.9 | 0.3 | 0.222 |
| 4-4260 | 4-5380 | 0.646 | 134.2 | 19.1 | 0.99 | 1.307 | 60.7 | 0.770 | 3.097 | 68.7 | 186.1 | --- | 5.481 | 0.51 | 0.221 | 70.6 | 356.0 | 0.3 | 0.223 |
| 4-4260 | 4-5400 | 0.639 | 134.9 | 18.9 | 0.98 | 1.308 | 61.2 | 0.769 | 3.107 | 67.7 | 186.7 | --- | 5.495 | 0.51 | 0.224 | 69.2 | 356.0 | 0.3 | 0.224 |
| 4-4260 | 4-5420 | 0.632 | 135.5 | 18.7 | 0.96 | 1.308 | 61.6 | 0.767 | 3.118 | 66.7 | 187.3 | --- | 5.509 | 0.52 | 0.228 | 67.9 | 356.2 | 0.3 | 0.225 |
| 4-4260 | 4-5440 | 0.624 | 136.1 | 18.6 | 0.94 | 1.309 | 62.1 | 0.766 | 3.129 | 65.7 | 187.8 | --- | 5.524 | 0.53 | 0.231 | 66.7 | 356.4 | 0.3 | 0.226 |
| 4-4260 | 4-5460 | 0.617 | 136.8 | 18.4 | 0.93 | 1.309 | 62.5 | 0.764 | 3.140 | 64.6 | 188.3 | --- | 5.540 | 0.54 | 0.234 | 65.6 | 356.6 | 0.3 | 0.227 |
| 4-4260 | 4-5480 | 0.609 | 137.5 | 18.2 | 0.91 | 1.310 | 63.0 | 0.763 | 3.152 | 63.6 | 188.9 | --- | 5.567 | 0.55 | 0.238 | 64.5 | 356.9 | 0.4 | 0.228 |
| 4-4260 | 4-5500 | 0.602 | 138.2 | 17.9 | 0.89 | 1.310 | 63.4 | 0.761 | 3.164 | 62.6 | 189.4 | --- | 5.574 | 0.56 | 0.241 | 63.4 | 357.3 | 0.4 | 0.229 |
| 4-4260 | 4-5520 | 0.594 | 138.9 | 17.7 | 0.87 | 1.311 | 63.9 | 0.760 | 3.177 | 61.5 | 189.9 | --- | 5.592 | 0.57 | 0.245 | 62.5 | 357.7 | 0.4 | 0.231 |
| 4-4260 | 4-5540 | 0.587 | 139.6 | 17.5 | 0.85 | 1.311 | 64.3 | 0.759 | 3.190 | 60.4 | 190.4 | --- | 5.610 | 0.59 | 0.248 | 61.6 | 358.1 | 0.5 | 0.232 |
| 4-4260 | 4-5560 | 0.579 | 140.3 | 17.3 | 0.83 | 1.312 | 64.8 | 0.758 | 3.203 | 59.4 | 190.9 | --- | 5.629 | 0.60 | 0.251 | 60.7 | 358.6 | 0.5 | 0.233 |
| 4-4260 | 4-5580 | 0.571 | 141.1 | 17.0 | 0.80 | 1.312 | 65.3 | 0.756 | 3.216 | 58.3 | 191.4 | --- | 5.648 | 0.62 | 0.255 | 59.9 | 359.1 | 0.5 | 0.235 |
| 4-4260 | 4-5600 | 0.564 | 141.8 | 16.7 | 0.78 | 1.313 | 65.8 | 0.755 | 3.229 | 57.2 | 191.9 | --- | 5.668 | 0.63 | 0.258 | 59.1 | 359.7 | 0.6 | 0.236 |
| 4-4260 | 4-5620 | 0.556 | 142.6 | 16.5 | 0.76 | 1.313 | 66.2 | 0.754 | 3.243 | 56.1 | 192.4 | --- | 5.688 | 0.65 | 0.262 | 58.4 | 0.3 | 0.6 | 0.238 |
| 4-4260 | 4-5640 | 0.549 | 143.4 | 16.2 | 0.73 | 1.314 | 66.7 | 0.753 | 3.256 | 55.0 | 192.9 | --- | 5.709 | 0.67 | 0.265 | 57.7 | 0.9 | 0.7 | 0.239 |
| 4-4260 | 4-5660 | 0.541 | 144.2 | 15.9 | 0.70 | 1.314 | 67.2 | 0.752 | 3.270 | 53.8 | 193.4 | --- | 5.730 | 0.69 | 0.268 | 57.1 | 1.6 | 0.7 | 0.241 |
| 4-4260 | 4-5680 | 0.533 | 145.1 | 15.6 | 0.67 | 1.315 | 67.7 | 0.751 | 3.284 | 52.7 | 193.8 | --- | 5.751 | 0.72 | 0.272 | 56.4 | 2.4 | 0.8 | 0.243 |
| 4-4260 | 4-5700 | 0.526 | 145.9 | 15.2 | 0.64 | 1.315 | 68.2 | 0.750 | 3.298 | 51.6 | 194.3 | --- | 5.772 | 0.74 | 0.275 | 55.9 | 3.1 | 0.9 | 0.244 |
| 4-4260 | 4-5720 | 0.518 | 146.8 | 14.9 | 0.60 | 1.316 | 68.7 | 0.749 | 3.313 | 50.4 | 194.8 | --- | 5.794 | 0.77 | 0.278 | 55.3 | 3.9 | 0.9 | 0.246 |
| 4-4260 | 4-5740 | 0.510 | 147.7 | 14.5 | 0.56 | 1.316 | 69.2 | 0.748 | 3.327 | 49.2 | 195.2 | --- | 5.816 | 0.80 | 0.281 | 54.8 | 4.7 | 1.0 | 0.248 |
| 4-4260 | 4-5760 | 0.503 | 148.6 | 14.1 | 0.52 | 1.317 | 69.7 | 0.747 | 3.341 | 48.1 | 195.7 | --- | 5.839 | 0.84 | 0.284 | 54.3 | 5.5 | 1.1 | 0.249 |
| 4-4260 | 4-5780 | 0.495 | 149.6 | 13.6 | 0.47 | 1.317 | 70.2 | 0.746 | 3.356 | 46.9 | 196.1 | --- | 5.861 | 0.88 | 0.288 | 53.8 | 6.4 | 1.2 | 0.251 |
| 4-4260 | 4-5800 | 0.487 | 150.5 | 13.2 | 0.42 | 1.317 | 70.7 | 0.746 | 3.371 | 45.7 | 196.6 | --- | 5.884 | 0.92 | 0.291 | 53.3 | 7.3 | 1.2 | 0.253 |
| 4-4260 | 4-5820 | 0.480 | 151.5 | 12.7 | 0.36 | 1.318 | 71.2 | 0.745 | 3.385 | 44.5 | 197.0 | --- | 5.907 | 0.97 | 0.294 | 52.9 | 8.3 | 1.3 | 0.254 |
| 4-4260 | 4-5840 | 0.472 | 152.5 | 12.2 | 0.30 | 1.318 | 71.7 | 0.744 | 3.400 | 43.3 | 197.4 | --- | 5.930 | 1.03 | 0.297 | 52.5 | 9.2 | 1.4 | 0.256 |
| 4-4260 | 4-5860 | 0.465 | 153.5 | 11.6 | 0.23 | 1.319 | 72.2 | 0.743 | 3.415 | 42.1 | 197.8 | --- | 5.954 | 1.09 | 0.300 | 52.1 | 10.2 | 1.5 | 0.258 |
| 4-4270 | 4-4610 | 1.083 | 128.9 | 20.2 | 1.71 | 1.434 | 40.7 | 1.011 | 36.933 | 97.8 | 146.6 | --- | --- | 0.88 | 0.628 | 164.4 | 20.1 | 1.3 | 0.649 |
| 4-4270 | 4-4630 | 1.063 | 128.4 | 20.3 | 1.68 | 1.414 | 41.0 | 0.987 | 31.668 | 98.9 | 149.1 | --- | --- | 0.86 | 0.579 | 163.2 | 19.6 | 1.3 | 0.604 |
| 4-4270 | 4-4650 | 1.045 | 128.0 | 20.4 | 1.65 | 1.396 | 41.3 | 0.966 | 12.471 | 99.7 | 151.4 | --- | --- | 0.84 | 0.536 | 161.9 | 19.2 | 1.3 | 0.564 |
| 4-4270 | 4-4670 | 1.030 | 127.7 | 20.4 | 1.62 | 1.382 | 41.6 | 0.949 | 8.287 | 100.3 | 153.5 | --- | --- | 0.82 | 0.496 | 160.5 | 18.7 | 1.2 | 0.528 |
| 4-4270 | 4-4690 | 1.016 | 127.4 | 20.5 | 1.59 | 1.370 | 42.0 | 0.935 | 6.468 | 100.7 | 155.5 | --- | --- | 0.81 | 0.461 | 158.9 | 18.1 | 1.2 | 0.496 |
| 4-4270 | 4-4710 | 1.003 | 127.3 | 20.5 | 1.57 | 1.359 | 42.3 | 0.923 | 5.460 | 101.0 | 157.3 | --- | --- | 0.79 | 0.429 | 157.3 | 17.4 | 1.2 | 0.467 |
| 4-4270 | 4-4730 | 0.991 | 127.2 | 20.5 | 1.54 | 1.350 | 42.6 | 0.912 | 4.825 | 101.2 | 159.0 | --- | --- | 0.78 | 0.399 | 155.6 | 16.8 | 1.2 | 0.441 |
| 4-4270 | 4-4750 | 0.980 | 127.2 | 20.5 | 1.52 | 1.343 | 43.0 | 0.903 | 4.392 | 101.2 | 160.5 | --- | --- | 0.77 | 0.373 | 153.7 | 16.0 | 1.2 | 0.418 |
| 4-4270 | 4-4770 | 0.970 | 127.2 | 20.5 | 1.49 | 1.336 | 43.3 | 0.895 | 4.080 | 101.1 | 162.0 | --- | --- | 0.75 | 0.349 | 151.7 | 15.2 | 1.1 | 0.397 |
| 4-4270 | 4-4790 | 0.960 | 127.3 | 20.5 | 1.47 | 1.331 | 43.7 | 0.887 | 3.848 | 101.0 | 163.3 | --- | --- | 0.74 | 0.327 | 149.5 | 14.4 | 1.1 | 0.377 |
| 4-4270 | 4-4810 | 0.951 | 127.4 | 20.5 | 1.45 | 1.326 | 44.0 | 0.881 | 3.671 | 100.7 | 164.6 | --- | --- | 0.73 | 0.307 | 147.2 | 13.5 | 1.1 | 0.360 |
| 4-4270 | 4-4830 | 0.942 | 127.5 | 20.4 | 1.43 | 1.322 | 44.4 | 0.875 | 3.532 | 100.4 | 165.8 | --- | --- | 0.72 | 0.289 | 144.7 | 12.6 | 1.0 | 0.345 |
| 4-4270 | 4-4850 | 0.933 | 127.7 | 20.4 | 1.41 | 1.318 | 44.7 | 0.869 | 3.421 | 100.1 | 166.9 | --- | --- | 0.72 | 0.273 | 142.1 | 11.6 | 1.0 | 0.331 |
| 4-4270 | 4-4870 | 0.924 | 127.9 | 20.3 | 1.39 | 1.315 | 45.1 | 0.864 | 3.332 | 99.6 | 168.0 | --- | --- | 0.71 | 0.258 | 139.3 | 10.7 | 0.9 | 0.318 |
| 4-4270 | 4-4890 | 0.916 | 128.1 | 20.3 | 1.37 | 1.313 | 45.5 | 0.860 | 3.261 | 99.1 | 169.0 | --- | --- | 0.70 | 0.245 | 136.4 | 9.7 | 0.9 | 0.307 |
| 4-4270 | 4-4910 | 0.908 | 128.4 | 20.2 | 1.35 | 1.311 | 45.9 | 0.855 | 3.202 | 98.6 | 170.0 | --- | --- | 0.69 | 0.234 | 133.3 | 8.6 | 0.9 | 0.297 |
| 4-4270 | 4-4930 | 0.900 | 128.7 | 20.2 | 1.33 | 1.309 | 46.3 | 0.851 | 3.155 | 98.0 | 170.9 | --- | --- | 0.69 | 0.223 | 130.1 | 7.6 | 0.8 | 0.288 |
| 4-4270 | 4-4950 | 0.892 | 129.0 | 20.1 | 1.31 | 1.307 | 46.7 | 0.848 | 3.116 | 97.4 | 171.8 | --- | --- | 0.68 | 0.215 | 126.8 | 6.6 | 0.8 | 0.280 |
| 4-4270 | 4-4970 | 0.884 | 129.3 | 20.0 | 1.29 | 1.306 | 47.1 | 0.844 | 3.084 | 96.8 | 172.7 | --- | --- | 0.68 | 0.207 | 123.4 | 5.6 | 0.7 | 0.272 |
| 4-4270 | 4-4990 | 0.876 | 129.6 | 19.9 | 1.27 | 1.305 | 47.5 | 0.841 | 3.058 | 96.1 | 173.5 | --- | --- | 0.67 | 0.201 | 119.9 | 4.6 | 0.7 | 0.266 |
| 4-4270 | 4-5010 | 0.869 | 130.0 | 19.8 | 1.26 | 1.304 | 47.9 | 0.837 | 3.038 | 95.4 | 174.3 | --- | --- | 0.67 | 0.195 | 116.3 | 3.6 | 0.6 | 0.260 |
| 4-4270 | 4-5030 | 0.861 | 130.3 | 19.7 | 1.24 | 1.304 | 48.3 | 0.834 | 3.021 | 94.6 | 175.1 | --- | --- | 0.67 | 0.191 | 112.8 | 2.7 | 0.6 | 0.255 |
| 4-4270 | 4-5050 | 0.853 | 130.7 | 19.6 | 1.22 | 1.303 | 48.7 | 0.831 | 3.009 | 93.9 | 175.9 | --- | --- | 0.66 | 0.188 | 109.3 | 1.8 | 0.6 | 0.251 |
| 4-4270 | 4-5070 | 0.846 | 131.1 | 19.5 | 1.20 | 1.303 | 49.1 | 0.828 | 2.999 | 93.1 | 176.6 | --- | --- | 0.66 | 0.185 | 105.8 | 1.0 | 0.5 | 0.247 |
| 4-4270 | 4-5090 | 0.838 | 131.5 | 19.4 | 1.18 | 1.302 | 49.5 | 0.826 | 2.993 | 92.3 | 177.3 | --- | --- | 0.66 | 0.184 | 102.4 | 0.2 | 0.5 | 0.244 |
| 4-4270 | 4-5110 | 0.830 | 131.9 | 19.3 | 1.17 | 1.302 | 50.0 | 0.823 | 2.988 | 91.4 | 178.0 | --- | --- | 0.66 | 0.183 | 99.2 | 359.4 | 0.5 | 0.242 |
| 4-4270 | 4-5130 | 0.823 | 132.3 | 19.2 | 1.15 | 1.302 | 50.4 | 0.820 | 2.986 | 90.6 | 178.7 | --- | --- | 0.66 | 0.183 | 96.0 | 358.7 | 0.4 | 0.239 |
| 4-4270 | 4-5150 | 0.815 | 132.8 | 19.1 | 1.13 | 1.302 | 50.8 | 0.818 | 2.986 | 89.7 | 179.3 | --- | --- | 0.66 | 0.184 | 93.0 | 358.1 | 0.4 | 0.237 |
| 4-4270 | 4-5170 | 0.807 | 133.2 | 19.0 | 1.11 | 1.302 | 51.3 | 0.815 | 2.987 | 88.9 | 180.0 | --- | --- | 0.66 | 0.185 | 90.1 | 357.5 | 0.4 | 0.236 |
| 4-4270 | 4-5190 | 0.799 | 133.7 | 18.9 | 1.10 | 1.302 | 51.7 | 0.813 | 2.990 | 88.0 | 180.6 | --- | 5.421 | 0.66 | 0.186 | 87.3 | 357.0 | 0.4 | 0.235 |
| 4-4270 | 4-5210 | 0.792 | 134.2 | 18.7 | 1.08 | 1.302 | 52.1 | 0.811 | 2.994 | 87.0 | 181.2 | --- | 5.421 | 0.66 | 0.188 | 84.7 | 356.5 | 0.3 | 0.234 |
| 4-4270 | 4-5230 | 0.784 | 134.7 | 18.6 | 1.06 | 1.303 | 52.6 | 0.808 | 2.999 | 86.1 | 181.8 | --- | 5.424 | 0.66 | 0.190 | 82.3 | 356.2 | 0.3 | 0.233 |
| 4-4270 | 4-5250 | 0.776 | 135.1 | 18.5 | 1.04 | 1.303 | 53.0 | 0.806 | 3.005 | 85.2 | 182.4 | --- | 5.428 | 0.66 | 0.193 | 80.0 | 355.9 | 0.3 | 0.233 |
| 4-4270 | 4-5270 | 0.768 | 135.6 | 18.3 | 1.03 | 1.303 | 53.5 | 0.804 | 3.012 | 84.2 | 183.0 | --- | 5.435 | 0.67 | 0.195 | 77.9 | 355.6 | 0.3 | 0.232 |
| 4-4270 | 4-5290 | 0.760 | 136.2 | 18.2 | 1.01 | 1.303 | 53.9 | 0.802 | 3.020 | 83.3 | 183.6 | --- | 5.443 | 0.67 | 0.198 | 75.9 | 355.4 | 0.3 | 0.232 |
| 4-4270 | 4-5310 | 0.753 | 136.7 | 18.0 | 0.99 | 1.304 | 54.4 | 0.800 | 3.029 | 82.3 | 184.2 | --- | 5.452 | 0.67 | 0.201 | 74.0 | 355.3 | 0.3 | 0.233 |
| 4-4270 | 4-5330 | 0.745 | 137.2 | 17.9 | 0.97 | 1.304 | 54.9 | 0.798 | 3.038 | 81.3 | 184.7 | --- | 5.463 | 0.68 | 0.205 | 72.2 | 355.2 | 0.3 | 0.233 |
| 4-4270 | 4-5350 | 0.737 | 137.7 | 17.7 | 0.95 | 1.305 | 55.3 | 0.796 | 3.048 | 80.3 | 185.3 | --- | 5.474 | 0.68 | 0.208 | 70.6 | 355.2 | 0.3 | 0.233 |
| 4-4270 | 4-5370 | 0.729 | 138.3 | 17.5 | 0.93 | 1.305 | 55.8 | 0.794 | 3.059 | 79.3 | 185.8 | --- | 5.487 | 0.69 | 0.212 | 69.1 | 355.3 | 0.3 | 0.234 |
| 4-4270 | 4-5390 | 0.721 | 138.9 | 17.4 | 0.91 | 1.306 | 56.3 | 0.792 | 3.070 | 78.3 | 186.3 | --- | 5.501 | 0.69 | 0.215 | 67.6 | 355.4 | 0.3 | 0.235 |
| 4-4270 | 4-5410 | 0.713 | 139.4 | 17.2 | 0.89 | 1.306 | 56.7 | 0.790 | 3.081 | 77.2 | 186.9 | --- | 5.516 | 0.70 | 0.219 | 66.3 | 355.6 | 0.4 | 0.235 |
| 4-4270 | 4-5430 | 0.705 | 140.0 | 17.0 | 0.87 | 1.306 | 57.2 | 0.788 | 3.093 | 76.2 | 187.4 | --- | 5.531 | 0.71 | 0.222 | 65.1 | 355.8 | 0.4 | 0.236 |
| 4-4270 | 4-5450 | 0.697 | 140.6 | 16.8 | 0.85 | 1.307 | 57.7 | 0.787 | 3.105 | 75.2 | 187.9 | --- | 5.548 | 0.71 | 0.226 | 63.9 | 356.1 | 0.4 | 0.237 |
| 4-4270 | 4-5470 | 0.689 | 141.2 | 16.6 | 0.83 | 1.307 | 58.1 | 0.785 | 3.118 | 74.1 | 188.4 | --- | 5.564 | 0.72 | 0.230 | 62.8 | 356.4 | 0.4 | 0.238 |
| 4-4270 | 4-5490 | 0.681 | 141.8 | 16.4 | 0.81 | 1.308 | 58.6 | 0.783 | 3.130 | 73.0 | 188.9 | --- | 5.582 | 0.73 | 0.233 | 61.8 | 356.8 | 0.5 | 0.239 |
| 4-4270 | 4-5510 | 0.673 | 142.4 | 16.2 | 0.79 | 1.308 | 59.1 | 0.781 | 3.143 | 72.0 | 189.4 | --- | 5.600 | 0.74 | 0.237 | 60.8 | 357.2 | 0.5 | 0.240 |
| 4-4270 | 4-5530 | 0.665 | 143.0 | 16.0 | 0.76 | 1.309 | 59.6 | 0.780 | 3.157 | 70.9 | 189.9 | --- | 5.619 | 0.75 | 0.241 | 59.9 | 357.7 | 0.5 | 0.242 |
| 4-4270 | 4-5550 | 0.657 | 143.7 | 15.7 | 0.74 | 1.309 | 60.1 | 0.778 | 3.170 | 69.8 | 190.4 | --- | 5.638 | 0.76 | 0.245 | 59.1 | 358.2 | 0.6 | 0.243 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4270 | 4-5570 | 0.648 | 144.3 | 15.5 | 0.71 | 1.310 | 60.6 | 0.777 | 3.184 | 68.7 | 190.9 | --- | 5.657 | 0.78 | 0.248 | 58.3 | 358.7 | 0.6 | 0.244 |
| 4-4270 | 4-5590 | 0.640 | 145.0 | 15.3 | 0.69 | 1.311 | 61.1 | 0.775 | 3.198 | 67.6 | 191.4 | --- | 5.677 | 0.79 | 0.252 | 57.5 | 359.3 | 0.6 | 0.246 |
| 4-4270 | 4-5610 | 0.632 | 145.7 | 15.0 | 0.66 | 1.311 | 61.5 | 0.774 | 3.212 | 66.5 | 191.8 | --- | 5.697 | 0.81 | 0.255 | 56.8 | 359.9 | 0.7 | 0.247 |
| 4-4270 | 4-5630 | 0.624 | 146.4 | 14.7 | 0.63 | 1.312 | 62.0 | 0.772 | 3.226 | 65.3 | 192.3 | --- | 5.718 | 0.82 | 0.259 | 56.2 | 0.6 | 0.7 | 0.248 |
| 4-4270 | 4-5650 | 0.616 | 147.1 | 14.5 | 0.60 | 1.312 | 62.5 | 0.771 | 3.241 | 64.2 | 192.8 | --- | 5.739 | 0.84 | 0.263 | 55.5 | 1.3 | 0.8 | 0.250 |
| 4-4270 | 4-5670 | 0.607 | 147.8 | 14.2 | 0.57 | 1.313 | 63.0 | 0.769 | 3.255 | 63.1 | 193.2 | --- | 5.760 | 0.86 | 0.266 | 55.0 | 2.0 | 0.9 | 0.251 |
| 4-4270 | 4-5690 | 0.599 | 148.5 | 13.9 | 0.54 | 1.313 | 63.5 | 0.768 | 3.270 | 61.9 | 193.7 | --- | 5.781 | 0.88 | 0.270 | 54.4 | 2.8 | 0.9 | 0.252 |
| 4-4270 | 4-5710 | 0.591 | 149.3 | 13.6 | 0.51 | 1.314 | 64.0 | 0.767 | 3.285 | 60.8 | 194.1 | --- | 5.803 | 0.91 | 0.273 | 53.9 | 3.6 | 1.0 | 0.254 |
| 4-4270 | 4-5730 | 0.583 | 150.0 | 13.2 | 0.47 | 1.314 | 64.6 | 0.765 | 3.300 | 59.6 | 194.6 | --- | 5.825 | 0.93 | 0.276 | 53.4 | 4.4 | 1.0 | 0.255 |
| 4-4270 | 4-5750 | 0.574 | 150.8 | 12.9 | 0.43 | 1.315 | 65.1 | 0.764 | 3.315 | 58.4 | 195.0 | --- | 5.848 | 0.96 | 0.280 | 52.9 | 5.2 | 1.1 | 0.257 |
| 4-4270 | 4-5770 | 0.566 | 151.6 | 12.5 | 0.39 | 1.315 | 65.6 | 0.763 | 3.330 | 57.2 | 195.5 | --- | 5.870 | 0.99 | 0.283 | 52.5 | 6.1 | 1.2 | 0.258 |
| 4-4270 | 4-5790 | 0.558 | 152.4 | 12.2 | 0.35 | 1.316 | 66.1 | 0.762 | 3.345 | 56.0 | 195.9 | --- | 5.893 | 1.02 | 0.286 | 52.0 | 7.0 | 1.3 | 0.260 |
| 4-4270 | 4-5810 | 0.550 | 153.2 | 11.8 | 0.30 | 1.316 | 66.6 | 0.761 | 3.360 | 54.8 | 196.3 | --- | 5.916 | 1.06 | 0.290 | 51.6 | 7.9 | 1.3 | 0.262 |
| 4-4270 | 4-5830 | 0.541 | 154.1 | 11.3 | 0.25 | 1.317 | 67.1 | 0.759 | 3.375 | 53.6 | 196.8 | --- | 5.939 | 1.10 | 0.293 | 51.2 | 8.9 | 1.4 | 0.263 |
| 4-4270 | 4-5850 | 0.533 | 154.9 | 10.9 | 0.19 | 1.317 | 67.7 | 0.758 | 3.391 | 52.4 | 197.2 | --- | 5.962 | 1.14 | 0.296 | 50.9 | 9.9 | 1.5 | 0.265 |
| 4-4270 | 4-5870 | 0.525 | 155.8 | 10.4 | 0.14 | 1.318 | 68.2 | 0.757 | 3.406 | 51.2 | 197.6 | --- | 5.985 | 1.19 | 0.299 | 50.5 | 10.9 | 1.6 | 0.266 |
| 4-4280 | 4-4620 | 1.205 | 132.0 | 19.2 | 2.03 | 1.423 | 33.1 | 1.00049.741 | | 113.8 | 153.2 | --- | --- | 1.33 | 0.605 | 166.5 | 17.9 | 1.2 | 0.646 |
| 4-4280 | 4-4640 | 1.183 | 131.7 | 19.3 | 1.97 | 1.403 | 33.6 | 0.98317.385 | | 114.3 | 155.2 | --- | --- | 1.29 | 0.556 | 165.4 | 17.4 | 1.2 | 0.602 |
| 4-4280 | 4-4660 | 1.163 | 131.5 | 19.3 | 1.92 | 1.387 | 34.1 | 0.969 | 9.637 | 114.6 | 157.0 | --- | --- | 1.26 | 0.513 | 164.1 | 16.9 | 1.2 | 0.563 |
| 4-4280 | 4-4680 | 1.145 | 131.4 | 19.3 | 1.87 | 1.373 | 34.6 | 0.957 | 7.031 | 114.8 | 158.7 | --- | --- | 1.22 | 0.474 | 162.7 | 16.3 | 1.2 | 0.528 |
| 4-4280 | 4-4700 | 1.129 | 131.4 | 19.3 | 1.83 | 1.361 | 35.0 | 0.947 | 5.735 | 114.8 | 160.2 | --- | --- | 1.19 | 0.439 | 161.2 | 15.6 | 1.2 | 0.496 |
| 4-4280 | 4-4720 | 1.114 | 131.4 | 19.3 | 1.79 | 1.351 | 35.5 | 0.938 | 4.966 | 114.7 | 161.7 | --- | --- | 1.16 | 0.407 | 159.6 | 14.9 | 1.1 | 0.469 |
| 4-4280 | 4-4740 | 1.100 | 131.4 | 19.3 | 1.74 | 1.343 | 36.0 | 0.930 | 4.462 | 114.6 | 163.0 | --- | --- | 1.13 | 0.378 | 157.8 | 14.1 | 1.1 | 0.444 |
| 4-4280 | 4-4760 | 1.087 | 131.5 | 19.3 | 1.71 | 1.336 | 36.4 | 0.922 | 4.110 | 114.3 | 164.2 | --- | --- | 1.11 | 0.351 | 155.9 | 13.3 | 1.1 | 0.421 |
| 4-4280 | 4-4780 | 1.075 | 131.7 | 19.2 | 1.67 | 1.329 | 36.9 | 0.916 | 3.852 | 113.9 | 165.4 | --- | --- | 1.08 | 0.327 | 153.8 | 12.5 | 1.1 | 0.401 |
| 4-4280 | 4-4800 | 1.064 | 131.9 | 19.2 | 1.63 | 1.324 | 37.4 | 0.910 | 3.658 | 113.5 | 166.5 | --- | --- | 1.06 | 0.305 | 151.6 | 11.6 | 1.0 | 0.382 |
| 4-4280 | 4-4820 | 1.053 | 132.1 | 19.1 | 1.60 | 1.320 | 37.8 | 0.905 | 3.508 | 113.0 | 167.5 | --- | --- | 1.04 | 0.286 | 149.2 | 10.7 | 1.0 | 0.366 |
| 4-4280 | 4-4840 | 1.042 | 132.3 | 19.1 | 1.57 | 1.316 | 38.3 | 0.900 | 3.390 | 112.5 | 168.5 | --- | --- | 1.02 | 0.268 | 146.6 | 9.7 | 0.9 | 0.351 |
| 4-4280 | 4-4860 | 1.032 | 132.5 | 19.0 | 1.53 | 1.313 | 38.7 | 0.895 | 3.296 | 111.9 | 169.4 | --- | --- | 1.00 | 0.252 | 143.8 | 8.7 | 0.9 | 0.338 |
| 4-4280 | 4-4880 | 1.022 | 132.8 | 18.9 | 1.50 | 1.310 | 39.2 | 0.890 | 3.220 | 111.3 | 170.3 | --- | --- | 0.99 | 0.237 | 140.8 | 7.8 | 0.9 | 0.326 |
| 4-4280 | 4-4900 | 1.013 | 133.1 | 18.8 | 1.47 | 1.308 | 39.7 | 0.886 | 3.159 | 110.6 | 171.1 | --- | --- | 0.97 | 0.224 | 137.6 | 6.8 | 0.8 | 0.315 |
| 4-4280 | 4-4920 | 1.003 | 133.4 | 18.7 | 1.44 | 1.306 | 40.1 | 0.882 | 3.109 | 109.9 | 172.0 | --- | --- | 0.96 | 0.213 | 134.3 | 5.8 | 0.8 | 0.306 |
| 4-4280 | 4-4940 | 0.994 | 133.7 | 18.7 | 1.42 | 1.304 | 40.6 | 0.878 | 3.069 | 109.2 | 172.7 | --- | --- | 0.95 | 0.203 | 130.7 | 4.8 | 0.7 | 0.297 |
| 4-4280 | 4-4960 | 0.985 | 134.1 | 18.6 | 1.39 | 1.303 | 41.1 | 0.875 | 3.037 | 108.5 | 173.5 | --- | --- | 0.93 | 0.194 | 127.1 | 3.9 | 0.7 | 0.290 |
| 4-4280 | 4-4980 | 0.976 | 134.4 | 18.5 | 1.36 | 1.302 | 41.5 | 0.871 | 3.011 | 107.7 | 174.2 | --- | --- | 0.92 | 0.187 | 123.3 | 2.9 | 0.7 | 0.283 |
| 4-4280 | 4-5000 | 0.967 | 134.8 | 18.4 | 1.33 | 1.301 | 42.0 | 0.868 | 2.990 | 106.9 | 174.9 | --- | --- | 0.91 | 0.181 | 119.4 | 2.0 | 0.6 | 0.277 |
| 4-4280 | 4-5020 | 0.958 | 135.2 | 18.2 | 1.31 | 1.300 | 42.5 | 0.865 | 2.973 | 106.1 | 175.6 | --- | --- | 0.90 | 0.176 | 115.5 | 1.1 | 0.6 | 0.272 |
| 4-4280 | 4-5040 | 0.950 | 135.6 | 18.1 | 1.28 | 1.300 | 43.0 | 0.861 | 2.961 | 105.2 | 176.3 | --- | --- | 0.89 | 0.173 | 111.5 | 0.3 | 0.6 | 0.267 |
| 4-4280 | 4-5060 | 0.941 | 136.0 | 18.0 | 1.26 | 1.299 | 43.4 | 0.858 | 2.952 | 104.3 | 177.0 | --- | --- | 0.89 | 0.170 | 107.6 | 359.5 | 0.5 | 0.263 |
| 4-4280 | 4-5080 | 0.933 | 136.4 | 17.9 | 1.23 | 1.299 | 43.9 | 0.855 | 2.945 | 103.5 | 177.6 | --- | --- | 0.88 | 0.168 | 103.8 | 358.8 | 0.5 | 0.260 |
| 4-4280 | 4-5100 | 0.924 | 136.8 | 17.8 | 1.21 | 1.299 | 44.4 | 0.853 | 2.941 | 102.6 | 178.2 | --- | --- | 0.87 | 0.168 | 100.1 | 358.1 | 0.5 | 0.257 |
| 4-4280 | 4-5120 | 0.916 | 137.2 | 17.7 | 1.19 | 1.299 | 44.9 | 0.850 | 2.940 | 101.7 | 178.8 | --- | --- | 0.87 | 0.168 | 96.5 | 357.5 | 0.4 | 0.255 |
| 4-4280 | 4-5140 | 0.907 | 137.6 | 17.5 | 1.16 | 1.299 | 45.3 | 0.847 | 2.940 | 100.7 | 179.4 | --- | --- | 0.86 | 0.168 | 93.1 | 356.9 | 0.4 | 0.252 |
| 4-4280 | 4-5160 | 0.899 | 138.1 | 17.4 | 1.14 | 1.299 | 45.8 | 0.844 | 2.941 | 99.8 | 180.0 | --- | 5.425 | 0.86 | 0.169 | 89.9 | 356.4 | 0.4 | 0.251 |
| 4-4280 | 4-5180 | 0.890 | 138.5 | 17.3 | 1.12 | 1.299 | 46.3 | 0.842 | 2.945 | 98.8 | 180.6 | --- | 5.423 | 0.86 | 0.171 | 86.8 | 355.9 | 0.4 | 0.249 |
| 4-4280 | 4-5200 | 0.882 | 139.0 | 17.1 | 1.09 | 1.299 | 46.8 | 0.839 | 2.949 | 97.9 | 181.2 | --- | 5.424 | 0.85 | 0.173 | 83.9 | 355.6 | 0.4 | 0.248 |
| 4-4280 | 4-5220 | 0.873 | 139.4 | 17.0 | 1.07 | 1.299 | 47.3 | 0.836 | 2.955 | 96.9 | 181.7 | --- | 5.427 | 0.85 | 0.176 | 81.2 | 355.2 | 0.3 | 0.247 |
| 4-4280 | 4-5240 | 0.865 | 139.9 | 16.8 | 1.05 | 1.300 | 47.8 | 0.834 | 2.962 | 95.9 | 182.3 | --- | 5.432 | 0.85 | 0.179 | 78.7 | 355.0 | 0.3 | 0.247 |
| 4-4280 | 4-5260 | 0.856 | 140.4 | 16.7 | 1.03 | 1.300 | 48.3 | 0.832 | 2.969 | 94.9 | 182.8 | --- | 5.438 | 0.85 | 0.182 | 76.4 | 354.8 | 0.3 | 0.246 |
| 4-4280 | 4-5280 | 0.848 | 140.9 | 16.5 | 1.00 | 1.300 | 48.7 | 0.829 | 2.978 | 93.9 | 183.4 | --- | 5.447 | 0.85 | 0.186 | 74.3 | 354.7 | 0.3 | 0.246 |
| 4-4280 | 4-5300 | 0.840 | 141.4 | 16.4 | 0.98 | 1.301 | 49.2 | 0.827 | 2.987 | 92.9 | 183.9 | --- | 5.456 | 0.85 | 0.189 | 72.3 | 354.6 | 0.3 | 0.246 |
| 4-4280 | 4-5320 | 0.831 | 141.9 | 16.2 | 0.96 | 1.301 | 49.7 | 0.824 | 2.997 | 91.9 | 184.4 | --- | 5.468 | 0.85 | 0.193 | 70.4 | 354.6 | 0.3 | 0.246 |
| 4-4280 | 4-5340 | 0.823 | 142.4 | 16.0 | 0.93 | 1.302 | 50.2 | 0.822 | 3.007 | 90.9 | 184.9 | --- | 5.480 | 0.85 | 0.197 | 68.7 | 354.6 | 0.3 | 0.246 |
| 4-4280 | 4-5360 | 0.814 | 142.9 | 15.9 | 0.91 | 1.302 | 50.7 | 0.820 | 3.018 | 89.8 | 185.4 | --- | 5.493 | 0.85 | 0.201 | 67.1 | 354.7 | 0.4 | 0.247 |
| 4-4280 | 4-5380 | 0.806 | 143.4 | 15.7 | 0.89 | 1.303 | 51.2 | 0.818 | 3.030 | 88.8 | 185.9 | --- | 5.507 | 0.85 | 0.205 | 65.6 | 354.9 | 0.4 | 0.247 |
| 4-4280 | 4-5400 | 0.797 | 143.9 | 15.5 | 0.86 | 1.303 | 51.7 | 0.816 | 3.042 | 87.7 | 186.4 | --- | 5.523 | 0.86 | 0.209 | 64.3 | 355.1 | 0.4 | 0.248 |
| 4-4280 | 4-5420 | 0.789 | 144.5 | 15.3 | 0.84 | 1.304 | 52.2 | 0.813 | 3.054 | 86.7 | 186.9 | --- | 5.538 | 0.86 | 0.213 | 63.0 | 355.3 | 0.4 | 0.249 |
| 4-4280 | 4-5440 | 0.780 | 145.0 | 15.1 | 0.82 | 1.304 | 52.7 | 0.811 | 3.067 | 85.6 | 187.4 | --- | 5.555 | 0.86 | 0.217 | 61.8 | 355.6 | 0.4 | 0.249 |
| 4-4280 | 4-5460 | 0.772 | 145.5 | 14.9 | 0.79 | 1.305 | 53.2 | 0.809 | 3.080 | 84.5 | 187.9 | --- | 5.572 | 0.87 | 0.221 | 60.7 | 356.0 | 0.5 | 0.250 |
| 4-4280 | 4-5480 | 0.763 | 146.1 | 14.7 | 0.77 | 1.305 | 53.7 | 0.807 | 3.093 | 83.4 | 188.4 | --- | 5.590 | 0.88 | 0.225 | 59.7 | 356.4 | 0.5 | 0.251 |
| 4-4280 | 4-5500 | 0.754 | 146.7 | 14.5 | 0.74 | 1.306 | 54.2 | 0.805 | 3.107 | 82.3 | 188.9 | --- | 5.609 | 0.88 | 0.229 | 58.8 | 356.8 | 0.5 | 0.252 |
| 4-4280 | 4-5520 | 0.746 | 147.2 | 14.3 | 0.72 | 1.306 | 54.7 | 0.803 | 3.121 | 81.2 | 189.3 | --- | 5.628 | 0.89 | 0.233 | 57.9 | 357.3 | 0.6 | 0.253 |
| 4-4280 | 4-5540 | 0.737 | 147.8 | 14.1 | 0.69 | 1.307 | 55.2 | 0.801 | 3.135 | 80.1 | 189.8 | --- | 5.647 | 0.90 | 0.237 | 57.1 | 357.8 | 0.6 | 0.254 |
| 4-4280 | 4-5560 | 0.729 | 148.4 | 13.9 | 0.66 | 1.307 | 55.8 | 0.799 | 3.149 | 79.0 | 190.3 | --- | 5.667 | 0.91 | 0.241 | 56.3 | 358.4 | 0.6 | 0.255 |
| 4-4280 | 4-5580 | 0.720 | 149.0 | 13.6 | 0.64 | 1.308 | 56.3 | 0.797 | 3.164 | 77.9 | 190.7 | --- | 5.687 | 0.92 | 0.245 | 55.6 | 359.0 | 0.7 | 0.256 |
| 4-4280 | 4-5600 | 0.711 | 149.6 | 13.4 | 0.61 | 1.309 | 56.8 | 0.796 | 3.179 | 76.7 | 191.2 | --- | 5.707 | 0.93 | 0.248 | 54.9 | 359.6 | 0.7 | 0.257 |
| 4-4280 | 4-5620 | 0.703 | 150.2 | 13.1 | 0.58 | 1.309 | 57.3 | 0.794 | 3.193 | 75.6 | 191.6 | --- | 5.728 | 0.94 | 0.252 | 54.3 | 0.3 | 0.8 | 0.259 |
| 4-4280 | 4-5640 | 0.694 | 150.8 | 12.9 | 0.55 | 1.310 | 57.8 | 0.792 | 3.208 | 74.5 | 192.1 | --- | 5.749 | 0.96 | 0.256 | 53.7 | 1.0 | 0.8 | 0.260 |
| 4-4280 | 4-5660 | 0.685 | 151.5 | 12.6 | 0.52 | 1.310 | 58.3 | 0.790 | 3.223 | 73.3 | 192.5 | --- | 5.771 | 0.97 | 0.260 | 53.1 | 1.7 | 0.9 | 0.261 |
| 4-4280 | 4-5680 | 0.677 | 152.1 | 12.3 | 0.49 | 1.311 | 58.8 | 0.788 | 3.239 | 72.2 | 193.0 | --- | 5.792 | 0.99 | 0.264 | 52.6 | 2.5 | 0.9 | 0.262 |
| 4-4280 | 4-5700 | 0.668 | 152.8 | 12.1 | 0.46 | 1.311 | 59.4 | 0.787 | 3.254 | 71.0 | 193.4 | --- | 5.814 | 1.00 | 0.267 | 52.1 | 3.3 | 1.0 | 0.264 |
| 4-4280 | 4-5720 | 0.659 | 153.4 | 11.8 | 0.42 | 1.312 | 59.9 | 0.785 | 3.269 | 69.8 | 193.9 | --- | 5.836 | 1.02 | 0.271 | 51.6 | 4.1 | 1.0 | 0.265 |
| 4-4280 | 4-5740 | 0.650 | 154.1 | 11.5 | 0.39 | 1.312 | 60.4 | 0.783 | 3.285 | 68.6 | 194.3 | --- | 5.859 | 1.04 | 0.274 | 51.2 | 5.0 | 1.1 | 0.266 |
| 4-4280 | 4-5760 | 0.642 | 154.8 | 11.1 | 0.35 | 1.313 | 60.9 | 0.782 | 3.301 | 67.4 | 194.7 | --- | 5.881 | 1.06 | 0.278 | 50.8 | 5.8 | 1.2 | 0.268 |
| 4-4280 | 4-5780 | 0.633 | 155.5 | 10.8 | 0.31 | 1.314 | 61.5 | 0.780 | 3.316 | 66.3 | 195.2 | --- | 5.904 | 1.09 | 0.281 | 50.4 | 6.8 | 1.2 | 0.269 |
| 4-4280 | 4-5800 | 0.624 | 156.2 | 10.5 | 0.27 | 1.314 | 62.0 | 0.779 | 3.332 | 65.0 | 195.6 | --- | 5.927 | 1.11 | 0.285 | 50.0 | 7.7 | 1.3 | 0.270 |
| 4-4280 | 4-5820 | 0.615 | 156.9 | 10.1 | 0.23 | 1.315 | 62.5 | 0.777 | 3.348 | 63.8 | 196.0 | --- | 5.950 | 1.14 | 0.288 | 49.7 | 8.6 | 1.4 | 0.272 |
| 4-4280 | 4-5840 | 0.606 | 157.6 | 9.7 | 0.18 | 1.315 | 63.1 | 0.776 | 3.363 | 62.6 | 196.4 | --- | 5.973 | 1.17 | 0.291 | 49.4 | 9.6 | 1.5 | 0.273 |
| 4-4280 | 4-5860 | 0.598 | 158.4 | 9.4 | 0.13 | 1.316 | 63.6 | 0.774 | 3.379 | 61.4 | 196.9 | --- | 5.996 | 1.21 | 0.295 | 49.0 | 10.6 | 1.5 | 0.274 |
| 4-4280 | 4-5880 | 0.589 | 159.2 | 9.0 | 0.08 | 1.316 | 64.2 | 0.773 | 3.395 | 60.2 | 197.3 | --- | 6.020 | 1.24 | 0.298 | 48.7 | 11.6 | 1.6 | 0.276 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4290 | 4-4630 | 1.328 | 135.6 | 18.1 | 2.57 | 1.413 | 25.4 | 0.995 | 39.688 | 129.8 | 159.8 | --- | --- | 2.01 | 0.585 | 169.2 | 15.7 | 1.2 | 0.648 |
| 4-4290 | 4-4650 | 1.303 | 135.6 | 18.1 | 2.47 | 1.394 | 26.1 | 0.985 | 12.636 | 129.6 | 161.2 | --- | --- | 1.93 | 0.537 | 168.0 | 15.1 | 1.2 | 0.604 |
| 4-4290 | 4-4670 | 1.280 | 135.6 | 18.1 | 2.38 | 1.378 | 26.7 | 0.976 | 8.088 | 129.4 | 162.5 | --- | --- | 1.85 | 0.493 | 166.8 | 14.5 | 1.1 | 0.566 |
| 4-4290 | 4-4690 | 1.260 | 135.6 | 18.1 | 2.29 | 1.365 | 27.4 | 0.969 | 6.228 | 129.1 | 163.6 | --- | --- | 1.78 | 0.454 | 165.5 | 13.8 | 1.1 | 0.532 |
| 4-4290 | 4-4710 | 1.241 | 135.7 | 18.0 | 2.21 | 1.353 | 28.0 | 0.962 | 5.226 | 128.7 | 164.7 | --- | --- | 1.71 | 0.419 | 164.0 | 13.1 | 1.1 | 0.502 |
| 4-4290 | 4-4730 | 1.224 | 135.9 | 18.0 | 2.14 | 1.344 | 28.6 | 0.955 | 4.605 | 128.2 | 165.8 | --- | --- | 1.65 | 0.387 | 162.4 | 12.3 | 1.1 | 0.475 |
| 4-4290 | 4-4750 | 1.208 | 136.1 | 17.9 | 2.07 | 1.336 | 29.2 | 0.949 | 4.188 | 127.7 | 166.8 | --- | --- | 1.60 | 0.358 | 160.7 | 11.5 | 1.0 | 0.450 |
| 4-4290 | 4-4770 | 1.194 | 136.3 | 17.8 | 2.01 | 1.329 | 29.8 | 0.944 | 3.890 | 127.1 | 167.7 | --- | --- | 1.55 | 0.331 | 158.8 | 10.6 | 1.0 | 0.428 |
| 4-4290 | 4-4790 | 1.180 | 136.5 | 17.8 | 1.95 | 1.323 | 30.4 | 0.938 | 3.670 | 126.4 | 168.5 | --- | --- | 1.50 | 0.307 | 156.7 | 9.8 | 1.0 | 0.409 |
| 4-4290 | 4-4810 | 1.167 | 136.8 | 17.7 | 1.89 | 1.318 | 31.0 | 0.934 | 3.503 | 125.8 | 169.4 | --- | --- | 1.46 | 0.285 | 154.4 | 8.8 | 0.9 | 0.391 |
| 4-4290 | 4-4830 | 1.154 | 137.0 | 17.6 | 1.83 | 1.314 | 31.5 | 0.929 | 3.373 | 125.0 | 170.2 | --- | --- | 1.42 | 0.265 | 152.0 | 7.9 | 0.9 | 0.376 |
| 4-4290 | 4-4850 | 1.142 | 137.3 | 17.5 | 1.78 | 1.310 | 32.1 | 0.925 | 3.271 | 124.3 | 170.9 | --- | --- | 1.39 | 0.247 | 149.3 | 7.0 | 0.9 | 0.361 |
| 4-4290 | 4-4870 | 1.131 | 137.7 | 17.4 | 1.73 | 1.307 | 32.6 | 0.921 | 3.189 | 123.5 | 171.6 | --- | --- | 1.35 | 0.231 | 146.3 | 6.0 | 0.8 | 0.349 |
| 4-4290 | 4-4890 | 1.120 | 138.0 | 17.3 | 1.69 | 1.305 | 33.2 | 0.917 | 3.124 | 122.7 | 172.3 | --- | --- | 1.32 | 0.216 | 143.1 | 5.1 | 0.8 | 0.337 |
| 4-4290 | 4-4910 | 1.109 | 138.3 | 17.2 | 1.64 | 1.303 | 33.8 | 0.913 | 3.071 | 121.9 | 173.0 | --- | --- | 1.29 | 0.203 | 139.7 | 4.1 | 0.7 | 0.327 |
| 4-4290 | 4-4930 | 1.098 | 138.7 | 17.1 | 1.60 | 1.301 | 34.3 | 0.909 | 3.028 | 121.0 | 173.7 | --- | --- | 1.27 | 0.192 | 136.0 | 3.2 | 0.7 | 0.318 |
| 4-4290 | 4-4950 | 1.088 | 139.1 | 17.0 | 1.56 | 1.300 | 34.9 | 0.906 | 2.994 | 120.1 | 174.3 | --- | --- | 1.24 | 0.182 | 132.1 | 2.3 | 0.7 | 0.310 |
| 4-4290 | 4-4970 | 1.078 | 139.4 | 16.9 | 1.52 | 1.298 | 35.4 | 0.902 | 2.967 | 119.3 | 175.0 | --- | --- | 1.22 | 0.173 | 128.0 | 1.4 | 0.6 | 0.303 |
| 4-4290 | 4-4990 | 1.068 | 139.8 | 16.7 | 1.48 | 1.297 | 35.9 | 0.899 | 2.945 | 118.4 | 175.6 | --- | --- | 1.20 | 0.166 | 123.7 | 0.5 | 0.6 | 0.297 |
| 4-4290 | 4-5010 | 1.058 | 140.2 | 16.6 | 1.44 | 1.297 | 36.5 | 0.895 | 2.928 | 117.4 | 176.2 | --- | --- | 1.18 | 0.161 | 119.3 | 359.7 | 0.6 | 0.291 |
| 4-4290 | 4-5030 | 1.048 | 140.6 | 16.5 | 1.41 | 1.296 | 37.0 | 0.892 | 2.915 | 116.5 | 176.7 | --- | --- | 1.16 | 0.156 | 114.9 | 359.0 | 0.5 | 0.286 |
| 4-4290 | 4-5050 | 1.039 | 141.0 | 16.4 | 1.37 | 1.296 | 37.6 | 0.889 | 2.905 | 115.6 | 177.3 | --- | --- | 1.14 | 0.153 | 110.4 | 358.2 | 0.5 | 0.282 |
| 4-4290 | 4-5070 | 1.029 | 141.4 | 16.2 | 1.34 | 1.295 | 38.1 | 0.886 | 2.899 | 114.6 | 177.9 | --- | --- | 1.13 | 0.151 | 106.0 | 357.6 | 0.5 | 0.278 |
| 4-4290 | 4-5090 | 1.020 | 141.9 | 16.1 | 1.30 | 1.295 | 38.6 | 0.883 | 2.895 | 113.6 | 178.4 | --- | --- | 1.11 | 0.150 | 101.7 | 356.9 | 0.4 | 0.275 |
| 4-4290 | 4-5110 | 1.011 | 142.3 | 15.9 | 1.27 | 1.295 | 39.2 | 0.880 | 2.893 | 112.6 | 179.0 | --- | --- | 1.10 | 0.150 | 97.5 | 356.4 | 0.4 | 0.272 |
| 4-4290 | 4-5130 | 1.001 | 142.7 | 15.8 | 1.24 | 1.295 | 39.7 | 0.877 | 2.894 | 111.7 | 179.5 | --- | --- | 1.09 | 0.151 | 93.5 | 355.9 | 0.4 | 0.270 |
| 4-4290 | 4-5150 | 0.992 | 143.2 | 15.7 | 1.21 | 1.295 | 40.2 | 0.874 | 2.896 | 110.7 | 180.0 | --- | 5.426 | 1.08 | 0.152 | 89.8 | 355.4 | 0.4 | 0.268 |
| 4-4290 | 4-5170 | 0.983 | 143.6 | 15.5 | 1.18 | 1.295 | 40.8 | 0.871 | 2.899 | 109.7 | 180.5 | --- | 5.425 | 1.07 | 0.154 | 86.3 | 355.0 | 0.4 | 0.266 |
| 4-4290 | 4-5190 | 0.974 | 144.0 | 15.3 | 1.15 | 1.296 | 41.3 | 0.868 | 2.904 | 108.6 | 181.1 | --- | 5.426 | 1.06 | 0.157 | 83.0 | 354.7 | 0.3 | 0.265 |
| 4-4290 | 4-5210 | 0.965 | 144.5 | 15.2 | 1.12 | 1.296 | 41.8 | 0.866 | 2.910 | 107.6 | 181.6 | --- | 5.429 | 1.05 | 0.160 | 80.0 | 354.4 | 0.3 | 0.264 |
| 4-4290 | 4-5230 | 0.956 | 145.0 | 15.0 | 1.09 | 1.296 | 42.3 | 0.863 | 2.917 | 106.6 | 182.1 | --- | 5.434 | 1.04 | 0.164 | 77.2 | 354.2 | 0.3 | 0.263 |
| 4-4290 | 4-5250 | 0.947 | 145.4 | 14.9 | 1.06 | 1.297 | 42.9 | 0.860 | 2.925 | 105.5 | 182.6 | --- | 5.441 | 1.03 | 0.167 | 74.7 | 354.1 | 0.3 | 0.262 |
| 4-4290 | 4-5270 | 0.938 | 145.9 | 14.7 | 1.03 | 1.297 | 43.4 | 0.858 | 2.934 | 104.5 | 183.1 | --- | 5.450 | 1.03 | 0.171 | 72.3 | 354.0 | 0.3 | 0.262 |
| 4-4290 | 4-5290 | 0.929 | 146.4 | 14.5 | 1.01 | 1.297 | 43.9 | 0.855 | 2.944 | 103.4 | 183.5 | --- | 5.460 | 1.02 | 0.175 | 70.2 | 354.0 | 0.3 | 0.261 |
| 4-4290 | 4-5310 | 0.920 | 146.8 | 14.4 | 0.98 | 1.298 | 44.5 | 0.852 | 2.954 | 102.4 | 184.0 | --- | 5.472 | 1.02 | 0.179 | 68.2 | 354.0 | 0.3 | 0.261 |
| 4-4290 | 4-5330 | 0.911 | 147.3 | 14.2 | 0.95 | 1.298 | 45.0 | 0.850 | 2.965 | 101.3 | 184.5 | --- | 5.485 | 1.01 | 0.184 | 66.4 | 354.1 | 0.3 | 0.261 |
| 4-4290 | 4-5350 | 0.902 | 147.8 | 14.0 | 0.92 | 1.299 | 45.5 | 0.847 | 2.976 | 100.2 | 185.0 | --- | 5.498 | 1.01 | 0.188 | 64.7 | 354.2 | 0.4 | 0.261 |
| 4-4290 | 4-5370 | 0.893 | 148.3 | 13.8 | 0.90 | 1.299 | 46.1 | 0.845 | 2.988 | 99.2 | 185.4 | --- | 5.513 | 1.01 | 0.193 | 63.2 | 354.4 | 0.4 | 0.262 |
| 4-4290 | 4-5390 | 0.884 | 148.8 | 13.7 | 0.87 | 1.300 | 46.6 | 0.842 | 3.001 | 98.1 | 185.9 | --- | 5.529 | 1.01 | 0.197 | 61.8 | 354.6 | 0.4 | 0.262 |
| 4-4290 | 4-5410 | 0.874 | 149.3 | 13.5 | 0.84 | 1.300 | 47.1 | 0.840 | 3.014 | 97.0 | 186.4 | --- | 5.545 | 1.01 | 0.202 | 60.5 | 354.9 | 0.4 | 0.263 |
| 4-4290 | 4-5430 | 0.865 | 149.8 | 13.3 | 0.81 | 1.301 | 47.6 | 0.838 | 3.027 | 95.9 | 186.8 | --- | 5.562 | 1.01 | 0.206 | 59.3 | 355.3 | 0.4 | 0.263 |
| 4-4290 | 4-5450 | 0.856 | 150.3 | 13.1 | 0.79 | 1.302 | 48.2 | 0.835 | 3.041 | 94.8 | 187.3 | --- | 5.580 | 1.01 | 0.210 | 58.3 | 355.6 | 0.5 | 0.264 |
| 4-4290 | 4-5470 | 0.847 | 150.8 | 12.9 | 0.76 | 1.302 | 48.7 | 0.833 | 3.054 | 93.7 | 187.8 | --- | 5.598 | 1.01 | 0.215 | 57.2 | 356.1 | 0.5 | 0.264 |
| 4-4290 | 4-5490 | 0.838 | 151.4 | 12.7 | 0.73 | 1.303 | 49.2 | 0.831 | 3.069 | 92.6 | 188.2 | --- | 5.617 | 1.01 | 0.219 | 56.3 | 356.5 | 0.5 | 0.265 |
| 4-4290 | 4-5510 | 0.829 | 151.9 | 12.5 | 0.70 | 1.303 | 49.8 | 0.828 | 3.083 | 91.4 | 188.7 | --- | 5.636 | 1.02 | 0.224 | 55.4 | 357.0 | 0.5 | 0.266 |
| 4-4290 | 4-5530 | 0.820 | 152.4 | 12.2 | 0.67 | 1.304 | 50.3 | 0.826 | 3.098 | 90.3 | 189.1 | --- | 5.656 | 1.02 | 0.228 | 54.6 | 357.6 | 0.6 | 0.267 |
| 4-4290 | 4-5550 | 0.811 | 153.0 | 12.0 | 0.65 | 1.304 | 50.8 | 0.824 | 3.112 | 89.2 | 189.6 | --- | 5.676 | 1.02 | 0.232 | 53.9 | 358.1 | 0.6 | 0.268 |
| 4-4290 | 4-5570 | 0.802 | 153.5 | 11.8 | 0.62 | 1.305 | 51.4 | 0.822 | 3.127 | 88.0 | 190.0 | --- | 5.697 | 1.03 | 0.236 | 53.2 | 358.8 | 0.7 | 0.269 |
| 4-4290 | 4-5590 | 0.793 | 154.1 | 11.6 | 0.59 | 1.306 | 51.9 | 0.819 | 3.143 | 86.9 | 190.4 | --- | 5.718 | 1.04 | 0.241 | 52.6 | 359.4 | 0.7 | 0.270 |
| 4-4290 | 4-5610 | 0.784 | 154.6 | 11.3 | 0.56 | 1.306 | 52.5 | 0.817 | 3.158 | 85.8 | 190.9 | --- | 5.739 | 1.04 | 0.245 | 52.0 | 0.1 | 0.7 | 0.271 |
| 4-4290 | 4-5630 | 0.775 | 155.2 | 11.1 | 0.53 | 1.307 | 53.0 | 0.815 | 3.173 | 84.6 | 191.3 | --- | 5.760 | 1.05 | 0.249 | 51.4 | 0.8 | 0.8 | 0.272 |
| 4-4290 | 4-5650 | 0.766 | 155.8 | 10.8 | 0.50 | 1.307 | 53.5 | 0.813 | 3.189 | 83.4 | 191.8 | --- | 5.782 | 1.06 | 0.253 | 50.9 | 1.5 | 0.8 | 0.273 |
| 4-4290 | 4-5670 | 0.757 | 156.3 | 10.6 | 0.46 | 1.308 | 54.1 | 0.811 | 3.205 | 82.3 | 192.2 | --- | 5.804 | 1.07 | 0.257 | 50.4 | 2.3 | 0.9 | 0.274 |
| 4-4290 | 4-5690 | 0.747 | 156.9 | 10.3 | 0.43 | 1.309 | 54.6 | 0.809 | 3.221 | 81.1 | 192.6 | --- | 5.826 | 1.08 | 0.261 | 50.0 | 3.1 | 1.0 | 0.275 |
| 4-4290 | 4-5710 | 0.738 | 157.5 | 10.0 | 0.40 | 1.309 | 55.2 | 0.807 | 3.236 | 79.9 | 193.1 | --- | 5.848 | 1.10 | 0.265 | 49.5 | 3.9 | 1.0 | 0.276 |
| 4-4290 | 4-5730 | 0.729 | 158.1 | 9.8 | 0.37 | 1.310 | 55.7 | 0.805 | 3.252 | 78.7 | 193.5 | --- | 5.871 | 1.11 | 0.268 | 49.2 | 4.8 | 1.1 | 0.277 |
| 4-4290 | 4-5750 | 0.720 | 158.7 | 9.5 | 0.33 | 1.310 | 56.2 | 0.803 | 3.269 | 77.5 | 193.9 | --- | 5.894 | 1.12 | 0.272 | 48.8 | 5.7 | 1.1 | 0.278 |
| 4-4290 | 4-5770 | 0.711 | 159.4 | 9.2 | 0.29 | 1.311 | 56.8 | 0.801 | 3.285 | 76.3 | 194.3 | --- | 5.916 | 1.14 | 0.276 | 48.4 | 6.6 | 1.2 | 0.279 |
| 4-4290 | 4-5790 | 0.701 | 160.0 | 8.9 | 0.26 | 1.311 | 57.3 | 0.799 | 3.301 | 75.1 | 194.8 | --- | 5.939 | 1.16 | 0.279 | 48.1 | 7.5 | 1.3 | 0.280 |
| 4-4290 | 4-5810 | 0.692 | 160.6 | 8.6 | 0.22 | 1.312 | 57.9 | 0.798 | 3.317 | 73.9 | 195.2 | --- | 5.963 | 1.18 | 0.283 | 47.8 | 8.5 | 1.3 | 0.282 |
| 4-4290 | 4-5830 | 0.683 | 161.3 | 8.2 | 0.18 | 1.313 | 58.4 | 0.796 | 3.333 | 72.7 | 195.6 | --- | 5.986 | 1.20 | 0.286 | 47.5 | 9.4 | 1.4 | 0.283 |
| 4-4290 | 4-5850 | 0.674 | 161.9 | 7.9 | 0.14 | 1.313 | 59.0 | 0.794 | 3.350 | 71.5 | 196.0 | --- | 6.009 | 1.22 | 0.290 | 47.3 | 10.4 | 1.5 | 0.284 |
| 4-4290 | 4-5870 | 0.665 | 162.6 | 7.6 | 0.09 | 1.314 | 59.5 | 0.792 | 3.366 | 70.2 | 196.4 | --- | 6.033 | 1.25 | 0.293 | 47.0 | 11.4 | 1.5 | 0.285 |
| 4-4290 | 4-5890 | 0.655 | 163.3 | 7.2 | 0.05 | 1.314 | 60.1 | 0.790 | 3.383 | 69.0 | 196.8 | --- | 6.056 | 1.28 | 0.297 | 46.8 | 12.5 | 1.6 | 0.286 |
| 4-4300 | 4-4660 | 1.420 | 139.8 | 16.8 | 3.42 | 1.386 | 18.5 | 0.991 | 10.436 | 144.7 | 166.9 | --- | --- | 3.01 | 0.521 | 171.2 | 12.9 | 1.1 | 0.612 |
| 4-4300 | 4-4680 | 1.395 | 139.9 | 16.7 | 3.23 | 1.371 | 19.3 | 0.986 | 7.184 | 143.9 | 167.6 | --- | --- | 2.82 | 0.477 | 170.1 | 12.2 | 1.1 | 0.575 |
| 4-4300 | 4-4700 | 1.373 | 140.1 | 16.6 | 3.05 | 1.358 | 20.1 | 0.981 | 5.711 | 143.1 | 168.3 | --- | --- | 2.67 | 0.438 | 168.8 | 11.5 | 1.0 | 0.541 |
| 4-4300 | 4-4720 | 1.352 | 140.4 | 16.5 | 2.90 | 1.347 | 20.9 | 0.977 | 4.878 | 142.2 | 169.0 | --- | --- | 2.53 | 0.402 | 167.5 | 10.7 | 1.0 | 0.512 |
| 4-4300 | 4-4740 | 1.333 | 140.6 | 16.5 | 2.76 | 1.337 | 21.6 | 0.972 | 4.348 | 141.3 | 169.6 | --- | --- | 2.40 | 0.370 | 166.0 | 9.9 | 1.0 | 0.485 |
| 4-4300 | 4-4760 | 1.315 | 140.9 | 16.4 | 2.63 | 1.329 | 22.4 | 0.968 | 3.985 | 140.4 | 170.2 | --- | --- | 2.29 | 0.340 | 164.3 | 9.0 | 0.9 | 0.461 |
| 4-4300 | 4-4780 | 1.299 | 141.2 | 16.3 | 2.51 | 1.323 | 23.1 | 0.964 | 3.724 | 139.5 | 170.8 | --- | --- | 2.19 | 0.313 | 162.5 | 8.1 | 0.9 | 0.440 |
| 4-4300 | 4-4800 | 1.283 | 141.5 | 16.1 | 2.41 | 1.317 | 23.8 | 0.960 | 3.530 | 138.6 | 171.4 | --- | --- | 2.10 | 0.289 | 160.5 | 7.2 | 0.9 | 0.421 |
| 4-4300 | 4-4820 | 1.269 | 141.9 | 16.0 | 2.31 | 1.312 | 24.5 | 0.956 | 3.381 | 137.7 | 172.0 | --- | --- | 2.02 | 0.266 | 158.2 | 6.3 | 0.8 | 0.404 |
| 4-4300 | 4-4840 | 1.255 | 142.2 | 15.9 | 2.22 | 1.308 | 25.2 | 0.952 | 3.266 | 136.7 | 172.5 | --- | --- | 1.94 | 0.246 | 155.7 | 5.4 | 0.8 | 0.389 |
| 4-4300 | 4-4860 | 1.242 | 142.6 | 15.8 | 2.13 | 1.305 | 25.8 | 0.949 | 3.174 | 135.8 | 173.1 | --- | --- | 1.88 | 0.227 | 153.0 | 4.5 | 0.8 | 0.375 |
| 4-4300 | 4-4880 | 1.229 | 143.0 | 15.7 | 2.05 | 1.302 | 26.5 | 0.945 | 3.102 | 134.8 | 173.6 | --- | --- | 1.81 | 0.211 | 149.9 | 3.6 | 0.7 | 0.363 |
| 4-4300 | 4-4900 | 1.216 | 143.3 | 15.5 | 1.98 | 1.300 | 27.1 | 0.942 | 3.044 | 133.8 | 174.2 | --- | --- | 1.76 | 0.196 | 146.6 | 2.7 | 0.7 | 0.352 |
| 4-4300 | 4-4920 | 1.204 | 143.7 | 15.4 | 1.91 | 1.298 | 27.8 | 0.938 | 2.997 | 132.8 | 174.7 | --- | --- | 1.70 | 0.182 | 142.9 | 1.8 | 0.6 | 0.342 |
| 4-4300 | 4-4940 | 1.193 | 144.1 | 15.3 | 1.84 | 1.296 | 28.4 | 0.935 | 2.959 | 131.8 | 175.2 | --- | --- | 1.66 | 0.170 | 138.9 | 0.9 | 0.6 | 0.333 |
| 4-4300 | 4-4960 | 1.181 | 144.5 | 15.1 | 1.78 | 1.295 | 29.0 | 0.931 | 2.930 | 130.8 | 175.7 | --- | --- | 1.61 | 0.160 | 134.5 | 0.1 | 0.6 | 0.326 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4300 | 4-4980 | 1.170 | 144.9 | 15.0 | 1.72 | 1.294 | 29.7 | 0.928 | 2.906 | 129.8 | 176.2 | --- | --- | 1.57 | 0.152 | 129.9 | 359.3 | 0.5 | 0.319 |
| 4-4300 | 4-5000 | 1.159 | 145.3 | 14.8 | 1.67 | 1.293 | 30.3 | 0.925 | 2.888 | 128.8 | 176.7 | --- | --- | 1.53 | 0.145 | 125.0 | 358.5 | 0.5 | 0.313 |
| 4-4300 | 4-5020 | 1.148 | 145.8 | 14.7 | 1.61 | 1.292 | 30.9 | 0.922 | 2.873 | 127.7 | 177.2 | --- | --- | 1.50 | 0.139 | 119.9 | 357.8 | 0.5 | 0.307 |
| 4-4300 | 4-5040 | 1.138 | 146.2 | 14.6 | 1.56 | 1.292 | 31.5 | 0.919 | 2.863 | 126.7 | 177.6 | --- | --- | 1.46 | 0.135 | 114.7 | 357.2 | 0.4 | 0.303 |
| 4-4300 | 4-5060 | 1.128 | 146.6 | 14.4 | 1.52 | 1.292 | 32.1 | 0.916 | 2.856 | 125.7 | 178.1 | --- | --- | 1.43 | 0.133 | 109.5 | 356.6 | 0.4 | 0.298 |
| 4-4300 | 4-5080 | 1.117 | 147.0 | 14.2 | 1.47 | 1.291 | 32.7 | 0.912 | 2.852 | 124.6 | 178.6 | --- | --- | 1.41 | 0.131 | 104.3 | 356.0 | 0.4 | 0.295 |
| 4-4300 | 4-5100 | 1.107 | 147.5 | 14.1 | 1.42 | 1.291 | 33.3 | 0.909 | 2.850 | 123.6 | 179.1 | --- | --- | 1.38 | 0.131 | 99.3 | 355.5 | 0.4 | 0.292 |
| 4-4300 | 4-5120 | 1.097 | 147.9 | 13.9 | 1.38 | 1.291 | 33.9 | 0.906 | 2.850 | 122.5 | 179.5 | --- | --- | 1.36 | 0.132 | 94.6 | 355.0 | 0.4 | 0.289 |
| 4-4300 | 4-5140 | 1.087 | 148.4 | 13.8 | 1.34 | 1.291 | 34.4 | 0.903 | 2.852 | 121.4 | 180.0 | --- | --- | 1.33 | 0.133 | 90.1 | 354.6 | 0.3 | 0.287 |
| 4-4300 | 4-5160 | 1.077 | 148.8 | 13.6 | 1.30 | 1.291 | 35.0 | 0.901 | 2.855 | 120.4 | 180.4 | --- | 5.426 | 1.31 | 0.136 | 86.0 | 354.3 | 0.3 | 0.285 |
| 4-4300 | 4-5180 | 1.067 | 149.2 | 13.4 | 1.26 | 1.292 | 35.6 | 0.898 | 2.860 | 119.3 | 180.9 | --- | 5.427 | 1.29 | 0.139 | 82.2 | 354.0 | 0.3 | 0.283 |
| 4-4300 | 4-5200 | 1.058 | 149.7 | 13.3 | 1.22 | 1.292 | 36.2 | 0.895 | 2.866 | 118.2 | 181.4 | --- | 5.431 | 1.27 | 0.142 | 78.7 | 353.8 | 0.3 | 0.282 |
| 4-4300 | 4-5220 | 1.048 | 150.2 | 13.1 | 1.18 | 1.292 | 36.8 | 0.892 | 2.873 | 117.1 | 181.8 | --- | 5.436 | 1.26 | 0.146 | 75.5 | 353.7 | 0.3 | 0.280 |
| 4-4300 | 4-5240 | 1.038 | 150.6 | 12.9 | 1.14 | 1.293 | 37.3 | 0.889 | 2.882 | 116.1 | 182.2 | --- | 5.443 | 1.24 | 0.151 | 72.6 | 353.6 | 0.3 | 0.280 |
| 4-4300 | 4-5260 | 1.029 | 151.1 | 12.8 | 1.11 | 1.293 | 37.9 | 0.886 | 2.891 | 115.0 | 182.7 | --- | 5.453 | 1.23 | 0.155 | 70.0 | 353.5 | 0.3 | 0.279 |
| 4-4300 | 4-5280 | 1.019 | 151.5 | 12.6 | 1.07 | 1.294 | 38.5 | 0.883 | 2.901 | 113.9 | 183.1 | --- | 5.463 | 1.22 | 0.160 | 67.7 | 353.5 | 0.3 | 0.278 |
| 4-4300 | 4-5300 | 1.009 | 152.0 | 12.4 | 1.04 | 1.294 | 39.1 | 0.881 | 2.911 | 112.8 | 183.6 | --- | 5.475 | 1.20 | 0.164 | 65.6 | 353.6 | 0.3 | 0.278 |
| 4-4300 | 4-5320 | 1.000 | 152.5 | 12.2 | 1.00 | 1.295 | 39.6 | 0.878 | 2.922 | 111.7 | 184.0 | --- | 5.488 | 1.19 | 0.169 | 63.6 | 353.7 | 0.3 | 0.278 |
| 4-4300 | 4-5340 | 0.990 | 152.9 | 12.0 | 0.97 | 1.295 | 40.2 | 0.875 | 2.934 | 110.6 | 184.5 | --- | 5.503 | 1.18 | 0.174 | 61.9 | 353.9 | 0.3 | 0.278 |
| 4-4300 | 4-5360 | 0.981 | 153.4 | 11.8 | 0.94 | 1.296 | 40.8 | 0.873 | 2.947 | 109.4 | 184.9 | --- | 5.518 | 1.17 | 0.179 | 60.3 | 354.1 | 0.3 | 0.278 |
| 4-4300 | 4-5380 | 0.971 | 153.9 | 11.7 | 0.90 | 1.296 | 41.3 | 0.870 | 2.959 | 108.3 | 185.3 | --- | 5.534 | 1.17 | 0.184 | 58.9 | 354.4 | 0.4 | 0.278 |
| 4-4300 | 4-5400 | 0.962 | 154.4 | 11.5 | 0.87 | 1.297 | 41.9 | 0.867 | 2.973 | 107.2 | 185.8 | --- | 5.551 | 1.16 | 0.189 | 57.6 | 354.7 | 0.4 | 0.278 |
| 4-4300 | 4-5420 | 0.952 | 154.9 | 11.3 | 0.84 | 1.297 | 42.5 | 0.865 | 2.986 | 106.1 | 186.2 | --- | 5.568 | 1.15 | 0.194 | 56.4 | 355.0 | 0.4 | 0.278 |
| 4-4300 | 4-5440 | 0.943 | 155.3 | 11.1 | 0.81 | 1.298 | 43.0 | 0.862 | 3.000 | 105.0 | 186.6 | --- | 5.586 | 1.15 | 0.199 | 55.3 | 355.4 | 0.4 | 0.279 |
| 4-4300 | 4-5460 | 0.933 | 155.8 | 10.9 | 0.78 | 1.299 | 43.6 | 0.860 | 3.014 | 103.8 | 187.1 | --- | 5.605 | 1.15 | 0.204 | 54.3 | 355.9 | 0.5 | 0.279 |
| 4-4300 | 4-5480 | 0.924 | 156.3 | 10.7 | 0.74 | 1.299 | 44.2 | 0.857 | 3.029 | 102.7 | 187.5 | --- | 5.625 | 1.14 | 0.209 | 53.4 | 356.3 | 0.5 | 0.280 |
| 4-4300 | 4-5500 | 0.914 | 156.8 | 10.4 | 0.71 | 1.300 | 44.7 | 0.854 | 3.044 | 101.5 | 187.9 | --- | 5.644 | 1.14 | 0.214 | 52.6 | 356.9 | 0.5 | 0.280 |
| 4-4300 | 4-5520 | 0.905 | 157.3 | 10.2 | 0.68 | 1.300 | 45.3 | 0.852 | 3.059 | 100.4 | 188.3 | --- | 5.665 | 1.14 | 0.218 | 51.8 | 357.4 | 0.6 | 0.281 |
| 4-4300 | 4-5540 | 0.895 | 157.9 | 10.0 | 0.65 | 1.301 | 45.8 | 0.849 | 3.074 | 99.2 | 188.8 | --- | 5.685 | 1.14 | 0.223 | 51.1 | 358.0 | 0.6 | 0.282 |
| 4-4300 | 4-5560 | 0.886 | 158.4 | 9.8 | 0.62 | 1.302 | 46.4 | 0.847 | 3.089 | 98.1 | 189.2 | --- | 5.706 | 1.14 | 0.227 | 50.4 | 358.6 | 0.6 | 0.282 |
| 4-4300 | 4-5580 | 0.876 | 158.9 | 9.6 | 0.59 | 1.302 | 47.0 | 0.845 | 3.105 | 96.9 | 189.6 | --- | 5.728 | 1.14 | 0.232 | 49.8 | 359.3 | 0.7 | 0.283 |
| 4-4300 | 4-5600 | 0.867 | 159.4 | 9.3 | 0.56 | 1.303 | 47.5 | 0.842 | 3.121 | 95.8 | 190.0 | --- | 5.749 | 1.14 | 0.236 | 49.3 | 360.0 | 0.7 | 0.284 |
| 4-4300 | 4-5620 | 0.857 | 159.9 | 9.1 | 0.52 | 1.304 | 48.1 | 0.840 | 3.137 | 94.6 | 190.5 | --- | 5.771 | 1.14 | 0.241 | 48.8 | 0.7 | 0.8 | 0.285 |
| 4-4300 | 4-5640 | 0.848 | 160.5 | 8.9 | 0.49 | 1.304 | 48.7 | 0.837 | 3.153 | 93.4 | 190.9 | --- | 5.793 | 1.15 | 0.245 | 48.3 | 1.4 | 0.8 | 0.286 |
| 4-4300 | 4-5660 | 0.838 | 161.0 | 8.6 | 0.46 | 1.305 | 49.2 | 0.835 | 3.169 | 92.2 | 191.3 | --- | 5.815 | 1.15 | 0.249 | 47.9 | 2.2 | 0.9 | 0.286 |
| 4-4300 | 4-5680 | 0.829 | 161.5 | 8.4 | 0.43 | 1.305 | 49.8 | 0.833 | 3.185 | 91.0 | 191.7 | --- | 5.838 | 1.16 | 0.253 | 47.5 | 3.0 | 0.9 | 0.287 |
| 4-4300 | 4-5700 | 0.819 | 162.1 | 8.1 | 0.39 | 1.306 | 50.3 | 0.831 | 3.202 | 89.9 | 192.1 | --- | 5.861 | 1.16 | 0.258 | 47.1 | 3.8 | 1.0 | 0.288 |
| 4-4300 | 4-5720 | 0.810 | 162.7 | 7.9 | 0.36 | 1.307 | 50.9 | 0.828 | 3.218 | 88.7 | 192.6 | --- | 5.883 | 1.17 | 0.262 | 46.8 | 4.7 | 1.0 | 0.289 |
| 4-4300 | 4-5740 | 0.800 | 163.2 | 7.6 | 0.33 | 1.307 | 51.5 | 0.826 | 3.235 | 87.5 | 193.0 | --- | 5.906 | 1.18 | 0.266 | 46.4 | 5.6 | 1.1 | 0.290 |
| 4-4300 | 4-5760 | 0.791 | 163.8 | 7.3 | 0.29 | 1.308 | 52.0 | 0.824 | 3.251 | 86.3 | 193.4 | --- | 5.930 | 1.19 | 0.269 | 46.1 | 6.5 | 1.1 | 0.291 |
| 4-4300 | 4-5780 | 0.781 | 164.4 | 7.0 | 0.26 | 1.308 | 52.6 | 0.822 | 3.268 | 85.0 | 193.8 | --- | 5.953 | 1.20 | 0.273 | 45.9 | 7.4 | 1.2 | 0.292 |
| 4-4300 | 4-5800 | 0.771 | 164.9 | 6.7 | 0.22 | 1.309 | 53.2 | 0.820 | 3.284 | 83.8 | 194.2 | --- | 5.976 | 1.21 | 0.277 | 45.6 | 8.4 | 1.3 | 0.293 |
| 4-4300 | 4-5820 | 0.762 | 165.5 | 6.5 | 0.18 | 1.310 | 53.7 | 0.817 | 3.301 | 82.6 | 194.6 | --- | 6.000 | 1.23 | 0.281 | 45.4 | 9.3 | 1.3 | 0.294 |
| 4-4300 | 4-5840 | 0.752 | 166.1 | 6.2 | 0.14 | 1.310 | 54.3 | 0.815 | 3.318 | 81.4 | 195.0 | --- | 6.023 | 1.24 | 0.284 | 45.1 | 10.3 | 1.4 | 0.295 |
| 4-4300 | 4-5860 | 0.743 | 166.7 | 5.8 | 0.10 | 1.311 | 54.9 | 0.813 | 3.335 | 80.1 | 195.4 | --- | 6.047 | 1.26 | 0.288 | 44.9 | 11.3 | 1.5 | 0.296 |
| 4-4300 | 4-5880 | 0.733 | 167.4 | 5.5 | 0.06 | 1.311 | 55.5 | 0.811 | 3.352 | 78.9 | 195.9 | --- | 6.071 | 1.28 | 0.291 | 44.7 | 12.4 | 1.5 | 0.297 |
| 4-4300 | 4-5900 | 0.723 | 168.0 | 5.2 | 0.02 | 1.312 | 56.0 | 0.809 | 3.368 | 77.7 | 196.3 | --- | 6.094 | 1.30 | 0.295 | 44.6 | 13.4 | 1.6 | 0.298 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4500 | 4-4940 | 0.824 | 163.5 | 3.2 | -2.56 | 1.414 | 125.7 | 1.00606 | .051 | 288.9 | 498.7 | 0.664 | --- | 2.54 | 0.614 | 159.8 | 47.9 | 3.2 | 0.615 |
| 4-4500 | 4-4960 | 0.796 | 163.2 | 3.4 | -2.43 | 1.398 | 124.7 | 0.97527 | .124 | 289.6 | 500.8 | 0.675 | --- | 2.42 | 0.575 | 158.4 | 48.1 | 3.2 | 0.577 |
| 4-4500 | 4-4980 | 0.772 | 162.9 | 3.6 | -2.31 | 1.383 | 123.9 | 0.94813 | .067 | 290.1 | 502.9 | 0.684 | --- | 2.32 | 0.539 | 156.9 | 48.1 | 3.2 | 0.542 |
| 4-4500 | 4-5000 | 0.750 | 162.6 | 3.7 | -2.20 | 1.371 | 123.1 | 0.923 | 9.038 | 290.6 | 504.9 | 0.693 | --- | 2.23 | 0.507 | 155.3 | 48.1 | 3.2 | 0.509 |
| 4-4500 | 4-5020 | 0.731 | 162.4 | 3.9 | -2.10 | 1.360 | 122.4 | 0.902 | 7.139 | 291.1 | 506.9 | 0.700 | --- | 2.15 | 0.477 | 153.6 | 48.1 | 3.2 | 0.480 |
| 4-4500 | 4-5040 | 0.714 | 162.1 | 4.1 | -2.01 | 1.351 | 121.8 | 0.883 | 6.040 | 291.5 | 508.8 | 0.707 | --- | 2.07 | 0.449 | 151.9 | 47.9 | 3.2 | 0.453 |
| 4-4500 | 4-5060 | 0.699 | 162.0 | 4.2 | -1.92 | 1.343 | 121.3 | 0.866 | 5.328 | 291.9 | 510.7 | 0.713 | --- | 2.01 | 0.424 | 150.0 | 47.7 | 3.3 | 0.428 |
| 4-4500 | 4-5080 | 0.686 | 161.8 | 4.4 | -1.84 | 1.335 | 120.8 | 0.851 | 4.832 | 292.2 | 512.5 | 0.718 | --- | 1.94 | 0.401 | 148.1 | 47.4 | 3.3 | 0.405 |
| 4-4500 | 4-5100 | 0.675 | 161.7 | 4.5 | -1.76 | 1.329 | 120.4 | 0.838 | 4.470 | 292.5 | 514.3 | 0.722 | --- | 1.88 | 0.380 | 146.1 | 47.0 | 3.3 | 0.384 |
| 4-4500 | 4-5120 | 0.665 | 161.6 | 4.7 | -1.69 | 1.324 | 120.0 | 0.827 | 4.195 | 292.7 | 516.1 | 0.726 | --- | 1.83 | 0.360 | 144.0 | 46.5 | 3.3 | 0.365 |
| 4-4500 | 4-5140 | 0.656 | 161.5 | 4.8 | -1.62 | 1.319 | 119.7 | 0.817 | 3.980 | 292.9 | 517.8 | 0.729 | --- | 1.78 | 0.342 | 141.7 | 45.9 | 3.3 | 0.347 |
| 4-4500 | 4-5160 | 0.649 | 161.5 | 4.9 | -1.55 | 1.314 | 119.5 | 0.808 | 3.810 | 293.0 | 519.4 | 0.731 | --- | 1.73 | 0.326 | 139.4 | 45.2 | 3.3 | 0.331 |
| 4-4500 | 4-5180 | 0.643 | 161.5 | 5.0 | -1.49 | 1.311 | 119.3 | 0.800 | 3.672 | 293.0 | 521.0 | 0.733 | --- | 1.69 | 0.311 | 137.0 | 44.5 | 3.3 | 0.316 |
| 4-4500 | 4-5200 | 0.638 | 161.5 | 5.1 | -1.43 | 1.307 | 119.1 | 0.794 | 3.559 | 293.0 | 522.5 | 0.734 | --- | 1.65 | 0.297 | 134.5 | 43.6 | 3.3 | 0.303 |
| 4-4500 | 4-5220 | 0.635 | 161.6 | 5.1 | -1.37 | 1.305 | 119.0 | 0.788 | 3.466 | 293.0 | 524.0 | 0.735 | --- | 1.62 | 0.284 | 131.9 | 42.7 | 3.3 | 0.290 |
| 4-4500 | 4-5240 | 0.632 | 161.7 | 5.2 | -1.32 | 1.302 | 119.0 | 0.783 | 3.388 | 292.9 | 525.4 | 0.735 | --- | 1.58 | 0.273 | 129.2 | 41.6 | 3.2 | 0.279 |
| 4-4500 | 4-5260 | 0.629 | 161.8 | 5.2 | -1.27 | 1.300 | 118.9 | 0.779 | 3.323 | 292.7 | 526.8 | 0.735 | --- | 1.55 | 0.263 | 126.4 | 40.5 | 3.2 | 0.269 |
| 4-4500 | 4-5280 | 0.628 | 162.0 | 5.3 | -1.21 | 1.298 | 118.9 | 0.775 | 3.268 | 292.5 | 528.1 | 0.734 | --- | 1.52 | 0.254 | 123.5 | 39.3 | 3.2 | 0.260 |
| 4-4500 | 4-5300 | 0.628 | 162.1 | 5.3 | -1.17 | 1.296 | 119.0 | 0.773 | 3.222 | 292.2 | 529.4 | 0.733 | --- | 1.50 | 0.245 | 120.6 | 38.1 | 3.1 | 0.252 |
| 4-4500 | 4-5320 | 0.628 | 162.4 | 5.3 | -1.12 | 1.295 | 119.0 | 0.770 | 3.183 | 291.9 | 530.6 | 0.731 | --- | 1.47 | 0.238 | 117.6 | 36.8 | 3.1 | 0.245 |
| 4-4500 | 4-5340 | 0.628 | 162.6 | 5.3 | -1.07 | 1.293 | 119.1 | 0.769 | 3.149 | 291.6 | 531.8 | 0.729 | --- | 1.45 | 0.232 | 114.5 | 35.5 | 3.1 | 0.239 |
| 4-4500 | 4-5360 | 0.630 | 162.9 | 5.3 | -1.03 | 1.292 | 119.2 | 0.767 | 3.121 | 291.2 | 533.0 | 0.726 | --- | 1.43 | 0.226 | 111.5 | 34.1 | 3.0 | 0.234 |
| 4-4500 | 4-5380 | 0.632 | 163.1 | 5.3 | -0.99 | 1.291 | 119.4 | 0.766 | 3.098 | 290.8 | 534.1 | 0.723 | --- | 1.41 | 0.221 | 108.4 | 32.7 | 2.9 | 0.230 |
| 4-4500 | 4-5400 | 0.634 | 163.5 | 5.2 | -0.94 | 1.291 | 119.6 | 0.766 | 3.078 | 290.3 | 535.2 | 0.720 | --- | 1.39 | 0.218 | 105.3 | 31.4 | 2.9 | 0.226 |
| 4-4500 | 4-5420 | 0.638 | 163.8 | 5.2 | -0.90 | 1.290 | 119.8 | 0.766 | 3.061 | 289.8 | 536.2 | 0.716 | --- | 1.37 | 0.214 | 102.2 | 30.0 | 2.8 | 0.223 |
| 4-4500 | 4-5440 | 0.641 | 164.1 | 5.1 | -0.86 | 1.289 | 120.0 | 0.766 | 3.048 | 289.2 | 537.2 | 0.712 | --- | 1.36 | 0.212 | 99.1 | 28.7 | 2.8 | 0.221 |
| 4-4500 | 4-5460 | 0.645 | 164.5 | 5.1 | -0.82 | 1.289 | 120.3 | 0.767 | 3.037 | 288.6 | 538.2 | 0.708 | --- | 1.34 | 0.210 | 96.1 | 27.5 | 2.7 | 0.220 |
| 4-4500 | 4-5480 | 0.650 | 164.9 | 5.0 | -0.78 | 1.288 | 120.6 | 0.768 | 3.028 | 287.9 | 539.1 | 0.703 | --- | 1.33 | 0.209 | 93.1 | 26.3 | 2.6 | 0.219 |
| 4-4500 | 4-5500 | 0.655 | 165.3 | 4.9 | -0.75 | 1.288 | 120.9 | 0.769 | 3.021 | 287.2 | 540.0 | 0.698 | --- | 1.32 | 0.208 | 90.2 | 25.1 | 2.6 | 0.219 |
| 4-4500 | 4-5520 | 0.660 | 165.8 | 4.8 | -0.71 | 1.288 | 121.2 | 0.771 | 3.017 | 286.5 | 540.8 | 0.692 | 5.341 | 1.31 | 0.208 | 87.3 | 24.1 | 2.5 | 0.220 |
| 4-4500 | 4-5540 | 0.666 | 166.2 | 4.7 | -0.67 | 1.288 | 121.6 | 0.772 | 3.013 | 285.8 | 541.6 | 0.686 | 5.340 | 1.30 | 0.208 | 84.5 | 23.1 | 2.4 | 0.221 |
| 4-4500 | 4-5560 | 0.673 | 166.7 | 4.6 | -0.63 | 1.288 | 121.9 | 0.774 | 3.011 | 285.0 | 542.4 | 0.680 | 5.343 | 1.29 | 0.208 | 81.9 | 22.3 | 2.4 | 0.222 |
| 4-4500 | 4-5580 | 0.679 | 167.2 | 4.5 | -0.60 | 1.288 | 122.3 | 0.777 | 3.011 | 284.1 | 543.1 | 0.673 | 5.349 | 1.28 | 0.209 | 79.3 | 21.6 | 2.3 | 0.224 |
| 4-4500 | 4-5600 | 0.687 | 167.7 | 4.3 | -0.56 | 1.288 | 122.8 | 0.779 | 3.011 | 283.3 | 543.9 | 0.666 | 5.357 | 1.27 | 0.210 | 76.8 | 20.9 | 2.3 | 0.226 |
| 4-4500 | 4-5620 | 0.694 | 168.2 | 4.2 | -0.53 | 1.288 | 123.2 | 0.782 | 3.013 | 282.3 | 544.6 | 0.658 | 5.368 | 1.27 | 0.212 | 74.3 | 20.4 | 2.2 | 0.229 |
| 4-4500 | 4-5640 | 0.702 | 168.7 | 4.1 | -0.49 | 1.288 | 123.6 | 0.784 | 3.016 | 281.4 | 545.2 | 0.651 | 5.381 | 1.26 | 0.214 | 72.0 | 19.9 | 2.2 | 0.231 |
| 4-4500 | 4-5660 | 0.710 | 169.2 | 3.9 | -0.46 | 1.288 | 124.1 | 0.787 | 3.019 | 280.4 | 545.8 | 0.642 | 5.396 | 1.26 | 0.216 | 69.8 | 19.6 | 2.1 | 0.235 |
| 4-4500 | 4-5680 | 0.719 | 169.8 | 3.7 | -0.42 | 1.288 | 124.6 | 0.790 | 3.024 | 279.4 | 546.4 | 0.634 | 5.413 | 1.26 | 0.218 | 67.6 | 19.4 | 2.1 | 0.238 |
| 4-4500 | 4-5700 | 0.728 | 170.3 | 3.6 | -0.38 | 1.288 | 125.1 | 0.794 | 3.029 | 278.4 | 547.0 | 0.625 | 5.432 | 1.26 | 0.220 | 65.5 | 19.3 | 2.1 | 0.242 |
| 4-4500 | 4-5720 | 0.737 | 170.9 | 3.4 | -0.35 | 1.289 | 125.7 | 0.797 | 3.034 | 277.3 | 547.5 | 0.616 | 5.453 | 1.26 | 0.223 | 63.5 | 19.3 | 2.0 | 0.246 |
| 4-4500 | 4-5740 | 0.747 | 171.4 | 3.2 | -0.31 | 1.289 | 126.2 | 0.801 | 3.041 | 276.2 | 548.0 | 0.606 | 5.475 | 1.26 | 0.225 | 61.6 | 19.3 | 2.0 | 0.250 |
| 4-4500 | 4-5760 | 0.757 | 172.0 | 3.0 | -0.28 | 1.289 | 126.8 | 0.804 | 3.048 | 275.1 | 548.5 | 0.596 | 5.499 | 1.26 | 0.228 | 59.8 | 19.5 | 2.0 | 0.254 |
| 4-4500 | 4-5780 | 0.768 | 172.6 | 2.8 | -0.24 | 1.290 | 127.4 | 0.808 | 3.055 | 273.9 | 549.0 | 0.586 | 5.524 | 1.26 | 0.231 | 58.0 | 19.7 | 2.0 | 0.259 |
| 4-4500 | 4-5800 | 0.779 | 173.2 | 2.6 | -0.21 | 1.290 | 128.0 | 0.812 | 3.063 | 272.7 | 549.4 | 0.576 | 5.551 | 1.27 | 0.234 | 56.3 | 20.1 | 2.0 | 0.263 |
| 4-4500 | 4-5820 | 0.790 | 173.8 | 2.4 | -0.17 | 1.290 | 128.6 | 0.816 | 3.072 | 271.5 | 549.8 | 0.565 | 5.579 | 1.27 | 0.237 | 54.6 | 20.5 | 2.0 | 0.268 |
| 4-4500 | 4-5840 | 0.801 | 174.5 | 2.2 | -0.13 | 1.291 | 129.3 | 0.820 | 3.081 | 270.2 | 550.2 | 0.554 | 5.608 | 1.28 | 0.240 | 53.0 | 21.0 | 2.0 | 0.273 |
| 4-4500 | 4-5860 | 0.813 | 175.1 | 2.0 | -0.10 | 1.291 | 130.0 | 0.825 | 3.090 | 268.9 | 550.5 | 0.542 | 5.638 | 1.28 | 0.243 | 51.5 | 21.5 | 2.0 | 0.278 |
| 4-4500 | 4-5880 | 0.825 | 175.7 | 1.8 | -0.06 | 1.291 | 130.6 | 0.829 | 3.099 | 267.6 | 550.8 | 0.530 | 5.669 | 1.29 | 0.246 | 50.0 | 22.2 | 2.0 | 0.283 |
| 4-4500 | 4-5900 | 0.838 | 176.4 | 1.6 | -0.02 | 1.292 | 131.4 | 0.833 | 3.109 | 266.2 | 551.1 | 0.518 | 5.701 | 1.30 | 0.250 | 48.5 | 22.9 | 2.0 | 0.289 |
| 4-4500 | 4-5920 | 0.851 | 177.0 | 1.3 | 0.02 | 1.292 | 132.1 | 0.838 | 3.120 | 264.8 | 551.4 | 0.505 | 5.734 | 1.31 | 0.253 | 47.1 | 23.6 | 2.1 | 0.294 |
| 4-4500 | 4-5940 | 0.864 | 177.7 | 1.1 | 0.06 | 1.293 | 132.8 | 0.843 | 3.130 | 263.4 | 551.6 | 0.492 | 5.768 | 1.32 | 0.256 | 45.8 | 24.4 | 2.1 | 0.300 |
| 4-4500 | 4-5960 | 0.878 | 178.3 | 0.8 | 0.10 | 1.293 | 133.6 | 0.847 | 3.141 | 261.9 | 551.9 | 0.479 | 5.803 | 1.34 | 0.259 | 44.4 | 25.3 | 2.1 | 0.305 |
| 4-4500 | 4-5980 | 0.892 | 179.0 | 0.6 | 0.14 | 1.293 | 134.4 | 0.852 | 3.153 | 260.5 | 552.1 | 0.466 | 5.839 | 1.35 | 0.262 | 43.1 | 26.3 | 2.1 | 0.311 |
| 4-4500 | 4-6000 | 0.906 | 179.7 | 0.3 | 0.19 | 1.294 | 135.2 | 0.857 | 3.164 | 258.9 | 552.2 | 0.452 | 5.876 | 1.37 | 0.266 | 41.8 | 27.3 | 2.2 | 0.317 |
| 4-4500 | 4-6020 | 0.920 | 180.4 | 0.1 | 0.23 | 1.294 | 136.0 | 0.862 | 3.176 | 257.4 | 552.4 | 0.438 | 5.913 | 1.39 | 0.269 | 40.6 | 28.3 | 2.2 | 0.323 |
| 4-4500 | 4-6040 | 0.935 | 181.1 | -0.2 | 0.28 | 1.295 | 136.9 | 0.867 | 3.188 | 255.8 | 552.5 | 0.424 | 5.952 | 1.41 | 0.272 | 39.4 | 29.4 | 2.2 | 0.329 |
| 4-4500 | 4-6060 | 0.951 | 181.8 | -0.4 | 0.32 | 1.295 | 137.7 | 0.872 | 3.200 | 254.2 | 552.6 | 0.410 | 5.990 | 1.43 | 0.275 | 38.1 | 30.5 | 2.3 | 0.335 |
| 4-4500 | 4-6080 | 0.966 | 182.5 | -0.7 | 0.37 | 1.296 | 138.6 | 0.877 | 3.212 | 252.6 | 552.6 | 0.395 | 6.030 | 1.45 | 0.278 | 37.0 | 31.7 | 2.3 | 0.341 |
| 4-4500 | 4-6100 | 0.982 | 183.2 | -1.0 | 0.42 | 1.296 | 139.5 | 0.882 | 3.225 | 250.9 | 552.6 | 0.380 | 6.070 | 1.48 | 0.281 | 35.8 | 32.9 | 2.4 | 0.348 |
| 4-4510 | 4-4950 | 0.770 | 167.7 | -0.8 | -3.57 | 1.418 | 122.2 | 1.01166 | .019 | 295.9 | 496.6 | 0.719 | --- | 3.68 | 0.618 | 159.1 | 49.5 | 3.7 | 0.614 |
| 4-4510 | 4-4970 | 0.742 | 167.4 | -0.4 | -3.32 | 1.402 | 121.3 | 0.97731 | .977 | 296.6 | 498.8 | 0.729 | --- | 3.44 | 0.580 | 157.7 | 49.6 | 3.7 | 0.576 |
| 4-4510 | 4-4990 | 0.717 | 167.0 | -0.1 | -3.09 | 1.387 | 120.4 | 0.94814 | .071 | 297.3 | 501.0 | 0.738 | --- | 3.23 | 0.544 | 156.1 | 49.8 | 3.7 | 0.541 |
| 4-4510 | 4-5010 | 0.695 | 166.7 | 0.3 | -2.89 | 1.375 | 119.7 | 0.921 | 9.497 | 297.9 | 503.1 | 0.746 | --- | 3.05 | 0.512 | 154.6 | 49.8 | 3.7 | 0.509 |
| 4-4510 | 4-5030 | 0.675 | 166.5 | 0.6 | -2.71 | 1.364 | 119.0 | 0.898 | 7.416 | 298.4 | 505.1 | 0.753 | --- | 2.89 | 0.482 | 152.9 | 49.8 | 3.7 | 0.479 |
| 4-4510 | 4-5050 | 0.658 | 166.2 | 0.9 | -2.55 | 1.355 | 118.4 | 0.878 | 6.233 | 298.9 | 507.2 | 0.760 | --- | 2.74 | 0.455 | 151.2 | 49.7 | 3.7 | 0.452 |
| 4-4510 | 4-5070 | 0.643 | 166.0 | 1.2 | -2.41 | 1.347 | 117.8 | 0.860 | 5.474 | 299.3 | 509.1 | 0.766 | --- | 2.61 | 0.430 | 149.3 | 49.5 | 3.7 | 0.427 |
| 4-4510 | 4-5090 | 0.630 | 165.8 | 1.4 | -2.27 | 1.339 | 117.3 | 0.844 | 4.949 | 299.7 | 511.0 | 0.771 | --- | 2.50 | 0.407 | 147.4 | 49.2 | 3.7 | 0.404 |
| 4-4510 | 4-5110 | 0.619 | 165.7 | 1.6 | -2.15 | 1.333 | 116.9 | 0.830 | 4.567 | 300.0 | 512.9 | 0.775 | --- | 2.40 | 0.386 | 145.4 | 48.9 | 3.7 | 0.383 |
| 4-4510 | 4-5130 | 0.608 | 165.5 | 1.9 | -2.04 | 1.327 | 116.6 | 0.818 | 4.278 | 300.3 | 514.7 | 0.779 | --- | 2.30 | 0.367 | 143.3 | 48.4 | 3.7 | 0.364 |
| 4-4510 | 4-5150 | 0.600 | 165.5 | 2.1 | -1.93 | 1.323 | 116.2 | 0.807 | 4.054 | 300.5 | 516.4 | 0.782 | --- | 2.22 | 0.349 | 141.1 | 47.9 | 3.7 | 0.346 |
| 4-4510 | 4-5170 | 0.592 | 165.4 | 2.3 | -1.83 | 1.318 | 116.0 | 0.798 | 3.876 | 300.7 | 518.1 | 0.784 | --- | 2.14 | 0.333 | 138.9 | 47.3 | 3.7 | 0.329 |
| 4-4510 | 4-5190 | 0.586 | 165.4 | 2.4 | -1.74 | 1.315 | 115.8 | 0.789 | 3.732 | 300.8 | 519.7 | 0.786 | --- | 2.07 | 0.318 | 136.5 | 46.6 | 3.7 | 0.314 |
| 4-4510 | 4-5210 | 0.581 | 165.4 | 2.6 | -1.66 | 1.311 | 115.6 | 0.782 | 3.615 | 300.9 | 521.3 | 0.788 | --- | 2.00 | 0.304 | 134.0 | 45.8 | 3.7 | 0.301 |
| 4-4510 | 4-5230 | 0.577 | 165.5 | 2.7 | -1.58 | 1.308 | 115.5 | 0.776 | 3.517 | 300.9 | 522.8 | 0.789 | --- | 1.94 | 0.292 | 131.5 | 44.9 | 3.6 | 0.288 |
| 4-4510 | 4-5250 | 0.574 | 165.6 | 2.8 | -1.50 | 1.306 | 115.4 | 0.770 | 3.436 | 300.8 | 524.3 | 0.789 | --- | 1.89 | 0.281 | 128.9 | 43.9 | 3.6 | 0.277 |
| 4-4510 | 4-5270 | 0.571 | 165.7 | 2.9 | -1.43 | 1.303 | 115.3 | 0.766 | 3.368 | 300.7 | 525.7 | 0.789 | --- | 1.83 | 0.271 | 126.2 | 42.9 | 3.6 | 0.266 |
| 4-4510 | 4-5290 | 0.569 | 165.8 | 3.0 | -1.36 | 1.301 | 115.3 | 0.762 | 3.311 | 300.5 | 527.1 | 0.789 | --- | 1.79 | 0.262 | 123.4 | 41.7 | 3.6 | 0.257 |
| 4-4510 | 4-5310 | 0.568 | 166.0 | 3.1 | -1.30 | 1.300 | 115.3 | 0.758 | 3.263 | 300.3 | 528.5 | 0.788 | --- | 1.74 | 0.253 | 120.6 | 40.5 | 3.5 | 0.249 |
| 4-4510 | 4-5330 | 0.568 | 166.3 | 3.1 | -1.24 | 1.298 | 115.4 | 0.756 | 3.222 | 300.1 | 529.8 | 0.787 | --- | 1.70 | 0.246 | 117.7 | 39.3 | 3.5 | 0.242 |
| 4-4510 | 4-5350 | 0.568 | 166.5 | 3.1 | -1.18 | 1.297 | 115.5 | 0.754 | 3.187 | 299.8 | 531.0 | 0.785 | --- | 1.67 | 0.240 | 114.8 | 38.0 | 3.4 | 0.235 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4510 | 4-5370 | 0.569 | 166.8 | 3.2 | -1.12 | 1.296 | 115.6 | 0.752 | 3.157 | 299.4 | 532.2 | 0.783 | --- | 1.63 | 0.235 | 111.8 | 36.6 | 3.4 | 0.230 |
| 4-4510 | 4-5390 | 0.571 | 167.1 | 3.2 | -1.07 | 1.295 | 115.7 | 0.751 | 3.133 | 299.0 | 533.4 | 0.781 | --- | 1.60 | 0.230 | 108.9 | 35.3 | 3.3 | 0.225 |
| 4-4510 | 4-5410 | 0.573 | 167.4 | 3.2 | -1.02 | 1.294 | 115.9 | 0.750 | 3.112 | 298.6 | 534.5 | 0.778 | --- | 1.57 | 0.226 | 105.9 | 33.9 | 3.3 | 0.221 |
| 4-4510 | 4-5430 | 0.575 | 167.8 | 3.1 | -0.96 | 1.293 | 116.0 | 0.749 | 3.094 | 298.1 | 535.6 | 0.775 | --- | 1.54 | 0.223 | 102.9 | 32.6 | 3.2 | 0.218 |
| 4-4510 | 4-5450 | 0.578 | 168.1 | 3.1 | -0.92 | 1.293 | 116.2 | 0.749 | 3.080 | 297.6 | 536.6 | 0.772 | --- | 1.51 | 0.220 | 100.0 | 31.2 | 3.1 | 0.215 |
| 4-4510 | 4-5470 | 0.582 | 168.5 | 3.1 | -0.87 | 1.292 | 116.5 | 0.750 | 3.068 | 297.0 | 537.6 | 0.768 | --- | 1.49 | 0.218 | 97.2 | 30.0 | 3.0 | 0.214 |
| 4-4510 | 4-5490 | 0.586 | 168.9 | 3.0 | -0.82 | 1.292 | 116.7 | 0.750 | 3.058 | 296.4 | 538.6 | 0.764 | --- | 1.47 | 0.217 | 94.3 | 28.7 | 3.0 | 0.213 |
| 4-4510 | 4-5510 | 0.590 | 169.4 | 2.9 | -0.78 | 1.292 | 117.0 | 0.751 | 3.051 | 295.8 | 539.5 | 0.759 | --- | 1.45 | 0.216 | 91.6 | 27.5 | 2.9 | 0.212 |
| 4-4510 | 4-5530 | 0.595 | 169.8 | 2.8 | -0.73 | 1.291 | 117.3 | 0.752 | 3.046 | 295.1 | 540.4 | 0.754 | 5.337 | 1.43 | 0.215 | 88.9 | 26.5 | 2.8 | 0.212 |
| 4-4510 | 4-5550 | 0.601 | 170.3 | 2.7 | -0.69 | 1.291 | 117.6 | 0.754 | 3.042 | 294.4 | 541.2 | 0.749 | 5.334 | 1.41 | 0.216 | 86.2 | 25.4 | 2.7 | 0.213 |
| 4-4510 | 4-5570 | 0.606 | 170.8 | 2.6 | -0.65 | 1.291 | 118.0 | 0.755 | 3.039 | 293.6 | 542.1 | 0.744 | 5.335 | 1.40 | 0.216 | 83.7 | 24.5 | 2.7 | 0.214 |
| 4-4510 | 4-5590 | 0.612 | 171.3 | 2.5 | -0.61 | 1.291 | 118.3 | 0.757 | 3.038 | 292.8 | 542.9 | 0.738 | 5.338 | 1.38 | 0.217 | 81.2 | 23.7 | 2.6 | 0.215 |
| 4-4510 | 4-5610 | 0.619 | 171.8 | 2.4 | -0.57 | 1.291 | 118.7 | 0.759 | 3.038 | 292.0 | 543.6 | 0.732 | 5.345 | 1.37 | 0.218 | 78.8 | 23.0 | 2.5 | 0.217 |
| 4-4510 | 4-5630 | 0.626 | 172.4 | 2.3 | -0.53 | 1.291 | 119.1 | 0.761 | 3.039 | 291.1 | 544.4 | 0.725 | 5.354 | 1.36 | 0.219 | 76.5 | 22.4 | 2.5 | 0.219 |
| 4-4510 | 4-5650 | 0.633 | 172.9 | 2.1 | -0.49 | 1.291 | 119.5 | 0.764 | 3.042 | 290.2 | 545.1 | 0.718 | 5.365 | 1.35 | 0.221 | 74.3 | 21.9 | 2.4 | 0.221 |
| 4-4510 | 4-5670 | 0.640 | 173.5 | 2.0 | -0.45 | 1.291 | 120.0 | 0.766 | 3.045 | 289.3 | 545.7 | 0.711 | 5.378 | 1.34 | 0.223 | 72.1 | 21.5 | 2.4 | 0.224 |
| 4-4510 | 4-5690 | 0.648 | 174.1 | 1.8 | -0.41 | 1.291 | 120.4 | 0.769 | 3.049 | 288.4 | 546.4 | 0.704 | 5.394 | 1.33 | 0.225 | 70.1 | 21.2 | 2.3 | 0.227 |
| 4-4510 | 4-5710 | 0.657 | 174.6 | 1.6 | -0.37 | 1.292 | 120.9 | 0.772 | 3.053 | 287.4 | 547.0 | 0.696 | 5.411 | 1.32 | 0.227 | 68.1 | 21.0 | 2.3 | 0.231 |
| 4-4510 | 4-5730 | 0.665 | 175.2 | 1.5 | -0.34 | 1.292 | 121.4 | 0.775 | 3.059 | 286.3 | 547.6 | 0.688 | 5.430 | 1.31 | 0.229 | 66.2 | 20.9 | 2.3 | 0.234 |
| 4-4510 | 4-5750 | 0.674 | 175.8 | 1.3 | -0.30 | 1.292 | 121.9 | 0.778 | 3.065 | 285.3 | 548.1 | 0.679 | 5.450 | 1.31 | 0.232 | 64.3 | 20.9 | 2.2 | 0.238 |
| 4-4510 | 4-5770 | 0.683 | 176.4 | 1.1 | -0.26 | 1.292 | 122.5 | 0.782 | 3.071 | 284.2 | 548.7 | 0.670 | 5.472 | 1.30 | 0.234 | 62.6 | 20.9 | 2.2 | 0.242 |
| 4-4510 | 4-5790 | 0.693 | 177.1 | 0.9 | -0.22 | 1.293 | 123.0 | 0.785 | 3.078 | 283.1 | 549.2 | 0.661 | 5.496 | 1.30 | 0.237 | 60.9 | 21.1 | 2.2 | 0.246 |
| 4-4510 | 4-5810 | 0.703 | 177.7 | 0.7 | -0.19 | 1.293 | 123.6 | 0.789 | 3.086 | 281.9 | 549.7 | 0.651 | 5.520 | 1.30 | 0.240 | 59.2 | 21.4 | 2.2 | 0.250 |
| 4-4510 | 4-5830 | 0.713 | 178.3 | 0.5 | -0.15 | 1.293 | 124.2 | 0.793 | 3.094 | 280.7 | 550.1 | 0.641 | 5.546 | 1.30 | 0.242 | 57.6 | 21.7 | 2.2 | 0.255 |
| 4-4510 | 4-5850 | 0.724 | 179.0 | 0.3 | -0.11 | 1.294 | 124.8 | 0.797 | 3.103 | 279.5 | 550.5 | 0.631 | 5.574 | 1.30 | 0.245 | 56.1 | 22.1 | 2.2 | 0.259 |
| 4-4510 | 4-5870 | 0.735 | 179.6 | 0.0 | -0.07 | 1.294 | 125.4 | 0.801 | 3.111 | 278.3 | 550.9 | 0.621 | 5.602 | 1.30 | 0.248 | 54.6 | 22.6 | 2.2 | 0.264 |
| 4-4510 | 4-5890 | 0.746 | 180.3 | -0.2 | -0.04 | 1.294 | 126.0 | 0.805 | 3.121 | 277.0 | 551.3 | 0.610 | 5.632 | 1.30 | 0.251 | 53.2 | 23.2 | 2.2 | 0.269 |
| 4-4510 | 4-5910 | 0.758 | 180.9 | -0.4 | 0.00 | 1.295 | 126.7 | 0.809 | 3.130 | 275.7 | 551.7 | 0.599 | 5.662 | 1.31 | 0.254 | 51.8 | 23.8 | 2.2 | 0.274 |
| 4-4510 | 4-5930 | 0.770 | 181.6 | -0.6 | 0.04 | 1.295 | 127.4 | 0.813 | 3.140 | 274.4 | 552.0 | 0.587 | 5.694 | 1.31 | 0.257 | 50.4 | 24.5 | 2.2 | 0.279 |
| 4-4510 | 4-5950 | 0.782 | 182.3 | -0.9 | 0.08 | 1.296 | 128.1 | 0.817 | 3.151 | 273.0 | 552.3 | 0.575 | 5.726 | 1.32 | 0.260 | 49.1 | 25.3 | 2.2 | 0.284 |
| 4-4510 | 4-5970 | 0.795 | 183.0 | -1.1 | 0.12 | 1.296 | 128.8 | 0.822 | 3.161 | 271.6 | 552.6 | 0.563 | 5.760 | 1.32 | 0.263 | 47.8 | 26.1 | 2.2 | 0.290 |
| 4-4510 | 4-5990 | 0.808 | 183.7 | -1.4 | 0.16 | 1.296 | 129.5 | 0.827 | 3.172 | 270.2 | 552.8 | 0.550 | 5.794 | 1.33 | 0.267 | 46.6 | 27.0 | 2.3 | 0.295 |
| 4-4510 | 4-6010 | 0.821 | 184.4 | -1.6 | 0.20 | 1.297 | 130.2 | 0.831 | 3.183 | 268.7 | 553.1 | 0.537 | 5.829 | 1.34 | 0.270 | 45.4 | 27.9 | 2.3 | 0.300 |
| 4-4510 | 4-6030 | 0.835 | 185.1 | -1.9 | 0.24 | 1.297 | 131.0 | 0.836 | 3.195 | 267.3 | 553.3 | 0.524 | 5.865 | 1.35 | 0.273 | 44.2 | 28.9 | 2.3 | 0.306 |
| 4-4510 | 4-6050 | 0.849 | 185.8 | -2.2 | 0.28 | 1.298 | 131.8 | 0.841 | 3.206 | 265.8 | 553.5 | 0.511 | 5.902 | 1.36 | 0.276 | 43.0 | 29.9 | 2.4 | 0.312 |
| 4-4510 | 4-6070 | 0.863 | 186.5 | -2.4 | 0.32 | 1.298 | 132.6 | 0.846 | 3.218 | 264.2 | 553.6 | 0.497 | 5.939 | 1.38 | 0.279 | 41.8 | 31.0 | 2.4 | 0.317 |
| 4-4510 | 4-6090 | 0.878 | 187.2 | -2.7 | 0.37 | 1.299 | 133.4 | 0.851 | 3.230 | 262.7 | 553.7 | 0.483 | 5.978 | 1.39 | 0.282 | 40.7 | 32.1 | 2.4 | 0.323 |
| 4-4510 | 4-6110 | 0.893 | 187.9 | -3.0 | 0.41 | 1.299 | 134.3 | 0.856 | 3.242 | 261.1 | 553.8 | 0.468 | 6.017 | 1.41 | 0.285 | 39.6 | 33.2 | 2.5 | 0.329 |
| 4-4520 | 4-4960 | 0.719 | 170.3 | -7.7 | -6.25 | 1.421 | 118.6 | 1.01 | 453.562 | 303.2 | 494.8 | 0.771 | --- | 6.47 | 0.621 | 158.4 | 50.8 | 4.8 | 0.613 |
| 4-4520 | 4-4980 | 0.690 | 170.1 | -6.5 | -5.50 | 1.405 | 117.7 | 0.97 | 836.112 | 303.9 | 497.1 | 0.781 | --- | 5.73 | 0.583 | 156.9 | 51.0 | 4.7 | 0.574 |
| 4-4520 | 4-5000 | 0.664 | 169.8 | -5.6 | -4.90 | 1.391 | 116.9 | 0.94 | 714.828 | 304.6 | 499.3 | 0.790 | --- | 5.15 | 0.548 | 155.4 | 51.2 | 4.6 | 0.539 |
| 4-4520 | 4-5020 | 0.641 | 169.6 | -4.8 | -4.41 | 1.378 | 116.1 | 0.919 | 9.838 | 305.3 | 501.5 | 0.797 | --- | 4.68 | 0.516 | 153.8 | 51.3 | 4.5 | 0.507 |
| 4-4520 | 4-5040 | 0.621 | 169.3 | -4.1 | -4.00 | 1.368 | 115.4 | 0.894 | 7.623 | 305.9 | 503.6 | 0.804 | --- | 4.29 | 0.486 | 152.2 | 51.3 | 4.4 | 0.477 |
| 4-4520 | 4-5060 | 0.604 | 169.1 | -3.5 | -3.66 | 1.358 | 114.8 | 0.873 | 6.378 | 306.5 | 505.7 | 0.810 | --- | 3.96 | 0.459 | 150.4 | 51.2 | 4.4 | 0.450 |
| 4-4520 | 4-5080 | 0.589 | 168.9 | -2.9 | -3.36 | 1.350 | 114.3 | 0.854 | 5.586 | 307.0 | 507.7 | 0.816 | --- | 3.69 | 0.435 | 148.6 | 51.1 | 4.3 | 0.425 |
| 4-4520 | 4-5100 | 0.575 | 168.8 | -2.4 | -3.10 | 1.343 | 113.8 | 0.837 | 5.040 | 307.4 | 509.7 | 0.821 | --- | 3.44 | 0.412 | 146.7 | 50.8 | 4.3 | 0.402 |
| 4-4520 | 4-5120 | 0.564 | 168.6 | -1.9 | -2.87 | 1.337 | 113.4 | 0.822 | 4.644 | 307.8 | 511.6 | 0.825 | --- | 3.24 | 0.391 | 144.7 | 50.5 | 4.3 | 0.381 |
| 4-4520 | 4-5140 | 0.553 | 168.5 | -1.5 | -2.67 | 1.331 | 113.0 | 0.809 | 4.345 | 308.2 | 513.4 | 0.828 | --- | 3.05 | 0.372 | 142.7 | 50.1 | 4.3 | 0.362 |
| 4-4520 | 4-5160 | 0.545 | 168.4 | -1.1 | -2.49 | 1.326 | 112.7 | 0.798 | 4.114 | 308.4 | 515.2 | 0.831 | --- | 2.89 | 0.354 | 140.5 | 49.7 | 4.2 | 0.344 |
| 4-4520 | 4-5180 | 0.537 | 168.4 | -0.8 | -2.33 | 1.322 | 112.4 | 0.788 | 3.930 | 308.6 | 517.0 | 0.834 | --- | 2.75 | 0.338 | 138.3 | 49.1 | 4.2 | 0.327 |
| 4-4520 | 4-5200 | 0.531 | 168.4 | -0.5 | -2.18 | 1.318 | 112.2 | 0.779 | 3.782 | 308.8 | 518.7 | 0.836 | --- | 2.62 | 0.324 | 135.9 | 48.4 | 4.2 | 0.312 |
| 4-4520 | 4-5220 | 0.525 | 168.4 | -0.2 | -2.05 | 1.315 | 112.0 | 0.771 | 3.661 | 308.9 | 520.3 | 0.837 | --- | 2.50 | 0.310 | 133.5 | 47.7 | 4.2 | 0.298 |
| 4-4520 | 4-5240 | 0.521 | 168.4 | 0.1 | -1.92 | 1.312 | 111.9 | 0.764 | 3.560 | 309.0 | 521.9 | 0.839 | --- | 2.40 | 0.298 | 131.0 | 46.8 | 4.1 | 0.286 |
| 4-4520 | 4-5260 | 0.517 | 168.6 | 0.3 | -1.81 | 1.309 | 111.8 | 0.759 | 3.477 | 308.9 | 523.4 | 0.839 | --- | 2.30 | 0.287 | 128.5 | 45.9 | 4.1 | 0.274 |
| 4-4520 | 4-5280 | 0.514 | 168.7 | 0.5 | -1.71 | 1.307 | 111.7 | 0.754 | 3.407 | 308.9 | 524.9 | 0.839 | --- | 2.22 | 0.277 | 125.8 | 44.9 | 4.1 | 0.264 |
| 4-4520 | 4-5300 | 0.512 | 168.9 | 0.7 | -1.61 | 1.305 | 111.7 | 0.749 | 3.348 | 308.8 | 526.3 | 0.839 | --- | 2.14 | 0.268 | 123.1 | 43.8 | 4.0 | 0.254 |
| 4-4520 | 4-5320 | 0.511 | 169.1 | 0.8 | -1.52 | 1.303 | 111.7 | 0.746 | 3.298 | 308.6 | 527.7 | 0.839 | --- | 2.07 | 0.260 | 120.4 | 42.7 | 4.0 | 0.246 |
| 4-4520 | 4-5340 | 0.510 | 169.3 | 0.9 | -1.43 | 1.302 | 111.7 | 0.743 | 3.256 | 308.4 | 529.0 | 0.838 | --- | 2.00 | 0.253 | 117.6 | 41.4 | 3.9 | 0.238 |
| 4-4520 | 4-5360 | 0.510 | 169.6 | 1.0 | -1.35 | 1.300 | 111.8 | 0.740 | 3.220 | 308.1 | 530.3 | 0.837 | --- | 1.94 | 0.247 | 114.8 | 40.2 | 3.9 | 0.232 |
| 4-4520 | 4-5380 | 0.511 | 169.9 | 1.1 | -1.27 | 1.299 | 111.9 | 0.738 | 3.189 | 307.8 | 531.5 | 0.835 | --- | 1.89 | 0.242 | 112.0 | 38.9 | 3.8 | 0.226 |
| 4-4520 | 4-5400 | 0.512 | 170.2 | 1.1 | -1.20 | 1.298 | 112.0 | 0.737 | 3.164 | 307.5 | 532.7 | 0.833 | --- | 1.83 | 0.237 | 109.1 | 37.5 | 3.7 | 0.221 |
| 4-4520 | 4-5420 | 0.514 | 170.6 | 1.2 | -1.13 | 1.297 | 112.1 | 0.736 | 3.142 | 307.1 | 533.9 | 0.831 | --- | 1.79 | 0.233 | 106.3 | 36.2 | 3.7 | 0.217 |
| 4-4520 | 4-5440 | 0.516 | 171.0 | 1.2 | -1.07 | 1.297 | 112.3 | 0.735 | 3.124 | 306.6 | 535.0 | 0.828 | --- | 1.74 | 0.230 | 103.5 | 34.8 | 3.6 | 0.213 |
| 4-4520 | 4-5460 | 0.518 | 171.4 | 1.2 | -1.01 | 1.296 | 112.5 | 0.734 | 3.109 | 306.1 | 536.1 | 0.826 | --- | 1.70 | 0.227 | 100.7 | 33.5 | 3.5 | 0.210 |
| 4-4520 | 4-5480 | 0.521 | 171.8 | 1.2 | -0.95 | 1.296 | 112.7 | 0.734 | 3.096 | 305.6 | 537.1 | 0.822 | --- | 1.66 | 0.225 | 97.9 | 32.2 | 3.4 | 0.208 |
| 4-4520 | 4-5500 | 0.525 | 172.3 | 1.1 | -0.89 | 1.295 | 112.9 | 0.735 | 3.086 | 305.0 | 538.1 | 0.819 | --- | 1.63 | 0.224 | 95.2 | 30.9 | 3.3 | 0.207 |
| 4-4520 | 4-5520 | 0.529 | 172.8 | 1.1 | -0.84 | 1.295 | 113.2 | 0.735 | 3.078 | 304.4 | 539.1 | 0.815 | --- | 1.60 | 0.223 | 92.6 | 29.7 | 3.3 | 0.206 |
| 4-4520 | 4-5540 | 0.533 | 173.3 | 1.0 | -0.78 | 1.295 | 113.5 | 0.736 | 3.072 | 303.8 | 540.0 | 0.811 | 5.333 | 1.57 | 0.222 | 90.0 | 28.6 | 3.2 | 0.206 |
| 4-4520 | 4-5560 | 0.538 | 173.8 | 0.9 | -0.73 | 1.294 | 113.8 | 0.737 | 3.068 | 303.1 | 540.9 | 0.807 | 5.329 | 1.54 | 0.222 | 87.5 | 27.5 | 3.1 | 0.206 |
| 4-4520 | 4-5580 | 0.543 | 174.3 | 0.8 | -0.68 | 1.294 | 114.1 | 0.738 | 3.065 | 302.4 | 541.8 | 0.802 | 5.328 | 1.51 | 0.223 | 85.1 | 26.6 | 3.0 | 0.206 |
| 4-4520 | 4-5600 | 0.548 | 174.9 | 0.7 | -0.63 | 1.294 | 114.4 | 0.740 | 3.064 | 301.6 | 542.6 | 0.797 | 5.330 | 1.49 | 0.223 | 82.7 | 25.7 | 2.9 | 0.207 |
| 4-4520 | 4-5620 | 0.554 | 175.4 | 0.6 | -0.59 | 1.294 | 114.8 | 0.742 | 3.063 | 300.8 | 543.4 | 0.792 | 5.335 | 1.47 | 0.224 | 80.4 | 24.9 | 2.8 | 0.209 |
| 4-4520 | 4-5640 | 0.560 | 176.0 | 0.5 | -0.54 | 1.294 | 115.1 | 0.743 | 3.064 | 300.0 | 544.2 | 0.786 | 5.342 | 1.45 | 0.226 | 78.2 | 24.3 | 2.8 | 0.211 |
| 4-4520 | 4-5660 | 0.567 | 176.6 | 0.3 | -0.50 | 1.294 | 115.5 | 0.746 | 3.066 | 299.1 | 544.9 | 0.780 | 5.352 | 1.43 | 0.227 | 76.1 | 23.7 | 2.7 | 0.213 |
| 4-4520 | 4-5680 | 0.574 | 177.2 | 0.2 | -0.45 | 1.294 | 115.9 | 0.748 | 3.069 | 298.2 | 545.6 | 0.774 | 5.363 | 1.41 | 0.229 | 74.0 | 23.2 | 2.7 | 0.215 |
| 4-4520 | 4-5700 | 0.581 | 177.9 | 0.0 | -0.41 | 1.295 | 116.4 | 0.750 | 3.072 | 297.3 | 546.3 | 0.767 | 5.377 | 1.40 | 0.231 | 72.1 | 22.9 | 2.6 | 0.218 |
| 4-4520 | 4-5720 | 0.588 | 178.5 | -0.1 | -0.37 | 1.295 | 116.8 | 0.753 | 3.077 | 296.4 | 547.0 | 0.761 | 5.393 | 1.38 | 0.233 | 70.2 | 22.6 | 2.5 | 0.221 |
| 4-4520 | 4-5740 | 0.596 | 179.1 | -0.3 | -0.33 | 1.295 | 117.3 | 0.755 | 3.082 | 295.4 | 547.6 | 0.753 | 5.410 | 1.37 | 0.235 | 68.3 | 22.4 | 2.5 | 0.224 |
| 4-4520 | 4-5760 | 0.604 | 179.8 | -0.5 | -0.29 | 1.295 | 117.8 | 0.758 | 3.087 | 294.4 | 548.2 | 0.746 | 5.429 | 1.36 | 0.237 | 66.6 | 22.3 | 2.5 | 0.228 |
| 4-4520 | 4-5780 | 0.613 | 180.4 | -0.7 | -0.25 | 1.296 | 118.3 | 0.761 | 3.094 | 293.3 | 548.8 | 0.738 | 5.449 | 1.35 | 0.240 | 64.9 | 22.4 | 2.4 | 0.231 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4520 | 4-5800 | 0.622 | 181.1 | -0.9 | -0.21 | 1.296 | 118.8 | 0.765 | 3.101 | 292.2 | 549.3 | 0.730 | 5.471 | 1.34 | 0.242 | 63.2 | 22.5 | 2.4 | 0.235 |
| 4-4520 | 4-5820 | 0.631 | 181.8 | -1.1 | -0.17 | 1.296 | 119.3 | 0.768 | 3.108 | 291.1 | 549.8 | 0.722 | 5.494 | 1.33 | 0.245 | 61.7 | 22.7 | 2.4 | 0.239 |
| 4-4520 | 4-5840 | 0.640 | 182.5 | -1.3 | -0.13 | 1.296 | 119.8 | 0.771 | 3.116 | 290.0 | 550.3 | 0.713 | 5.519 | 1.32 | 0.248 | 60.1 | 23.0 | 2.4 | 0.243 |
| 4-4520 | 4-5860 | 0.650 | 183.2 | -1.5 | -0.09 | 1.297 | 120.4 | 0.775 | 3.124 | 288.8 | 550.8 | 0.704 | 5.544 | 1.32 | 0.250 | 58.7 | 23.3 | 2.4 | 0.248 |
| 4-4520 | 4-5880 | 0.660 | 183.8 | -1.8 | -0.06 | 1.297 | 121.0 | 0.778 | 3.133 | 287.6 | 551.3 | 0.694 | 5.571 | 1.31 | 0.253 | 57.3 | 23.7 | 2.3 | 0.252 |
| 4-4520 | 4-5900 | 0.671 | 184.5 | -2.0 | -0.02 | 1.297 | 121.6 | 0.782 | 3.142 | 286.4 | 551.7 | 0.685 | 5.599 | 1.31 | 0.256 | 55.9 | 24.2 | 2.3 | 0.257 |
| 4-4520 | 4-5920 | 0.682 | 185.2 | -2.2 | 0.02 | 1.298 | 122.2 | 0.786 | 3.151 | 285.1 | 552.1 | 0.674 | 5.628 | 1.30 | 0.259 | 54.5 | 24.8 | 2.3 | 0.261 |
| 4-4520 | 4-5940 | 0.693 | 186.0 | -2.5 | 0.06 | 1.298 | 122.8 | 0.790 | 3.161 | 283.9 | 552.5 | 0.664 | 5.658 | 1.30 | 0.262 | 53.2 | 25.5 | 2.3 | 0.266 |
| 4-4520 | 4-5960 | 0.704 | 186.7 | -2.7 | 0.10 | 1.299 | 123.5 | 0.794 | 3.171 | 282.6 | 552.8 | 0.653 | 5.689 | 1.30 | 0.265 | 52.0 | 26.2 | 2.4 | 0.271 |
| 4-4520 | 4-5980 | 0.716 | 187.4 | -3.0 | 0.13 | 1.299 | 124.1 | 0.798 | 3.181 | 281.2 | 553.2 | 0.642 | 5.721 | 1.30 | 0.268 | 50.8 | 26.9 | 2.4 | 0.276 |
| 4-4520 | 4-6000 | 0.728 | 188.1 | -3.2 | 0.17 | 1.299 | 124.8 | 0.802 | 3.192 | 279.8 | 553.5 | 0.630 | 5.753 | 1.31 | 0.271 | 49.6 | 27.7 | 2.4 | 0.281 |
| 4-4520 | 4-6020 | 0.740 | 188.8 | -3.5 | 0.21 | 1.300 | 125.5 | 0.807 | 3.203 | 278.5 | 553.8 | 0.619 | 5.787 | 1.31 | 0.274 | 48.4 | 28.6 | 2.4 | 0.286 |
| 4-4520 | 4-6040 | 0.753 | 189.6 | -3.7 | 0.25 | 1.300 | 126.2 | 0.811 | 3.214 | 277.0 | 554.0 | 0.606 | 5.821 | 1.31 | 0.277 | 47.3 | 29.5 | 2.4 | 0.291 |
| 4-4520 | 4-6060 | 0.766 | 190.3 | -4.0 | 0.29 | 1.301 | 127.0 | 0.816 | 3.225 | 275.6 | 554.3 | 0.594 | 5.856 | 1.32 | 0.280 | 46.1 | 30.5 | 2.5 | 0.296 |
| 4-4520 | 4-6080 | 0.780 | 191.0 | -4.3 | 0.33 | 1.301 | 127.7 | 0.820 | 3.237 | 274.1 | 554.5 | 0.581 | 5.892 | 1.32 | 0.282 | 45.0 | 31.5 | 2.5 | 0.302 |
| 4-4520 | 4-6100 | 0.793 | 191.8 | -4.6 | 0.37 | 1.301 | 128.5 | 0.825 | 3.248 | 272.6 | 554.7 | 0.568 | 5.929 | 1.33 | 0.285 | 44.0 | 32.6 | 2.5 | 0.307 |
| 4-4520 | 4-6120 | 0.807 | 192.5 | -4.8 | 0.41 | 1.302 | 129.3 | 0.830 | 3.260 | 271.1 | 554.9 | 0.554 | 5.966 | 1.34 | 0.288 | 42.9 | 33.7 | 2.5 | 0.313 |
| 4-4530 | 4-4970 | 0.844 | 166.8 | -43.8 | -27.26 | 1.424 | 115.0 | 1.01650 | .608 | 310.5 | 493.3 | 0.820 | --- | 27.60 | 0.622 | 157.7 | 49.7 | 12.4 | 0.626 |
| 4-4530 | 4-4990 | 0.713 | 167.3 | -30.6 | -17.50 | 1.407 | 114.0 | 0.97838 | .003 | 311.4 | 495.6 | 0.830 | --- | 17.85 | 0.584 | 156.2 | 51.3 | 9.6 | 0.578 |
| 4-4530 | 4-5010 | 0.650 | 168.2 | -23.1 | -12.73 | 1.393 | 113.1 | 0.94515 | .189 | 312.3 | 497.9 | 0.838 | --- | 13.10 | 0.549 | 154.7 | 51.9 | 8.1 | 0.540 |
| 4-4530 | 4-5030 | 0.611 | 168.8 | -18.3 | -9.94 | 1.381 | 112.4 | 0.91610 | .015 | 313.0 | 500.1 | 0.845 | --- | 10.33 | 0.517 | 153.1 | 52.3 | 7.2 | 0.506 |
| 4-4530 | 4-5050 | 0.582 | 169.2 | -15.0 | -8.12 | 1.370 | 111.7 | 0.890 | 7.738 | 313.7 | 502.3 | 0.852 | --- | 8.53 | 0.488 | 151.5 | 52.4 | 6.6 | 0.476 |
| 4-4530 | 4-5070 | 0.560 | 169.4 | -12.5 | -6.84 | 1.361 | 111.1 | 0.867 | 6.464 | 314.4 | 504.4 | 0.857 | --- | 7.26 | 0.462 | 149.7 | 52.4 | 6.2 | 0.448 |
| 4-4530 | 4-5090 | 0.542 | 169.5 | -10.6 | -5.88 | 1.353 | 110.6 | 0.848 | 5.655 | 314.9 | 506.5 | 0.862 | --- | 6.32 | 0.437 | 147.9 | 52.3 | 5.9 | 0.423 |
| 4-4530 | 4-5110 | 0.526 | 169.6 | -9.0 | -5.14 | 1.346 | 110.1 | 0.830 | 5.099 | 315.4 | 508.5 | 0.866 | --- | 5.60 | 0.415 | 146.0 | 52.2 | 5.7 | 0.400 |
| 4-4530 | 4-5130 | 0.513 | 169.6 | -7.8 | -4.55 | 1.340 | 109.7 | 0.815 | 4.696 | 315.9 | 510.5 | 0.870 | --- | 5.03 | 0.394 | 144.0 | 51.9 | 5.5 | 0.379 |
| 4-4530 | 4-5150 | 0.502 | 169.7 | -6.7 | -4.07 | 1.334 | 109.3 | 0.801 | 4.392 | 316.3 | 512.4 | 0.873 | --- | 4.56 | 0.375 | 142.0 | 51.6 | 5.3 | 0.360 |
| 4-4530 | 4-5170 | 0.493 | 169.7 | -5.8 | -3.67 | 1.329 | 109.0 | 0.789 | 4.156 | 316.6 | 514.3 | 0.876 | --- | 4.18 | 0.358 | 139.8 | 51.1 | 5.2 | 0.342 |
| 4-4530 | 4-5190 | 0.485 | 169.7 | -5.0 | -3.33 | 1.325 | 108.8 | 0.779 | 3.969 | 316.9 | 516.1 | 0.879 | --- | 3.86 | 0.342 | 137.6 | 50.6 | 5.1 | 0.325 |
| 4-4530 | 4-5210 | 0.478 | 169.8 | -4.3 | -3.04 | 1.321 | 108.5 | 0.769 | 3.819 | 317.1 | 517.8 | 0.880 | --- | 3.59 | 0.328 | 135.3 | 50.0 | 5.0 | 0.310 |
| 4-4530 | 4-5230 | 0.472 | 169.9 | -3.7 | -2.79 | 1.318 | 108.4 | 0.761 | 3.695 | 317.2 | 519.5 | 0.882 | --- | 3.35 | 0.315 | 132.9 | 49.3 | 4.9 | 0.296 |
| 4-4530 | 4-5250 | 0.468 | 170.0 | -3.2 | -2.57 | 1.315 | 108.2 | 0.754 | 3.594 | 317.3 | 521.1 | 0.883 | --- | 3.14 | 0.303 | 130.5 | 48.5 | 4.9 | 0.283 |
| 4-4530 | 4-5270 | 0.464 | 170.2 | -2.7 | -2.37 | 1.312 | 108.1 | 0.748 | 3.509 | 317.3 | 522.7 | 0.884 | --- | 2.97 | 0.292 | 128.0 | 47.6 | 4.8 | 0.272 |
| 4-4530 | 4-5290 | 0.461 | 170.4 | -2.3 | -2.19 | 1.310 | 108.0 | 0.743 | 3.438 | 317.3 | 524.2 | 0.884 | --- | 2.81 | 0.282 | 125.4 | 46.6 | 4.7 | 0.261 |
| 4-4530 | 4-5310 | 0.458 | 170.6 | -2.0 | -2.03 | 1.308 | 108.0 | 0.738 | 3.378 | 317.2 | 525.6 | 0.884 | --- | 2.67 | 0.273 | 122.8 | 45.6 | 4.6 | 0.251 |
| 4-4530 | 4-5330 | 0.457 | 170.9 | -1.7 | -1.89 | 1.306 | 108.0 | 0.734 | 3.327 | 317.1 | 527.0 | 0.884 | --- | 2.54 | 0.265 | 120.1 | 44.4 | 4.6 | 0.243 |
| 4-4530 | 4-5350 | 0.456 | 171.2 | -1.4 | -1.76 | 1.305 | 108.0 | 0.731 | 3.284 | 316.9 | 528.4 | 0.883 | --- | 2.43 | 0.259 | 117.4 | 43.3 | 4.5 | 0.235 |
| 4-4530 | 4-5370 | 0.455 | 171.5 | -1.2 | -1.64 | 1.304 | 108.1 | 0.728 | 3.247 | 316.7 | 529.7 | 0.882 | --- | 2.33 | 0.252 | 114.6 | 42.0 | 4.4 | 0.228 |
| 4-4530 | 4-5390 | 0.456 | 171.8 | -1.0 | -1.53 | 1.302 | 108.2 | 0.726 | 3.216 | 316.4 | 531.0 | 0.881 | --- | 2.23 | 0.247 | 111.9 | 40.7 | 4.3 | 0.222 |
| 4-4530 | 4-5410 | 0.456 | 172.2 | -0.9 | -1.43 | 1.301 | 108.3 | 0.724 | 3.190 | 316.1 | 532.2 | 0.879 | --- | 2.15 | 0.243 | 109.2 | 39.4 | 4.2 | 0.217 |
| 4-4530 | 4-5430 | 0.457 | 172.7 | -0.7 | -1.33 | 1.301 | 108.4 | 0.723 | 3.168 | 315.7 | 533.4 | 0.878 | --- | 2.07 | 0.239 | 106.4 | 38.1 | 4.1 | 0.213 |
| 4-4530 | 4-5450 | 0.459 | 173.1 | -0.7 | -1.24 | 1.300 | 108.6 | 0.722 | 3.149 | 315.3 | 534.5 | 0.875 | --- | 2.00 | 0.236 | 103.7 | 36.7 | 4.0 | 0.209 |
| 4-4530 | 4-5470 | 0.461 | 173.6 | -0.6 | -1.16 | 1.299 | 108.7 | 0.721 | 3.134 | 314.8 | 535.7 | 0.873 | --- | 1.94 | 0.233 | 101.0 | 35.4 | 3.9 | 0.206 |
| 4-4530 | 4-5490 | 0.464 | 174.1 | -0.6 | -1.08 | 1.299 | 108.9 | 0.721 | 3.121 | 314.3 | 536.7 | 0.871 | --- | 1.88 | 0.231 | 98.4 | 34.1 | 3.8 | 0.204 |
| 4-4530 | 4-5510 | 0.467 | 174.6 | -0.6 | -1.00 | 1.298 | 109.2 | 0.721 | 3.110 | 313.8 | 537.7 | 0.868 | --- | 1.83 | 0.230 | 95.8 | 32.8 | 3.7 | 0.202 |
| 4-4530 | 4-5530 | 0.470 | 175.2 | -0.6 | -0.93 | 1.298 | 109.4 | 0.721 | 3.102 | 313.2 | 538.7 | 0.865 | --- | 1.78 | 0.229 | 93.3 | 31.6 | 3.6 | 0.201 |
| 4-4530 | 4-5550 | 0.474 | 175.8 | -0.6 | -0.87 | 1.298 | 109.7 | 0.722 | 3.096 | 312.6 | 539.7 | 0.861 | --- | 1.73 | 0.228 | 90.8 | 30.5 | 3.5 | 0.200 |
| 4-4530 | 4-5570 | 0.478 | 176.4 | -0.7 | -0.80 | 1.298 | 109.9 | 0.723 | 3.091 | 311.9 | 540.6 | 0.858 | 5.325 | 1.69 | 0.228 | 88.4 | 29.4 | 3.4 | 0.200 |
| 4-4530 | 4-5590 | 0.483 | 177.0 | -0.7 | -0.74 | 1.298 | 110.2 | 0.724 | 3.088 | 311.2 | 541.5 | 0.854 | 5.323 | 1.65 | 0.229 | 86.1 | 28.4 | 3.3 | 0.201 |
| 4-4530 | 4-5610 | 0.487 | 177.6 | -0.8 | -0.68 | 1.297 | 110.5 | 0.725 | 3.086 | 310.5 | 542.4 | 0.850 | 5.323 | 1.61 | 0.229 | 83.8 | 27.5 | 3.2 | 0.201 |
| 4-4530 | 4-5630 | 0.493 | 178.3 | -0.9 | -0.63 | 1.297 | 110.9 | 0.726 | 3.086 | 309.7 | 543.2 | 0.845 | 5.327 | 1.58 | 0.230 | 81.6 | 26.7 | 3.2 | 0.202 |
| 4-4530 | 4-5650 | 0.498 | 178.9 | -1.0 | -0.57 | 1.297 | 111.2 | 0.728 | 3.087 | 308.9 | 544.0 | 0.840 | 5.333 | 1.55 | 0.231 | 79.5 | 26.0 | 3.1 | 0.204 |
| 4-4530 | 4-5670 | 0.504 | 179.6 | -1.2 | -0.52 | 1.298 | 111.6 | 0.729 | 3.088 | 308.1 | 544.8 | 0.835 | 5.341 | 1.52 | 0.233 | 77.5 | 25.3 | 3.0 | 0.206 |
| 4-4530 | 4-5690 | 0.510 | 180.3 | -1.3 | -0.47 | 1.298 | 112.0 | 0.731 | 3.091 | 307.2 | 545.5 | 0.830 | 5.351 | 1.49 | 0.234 | 75.5 | 24.8 | 2.9 | 0.208 |
| 4-4530 | 4-5710 | 0.517 | 181.0 | -1.5 | -0.42 | 1.298 | 112.4 | 0.733 | 3.094 | 306.3 | 546.2 | 0.825 | 5.364 | 1.47 | 0.236 | 73.6 | 24.4 | 2.8 | 0.211 |
| 4-4530 | 4-5730 | 0.523 | 181.7 | -1.7 | -0.38 | 1.298 | 112.8 | 0.736 | 3.098 | 305.4 | 546.9 | 0.819 | 5.378 | 1.44 | 0.238 | 71.8 | 24.1 | 2.8 | 0.213 |
| 4-4530 | 4-5750 | 0.531 | 182.4 | -1.9 | -0.33 | 1.298 | 113.2 | 0.738 | 3.103 | 304.5 | 547.6 | 0.813 | 5.394 | 1.42 | 0.240 | 70.0 | 23.9 | 2.7 | 0.216 |
| 4-4530 | 4-5770 | 0.538 | 183.1 | -2.0 | -0.29 | 1.298 | 113.7 | 0.741 | 3.109 | 303.5 | 548.2 | 0.806 | 5.411 | 1.40 | 0.242 | 68.3 | 23.8 | 2.7 | 0.219 |
| 4-4530 | 4-5790 | 0.546 | 183.9 | -2.2 | -0.24 | 1.299 | 114.1 | 0.743 | 3.115 | 302.5 | 548.8 | 0.800 | 5.430 | 1.38 | 0.245 | 66.7 | 23.7 | 2.6 | 0.223 |
| 4-4530 | 4-5810 | 0.554 | 184.6 | -2.5 | -0.20 | 1.299 | 114.6 | 0.746 | 3.122 | 301.4 | 549.4 | 0.793 | 5.451 | 1.37 | 0.247 | 65.2 | 23.8 | 2.6 | 0.226 |
| 4-4530 | 4-5830 | 0.562 | 185.3 | -2.7 | -0.16 | 1.299 | 115.1 | 0.749 | 3.129 | 300.3 | 550.0 | 0.785 | 5.473 | 1.35 | 0.250 | 63.6 | 23.9 | 2.6 | 0.230 |
| 4-4530 | 4-5850 | 0.571 | 186.1 | -2.9 | -0.12 | 1.299 | 115.6 | 0.752 | 3.137 | 299.2 | 550.5 | 0.778 | 5.496 | 1.34 | 0.252 | 62.2 | 24.2 | 2.5 | 0.234 |
| 4-4530 | 4-5870 | 0.580 | 186.8 | -3.1 | -0.08 | 1.300 | 116.2 | 0.755 | 3.145 | 298.1 | 551.1 | 0.770 | 5.520 | 1.33 | 0.255 | 60.8 | 24.5 | 2.5 | 0.238 |
| 4-4530 | 4-5890 | 0.589 | 187.6 | -3.4 | -0.04 | 1.300 | 116.7 | 0.759 | 3.153 | 297.0 | 551.5 | 0.761 | 5.545 | 1.32 | 0.258 | 59.4 | 24.8 | 2.5 | 0.242 |
| 4-4530 | 4-5910 | 0.599 | 188.4 | -3.6 | 0.00 | 1.300 | 117.3 | 0.762 | 3.162 | 295.8 | 552.0 | 0.753 | 5.571 | 1.31 | 0.261 | 58.1 | 25.3 | 2.5 | 0.246 |
| 4-4530 | 4-5930 | 0.609 | 189.1 | -3.9 | 0.04 | 1.301 | 117.8 | 0.765 | 3.171 | 294.6 | 552.5 | 0.744 | 5.599 | 1.30 | 0.263 | 56.8 | 25.8 | 2.5 | 0.250 |
| 4-4530 | 4-5950 | 0.619 | 189.9 | -4.1 | 0.08 | 1.301 | 118.4 | 0.769 | 3.181 | 293.3 | 552.9 | 0.735 | 5.627 | 1.29 | 0.266 | 55.6 | 26.4 | 2.5 | 0.255 |
| 4-4530 | 4-5970 | 0.630 | 190.7 | -4.4 | 0.12 | 1.302 | 119.0 | 0.773 | 3.191 | 292.1 | 553.3 | 0.725 | 5.656 | 1.28 | 0.269 | 54.4 | 27.1 | 2.5 | 0.259 |
| 4-4530 | 4-5990 | 0.641 | 191.4 | -4.6 | 0.15 | 1.302 | 119.7 | 0.777 | 3.201 | 290.8 | 553.7 | 0.715 | 5.687 | 1.28 | 0.272 | 53.2 | 27.8 | 2.5 | 0.264 |
| 4-4530 | 4-6010 | 0.652 | 192.2 | -4.9 | 0.19 | 1.302 | 120.3 | 0.780 | 3.211 | 289.4 | 554.0 | 0.705 | 5.718 | 1.27 | 0.275 | 52.1 | 28.6 | 2.5 | 0.268 |
| 4-4530 | 4-6030 | 0.663 | 193.0 | -5.2 | 0.23 | 1.303 | 120.9 | 0.784 | 3.222 | 288.1 | 554.4 | 0.694 | 5.750 | 1.27 | 0.278 | 51.0 | 29.4 | 2.5 | 0.273 |
| 4-4530 | 4-6050 | 0.675 | 193.8 | -5.4 | 0.27 | 1.303 | 121.6 | 0.789 | 3.233 | 286.7 | 554.7 | 0.683 | 5.782 | 1.27 | 0.280 | 49.9 | 30.3 | 2.5 | 0.278 |
| 4-4530 | 4-6070 | 0.687 | 194.6 | -5.7 | 0.30 | 1.303 | 122.3 | 0.793 | 3.244 | 285.3 | 555.0 | 0.672 | 5.816 | 1.27 | 0.283 | 48.8 | 31.2 | 2.5 | 0.283 |
| 4-4530 | 4-6090 | 0.700 | 195.4 | -6.0 | 0.34 | 1.304 | 123.0 | 0.797 | 3.255 | 283.9 | 555.2 | 0.661 | 5.850 | 1.27 | 0.286 | 47.8 | 32.2 | 2.6 | 0.288 |
| 4-4530 | 4-6110 | 0.712 | 196.2 | -6.3 | 0.38 | 1.304 | 123.7 | 0.801 | 3.267 | 282.4 | 555.5 | 0.649 | 5.885 | 1.27 | 0.289 | 46.8 | 33.2 | 2.6 | 0.293 |
| 4-4530 | 4-6130 | 0.726 | 196.9 | -6.5 | 0.42 | 1.305 | 124.5 | 0.806 | 3.279 | 281.0 | 555.7 | 0.636 | 5.921 | 1.27 | 0.292 | 45.8 | 34.3 | 2.6 | 0.298 |
| 4-4540 | 4-4960 | 0.643 | 189.5 | 15.9 | 8.67 | 1.444 | 111.8 | 1.06213 | .952 | 317.8 | 489.4 | 0.861 | --- | -8.24 | 0.662 | 158.3 | 53.3 | -0.7 | 0.645 |
| 4-4540 | 4-4980 | 0.626 | 191.3 | 20.0 | 10.49 | 1.425 | 110.8 | 1.01654 | .883 | 318.8 | 491.9 | 0.869 | --- | -10.03 | 0.621 | 157.0 | 53.5 | -1.6 | 0.605 |
| 4-4540 | 4-5000 | 0.623 | 194.7 | 25.7 | 13.29 | 1.409 | 109.9 | 0.97636 | .572 | 319.7 | 494.3 | 0.877 | --- | -12.82 | 0.583 | 155.5 | 53.5 | -3.0 | 0.569 |
| 4-4540 | 4-5020 | 0.651 | 201.8 | 33.7 | 18.21 | 1.395 | 109.1 | 0.94115 | .055 | 320.6 | 496.7 | 0.884 | --- | -17.72 | 0.549 | 154.0 | 53.1 | -5.4 | 0.539 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4540 | 4-5040 | 0.772 | 219.6 | 43.8 | 28.74 | 1.383 | 108.3 | 0.911 | 9.993 | 321.5 | 499.0 | 0.891 | --- | -28.24 | 0.517 | 152.4 | 51.5 | -10.2 | 0.521 |
| 4-4540 | 4-5060 | 1.250 | 261.6 | 41.9 | 59.90 | 1.373 | 107.5 | 0.884 | 7.744 | 322.6 | 501.2 | 0.898 | --- | -59.38 | 0.488 | 150.7 | 43.1 | -19.3 | 0.564 |
| 4-4540 | 4-5080 | 1.170 | 173.2 | -81.1 | -55.27 | 1.363 | 107.5 | 0.862 | 6.480 | 322.1 | 503.5 | 0.897 | --- | 55.81 | 0.462 | 149.1 | 42.0 | 23.7 | 0.532 |
| 4-4540 | 4-5100 | 0.709 | 158.7 | -52.9 | -26.58 | 1.355 | 106.8 | 0.841 | 5.675 | 323.0 | 505.6 | 0.902 | --- | 27.13 | 0.438 | 147.2 | 50.2 | 16.5 | 0.443 |
| 4-4540 | 4-5120 | 0.569 | 162.1 | -37.1 | -16.67 | 1.348 | 106.3 | 0.823 | 5.120 | 323.7 | 507.7 | 0.907 | --- | 17.24 | 0.416 | 145.3 | 52.0 | 12.4 | 0.407 |
| 4-4540 | 4-5140 | 0.511 | 164.4 | -27.8 | -11.96 | 1.342 | 105.9 | 0.807 | 4.718 | 324.2 | 509.7 | 0.910 | --- | 12.54 | 0.396 | 143.3 | 52.4 | 10.2 | 0.381 |
| 4-4540 | 4-5160 | 0.480 | 165.8 | -21.8 | -9.24 | 1.337 | 105.6 | 0.793 | 4.414 | 324.7 | 511.7 | 0.913 | --- | 9.84 | 0.377 | 141.3 | 52.4 | 8.9 | 0.359 |
| 4-4540 | 4-5180 | 0.460 | 166.9 | -17.6 | -7.48 | 1.332 | 105.3 | 0.781 | 4.178 | 325.1 | 513.6 | 0.915 | --- | 8.09 | 0.360 | 139.1 | 52.1 | 8.0 | 0.340 |
| 4-4540 | 4-5200 | 0.446 | 167.6 | -14.5 | -6.25 | 1.328 | 105.0 | 0.770 | 3.991 | 325.4 | 515.4 | 0.917 | --- | 6.87 | 0.344 | 136.9 | 51.7 | 7.4 | 0.323 |
| 4-4540 | 4-5220 | 0.436 | 168.2 | -12.1 | -5.33 | 1.324 | 104.8 | 0.761 | 3.841 | 325.6 | 517.2 | 0.919 | --- | 5.98 | 0.330 | 134.6 | 51.1 | 6.9 | 0.308 |
| 4-4540 | 4-5240 | 0.428 | 168.6 | -10.3 | -4.62 | 1.321 | 104.6 | 0.753 | 3.717 | 325.8 | 518.9 | 0.920 | --- | 5.29 | 0.317 | 132.3 | 50.5 | 6.6 | 0.294 |
| 4-4540 | 4-5260 | 0.421 | 169.1 | -8.8 | -4.06 | 1.318 | 104.5 | 0.745 | 3.615 | 325.9 | 520.5 | 0.921 | --- | 4.74 | 0.306 | 129.9 | 49.7 | 6.3 | 0.281 |
| 4-4540 | 4-5280 | 0.416 | 169.5 | -7.5 | -3.61 | 1.315 | 104.4 | 0.739 | 3.530 | 326.0 | 522.1 | 0.921 | --- | 4.30 | 0.295 | 127.4 | 48.9 | 6.1 | 0.269 |
| 4-4540 | 4-5300 | 0.413 | 169.9 | -6.5 | -3.23 | 1.313 | 104.3 | 0.734 | 3.459 | 326.0 | 523.7 | 0.922 | --- | 3.94 | 0.285 | 124.9 | 47.9 | 5.8 | 0.258 |
| 4-4540 | 4-5320 | 0.410 | 170.3 | -5.7 | -2.90 | 1.311 | 104.3 | 0.729 | 3.399 | 325.9 | 525.2 | 0.922 | --- | 3.63 | 0.277 | 122.3 | 46.9 | 5.7 | 0.249 |
| 4-4540 | 4-5340 | 0.407 | 170.7 | -4.9 | -2.63 | 1.309 | 104.3 | 0.725 | 3.348 | 325.8 | 526.6 | 0.922 | --- | 3.37 | 0.269 | 119.6 | 45.8 | 5.5 | 0.240 |
| 4-4540 | 4-5360 | 0.406 | 171.2 | -4.3 | -2.39 | 1.308 | 104.3 | 0.721 | 3.305 | 325.7 | 528.0 | 0.921 | --- | 3.15 | 0.263 | 117.0 | 44.7 | 5.3 | 0.232 |
| 4-4540 | 4-5380 | 0.405 | 171.6 | -3.8 | -2.18 | 1.306 | 104.4 | 0.718 | 3.268 | 325.5 | 529.3 | 0.920 | --- | 2.95 | 0.257 | 114.3 | 43.4 | 5.2 | 0.225 |
| 4-4540 | 4-5400 | 0.405 | 172.1 | -3.4 | -1.99 | 1.305 | 104.4 | 0.716 | 3.237 | 325.2 | 530.6 | 0.920 | --- | 2.79 | 0.252 | 111.7 | 42.2 | 5.0 | 0.219 |
| 4-4540 | 4-5420 | 0.405 | 172.6 | -3.0 | -1.82 | 1.304 | 104.5 | 0.714 | 3.210 | 324.9 | 531.9 | 0.918 | --- | 2.64 | 0.247 | 109.0 | 40.9 | 4.9 | 0.214 |
| 4-4540 | 4-5440 | 0.406 | 173.2 | -2.7 | -1.67 | 1.304 | 104.7 | 0.712 | 3.188 | 324.5 | 533.1 | 0.917 | --- | 2.50 | 0.244 | 106.3 | 39.6 | 4.7 | 0.209 |
| 4-4540 | 4-5460 | 0.407 | 173.7 | -2.5 | -1.54 | 1.303 | 104.8 | 0.711 | 3.169 | 324.1 | 534.2 | 0.915 | --- | 2.38 | 0.241 | 103.7 | 38.2 | 4.6 | 0.206 |
| 4-4540 | 4-5480 | 0.409 | 174.3 | -2.3 | -1.41 | 1.302 | 105.0 | 0.710 | 3.154 | 323.7 | 535.4 | 0.914 | --- | 2.28 | 0.238 | 101.1 | 36.9 | 4.5 | 0.202 |
| 4-4540 | 4-5500 | 0.411 | 175.0 | -2.2 | -1.30 | 1.302 | 105.2 | 0.710 | 3.141 | 323.2 | 536.5 | 0.912 | --- | 2.18 | 0.236 | 98.6 | 35.6 | 4.3 | 0.200 |
| 4-4540 | 4-5520 | 0.413 | 175.6 | -2.1 | -1.19 | 1.301 | 105.4 | 0.710 | 3.131 | 322.7 | 537.5 | 0.909 | --- | 2.09 | 0.235 | 96.1 | 34.4 | 4.2 | 0.198 |
| 4-4540 | 4-5540 | 0.416 | 176.3 | -2.0 | -1.10 | 1.301 | 105.6 | 0.710 | 3.122 | 322.1 | 538.5 | 0.907 | --- | 2.01 | 0.234 | 93.6 | 33.1 | 4.1 | 0.197 |
| 4-4540 | 4-5560 | 0.419 | 177.0 | -2.0 | -1.01 | 1.301 | 105.8 | 0.710 | 3.116 | 321.5 | 539.5 | 0.904 | --- | 1.94 | 0.233 | 91.2 | 32.0 | 3.9 | 0.196 |
| 4-4540 | 4-5580 | 0.423 | 177.7 | -2.0 | -0.92 | 1.301 | 106.1 | 0.710 | 3.111 | 320.9 | 540.4 | 0.901 | 5.321 | 1.88 | 0.233 | 88.9 | 30.9 | 3.8 | 0.196 |
| 4-4540 | 4-5600 | 0.427 | 178.4 | -2.0 | -0.84 | 1.300 | 106.4 | 0.711 | 3.108 | 320.2 | 541.3 | 0.898 | 5.318 | 1.82 | 0.234 | 86.7 | 29.9 | 3.7 | 0.196 |
| 4-4540 | 4-5620 | 0.431 | 179.2 | -2.1 | -0.77 | 1.300 | 106.7 | 0.712 | 3.106 | 319.5 | 542.2 | 0.895 | 5.318 | 1.76 | 0.234 | 84.5 | 29.0 | 3.6 | 0.196 |
| 4-4540 | 4-5640 | 0.435 | 179.9 | -2.1 | -0.70 | 1.300 | 107.0 | 0.713 | 3.106 | 318.8 | 543.1 | 0.891 | 5.321 | 1.71 | 0.235 | 82.4 | 28.1 | 3.5 | 0.197 |
| 4-4540 | 4-5660 | 0.440 | 180.7 | -2.2 | -0.63 | 1.300 | 107.3 | 0.714 | 3.106 | 318.0 | 543.9 | 0.887 | 5.326 | 1.66 | 0.236 | 80.4 | 27.4 | 3.4 | 0.199 |
| 4-4540 | 4-5680 | 0.445 | 181.5 | -2.4 | -0.57 | 1.300 | 107.7 | 0.716 | 3.108 | 317.2 | 544.7 | 0.883 | 5.333 | 1.62 | 0.238 | 78.4 | 26.8 | 3.3 | 0.200 |
| 4-4540 | 4-5700 | 0.451 | 182.3 | -2.5 | -0.51 | 1.301 | 108.1 | 0.717 | 3.111 | 316.3 | 545.5 | 0.879 | 5.342 | 1.58 | 0.239 | 76.6 | 26.2 | 3.2 | 0.202 |
| 4-4540 | 4-5720 | 0.457 | 183.1 | -2.7 | -0.45 | 1.301 | 108.4 | 0.719 | 3.114 | 315.5 | 546.2 | 0.874 | 5.354 | 1.54 | 0.241 | 74.7 | 25.8 | 3.1 | 0.204 |
| 4-4540 | 4-5740 | 0.463 | 183.9 | -2.8 | -0.40 | 1.301 | 108.8 | 0.721 | 3.118 | 314.6 | 546.9 | 0.869 | 5.367 | 1.51 | 0.243 | 73.0 | 25.4 | 3.0 | 0.207 |
| 4-4540 | 4-5760 | 0.469 | 184.7 | -3.0 | -0.34 | 1.301 | 109.3 | 0.723 | 3.123 | 313.6 | 547.6 | 0.864 | 5.381 | 1.48 | 0.245 | 71.3 | 25.2 | 2.9 | 0.209 |
| 4-4540 | 4-5780 | 0.476 | 185.6 | -3.2 | -0.29 | 1.301 | 109.7 | 0.725 | 3.128 | 312.7 | 548.3 | 0.859 | 5.398 | 1.45 | 0.247 | 69.7 | 25.0 | 2.9 | 0.212 |
| 4-4540 | 4-5800 | 0.483 | 186.4 | -3.4 | -0.24 | 1.301 | 110.1 | 0.728 | 3.135 | 311.7 | 548.9 | 0.853 | 5.416 | 1.42 | 0.249 | 68.1 | 25.0 | 2.8 | 0.215 |
| 4-4540 | 4-5820 | 0.490 | 187.3 | -3.7 | -0.20 | 1.302 | 110.6 | 0.730 | 3.141 | 310.7 | 549.5 | 0.848 | 5.435 | 1.40 | 0.252 | 66.6 | 25.0 | 2.8 | 0.219 |
| 4-4540 | 4-5840 | 0.498 | 188.1 | -3.9 | -0.15 | 1.302 | 111.0 | 0.733 | 3.148 | 309.6 | 550.1 | 0.841 | 5.455 | 1.37 | 0.254 | 65.2 | 25.1 | 2.7 | 0.222 |
| 4-4540 | 4-5860 | 0.506 | 189.0 | -4.1 | -0.11 | 1.302 | 111.5 | 0.735 | 3.156 | 308.5 | 550.7 | 0.835 | 5.477 | 1.35 | 0.257 | 63.8 | 25.3 | 2.7 | 0.226 |
| 4-4540 | 4-5880 | 0.514 | 189.8 | -4.4 | -0.06 | 1.303 | 112.0 | 0.738 | 3.164 | 307.4 | 551.2 | 0.828 | 5.500 | 1.33 | 0.259 | 62.5 | 25.6 | 2.7 | 0.229 |
| 4-4540 | 4-5900 | 0.523 | 190.7 | -4.6 | -0.02 | 1.303 | 112.5 | 0.741 | 3.172 | 306.3 | 551.8 | 0.821 | 5.524 | 1.31 | 0.262 | 61.2 | 25.9 | 2.6 | 0.233 |
| 4-4540 | 4-5920 | 0.531 | 191.5 | -4.9 | 0.02 | 1.303 | 113.1 | 0.744 | 3.181 | 305.2 | 552.3 | 0.814 | 5.549 | 1.30 | 0.265 | 59.9 | 26.3 | 2.6 | 0.237 |
| 4-4540 | 4-5940 | 0.540 | 192.4 | -5.2 | 0.06 | 1.304 | 113.6 | 0.747 | 3.190 | 304.0 | 552.8 | 0.806 | 5.575 | 1.28 | 0.267 | 58.7 | 26.8 | 2.6 | 0.241 |
| 4-4540 | 4-5960 | 0.550 | 193.3 | -5.4 | 0.10 | 1.304 | 114.2 | 0.751 | 3.200 | 302.8 | 553.2 | 0.798 | 5.601 | 1.27 | 0.270 | 57.5 | 27.4 | 2.6 | 0.245 |
| 4-4540 | 4-5980 | 0.560 | 194.1 | -5.7 | 0.14 | 1.304 | 114.7 | 0.754 | 3.210 | 301.5 | 553.7 | 0.790 | 5.629 | 1.26 | 0.273 | 56.4 | 28.0 | 2.6 | 0.249 |
| 4-4540 | 4-6000 | 0.569 | 195.0 | -6.0 | 0.18 | 1.305 | 115.3 | 0.757 | 3.220 | 300.3 | 554.1 | 0.781 | 5.658 | 1.24 | 0.276 | 55.2 | 28.7 | 2.6 | 0.253 |
| 4-4540 | 4-6020 | 0.580 | 195.8 | -6.3 | 0.22 | 1.305 | 115.9 | 0.761 | 3.230 | 299.0 | 554.5 | 0.772 | 5.688 | 1.23 | 0.278 | 54.2 | 29.4 | 2.6 | 0.258 |
| 4-4540 | 4-6040 | 0.590 | 196.7 | -6.6 | 0.25 | 1.305 | 116.5 | 0.764 | 3.241 | 297.7 | 554.8 | 0.763 | 5.718 | 1.23 | 0.281 | 53.1 | 30.2 | 2.6 | 0.262 |
| 4-4540 | 4-6060 | 0.601 | 197.6 | -6.9 | 0.29 | 1.306 | 117.2 | 0.768 | 3.251 | 296.4 | 555.2 | 0.754 | 5.749 | 1.22 | 0.284 | 52.1 | 31.0 | 2.6 | 0.267 |
| 4-4540 | 4-6080 | 0.612 | 198.4 | -7.1 | 0.33 | 1.306 | 117.8 | 0.772 | 3.262 | 295.0 | 555.5 | 0.744 | 5.781 | 1.21 | 0.287 | 51.1 | 31.9 | 2.6 | 0.271 |
| 4-4540 | 4-6100 | 0.624 | 199.3 | -7.4 | 0.36 | 1.307 | 118.5 | 0.776 | 3.274 | 293.6 | 555.9 | 0.733 | 5.814 | 1.21 | 0.290 | 50.1 | 32.9 | 2.6 | 0.276 |
| 4-4540 | 4-6120 | 0.636 | 200.2 | -7.7 | 0.40 | 1.307 | 119.2 | 0.780 | 3.285 | 292.2 | 556.1 | 0.723 | 5.848 | 1.20 | 0.292 | 49.1 | 33.8 | 2.7 | 0.281 |
| 4-4540 | 4-6140 | 0.648 | 201.0 | -8.0 | 0.43 | 1.308 | 119.8 | 0.784 | 3.297 | 290.8 | 556.4 | 0.712 | 5.882 | 1.20 | 0.295 | 48.2 | 34.9 | 2.7 | 0.286 |
| 4-4550 | 4-4930 | 0.631 | 187.8 | 5.4 | 3.62 | 1.490 | 109.7 | 1.179 | -4.955 | 323.8 | 483.2 | 0.887 | --- | -3.09 | 0.754 | 160.2 | 53.9 | 1.4 | 0.732 |
| 4-4550 | 4-4950 | 0.596 | 187.2 | 6.7 | 3.86 | 1.465 | 108.5 | 1.115 | -7.789 | 324.9 | 485.8 | 0.896 | --- | -3.32 | 0.704 | 159.0 | 54.3 | 1.3 | 0.682 |
| 4-4550 | 4-4970 | 0.565 | 186.7 | 8.2 | 4.16 | 1.444 | 107.5 | 1.060 | 15.048 | 326.0 | 488.4 | 0.904 | --- | -3.60 | 0.658 | 157.6 | 54.5 | 1.1 | 0.636 |
| 4-4550 | 4-4990 | 0.539 | 186.3 | 9.8 | 4.50 | 1.425 | 106.6 | 1.013 | 71.921 | 327.0 | 490.9 | 0.911 | --- | -3.93 | 0.617 | 156.3 | 54.8 | 0.9 | 0.595 |
| 4-4550 | 4-5010 | 0.517 | 186.1 | 11.5 | 4.91 | 1.410 | 105.8 | 0.972 | 32.372 | 328.0 | 493.4 | 0.917 | --- | -4.32 | 0.580 | 154.8 | 54.9 | 0.6 | 0.558 |
| 4-4550 | 4-5030 | 0.498 | 186.0 | 13.6 | 5.42 | 1.396 | 105.0 | 0.936 | 14.426 | 328.9 | 495.9 | 0.922 | --- | -4.82 | 0.546 | 153.3 | 55.0 | 0.3 | 0.524 |
| 4-4550 | 4-5050 | 0.483 | 186.2 | 15.9 | 6.06 | 1.384 | 104.3 | 0.905 | 9.766 | 329.8 | 498.3 | 0.927 | --- | -5.44 | 0.515 | 151.7 | 55.1 | -0.2 | 0.493 |
| 4-4550 | 4-5070 | 0.472 | 186.7 | 18.8 | 6.88 | 1.374 | 103.7 | 0.878 | 7.635 | 330.6 | 500.6 | 0.931 | --- | -6.25 | 0.487 | 150.0 | 55.1 | -0.8 | 0.465 |
| 4-4550 | 4-5090 | 0.465 | 187.8 | 22.2 | 8.00 | 1.365 | 103.2 | 0.854 | 6.421 | 331.4 | 502.8 | 0.935 | --- | -7.36 | 0.461 | 148.3 | 54.9 | -1.5 | 0.439 |
| 4-4550 | 4-5110 | 0.466 | 189.9 | 26.7 | 9.60 | 1.357 | 102.7 | 0.834 | 5.641 | 332.0 | 505.0 | 0.939 | --- | -8.94 | 0.437 | 146.4 | 54.7 | -2.7 | 0.416 |
| 4-4550 | 4-5130 | 0.479 | 193.9 | 32.7 | 12.07 | 1.350 | 102.2 | 0.815 | 5.101 | 332.7 | 507.2 | 0.941 | --- | -11.40 | 0.415 | 144.5 | 54.3 | -4.4 | 0.395 |
| 4-4550 | 4-5150 | 0.520 | 201.9 | 41.0 | 16.38 | 1.344 | 101.9 | 0.799 | 4.707 | 333.3 | 509.2 | 0.944 | --- | -15.69 | 0.395 | 142.6 | 53.5 | -7.4 | 0.380 |
| 4-4550 | 4-5170 | 0.644 | 221.8 | 50.9 | 25.60 | 1.338 | 101.5 | 0.785 | 4.410 | 333.8 | 511.2 | 0.946 | --- | -24.89 | 0.377 | 140.5 | 51.6 | -13.2 | 0.376 |
| 4-4550 | 4-5190 | 1.111 | 269.2 | 48.7 | 53.95 | 1.334 | 101.1 | 0.773 | 4.179 | 334.5 | 513.1 | 0.949 | --- | -53.23 | 0.360 | 138.4 | 42.9 | -23.9 | 0.438 |
| 4-4550 | 4-5210 | 1.139 | 82.3 | -85.4 | -55.73 | 1.330 | 101.3 | 0.763 | 3.995 | 333.8 | 515.1 | 0.947 | --- | 56.47 | 0.345 | 136.2 | 38.9 | 29.0 | 0.437 |
| 4-4550 | 4-5230 | 0.623 | 148.2 | -56.7 | -24.99 | 1.326 | 101.0 | 0.753 | 3.846 | 334.3 | 516.8 | 0.949 | --- | 25.74 | 0.331 | 133.9 | 48.4 | 20.4 | 0.334 |
| 4-4550 | 4-5250 | 0.481 | 156.1 | -39.8 | -15.24 | 1.323 | 100.8 | 0.745 | 3.725 | 334.6 | 518.6 | 0.950 | --- | 16.00 | 0.318 | 131.6 | 49.9 | 14.9 | 0.302 |
| 4-4550 | 4-5270 | 0.427 | 160.2 | -29.4 | -10.76 | 1.320 | 100.7 | 0.738 | 3.624 | 334.8 | 520.3 | 0.951 | --- | 11.54 | 0.307 | 129.2 | 49.9 | 12.0 | 0.283 |
| 4-4550 | 4-5290 | 0.400 | 162.7 | -22.6 | -8.22 | 1.317 | 100.6 | 0.731 | 3.540 | 334.9 | 521.9 | 0.952 | --- | 9.01 | 0.297 | 126.7 | 49.4 | 10.3 | 0.269 |
| 4-4550 | 4-5310 | 0.386 | 164.4 | -17.9 | -6.59 | 1.315 | 100.5 | 0.726 | 3.470 | 335.0 | 523.4 | 0.952 | --- | 7.38 | 0.287 | 124.2 | 48.6 | 9.1 | 0.258 |
| 4-4550 | 4-5330 | 0.377 | 165.8 | -14.5 | -5.44 | 1.313 | 100.5 | 0.721 | 3.410 | 334.9 | 524.9 | 0.952 | --- | 6.26 | 0.279 | 121.7 | 47.7 | 8.3 | 0.247 |
| 4-4550 | 4-5350 | 0.371 | 166.9 | -12.0 | -4.59 | 1.312 | 100.5 | 0.717 | 3.360 | 334.8 | 526.4 | 0.952 | --- | 5.43 | 0.272 | 119.1 | 46.7 | 7.6 | 0.238 |
| 4-4550 | 4-5370 | 0.367 | 167.9 | -10.0 | -3.95 | 1.310 | 100.5 | 0.713 | 3.317 | 334.7 | 527.8 | 0.952 | --- | 4.80 | 0.265 | 116.5 | 45.6 | 7.1 | 0.230 |
| 4-4550 | 4-5390 | 0.364 | 168.8 | -8.5 | -3.43 | 1.309 | 100.6 | 0.710 | 3.281 | 334.5 | 529.1 | 0.951 | --- | 4.30 | 0.259 | 113.9 | 44.4 | 6.7 | 0.223 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4550 | 4-5410 | 0.363 | 169.7 | -7.2 | -3.02 | 1.308 | 100.6 | 0.708 | 3.250 | 334.3 | 530.4 | 0.950 | --- | 3.89 | 0.254 | 111.2 | 43.2 | 6.4 | 0.217 |
| 4-4550 | 4-5430 | 0.362 | 170.5 | -6.2 | -2.67 | 1.307 | 100.7 | 0.706 | 3.224 | 334.0 | 531.7 | 0.949 | --- | 3.56 | 0.250 | 108.6 | 41.9 | 6.1 | 0.211 |
| 4-4550 | 4-5450 | 0.362 | 171.3 | -5.4 | -2.37 | 1.306 | 100.9 | 0.704 | 3.203 | 333.6 | 532.9 | 0.948 | --- | 3.28 | 0.247 | 106.0 | 40.6 | 5.8 | 0.207 |
| 4-4550 | 4-5470 | 0.362 | 172.1 | -4.8 | -2.12 | 1.305 | 101.0 | 0.703 | 3.184 | 333.2 | 534.1 | 0.947 | --- | 3.05 | 0.244 | 103.5 | 39.3 | 5.5 | 0.203 |
| 4-4550 | 4-5490 | 0.363 | 172.9 | -4.3 | -1.90 | 1.305 | 101.2 | 0.702 | 3.169 | 332.8 | 535.2 | 0.946 | --- | 2.84 | 0.242 | 101.0 | 38.0 | 5.3 | 0.200 |
| 4-4550 | 4-5510 | 0.365 | 173.8 | -3.9 | -1.71 | 1.304 | 101.4 | 0.701 | 3.156 | 332.3 | 536.3 | 0.944 | --- | 2.67 | 0.240 | 98.5 | 36.7 | 5.1 | 0.197 |
| 4-4550 | 4-5530 | 0.366 | 174.6 | -3.5 | -1.54 | 1.304 | 101.6 | 0.700 | 3.146 | 331.8 | 537.4 | 0.943 | --- | 2.51 | 0.239 | 96.1 | 35.5 | 4.8 | 0.195 |
| 4-4550 | 4-5550 | 0.368 | 175.5 | -3.3 | -1.39 | 1.304 | 101.8 | 0.700 | 3.138 | 331.2 | 538.4 | 0.941 | --- | 2.38 | 0.238 | 93.7 | 34.3 | 4.6 | 0.193 |
| 4-4550 | 4-5570 | 0.371 | 176.4 | -3.1 | -1.25 | 1.303 | 102.0 | 0.700 | 3.132 | 330.7 | 539.4 | 0.939 | --- | 2.26 | 0.237 | 91.4 | 33.1 | 4.5 | 0.193 |
| 4-4550 | 4-5590 | 0.374 | 177.3 | -3.0 | -1.13 | 1.303 | 102.3 | 0.701 | 3.127 | 330.0 | 540.4 | 0.936 | 5.318 | 2.15 | 0.237 | 89.2 | 32.1 | 4.3 | 0.192 |
| 4-4550 | 4-5610 | 0.377 | 178.2 | -3.0 | -1.02 | 1.303 | 102.6 | 0.701 | 3.124 | 329.4 | 541.3 | 0.934 | 5.314 | 2.05 | 0.238 | 87.0 | 31.1 | 4.1 | 0.192 |
| 4-4550 | 4-5630 | 0.380 | 179.1 | -2.9 | -0.91 | 1.303 | 102.9 | 0.702 | 3.123 | 328.7 | 542.2 | 0.931 | 5.314 | 1.97 | 0.238 | 84.9 | 30.1 | 4.0 | 0.192 |
| 4-4550 | 4-5650 | 0.384 | 180.0 | -3.0 | -0.82 | 1.303 | 103.2 | 0.703 | 3.122 | 327.9 | 543.0 | 0.929 | 5.316 | 1.89 | 0.239 | 82.9 | 29.3 | 3.8 | 0.193 |
| 4-4550 | 4-5670 | 0.388 | 181.0 | -3.0 | -0.73 | 1.303 | 103.5 | 0.704 | 3.123 | 327.2 | 543.9 | 0.926 | 5.320 | 1.82 | 0.240 | 80.9 | 28.6 | 3.7 | 0.194 |
| 4-4550 | 4-5690 | 0.393 | 181.9 | -3.1 | -0.65 | 1.303 | 103.8 | 0.705 | 3.125 | 326.4 | 544.7 | 0.922 | 5.327 | 1.75 | 0.242 | 79.1 | 27.9 | 3.6 | 0.196 |
| 4-4550 | 4-5710 | 0.397 | 182.9 | -3.2 | -0.57 | 1.303 | 104.2 | 0.706 | 3.127 | 325.5 | 545.5 | 0.919 | 5.336 | 1.69 | 0.243 | 77.2 | 27.4 | 3.4 | 0.198 |
| 4-4550 | 4-5730 | 0.402 | 183.9 | -3.4 | -0.50 | 1.303 | 104.5 | 0.708 | 3.131 | 324.7 | 546.2 | 0.915 | 5.346 | 1.64 | 0.245 | 75.5 | 26.9 | 3.3 | 0.200 |
| 4-4550 | 4-5750 | 0.408 | 184.8 | -3.6 | -0.43 | 1.304 | 104.9 | 0.709 | 3.135 | 323.8 | 547.0 | 0.912 | 5.358 | 1.59 | 0.247 | 73.8 | 26.5 | 3.2 | 0.202 |
| 4-4550 | 4-5770 | 0.413 | 185.8 | -3.7 | -0.37 | 1.304 | 105.3 | 0.711 | 3.140 | 322.9 | 547.7 | 0.908 | 5.372 | 1.54 | 0.249 | 72.2 | 26.3 | 3.1 | 0.204 |
| 4-4550 | 4-5790 | 0.419 | 186.8 | -4.0 | -0.31 | 1.304 | 105.7 | 0.713 | 3.146 | 321.9 | 548.3 | 0.903 | 5.388 | 1.50 | 0.251 | 70.7 | 26.1 | 3.1 | 0.207 |
| 4-4550 | 4-5810 | 0.425 | 187.8 | -4.2 | -0.25 | 1.304 | 106.1 | 0.715 | 3.152 | 321.0 | 549.0 | 0.899 | 5.405 | 1.46 | 0.253 | 69.2 | 26.0 | 3.0 | 0.210 |
| 4-4550 | 4-5830 | 0.432 | 188.8 | -4.4 | -0.20 | 1.304 | 106.6 | 0.717 | 3.158 | 320.0 | 549.6 | 0.894 | 5.423 | 1.42 | 0.256 | 67.7 | 26.0 | 2.9 | 0.213 |
| 4-4550 | 4-5850 | 0.439 | 189.8 | -4.7 | -0.14 | 1.305 | 107.0 | 0.719 | 3.166 | 318.9 | 550.3 | 0.889 | 5.442 | 1.39 | 0.258 | 66.3 | 26.1 | 2.9 | 0.216 |
| 4-4550 | 4-5870 | 0.446 | 190.8 | -4.9 | -0.09 | 1.305 | 107.5 | 0.721 | 3.173 | 317.9 | 550.8 | 0.884 | 5.463 | 1.36 | 0.261 | 65.0 | 26.3 | 2.8 | 0.219 |
| 4-4550 | 4-5890 | 0.453 | 191.8 | -5.2 | -0.05 | 1.305 | 108.0 | 0.724 | 3.181 | 316.8 | 551.4 | 0.878 | 5.484 | 1.33 | 0.263 | 63.7 | 26.6 | 2.8 | 0.223 |
| 4-4550 | 4-5910 | 0.460 | 192.8 | -5.5 | 0.00 | 1.306 | 108.5 | 0.726 | 3.190 | 315.7 | 552.0 | 0.873 | 5.507 | 1.31 | 0.266 | 62.5 | 26.9 | 2.8 | 0.226 |
| 4-4550 | 4-5930 | 0.468 | 193.8 | -5.8 | 0.05 | 1.306 | 109.0 | 0.729 | 3.199 | 314.6 | 552.5 | 0.866 | 5.531 | 1.28 | 0.268 | 61.3 | 27.3 | 2.7 | 0.230 |
| 4-4550 | 4-5950 | 0.477 | 194.8 | -6.1 | 0.09 | 1.306 | 109.5 | 0.732 | 3.208 | 313.4 | 553.0 | 0.860 | 5.556 | 1.26 | 0.271 | 60.1 | 27.7 | 2.7 | 0.233 |
| 4-4550 | 4-5970 | 0.485 | 195.8 | -6.4 | 0.13 | 1.307 | 110.0 | 0.735 | 3.217 | 312.2 | 553.5 | 0.853 | 5.581 | 1.24 | 0.274 | 59.0 | 28.3 | 2.7 | 0.237 |
| 4-4550 | 4-5990 | 0.494 | 196.8 | -6.7 | 0.17 | 1.307 | 110.6 | 0.738 | 3.227 | 311.0 | 554.0 | 0.847 | 5.608 | 1.22 | 0.276 | 57.9 | 28.9 | 2.7 | 0.241 |
| 4-4550 | 4-6010 | 0.503 | 197.7 | -7.0 | 0.21 | 1.307 | 111.1 | 0.741 | 3.237 | 309.8 | 554.4 | 0.839 | 5.635 | 1.20 | 0.279 | 56.9 | 29.5 | 2.7 | 0.245 |
| 4-4550 | 4-6030 | 0.512 | 198.7 | -7.3 | 0.25 | 1.308 | 111.7 | 0.744 | 3.248 | 308.5 | 554.9 | 0.832 | 5.663 | 1.19 | 0.282 | 55.8 | 30.2 | 2.7 | 0.249 |
| 4-4550 | 4-6050 | 0.522 | 199.7 | -7.6 | 0.29 | 1.308 | 112.3 | 0.747 | 3.258 | 307.3 | 555.3 | 0.824 | 5.692 | 1.17 | 0.285 | 54.8 | 31.0 | 2.7 | 0.253 |
| 4-4550 | 4-6070 | 0.532 | 200.7 | -7.9 | 0.32 | 1.309 | 112.9 | 0.750 | 3.269 | 306.0 | 555.7 | 0.816 | 5.722 | 1.16 | 0.287 | 53.9 | 31.8 | 2.7 | 0.258 |
| 4-4550 | 4-6090 | 0.542 | 201.7 | -8.2 | 0.36 | 1.309 | 113.5 | 0.754 | 3.280 | 304.6 | 556.0 | 0.807 | 5.753 | 1.15 | 0.290 | 52.9 | 32.7 | 2.7 | 0.262 |
| 4-4550 | 4-6110 | 0.553 | 202.6 | -8.6 | 0.39 | 1.309 | 114.1 | 0.757 | 3.291 | 303.3 | 556.4 | 0.798 | 5.784 | 1.13 | 0.293 | 52.0 | 33.6 | 2.7 | 0.266 |
| 4-4550 | 4-6130 | 0.564 | 203.6 | -8.9 | 0.43 | 1.310 | 114.7 | 0.761 | 3.303 | 301.9 | 556.7 | 0.789 | 5.816 | 1.12 | 0.296 | 51.1 | 34.5 | 2.7 | 0.271 |
| 4-4550 | 4-6150 | 0.575 | 204.6 | -9.2 | 0.46 | 1.310 | 115.4 | 0.765 | 3.314 | 300.5 | 557.0 | 0.780 | 5.849 | 1.12 | 0.298 | 50.2 | 35.5 | 2.7 | 0.275 |
| 4-4560 | 4-4920 | 0.607 | 188.4 | 2.8 | 2.45 | 1.516 | 106.2 | 1.254 | -3.625 | 331.0 | 479.6 | 0.920 | --- | -1.81 | 0.802 | 160.8 | 54.6 | 1.9 | 0.776 |
| 4-4560 | 4-4940 | 0.569 | 187.3 | 3.8 | 2.54 | 1.488 | 105.0 | 1.176 | -5.255 | 332.2 | 482.4 | 0.927 | --- | -1.89 | 0.747 | 159.6 | 55.0 | 1.8 | 0.721 |
| 4-4560 | 4-4960 | 0.535 | 186.3 | 4.9 | 2.65 | 1.463 | 104.0 | 1.111 | -8.434 | 333.4 | 485.1 | 0.934 | --- | -1.98 | 0.697 | 158.3 | 55.3 | 1.8 | 0.671 |
| 4-4560 | 4-4980 | 0.507 | 185.3 | 6.1 | 2.76 | 1.443 | 103.0 | 1.05 | 517.234 | 334.6 | 487.7 | 0.940 | --- | -2.09 | 0.652 | 157.0 | 55.5 | 1.7 | 0.627 |
| 4-4560 | 4-5000 | 0.482 | 184.3 | 7.3 | 2.89 | 1.425 | 102.2 | 1.00 | 648.839 | 335.7 | 490.4 | 0.945 | --- | -2.20 | 0.612 | 155.6 | 55.7 | 1.6 | 0.586 |
| 4-4560 | 4-5020 | 0.460 | 183.4 | 8.5 | 3.04 | 1.409 | 101.4 | 0.96 | 526.987 | 336.8 | 492.9 | 0.949 | --- | -2.33 | 0.575 | 154.1 | 55.9 | 1.5 | 0.549 |
| 4-4560 | 4-5040 | 0.442 | 182.6 | 9.8 | 3.20 | 1.396 | 100.7 | 0.92 | 913.405 | 337.8 | 495.5 | 0.953 | --- | -2.48 | 0.541 | 152.6 | 56.0 | 1.3 | 0.516 |
| 4-4560 | 4-5060 | 0.426 | 181.8 | 11.1 | 3.39 | 1.384 | 100.1 | 0.898 | 9.353 | 338.7 | 497.9 | 0.957 | --- | -2.65 | 0.511 | 151.0 | 56.0 | 1.2 | 0.485 |
| 4-4560 | 4-5080 | 0.412 | 181.1 | 12.5 | 3.60 | 1.374 | 99.5 | 0.871 | 7.417 | 339.6 | 500.3 | 0.960 | --- | -2.85 | 0.483 | 149.3 | 56.0 | 1.0 | 0.457 |
| 4-4560 | 4-5100 | 0.400 | 180.6 | 14.0 | 3.85 | 1.365 | 99.0 | 0.847 | 6.288 | 340.4 | 502.6 | 0.962 | --- | -3.09 | 0.457 | 147.5 | 55.9 | 0.8 | 0.431 |
| 4-4560 | 4-5120 | 0.391 | 180.2 | 15.6 | 4.14 | 1.357 | 98.5 | 0.826 | 5.554 | 341.1 | 504.9 | 0.965 | --- | -3.37 | 0.434 | 145.7 | 55.7 | 0.5 | 0.407 |
| 4-4560 | 4-5140 | 0.383 | 180.0 | 17.3 | 4.49 | 1.351 | 98.2 | 0.808 | 5.041 | 341.7 | 507.0 | 0.967 | --- | -3.71 | 0.412 | 143.8 | 55.5 | 0.2 | 0.385 |
| 4-4560 | 4-5160 | 0.377 | 180.1 | 19.3 | 4.93 | 1.345 | 97.8 | 0.792 | 4.665 | 342.3 | 509.1 | 0.968 | --- | -4.13 | 0.393 | 141.8 | 55.2 | -0.2 | 0.365 |
| 4-4560 | 4-5180 | 0.373 | 180.4 | 21.5 | 5.47 | 1.340 | 97.5 | 0.779 | 4.379 | 342.8 | 511.1 | 0.969 | --- | -4.66 | 0.375 | 139.8 | 54.8 | -0.8 | 0.347 |
| 4-4560 | 4-5200 | 0.371 | 181.2 | 24.2 | 6.18 | 1.335 | 97.3 | 0.766 | 4.156 | 343.2 | 513.1 | 0.971 | --- | -5.36 | 0.359 | 137.6 | 54.3 | -1.4 | 0.330 |
| 4-4560 | 4-5220 | 0.373 | 182.6 | 27.5 | 7.13 | 1.331 | 97.0 | 0.756 | 3.978 | 343.6 | 515.0 | 0.971 | --- | -6.30 | 0.344 | 135.4 | 53.7 | -2.4 | 0.315 |
| 4-4560 | 4-5240 | 0.380 | 184.9 | 31.7 | 8.49 | 1.327 | 96.9 | 0.746 | 3.835 | 343.9 | 516.8 | 0.972 | --- | -7.64 | 0.330 | 133.1 | 53.0 | -3.7 | 0.301 |
| 4-4560 | 4-5260 | 0.398 | 189.0 | 37.5 | 10.59 | 1.324 | 96.7 | 0.738 | 3.717 | 344.1 | 518.6 | 0.973 | --- | -9.73 | 0.318 | 130.8 | 52.2 | -5.7 | 0.290 |
| 4-4560 | 4-5280 | 0.438 | 197.2 | 45.6 | 14.25 | 1.322 | 96.6 | 0.731 | 3.619 | 344.3 | 520.3 | 0.973 | --- | -13.38 | 0.307 | 128.4 | 51.0 | -9.0 | 0.282 |
| 4-4560 | 4-5300 | 0.551 | 217.6 | 55.9 | 22.15 | 1.319 | 96.5 | 0.725 | 3.538 | 344.5 | 521.9 | 0.974 | --- | -21.26 | 0.297 | 125.9 | 49.0 | -15.4 | 0.286 |
| 4-4560 | 4-5320 | 0.989 | 273.0 | 55.6 | 47.90 | 1.317 | 96.4 | 0.719 | 3.470 | 344.7 | 523.5 | 0.974 | --- | -47.01 | 0.287 | 123.4 | 41.4 | -27.5 | 0.357 |
| 4-4560 | 4-5340 | 1.089 | 59.3 | -78.6 | -53.76 | 1.315 | 96.7 | 0.715 | 3.412 | 343.8 | 525.0 | 0.972 | --- | 54.67 | 0.279 | 121.0 | 35.6 | 32.8 | 0.379 |
| 4-4560 | 4-5360 | 0.547 | 140.5 | -55.1 | -22.11 | 1.314 | 96.6 | 0.711 | 3.363 | 344.0 | 526.4 | 0.973 | --- | 23.03 | 0.272 | 118.4 | 44.2 | 22.8 | 0.266 |
| 4-4560 | 4-5380 | 0.416 | 152.1 | -37.8 | -13.11 | 1.312 | 96.6 | 0.707 | 3.322 | 343.9 | 527.8 | 0.973 | --- | 14.05 | 0.266 | 115.8 | 45.0 | 16.3 | 0.239 |
| 4-4560 | 4-5400 | 0.371 | 157.4 | -27.2 | -9.10 | 1.311 | 96.7 | 0.704 | 3.287 | 343.8 | 529.2 | 0.972 | --- | 10.05 | 0.261 | 113.2 | 44.4 | 12.8 | 0.226 |
| 4-4560 | 4-5420 | 0.350 | 160.8 | -20.4 | -6.85 | 1.310 | 96.8 | 0.702 | 3.257 | 343.5 | 530.5 | 0.972 | --- | 7.82 | 0.256 | 110.6 | 43.5 | 10.7 | 0.217 |
| 4-4560 | 4-5440 | 0.340 | 163.2 | -15.8 | -5.42 | 1.309 | 96.9 | 0.699 | 3.232 | 343.2 | 531.7 | 0.972 | --- | 6.39 | 0.252 | 108.1 | 42.3 | 9.3 | 0.211 |
| 4-4560 | 4-5460 | 0.335 | 165.1 | -12.5 | -4.42 | 1.308 | 97.0 | 0.698 | 3.210 | 342.9 | 533.0 | 0.971 | --- | 5.41 | 0.249 | 105.5 | 41.1 | 8.3 | 0.206 |
| 4-4560 | 4-5480 | 0.332 | 166.7 | -10.1 | -3.69 | 1.308 | 97.2 | 0.696 | 3.193 | 342.5 | 534.1 | 0.970 | --- | 4.69 | 0.246 | 103.0 | 39.9 | 7.6 | 0.201 |
| 4-4560 | 4-5500 | 0.330 | 168.2 | -8.4 | -3.12 | 1.307 | 97.3 | 0.695 | 3.178 | 342.1 | 535.3 | 0.969 | --- | 4.14 | 0.244 | 100.6 | 38.6 | 6.9 | 0.198 |
| 4-4560 | 4-5520 | 0.330 | 169.5 | -7.0 | -2.68 | 1.307 | 97.5 | 0.694 | 3.166 | 341.6 | 536.4 | 0.968 | --- | 3.70 | 0.242 | 98.2 | 37.4 | 6.4 | 0.195 |
| 4-4560 | 4-5540 | 0.330 | 170.8 | -6.0 | -2.32 | 1.306 | 97.7 | 0.694 | 3.156 | 341.1 | 537.4 | 0.967 | --- | 3.35 | 0.241 | 95.8 | 36.2 | 6.0 | 0.193 |
| 4-4560 | 4-5560 | 0.331 | 172.0 | -5.2 | -2.01 | 1.306 | 97.9 | 0.693 | 3.149 | 340.5 | 538.4 | 0.966 | --- | 3.07 | 0.240 | 93.5 | 35.0 | 5.6 | 0.191 |
| 4-4560 | 4-5580 | 0.332 | 173.2 | -4.5 | -1.76 | 1.306 | 98.2 | 0.693 | 3.143 | 340.0 | 539.4 | 0.964 | --- | 2.83 | 0.240 | 91.3 | 33.9 | 5.3 | 0.190 |
| 4-4560 | 4-5600 | 0.334 | 174.4 | -4.1 | -1.54 | 1.305 | 98.4 | 0.693 | 3.139 | 339.3 | 540.4 | 0.963 | 5.315 | 2.62 | 0.240 | 89.1 | 32.8 | 5.0 | 0.190 |
| 4-4560 | 4-5620 | 0.336 | 175.6 | -3.8 | -1.35 | 1.305 | 98.7 | 0.694 | 3.136 | 338.7 | 541.3 | 0.961 | 5.311 | 2.45 | 0.241 | 87.0 | 31.8 | 4.7 | 0.189 |
| 4-4560 | 4-5640 | 0.339 | 176.8 | -3.6 | -1.19 | 1.305 | 99.0 | 0.694 | 3.135 | 338.0 | 542.2 | 0.959 | 5.311 | 2.29 | 0.241 | 85.0 | 30.9 | 4.5 | 0.190 |
| 4-4560 | 4-5660 | 0.341 | 178.0 | -3.4 | -1.04 | 1.305 | 99.3 | 0.695 | 3.135 | 337.2 | 543.1 | 0.957 | 5.312 | 2.16 | 0.242 | 83.0 | 30.1 | 4.3 | 0.190 |
| 4-4560 | 4-5680 | 0.344 | 179.2 | -3.4 | -0.91 | 1.305 | 99.6 | 0.695 | 3.136 | 336.5 | 543.9 | 0.955 | 5.317 | 2.04 | 0.244 | 81.1 | 29.4 | 4.1 | 0.191 |
| 4-4560 | 4-5700 | 0.348 | 180.4 | -3.4 | -0.79 | 1.305 | 100.0 | 0.696 | 3.138 | 335.7 | 544.8 | 0.953 | 5.323 | 1.94 | 0.245 | 79.3 | 28.8 | 3.9 | 0.193 |
| 4-4560 | 4-5720 | 0.352 | 181.6 | -3.4 | -0.68 | 1.306 | 100.3 | 0.697 | 3.141 | 334.9 | 545.5 | 0.950 | 5.331 | 1.85 | 0.247 | 77.6 | 28.2 | 3.7 | 0.194 |
| 4-4560 | 4-5740 | 0.356 | 182.8 | -3.5 | -0.59 | 1.306 | 100.7 | 0.699 | 3.144 | 334.0 | 546.3 | 0.948 | 5.341 | 1.76 | 0.248 | 75.9 | 27.8 | 3.6 | 0.196 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4560 | 4-5760 | 0.360 | 184.0 | -3.7 | -0.50 | 1.306 | 101.0 | 0.700 | 3.149 | 333.1 | 547.0 | 0.945 | 5.353 | 1.69 | 0.250 | 74.3 | 27.4 | 3.5 | 0.198 |
| 4-4560 | 4-5780 | 0.364 | 185.2 | -3.8 | -0.42 | 1.306 | 101.4 | 0.701 | 3.154 | 332.2 | 547.8 | 0.942 | 5.366 | 1.62 | 0.252 | 72.8 | 27.2 | 3.4 | 0.200 |
| 4-4560 | 4-5800 | 0.369 | 186.4 | -4.0 | -0.34 | 1.306 | 101.8 | 0.703 | 3.160 | 331.3 | 548.5 | 0.939 | 5.381 | 1.56 | 0.254 | 71.3 | 27.0 | 3.2 | 0.203 |
| 4-4560 | 4-5820 | 0.375 | 187.6 | -4.3 | -0.27 | 1.307 | 102.2 | 0.705 | 3.166 | 330.3 | 549.1 | 0.935 | 5.397 | 1.50 | 0.257 | 69.8 | 26.9 | 3.2 | 0.206 |
| 4-4560 | 4-5840 | 0.380 | 188.8 | -4.5 | -0.20 | 1.307 | 102.6 | 0.706 | 3.173 | 329.3 | 549.8 | 0.932 | 5.415 | 1.45 | 0.259 | 68.5 | 26.9 | 3.1 | 0.208 |
| 4-4560 | 4-5860 | 0.386 | 190.0 | -4.8 | -0.14 | 1.307 | 103.1 | 0.708 | 3.180 | 328.3 | 550.4 | 0.928 | 5.433 | 1.41 | 0.261 | 67.1 | 27.0 | 3.0 | 0.211 |
| 4-4560 | 4-5880 | 0.392 | 191.2 | -5.1 | -0.08 | 1.307 | 103.5 | 0.710 | 3.188 | 327.3 | 551.0 | 0.924 | 5.453 | 1.36 | 0.264 | 65.9 | 27.2 | 2.9 | 0.214 |
| 4-4560 | 4-5900 | 0.398 | 192.4 | -5.4 | -0.03 | 1.308 | 104.0 | 0.712 | 3.197 | 326.2 | 551.6 | 0.919 | 5.474 | 1.32 | 0.267 | 64.6 | 27.4 | 2.9 | 0.217 |
| 4-4560 | 4-5920 | 0.405 | 193.6 | -5.7 | 0.03 | 1.308 | 104.4 | 0.715 | 3.205 | 325.1 | 552.2 | 0.915 | 5.496 | 1.29 | 0.269 | 63.4 | 27.7 | 2.8 | 0.221 |
| 4-4560 | 4-5940 | 0.411 | 194.8 | -6.1 | 0.08 | 1.308 | 104.9 | 0.717 | 3.214 | 324.0 | 552.7 | 0.910 | 5.518 | 1.25 | 0.272 | 62.3 | 28.1 | 2.8 | 0.224 |
| 4-4560 | 4-5960 | 0.419 | 195.9 | -6.4 | 0.12 | 1.309 | 105.4 | 0.719 | 3.223 | 322.9 | 553.3 | 0.905 | 5.542 | 1.22 | 0.274 | 61.2 | 28.6 | 2.8 | 0.228 |
| 4-4560 | 4-5980 | 0.426 | 197.1 | -6.7 | 0.17 | 1.309 | 105.9 | 0.722 | 3.233 | 321.7 | 553.8 | 0.900 | 5.567 | 1.19 | 0.277 | 60.1 | 29.1 | 2.7 | 0.231 |
| 4-4560 | 4-6000 | 0.434 | 198.3 | -7.1 | 0.21 | 1.309 | 106.5 | 0.724 | 3.243 | 320.5 | 554.3 | 0.894 | 5.592 | 1.17 | 0.280 | 59.1 | 29.7 | 2.7 | 0.235 |
| 4-4560 | 4-6020 | 0.442 | 199.4 | -7.4 | 0.25 | 1.310 | 107.0 | 0.727 | 3.253 | 319.3 | 554.7 | 0.888 | 5.618 | 1.14 | 0.282 | 58.1 | 30.3 | 2.7 | 0.239 |
| 4-4560 | 4-6040 | 0.450 | 200.6 | -7.8 | 0.29 | 1.310 | 107.5 | 0.730 | 3.264 | 318.1 | 555.2 | 0.882 | 5.645 | 1.12 | 0.285 | 57.1 | 31.0 | 2.7 | 0.242 |
| 4-4560 | 4-6060 | 0.459 | 201.7 | -8.1 | 0.33 | 1.311 | 108.1 | 0.733 | 3.274 | 316.8 | 555.6 | 0.876 | 5.673 | 1.10 | 0.288 | 56.2 | 31.8 | 2.7 | 0.246 |
| 4-4560 | 4-6080 | 0.468 | 202.9 | -8.6 | 0.37 | 1.311 | 108.7 | 0.735 | 3.285 | 315.6 | 556.0 | 0.869 | 5.701 | 1.08 | 0.290 | 55.3 | 32.6 | 2.7 | 0.250 |
| 4-4560 | 4-6100 | 0.477 | 204.0 | -8.9 | 0.41 | 1.311 | 109.2 | 0.739 | 3.296 | 314.3 | 556.4 | 0.862 | 5.731 | 1.07 | 0.293 | 54.4 | 33.4 | 2.7 | 0.254 |
| 4-4560 | 4-6120 | 0.487 | 205.1 | -9.2 | 0.44 | 1.312 | 109.8 | 0.742 | 3.307 | 312.9 | 556.8 | 0.855 | 5.760 | 1.05 | 0.296 | 53.5 | 34.3 | 2.7 | 0.258 |
| 4-4560 | 4-6140 | 0.496 | 206.2 | -9.6 | 0.48 | 1.312 | 110.4 | 0.745 | 3.319 | 311.6 | 557.2 | 0.847 | 5.791 | 1.03 | 0.298 | 52.7 | 35.2 | 2.7 | 0.262 |
| 4-4560 | 4-6160 | 0.506 | 207.3 | -9.9 | 0.51 | 1.312 | 111.1 | 0.748 | 3.331 | 310.2 | 557.5 | 0.839 | 5.822 | 1.02 | 0.301 | 51.8 | 36.2 | 2.7 | 0.267 |
| 4-4570 | 4-4890 | 0.639 | 189.5 | 0.8 | 1.86 | 1.583 | 103.5 | 1.451 | -2.087 | 337.2 | 473.4 | 0.941 | --- | -1.11 | 0.920 | 162.4 | 54.8 | 2.2 | 0.890 |
| 4-4570 | 4-4910 | 0.591 | 188.1 | 1.8 | 1.90 | 1.544 | 102.3 | 1.339 | -2.794 | 338.5 | 476.3 | 0.948 | --- | -1.14 | 0.851 | 161.3 | 55.2 | 2.1 | 0.822 |
| 4-4570 | 4-4930 | 0.550 | 186.7 | 2.8 | 1.95 | 1.512 | 101.2 | 1.246 | -3.877 | 339.9 | 479.2 | 0.953 | --- | -1.18 | 0.790 | 160.1 | 55.5 | 2.1 | 0.762 |
| 4-4570 | 4-4950 | 0.516 | 185.2 | 3.9 | 2.00 | 1.484 | 100.1 | 1.168 | -5.718 | 341.2 | 482.0 | 0.959 | --- | -1.22 | 0.736 | 158.9 | 55.8 | 2.1 | 0.708 |
| 4-4570 | 4-4970 | 0.484 | 183.8 | 5.0 | 2.05 | 1.460 | 99.2 | 1.101 | -9.502 | 342.5 | 484.8 | 0.963 | --- | -1.26 | 0.687 | 157.7 | 56.1 | 2.0 | 0.659 |
| 4-4570 | 4-4990 | 0.459 | 182.3 | 6.2 | 2.11 | 1.440 | 98.3 | 1.045 | 21.512 | 343.8 | 487.6 | 0.967 | --- | -1.30 | 0.643 | 156.3 | 56.3 | 2.0 | 0.616 |
| 4-4570 | 4-5010 | 0.437 | 180.9 | 7.3 | 2.17 | 1.423 | 97.5 | 0.997 | 02.290 | 344.9 | 490.3 | 0.970 | --- | -1.35 | 0.603 | 154.9 | 56.4 | 2.0 | 0.576 |
| 4-4570 | 4-5030 | 0.417 | 179.5 | 8.4 | 2.23 | 1.408 | 96.8 | 0.955 | 21.820 | 346.1 | 492.9 | 0.973 | --- | -1.41 | 0.567 | 153.5 | 56.6 | 1.9 | 0.540 |
| 4-4570 | 4-5050 | 0.401 | 178.1 | 9.5 | 2.30 | 1.394 | 96.2 | 0.920 | 12.154 | 347.1 | 495.5 | 0.975 | --- | -1.47 | 0.534 | 151.9 | 56.6 | 1.8 | 0.507 |
| 4-4570 | 4-5070 | 0.387 | 176.9 | 10.6 | 2.38 | 1.383 | 95.6 | 0.889 | 8.799 | 348.1 | 498.0 | 0.977 | --- | -1.53 | 0.504 | 150.3 | 56.6 | 1.8 | 0.476 |
| 4-4570 | 4-5090 | 0.375 | 175.7 | 11.7 | 2.47 | 1.373 | 95.1 | 0.862 | 7.106 | 349.0 | 500.4 | 0.978 | --- | -1.61 | 0.477 | 148.6 | 56.6 | 1.7 | 0.449 |
| 4-4570 | 4-5110 | 0.365 | 174.7 | 12.8 | 2.56 | 1.365 | 94.6 | 0.839 | 6.090 | 349.9 | 502.8 | 0.980 | --- | -1.69 | 0.452 | 146.8 | 56.4 | 1.6 | 0.423 |
| 4-4570 | 4-5130 | 0.356 | 173.7 | 13.8 | 2.66 | 1.357 | 94.2 | 0.819 | 5.417 | 350.6 | 505.1 | 0.981 | --- | -1.78 | 0.429 | 145.0 | 56.2 | 1.5 | 0.400 |
| 4-4570 | 4-5150 | 0.349 | 172.9 | 14.8 | 2.78 | 1.351 | 93.9 | 0.801 | 4.942 | 351.3 | 507.3 | 0.982 | --- | -1.89 | 0.408 | 143.1 | 56.0 | 1.3 | 0.378 |
| 4-4570 | 4-5170 | 0.342 | 172.3 | 15.9 | 2.91 | 1.345 | 93.6 | 0.786 | 4.590 | 351.9 | 509.4 | 0.982 | --- | -2.01 | 0.389 | 141.0 | 55.6 | 1.2 | 0.358 |
| 4-4570 | 4-5190 | 0.337 | 171.7 | 16.9 | 3.06 | 1.340 | 93.3 | 0.773 | 4.322 | 352.4 | 511.4 | 0.983 | --- | -2.15 | 0.371 | 139.0 | 55.2 | 1.0 | 0.340 |
| 4-4570 | 4-5210 | 0.333 | 171.4 | 18.0 | 3.23 | 1.336 | 93.1 | 0.761 | 4.111 | 352.9 | 513.4 | 0.984 | --- | -2.31 | 0.355 | 136.8 | 54.7 | 0.8 | 0.323 |
| 4-4570 | 4-5230 | 0.329 | 171.2 | 19.1 | 3.43 | 1.332 | 92.9 | 0.750 | 3.943 | 353.2 | 515.3 | 0.984 | --- | -2.50 | 0.340 | 134.6 | 54.2 | 0.5 | 0.308 |
| 4-4570 | 4-5250 | 0.327 | 171.2 | 20.2 | 3.67 | 1.328 | 92.8 | 0.741 | 3.806 | 353.5 | 517.1 | 0.984 | --- | -2.73 | 0.327 | 132.3 | 53.5 | 0.2 | 0.294 |
| 4-4570 | 4-5270 | 0.325 | 171.4 | 21.5 | 3.96 | 1.325 | 92.7 | 0.734 | 3.694 | 353.7 | 518.9 | 0.984 | --- | -3.00 | 0.315 | 129.9 | 52.8 | -0.1 | 0.281 |
| 4-4570 | 4-5290 | 0.324 | 171.8 | 23.0 | 4.31 | 1.323 | 92.6 | 0.727 | 3.601 | 353.9 | 520.6 | 0.984 | --- | -3.34 | 0.304 | 127.5 | 52.0 | -0.6 | 0.269 |
| 4-4570 | 4-5310 | 0.324 | 172.5 | 24.8 | 4.75 | 1.320 | 92.5 | 0.721 | 3.523 | 354.0 | 522.2 | 0.985 | --- | -3.77 | 0.295 | 125.1 | 51.1 | -1.1 | 0.258 |
| 4-4570 | 4-5330 | 0.326 | 173.6 | 26.9 | 5.32 | 1.318 | 92.5 | 0.715 | 3.458 | 354.0 | 523.7 | 0.985 | --- | -4.33 | 0.286 | 122.6 | 50.1 | -1.9 | 0.248 |
| 4-4570 | 4-5350 | 0.329 | 175.2 | 29.6 | 6.09 | 1.316 | 92.5 | 0.711 | 3.403 | 353.9 | 525.3 | 0.985 | --- | -5.10 | 0.278 | 120.1 | 49.0 | -2.8 | 0.240 |
| 4-4570 | 4-5370 | 0.337 | 177.6 | 33.2 | 7.20 | 1.315 | 92.5 | 0.707 | 3.356 | 353.8 | 526.7 | 0.984 | --- | -6.19 | 0.272 | 117.5 | 47.9 | -4.1 | 0.233 |
| 4-4570 | 4-5390 | 0.352 | 181.5 | 38.3 | 8.91 | 1.314 | 92.6 | 0.703 | 3.317 | 353.7 | 528.1 | 0.984 | --- | -7.90 | 0.266 | 114.9 | 46.7 | -6.2 | 0.227 |
| 4-4570 | 4-5410 | 0.385 | 188.8 | 46.0 | 11.92 | 1.312 | 92.7 | 0.700 | 3.284 | 353.5 | 529.4 | 0.984 | --- | -10.90 | 0.261 | 112.4 | 45.4 | -9.5 | 0.225 |
| 4-4570 | 4-5430 | 0.478 | 207.1 | 57.5 | 18.54 | 1.311 | 92.8 | 0.698 | 3.255 | 353.3 | 530.7 | 0.984 | --- | -17.51 | 0.256 | 109.8 | 43.6 | -16.1 | 0.232 |
| 4-4570 | 4-5450 | 0.884 | 272.4 | 62.1 | 42.31 | 1.311 | 92.8 | 0.696 | 3.231 | 353.2 | 532.0 | 0.984 | --- | -41.27 | 0.252 | 107.3 | 38.6 | -29.5 | 0.305 |
| 4-4570 | 4-5470 | 0.967 | 73.5 | -72.5 | -47.08 | 1.310 | 93.2 | 0.694 | 3.211 | 352.1 | 533.2 | 0.983 | --- | 48.14 | 0.249 | 104.8 | 33.4 | 34.7 | 0.330 |
| 4-4570 | 4-5490 | 0.465 | 140.0 | -48.4 | -17.74 | 1.309 | 93.3 | 0.692 | 3.195 | 352.0 | 534.4 | 0.983 | --- | 18.81 | 0.247 | 102.4 | 38.3 | 22.3 | 0.224 |
| 4-4570 | 4-5510 | 0.365 | 152.0 | -31.5 | -10.28 | 1.309 | 93.4 | 0.691 | 3.181 | 351.6 | 535.5 | 0.982 | --- | 11.36 | 0.245 | 99.9 | 38.2 | 15.3 | 0.205 |
| 4-4570 | 4-5530 | 0.332 | 157.6 | -21.7 | -7.02 | 1.308 | 93.6 | 0.690 | 3.170 | 351.1 | 536.6 | 0.982 | --- | 8.11 | 0.244 | 97.6 | 37.3 | 11.8 | 0.197 |
| 4-4570 | 4-5550 | 0.319 | 161.3 | -15.6 | -5.20 | 1.308 | 93.8 | 0.690 | 3.161 | 350.6 | 537.6 | 0.981 | --- | 6.30 | 0.243 | 95.3 | 36.3 | 9.7 | 0.193 |
| 4-4570 | 4-5570 | 0.313 | 164.0 | -11.7 | -4.04 | 1.308 | 94.1 | 0.689 | 3.154 | 350.0 | 538.6 | 0.981 | --- | 5.15 | 0.242 | 93.0 | 35.2 | 8.3 | 0.191 |
| 4-4570 | 4-5590 | 0.310 | 166.2 | -9.0 | -3.23 | 1.307 | 94.3 | 0.689 | 3.149 | 349.4 | 539.6 | 0.980 | --- | 4.35 | 0.242 | 90.9 | 34.2 | 7.3 | 0.189 |
| 4-4570 | 4-5610 | 0.309 | 168.2 | -7.1 | -2.64 | 1.307 | 94.6 | 0.689 | 3.145 | 348.8 | 540.6 | 0.979 | 5.312 | 3.77 | 0.242 | 88.7 | 33.2 | 6.5 | 0.189 |
| 4-4570 | 4-5630 | 0.309 | 170.0 | -5.7 | -2.18 | 1.307 | 94.8 | 0.689 | 3.143 | 348.1 | 541.5 | 0.978 | 5.309 | 3.33 | 0.243 | 86.7 | 32.2 | 5.9 | 0.188 |
| 4-4570 | 4-5650 | 0.310 | 171.7 | -4.8 | -1.82 | 1.307 | 95.1 | 0.689 | 3.143 | 347.4 | 542.4 | 0.977 | 5.308 | 2.98 | 0.244 | 84.7 | 31.4 | 5.4 | 0.188 |
| 4-4570 | 4-5670 | 0.311 | 173.3 | -4.1 | -1.53 | 1.307 | 95.4 | 0.689 | 3.143 | 346.7 | 543.2 | 0.976 | 5.310 | 2.70 | 0.245 | 82.9 | 30.6 | 5.0 | 0.189 |
| 4-4570 | 4-5690 | 0.313 | 174.9 | -3.6 | -1.29 | 1.307 | 95.7 | 0.690 | 3.145 | 345.9 | 544.1 | 0.975 | 5.315 | 2.47 | 0.246 | 81.0 | 29.9 | 4.7 | 0.190 |
| 4-4570 | 4-5710 | 0.315 | 176.4 | -3.3 | -1.08 | 1.307 | 96.1 | 0.691 | 3.147 | 345.1 | 544.9 | 0.973 | 5.321 | 2.27 | 0.247 | 79.3 | 29.3 | 4.4 | 0.191 |
| 4-4570 | 4-5730 | 0.317 | 177.9 | -3.2 | -0.91 | 1.307 | 96.4 | 0.692 | 3.150 | 344.3 | 545.7 | 0.972 | 5.329 | 2.11 | 0.249 | 77.6 | 28.8 | 4.2 | 0.192 |
| 4-4570 | 4-5750 | 0.320 | 179.4 | -3.1 | -0.76 | 1.308 | 96.8 | 0.692 | 3.155 | 343.4 | 546.5 | 0.970 | 5.339 | 1.97 | 0.251 | 76.0 | 28.4 | 3.9 | 0.194 |
| 4-4570 | 4-5770 | 0.323 | 180.9 | -3.1 | -0.62 | 1.308 | 97.1 | 0.694 | 3.159 | 342.6 | 547.2 | 0.968 | 5.351 | 1.85 | 0.253 | 74.4 | 28.1 | 3.7 | 0.196 |
| 4-4570 | 4-5790 | 0.326 | 182.4 | -3.2 | -0.50 | 1.308 | 97.5 | 0.695 | 3.165 | 341.7 | 547.9 | 0.966 | 5.364 | 1.74 | 0.255 | 73.0 | 27.8 | 3.6 | 0.198 |
| 4-4570 | 4-5810 | 0.330 | 183.9 | -3.4 | -0.40 | 1.308 | 97.9 | 0.696 | 3.171 | 340.7 | 548.6 | 0.964 | 5.378 | 1.64 | 0.257 | 71.5 | 27.7 | 3.4 | 0.200 |
| 4-4570 | 4-5830 | 0.333 | 185.3 | -3.6 | -0.30 | 1.309 | 98.3 | 0.697 | 3.178 | 339.8 | 549.3 | 0.962 | 5.394 | 1.56 | 0.259 | 70.2 | 27.6 | 3.3 | 0.203 |
| 4-4570 | 4-5850 | 0.338 | 186.8 | -3.8 | -0.22 | 1.309 | 98.7 | 0.699 | 3.185 | 338.8 | 549.9 | 0.959 | 5.411 | 1.49 | 0.262 | 68.8 | 27.6 | 3.2 | 0.205 |
| 4-4570 | 4-5870 | 0.342 | 188.3 | -4.1 | -0.14 | 1.309 | 99.1 | 0.700 | 3.193 | 337.8 | 550.6 | 0.957 | 5.429 | 1.42 | 0.264 | 67.6 | 27.7 | 3.1 | 0.208 |
| 4-4570 | 4-5890 | 0.347 | 189.7 | -4.5 | -0.07 | 1.309 | 99.6 | 0.702 | 3.201 | 336.7 | 551.2 | 0.954 | 5.448 | 1.36 | 0.267 | 66.4 | 27.9 | 3.0 | 0.211 |
| 4-4570 | 4-5910 | 0.352 | 191.2 | -4.8 | 0.00 | 1.310 | 100.0 | 0.704 | 3.209 | 335.7 | 551.8 | 0.951 | 5.468 | 1.30 | 0.269 | 65.2 | 28.2 | 2.9 | 0.214 |
| 4-4570 | 4-5930 | 0.357 | 192.6 | -5.2 | 0.06 | 1.310 | 100.5 | 0.706 | 3.218 | 334.6 | 552.4 | 0.947 | 5.489 | 1.26 | 0.272 | 64.1 | 28.5 | 2.9 | 0.217 |
| 4-4570 | 4-5950 | 0.363 | 194.0 | -5.5 | 0.12 | 1.310 | 100.9 | 0.708 | 3.227 | 333.5 | 552.9 | 0.944 | 5.511 | 1.21 | 0.275 | 63.0 | 28.9 | 2.8 | 0.220 |
| 4-4570 | 4-5970 | 0.369 | 195.4 | -5.9 | 0.17 | 1.311 | 101.4 | 0.710 | 3.237 | 332.4 | 553.5 | 0.940 | 5.533 | 1.17 | 0.277 | 61.9 | 29.3 | 2.8 | 0.224 |
| 4-4570 | 4-5990 | 0.375 | 196.9 | -6.3 | 0.22 | 1.311 | 101.9 | 0.712 | 3.247 | 331.2 | 554.0 | 0.936 | 5.557 | 1.13 | 0.280 | 60.9 | 29.8 | 2.7 | 0.227 |
| 4-4570 | 4-6010 | 0.381 | 198.3 | -6.8 | 0.27 | 1.311 | 102.4 | 0.714 | 3.257 | 330.1 | 554.5 | 0.932 | 5.581 | 1.10 | 0.282 | 59.9 | 30.4 | 2.7 | 0.230 |
| 4-4570 | 4-6030 | 0.388 | 199.6 | -7.2 | 0.32 | 1.312 | 102.9 | 0.716 | 3.267 | 328.9 | 555.0 | 0.927 | 5.607 | 1.07 | 0.285 | 59.0 | 31.0 | 2.7 | 0.234 |
| 4-4570 | 4-6050 | 0.395 | 201.0 | -7.6 | 0.36 | 1.312 | 103.5 | 0.718 | 3.278 | 327.6 | 555.5 | 0.923 | 5.633 | 1.04 | 0.288 | 58.1 | 31.7 | 2.7 | 0.237 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4570 | 4-6070 | 0.403 | 202.4 | -8.0 | 0.40 | 1.313 | 104.0 | 0.721 | 3.288 | 326.4 | 555.9 | 0.918 | 5.659 | 1.01 | 0.291 | 57.2 | 32.5 | 2.7 | 0.241 |
| 4-4570 | 4-6090 | 0.410 | 203.7 | -8.4 | 0.44 | 1.313 | 104.5 | 0.723 | 3.300 | 325.2 | 556.4 | 0.913 | 5.687 | 0.99 | 0.293 | 56.3 | 33.3 | 2.7 | 0.245 |
| 4-4570 | 4-6110 | 0.418 | 205.1 | -8.9 | 0.47 | 1.313 | 105.1 | 0.726 | 3.311 | 323.9 | 556.8 | 0.907 | 5.715 | 0.96 | 0.296 | 55.5 | 34.1 | 2.7 | 0.248 |
| 4-4570 | 4-6130 | 0.427 | 206.4 | -9.3 | 0.51 | 1.314 | 105.7 | 0.729 | 3.322 | 322.6 | 557.2 | 0.901 | 5.743 | 0.94 | 0.299 | 54.6 | 35.0 | 2.7 | 0.252 |
| 4-4570 | 4-6150 | 0.435 | 207.7 | -9.7 | 0.54 | 1.314 | 106.3 | 0.732 | 3.334 | 321.3 | 557.6 | 0.895 | 5.772 | 0.92 | 0.301 | 53.8 | 35.9 | 2.7 | 0.256 |
| 4-4570 | 4-6170 | 0.444 | 209.0 | -10.1 | 0.58 | 1.315 | 106.8 | 0.734 | 3.346 | 319.9 | 558.0 | 0.889 | 5.802 | 0.91 | 0.304 | 53.1 | 36.9 | 2.7 | 0.260 |
| 4-4580 | 4-4880 | 0.636 | 188.4 | 0.7 | 1.58 | 1.619 | 99.2 | 1.571 | -1.689 | 345.0 | 470.3 | 0.965 | --- | -0.70 | 0.979 | 162.8 | 55.2 | 2.3 | 0.947 |
| 4-4580 | 4-4900 | 0.585 | 186.6 | 1.8 | 1.60 | 1.575 | 98.0 | 1.435 | -2.227 | 346.4 | 473.3 | 0.969 | --- | -0.71 | 0.903 | 161.8 | 55.6 | 2.3 | 0.872 |
| 4-4580 | 4-4920 | 0.542 | 184.8 | 2.9 | 1.63 | 1.537 | 96.9 | 1.323 | -3.011 | 347.9 | 476.3 | 0.973 | --- | -0.73 | 0.836 | 160.7 | 55.9 | 2.3 | 0.805 |
| 4-4580 | 4-4940 | 0.505 | 182.9 | 4.1 | 1.65 | 1.505 | 95.9 | 1.230 | -4.241 | 349.3 | 479.2 | 0.976 | --- | -0.74 | 0.776 | 159.6 | 56.2 | 2.3 | 0.746 |
| 4-4580 | 4-4960 | 0.475 | 180.9 | 5.3 | 1.68 | 1.478 | 94.9 | 1.152 | -6.424 | 350.8 | 482.2 | 0.978 | --- | -0.76 | 0.723 | 158.4 | 56.4 | 2.3 | 0.693 |
| 4-4580 | 4-4980 | 0.449 | 179.0 | 6.5 | 1.71 | 1.456 | 94.1 | 1.087 | 11.297 | 352.1 | 485.1 | 0.980 | --- | -0.78 | 0.675 | 157.1 | 56.6 | 2.2 | 0.646 |
| 4-4580 | 4-5000 | 0.427 | 177.1 | 7.6 | 1.73 | 1.436 | 93.3 | 1.031 | 31.381 | 353.5 | 487.9 | 0.982 | --- | -0.80 | 0.632 | 155.8 | 56.8 | 2.2 | 0.603 |
| 4-4580 | 4-5020 | 0.408 | 175.2 | 8.8 | 1.76 | 1.419 | 92.6 | 0.984 | 61.906 | 354.7 | 490.7 | 0.983 | --- | -0.82 | 0.593 | 154.3 | 56.9 | 2.2 | 0.564 |
| 4-4580 | 4-5040 | 0.393 | 173.4 | 9.9 | 1.80 | 1.405 | 92.0 | 0.944 | 17.493 | 355.9 | 493.4 | 0.984 | --- | -0.85 | 0.557 | 152.9 | 57.0 | 2.2 | 0.529 |
| 4-4580 | 4-5060 | 0.380 | 171.7 | 10.9 | 1.83 | 1.392 | 91.4 | 0.909 | 10.835 | 357.1 | 496.0 | 0.985 | --- | -0.87 | 0.525 | 151.3 | 57.0 | 2.1 | 0.496 |
| 4-4580 | 4-5080 | 0.368 | 170.1 | 11.9 | 1.87 | 1.381 | 90.9 | 0.879 | 8.161 | 358.1 | 498.6 | 0.985 | --- | -0.90 | 0.495 | 149.7 | 57.0 | 2.1 | 0.467 |
| 4-4580 | 4-5100 | 0.359 | 168.6 | 12.8 | 1.91 | 1.372 | 90.4 | 0.854 | 6.729 | 359.0 | 501.1 | 0.985 | --- | -0.93 | 0.468 | 147.9 | 56.9 | 2.0 | 0.440 |
| 4-4580 | 4-5120 | 0.351 | 167.3 | 13.7 | 1.95 | 1.363 | 90.0 | 0.831 | 5.840 | 359.9 | 503.4 | 0.985 | --- | -0.96 | 0.444 | 146.1 | 56.7 | 2.0 | 0.415 |
| 4-4580 | 4-5140 | 0.344 | 166.1 | 14.5 | 1.99 | 1.356 | 89.7 | 0.812 | 5.240 | 0.7 | 145.7 | --- | --- | -1.00 | 0.421 | 144.3 | 56.5 | 1.9 | 0.392 |
| 4-4580 | 4-5160 | 0.338 | 165.0 | 15.2 | 2.04 | 1.350 | 89.4 | 0.795 | 4.809 | 1.4 | 148.0 | --- | --- | -1.04 | 0.401 | 142.3 | 56.1 | 1.9 | 0.371 |
| 4-4580 | 4-5180 | 0.333 | 164.1 | 15.9 | 2.09 | 1.344 | 89.1 | 0.781 | 4.488 | 2.0 | 150.1 | --- | --- | -1.08 | 0.382 | 140.3 | 55.8 | 1.8 | 0.351 |
| 4-4580 | 4-5200 | 0.329 | 163.3 | 16.6 | 2.15 | 1.340 | 88.9 | 0.768 | 4.240 | 2.5 | 152.1 | --- | --- | -1.13 | 0.365 | 138.2 | 55.3 | 1.7 | 0.334 |
| 4-4580 | 4-5220 | 0.325 | 162.7 | 17.2 | 2.21 | 1.335 | 88.8 | 0.757 | 4.045 | 2.9 | 154.1 | --- | --- | -1.19 | 0.350 | 136.0 | 54.8 | 1.6 | 0.317 |
| 4-4580 | 4-5240 | 0.322 | 162.2 | 17.8 | 2.28 | 1.332 | 88.6 | 0.747 | 3.889 | 3.3 | 156.0 | --- | --- | -1.25 | 0.335 | 133.7 | 54.1 | 1.5 | 0.302 |
| 4-4580 | 4-5260 | 0.319 | 161.9 | 18.3 | 2.36 | 1.328 | 88.5 | 0.738 | 3.761 | 3.5 | 157.8 | --- | --- | -1.32 | 0.323 | 131.4 | 53.4 | 1.4 | 0.288 |
| 4-4580 | 4-5280 | 0.317 | 161.7 | 18.9 | 2.44 | 1.325 | 88.4 | 0.731 | 3.657 | 3.7 | 159.5 | --- | --- | -1.39 | 0.311 | 129.0 | 52.7 | 1.2 | 0.276 |
| 4-4580 | 4-5300 | 0.315 | 161.6 | 19.4 | 2.54 | 1.323 | 88.4 | 0.724 | 3.569 | 3.9 | 161.2 | --- | --- | -1.48 | 0.301 | 126.6 | 51.8 | 1.1 | 0.264 |
| 4-4580 | 4-5320 | 0.313 | 161.7 | 19.9 | 2.65 | 1.321 | 88.4 | 0.719 | 3.497 | 3.9 | 162.8 | --- | --- | -1.59 | 0.291 | 124.1 | 50.9 | 0.9 | 0.253 |
| 4-4580 | 4-5340 | 0.312 | 162.0 | 20.4 | 2.78 | 1.319 | 88.4 | 0.713 | 3.435 | 3.9 | 164.3 | --- | --- | -1.71 | 0.283 | 121.6 | 49.9 | 0.7 | 0.244 |
| 4-4580 | 4-5360 | 0.311 | 162.3 | 21.0 | 2.93 | 1.317 | 88.4 | 0.709 | 3.384 | 3.8 | 165.8 | --- | --- | -1.85 | 0.276 | 119.1 | 48.8 | 0.4 | 0.235 |
| 4-4580 | 4-5380 | 0.310 | 162.9 | 21.7 | 3.11 | 1.316 | 88.5 | 0.705 | 3.340 | 3.7 | 167.2 | --- | --- | -2.01 | 0.269 | 116.5 | 47.7 | 0.1 | 0.227 |
| 4-4580 | 4-5400 | 0.309 | 163.6 | 22.4 | 3.32 | 1.314 | 88.5 | 0.702 | 3.303 | 3.5 | 168.6 | --- | --- | -2.22 | 0.264 | 114.0 | 46.5 | -0.2 | 0.221 |
| 4-4580 | 4-5420 | 0.309 | 164.5 | 23.3 | 3.58 | 1.313 | 88.6 | 0.699 | 3.272 | 3.3 | 169.9 | --- | --- | -2.47 | 0.259 | 111.4 | 45.3 | -0.6 | 0.214 |
| 4-4580 | 4-5440 | 0.309 | 165.6 | 24.4 | 3.91 | 1.312 | 88.8 | 0.697 | 3.246 | 3.0 | 171.2 | --- | --- | -2.79 | 0.255 | 108.9 | 44.1 | -1.1 | 0.209 |
| 4-4580 | 4-5460 | 0.311 | 166.9 | 25.9 | 4.34 | 1.311 | 88.9 | 0.695 | 3.224 | 2.7 | 172.4 | --- | --- | -3.21 | 0.251 | 106.4 | 42.9 | -1.7 | 0.205 |
| 4-4580 | 4-5480 | 0.313 | 168.7 | 27.8 | 4.92 | 1.311 | 89.1 | 0.693 | 3.205 | 2.3 | 173.6 | --- | --- | -3.79 | 0.249 | 103.9 | 41.6 | -2.5 | 0.201 |
| 4-4580 | 4-5500 | 0.318 | 171.0 | 30.6 | 5.76 | 1.310 | 89.2 | 0.691 | 3.190 | 1.9 | 174.8 | --- | --- | -4.62 | 0.246 | 101.5 | 40.4 | -3.7 | 0.198 |
| 4-4580 | 4-5520 | 0.328 | 174.4 | 34.8 | 7.07 | 1.310 | 89.4 | 0.690 | 3.178 | 1.4 | 175.9 | --- | --- | -5.92 | 0.245 | 99.1 | 39.2 | -5.4 | 0.196 |
| 4-4580 | 4-5540 | 0.350 | 180.2 | 41.7 | 9.41 | 1.309 | 89.6 | 0.689 | 3.168 | 0.9 | 176.9 | --- | --- | -8.26 | 0.244 | 96.7 | 38.0 | -8.3 | 0.197 |
| 4-4580 | 4-5560 | 0.418 | 194.1 | 54.0 | 14.79 | 1.309 | 89.8 | 0.688 | 3.160 | 0.4 | 178.0 | --- | --- | -13.62 | 0.243 | 94.5 | 36.9 | -14.4 | 0.204 |
| 4-4580 | 4-5580 | 0.799 | 266.5 | 67.4 | 37.63 | 1.309 | 90.0 | 0.688 | 3.154 | 359.9 | 539.0 | 0.985 | --- | -36.46 | 0.243 | 92.3 | 35.3 | -29.8 | 0.276 |
| 4-4580 | 4-5600 | 0.732 | 102.8 | -64.6 | -33.85 | 1.309 | 90.4 | 0.687 | 3.150 | 358.9 | 539.9 | 0.985 | --- | 35.02 | 0.243 | 90.2 | 31.7 | 32.7 | 0.270 |
| 4-4580 | 4-5620 | 0.382 | 146.4 | -36.5 | -12.17 | 1.309 | 90.7 | 0.687 | 3.147 | 358.4 | 540.9 | 0.985 | 5.309 | 13.35 | 0.243 | 88.1 | 32.6 | 17.9 | 0.201 |
| 4-4580 | 4-5640 | 0.325 | 156.1 | -21.5 | -6.93 | 1.309 | 90.9 | 0.687 | 3.146 | 357.7 | 541.8 | 0.985 | 5.307 | 8.13 | 0.244 | 86.1 | 32.0 | 11.9 | 0.192 |
| 4-4580 | 4-5660 | 0.308 | 161.1 | -13.7 | -4.63 | 1.309 | 91.2 | 0.687 | 3.146 | 357.0 | 542.7 | 0.985 | 5.307 | 5.83 | 0.245 | 84.2 | 31.3 | 9.1 | 0.190 |
| 4-4580 | 4-5680 | 0.302 | 164.5 | -9.2 | -3.33 | 1.309 | 91.5 | 0.687 | 3.147 | 356.3 | 543.5 | 0.984 | 5.310 | 4.54 | 0.246 | 82.4 | 30.7 | 7.4 | 0.189 |
| 4-4580 | 4-5700 | 0.299 | 167.2 | -6.5 | -2.50 | 1.309 | 91.8 | 0.688 | 3.149 | 355.5 | 544.3 | 0.984 | 5.314 | 3.72 | 0.247 | 80.6 | 30.1 | 6.3 | 0.190 |
| 4-4580 | 4-5720 | 0.298 | 169.5 | -4.7 | -1.93 | 1.309 | 92.2 | 0.688 | 3.152 | 354.7 | 545.1 | 0.984 | 5.321 | 3.15 | 0.249 | 78.9 | 29.5 | 5.6 | 0.191 |
| 4-4580 | 4-5740 | 0.298 | 171.6 | -3.5 | -1.50 | 1.309 | 92.5 | 0.689 | 3.156 | 353.9 | 545.9 | 0.983 | 5.329 | 2.74 | 0.251 | 77.3 | 29.1 | 5.0 | 0.192 |
| 4-4580 | 4-5760 | 0.299 | 173.6 | -2.8 | -1.17 | 1.309 | 92.9 | 0.689 | 3.161 | 353.0 | 546.7 | 0.982 | 5.340 | 2.42 | 0.253 | 75.8 | 28.7 | 4.5 | 0.193 |
| 4-4580 | 4-5780 | 0.300 | 175.5 | -2.4 | -0.91 | 1.309 | 93.2 | 0.690 | 3.166 | 352.1 | 547.4 | 0.981 | 5.351 | 2.17 | 0.255 | 74.3 | 28.4 | 4.2 | 0.195 |
| 4-4580 | 4-5800 | 0.302 | 177.3 | -2.2 | -0.70 | 1.310 | 93.6 | 0.691 | 3.172 | 351.2 | 548.1 | 0.980 | 5.364 | 1.96 | 0.257 | 72.8 | 28.2 | 3.9 | 0.197 |
| 4-4580 | 4-5820 | 0.304 | 179.1 | -2.1 | -0.53 | 1.310 | 94.0 | 0.692 | 3.179 | 350.2 | 548.8 | 0.979 | 5.378 | 1.79 | 0.259 | 71.5 | 28.1 | 3.7 | 0.199 |
| 4-4580 | 4-5840 | 0.306 | 180.9 | -2.1 | -0.38 | 1.310 | 94.4 | 0.693 | 3.186 | 349.3 | 549.5 | 0.978 | 5.394 | 1.65 | 0.262 | 70.1 | 28.1 | 3.5 | 0.201 |
| 4-4580 | 4-5860 | 0.308 | 182.6 | -2.3 | -0.25 | 1.310 | 94.8 | 0.694 | 3.194 | 348.3 | 550.1 | 0.977 | 5.410 | 1.54 | 0.264 | 68.9 | 28.1 | 3.3 | 0.204 |
| 4-4580 | 4-5880 | 0.311 | 184.4 | -2.5 | -0.14 | 1.311 | 95.2 | 0.695 | 3.202 | 347.3 | 550.8 | 0.975 | 5.428 | 1.43 | 0.266 | 67.7 | 28.3 | 3.2 | 0.207 |
| 4-4580 | 4-5900 | 0.314 | 186.1 | -2.8 | -0.04 | 1.311 | 95.6 | 0.697 | 3.210 | 346.3 | 551.4 | 0.974 | 5.446 | 1.34 | 0.269 | 66.5 | 28.5 | 3.0 | 0.209 |
| 4-4580 | 4-5920 | 0.317 | 187.9 | -3.2 | 0.04 | 1.311 | 96.1 | 0.698 | 3.219 | 345.2 | 552.0 | 0.972 | 5.466 | 1.27 | 0.272 | 65.4 | 28.7 | 3.0 | 0.212 |
| 4-4580 | 4-5940 | 0.321 | 189.6 | -3.6 | 0.12 | 1.312 | 96.5 | 0.700 | 3.228 | 344.1 | 552.6 | 0.970 | 5.486 | 1.20 | 0.274 | 64.3 | 29.1 | 2.9 | 0.215 |
| 4-4580 | 4-5960 | 0.325 | 191.3 | -4.0 | 0.19 | 1.312 | 97.0 | 0.701 | 3.238 | 343.0 | 553.2 | 0.968 | 5.508 | 1.14 | 0.277 | 63.3 | 29.5 | 2.8 | 0.218 |
| 4-4580 | 4-5980 | 0.329 | 193.0 | -4.5 | 0.25 | 1.312 | 97.5 | 0.703 | 3.248 | 341.9 | 553.7 | 0.965 | 5.530 | 1.08 | 0.279 | 62.3 | 29.9 | 2.7 | 0.221 |
| 4-4580 | 4-6000 | 0.334 | 194.6 | -4.9 | 0.31 | 1.313 | 97.9 | 0.705 | 3.258 | 340.8 | 554.2 | 0.962 | 5.553 | 1.04 | 0.282 | 61.3 | 30.5 | 2.7 | 0.224 |
| 4-4580 | 4-6020 | 0.339 | 196.3 | -5.4 | 0.36 | 1.313 | 98.4 | 0.706 | 3.268 | 339.6 | 554.8 | 0.960 | 5.576 | 0.99 | 0.285 | 60.4 | 31.1 | 2.7 | 0.227 |
| 4-4580 | 4-6040 | 0.344 | 198.0 | -5.9 | 0.41 | 1.313 | 98.9 | 0.708 | 3.279 | 338.4 | 555.3 | 0.957 | 5.601 | 0.95 | 0.288 | 59.5 | 31.7 | 2.6 | 0.231 |
| 4-4580 | 4-6060 | 0.350 | 199.6 | -6.5 | 0.46 | 1.314 | 99.4 | 0.710 | 3.290 | 337.2 | 555.7 | 0.953 | 5.626 | 0.92 | 0.290 | 58.7 | 32.4 | 2.6 | 0.234 |
| 4-4580 | 4-6080 | 0.355 | 201.2 | -7.0 | 0.50 | 1.314 | 100.0 | 0.712 | 3.301 | 336.0 | 556.2 | 0.950 | 5.651 | 0.88 | 0.293 | 57.8 | 33.1 | 2.6 | 0.237 |
| 4-4580 | 4-6100 | 0.362 | 202.9 | -7.5 | 0.54 | 1.315 | 100.5 | 0.714 | 3.312 | 334.7 | 556.7 | 0.946 | 5.678 | 0.86 | 0.296 | 57.0 | 33.9 | 2.6 | 0.241 |
| 4-4580 | 4-6120 | 0.368 | 204.4 | -8.0 | 0.57 | 1.315 | 101.0 | 0.717 | 3.323 | 333.5 | 557.1 | 0.942 | 5.705 | 0.83 | 0.298 | 56.2 | 34.8 | 2.6 | 0.244 |
| 4-4580 | 4-6140 | 0.375 | 206.0 | -8.5 | 0.61 | 1.315 | 101.6 | 0.719 | 3.335 | 332.2 | 557.5 | 0.938 | 5.732 | 0.80 | 0.301 | 55.4 | 35.6 | 2.6 | 0.248 |
| 4-4580 | 4-6160 | 0.382 | 207.6 | -9.0 | 0.64 | 1.316 | 102.1 | 0.721 | 3.347 | 330.9 | 558.0 | 0.933 | 5.760 | 0.78 | 0.304 | 54.7 | 36.6 | 2.6 | 0.251 |
| 4-4580 | 4-6180 | 0.390 | 209.1 | -9.6 | 0.67 | 1.316 | 102.7 | 0.724 | 3.359 | 329.6 | 558.3 | 0.928 | 5.789 | 0.76 | 0.306 | 54.0 | 37.5 | 2.6 | 0.255 |
| 4-4590 | 4-4890 | 0.596 | 183.8 | 2.5 | 1.43 | 1.607 | 93.2 | 1.541 | -1.816 | 354.7 | 470.6 | 0.982 | --- | -0.40 | 0.958 | 162.4 | 55.8 | 2.4 | 0.924 |
| 4-4590 | 4-4910 | 0.551 | 181.6 | 3.8 | 1.44 | 1.564 | 92.2 | 1.407 | -2.416 | 356.3 | 473.7 | 0.983 | --- | -0.40 | 0.884 | 161.4 | 56.1 | 2.4 | 0.851 |
| 4-4590 | 4-4930 | 0.513 | 179.2 | 5.0 | 1.45 | 1.528 | 91.2 | 1.297 | -3.312 | 357.9 | 476.8 | 0.984 | --- | -0.41 | 0.818 | 160.3 | 56.4 | 2.4 | 0.786 |
| 4-4590 | 4-4950 | 0.482 | 176.9 | 6.3 | 1.47 | 1.497 | 90.3 | 1.206 | -4.768 | 359.4 | 479.9 | 0.984 | --- | -0.41 | 0.759 | 159.1 | 56.6 | 2.4 | 0.729 |
| 4-4590 | 4-4970 | 0.457 | 174.5 | 7.6 | 1.48 | 1.472 | 89.5 | 1.131 | -7.520 | 1.0 | 123.0 | --- | --- | -0.42 | 0.707 | 157.9 | 56.8 | 2.4 | 0.677 |
| 4-4590 | 4-4990 | 0.436 | 172.2 | 8.8 | 1.49 | 1.450 | 88.7 | 1.068 | 14.567 | 2.4 | 125.9 | --- | --- | -0.43 | 0.660 | 156.6 | 57.0 | 2.4 | 0.631 |
| 4-4590 | 4-5010 | 0.418 | 170.0 | 9.9 | 1.51 | 1.431 | 88.1 | 1.014 | 69.516 | 3.8 | 128.9 | --- | --- | -0.43 | 0.618 | 155.3 | 57.1 | 2.4 | 0.589 |
| 4-4590 | 4-5030 | 0.404 | 167.9 | 11.0 | 1.52 | 1.415 | 87.5 | 0.969 | 31.626 | 5.2 | 131.7 | --- | --- | -0.44 | 0.580 | 153.8 | 57.2 | 2.4 | 0.551 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4590 | 4-5050 | 0.392 | 165.9 | 12.0 | 1.53 | 1.401 | 86.9 | 0.930 | 14.108 | 6.4 | 134.5 | --- | --- | -0.45 | 0.545 | 152.3 | 57.2 | 2.4 | 0.517 |
| 4-4590 | 4-5070 | 0.382 | 164.0 | 12.9 | 1.55 | 1.389 | 86.4 | 0.898 | 9.568 | 7.6 | 137.1 | --- | --- | -0.46 | 0.513 | 150.7 | 57.1 | 2.3 | 0.485 |
| 4-4590 | 4-5090 | 0.374 | 162.3 | 13.7 | 1.57 | 1.378 | 86.0 | 0.869 | 7.494 | 8.6 | 139.7 | --- | --- | -0.47 | 0.484 | 149.1 | 57.0 | 2.3 | 0.456 |
| 4-4590 | 4-5110 | 0.367 | 160.7 | 14.5 | 1.58 | 1.369 | 85.6 | 0.845 | 6.313 | 9.6 | 142.2 | --- | --- | -0.48 | 0.458 | 147.3 | 56.9 | 2.3 | 0.430 |
| 4-4590 | 4-5130 | 0.361 | 159.3 | 15.2 | 1.60 | 1.361 | 85.3 | 0.824 | 5.555 | 10.5 | 144.6 | --- | --- | -0.50 | 0.434 | 145.5 | 56.6 | 2.3 | 0.406 |
| 4-4590 | 4-5150 | 0.357 | 158.1 | 15.8 | 1.62 | 1.354 | 85.0 | 0.806 | 5.032 | 11.2 | 146.9 | --- | --- | -0.51 | 0.412 | 143.6 | 56.3 | 2.2 | 0.383 |
| 4-4590 | 4-5170 | 0.352 | 157.0 | 16.3 | 1.64 | 1.348 | 84.7 | 0.790 | 4.650 | 11.9 | 149.1 | --- | --- | -0.52 | 0.392 | 141.6 | 55.9 | 2.2 | 0.363 |
| 4-4590 | 4-5190 | 0.349 | 156.1 | 16.8 | 1.66 | 1.343 | 84.5 | 0.777 | 4.362 | 12.5 | 151.2 | --- | --- | -0.54 | 0.374 | 139.5 | 55.5 | 2.1 | 0.344 |
| 4-4590 | 4-5210 | 0.346 | 155.4 | 17.2 | 1.68 | 1.338 | 84.4 | 0.765 | 4.139 | 13.0 | 153.2 | --- | --- | -0.56 | 0.357 | 137.4 | 55.0 | 2.1 | 0.327 |
| 4-4590 | 4-5230 | 0.343 | 154.7 | 17.6 | 1.71 | 1.334 | 84.3 | 0.754 | 3.961 | 13.4 | 155.2 | --- | --- | -0.57 | 0.342 | 135.1 | 54.4 | 2.0 | 0.311 |
| 4-4590 | 4-5250 | 0.340 | 154.2 | 17.9 | 1.73 | 1.331 | 84.2 | 0.745 | 3.819 | 13.7 | 157.0 | --- | --- | -0.59 | 0.329 | 132.9 | 53.7 | 2.0 | 0.297 |
| 4-4590 | 4-5270 | 0.338 | 153.9 | 18.2 | 1.76 | 1.328 | 84.1 | 0.737 | 3.702 | 13.9 | 158.8 | --- | --- | -0.62 | 0.316 | 130.5 | 52.9 | 1.9 | 0.283 |
| 4-4590 | 4-5290 | 0.335 | 153.7 | 18.4 | 1.79 | 1.325 | 84.1 | 0.731 | 3.606 | 14.1 | 160.5 | --- | --- | -0.64 | 0.305 | 128.1 | 52.1 | 1.9 | 0.271 |
| 4-4590 | 4-5310 | 0.333 | 153.6 | 18.6 | 1.82 | 1.322 | 84.0 | 0.724 | 3.525 | 14.2 | 162.1 | --- | --- | -0.67 | 0.295 | 125.6 | 51.2 | 1.8 | 0.260 |
| 4-4590 | 4-5330 | 0.331 | 153.6 | 18.8 | 1.86 | 1.320 | 84.1 | 0.719 | 3.459 | 14.2 | 163.7 | --- | --- | -0.70 | 0.286 | 123.1 | 50.2 | 1.7 | 0.250 |
| 4-4590 | 4-5350 | 0.329 | 153.7 | 19.0 | 1.90 | 1.319 | 84.1 | 0.714 | 3.402 | 14.2 | 165.2 | --- | --- | -0.73 | 0.278 | 120.5 | 49.2 | 1.6 | 0.241 |
| 4-4590 | 4-5370 | 0.328 | 153.9 | 19.1 | 1.94 | 1.317 | 84.2 | 0.710 | 3.355 | 14.0 | 166.6 | --- | --- | -0.77 | 0.271 | 118.0 | 48.1 | 1.5 | 0.232 |
| 4-4590 | 4-5390 | 0.326 | 154.3 | 19.3 | 1.99 | 1.316 | 84.3 | 0.707 | 3.315 | 13.9 | 168.0 | --- | --- | -0.81 | 0.265 | 115.4 | 47.0 | 1.4 | 0.225 |
| 4-4590 | 4-5410 | 0.324 | 154.7 | 19.4 | 2.04 | 1.314 | 84.4 | 0.704 | 3.281 | 13.7 | 169.4 | --- | --- | -0.86 | 0.260 | 112.8 | 45.8 | 1.2 | 0.218 |
| 4-4590 | 4-5430 | 0.322 | 155.2 | 19.5 | 2.10 | 1.313 | 84.5 | 0.701 | 3.253 | 13.4 | 170.6 | --- | --- | -0.92 | 0.256 | 110.3 | 44.6 | 1.1 | 0.212 |
| 4-4590 | 4-5450 | 0.321 | 155.8 | 19.6 | 2.17 | 1.313 | 84.6 | 0.698 | 3.229 | 13.1 | 171.9 | --- | --- | -0.98 | 0.252 | 107.7 | 43.3 | 1.0 | 0.207 |
| 4-4590 | 4-5470 | 0.319 | 156.6 | 19.7 | 2.25 | 1.312 | 84.8 | 0.696 | 3.209 | 12.7 | 173.1 | --- | --- | -1.06 | 0.249 | 105.2 | 42.1 | 0.8 | 0.203 |
| 4-4590 | 4-5490 | 0.317 | 157.4 | 19.9 | 2.35 | 1.311 | 85.0 | 0.695 | 3.192 | 12.3 | 174.2 | --- | --- | -1.15 | 0.246 | 102.8 | 40.8 | 0.6 | 0.199 |
| 4-4590 | 4-5510 | 0.316 | 158.3 | 20.1 | 2.46 | 1.311 | 85.2 | 0.693 | 3.179 | 11.8 | 175.3 | --- | --- | -1.25 | 0.245 | 100.3 | 39.6 | 0.4 | 0.196 |
| 4-4590 | 4-5530 | 0.315 | 159.4 | 20.4 | 2.59 | 1.310 | 85.4 | 0.692 | 3.168 | 11.3 | 176.4 | --- | --- | -1.38 | 0.243 | 98.0 | 38.4 | 0.2 | 0.193 |
| 4-4590 | 4-5550 | 0.314 | 160.5 | 20.7 | 2.76 | 1.310 | 85.6 | 0.691 | 3.160 | 10.8 | 177.4 | --- | --- | -1.54 | 0.242 | 95.7 | 37.3 | -0.1 | 0.191 |
| 4-4590 | 4-5570 | 0.313 | 161.8 | 21.2 | 2.97 | 1.310 | 85.8 | 0.690 | 3.153 | 10.2 | 178.4 | --- | --- | -1.75 | 0.242 | 93.5 | 36.1 | -0.4 | 0.190 |
| 4-4590 | 4-5590 | 0.312 | 163.3 | 21.9 | 3.24 | 1.310 | 86.1 | 0.689 | 3.148 | 9.6 | 179.4 | --- | --- | -2.02 | 0.242 | 91.3 | 35.1 | -0.8 | 0.189 |
| 4-4590 | 4-5610 | 0.312 | 165.1 | 23.0 | 3.62 | 1.309 | 86.4 | 0.689 | 3.145 | 8.9 | 180.4 | --- | 5.311 | -2.39 | 0.242 | 89.2 | 34.1 | -1.4 | 0.188 |
| 4-4590 | 4-5630 | 0.314 | 167.2 | 24.7 | 4.17 | 1.309 | 86.6 | 0.688 | 3.144 | 8.2 | 181.3 | --- | 5.308 | -2.93 | 0.243 | 87.2 | 33.2 | -2.1 | 0.188 |
| 4-4590 | 4-5650 | 0.318 | 169.9 | 27.5 | 5.04 | 1.309 | 86.9 | 0.688 | 3.144 | 7.5 | 182.2 | --- | 5.306 | -3.80 | 0.244 | 85.3 | 32.4 | -3.3 | 0.188 |
| 4-4590 | 4-5670 | 0.328 | 174.2 | 32.7 | 6.65 | 1.309 | 87.2 | 0.688 | 3.144 | 6.8 | 183.0 | --- | 5.308 | -5.41 | 0.245 | 83.4 | 31.8 | -5.3 | 0.190 |
| 4-4590 | 4-5690 | 0.367 | 183.4 | 44.3 | 10.64 | 1.309 | 87.5 | 0.688 | 3.146 | 6.0 | 183.8 | --- | 5.311 | -9.39 | 0.246 | 81.6 | 31.4 | -10.1 | 0.196 |
| 4-4590 | 4-5710 | 0.748 | 257.3 | 70.8 | 34.66 | 1.310 | 87.8 | 0.688 | 3.149 | 5.3 | 184.7 | --- | 5.316 | -33.41 | 0.248 | 79.9 | 32.9 | -28.7 | 0.266 |
| 4-4590 | 4-5730 | 0.452 | 136.9 | -45.8 | -17.01 | 1.310 | 88.2 | 0.688 | 3.153 | 4.3 | 185.4 | --- | 5.323 | 18.27 | 0.250 | 78.3 | 29.2 | 22.2 | 0.217 |
| 4-4590 | 4-5750 | 0.321 | 157.3 | -19.0 | -6.25 | 1.310 | 88.6 | 0.689 | 3.158 | 3.5 | 186.2 | --- | 5.332 | 7.51 | 0.252 | 76.7 | 28.9 | 10.9 | 0.196 |
| 4-4590 | 4-5770 | 0.303 | 163.5 | -9.2 | -3.44 | 1.310 | 88.9 | 0.689 | 3.163 | 2.6 | 187.0 | --- | 5.343 | 4.71 | 0.254 | 75.2 | 28.7 | 7.4 | 0.195 |
| 4-4590 | 4-5790 | 0.298 | 167.2 | -4.8 | -2.15 | 1.310 | 89.3 | 0.690 | 3.169 | 1.7 | 187.7 | --- | 5.354 | 3.43 | 0.256 | 73.8 | 28.5 | 5.8 | 0.196 |
| 4-4590 | 4-5810 | 0.296 | 170.0 | -2.5 | -1.41 | 1.311 | 89.7 | 0.690 | 3.176 | 0.8 | 188.4 | --- | 5.367 | 2.69 | 0.258 | 72.4 | 28.4 | 4.8 | 0.198 |
| 4-4590 | 4-5830 | 0.295 | 172.4 | -1.2 | -0.93 | 1.311 | 90.1 | 0.691 | 3.183 | 359.8 | 549.1 | 0.984 | 5.382 | 2.22 | 0.260 | 71.1 | 28.3 | 4.2 | 0.200 |
| 4-4590 | 4-5850 | 0.295 | 174.6 | -0.6 | -0.60 | 1.311 | 90.5 | 0.692 | 3.191 | 358.9 | 549.7 | 0.984 | 5.397 | 1.89 | 0.263 | 69.8 | 28.4 | 3.8 | 0.202 |
| 4-4590 | 4-5870 | 0.296 | 176.7 | -0.3 | -0.35 | 1.311 | 90.9 | 0.692 | 3.199 | 357.9 | 550.4 | 0.984 | 5.414 | 1.64 | 0.265 | 68.6 | 28.5 | 3.5 | 0.204 |
| 4-4590 | 4-5890 | 0.296 | 178.8 | -0.2 | -0.15 | 1.312 | 91.3 | 0.693 | 3.207 | 356.9 | 551.0 | 0.984 | 5.431 | 1.45 | 0.268 | 67.5 | 28.6 | 3.2 | 0.206 |
| 4-4590 | 4-5910 | 0.297 | 180.8 | -0.3 | 0.00 | 1.312 | 91.7 | 0.694 | 3.216 | 355.8 | 551.6 | 0.983 | 5.449 | 1.30 | 0.271 | 66.4 | 28.9 | 3.0 | 0.209 |
| 4-4590 | 4-5930 | 0.299 | 182.7 | -0.6 | 0.13 | 1.312 | 92.1 | 0.695 | 3.226 | 354.8 | 552.2 | 0.982 | 5.469 | 1.18 | 0.273 | 65.3 | 29.2 | 2.9 | 0.212 |
| 4-4590 | 4-5950 | 0.300 | 184.7 | -0.9 | 0.23 | 1.313 | 92.6 | 0.697 | 3.235 | 353.7 | 552.8 | 0.982 | 5.489 | 1.08 | 0.276 | 64.3 | 29.5 | 2.8 | 0.214 |
| 4-4590 | 4-5970 | 0.302 | 186.6 | -1.4 | 0.32 | 1.313 | 93.1 | 0.698 | 3.245 | 352.6 | 553.4 | 0.981 | 5.510 | 1.00 | 0.279 | 63.3 | 30.0 | 2.7 | 0.217 |
| 4-4590 | 4-5990 | 0.305 | 188.6 | -1.8 | 0.40 | 1.313 | 93.5 | 0.699 | 3.255 | 351.5 | 553.9 | 0.980 | 5.531 | 0.93 | 0.281 | 62.4 | 30.5 | 2.6 | 0.220 |
| 4-4590 | 4-6010 | 0.307 | 190.5 | -2.4 | 0.46 | 1.314 | 94.0 | 0.700 | 3.266 | 350.3 | 554.5 | 0.978 | 5.554 | 0.87 | 0.284 | 61.5 | 31.0 | 2.6 | 0.223 |
| 4-4590 | 4-6030 | 0.310 | 192.4 | -2.9 | 0.52 | 1.314 | 94.5 | 0.702 | 3.277 | 349.2 | 555.0 | 0.977 | 5.577 | 0.82 | 0.287 | 60.6 | 31.6 | 2.5 | 0.226 |
| 4-4590 | 4-6050 | 0.313 | 194.3 | -3.5 | 0.57 | 1.315 | 95.0 | 0.703 | 3.288 | 348.0 | 555.5 | 0.975 | 5.600 | 0.77 | 0.289 | 59.7 | 32.3 | 2.5 | 0.229 |
| 4-4590 | 4-6070 | 0.317 | 196.2 | -4.1 | 0.62 | 1.315 | 95.5 | 0.705 | 3.299 | 346.8 | 556.0 | 0.973 | 5.624 | 0.73 | 0.292 | 58.9 | 33.0 | 2.5 | 0.232 |
| 4-4590 | 4-6090 | 0.321 | 198.1 | -4.8 | 0.66 | 1.315 | 96.0 | 0.707 | 3.310 | 345.6 | 556.5 | 0.971 | 5.649 | 0.69 | 0.295 | 58.1 | 33.7 | 2.4 | 0.235 |
| 4-4590 | 4-6110 | 0.325 | 200.0 | -5.4 | 0.70 | 1.316 | 96.5 | 0.708 | 3.322 | 344.3 | 556.9 | 0.969 | 5.675 | 0.66 | 0.298 | 57.4 | 34.5 | 2.4 | 0.238 |
| 4-4590 | 4-6130 | 0.330 | 201.9 | -6.0 | 0.74 | 1.316 | 97.0 | 0.710 | 3.334 | 343.1 | 557.4 | 0.966 | 5.701 | 0.63 | 0.300 | 56.6 | 35.4 | 2.4 | 0.242 |
| 4-4590 | 4-6150 | 0.335 | 203.7 | -6.7 | 0.77 | 1.317 | 97.6 | 0.712 | 3.346 | 341.8 | 557.8 | 0.964 | 5.728 | 0.60 | 0.303 | 55.9 | 36.3 | 2.4 | 0.245 |
| 4-4590 | 4-6170 | 0.340 | 205.6 | -7.3 | 0.80 | 1.317 | 98.1 | 0.714 | 3.358 | 340.5 | 558.3 | 0.961 | 5.755 | 0.58 | 0.306 | 55.2 | 37.2 | 2.4 | 0.248 |
| 4-4590 | 4-6190 | 0.346 | 207.4 | -8.0 | 0.82 | 1.317 | 98.7 | 0.716 | 3.370 | 339.2 | 558.7 | 0.957 | 5.782 | 0.56 | 0.308 | 54.5 | 38.2 | 2.5 | 0.252 |
| 4-4600 | 4-4880 | 0.629 | 180.2 | 3.7 | 1.33 | 1.643 | 87.9 | 1.654 | -1.501 | 3.4 | 108.4 | --- | --- | -0.13 | 1.016 | 163.1 | 55.9 | 2.5 | 0.982 |
| 4-4600 | 4-4900 | 0.582 | 177.6 | 5.0 | 1.34 | 1.593 | 86.9 | 1.495 | -1.980 | 5.1 | 111.6 | --- | --- | -0.13 | 0.934 | 162.1 | 56.2 | 2.5 | 0.901 |
| 4-4600 | 4-4920 | 0.543 | 175.0 | 6.3 | 1.34 | 1.552 | 86.1 | 1.367 | -2.669 | 6.8 | 114.9 | --- | --- | -0.13 | 0.861 | 161.1 | 56.4 | 2.5 | 0.830 |
| 4-4600 | 4-4940 | 0.512 | 172.3 | 7.6 | 1.34 | 1.517 | 85.2 | 1.262 | -3.729 | 8.5 | 118.1 | --- | --- | -0.14 | 0.797 | 160.0 | 56.6 | 2.5 | 0.766 |
| 4-4600 | 4-4960 | 0.488 | 169.7 | 8.9 | 1.35 | 1.488 | 84.5 | 1.176 | -5.545 | 10.2 | 121.3 | --- | --- | -0.14 | 0.740 | 158.8 | 56.8 | 2.5 | 0.710 |
| 4-4600 | 4-4980 | 0.467 | 167.2 | 10.1 | 1.35 | 1.463 | 83.8 | 1.104 | -9.322 | 11.9 | 124.4 | --- | --- | -0.14 | 0.689 | 157.6 | 57.0 | 2.5 | 0.660 |
| 4-4600 | 4-5000 | 0.451 | 164.7 | 11.2 | 1.36 | 1.442 | 83.2 | 1.045 | 21.729 | 13.4 | 127.5 | --- | --- | -0.14 | 0.643 | 156.3 | 57.0 | 2.5 | 0.615 |
| 4-4600 | 4-5020 | 0.438 | 162.5 | 12.2 | 1.36 | 1.424 | 82.6 | 0.995 | 79.523 | 14.9 | 130.5 | --- | --- | -0.14 | 0.602 | 154.9 | 57.1 | 2.5 | 0.574 |
| 4-4600 | 4-5040 | 0.427 | 160.4 | 13.1 | 1.36 | 1.409 | 82.1 | 0.952 | 20.247 | 16.2 | 133.4 | --- | --- | -0.14 | 0.564 | 153.4 | 57.1 | 2.5 | 0.538 |
| 4-4600 | 4-5060 | 0.419 | 158.5 | 13.9 | 1.37 | 1.395 | 81.6 | 0.917 | 11.529 | 17.5 | 136.2 | --- | --- | -0.15 | 0.530 | 151.9 | 57.0 | 2.5 | 0.504 |
| 4-4600 | 4-5080 | 0.412 | 156.8 | 14.6 | 1.37 | 1.384 | 81.2 | 0.886 | 8.423 | 18.7 | 138.9 | --- | --- | -0.15 | 0.499 | 150.3 | 56.9 | 2.5 | 0.473 |
| 4-4600 | 4-5100 | 0.406 | 155.2 | 15.3 | 1.38 | 1.374 | 80.9 | 0.860 | 6.840 | 19.7 | 141.4 | --- | --- | -0.15 | 0.471 | 148.6 | 56.7 | 2.5 | 0.445 |
| 4-4600 | 4-5120 | 0.401 | 153.8 | 15.8 | 1.38 | 1.365 | 80.6 | 0.838 | 5.886 | 20.7 | 143.9 | --- | --- | -0.15 | 0.445 | 146.8 | 56.5 | 2.5 | 0.420 |
| 4-4600 | 4-5140 | 0.397 | 152.6 | 16.3 | 1.39 | 1.358 | 80.3 | 0.819 | 5.253 | 21.5 | 146.3 | --- | --- | -0.16 | 0.422 | 144.9 | 56.2 | 2.5 | 0.396 |
| 4-4600 | 4-5160 | 0.393 | 151.6 | 16.7 | 1.39 | 1.351 | 80.1 | 0.802 | 4.804 | 22.3 | 148.5 | --- | --- | -0.16 | 0.401 | 143.0 | 55.8 | 2.4 | 0.375 |
| 4-4600 | 4-5180 | 0.390 | 150.7 | 17.1 | 1.40 | 1.345 | 79.9 | 0.788 | 4.473 | 22.9 | 150.7 | --- | --- | -0.16 | 0.381 | 140.9 | 55.3 | 2.4 | 0.355 |
| 4-4600 | 4-5200 | 0.387 | 149.9 | 17.4 | 1.40 | 1.340 | 79.8 | 0.775 | 4.220 | 23.4 | 152.8 | --- | --- | -0.17 | 0.364 | 138.8 | 54.8 | 2.4 | 0.337 |
| 4-4600 | 4-5220 | 0.385 | 149.3 | 17.6 | 1.41 | 1.336 | 79.7 | 0.765 | 4.021 | 23.9 | 154.7 | --- | --- | -0.17 | 0.347 | 136.6 | 54.2 | 2.4 | 0.320 |
| 4-4600 | 4-5240 | 0.382 | 148.8 | 17.8 | 1.42 | 1.332 | 79.6 | 0.755 | 3.863 | 24.2 | 156.6 | --- | --- | -0.17 | 0.333 | 134.3 | 53.6 | 2.3 | 0.305 |
| 4-4600 | 4-5260 | 0.380 | 148.4 | 18.0 | 1.42 | 1.329 | 79.6 | 0.747 | 3.735 | 24.5 | 158.4 | --- | --- | -0.18 | 0.320 | 132.0 | 52.8 | 2.3 | 0.291 |
| 4-4600 | 4-5280 | 0.377 | 148.2 | 18.1 | 1.43 | 1.326 | 79.5 | 0.740 | 3.630 | 24.7 | 160.1 | --- | --- | -0.18 | 0.308 | 129.5 | 52.0 | 2.3 | 0.278 |
| 4-4600 | 4-5300 | 0.375 | 148.0 | 18.2 | 1.44 | 1.323 | 79.5 | 0.733 | 3.543 | 24.8 | 161.8 | --- | --- | -0.19 | 0.297 | 127.1 | 51.1 | 2.2 | 0.267 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

BEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4600 | 4-5320 | 0.373 | 148.0 | 18.3 | 1.44 | 1.321 | 79.6 | 0.728 | 3.471 | 24.8 | 163.4 | --- | --- | -0.19 | 0.288 | 124.5 | 50.1 | 2.2 | 0.256 |
| 4-4600 | 4-5340 | 0.371 | 148.0 | 18.3 | 1.45 | 1.319 | 79.6 | 0.723 | 3.410 | 24.8 | 164.9 | --- | --- | -0.20 | 0.279 | 122.0 | 49.1 | 2.1 | 0.246 |
| 4-4600 | 4-5360 | 0.368 | 148.2 | 18.4 | 1.46 | 1.318 | 79.7 | 0.718 | 3.360 | 24.7 | 166.3 | --- | --- | -0.21 | 0.272 | 119.4 | 48.0 | 2.1 | 0.238 |
| 4-4600 | 4-5380 | 0.366 | 148.4 | 18.3 | 1.47 | 1.316 | 79.8 | 0.715 | 3.317 | 24.5 | 167.7 | --- | --- | -0.21 | 0.265 | 116.8 | 46.9 | 2.0 | 0.230 |
| 4-4600 | 4-5400 | 0.363 | 148.7 | 18.3 | 1.48 | 1.315 | 79.9 | 0.711 | 3.281 | 24.3 | 169.0 | --- | --- | -0.22 | 0.260 | 114.2 | 45.8 | 2.0 | 0.223 |
| 4-4600 | 4-5420 | 0.361 | 149.1 | 18.3 | 1.49 | 1.314 | 80.1 | 0.708 | 3.251 | 24.0 | 170.3 | --- | --- | -0.23 | 0.255 | 111.6 | 44.6 | 1.9 | 0.217 |
| 4-4600 | 4-5440 | 0.358 | 149.5 | 18.2 | 1.50 | 1.313 | 80.2 | 0.706 | 3.226 | 23.7 | 171.5 | --- | --- | -0.24 | 0.251 | 109.0 | 43.3 | 1.8 | 0.211 |
| 4-4600 | 4-5460 | 0.356 | 150.0 | 18.1 | 1.52 | 1.312 | 80.4 | 0.703 | 3.205 | 23.3 | 172.7 | --- | --- | -0.25 | 0.248 | 106.4 | 42.1 | 1.8 | 0.207 |
| 4-4600 | 4-5480 | 0.353 | 150.6 | 18.0 | 1.53 | 1.311 | 80.6 | 0.701 | 3.187 | 22.9 | 173.9 | --- | --- | -0.26 | 0.245 | 103.9 | 40.9 | 1.7 | 0.203 |
| 4-4600 | 4-5500 | 0.350 | 151.3 | 17.9 | 1.55 | 1.311 | 80.8 | 0.700 | 3.173 | 22.4 | 175.0 | --- | --- | -0.28 | 0.243 | 101.4 | 39.7 | 1.6 | 0.199 |
| 4-4600 | 4-5520 | 0.348 | 152.0 | 17.7 | 1.56 | 1.311 | 81.0 | 0.698 | 3.161 | 21.9 | 176.1 | --- | --- | -0.29 | 0.241 | 99.0 | 38.5 | 1.6 | 0.196 |
| 4-4600 | 4-5540 | 0.345 | 152.8 | 17.6 | 1.58 | 1.310 | 81.2 | 0.697 | 3.152 | 21.4 | 177.1 | --- | --- | -0.31 | 0.240 | 96.7 | 37.3 | 1.5 | 0.194 |
| 4-4600 | 4-5560 | 0.342 | 153.6 | 17.4 | 1.60 | 1.310 | 81.5 | 0.696 | 3.146 | 20.8 | 178.1 | --- | --- | -0.33 | 0.240 | 94.4 | 36.2 | 1.4 | 0.192 |
| 4-4600 | 4-5580 | 0.340 | 154.5 | 17.2 | 1.63 | 1.310 | 81.8 | 0.695 | 3.141 | 20.2 | 179.0 | --- | --- | -0.35 | 0.240 | 92.2 | 35.2 | 1.3 | 0.191 |
| 4-4600 | 4-5600 | 0.337 | 155.5 | 17.1 | 1.66 | 1.310 | 82.0 | 0.694 | 3.137 | 19.5 | 180.0 | --- | --- | -0.38 | 0.240 | 90.0 | 34.2 | 1.2 | 0.190 |
| 4-4600 | 4-5620 | 0.334 | 156.6 | 16.9 | 1.69 | 1.310 | 82.3 | 0.693 | 3.136 | 18.8 | 180.9 | --- | 5.309 | -0.41 | 0.241 | 88.0 | 33.3 | 1.2 | 0.189 |
| 4-4600 | 4-5640 | 0.331 | 157.7 | 16.7 | 1.73 | 1.310 | 82.6 | 0.693 | 3.135 | 18.1 | 181.8 | --- | 5.307 | -0.45 | 0.241 | 86.0 | 32.4 | 1.1 | 0.189 |
| 4-4600 | 4-5660 | 0.329 | 158.8 | 16.5 | 1.78 | 1.310 | 82.9 | 0.692 | 3.136 | 17.4 | 182.6 | --- | 5.307 | -0.50 | 0.243 | 84.1 | 31.7 | 1.0 | 0.189 |
| 4-4600 | 4-5680 | 0.326 | 160.1 | 16.4 | 1.85 | 1.310 | 83.2 | 0.692 | 3.138 | 16.6 | 183.5 | --- | 5.310 | -0.56 | 0.244 | 82.3 | 31.0 | 0.9 | 0.189 |
| 4-4600 | 4-5700 | 0.324 | 161.4 | 16.2 | 1.93 | 1.310 | 83.6 | 0.692 | 3.141 | 15.8 | 184.3 | --- | 5.314 | -0.64 | 0.246 | 80.6 | 30.4 | 0.7 | 0.190 |
| 4-4600 | 4-5720 | 0.322 | 162.9 | 16.2 | 2.03 | 1.310 | 83.9 | 0.692 | 3.145 | 15.0 | 185.1 | --- | 5.320 | -0.74 | 0.247 | 78.9 | 29.9 | 0.6 | 0.191 |
| 4-4600 | 4-5740 | 0.319 | 164.4 | 16.3 | 2.17 | 1.310 | 84.2 | 0.692 | 3.150 | 14.1 | 185.8 | --- | 5.328 | -0.88 | 0.249 | 77.3 | 29.5 | 0.4 | 0.192 |
| 4-4600 | 4-5760 | 0.318 | 166.1 | 16.6 | 2.39 | 1.310 | 84.6 | 0.692 | 3.155 | 13.2 | 186.6 | --- | 5.338 | -1.10 | 0.252 | 75.8 | 29.1 | 0.1 | 0.194 |
| 4-4600 | 4-5780 | 0.317 | 168.1 | 17.5 | 2.74 | 1.311 | 85.0 | 0.692 | 3.161 | 12.3 | 187.3 | --- | 5.349 | -1.45 | 0.254 | 74.4 | 28.9 | -0.3 | 0.195 |
| 4-4600 | 4-5800 | 0.317 | 170.8 | 19.6 | 3.44 | 1.311 | 85.3 | 0.692 | 3.168 | 11.4 | 188.0 | --- | 5.361 | -2.14 | 0.256 | 73.0 | 28.8 | -1.2 | 0.197 |
| 4-4600 | 4-5820 | 0.326 | 175.6 | 26.1 | 5.39 | 1.311 | 85.7 | 0.692 | 3.175 | 10.5 | 188.7 | --- | 5.374 | -4.09 | 0.259 | 71.7 | 28.8 | -3.5 | 0.200 |
| 4-4600 | 4-5840 | 0.893 | 280.7 | 72.4 | 42.72 | 1.311 | 86.1 | 0.693 | 3.183 | 9.5 | 189.4 | --- | 5.389 | -41.42 | 0.261 | 70.4 | 34.6 | -30.3 | 0.307 |
| 4-4600 | 4-5860 | 0.312 | 163.7 | -9.4 | -3.57 | 1.312 | 86.5 | 0.693 | 3.192 | 8.5 | 190.0 | --- | 5.404 | 4.87 | 0.264 | 69.2 | 28.4 | 7.3 | 0.205 |
| 4-4600 | 4-5880 | 0.303 | 169.6 | -0.3 | -1.02 | 1.312 | 86.9 | 0.694 | 3.200 | 7.5 | 190.6 | --- | 5.421 | 2.32 | 0.266 | 68.1 | 28.6 | 4.3 | 0.206 |
| 4-4600 | 4-5900 | 0.301 | 172.6 | 2.1 | -0.22 | 1.312 | 87.4 | 0.694 | 3.210 | 6.5 | 191.3 | --- | 5.438 | 1.53 | 0.269 | 67.0 | 28.9 | 3.3 | 0.208 |
| 4-4600 | 4-5920 | 0.300 | 175.0 | 3.0 | 0.17 | 1.313 | 87.8 | 0.695 | 3.219 | 5.4 | 191.9 | --- | 5.456 | 1.13 | 0.272 | 65.9 | 29.2 | 2.8 | 0.210 |
| 4-4600 | 4-5940 | 0.299 | 177.2 | 3.2 | 0.40 | 1.313 | 88.2 | 0.696 | 3.229 | 4.3 | 192.5 | --- | 5.476 | 0.90 | 0.274 | 64.9 | 29.5 | 2.6 | 0.213 |
| 4-4600 | 4-5960 | 0.298 | 179.2 | 3.0 | 0.56 | 1.313 | 88.7 | 0.697 | 3.239 | 3.3 | 193.0 | --- | 5.495 | 0.75 | 0.277 | 63.9 | 29.9 | 2.4 | 0.215 |
| 4-4600 | 4-5980 | 0.298 | 181.3 | 2.7 | 0.67 | 1.314 | 89.1 | 0.697 | 3.250 | 2.1 | 193.6 | --- | 5.516 | 0.64 | 0.280 | 63.0 | 30.4 | 2.3 | 0.218 |
| 4-4600 | 4-6000 | 0.298 | 183.3 | 2.2 | 0.75 | 1.314 | 89.6 | 0.698 | 3.260 | 1.0 | 194.2 | --- | 5.537 | 0.56 | 0.283 | 62.1 | 30.9 | 2.2 | 0.221 |
| 4-4600 | 4-6020 | 0.298 | 185.3 | 1.6 | 0.82 | 1.315 | 90.1 | 0.699 | 3.271 | 359.9 | 554.7 | 0.983 | 5.559 | 0.50 | 0.285 | 61.3 | 31.5 | 2.2 | 0.223 |
| 4-4600 | 4-6040 | 0.299 | 187.3 | 1.0 | 0.87 | 1.315 | 90.5 | 0.700 | 3.283 | 358.7 | 555.2 | 0.983 | 5.582 | 0.45 | 0.288 | 60.4 | 32.1 | 2.1 | 0.226 |
| 4-4600 | 4-6060 | 0.300 | 189.4 | 0.3 | 0.91 | 1.315 | 91.0 | 0.702 | 3.294 | 357.5 | 555.7 | 0.983 | 5.605 | 0.41 | 0.291 | 59.7 | 32.8 | 2.1 | 0.229 |
| 4-4600 | 4-6080 | 0.301 | 191.4 | -0.4 | 0.95 | 1.316 | 91.5 | 0.703 | 3.306 | 356.3 | 556.2 | 0.983 | 5.629 | 0.38 | 0.294 | 58.9 | 33.5 | 2.1 | 0.232 |
| 4-4600 | 4-6100 | 0.303 | 193.5 | -1.2 | 0.98 | 1.316 | 92.0 | 0.704 | 3.317 | 355.1 | 556.7 | 0.982 | 5.653 | 0.35 | 0.296 | 58.2 | 34.3 | 2.1 | 0.235 |
| 4-4600 | 4-6120 | 0.304 | 195.5 | -1.9 | 1.00 | 1.317 | 92.5 | 0.705 | 3.329 | 353.9 | 557.2 | 0.981 | 5.678 | 0.32 | 0.299 | 57.4 | 35.1 | 2.1 | 0.238 |
| 4-4600 | 4-6140 | 0.307 | 197.6 | -2.7 | 1.03 | 1.317 | 93.1 | 0.707 | 3.342 | 352.6 | 557.6 | 0.980 | 5.703 | 0.30 | 0.302 | 56.8 | 36.0 | 2.1 | 0.241 |
| 4-4600 | 4-6160 | 0.309 | 199.7 | -3.5 | 1.05 | 1.317 | 93.6 | 0.708 | 3.354 | 351.4 | 558.1 | 0.979 | 5.729 | 0.28 | 0.305 | 56.1 | 36.9 | 2.1 | 0.244 |
| 4-4600 | 4-6180 | 0.312 | 201.7 | -4.3 | 1.06 | 1.318 | 94.1 | 0.710 | 3.366 | 350.1 | 558.5 | 0.977 | 5.755 | 0.27 | 0.307 | 55.4 | 37.8 | 2.2 | 0.247 |
| 4-4600 | 4-6200 | 0.316 | 203.8 | -5.1 | 1.08 | 1.318 | 94.7 | 0.711 | 3.379 | 348.8 | 558.9 | 0.976 | 5.782 | 0.25 | 0.310 | 54.8 | 38.8 | 2.2 | 0.250 |
| 4-4610 | 4-4890 | 0.641 | 173.6 | 6.3 | 1.29 | 1.626 | 81.1 | 1.587 | -1.644 | 14.4 | 110.0 | --- | --- | 0.10 | 0.988 | 162.9 | 56.1 | 2.6 | 0.955 |
| 4-4610 | 4-4910 | 0.600 | 170.8 | 7.6 | 1.29 | 1.578 | 80.4 | 1.438 | -2.194 | 16.3 | 113.4 | --- | --- | 0.11 | 0.907 | 162.0 | 56.3 | 2.6 | 0.876 |
| 4-4610 | 4-4930 | 0.568 | 168.1 | 8.8 | 1.29 | 1.538 | 79.7 | 1.317 | -3.010 | 18.2 | 116.8 | --- | --- | 0.11 | 0.836 | 160.9 | 56.5 | 2.6 | 0.807 |
| 4-4610 | 4-4950 | 0.543 | 165.4 | 10.0 | 1.28 | 1.505 | 79.0 | 1.220 | -4.319 | 20.0 | 120.1 | --- | --- | 0.11 | 0.774 | 159.8 | 56.6 | 2.6 | 0.746 |
| 4-4610 | 4-4970 | 0.523 | 162.9 | 11.1 | 1.28 | 1.477 | 78.4 | 1.140 | -6.740 | 21.8 | 123.4 | --- | --- | 0.11 | 0.718 | 158.7 | 56.7 | 2.6 | 0.691 |
| 4-4610 | 4-4990 | 0.508 | 160.5 | 12.1 | 1.28 | 1.454 | 77.8 | 1.074 | 12.632 | 23.5 | 126.7 | --- | --- | 0.11 | 0.668 | 157.4 | 56.8 | 2.6 | 0.643 |
| 4-4610 | 4-5010 | 0.495 | 158.3 | 13.0 | 1.27 | 1.434 | 77.3 | 1.020 | 47.189 | 25.1 | 129.8 | --- | --- | 0.11 | 0.623 | 156.1 | 56.8 | 2.6 | 0.599 |
| 4-4610 | 4-5030 | 0.485 | 156.4 | 13.8 | 1.27 | 1.416 | 76.9 | 0.974 | 36.176 | 26.6 | 132.8 | --- | --- | 0.11 | 0.583 | 154.7 | 56.8 | 2.6 | 0.560 |
| 4-4610 | 4-5050 | 0.477 | 154.6 | 14.4 | 1.27 | 1.402 | 76.5 | 0.936 | 14.474 | 28.0 | 135.7 | --- | --- | 0.11 | 0.546 | 153.2 | 56.7 | 2.6 | 0.524 |
| 4-4610 | 4-5070 | 0.470 | 153.0 | 15.0 | 1.26 | 1.389 | 76.1 | 0.904 | 9.579 | 29.3 | 138.5 | --- | --- | 0.11 | 0.513 | 151.6 | 56.5 | 2.6 | 0.491 |
| 4-4610 | 4-5090 | 0.465 | 151.5 | 15.5 | 1.26 | 1.378 | 75.8 | 0.876 | 7.430 | 30.4 | 141.2 | --- | --- | 0.11 | 0.483 | 150.0 | 56.3 | 2.6 | 0.462 |
| 4-4610 | 4-5110 | 0.460 | 150.3 | 16.0 | 1.26 | 1.369 | 75.6 | 0.853 | 6.229 | 31.4 | 143.7 | --- | --- | 0.11 | 0.456 | 148.2 | 56.1 | 2.6 | 0.435 |
| 4-4610 | 4-5130 | 0.456 | 149.2 | 16.4 | 1.26 | 1.361 | 75.3 | 0.833 | 5.468 | 32.3 | 146.1 | --- | --- | 0.11 | 0.431 | 146.4 | 55.7 | 2.6 | 0.410 |
| 4-4610 | 4-5150 | 0.453 | 148.3 | 16.7 | 1.25 | 1.353 | 75.2 | 0.816 | 4.946 | 33.1 | 148.4 | --- | --- | 0.12 | 0.408 | 144.5 | 55.3 | 2.6 | 0.387 |
| 4-4610 | 4-5170 | 0.450 | 147.5 | 17.0 | 1.25 | 1.347 | 75.0 | 0.801 | 4.569 | 33.8 | 150.6 | --- | --- | 0.12 | 0.387 | 142.4 | 54.9 | 2.6 | 0.367 |
| 4-4610 | 4-5190 | 0.447 | 146.8 | 17.2 | 1.24 | 1.342 | 74.9 | 0.788 | 4.285 | 34.4 | 152.7 | --- | --- | 0.12 | 0.368 | 140.3 | 54.3 | 2.6 | 0.348 |
| 4-4610 | 4-5210 | 0.444 | 146.3 | 17.3 | 1.24 | 1.337 | 74.8 | 0.777 | 4.066 | 34.8 | 154.7 | --- | --- | 0.12 | 0.351 | 138.1 | 53.7 | 2.6 | 0.330 |
| 4-4610 | 4-5230 | 0.442 | 145.9 | 17.5 | 1.24 | 1.333 | 74.8 | 0.767 | 3.893 | 35.2 | 156.6 | --- | --- | 0.12 | 0.336 | 135.9 | 53.0 | 2.5 | 0.314 |
| 4-4610 | 4-5250 | 0.439 | 145.6 | 17.6 | 1.23 | 1.330 | 74.8 | 0.759 | 3.754 | 35.4 | 158.4 | --- | --- | 0.12 | 0.322 | 133.5 | 52.3 | 2.5 | 0.300 |
| 4-4610 | 4-5270 | 0.436 | 145.4 | 17.7 | 1.23 | 1.326 | 74.8 | 0.752 | 3.641 | 35.6 | 160.1 | --- | --- | 0.13 | 0.309 | 131.1 | 51.5 | 2.5 | 0.286 |
| 4-4610 | 4-5290 | 0.434 | 145.2 | 17.7 | 1.23 | 1.324 | 74.8 | 0.745 | 3.548 | 35.7 | 161.8 | --- | --- | 0.13 | 0.298 | 128.6 | 50.6 | 2.5 | 0.274 |
| 4-4610 | 4-5310 | 0.431 | 145.2 | 17.7 | 1.22 | 1.321 | 74.9 | 0.739 | 3.471 | 35.8 | 163.3 | --- | --- | 0.13 | 0.287 | 126.0 | 49.6 | 2.5 | 0.263 |
| 4-4610 | 4-5330 | 0.428 | 145.2 | 17.7 | 1.22 | 1.319 | 75.0 | 0.734 | 3.407 | 35.7 | 164.8 | --- | --- | 0.13 | 0.278 | 123.4 | 48.6 | 2.4 | 0.253 |
| 4-4610 | 4-5350 | 0.425 | 145.3 | 17.7 | 1.21 | 1.318 | 75.1 | 0.730 | 3.354 | 35.6 | 166.3 | --- | --- | 0.14 | 0.271 | 120.8 | 47.5 | 2.4 | 0.244 |
| 4-4610 | 4-5370 | 0.422 | 145.5 | 17.7 | 1.21 | 1.316 | 75.2 | 0.726 | 3.309 | 35.4 | 167.6 | --- | --- | 0.14 | 0.264 | 118.1 | 46.4 | 2.4 | 0.236 |
| 4-4610 | 4-5390 | 0.419 | 145.7 | 17.6 | 1.20 | 1.315 | 75.3 | 0.722 | 3.271 | 35.2 | 169.0 | --- | --- | 0.14 | 0.258 | 115.4 | 45.3 | 2.3 | 0.229 |
| 4-4610 | 4-5410 | 0.416 | 146.0 | 17.5 | 1.20 | 1.314 | 75.5 | 0.719 | 3.240 | 34.9 | 170.2 | --- | --- | 0.15 | 0.253 | 112.8 | 44.1 | 2.3 | 0.222 |
| 4-4610 | 4-5430 | 0.413 | 146.4 | 17.4 | 1.19 | 1.313 | 75.7 | 0.717 | 3.214 | 34.5 | 171.4 | --- | --- | 0.15 | 0.248 | 110.1 | 42.9 | 2.3 | 0.217 |
| 4-4610 | 4-5450 | 0.410 | 146.8 | 17.3 | 1.18 | 1.312 | 75.9 | 0.714 | 3.192 | 34.1 | 172.6 | --- | --- | 0.16 | 0.245 | 107.5 | 41.7 | 2.2 | 0.212 |
| 4-4610 | 4-5470 | 0.406 | 147.3 | 17.1 | 1.18 | 1.311 | 76.1 | 0.712 | 3.174 | 33.7 | 173.7 | --- | --- | 0.16 | 0.242 | 104.9 | 40.5 | 2.2 | 0.207 |
| 4-4610 | 4-5490 | 0.403 | 147.8 | 16.9 | 1.17 | 1.311 | 76.3 | 0.710 | 3.159 | 33.2 | 174.8 | --- | --- | 0.17 | 0.240 | 102.3 | 39.3 | 2.1 | 0.204 |
| 4-4610 | 4-5510 | 0.399 | 148.3 | 16.8 | 1.16 | 1.310 | 76.5 | 0.708 | 3.147 | 32.7 | 175.9 | --- | --- | 0.17 | 0.238 | 99.9 | 38.1 | 2.1 | 0.201 |
| 4-4610 | 4-5530 | 0.396 | 149.0 | 16.6 | 1.15 | 1.310 | 76.8 | 0.707 | 3.138 | 32.1 | 176.9 | --- | --- | 0.18 | 0.237 | 97.4 | 37.0 | 2.1 | 0.198 |
| 4-4610 | 4-5550 | 0.392 | 149.6 | 16.3 | 1.14 | 1.309 | 77.0 | 0.705 | 3.131 | 31.5 | 177.9 | --- | --- | 0.19 | 0.236 | 95.1 | 35.9 | 2.0 | 0.196 |
| 4-4610 | 4-5570 | 0.388 | 150.3 | 16.1 | 1.14 | 1.309 | 77.3 | 0.704 | 3.126 | 30.9 | 178.8 | --- | --- | 0.20 | 0.236 | 92.8 | 34.9 | 2.0 | 0.194 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4610 | 4-5590 | 0.385 | 151.1 | 15.8 | 1.12 | 1.309 | 77.6 | 0.703 | 3.123 | 30.2 | 179.7 | --- | --- | 0.21 | 0.236 | 90.6 | 33.9 | 2.0 | 0.193 |
| 4-4610 | 4-5610 | 0.381 | 151.9 | 15.5 | 1.11 | 1.309 | 77.9 | 0.702 | 3.121 | 29.6 | 180.6 | --- | 5.312 | 0.22 | 0.237 | 88.5 | 33.0 | 1.9 | 0.192 |
| 4-4610 | 4-5630 | 0.377 | 152.7 | 15.2 | 1.10 | 1.309 | 78.2 | 0.701 | 3.121 | 28.8 | 181.5 | --- | 5.309 | 0.23 | 0.238 | 86.5 | 32.2 | 1.9 | 0.192 |
| 4-4610 | 4-5650 | 0.373 | 153.6 | 14.9 | 1.08 | 1.309 | 78.5 | 0.700 | 3.122 | 28.1 | 182.3 | --- | 5.308 | 0.24 | 0.239 | 84.6 | 31.5 | 1.9 | 0.192 |
| 4-4610 | 4-5670 | 0.369 | 154.6 | 14.5 | 1.07 | 1.309 | 78.8 | 0.700 | 3.124 | 27.3 | 183.2 | --- | 5.310 | 0.25 | 0.241 | 82.7 | 30.8 | 1.9 | 0.192 |
| 4-4610 | 4-5690 | 0.365 | 155.5 | 14.1 | 1.05 | 1.309 | 79.1 | 0.699 | 3.127 | 26.5 | 184.0 | --- | 5.314 | 0.27 | 0.242 | 80.9 | 30.2 | 1.9 | 0.193 |
| 4-4610 | 4-5710 | 0.361 | 156.6 | 13.7 | 1.03 | 1.309 | 79.5 | 0.699 | 3.132 | 25.6 | 184.7 | --- | 5.320 | 0.29 | 0.244 | 79.3 | 29.7 | 1.9 | 0.194 |
| 4-4610 | 4-5730 | 0.357 | 157.6 | 13.3 | 1.00 | 1.310 | 79.8 | 0.698 | 3.136 | 24.8 | 185.5 | --- | 5.327 | 0.32 | 0.246 | 77.6 | 29.3 | 1.9 | 0.194 |
| 4-4610 | 4-5750 | 0.353 | 158.7 | 12.8 | 0.97 | 1.310 | 80.2 | 0.698 | 3.142 | 23.9 | 186.2 | --- | 5.336 | 0.34 | 0.248 | 76.1 | 28.9 | 1.9 | 0.196 |
| 4-4610 | 4-5770 | 0.349 | 159.9 | 12.2 | 0.94 | 1.310 | 80.6 | 0.698 | 3.149 | 23.0 | 186.9 | --- | 5.346 | 0.38 | 0.251 | 74.6 | 28.7 | 1.9 | 0.197 |
| 4-4610 | 4-5790 | 0.345 | 161.0 | 11.6 | 0.90 | 1.310 | 81.0 | 0.698 | 3.156 | 22.1 | 187.6 | --- | 5.358 | 0.42 | 0.253 | 73.3 | 28.5 | 2.0 | 0.199 |
| 4-4610 | 4-5810 | 0.342 | 162.2 | 11.0 | 0.84 | 1.311 | 81.3 | 0.698 | 3.163 | 21.1 | 188.3 | --- | 5.370 | 0.47 | 0.256 | 71.9 | 28.4 | 2.0 | 0.200 |
| 4-4610 | 4-5830 | 0.338 | 163.5 | 10.2 | 0.77 | 1.311 | 81.7 | 0.698 | 3.171 | 20.1 | 189.0 | --- | 5.384 | 0.54 | 0.258 | 70.7 | 28.4 | 2.1 | 0.202 |
| 4-4610 | 4-5850 | 0.334 | 164.7 | 9.4 | 0.68 | 1.311 | 82.1 | 0.698 | 3.180 | 19.2 | 189.6 | --- | 5.399 | 0.63 | 0.261 | 69.5 | 28.4 | 2.2 | 0.204 |
| 4-4610 | 4-5870 | 0.331 | 165.9 | 8.4 | 0.55 | 1.312 | 82.6 | 0.698 | 3.189 | 18.2 | 190.3 | --- | 5.415 | 0.76 | 0.264 | 68.3 | 28.6 | 2.4 | 0.206 |
| 4-4610 | 4-5890 | 0.327 | 167.1 | 7.0 | 0.34 | 1.312 | 83.0 | 0.698 | 3.199 | 17.1 | 190.9 | --- | 5.432 | 0.96 | 0.266 | 67.2 | 28.7 | 2.6 | 0.208 |
| 4-4610 | 4-5910 | 0.324 | 168.0 | 5.1 | -0.00 | 1.312 | 83.4 | 0.698 | 3.208 | 16.1 | 191.5 | --- | 5.449 | 1.31 | 0.269 | 66.2 | 29.0 | 3.0 | 0.211 |
| 4-4610 | 4-5930 | 0.321 | 168.4 | 1.7 | -0.75 | 1.313 | 83.8 | 0.699 | 3.219 | 15.0 | 192.1 | --- | 5.468 | 2.06 | 0.272 | 65.2 | 29.3 | 3.9 | 0.213 |
| 4-4610 | 4-5950 | 0.325 | 165.4 | -9.2 | -3.51 | 1.313 | 84.3 | 0.699 | 3.229 | 13.9 | 192.7 | --- | 5.487 | 4.82 | 0.275 | 64.2 | 29.6 | 7.0 | 0.217 |
| 4-4610 | 4-5970 | 0.433 | 197.4 | 49.4 | 14.85 | 1.314 | 84.7 | 0.700 | 3.240 | 12.8 | 193.3 | --- | 5.506 | -13.55 | 0.278 | 63.3 | 31.8 | -13.0 | 0.231 |
| 4-4610 | 4-5990 | 0.323 | 181.3 | 18.0 | 4.13 | 1.314 | 85.2 | 0.700 | 3.251 | 11.7 | 193.8 | --- | 5.527 | -2.83 | 0.281 | 62.4 | 30.9 | -1.6 | 0.221 |
| 4-4610 | 4-6010 | 0.315 | 181.1 | 12.7 | 2.88 | 1.314 | 85.6 | 0.701 | 3.262 | 10.6 | 194.4 | --- | 5.548 | -1.58 | 0.283 | 61.6 | 31.4 | -0.2 | 0.223 |
| 4-4610 | 4-6030 | 0.312 | 182.2 | 10.1 | 2.39 | 1.315 | 86.1 | 0.701 | 3.274 | 9.4 | 194.9 | --- | 5.569 | -1.09 | 0.286 | 60.8 | 32.0 | 0.4 | 0.225 |
| 4-4610 | 4-6050 | 0.309 | 183.6 | 8.4 | 2.13 | 1.315 | 86.6 | 0.702 | 3.285 | 8.2 | 195.4 | --- | 5.592 | -0.84 | 0.289 | 60.0 | 32.6 | 0.7 | 0.228 |
| 4-4610 | 4-6070 | 0.307 | 185.3 | 7.0 | 1.97 | 1.316 | 87.1 | 0.703 | 3.297 | 7.1 | 195.9 | --- | 5.614 | -0.68 | 0.292 | 59.3 | 33.3 | 0.9 | 0.231 |
| 4-4610 | 4-6090 | 0.305 | 187.0 | 5.7 | 1.86 | 1.316 | 87.6 | 0.704 | 3.309 | 5.9 | 196.4 | --- | 5.638 | -0.57 | 0.295 | 58.6 | 34.0 | 1.1 | 0.233 |
| 4-4610 | 4-6110 | 0.304 | 188.9 | 4.6 | 1.78 | 1.316 | 88.1 | 0.704 | 3.322 | 4.6 | 196.9 | --- | 5.661 | -0.49 | 0.298 | 57.9 | 34.8 | 1.2 | 0.236 |
| 4-4610 | 4-6130 | 0.303 | 190.8 | 3.5 | 1.72 | 1.317 | 88.6 | 0.705 | 3.334 | 3.4 | 197.4 | --- | 5.686 | -0.43 | 0.300 | 57.2 | 35.7 | 1.3 | 0.239 |
| 4-4610 | 4-6150 | 0.303 | 192.8 | 2.4 | 1.67 | 1.317 | 89.1 | 0.706 | 3.347 | 2.2 | 197.8 | --- | 5.711 | -0.39 | 0.303 | 56.6 | 36.5 | 1.4 | 0.242 |
| 4-4610 | 4-6170 | 0.303 | 194.9 | 1.4 | 1.63 | 1.318 | 89.6 | 0.707 | 3.359 | 0.9 | 198.3 | --- | 5.736 | -0.35 | 0.306 | 56.0 | 37.4 | 1.5 | 0.244 |
| 4-4610 | 4-6190 | 0.303 | 197.0 | 0.3 | 1.60 | 1.318 | 90.2 | 0.708 | 3.372 | 359.6 | 558.7 | 0.983 | 5.761 | -0.32 | 0.309 | 55.4 | 38.4 | 1.6 | 0.247 |
| 4-4610 | 4-6210 | 0.304 | 199.1 | -0.7 | 1.58 | 1.319 | 90.7 | 0.710 | 3.385 | 358.3 | 559.1 | 0.983 | 5.787 | -0.29 | 0.311 | 54.8 | 39.4 | 1.6 | 0.250 |
| 4-4620 | 4-4940 | 0.625 | 162.4 | 10.7 | 1.27 | 1.524 | 73.0 | 1.262 | -3.472 | 30.4 | 119.6 | --- | --- | 0.33 | 0.809 | 161.0 | 56.2 | 2.7 | 0.785 |
| 4-4620 | 4-4960 | 0.604 | 160.0 | 11.6 | 1.26 | 1.492 | 72.5 | 1.174 | -5.182 | 32.4 | 123.1 | --- | --- | 0.33 | 0.748 | 159.9 | 56.2 | 2.7 | 0.725 |
| 4-4620 | 4-4980 | 0.587 | 157.8 | 12.5 | 1.25 | 1.466 | 72.0 | 1.102 | -8.728 | 34.2 | 126.4 | --- | --- | 0.33 | 0.694 | 158.7 | 56.3 | 2.7 | 0.673 |
| 4-4620 | 4-5000 | 0.574 | 155.9 | 13.2 | 1.24 | 1.443 | 71.6 | 1.044 | 20.267 | 36.0 | 129.7 | --- | --- | 0.33 | 0.645 | 157.5 | 56.2 | 2.7 | 0.625 |
| 4-4620 | 4-5020 | 0.563 | 154.1 | 13.9 | 1.23 | 1.424 | 71.2 | 0.995 | 91.948 | 37.6 | 132.8 | --- | --- | 0.33 | 0.602 | 156.1 | 56.2 | 2.7 | 0.583 |
| 4-4620 | 4-5040 | 0.555 | 152.5 | 14.5 | 1.22 | 1.408 | 70.9 | 0.955 | 19.518 | 39.1 | 135.8 | --- | --- | 0.34 | 0.562 | 154.7 | 56.0 | 2.7 | 0.545 |
| 4-4620 | 4-5060 | 0.548 | 151.1 | 14.9 | 1.21 | 1.394 | 70.6 | 0.921 | 11.083 | 40.4 | 138.7 | --- | --- | 0.34 | 0.527 | 153.2 | 55.9 | 2.7 | 0.510 |
| 4-4620 | 4-5080 | 0.542 | 149.9 | 15.4 | 1.20 | 1.382 | 70.4 | 0.893 | 8.103 | 41.7 | 141.4 | --- | --- | 0.34 | 0.494 | 151.5 | 55.6 | 2.7 | 0.479 |
| 4-4620 | 4-5100 | 0.537 | 148.8 | 15.7 | 1.20 | 1.372 | 70.2 | 0.869 | 6.588 | 42.7 | 144.0 | --- | --- | 0.34 | 0.465 | 149.8 | 55.3 | 2.7 | 0.450 |
| 4-4620 | 4-5120 | 0.532 | 147.9 | 16.0 | 1.19 | 1.363 | 70.0 | 0.849 | 5.678 | 43.7 | 146.5 | --- | --- | 0.34 | 0.438 | 148.0 | 55.0 | 2.7 | 0.424 |
| 4-4620 | 4-5140 | 0.528 | 147.1 | 16.2 | 1.18 | 1.355 | 69.9 | 0.831 | 5.075 | 44.5 | 148.8 | --- | --- | 0.34 | 0.414 | 146.1 | 54.6 | 2.7 | 0.400 |
| 4-4620 | 4-5160 | 0.526 | 146.5 | 16.4 | 1.17 | 1.348 | 69.8 | 0.816 | 4.649 | 45.1 | 151.0 | --- | --- | 0.35 | 0.392 | 144.2 | 54.1 | 2.7 | 0.379 |
| 4-4620 | 4-5180 | 0.521 | 146.0 | 16.6 | 1.16 | 1.343 | 69.8 | 0.804 | 4.335 | 45.7 | 153.1 | --- | --- | 0.35 | 0.372 | 142.1 | 53.5 | 2.7 | 0.359 |
| 4-4620 | 4-5200 | 0.518 | 145.5 | 16.7 | 1.15 | 1.338 | 69.7 | 0.792 | 4.096 | 46.2 | 155.1 | --- | --- | 0.35 | 0.354 | 139.9 | 52.9 | 2.7 | 0.341 |
| 4-4620 | 4-5220 | 0.515 | 145.2 | 16.8 | 1.14 | 1.333 | 69.7 | 0.783 | 3.908 | 46.5 | 157.0 | --- | --- | 0.36 | 0.337 | 137.6 | 52.2 | 2.7 | 0.324 |
| 4-4620 | 4-5240 | 0.512 | 145.0 | 16.9 | 1.13 | 1.329 | 69.8 | 0.774 | 3.760 | 46.8 | 158.8 | --- | --- | 0.36 | 0.322 | 135.2 | 51.4 | 2.7 | 0.309 |
| 4-4620 | 4-5260 | 0.509 | 144.8 | 16.9 | 1.12 | 1.326 | 69.8 | 0.767 | 3.639 | 46.9 | 160.5 | --- | --- | 0.36 | 0.309 | 132.8 | 50.6 | 2.6 | 0.295 |
| 4-4620 | 4-5280 | 0.505 | 144.7 | 16.9 | 1.11 | 1.323 | 69.9 | 0.760 | 3.541 | 47.0 | 162.1 | --- | --- | 0.37 | 0.296 | 130.2 | 49.7 | 2.6 | 0.283 |
| 4-4620 | 4-5300 | 0.502 | 144.7 | 16.9 | 1.10 | 1.321 | 70.0 | 0.755 | 3.460 | 47.0 | 163.6 | --- | --- | 0.37 | 0.286 | 127.6 | 48.7 | 2.6 | 0.271 |
| 4-4620 | 4-5320 | 0.499 | 144.7 | 16.9 | 1.08 | 1.319 | 70.1 | 0.749 | 3.393 | 46.9 | 165.1 | --- | --- | 0.38 | 0.276 | 125.0 | 47.7 | 2.6 | 0.261 |
| 4-4620 | 4-5340 | 0.495 | 144.8 | 16.9 | 1.07 | 1.317 | 70.2 | 0.745 | 3.338 | 46.8 | 166.5 | --- | --- | 0.38 | 0.268 | 122.3 | 46.6 | 2.6 | 0.251 |
| 4-4620 | 4-5360 | 0.492 | 145.0 | 16.8 | 1.06 | 1.315 | 70.4 | 0.741 | 3.291 | 46.6 | 167.8 | --- | --- | 0.39 | 0.260 | 119.5 | 45.5 | 2.6 | 0.243 |
| 4-4620 | 4-5380 | 0.488 | 145.2 | 16.7 | 1.05 | 1.314 | 70.6 | 0.737 | 3.252 | 46.3 | 169.1 | --- | --- | 0.40 | 0.254 | 116.8 | 44.4 | 2.5 | 0.236 |
| 4-4620 | 4-5400 | 0.484 | 145.5 | 16.6 | 1.03 | 1.313 | 70.7 | 0.734 | 3.220 | 46.0 | 170.3 | --- | --- | 0.40 | 0.248 | 114.0 | 43.2 | 2.5 | 0.229 |
| 4-4620 | 4-5420 | 0.480 | 145.8 | 16.5 | 1.02 | 1.312 | 70.9 | 0.731 | 3.193 | 45.6 | 171.5 | --- | --- | 0.41 | 0.244 | 111.3 | 42.1 | 2.5 | 0.223 |
| 4-4620 | 4-5440 | 0.476 | 146.1 | 16.4 | 1.01 | 1.311 | 71.2 | 0.728 | 3.171 | 45.2 | 172.7 | --- | --- | 0.42 | 0.240 | 108.5 | 40.9 | 2.4 | 0.218 |
| 4-4620 | 4-5460 | 0.472 | 146.5 | 16.2 | 0.99 | 1.310 | 71.4 | 0.726 | 3.152 | 44.7 | 173.8 | --- | --- | 0.43 | 0.237 | 105.8 | 39.7 | 2.4 | 0.213 |
| 4-4620 | 4-5480 | 0.468 | 147.0 | 16.1 | 0.98 | 1.309 | 71.6 | 0.724 | 3.138 | 44.2 | 174.8 | --- | --- | 0.44 | 0.235 | 103.2 | 38.6 | 2.4 | 0.209 |
| 4-4620 | 4-5500 | 0.464 | 147.4 | 15.9 | 0.96 | 1.309 | 71.9 | 0.722 | 3.126 | 43.7 | 175.8 | --- | --- | 0.45 | 0.233 | 100.6 | 37.4 | 2.4 | 0.206 |
| 4-4620 | 4-5520 | 0.459 | 147.9 | 15.7 | 0.94 | 1.309 | 72.1 | 0.720 | 3.117 | 43.1 | 176.8 | --- | --- | 0.46 | 0.232 | 98.1 | 36.3 | 2.3 | 0.203 |
| 4-4620 | 4-5540 | 0.455 | 148.5 | 15.5 | 0.93 | 1.308 | 72.4 | 0.718 | 3.110 | 42.4 | 177.8 | --- | --- | 0.47 | 0.231 | 95.6 | 35.3 | 2.3 | 0.201 |
| 4-4620 | 4-5560 | 0.450 | 149.1 | 15.2 | 0.91 | 1.308 | 72.7 | 0.717 | 3.105 | 41.8 | 178.7 | --- | --- | 0.49 | 0.231 | 93.3 | 34.3 | 2.3 | 0.200 |
| 4-4620 | 4-5580 | 0.446 | 149.7 | 15.0 | 0.89 | 1.308 | 73.0 | 0.715 | 3.102 | 41.1 | 179.6 | --- | --- | 0.50 | 0.231 | 91.0 | 33.4 | 2.3 | 0.198 |
| 4-4620 | 4-5600 | 0.441 | 150.3 | 14.7 | 0.86 | 1.308 | 73.3 | 0.714 | 3.101 | 40.4 | 180.5 | --- | 5.315 | 0.52 | 0.232 | 88.8 | 32.5 | 2.3 | 0.197 |
| 4-4620 | 4-5620 | 0.436 | 151.0 | 14.4 | 0.84 | 1.308 | 73.6 | 0.713 | 3.101 | 39.6 | 181.3 | --- | 5.312 | 0.54 | 0.233 | 86.7 | 31.7 | 2.2 | 0.197 |
| 4-4620 | 4-5640 | 0.431 | 151.7 | 14.1 | 0.82 | 1.308 | 74.0 | 0.712 | 3.102 | 38.9 | 182.1 | --- | 5.311 | 0.56 | 0.234 | 84.7 | 31.0 | 2.2 | 0.197 |
| 4-4620 | 4-5660 | 0.427 | 152.5 | 13.8 | 0.79 | 1.308 | 74.3 | 0.711 | 3.104 | 38.1 | 182.9 | --- | 5.312 | 0.58 | 0.236 | 82.8 | 30.3 | 2.2 | 0.197 |
| 4-4620 | 4-5680 | 0.422 | 153.3 | 13.5 | 0.76 | 1.308 | 74.7 | 0.710 | 3.108 | 37.2 | 183.7 | --- | 5.315 | 0.60 | 0.238 | 81.0 | 29.8 | 2.2 | 0.197 |
| 4-4620 | 4-5700 | 0.417 | 154.1 | 13.1 | 0.73 | 1.308 | 75.0 | 0.710 | 3.112 | 36.4 | 184.5 | --- | 5.321 | 0.63 | 0.240 | 79.3 | 29.3 | 2.3 | 0.198 |
| 4-4620 | 4-5720 | 0.412 | 155.0 | 12.7 | 0.69 | 1.309 | 75.4 | 0.709 | 3.118 | 35.5 | 185.2 | --- | 5.328 | 0.66 | 0.242 | 77.6 | 28.9 | 2.3 | 0.198 |
| 4-4620 | 4-5740 | 0.407 | 155.8 | 12.3 | 0.65 | 1.309 | 75.7 | 0.708 | 3.124 | 34.6 | 185.9 | --- | 5.336 | 0.69 | 0.244 | 76.1 | 28.6 | 2.3 | 0.199 |
| 4-4620 | 4-5760 | 0.402 | 156.8 | 11.8 | 0.61 | 1.309 | 76.1 | 0.708 | 3.131 | 33.7 | 186.6 | --- | 5.346 | 0.73 | 0.247 | 74.6 | 28.3 | 2.3 | 0.201 |
| 4-4620 | 4-5780 | 0.397 | 157.7 | 11.3 | 0.56 | 1.309 | 76.5 | 0.707 | 3.138 | 32.8 | 187.3 | --- | 5.357 | 0.77 | 0.249 | 73.2 | 28.2 | 2.4 | 0.202 |
| 4-4620 | 4-5800 | 0.391 | 158.7 | 10.7 | 0.51 | 1.310 | 76.9 | 0.707 | 3.146 | 31.8 | 188.0 | --- | 5.370 | 0.82 | 0.252 | 71.8 | 28.1 | 2.4 | 0.203 |
| 4-4620 | 4-5820 | 0.388 | 159.7 | 10.1 | 0.45 | 1.310 | 77.3 | 0.706 | 3.155 | 30.8 | 188.7 | --- | 5.383 | 0.88 | 0.254 | 70.6 | 28.1 | 2.5 | 0.205 |
| 4-4620 | 4-5840 | 0.381 | 160.7 | 9.5 | 0.37 | 1.310 | 77.7 | 0.706 | 3.164 | 29.8 | 189.3 | --- | 5.397 | 0.95 | 0.257 | 69.4 | 28.1 | 2.6 | 0.207 |
| 4-4620 | 4-5860 | 0.376 | 161.8 | 8.8 | 0.29 | 1.311 | 78.1 | 0.706 | 3.173 | 28.8 | 189.9 | --- | 5.413 | 1.03 | 0.260 | 68.2 | 28.3 | 2.6 | 0.209 |
| 4-4620 | 4-5880 | 0.371 | 162.8 | 8.0 | 0.19 | 1.311 | 78.6 | 0.706 | 3.183 | 27.8 | 190.6 | --- | 5.429 | 1.12 | 0.263 | 67.1 | 28.5 | 2.8 | 0.211 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4620 | 4-5900 | 0.367 | 163.9 | 7.1 | 0.07 | 1.312 | 79.0 | 0.706 | 3.193 | 26.7 | 191.2 | --- | 5.446 | 1.24 | 0.266 | 66.1 | 28.7 | 2.9 | 0.213 |
| 4-4620 | 4-5920 | 0.362 | 165.0 | 6.1 | -0.08 | 1.312 | 79.4 | 0.705 | 3.204 | 25.7 | 191.7 | --- | 5.464 | 1.38 | 0.269 | 65.1 | 29.0 | 3.1 | 0.215 |
| 4-4620 | 4-5940 | 0.357 | 166.1 | 4.9 | -0.27 | 1.312 | 79.9 | 0.705 | 3.215 | 24.6 | 192.3 | --- | 5.482 | 1.57 | 0.272 | 64.1 | 29.4 | 3.3 | 0.217 |
| 4-4620 | 4-5960 | 0.353 | 167.1 | 3.5 | -0.52 | 1.313 | 80.3 | 0.706 | 3.226 | 23.5 | 192.9 | --- | 5.502 | 1.81 | 0.275 | 63.2 | 29.9 | 3.6 | 0.219 |
| 4-4620 | 4-5980 | 0.348 | 168.0 | 1.7 | -0.86 | 1.313 | 80.8 | 0.706 | 3.237 | 22.4 | 193.4 | --- | 5.521 | 2.15 | 0.278 | 62.4 | 30.4 | 3.9 | 0.222 |
| 4-4620 | 4-6000 | 0.345 | 168.7 | -0.7 | -1.35 | 1.314 | 81.2 | 0.706 | 3.249 | 21.2 | 194.0 | --- | 5.542 | 2.64 | 0.281 | 61.6 | 30.9 | 4.5 | 0.224 |
| 4-4620 | 4-6020 | 0.342 | 169.0 | -4.2 | -2.15 | 1.314 | 81.7 | 0.706 | 3.261 | 20.1 | 194.5 | --- | 5.563 | 3.43 | 0.284 | 60.8 | 31.5 | 5.3 | 0.227 |
| 4-4620 | 4-6040 | 0.343 | 168.1 | -10.0 | -3.64 | 1.314 | 82.2 | 0.706 | 3.273 | 18.9 | 195.0 | --- | 5.584 | 4.91 | 0.287 | 60.0 | 32.1 | 6.9 | 0.230 |
| 4-4620 | 4-6060 | 0.363 | 163.1 | -22.8 | -7.39 | 1.315 | 82.7 | 0.706 | 3.285 | 17.8 | 195.6 | --- | 5.606 | 8.66 | 0.290 | 59.3 | 32.9 | 10.8 | 0.236 |
| 4-4620 | 4-6080 | 0.731 | 109.8 | -56.4 | -32.94 | 1.315 | 83.1 | 0.707 | 3.298 | 16.7 | 196.1 | --- | 5.629 | 34.21 | 0.292 | 58.6 | 37.6 | 29.3 | 0.305 |
| 4-4620 | 4-6100 | 0.465 | 204.0 | 49.8 | 16.63 | 1.316 | 83.7 | 0.707 | 3.310 | 15.3 | 196.6 | --- | 5.652 | -15.37 | 0.295 | 58.0 | 36.3 | -13.4 | 0.252 |
| 4-4620 | 4-6120 | 0.357 | 192.8 | 27.1 | 7.77 | 1.316 | 84.2 | 0.708 | 3.323 | 14.1 | 197.0 | --- | 5.675 | -6.51 | 0.298 | 57.3 | 35.8 | -5.0 | 0.242 |
| 4-4620 | 4-6140 | 0.335 | 191.1 | 18.6 | 5.37 | 1.317 | 84.7 | 0.708 | 3.336 | 12.9 | 197.5 | --- | 5.699 | -4.12 | 0.301 | 56.7 | 36.4 | -2.5 | 0.242 |
| 4-4620 | 4-6160 | 0.326 | 191.4 | 14.0 | 4.25 | 1.317 | 85.2 | 0.709 | 3.349 | 11.6 | 198.0 | --- | 5.723 | -3.01 | 0.304 | 56.1 | 37.2 | -1.3 | 0.244 |
| 4-4620 | 4-6180 | 0.321 | 192.4 | 11.0 | 3.61 | 1.318 | 85.7 | 0.709 | 3.363 | 10.3 | 198.4 | --- | 5.748 | -2.37 | 0.307 | 55.6 | 38.1 | -0.5 | 0.247 |
| 4-4620 | 4-6200 | 0.317 | 193.8 | 8.6 | 3.19 | 1.318 | 86.2 | 0.710 | 3.376 | 9.1 | 198.9 | --- | 5.773 | -1.96 | 0.309 | 55.0 | 39.0 | -0.1 | 0.249 |
| 4-4620 | 4-6220 | 0.314 | 195.4 | 6.7 | 2.90 | 1.318 | 86.8 | 0.711 | 3.389 | 7.8 | 199.3 | --- | 5.799 | -1.67 | 0.312 | 54.5 | 40.0 | 0.3 | 0.252 |
| 4-4630 | 4-5010 | 0.659 | 153.5 | 13.6 | 1.24 | 1.432 | 65.2 | 1.0155 | 3.532 | 49.2 | 133.5 | --- | --- | 0.55 | 0.621 | 157.8 | 55.3 | 2.7 | 0.609 |
| 4-4630 | 4-5030 | 0.649 | 152.1 | 14.0 | 1.22 | 1.414 | 65.0 | 0.9743 | 3.735 | 50.8 | 136.6 | --- | --- | 0.55 | 0.579 | 156.4 | 55.2 | 2.7 | 0.568 |
| 4-4630 | 4-5050 | 0.641 | 150.9 | 14.4 | 1.21 | 1.398 | 64.8 | 0.9391 | 3.208 | 52.2 | 139.5 | --- | --- | 0.55 | 0.540 | 154.9 | 54.9 | 2.7 | 0.531 |
| 4-4630 | 4-5070 | 0.634 | 149.9 | 14.8 | 1.19 | 1.385 | 64.6 | 0.911 | 8.909 | 53.5 | 142.3 | --- | --- | 0.55 | 0.506 | 153.4 | 54.7 | 2.8 | 0.498 |
| 4-4630 | 4-5090 | 0.627 | 149.1 | 15.1 | 1.18 | 1.374 | 64.5 | 0.887 | 6.978 | 54.5 | 144.9 | --- | --- | 0.55 | 0.474 | 151.7 | 54.3 | 2.8 | 0.468 |
| 4-4630 | 4-5110 | 0.622 | 148.3 | 15.3 | 1.17 | 1.364 | 64.4 | 0.866 | 5.888 | 55.5 | 147.4 | --- | --- | 0.55 | 0.445 | 149.9 | 53.9 | 2.8 | 0.440 |
| 4-4630 | 4-5130 | 0.617 | 147.7 | 15.5 | 1.15 | 1.356 | 64.4 | 0.849 | 5.194 | 56.3 | 149.7 | --- | --- | 0.55 | 0.419 | 148.1 | 53.5 | 2.8 | 0.415 |
| 4-4630 | 4-5150 | 0.612 | 147.2 | 15.6 | 1.14 | 1.349 | 64.3 | 0.834 | 4.717 | 56.9 | 151.9 | --- | --- | 0.55 | 0.396 | 146.1 | 53.0 | 2.8 | 0.392 |
| 4-4630 | 4-5170 | 0.608 | 146.8 | 15.7 | 1.12 | 1.343 | 64.3 | 0.822 | 4.371 | 57.5 | 153.9 | --- | --- | 0.55 | 0.374 | 144.0 | 52.4 | 2.8 | 0.372 |
| 4-4630 | 4-5190 | 0.603 | 146.4 | 15.8 | 1.11 | 1.337 | 64.4 | 0.811 | 4.111 | 57.9 | 155.9 | --- | --- | 0.56 | 0.355 | 141.9 | 51.7 | 2.8 | 0.353 |
| 4-4630 | 4-5210 | 0.599 | 146.2 | 15.9 | 1.09 | 1.333 | 64.4 | 0.801 | 3.910 | 58.2 | 157.7 | --- | --- | 0.56 | 0.337 | 139.6 | 51.0 | 2.7 | 0.335 |
| 4-4630 | 4-5230 | 0.595 | 146.0 | 15.9 | 1.08 | 1.329 | 64.5 | 0.793 | 3.752 | 58.4 | 159.5 | --- | --- | 0.56 | 0.321 | 137.2 | 50.2 | 2.7 | 0.320 |
| 4-4630 | 4-5250 | 0.591 | 145.9 | 15.9 | 1.06 | 1.325 | 64.6 | 0.786 | 3.625 | 58.5 | 161.1 | --- | --- | 0.56 | 0.307 | 134.7 | 49.3 | 2.7 | 0.305 |
| 4-4630 | 4-5270 | 0.587 | 145.9 | 15.9 | 1.05 | 1.322 | 64.7 | 0.779 | 3.522 | 58.6 | 162.7 | --- | --- | 0.57 | 0.294 | 132.1 | 48.4 | 2.7 | 0.292 |
| 4-4630 | 4-5290 | 0.583 | 145.9 | 15.9 | 1.03 | 1.319 | 64.8 | 0.773 | 3.438 | 58.5 | 164.2 | --- | --- | 0.57 | 0.282 | 129.5 | 47.5 | 2.7 | 0.280 |
| 4-4630 | 4-5310 | 0.579 | 146.0 | 15.9 | 1.01 | 1.317 | 65.0 | 0.768 | 3.369 | 58.4 | 165.6 | --- | --- | 0.58 | 0.272 | 126.7 | 46.4 | 2.7 | 0.270 |
| 4-4630 | 4-5330 | 0.574 | 146.1 | 15.8 | 1.00 | 1.315 | 65.2 | 0.764 | 3.311 | 58.2 | 166.9 | --- | --- | 0.58 | 0.263 | 123.9 | 45.4 | 2.7 | 0.260 |
| 4-4630 | 4-5350 | 0.570 | 146.3 | 15.7 | 0.98 | 1.313 | 65.4 | 0.759 | 3.264 | 57.9 | 168.2 | --- | --- | 0.59 | 0.255 | 121.1 | 44.3 | 2.7 | 0.251 |
| 4-4630 | 4-5370 | 0.566 | 146.5 | 15.6 | 0.96 | 1.312 | 65.6 | 0.756 | 3.224 | 57.6 | 169.5 | --- | --- | 0.59 | 0.248 | 118.2 | 43.2 | 2.6 | 0.244 |
| 4-4630 | 4-5390 | 0.561 | 146.7 | 15.5 | 0.95 | 1.311 | 65.8 | 0.752 | 3.191 | 57.2 | 170.7 | --- | --- | 0.60 | 0.242 | 115.3 | 42.0 | 2.6 | 0.237 |
| 4-4630 | 4-5410 | 0.556 | 147.0 | 15.4 | 0.93 | 1.310 | 66.0 | 0.749 | 3.164 | 56.8 | 171.8 | --- | --- | 0.61 | 0.237 | 112.5 | 40.9 | 2.6 | 0.231 |
| 4-4630 | 4-5430 | 0.552 | 147.3 | 15.3 | 0.91 | 1.309 | 66.3 | 0.746 | 3.142 | 56.4 | 172.9 | --- | --- | 0.62 | 0.233 | 109.6 | 39.7 | 2.6 | 0.225 |
| 4-4630 | 4-5450 | 0.547 | 147.7 | 15.1 | 0.89 | 1.308 | 66.5 | 0.744 | 3.123 | 55.9 | 173.9 | --- | --- | 0.62 | 0.230 | 106.8 | 38.6 | 2.5 | 0.221 |
| 4-4630 | 4-5470 | 0.542 | 148.0 | 15.0 | 0.87 | 1.308 | 66.8 | 0.741 | 3.109 | 55.3 | 175.0 | --- | --- | 0.63 | 0.228 | 104.0 | 37.5 | 2.5 | 0.217 |
| 4-4630 | 4-5490 | 0.537 | 148.5 | 14.8 | 0.85 | 1.307 | 67.1 | 0.739 | 3.097 | 54.7 | 175.9 | --- | --- | 0.64 | 0.226 | 101.3 | 36.4 | 2.5 | 0.213 |
| 4-4630 | 4-5510 | 0.532 | 148.9 | 14.6 | 0.83 | 1.307 | 67.4 | 0.737 | 3.088 | 54.1 | 176.9 | --- | --- | 0.65 | 0.225 | 98.6 | 35.3 | 2.5 | 0.210 |
| 4-4630 | 4-5530 | 0.527 | 149.4 | 14.4 | 0.81 | 1.307 | 67.7 | 0.735 | 3.082 | 53.4 | 177.8 | --- | --- | 0.67 | 0.224 | 96.0 | 34.3 | 2.4 | 0.208 |
| 4-4630 | 4-5550 | 0.521 | 149.9 | 14.2 | 0.78 | 1.306 | 68.0 | 0.733 | 3.077 | 52.7 | 178.7 | --- | --- | 0.68 | 0.224 | 93.6 | 33.4 | 2.4 | 0.206 |
| 4-4630 | 4-5570 | 0.516 | 150.4 | 14.0 | 0.76 | 1.306 | 68.3 | 0.732 | 3.074 | 52.0 | 179.6 | --- | --- | 0.69 | 0.224 | 91.2 | 32.5 | 2.4 | 0.205 |
| 4-4630 | 4-5590 | 0.511 | 151.0 | 13.8 | 0.74 | 1.306 | 68.6 | 0.730 | 3.074 | 51.3 | 180.4 | --- | 5.318 | 0.71 | 0.225 | 88.9 | 31.7 | 2.4 | 0.204 |
| 4-4630 | 4-5610 | 0.505 | 151.5 | 13.5 | 0.71 | 1.306 | 69.0 | 0.729 | 3.074 | 50.5 | 181.2 | --- | 5.314 | 0.73 | 0.226 | 86.7 | 30.9 | 2.4 | 0.203 |
| 4-4630 | 4-5630 | 0.500 | 152.1 | 13.2 | 0.68 | 1.306 | 69.3 | 0.728 | 3.076 | 49.7 | 182.0 | --- | 5.313 | 0.74 | 0.228 | 84.7 | 30.2 | 2.4 | 0.203 |
| 4-4630 | 4-5650 | 0.494 | 152.8 | 13.0 | 0.65 | 1.306 | 69.7 | 0.726 | 3.079 | 48.9 | 182.8 | --- | 5.315 | 0.76 | 0.230 | 82.7 | 29.6 | 2.4 | 0.203 |
| 4-4630 | 4-5670 | 0.488 | 153.4 | 12.7 | 0.62 | 1.307 | 70.0 | 0.725 | 3.083 | 48.0 | 183.5 | --- | 5.318 | 0.79 | 0.231 | 80.8 | 29.1 | 2.4 | 0.203 |
| 4-4630 | 4-5690 | 0.482 | 154.1 | 12.3 | 0.59 | 1.307 | 70.4 | 0.724 | 3.088 | 47.2 | 184.3 | --- | 5.323 | 0.81 | 0.234 | 79.0 | 28.7 | 2.4 | 0.203 |
| 4-4630 | 4-5710 | 0.477 | 154.8 | 12.0 | 0.56 | 1.307 | 70.8 | 0.723 | 3.094 | 46.3 | 185.0 | --- | 5.330 | 0.83 | 0.236 | 77.3 | 28.3 | 2.4 | 0.204 |
| 4-4630 | 4-5730 | 0.471 | 155.6 | 11.6 | 0.52 | 1.307 | 71.2 | 0.722 | 3.100 | 45.3 | 185.7 | --- | 5.338 | 0.86 | 0.238 | 75.7 | 28.0 | 2.4 | 0.205 |
| 4-4630 | 4-5750 | 0.465 | 156.3 | 11.3 | 0.48 | 1.308 | 71.6 | 0.721 | 3.107 | 44.4 | 186.4 | --- | 5.348 | 0.89 | 0.241 | 74.2 | 27.8 | 2.4 | 0.206 |
| 4-4630 | 4-5770 | 0.459 | 157.1 | 10.9 | 0.44 | 1.308 | 72.0 | 0.720 | 3.115 | 43.5 | 187.0 | --- | 5.359 | 0.93 | 0.244 | 72.8 | 27.7 | 2.5 | 0.207 |
| 4-4630 | 4-5790 | 0.453 | 157.9 | 10.4 | 0.39 | 1.308 | 72.4 | 0.719 | 3.124 | 42.5 | 187.7 | --- | 5.371 | 0.96 | 0.247 | 71.4 | 27.6 | 2.5 | 0.208 |
| 4-4630 | 4-5810 | 0.447 | 158.7 | 10.0 | 0.34 | 1.309 | 72.8 | 0.719 | 3.133 | 41.5 | 188.3 | --- | 5.385 | 1.01 | 0.250 | 70.1 | 27.6 | 2.5 | 0.210 |
| 4-4630 | 4-5830 | 0.441 | 159.6 | 9.5 | 0.29 | 1.309 | 73.2 | 0.718 | 3.142 | 40.5 | 189.0 | --- | 5.399 | 1.05 | 0.253 | 68.9 | 27.7 | 2.6 | 0.211 |
| 4-4630 | 4-5850 | 0.435 | 160.5 | 8.9 | 0.23 | 1.309 | 73.6 | 0.717 | 3.152 | 39.5 | 189.6 | --- | 5.414 | 1.11 | 0.256 | 67.8 | 27.8 | 2.7 | 0.213 |
| 4-4630 | 4-5870 | 0.429 | 161.4 | 8.4 | 0.16 | 1.310 | 74.1 | 0.717 | 3.163 | 38.4 | 190.2 | --- | 5.430 | 1.16 | 0.259 | 66.7 | 28.1 | 2.7 | 0.215 |
| 4-4630 | 4-5890 | 0.423 | 162.3 | 7.8 | 0.08 | 1.310 | 74.5 | 0.716 | 3.173 | 37.4 | 190.8 | --- | 5.447 | 1.23 | 0.262 | 65.6 | 28.3 | 2.8 | 0.217 |
| 4-4630 | 4-5910 | 0.417 | 163.3 | 7.1 | -0.00 | 1.311 | 75.0 | 0.716 | 3.185 | 36.3 | 191.4 | --- | 5.464 | 1.31 | 0.265 | 64.7 | 28.7 | 2.9 | 0.219 |
| 4-4630 | 4-5930 | 0.411 | 164.2 | 6.4 | -0.10 | 1.311 | 75.4 | 0.715 | 3.196 | 35.2 | 191.9 | --- | 5.482 | 1.39 | 0.268 | 63.7 | 29.1 | 3.0 | 0.221 |
| 4-4630 | 4-5950 | 0.405 | 165.2 | 5.6 | -0.21 | 1.311 | 75.9 | 0.715 | 3.208 | 34.1 | 192.5 | --- | 5.501 | 1.50 | 0.271 | 62.8 | 29.5 | 3.1 | 0.223 |
| 4-4630 | 4-5970 | 0.399 | 166.2 | 4.7 | -0.33 | 1.312 | 76.3 | 0.715 | 3.219 | 33.0 | 193.1 | --- | 5.521 | 1.61 | 0.274 | 62.0 | 30.0 | 3.3 | 0.225 |
| 4-4630 | 4-5990 | 0.393 | 167.2 | 3.8 | -0.48 | 1.312 | 76.8 | 0.714 | 3.232 | 31.9 | 193.6 | --- | 5.540 | 1.76 | 0.277 | 61.2 | 30.6 | 3.4 | 0.227 |
| 4-4630 | 4-6010 | 0.388 | 168.2 | 2.7 | -0.67 | 1.313 | 77.3 | 0.714 | 3.244 | 30.7 | 194.1 | --- | 5.561 | 1.93 | 0.280 | 60.4 | 31.2 | 3.6 | 0.229 |
| 4-4630 | 4-6030 | 0.382 | 169.2 | 1.4 | -0.89 | 1.313 | 77.7 | 0.714 | 3.257 | 29.6 | 194.7 | --- | 5.582 | 2.14 | 0.283 | 59.7 | 31.8 | 3.9 | 0.232 |
| 4-4630 | 4-6050 | 0.377 | 170.1 | -0.0 | -1.16 | 1.314 | 78.2 | 0.714 | 3.269 | 28.4 | 195.2 | --- | 5.603 | 2.41 | 0.286 | 59.0 | 32.5 | 4.2 | 0.234 |
| 4-4630 | 4-6070 | 0.372 | 171.0 | -1.8 | -1.52 | 1.314 | 78.7 | 0.714 | 3.282 | 27.2 | 195.7 | --- | 5.625 | 2.76 | 0.290 | 58.3 | 33.2 | 4.6 | 0.236 |
| 4-4630 | 4-6090 | 0.367 | 171.6 | -4.0 | -2.00 | 1.315 | 79.2 | 0.714 | 3.295 | 26.0 | 196.2 | --- | 5.648 | 3.23 | 0.293 | 57.7 | 34.0 | 5.1 | 0.239 |
| 4-4630 | 4-6110 | 0.364 | 172.1 | -7.0 | -2.67 | 1.315 | 79.7 | 0.714 | 3.309 | 24.8 | 196.6 | --- | 5.670 | 3.90 | 0.296 | 57.1 | 34.8 | 5.8 | 0.242 |
| 4-4630 | 4-6130 | 0.363 | 171.9 | -11.1 | -3.71 | 1.315 | 80.2 | 0.714 | 3.322 | 23.5 | 197.1 | --- | 5.694 | 4.92 | 0.298 | 56.5 | 35.7 | 6.8 | 0.245 |
| 4-4630 | 4-6150 | 0.367 | 170.5 | -17.5 | -5.49 | 1.316 | 80.7 | 0.714 | 3.336 | 22.3 | 197.6 | --- | 5.717 | 6.70 | 0.301 | 56.0 | 36.6 | 8.6 | 0.248 |
| 4-4630 | 4-6170 | 0.392 | 165.1 | -29.1 | -9.28 | 1.316 | 81.2 | 0.714 | 3.349 | 21.1 | 198.0 | --- | 5.741 | 10.48 | 0.304 | 55.4 | 37.7 | 12.2 | 0.255 |
| 4-4630 | 4-6190 | 0.563 | 137.6 | -51.5 | -22.48 | 1.317 | 81.7 | 0.714 | 3.363 | 19.9 | 198.5 | --- | 5.766 | 23.67 | 0.307 | 54.9 | 40.5 | 22.7 | 0.285 |
| 4-4630 | 4-6210 | 1.041 | 288.3 | 79.7 | 50.69 | 1.317 | 82.4 | 0.715 | 3.377 | 18.2 | 198.9 | --- | 5.789 | -49.51 | 0.310 | 54.4 | 50.6 | -28.1 | 0.378 |
| 4-4630 | 4-6230 | 0.451 | 207.0 | 43.5 | 15.22 | 1.318 | 82.9 | 0.715 | 3.391 | 17.1 | 199.4 | --- | 5.815 | -14.05 | 0.313 | 53.9 | 42.1 | -11.2 | 0.268 |
| 4-4640 | 4-5000 | 0.771 | 154.2 | 12.9 | 1.29 | 1.440 | 58.7 | 1.0332 | 2.005 | 61.6 | 135.0 | --- | --- | 0.78 | 0.642 | 159.7 | 54.3 | 2.8 | 0.639 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4640 | 4-5020 | 0.758 | 153.0 | 13.3 | 1.27 | 1.420 | 58.6 | 0.991 | 83.637 | 63.2 | 138.1 | --- | --- | 0.78 | 0.596 | 158.4 | 54.0 | 2.8 | 0.595 |
| 4-4640 | 4-5040 | 0.747 | 152.1 | 13.6 | 1.25 | 1.403 | 58.5 | 0.957 | 16.669 | 64.6 | 141.0 | --- | --- | 0.77 | 0.555 | 157.0 | 53.8 | 2.8 | 0.555 |
| 4-4640 | 4-5060 | 0.738 | 151.2 | 13.9 | 1.23 | 1.389 | 58.4 | 0.929 | 9.961 | 65.9 | 143.8 | --- | --- | 0.77 | 0.517 | 155.5 | 53.5 | 2.8 | 0.519 |
| 4-4640 | 4-5080 | 0.730 | 150.5 | 14.1 | 1.21 | 1.376 | 58.4 | 0.906 | 7.432 | 66.9 | 146.4 | --- | --- | 0.76 | 0.483 | 153.9 | 53.1 | 2.8 | 0.487 |
| 4-4640 | 4-5100 | 0.722 | 150.0 | 14.3 | 1.19 | 1.366 | 58.4 | 0.886 | 6.115 | 67.8 | 148.8 | --- | --- | 0.76 | 0.452 | 152.2 | 52.6 | 2.8 | 0.458 |
| 4-4640 | 4-5120 | 0.716 | 149.5 | 14.4 | 1.17 | 1.357 | 58.4 | 0.869 | 5.313 | 68.6 | 151.1 | --- | --- | 0.76 | 0.424 | 150.4 | 52.1 | 2.8 | 0.432 |
| 4-4640 | 4-5140 | 0.709 | 149.1 | 14.5 | 1.15 | 1.349 | 58.5 | 0.855 | 4.777 | 69.2 | 153.2 | --- | --- | 0.75 | 0.399 | 148.4 | 51.6 | 2.8 | 0.408 |
| 4-4640 | 4-5160 | 0.703 | 148.8 | 14.6 | 1.13 | 1.342 | 58.6 | 0.843 | 4.397 | 69.7 | 155.2 | --- | --- | 0.75 | 0.376 | 146.4 | 51.0 | 2.8 | 0.386 |
| 4-4640 | 4-5180 | 0.698 | 148.5 | 14.7 | 1.11 | 1.336 | 58.7 | 0.832 | 4.116 | 70.0 | 157.1 | --- | --- | 0.75 | 0.355 | 144.2 | 50.3 | 2.8 | 0.366 |
| 4-4640 | 4-5200 | 0.692 | 148.4 | 14.7 | 1.09 | 1.331 | 58.8 | 0.823 | 3.902 | 70.2 | 158.9 | --- | --- | 0.75 | 0.336 | 141.9 | 49.5 | 2.8 | 0.348 |
| 4-4640 | 4-5220 | 0.687 | 148.3 | 14.7 | 1.07 | 1.327 | 58.9 | 0.815 | 3.734 | 70.4 | 160.5 | --- | --- | 0.75 | 0.319 | 139.5 | 48.7 | 2.8 | 0.332 |
| 4-4640 | 4-5240 | 0.682 | 148.3 | 14.7 | 1.05 | 1.323 | 59.1 | 0.808 | 3.601 | 70.4 | 162.1 | --- | --- | 0.75 | 0.303 | 137.0 | 47.8 | 2.8 | 0.317 |
| 4-4640 | 4-5260 | 0.677 | 148.3 | 14.7 | 1.03 | 1.320 | 59.3 | 0.801 | 3.494 | 70.4 | 163.6 | --- | --- | 0.75 | 0.289 | 134.4 | 46.9 | 2.8 | 0.303 |
| 4-4640 | 4-5280 | 0.672 | 148.3 | 14.6 | 1.01 | 1.317 | 59.5 | 0.796 | 3.407 | 70.3 | 165.0 | --- | --- | 0.75 | 0.277 | 131.6 | 45.9 | 2.7 | 0.291 |
| 4-4640 | 4-5300 | 0.666 | 148.4 | 14.6 | 0.99 | 1.315 | 59.7 | 0.790 | 3.336 | 70.1 | 166.3 | --- | --- | 0.76 | 0.266 | 128.8 | 44.9 | 2.7 | 0.280 |
| 4-4640 | 4-5320 | 0.661 | 148.6 | 14.5 | 0.96 | 1.313 | 59.9 | 0.786 | 3.277 | 69.8 | 167.6 | --- | --- | 0.76 | 0.256 | 125.9 | 43.8 | 2.7 | 0.270 |
| 4-4640 | 4-5340 | 0.656 | 148.7 | 14.4 | 0.94 | 1.311 | 60.1 | 0.782 | 3.228 | 69.5 | 168.9 | --- | --- | 0.76 | 0.248 | 122.9 | 42.8 | 2.7 | 0.261 |
| 4-4640 | 4-5360 | 0.651 | 149.0 | 14.3 | 0.92 | 1.310 | 60.4 | 0.778 | 3.188 | 69.1 | 170.0 | --- | --- | 0.76 | 0.241 | 119.9 | 41.7 | 2.7 | 0.253 |
| 4-4640 | 4-5380 | 0.645 | 149.2 | 14.2 | 0.90 | 1.308 | 60.6 | 0.774 | 3.155 | 68.7 | 171.1 | --- | --- | 0.77 | 0.234 | 116.9 | 40.5 | 2.6 | 0.246 |
| 4-4640 | 4-5400 | 0.640 | 149.5 | 14.1 | 0.88 | 1.307 | 60.9 | 0.771 | 3.128 | 68.2 | 172.2 | --- | --- | 0.77 | 0.229 | 113.8 | 39.4 | 2.6 | 0.240 |
| 4-4640 | 4-5420 | 0.634 | 149.8 | 14.0 | 0.86 | 1.306 | 61.2 | 0.768 | 3.105 | 67.7 | 173.3 | --- | --- | 0.78 | 0.225 | 110.8 | 38.3 | 2.6 | 0.235 |
| 4-4640 | 4-5440 | 0.629 | 150.1 | 13.8 | 0.84 | 1.306 | 61.5 | 0.765 | 3.087 | 67.1 | 174.3 | --- | --- | 0.79 | 0.222 | 107.8 | 37.2 | 2.6 | 0.230 |
| 4-4640 | 4-5460 | 0.623 | 150.5 | 13.7 | 0.81 | 1.305 | 61.8 | 0.763 | 3.073 | 66.5 | 175.2 | --- | --- | 0.79 | 0.219 | 104.8 | 36.1 | 2.6 | 0.226 |
| 4-4640 | 4-5480 | 0.617 | 150.9 | 13.5 | 0.79 | 1.305 | 62.1 | 0.760 | 3.062 | 65.9 | 176.1 | --- | --- | 0.80 | 0.217 | 101.9 | 35.1 | 2.5 | 0.222 |
| 4-4640 | 4-5500 | 0.611 | 151.3 | 13.3 | 0.77 | 1.304 | 62.4 | 0.758 | 3.053 | 65.2 | 177.0 | --- | --- | 0.81 | 0.216 | 99.1 | 34.1 | 2.5 | 0.219 |
| 4-4640 | 4-5520 | 0.605 | 151.7 | 13.1 | 0.74 | 1.304 | 62.8 | 0.756 | 3.047 | 64.5 | 177.9 | --- | --- | 0.82 | 0.215 | 96.4 | 33.1 | 2.5 | 0.217 |
| 4-4640 | 4-5540 | 0.599 | 152.1 | 12.9 | 0.72 | 1.304 | 63.1 | 0.754 | 3.043 | 63.8 | 178.8 | --- | --- | 0.83 | 0.215 | 93.8 | 32.2 | 2.5 | 0.215 |
| 4-4640 | 4-5560 | 0.593 | 152.6 | 12.7 | 0.69 | 1.304 | 63.5 | 0.752 | 3.041 | 63.0 | 179.6 | --- | --- | 0.84 | 0.216 | 91.3 | 31.4 | 2.5 | 0.213 |
| 4-4640 | 4-5580 | 0.587 | 153.1 | 12.5 | 0.67 | 1.304 | 63.8 | 0.750 | 3.041 | 62.2 | 180.4 | --- | 5.321 | 0.85 | 0.217 | 88.8 | 30.6 | 2.4 | 0.212 |
| 4-4640 | 4-5600 | 0.581 | 153.6 | 12.3 | 0.64 | 1.304 | 64.2 | 0.748 | 3.042 | 61.4 | 181.2 | --- | 5.318 | 0.86 | 0.218 | 86.5 | 29.9 | 2.4 | 0.211 |
| 4-4640 | 4-5620 | 0.575 | 154.1 | 12.1 | 0.61 | 1.304 | 64.6 | 0.747 | 3.044 | 60.6 | 181.9 | --- | 5.317 | 0.88 | 0.220 | 84.4 | 29.3 | 2.4 | 0.211 |
| 4-4640 | 4-5640 | 0.568 | 154.7 | 11.8 | 0.58 | 1.304 | 64.9 | 0.745 | 3.048 | 59.7 | 182.7 | --- | 5.318 | 0.89 | 0.222 | 82.3 | 28.8 | 2.4 | 0.210 |
| 4-4640 | 4-5660 | 0.562 | 155.2 | 11.6 | 0.55 | 1.304 | 65.3 | 0.743 | 3.052 | 58.8 | 183.4 | --- | 5.322 | 0.91 | 0.224 | 80.3 | 28.3 | 2.4 | 0.210 |
| 4-4640 | 4-5680 | 0.556 | 155.8 | 11.3 | 0.52 | 1.304 | 65.7 | 0.742 | 3.058 | 57.9 | 184.1 | --- | 5.327 | 0.93 | 0.226 | 78.5 | 27.9 | 2.4 | 0.211 |
| 4-4640 | 4-5700 | 0.549 | 156.4 | 11.0 | 0.49 | 1.305 | 66.1 | 0.741 | 3.064 | 57.0 | 184.8 | --- | 5.334 | 0.95 | 0.229 | 76.7 | 27.6 | 2.4 | 0.211 |
| 4-4640 | 4-5720 | 0.543 | 157.1 | 10.7 | 0.45 | 1.305 | 66.5 | 0.739 | 3.071 | 56.1 | 185.5 | --- | 5.342 | 0.97 | 0.232 | 75.1 | 27.3 | 2.4 | 0.212 |
| 4-4640 | 4-5740 | 0.536 | 157.7 | 10.3 | 0.42 | 1.305 | 66.9 | 0.738 | 3.079 | 55.1 | 186.1 | --- | 5.352 | 0.99 | 0.234 | 73.5 | 27.1 | 2.5 | 0.213 |
| 4-4640 | 4-5760 | 0.529 | 158.4 | 10.0 | 0.38 | 1.306 | 67.4 | 0.737 | 3.088 | 54.1 | 186.8 | --- | 5.363 | 1.02 | 0.237 | 72.1 | 27.0 | 2.5 | 0.214 |
| 4-4640 | 4-5780 | 0.523 | 159.1 | 9.6 | 0.34 | 1.306 | 67.8 | 0.736 | 3.097 | 53.2 | 187.4 | --- | 5.375 | 1.05 | 0.240 | 70.7 | 27.0 | 2.5 | 0.215 |
| 4-4640 | 4-5800 | 0.516 | 159.8 | 9.3 | 0.29 | 1.306 | 68.2 | 0.735 | 3.106 | 52.1 | 188.0 | --- | 5.388 | 1.08 | 0.244 | 69.4 | 27.1 | 2.5 | 0.216 |
| 4-4640 | 4-5820 | 0.509 | 160.5 | 8.9 | 0.25 | 1.307 | 68.6 | 0.734 | 3.117 | 51.1 | 188.6 | --- | 5.403 | 1.11 | 0.247 | 68.2 | 27.2 | 2.6 | 0.218 |
| 4-4640 | 4-5840 | 0.502 | 161.2 | 8.5 | 0.20 | 1.307 | 69.1 | 0.732 | 3.127 | 50.1 | 189.2 | --- | 5.418 | 1.15 | 0.250 | 67.0 | 27.3 | 2.6 | 0.219 |
| 4-4640 | 4-5860 | 0.495 | 162.0 | 8.0 | 0.15 | 1.308 | 69.5 | 0.732 | 3.138 | 49.0 | 189.8 | --- | 5.434 | 1.19 | 0.253 | 65.9 | 27.6 | 2.7 | 0.221 |
| 4-4640 | 4-5880 | 0.489 | 162.8 | 7.6 | 0.09 | 1.308 | 70.0 | 0.731 | 3.149 | 48.0 | 190.4 | --- | 5.450 | 1.23 | 0.257 | 64.9 | 27.9 | 2.7 | 0.223 |
| 4-4640 | 4-5900 | 0.482 | 163.6 | 7.1 | 0.03 | 1.309 | 70.4 | 0.730 | 3.161 | 46.9 | 191.0 | --- | 5.468 | 1.28 | 0.260 | 63.9 | 28.2 | 2.8 | 0.224 |
| 4-4640 | 4-5920 | 0.475 | 164.4 | 6.5 | -0.03 | 1.309 | 70.9 | 0.729 | 3.173 | 45.8 | 191.5 | --- | 5.485 | 1.33 | 0.263 | 63.0 | 28.6 | 2.9 | 0.226 |
| 4-4640 | 4-5940 | 0.468 | 165.3 | 6.0 | -0.11 | 1.309 | 71.4 | 0.728 | 3.185 | 44.7 | 192.1 | --- | 5.504 | 1.39 | 0.266 | 62.1 | 29.1 | 2.9 | 0.228 |
| 4-4640 | 4-5960 | 0.461 | 166.1 | 5.4 | -0.18 | 1.310 | 71.8 | 0.727 | 3.197 | 43.6 | 192.6 | --- | 5.523 | 1.46 | 0.270 | 61.3 | 29.6 | 3.0 | 0.230 |
| 4-4640 | 4-5980 | 0.454 | 167.0 | 4.8 | -0.27 | 1.310 | 72.3 | 0.727 | 3.210 | 42.4 | 193.2 | --- | 5.543 | 1.54 | 0.273 | 60.5 | 30.2 | 3.1 | 0.232 |
| 4-4640 | 4-6000 | 0.447 | 167.9 | 4.1 | -0.37 | 1.311 | 72.8 | 0.726 | 3.223 | 41.3 | 193.7 | --- | 5.563 | 1.62 | 0.276 | 59.7 | 30.8 | 3.2 | 0.234 |
| 4-4640 | 4-6020 | 0.441 | 168.8 | 3.3 | -0.48 | 1.311 | 73.3 | 0.725 | 3.236 | 40.1 | 194.2 | --- | 5.584 | 1.72 | 0.279 | 59.0 | 31.4 | 3.3 | 0.236 |
| 4-4640 | 4-6040 | 0.434 | 169.8 | 2.5 | -0.60 | 1.312 | 73.8 | 0.725 | 3.249 | 38.9 | 194.7 | --- | 5.605 | 1.83 | 0.283 | 58.4 | 32.1 | 3.5 | 0.238 |
| 4-4640 | 4-6060 | 0.427 | 170.7 | 1.6 | -0.74 | 1.312 | 74.3 | 0.724 | 3.263 | 37.7 | 195.2 | --- | 5.626 | 1.96 | 0.286 | 57.7 | 32.8 | 3.6 | 0.240 |
| 4-4640 | 4-6080 | 0.421 | 171.6 | 0.6 | -0.91 | 1.313 | 74.8 | 0.724 | 3.276 | 36.5 | 195.7 | --- | 5.648 | 2.11 | 0.289 | 57.1 | 33.6 | 3.8 | 0.242 |
| 4-4640 | 4-6100 | 0.414 | 172.6 | -0.4 | -1.10 | 1.313 | 75.3 | 0.724 | 3.290 | 35.3 | 196.2 | --- | 5.671 | 2.29 | 0.292 | 56.5 | 34.4 | 4.0 | 0.244 |
| 4-4640 | 4-6120 | 0.408 | 173.5 | -1.7 | -1.32 | 1.314 | 75.8 | 0.723 | 3.304 | 34.1 | 196.7 | --- | 5.693 | 2.51 | 0.295 | 56.0 | 35.3 | 4.3 | 0.247 |
| 4-4640 | 4-6140 | 0.402 | 174.4 | -3.1 | -1.60 | 1.314 | 76.3 | 0.723 | 3.318 | 32.9 | 197.1 | --- | 5.716 | 2.77 | 0.298 | 55.4 | 36.2 | 4.5 | 0.249 |
| 4-4640 | 4-6160 | 0.396 | 175.2 | -4.8 | -1.94 | 1.315 | 76.8 | 0.723 | 3.332 | 31.6 | 197.6 | --- | 5.740 | 3.10 | 0.301 | 54.9 | 37.1 | 4.9 | 0.251 |
| 4-4640 | 4-6180 | 0.391 | 175.9 | -6.8 | -2.38 | 1.315 | 77.3 | 0.722 | 3.346 | 30.3 | 198.0 | --- | 5.763 | 3.53 | 0.304 | 54.5 | 38.0 | 5.3 | 0.254 |
| 4-4640 | 4-6200 | 0.386 | 176.4 | -9.3 | -2.96 | 1.316 | 77.9 | 0.722 | 3.361 | 29.1 | 198.5 | --- | 5.787 | 4.09 | 0.307 | 54.0 | 39.0 | 5.9 | 0.256 |
| 4-4640 | 4-6220 | 0.383 | 176.6 | -12.5 | -3.76 | 1.316 | 78.4 | 0.722 | 3.375 | 27.8 | 198.9 | --- | 5.812 | 4.88 | 0.310 | 53.5 | 40.0 | 6.7 | 0.259 |
| 4-4640 | 4-6240 | 0.383 | 176.2 | -16.9 | -4.95 | 1.317 | 78.9 | 0.722 | 3.389 | 26.5 | 199.4 | --- | .836 | 6.06 | 0.313 | 53.1 | 41.1 | 7.8 | 0.262 |
| 4-4650 | 4-5010 | 0.880 | 154.9 | 12.3 | 1.37 | 1.427 | 51.7 | 1.007 | 82.365 | 76.3 | 140.3 | --- | --- | 1.03 | 0.616 | 160.7 | 52.7 | 2.8 | 0.626 |
| 4-4650 | 4-5030 | 0.866 | 154.1 | 12.6 | 1.34 | 1.408 | 51.7 | 0.975 | 23.958 | 77.7 | 143.2 | --- | --- | 1.02 | 0.571 | 159.4 | 52.4 | 2.8 | 0.583 |
| 4-4650 | 4-5050 | 0.853 | 153.4 | 12.8 | 1.31 | 1.392 | 51.8 | 0.948 | 11.524 | 78.9 | 145.9 | --- | --- | 1.01 | 0.530 | 158.0 | 52.0 | 2.8 | 0.545 |
| 4-4650 | 4-5070 | 0.842 | 152.9 | 12.9 | 1.28 | 1.379 | 51.9 | 0.926 | 8.027 | 79.9 | 148.4 | --- | --- | 1.00 | 0.493 | 156.4 | 51.6 | 2.8 | 0.510 |
| 4-4650 | 4-5090 | 0.832 | 152.4 | 13.1 | 1.26 | 1.367 | 52.0 | 0.907 | 6.390 | 80.7 | 150.8 | --- | --- | 0.99 | 0.460 | 154.8 | 51.1 | 2.8 | 0.479 |
| 4-4650 | 4-5110 | 0.823 | 152.1 | 13.2 | 1.23 | 1.357 | 52.2 | 0.891 | 5.449 | 81.3 | 152.9 | --- | --- | 0.98 | 0.430 | 153.0 | 50.6 | 2.8 | 0.451 |
| 4-4650 | 4-5130 | 0.815 | 151.8 | 13.3 | 1.20 | 1.349 | 52.3 | 0.878 | 4.842 | 81.8 | 155.0 | --- | --- | 0.97 | 0.402 | 151.1 | 50.0 | 2.8 | 0.426 |
| 4-4650 | 4-5150 | 0.807 | 151.6 | 13.3 | 1.17 | 1.341 | 52.5 | 0.866 | 4.423 | 82.2 | 156.9 | --- | --- | 0.96 | 0.377 | 149.1 | 49.3 | 2.8 | 0.403 |
| 4-4650 | 4-5170 | 0.800 | 151.5 | 13.3 | 1.15 | 1.335 | 52.7 | 0.856 | 4.118 | 82.4 | 158.6 | --- | --- | 0.95 | 0.355 | 147.0 | 48.6 | 2.8 | 0.382 |
| 4-4650 | 4-5190 | 0.793 | 151.4 | 13.3 | 1.12 | 1.330 | 52.9 | 0.847 | 3.888 | 82.6 | 160.3 | --- | --- | 0.95 | 0.334 | 144.7 | 47.8 | 2.8 | 0.363 |
| 4-4650 | 4-5210 | 0.786 | 151.4 | 13.3 | 1.10 | 1.325 | 53.1 | 0.840 | 3.711 | 82.6 | 161.8 | --- | --- | 0.94 | 0.316 | 142.3 | 47.0 | 2.8 | 0.346 |
| 4-4650 | 4-5230 | 0.780 | 151.4 | 13.3 | 1.07 | 1.321 | 53.3 | 0.833 | 3.571 | 82.5 | 163.3 | --- | --- | 0.94 | 0.299 | 139.8 | 46.1 | 2.8 | 0.331 |
| 4-4650 | 4-5250 | 0.773 | 151.4 | 13.2 | 1.04 | 1.318 | 53.6 | 0.827 | 3.460 | 82.4 | 164.7 | --- | --- | 0.93 | 0.284 | 137.1 | 45.1 | 2.7 | 0.317 |
| 4-4650 | 4-5270 | 0.767 | 151.5 | 13.2 | 1.02 | 1.315 | 53.8 | 0.821 | 3.370 | 82.2 | 166.0 | --- | --- | 0.93 | 0.271 | 134.3 | 44.2 | 2.7 | 0.304 |
| 4-4650 | 4-5290 | 0.760 | 151.7 | 13.1 | 0.99 | 1.312 | 54.1 | 0.816 | 3.297 | 81.9 | 167.3 | --- | --- | 0.93 | 0.259 | 131.4 | 43.1 | 2.7 | 0.293 |
| 4-4650 | 4-5310 | 0.754 | 151.9 | 13.0 | 0.97 | 1.310 | 54.4 | 0.811 | 3.236 | 81.5 | 168.5 | --- | --- | 0.93 | 0.248 | 128.3 | 42.1 | 2.7 | 0.282 |
| 4-4650 | 4-5330 | 0.748 | 152.1 | 12.9 | 0.94 | 1.308 | 54.7 | 0.807 | 3.187 | 81.1 | 169.6 | --- | --- | 0.93 | 0.239 | 125.2 | 41.0 | 2.7 | 0.273 |
| 4-4650 | 4-5350 | 0.741 | 152.3 | 12.8 | 0.92 | 1.307 | 55.0 | 0.803 | 3.147 | 80.7 | 170.7 | --- | --- | 0.93 | 0.231 | 122.0 | 39.9 | 2.7 | 0.265 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4650 | 4-5370 | 0.735 | 152.5 | 12.7 | 0.89 | 1.305 | 55.3 | 0.800 | 3.113 | 80.2 | 171.8 | --- | --- | 0.93 | 0.225 | 118.8 | 38.8 | 2.6 | 0.258 |
| 4-4650 | 4-5390 | 0.729 | 152.8 | 12.6 | 0.87 | 1.304 | 55.6 | 0.796 | 3.086 | 79.6 | 172.8 | --- | --- | 0.93 | 0.219 | 115.5 | 37.8 | 2.6 | 0.251 |
| 4-4650 | 4-5410 | 0.722 | 153.1 | 12.4 | 0.84 | 1.303 | 55.9 | 0.793 | 3.064 | 79.0 | 173.7 | --- | --- | 0.93 | 0.215 | 112.3 | 36.7 | 2.6 | 0.246 |
| 4-4650 | 4-5430 | 0.716 | 153.5 | 12.3 | 0.82 | 1.303 | 56.3 | 0.790 | 3.046 | 78.4 | 174.7 | --- | --- | 0.93 | 0.211 | 109.0 | 35.6 | 2.6 | 0.241 |
| 4-4650 | 4-5450 | 0.709 | 153.8 | 12.1 | 0.79 | 1.302 | 56.6 | 0.787 | 3.032 | 77.7 | 175.5 | --- | --- | 0.94 | 0.208 | 105.8 | 34.6 | 2.5 | 0.236 |
| 4-4650 | 4-5470 | 0.703 | 154.2 | 12.0 | 0.77 | 1.302 | 57.0 | 0.785 | 3.021 | 77.0 | 176.4 | --- | --- | 0.94 | 0.206 | 102.7 | 33.6 | 2.5 | 0.233 |
| 4-4650 | 4-5490 | 0.696 | 154.5 | 11.8 | 0.74 | 1.301 | 57.3 | 0.782 | 3.013 | 76.3 | 177.3 | --- | --- | 0.94 | 0.205 | 99.7 | 32.7 | 2.5 | 0.230 |
| 4-4650 | 4-5510 | 0.689 | 154.9 | 11.6 | 0.71 | 1.301 | 57.7 | 0.780 | 3.008 | 75.6 | 178.1 | --- | --- | 0.95 | 0.205 | 96.7 | 31.8 | 2.5 | 0.227 |
| 4-4650 | 4-5530 | 0.683 | 155.4 | 11.4 | 0.69 | 1.301 | 58.1 | 0.777 | 3.005 | 74.8 | 178.9 | --- | --- | 0.96 | 0.205 | 93.9 | 31.0 | 2.4 | 0.225 |
| 4-4650 | 4-5550 | 0.676 | 155.8 | 11.2 | 0.66 | 1.301 | 58.5 | 0.775 | 3.003 | 74.0 | 179.6 | --- | --- | 0.96 | 0.205 | 91.2 | 30.2 | 2.4 | 0.223 |
| 4-4650 | 4-5570 | 0.669 | 156.2 | 11.0 | 0.63 | 1.301 | 58.9 | 0.773 | 3.003 | 73.1 | 180.4 | --- | 5.324 | 0.97 | 0.207 | 88.6 | 29.5 | 2.4 | 0.222 |
| 4-4650 | 4-5590 | 0.662 | 156.7 | 10.8 | 0.60 | 1.301 | 59.3 | 0.771 | 3.005 | 72.3 | 181.1 | --- | 5.321 | 0.98 | 0.208 | 86.2 | 28.8 | 2.4 | 0.221 |
| 4-4650 | 4-5610 | 0.655 | 157.2 | 10.6 | 0.57 | 1.301 | 59.7 | 0.769 | 3.008 | 71.4 | 181.9 | --- | 5.321 | 0.99 | 0.210 | 83.9 | 28.3 | 2.4 | 0.220 |
| 4-4650 | 4-5630 | 0.648 | 157.7 | 10.4 | 0.54 | 1.301 | 60.1 | 0.767 | 3.012 | 70.5 | 182.6 | --- | 5.322 | 1.00 | 0.212 | 81.7 | 27.8 | 2.4 | 0.220 |
| 4-4650 | 4-5650 | 0.641 | 158.2 | 10.1 | 0.51 | 1.301 | 60.5 | 0.765 | 3.017 | 69.6 | 183.2 | --- | 5.326 | 1.01 | 0.215 | 79.6 | 27.4 | 2.4 | 0.220 |
| 4-4650 | 4-5670 | 0.634 | 158.7 | 9.9 | 0.48 | 1.302 | 60.9 | 0.763 | 3.023 | 68.7 | 183.9 | --- | 5.331 | 1.02 | 0.217 | 77.7 | 27.0 | 2.4 | 0.220 |
| 4-4650 | 4-5690 | 0.627 | 159.3 | 9.6 | 0.45 | 1.302 | 61.3 | 0.762 | 3.030 | 67.7 | 184.6 | --- | 5.338 | 1.04 | 0.220 | 75.9 | 26.8 | 2.4 | 0.220 |
| 4-4650 | 4-5710 | 0.620 | 159.8 | 9.3 | 0.42 | 1.302 | 61.8 | 0.760 | 3.038 | 66.8 | 185.2 | --- | 5.347 | 1.05 | 0.223 | 74.1 | 26.6 | 2.4 | 0.221 |
| 4-4650 | 4-5730 | 0.613 | 160.4 | 9.1 | 0.38 | 1.303 | 62.2 | 0.758 | 3.047 | 65.8 | 185.8 | --- | 5.357 | 1.07 | 0.226 | 72.5 | 26.4 | 2.4 | 0.222 |
| 4-4650 | 4-5750 | 0.605 | 161.0 | 8.8 | 0.35 | 1.303 | 62.6 | 0.757 | 3.056 | 64.8 | 186.5 | --- | 5.368 | 1.09 | 0.230 | 71.0 | 26.4 | 2.4 | 0.222 |
| 4-4650 | 4-5770 | 0.598 | 161.6 | 8.5 | 0.31 | 1.303 | 63.1 | 0.755 | 3.066 | 63.8 | 187.1 | --- | 5.381 | 1.11 | 0.233 | 69.6 | 26.4 | 2.4 | 0.223 |
| 4-4650 | 4-5790 | 0.591 | 162.2 | 8.1 | 0.27 | 1.304 | 63.5 | 0.754 | 3.076 | 62.7 | 187.7 | --- | 5.394 | 1.13 | 0.236 | 68.3 | 26.5 | 2.5 | 0.225 |
| 4-4650 | 4-5810 | 0.583 | 162.8 | 7.8 | 0.23 | 1.304 | 64.0 | 0.752 | 3.086 | 61.7 | 188.3 | --- | 5.408 | 1.15 | 0.240 | 67.1 | 26.6 | 2.5 | 0.226 |
| 4-4650 | 4-5830 | 0.576 | 163.5 | 7.5 | 0.19 | 1.305 | 64.4 | 0.751 | 3.098 | 60.6 | 188.8 | --- | 5.423 | 1.18 | 0.243 | 65.9 | 26.8 | 2.5 | 0.227 |
| 4-4650 | 4-5850 | 0.568 | 164.1 | 7.1 | 0.15 | 1.305 | 64.9 | 0.749 | 3.109 | 59.6 | 189.4 | --- | 5.439 | 1.21 | 0.247 | 64.8 | 27.1 | 2.6 | 0.229 |
| 4-4650 | 4-5870 | 0.561 | 164.8 | 6.7 | 0.10 | 1.306 | 65.4 | 0.748 | 3.121 | 58.5 | 190.0 | --- | 5.456 | 1.24 | 0.250 | 63.8 | 27.4 | 2.6 | 0.230 |
| 4-4650 | 4-5890 | 0.553 | 165.5 | 6.3 | 0.05 | 1.306 | 65.8 | 0.747 | 3.133 | 57.4 | 190.5 | --- | 5.473 | 1.27 | 0.254 | 62.8 | 27.7 | 2.7 | 0.232 |
| 4-4650 | 4-5910 | 0.546 | 166.2 | 5.9 | -0.00 | 1.307 | 66.3 | 0.746 | 3.146 | 56.3 | 191.1 | --- | 5.491 | 1.31 | 0.257 | 61.9 | 28.2 | 2.7 | 0.233 |
| 4-4650 | 4-5930 | 0.538 | 166.9 | 5.6 | -0.06 | 1.307 | 66.8 | 0.745 | 3.158 | 55.2 | 191.6 | --- | 5.510 | 1.35 | 0.261 | 61.0 | 28.6 | 2.8 | 0.235 |
| 4-4650 | 4-5950 | 0.530 | 167.7 | 5.0 | -0.11 | 1.308 | 67.3 | 0.743 | 3.171 | 54.0 | 192.1 | --- | 5.529 | 1.39 | 0.264 | 60.2 | 29.2 | 2.8 | 0.237 |
| 4-4650 | 4-5970 | 0.523 | 168.4 | 4.5 | -0.18 | 1.308 | 67.8 | 0.742 | 3.185 | 52.9 | 192.7 | --- | 5.548 | 1.44 | 0.268 | 59.4 | 29.7 | 2.9 | 0.238 |
| 4-4650 | 4-5990 | 0.515 | 169.2 | 4.0 | -0.24 | 1.309 | 68.3 | 0.741 | 3.198 | 51.7 | 193.2 | --- | 5.569 | 1.49 | 0.271 | 58.7 | 30.4 | 3.0 | 0.240 |
| 4-4650 | 4-6010 | 0.507 | 170.0 | 3.5 | -0.32 | 1.309 | 68.8 | 0.740 | 3.212 | 50.6 | 193.7 | --- | 5.589 | 1.54 | 0.275 | 58.0 | 31.0 | 3.1 | 0.242 |
| 4-4650 | 4-6030 | 0.500 | 170.8 | 2.9 | -0.40 | 1.310 | 69.3 | 0.739 | 3.226 | 49.4 | 194.2 | --- | 5.610 | 1.61 | 0.278 | 57.4 | 31.7 | 3.2 | 0.244 |
| 4-4650 | 4-6050 | 0.492 | 171.6 | 2.3 | -0.48 | 1.310 | 69.8 | 0.738 | 3.240 | 48.2 | 194.7 | --- | 5.631 | 1.68 | 0.282 | 56.8 | 32.5 | 3.3 | 0.246 |
| 4-4650 | 4-6070 | 0.485 | 172.5 | 1.7 | -0.58 | 1.311 | 70.3 | 0.737 | 3.254 | 47.0 | 195.2 | --- | 5.653 | 1.76 | 0.285 | 56.2 | 33.2 | 3.4 | 0.248 |
| 4-4650 | 4-6090 | 0.477 | 173.3 | 1.0 | -0.68 | 1.311 | 70.8 | 0.737 | 3.268 | 45.8 | 195.7 | --- | 5.675 | 1.85 | 0.288 | 55.6 | 34.0 | 3.5 | 0.250 |
| 4-4650 | 4-6110 | 0.470 | 174.2 | 0.2 | -0.79 | 1.312 | 71.3 | 0.736 | 3.282 | 44.5 | 196.1 | --- | 5.697 | 1.95 | 0.291 | 55.1 | 34.9 | 3.6 | 0.252 |
| 4-4650 | 4-6130 | 0.462 | 175.1 | -0.6 | -0.92 | 1.312 | 71.8 | 0.735 | 3.297 | 43.3 | 196.6 | --- | 5.720 | 2.06 | 0.295 | 54.6 | 35.8 | 3.7 | 0.254 |
| 4-4650 | 4-6150 | 0.455 | 176.0 | -1.5 | -1.07 | 1.313 | 72.3 | 0.734 | 3.311 | 42.1 | 197.1 | --- | 5.743 | 2.19 | 0.298 | 54.1 | 36.7 | 3.9 | 0.256 |
| 4-4650 | 4-6170 | 0.448 | 176.9 | -2.4 | -1.24 | 1.313 | 72.9 | 0.734 | 3.326 | 40.8 | 197.5 | --- | 5.766 | 2.35 | 0.301 | 53.7 | 37.6 | 4.1 | 0.258 |
| 4-4650 | 4-6190 | 0.440 | 177.8 | -3.5 | -1.43 | 1.314 | 73.4 | 0.733 | 3.341 | 39.5 | 198.0 | --- | 5.790 | 2.52 | 0.304 | 53.2 | 38.6 | 4.3 | 0.260 |
| 4-4650 | 4-6210 | 0.433 | 178.7 | -4.7 | -1.65 | 1.314 | 73.9 | 0.732 | 3.356 | 38.2 | 198.4 | --- | 5.813 | 2.73 | 0.307 | 52.8 | 39.6 | 4.5 | 0.262 |
| 4-4650 | 4-6230 | 0.427 | 179.6 | -6.0 | -1.92 | 1.315 | 74.5 | 0.732 | 3.371 | 36.9 | 198.8 | --- | 5.838 | 2.98 | 0.310 | 52.4 | 40.7 | 4.8 | 0.264 |
| 4-4650 | 4-6250 | 0.420 | 180.4 | -7.6 | -2.24 | 1.315 | 75.0 | 0.731 | 3.386 | 35.6 | 199.3 | --- | 5.862 | 3.29 | 0.313 | 52.1 | 41.7 | 5.1 | 0.266 |
| 4-4660 | 4-5020 | 0.995 | 156.8 | 11.3 | 1.50 | 1.415 | 44.6 | 0.991 | 52.683 | 91.4 | 146.1 | --- | --- | 1.31 | 0.590 | 162.2 | 50.9 | 2.8 | 0.616 |
| 4-4660 | 4-5040 | 0.979 | 156.3 | 11.5 | 1.46 | 1.397 | 44.8 | 0.966 | 14.335 | 92.5 | 148.7 | --- | --- | 1.29 | 0.546 | 160.9 | 50.5 | 2.8 | 0.574 |
| 4-4660 | 4-5060 | 0.964 | 155.8 | 11.6 | 1.42 | 1.382 | 45.0 | 0.946 | 8.921 | 93.3 | 151.1 | --- | --- | 1.27 | 0.506 | 159.4 | 50.0 | 2.8 | 0.537 |
| 4-4660 | 4-5080 | 0.951 | 155.5 | 11.7 | 1.38 | 1.369 | 45.3 | 0.929 | 6.776 | 94.0 | 153.2 | --- | --- | 1.25 | 0.469 | 157.8 | 49.5 | 2.8 | 0.504 |
| 4-4660 | 4-5100 | 0.939 | 155.3 | 11.8 | 1.34 | 1.358 | 45.5 | 0.915 | 5.635 | 94.5 | 155.3 | --- | --- | 1.23 | 0.437 | 156.2 | 48.9 | 2.8 | 0.474 |
| 4-4660 | 4-5120 | 0.928 | 155.1 | 11.8 | 1.31 | 1.348 | 45.8 | 0.903 | 4.933 | 94.8 | 157.1 | --- | --- | 1.21 | 0.407 | 154.4 | 48.2 | 2.8 | 0.447 |
| 4-4660 | 4-5140 | 0.918 | 155.0 | 11.8 | 1.27 | 1.340 | 46.1 | 0.892 | 4.462 | 95.0 | 158.9 | --- | --- | 1.20 | 0.380 | 152.4 | 47.5 | 2.8 | 0.423 |
| 4-4660 | 4-5160 | 0.909 | 154.9 | 11.8 | 1.24 | 1.334 | 46.3 | 0.883 | 4.126 | 95.1 | 160.5 | --- | --- | 1.18 | 0.355 | 150.3 | 46.8 | 2.8 | 0.401 |
| 4-4660 | 4-5180 | 0.900 | 154.9 | 11.8 | 1.20 | 1.328 | 46.6 | 0.874 | 3.878 | 95.1 | 162.0 | --- | --- | 1.17 | 0.333 | 148.1 | 46.0 | 2.7 | 0.381 |
| 4-4660 | 4-5200 | 0.891 | 155.0 | 11.8 | 1.17 | 1.323 | 46.9 | 0.867 | 3.689 | 95.0 | 163.4 | --- | --- | 1.15 | 0.313 | 145.7 | 45.1 | 2.7 | 0.363 |
| 4-4660 | 4-5220 | 0.883 | 155.0 | 11.7 | 1.14 | 1.318 | 47.2 | 0.861 | 3.541 | 94.8 | 164.8 | --- | --- | 1.14 | 0.295 | 143.1 | 44.2 | 2.7 | 0.347 |
| 4-4660 | 4-5240 | 0.875 | 155.2 | 11.6 | 1.10 | 1.315 | 47.6 | 0.855 | 3.424 | 94.6 | 166.0 | --- | --- | 1.13 | 0.279 | 140.4 | 43.3 | 2.7 | 0.333 |
| 4-4660 | 4-5260 | 0.867 | 155.3 | 11.6 | 1.07 | 1.312 | 47.9 | 0.849 | 3.331 | 94.2 | 167.2 | --- | --- | 1.12 | 0.264 | 137.6 | 42.3 | 2.7 | 0.319 |
| 4-4660 | 4-5280 | 0.859 | 155.5 | 11.5 | 1.04 | 1.309 | 48.2 | 0.844 | 3.255 | 93.8 | 168.4 | --- | --- | 1.11 | 0.251 | 134.5 | 41.3 | 2.7 | 0.308 |
| 4-4660 | 4-5300 | 0.852 | 155.7 | 11.4 | 1.01 | 1.307 | 48.6 | 0.840 | 3.193 | 93.4 | 169.5 | --- | --- | 1.11 | 0.240 | 131.4 | 40.2 | 2.7 | 0.297 |
| 4-4660 | 4-5320 | 0.844 | 155.9 | 11.3 | 0.98 | 1.305 | 48.9 | 0.836 | 3.143 | 92.9 | 170.5 | --- | --- | 1.10 | 0.230 | 128.1 | 39.2 | 2.6 | 0.287 |
| 4-4660 | 4-5340 | 0.837 | 156.2 | 11.1 | 0.95 | 1.303 | 49.3 | 0.832 | 3.102 | 92.3 | 171.5 | --- | --- | 1.09 | 0.221 | 124.7 | 38.1 | 2.6 | 0.279 |
| 4-4660 | 4-5360 | 0.829 | 156.4 | 11.0 | 0.92 | 1.302 | 49.7 | 0.828 | 3.068 | 91.7 | 172.4 | --- | --- | 1.09 | 0.214 | 121.3 | 37.1 | 2.6 | 0.271 |
| 4-4660 | 4-5380 | 0.822 | 156.7 | 10.9 | 0.89 | 1.301 | 50.1 | 0.824 | 3.041 | 91.1 | 173.4 | --- | --- | 1.08 | 0.207 | 117.7 | 36.0 | 2.6 | 0.265 |
| 4-4660 | 4-5400 | 0.814 | 157.0 | 10.7 | 0.86 | 1.300 | 50.4 | 0.821 | 3.019 | 90.4 | 174.2 | --- | --- | 1.08 | 0.202 | 114.2 | 35.0 | 2.5 | 0.259 |
| 4-4660 | 4-5420 | 0.807 | 157.4 | 10.6 | 0.83 | 1.299 | 50.8 | 0.818 | 3.001 | 89.7 | 175.1 | --- | --- | 1.08 | 0.199 | 110.7 | 34.0 | 2.5 | 0.254 |
| 4-4660 | 4-5440 | 0.800 | 157.7 | 10.4 | 0.80 | 1.298 | 51.2 | 0.815 | 2.988 | 89.0 | 175.9 | --- | --- | 1.07 | 0.196 | 107.2 | 33.0 | 2.5 | 0.249 |
| 4-4660 | 4-5460 | 0.792 | 158.1 | 10.3 | 0.77 | 1.298 | 51.6 | 0.812 | 2.977 | 88.2 | 176.7 | --- | --- | 1.07 | 0.194 | 103.7 | 32.1 | 2.5 | 0.245 |
| 4-4660 | 4-5480 | 0.785 | 158.4 | 10.1 | 0.74 | 1.298 | 52.0 | 0.809 | 2.970 | 87.4 | 177.5 | --- | --- | 1.07 | 0.192 | 100.4 | 31.2 | 2.4 | 0.242 |
| 4-4660 | 4-5500 | 0.777 | 158.8 | 9.9 | 0.71 | 1.297 | 52.5 | 0.806 | 2.965 | 86.6 | 178.3 | --- | --- | 1.07 | 0.192 | 97.2 | 30.4 | 2.4 | 0.239 |
| 4-4660 | 4-5520 | 0.770 | 159.2 | 9.7 | 0.68 | 1.297 | 52.9 | 0.804 | 2.962 | 85.8 | 179.0 | --- | --- | 1.07 | 0.192 | 94.1 | 29.6 | 2.4 | 0.237 |
| 4-4660 | 4-5540 | 0.762 | 159.6 | 9.5 | 0.65 | 1.297 | 53.3 | 0.801 | 2.961 | 84.9 | 179.7 | --- | --- | 1.08 | 0.193 | 91.1 | 28.9 | 2.4 | 0.235 |
| 4-4660 | 4-5560 | 0.755 | 160.1 | 9.3 | 0.62 | 1.297 | 53.7 | 0.799 | 2.962 | 84.0 | 180.4 | --- | 5.328 | 1.08 | 0.194 | 88.3 | 28.3 | 2.4 | 0.234 |
| 4-4660 | 4-5580 | 0.747 | 160.5 | 9.1 | 0.59 | 1.297 | 54.2 | 0.796 | 2.964 | 83.1 | 181.1 | --- | 5.325 | 1.08 | 0.196 | 85.7 | 27.7 | 2.3 | 0.233 |
| 4-4660 | 4-5600 | 0.740 | 161.0 | 8.9 | 0.56 | 1.298 | 54.6 | 0.794 | 2.968 | 82.2 | 181.8 | --- | 5.324 | 1.09 | 0.198 | 83.2 | 27.2 | 2.3 | 0.232 |
| 4-4660 | 4-5620 | 0.732 | 161.4 | 8.7 | 0.53 | 1.298 | 55.1 | 0.792 | 2.973 | 81.3 | 182.4 | --- | 5.326 | 1.09 | 0.201 | 80.8 | 26.8 | 2.3 | 0.231 |
| 4-4660 | 4-5640 | 0.724 | 161.9 | 8.5 | 0.50 | 1.298 | 55.5 | 0.790 | 2.978 | 80.3 | 183.1 | --- | 5.330 | 1.10 | 0.204 | 78.6 | 26.4 | 2.3 | 0.231 |
| 4-4660 | 4-5660 | 0.717 | 162.4 | 8.2 | 0.47 | 1.298 | 55.9 | 0.788 | 2.985 | 79.4 | 183.7 | --- | 5.336 | 1.11 | 0.207 | 76.6 | 26.1 | 2.3 | 0.231 |
| 4-4660 | 4-5680 | 0.709 | 162.9 | 8.0 | 0.44 | 1.299 | 56.4 | 0.785 | 2.993 | 78.4 | 184.3 | --- | 5.344 | 1.12 | 0.210 | 74.7 | 25.9 | 2.3 | 0.231 |
| 4-4660 | 4-5700 | 0.701 | 163.4 | 7.7 | 0.40 | 1.299 | 56.9 | 0.783 | 3.001 | 77.4 | 184.9 | --- | 5.352 | 1.13 | 0.213 | 72.9 | 25.8 | 2.3 | 0.232 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4660 | 4-5720 | 0.693 | 163.9 | 7.5 | 0.37 | 1.299 | 57.3 | 0.781 | 3.010 | 76.4 | 185.5 | --- | 5.363 | 1.14 | 0.217 | 71.2 | 25.7 | 2.3 | 0.232 |
| 4-4660 | 4-5740 | 0.685 | 164.4 | 7.2 | 0.34 | 1.300 | 57.8 | 0.780 | 3.020 | 75.3 | 186.1 | --- | 5.374 | 1.15 | 0.220 | 69.7 | 25.7 | 2.4 | 0.233 |
| 4-4660 | 4-5760 | 0.677 | 165.0 | 6.9 | 0.30 | 1.300 | 58.3 | 0.778 | 3.030 | 74.3 | 186.7 | --- | 5.387 | 1.16 | 0.224 | 68.2 | 25.7 | 2.4 | 0.234 |
| 4-4660 | 4-5780 | 0.669 | 165.5 | 6.7 | 0.26 | 1.301 | 58.7 | 0.776 | 3.041 | 73.3 | 187.3 | --- | 5.400 | 1.18 | 0.228 | 66.9 | 25.8 | 2.4 | 0.235 |
| 4-4660 | 4-5800 | 0.661 | 166.1 | 6.4 | 0.23 | 1.301 | 59.2 | 0.774 | 3.053 | 72.2 | 187.9 | --- | 5.415 | 1.19 | 0.232 | 65.6 | 26.0 | 2.4 | 0.236 |
| 4-4660 | 4-5820 | 0.653 | 166.7 | 6.1 | 0.19 | 1.302 | 59.7 | 0.772 | 3.064 | 71.1 | 188.4 | --- | 5.430 | 1.21 | 0.235 | 64.4 | 26.2 | 2.4 | 0.237 |
| 4-4660 | 4-5840 | 0.645 | 167.3 | 5.8 | 0.15 | 1.302 | 60.2 | 0.770 | 3.076 | 70.0 | 189.0 | --- | 5.446 | 1.23 | 0.239 | 63.3 | 26.5 | 2.5 | 0.238 |
| 4-4660 | 4-5860 | 0.637 | 167.9 | 5.4 | 0.11 | 1.303 | 60.7 | 0.769 | 3.089 | 68.9 | 189.5 | --- | 5.463 | 1.25 | 0.243 | 62.3 | 26.9 | 2.5 | 0.239 |
| 4-4660 | 4-5880 | 0.629 | 168.5 | 5.1 | 0.07 | 1.303 | 61.2 | 0.767 | 3.102 | 67.8 | 190.0 | --- | 5.481 | 1.27 | 0.247 | 61.3 | 27.3 | 2.5 | 0.241 |
| 4-4660 | 4-5900 | 0.621 | 169.1 | 4.7 | 0.02 | 1.304 | 61.7 | 0.765 | 3.115 | 66.7 | 190.6 | --- | 5.499 | 1.29 | 0.251 | 60.4 | 27.7 | 2.6 | 0.242 |
| 4-4660 | 4-5920 | 0.613 | 169.7 | 4.4 | -0.02 | 1.304 | 62.1 | 0.764 | 3.128 | 65.6 | 191.1 | --- | 5.518 | 1.32 | 0.254 | 59.6 | 28.2 | 2.6 | 0.244 |
| 4-4660 | 4-5940 | 0.605 | 170.4 | 4.0 | -0.07 | 1.305 | 62.7 | 0.762 | 3.142 | 64.4 | 191.6 | --- | 5.537 | 1.35 | 0.258 | 58.8 | 28.8 | 2.7 | 0.245 |
| 4-4660 | 4-5960 | 0.596 | 171.1 | 3.6 | -0.12 | 1.305 | 63.2 | 0.761 | 3.155 | 63.2 | 192.1 | --- | 5.556 | 1.38 | 0.262 | 58.0 | 29.3 | 2.7 | 0.247 |
| 4-4660 | 4-5980 | 0.588 | 171.7 | 3.2 | -0.17 | 1.306 | 63.7 | 0.759 | 3.170 | 62.1 | 192.6 | --- | 5.576 | 1.41 | 0.266 | 57.3 | 30.0 | 2.8 | 0.248 |
| 4-4660 | 4-6000 | 0.580 | 172.4 | 2.8 | -0.23 | 1.306 | 64.2 | 0.758 | 3.184 | 60.9 | 193.1 | --- | 5.597 | 1.45 | 0.269 | 56.7 | 30.6 | 2.9 | 0.250 |
| 4-4660 | 4-6020 | 0.572 | 173.1 | 2.3 | -0.29 | 1.307 | 64.7 | 0.757 | 3.198 | 59.7 | 193.6 | --- | 5.618 | 1.49 | 0.273 | 56.1 | 31.3 | 2.9 | 0.252 |
| 4-4660 | 4-6040 | 0.563 | 173.9 | 1.8 | -0.35 | 1.307 | 65.2 | 0.755 | 3.213 | 58.5 | 194.1 | --- | 5.639 | 1.53 | 0.276 | 55.5 | 32.1 | 3.0 | 0.253 |
| 4-4660 | 4-6060 | 0.555 | 174.6 | 1.4 | -0.42 | 1.308 | 65.7 | 0.754 | 3.227 | 57.3 | 194.6 | --- | 5.661 | 1.58 | 0.280 | 54.9 | 32.9 | 3.1 | 0.255 |
| 4-4660 | 4-6080 | 0.547 | 175.4 | 0.8 | -0.49 | 1.309 | 66.3 | 0.753 | 3.242 | 56.1 | 195.1 | --- | 5.682 | 1.63 | 0.283 | 54.4 | 33.7 | 3.2 | 0.257 |
| 4-4660 | 4-6100 | 0.539 | 176.1 | 0.3 | -0.57 | 1.309 | 66.8 | 0.751 | 3.257 | 54.9 | 195.5 | --- | 5.705 | 1.69 | 0.287 | 53.9 | 34.5 | 3.3 | 0.259 |
| 4-4660 | 4-6120 | 0.530 | 176.9 | -0.3 | -0.65 | 1.310 | 67.3 | 0.750 | 3.272 | 53.6 | 196.0 | --- | 5.727 | 1.76 | 0.290 | 53.4 | 35.4 | 3.4 | 0.260 |
| 4-4660 | 4-6140 | 0.522 | 177.7 | -0.9 | -0.74 | 1.310 | 67.8 | 0.749 | 3.287 | 52.4 | 196.5 | --- | 5.750 | 1.83 | 0.294 | 53.0 | 36.3 | 3.5 | 0.262 |
| 4-4660 | 4-6160 | 0.514 | 178.6 | -1.5 | -0.84 | 1.311 | 68.4 | 0.748 | 3.302 | 51.1 | 196.9 | --- | 5.773 | 1.91 | 0.297 | 52.6 | 37.3 | 3.6 | 0.264 |
| 4-4660 | 4-6180 | 0.506 | 179.4 | -2.2 | -0.94 | 1.311 | 68.9 | 0.747 | 3.318 | 49.8 | 197.4 | --- | 5.796 | 2.00 | 0.300 | 52.2 | 38.3 | 3.7 | 0.266 |
| 4-4660 | 4-6200 | 0.498 | 180.2 | -3.0 | -1.06 | 1.312 | 69.5 | 0.746 | 3.333 | 48.6 | 197.8 | --- | 5.820 | 2.10 | 0.303 | 51.8 | 39.3 | 3.8 | 0.268 |
| 4-4660 | 4-6220 | 0.489 | 181.1 | -3.7 | -1.19 | 1.312 | 70.0 | 0.745 | 3.349 | 47.3 | 198.2 | --- | 5.843 | 2.21 | 0.306 | 51.4 | 40.3 | 4.0 | 0.269 |
| 4-4660 | 4-6240 | 0.481 | 182.0 | -4.6 | -1.34 | 1.313 | 70.6 | 0.744 | 3.364 | 46.0 | 198.7 | --- | 5.867 | 2.34 | 0.309 | 51.1 | 41.3 | 4.1 | 0.271 |
| 4-4660 | 4-6260 | 0.473 | 182.8 | -5.5 | -1.50 | 1.313 | 71.1 | 0.743 | 3.380 | 44.7 | 199.1 | --- | 5.891 | 2.49 | 0.312 | 50.8 | 42.4 | 4.3 | 0.273 |
| 4-4670 | 4-5030 | 1.113 | 159.4 | 10.1 | 1.71 | 1.403 | 37.3 | 0.983 | 21.235 | 106.7 | 152.1 | --- | --- | 1.67 | 0.566 | 164.1 | 48.8 | 2.7 | 0.611 |
| 4-4670 | 4-5050 | 1.094 | 159.2 | 10.2 | 1.65 | 1.386 | 37.7 | 0.966 | 10.505 | 107.3 | 154.3 | --- | --- | 1.62 | 0.522 | 162.8 | 48.3 | 2.7 | 0.570 |
| 4-4670 | 4-5070 | 1.077 | 158.9 | 10.2 | 1.60 | 1.371 | 38.1 | 0.951 | 7.396 | 107.8 | 156.2 | --- | --- | 1.58 | 0.482 | 161.3 | 47.7 | 2.7 | 0.534 |
| 4-4670 | 4-5090 | 1.062 | 158.8 | 10.2 | 1.54 | 1.359 | 38.5 | 0.939 | 5.928 | 108.0 | 158.0 | --- | --- | 1.55 | 0.446 | 159.8 | 47.1 | 2.7 | 0.502 |
| 4-4670 | 4-5110 | 1.048 | 158.7 | 10.2 | 1.49 | 1.349 | 38.9 | 0.928 | 5.081 | 108.2 | 159.7 | --- | --- | 1.52 | 0.414 | 158.1 | 46.4 | 2.7 | 0.473 |
| 4-4670 | 4-5130 | 1.035 | 158.7 | 10.2 | 1.44 | 1.340 | 39.3 | 0.919 | 4.534 | 108.2 | 161.2 | --- | --- | 1.48 | 0.384 | 156.2 | 45.7 | 2.7 | 0.447 |
| 4-4670 | 4-5150 | 1.023 | 158.7 | 10.2 | 1.39 | 1.332 | 39.7 | 0.910 | 4.156 | 108.1 | 162.6 | --- | --- | 1.46 | 0.358 | 154.2 | 44.9 | 2.7 | 0.424 |
| 4-4670 | 4-5170 | 1.012 | 158.8 | 10.1 | 1.34 | 1.326 | 40.1 | 0.903 | 3.882 | 107.9 | 164.0 | --- | --- | 1.43 | 0.333 | 152.1 | 44.1 | 2.7 | 0.403 |
| 4-4670 | 4-5190 | 1.001 | 158.9 | 10.1 | 1.30 | 1.320 | 40.5 | 0.896 | 3.676 | 107.6 | 165.2 | --- | --- | 1.40 | 0.311 | 149.7 | 43.2 | 2.7 | 0.384 |
| 4-4670 | 4-5210 | 0.991 | 159.0 | 10.0 | 1.25 | 1.316 | 40.9 | 0.890 | 3.517 | 107.2 | 166.4 | --- | --- | 1.38 | 0.292 | 147.2 | 42.3 | 2.7 | 0.367 |
| 4-4670 | 4-5230 | 0.981 | 159.2 | 9.9 | 1.21 | 1.312 | 41.3 | 0.885 | 3.393 | 106.8 | 167.5 | --- | --- | 1.36 | 0.274 | 144.5 | 41.4 | 2.6 | 0.352 |
| 4-4670 | 4-5250 | 0.972 | 159.4 | 9.8 | 1.17 | 1.309 | 41.7 | 0.879 | 3.294 | 106.3 | 168.6 | --- | --- | 1.34 | 0.257 | 141.6 | 40.4 | 2.6 | 0.338 |
| 4-4670 | 4-5270 | 0.962 | 159.6 | 9.7 | 1.13 | 1.306 | 42.1 | 0.875 | 3.215 | 105.8 | 169.6 | --- | --- | 1.32 | 0.243 | 138.6 | 39.4 | 2.6 | 0.325 |
| 4-4670 | 4-5290 | 0.953 | 159.8 | 9.6 | 1.09 | 1.303 | 42.6 | 0.870 | 3.151 | 105.2 | 170.5 | --- | --- | 1.31 | 0.230 | 135.3 | 38.4 | 2.6 | 0.314 |
| 4-4670 | 4-5310 | 0.944 | 160.1 | 9.5 | 1.05 | 1.301 | 43.0 | 0.866 | 3.099 | 104.6 | 171.4 | --- | --- | 1.29 | 0.219 | 131.8 | 37.3 | 2.6 | 0.304 |
| 4-4670 | 4-5330 | 0.936 | 160.4 | 9.3 | 1.02 | 1.299 | 43.4 | 0.862 | 3.057 | 104.0 | 172.3 | --- | --- | 1.28 | 0.209 | 128.3 | 36.3 | 2.5 | 0.295 |
| 4-4670 | 4-5350 | 0.927 | 160.7 | 9.2 | 0.98 | 1.298 | 43.9 | 0.858 | 3.022 | 103.3 | 173.2 | --- | --- | 1.26 | 0.201 | 124.5 | 35.3 | 2.5 | 0.287 |
| 4-4670 | 4-5370 | 0.919 | 161.0 | 9.0 | 0.94 | 1.297 | 44.3 | 0.854 | 2.995 | 102.5 | 174.0 | --- | --- | 1.25 | 0.194 | 120.7 | 34.3 | 2.5 | 0.281 |
| 4-4670 | 4-5390 | 0.910 | 161.3 | 8.9 | 0.91 | 1.296 | 44.8 | 0.851 | 2.972 | 101.8 | 174.8 | --- | --- | 1.24 | 0.189 | 116.8 | 33.3 | 2.4 | 0.274 |
| 4-4670 | 4-5410 | 0.902 | 161.6 | 8.7 | 0.87 | 1.295 | 45.2 | 0.848 | 2.955 | 101.0 | 175.6 | --- | --- | 1.23 | 0.184 | 112.9 | 32.4 | 2.4 | 0.269 |
| 4-4670 | 4-5430 | 0.894 | 162.0 | 8.6 | 0.84 | 1.295 | 45.7 | 0.844 | 2.941 | 100.2 | 176.3 | --- | --- | 1.22 | 0.181 | 109.0 | 31.5 | 2.4 | 0.264 |
| 4-4670 | 4-5450 | 0.885 | 162.4 | 8.4 | 0.80 | 1.294 | 46.1 | 0.841 | 2.931 | 99.3 | 177.0 | --- | --- | 1.21 | 0.179 | 105.2 | 30.6 | 2.4 | 0.260 |
| 4-4670 | 4-5470 | 0.877 | 162.7 | 8.2 | 0.77 | 1.294 | 46.6 | 0.838 | 2.924 | 98.5 | 177.8 | --- | --- | 1.21 | 0.178 | 101.4 | 29.8 | 2.3 | 0.257 |
| 4-4670 | 4-5490 | 0.869 | 163.1 | 8.0 | 0.74 | 1.294 | 47.1 | 0.835 | 2.920 | 97.6 | 178.4 | --- | --- | 1.20 | 0.177 | 97.8 | 29.1 | 2.3 | 0.254 |
| 4-4670 | 4-5510 | 0.860 | 163.5 | 7.9 | 0.70 | 1.293 | 47.5 | 0.832 | 2.917 | 96.7 | 179.1 | --- | --- | 1.20 | 0.178 | 94.4 | 28.4 | 2.3 | 0.251 |
| 4-4670 | 4-5530 | 0.852 | 163.9 | 7.7 | 0.67 | 1.293 | 48.0 | 0.830 | 2.917 | 95.8 | 179.8 | --- | --- | 1.19 | 0.179 | 91.1 | 27.7 | 2.3 | 0.249 |
| 4-4670 | 4-5550 | 0.844 | 164.3 | 7.5 | 0.64 | 1.293 | 48.5 | 0.827 | 2.918 | 94.9 | 180.4 | --- | 5.331 | 1.19 | 0.180 | 88.0 | 27.2 | 2.3 | 0.248 |
| 4-4670 | 4-5570 | 0.836 | 164.8 | 7.3 | 0.60 | 1.294 | 48.9 | 0.824 | 2.921 | 93.9 | 181.1 | --- | 5.328 | 1.19 | 0.182 | 85.1 | 26.6 | 2.3 | 0.246 |
| 4-4670 | 4-5590 | 0.827 | 165.2 | 7.1 | 0.57 | 1.294 | 49.4 | 0.822 | 2.925 | 92.9 | 181.7 | --- | 5.328 | 1.19 | 0.185 | 82.3 | 26.2 | 2.2 | 0.245 |
| 4-4670 | 4-5610 | 0.819 | 165.6 | 6.8 | 0.54 | 1.294 | 49.9 | 0.819 | 2.930 | 92.0 | 182.3 | --- | 5.330 | 1.19 | 0.188 | 79.8 | 25.8 | 2.2 | 0.245 |
| 4-4670 | 4-5630 | 0.811 | 166.1 | 6.6 | 0.51 | 1.294 | 50.4 | 0.817 | 2.937 | 91.0 | 182.9 | --- | 5.335 | 1.19 | 0.191 | 77.4 | 25.5 | 2.2 | 0.244 |
| 4-4670 | 4-5650 | 0.802 | 166.6 | 6.4 | 0.47 | 1.295 | 50.9 | 0.814 | 2.944 | 90.0 | 183.5 | --- | 5.341 | 1.19 | 0.194 | 75.2 | 25.3 | 2.2 | 0.244 |
| 4-4670 | 4-5670 | 0.794 | 167.0 | 6.2 | 0.44 | 1.295 | 51.4 | 0.812 | 2.952 | 88.9 | 184.1 | --- | 5.349 | 1.19 | 0.198 | 73.2 | 25.1 | 2.2 | 0.244 |
| 4-4670 | 4-5690 | 0.785 | 167.5 | 5.9 | 0.40 | 1.295 | 51.8 | 0.809 | 2.961 | 87.9 | 184.6 | --- | 5.358 | 1.19 | 0.202 | 71.3 | 25.0 | 2.2 | 0.244 |
| 4-4670 | 4-5710 | 0.777 | 168.0 | 5.7 | 0.37 | 1.296 | 52.3 | 0.807 | 2.971 | 86.9 | 185.2 | --- | 5.369 | 1.20 | 0.206 | 69.6 | 25.0 | 2.2 | 0.244 |
| 4-4670 | 4-5730 | 0.769 | 168.5 | 5.4 | 0.34 | 1.296 | 52.8 | 0.805 | 2.981 | 85.8 | 185.8 | --- | 5.381 | 1.20 | 0.210 | 67.9 | 25.0 | 2.3 | 0.245 |
| 4-4670 | 4-5750 | 0.760 | 169.0 | 5.2 | 0.30 | 1.297 | 53.3 | 0.802 | 2.992 | 84.7 | 186.3 | --- | 5.394 | 1.21 | 0.214 | 66.5 | 25.1 | 2.3 | 0.246 |
| 4-4670 | 4-5770 | 0.752 | 169.5 | 4.9 | 0.27 | 1.297 | 53.8 | 0.800 | 3.004 | 83.7 | 186.9 | --- | 5.408 | 1.22 | 0.218 | 65.1 | 25.3 | 2.3 | 0.246 |
| 4-4670 | 4-5790 | 0.743 | 170.0 | 4.7 | 0.23 | 1.298 | 54.3 | 0.798 | 3.016 | 82.6 | 187.4 | --- | 5.422 | 1.23 | 0.222 | 63.8 | 25.5 | 2.3 | 0.247 |
| 4-4670 | 4-5810 | 0.734 | 170.6 | 4.4 | 0.19 | 1.298 | 54.9 | 0.796 | 3.028 | 81.5 | 187.9 | --- | 5.438 | 1.24 | 0.226 | 62.6 | 25.7 | 2.3 | 0.248 |
| 4-4670 | 4-5830 | 0.726 | 171.1 | 4.1 | 0.16 | 1.299 | 55.4 | 0.794 | 3.041 | 80.4 | 188.4 | --- | 5.454 | 1.25 | 0.230 | 61.5 | 26.0 | 2.4 | 0.249 |
| 4-4670 | 4-5850 | 0.717 | 171.6 | 3.8 | 0.12 | 1.299 | 55.9 | 0.792 | 3.054 | 79.2 | 189.0 | --- | 5.472 | 1.26 | 0.235 | 60.5 | 26.4 | 2.4 | 0.250 |
| 4-4670 | 4-5870 | 0.709 | 172.2 | 3.5 | 0.08 | 1.300 | 56.4 | 0.790 | 3.067 | 78.1 | 189.5 | --- | 5.489 | 1.27 | 0.239 | 59.5 | 26.8 | 2.4 | 0.252 |
| 4-4670 | 4-5890 | 0.700 | 172.8 | 3.2 | 0.04 | 1.300 | 56.9 | 0.788 | 3.081 | 77.0 | 190.0 | --- | 5.508 | 1.29 | 0.243 | 58.6 | 27.3 | 2.5 | 0.253 |
| 4-4670 | 4-5910 | 0.691 | 173.4 | 2.9 | -0.00 | 1.301 | 57.4 | 0.786 | 3.095 | 75.8 | 190.5 | --- | 5.527 | 1.31 | 0.247 | 57.8 | 27.8 | 2.5 | 0.254 |
| 4-4670 | 4-5930 | 0.683 | 173.9 | 2.5 | -0.04 | 1.302 | 57.9 | 0.784 | 3.109 | 74.7 | 191.0 | --- | 5.546 | 1.32 | 0.251 | 57.0 | 28.4 | 2.6 | 0.255 |
| 4-4670 | 4-5950 | 0.674 | 174.5 | 2.2 | -0.09 | 1.302 | 58.5 | 0.782 | 3.123 | 73.5 | 191.5 | --- | 5.566 | 1.34 | 0.255 | 56.3 | 29.0 | 2.6 | 0.257 |
| 4-4670 | 4-5970 | 0.665 | 175.2 | 1.9 | -0.13 | 1.303 | 59.0 | 0.780 | 3.138 | 72.3 | 192.0 | --- | 5.586 | 1.37 | 0.259 | 55.6 | 29.6 | 2.6 | 0.258 |
| 4-4670 | 4-5990 | 0.656 | 175.8 | 1.5 | -0.18 | 1.303 | 59.5 | 0.778 | 3.152 | 71.1 | 192.5 | --- | 5.606 | 1.39 | 0.263 | 55.0 | 30.3 | 2.7 | 0.260 |
| 4-4670 | 4-6010 | 0.647 | 176.4 | 1.1 | -0.23 | 1.304 | 60.1 | 0.777 | 3.167 | 69.9 | 192.9 | --- | 5.627 | 1.41 | 0.267 | 54.4 | 31.0 | 2.8 | 0.261 |
| 4-4670 | 4-6030 | 0.639 | 177.1 | 0.7 | -0.28 | 1.304 | 60.6 | 0.775 | 3.182 | 68.7 | 193.4 | --- | 5.649 | 1.44 | 0.271 | 53.8 | 31.8 | 2.8 | 0.263 |
| 4-4670 | 4-6050 | 0.630 | 177.7 | 0.3 | -0.33 | 1.305 | 61.1 | 0.773 | 3.198 | 67.5 | 193.9 | --- | 5.670 | 1.47 | 0.274 | 53.3 | 32.6 | 2.9 | 0.264 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4670 | 4-6070 | 0.621 | 178.4 | -0.1 | -0.39 | 1.306 | 61.7 | 0.772 | 3.213 | 66.3 | 194.4 | --- | 5.692 | 1.51 | 0.278 | 52.8 | 33.4 | 2.9 | 0.266 |
| 4-4670 | 4-6090 | 0.612 | 179.1 | -0.5 | -0.44 | 1.306 | 62.2 | 0.770 | 3.229 | 65.0 | 194.8 | --- | 5.714 | 1.54 | 0.282 | 52.4 | 34.2 | 3.0 | 0.267 |
| 4-4670 | 4-6110 | 0.603 | 179.8 | -1.0 | -0.50 | 1.307 | 62.8 | 0.768 | 3.244 | 63.8 | 195.3 | --- | 5.737 | 1.58 | 0.285 | 51.9 | 35.1 | 3.1 | 0.269 |
| 4-4670 | 4-6130 | 0.594 | 180.5 | -1.4 | -0.57 | 1.307 | 63.3 | 0.767 | 3.260 | 62.6 | 195.7 | --- | 5.760 | 1.63 | 0.289 | 51.5 | 36.0 | 3.2 | 0.270 |
| 4-4670 | 4-6150 | 0.586 | 181.2 | -1.9 | -0.64 | 1.308 | 63.9 | 0.765 | 3.276 | 61.3 | 196.2 | --- | 5.782 | 1.67 | 0.292 | 51.2 | 37.0 | 3.2 | 0.272 |
| 4-4670 | 4-6170 | 0.577 | 182.0 | -2.4 | -0.71 | 1.308 | 64.4 | 0.764 | 3.291 | 60.0 | 196.6 | --- | 5.806 | 1.73 | 0.296 | 50.8 | 38.0 | 3.3 | 0.273 |
| 4-4670 | 4-6190 | 0.568 | 182.7 | -3.0 | -0.79 | 1.309 | 65.0 | 0.762 | 3.307 | 58.7 | 197.1 | --- | 5.829 | 1.78 | 0.299 | 50.4 | 39.0 | 3.4 | 0.275 |
| 4-4670 | 4-6210 | 0.559 | 183.5 | -3.5 | -0.87 | 1.310 | 65.5 | 0.761 | 3.323 | 57.5 | 197.5 | --- | 5.852 | 1.85 | 0.302 | 50.1 | 40.0 | 3.5 | 0.277 |
| 4-4670 | 4-6230 | 0.550 | 184.3 | -4.1 | -0.96 | 1.310 | 66.1 | 0.760 | 3.339 | 56.2 | 198.0 | --- | 5.876 | 1.92 | 0.305 | 49.8 | 41.0 | 3.6 | 0.278 |
| 4-4670 | 4-6250 | 0.541 | 185.1 | -4.8 | -1.06 | 1.311 | 66.7 | 0.758 | 3.355 | 54.9 | 198.4 | --- | 5.900 | 2.00 | 0.309 | 49.5 | 42.1 | 3.7 | 0.280 |
| 4-4670 | 4-6270 | 0.533 | 185.9 | -5.4 | -1.17 | 1.311 | 67.2 | 0.757 | 3.371 | 53.5 | 198.8 | --- | 5.924 | 2.08 | 0.312 | 49.3 | 43.2 | 3.8 | 0.282 |
| 4-4680 | 4-5040 | 1.231 | 162.7 | 8.6 | 2.06 | 1.392 | 29.9 | 0.98 | 314.021 | 121.9 | 158.1 | --- | --- | 2.14 | 0.544 | 166.5 | 46.5 | 2.7 | 0.610 |
| 4-4680 | 4-5060 | 1.209 | 162.6 | 8.6 | 1.96 | 1.376 | 30.5 | 0.971 | 8.525 | 122.0 | 159.8 | --- | --- | 2.06 | 0.500 | 165.2 | 46.0 | 2.7 | 0.571 |
| 4-4680 | 4-5080 | 1.190 | 162.5 | 8.6 | 1.88 | 1.362 | 31.0 | 0.961 | 6.432 | 122.0 | 161.2 | --- | --- | 2.00 | 0.461 | 163.8 | 45.3 | 2.7 | 0.536 |
| 4-4680 | 4-5100 | 1.173 | 162.6 | 8.6 | 1.80 | 1.350 | 31.6 | 0.952 | 5.338 | 121.8 | 162.6 | --- | --- | 1.93 | 0.425 | 162.3 | 44.6 | 2.7 | 0.505 |
| 4-4680 | 4-5120 | 1.157 | 162.6 | 8.5 | 1.72 | 1.340 | 32.1 | 0.945 | 4.672 | 121.6 | 163.9 | --- | --- | 1.88 | 0.393 | 160.6 | 43.9 | 2.6 | 0.477 |
| 4-4680 | 4-5140 | 1.142 | 162.7 | 8.5 | 1.65 | 1.332 | 32.7 | 0.938 | 4.228 | 121.2 | 165.0 | --- | --- | 1.82 | 0.363 | 158.7 | 43.1 | 2.6 | 0.452 |
| 4-4680 | 4-5160 | 1.128 | 162.9 | 8.4 | 1.58 | 1.325 | 33.2 | 0.931 | 3.915 | 120.8 | 166.1 | --- | --- | 1.78 | 0.337 | 156.7 | 42.2 | 2.6 | 0.429 |
| 4-4680 | 4-5180 | 1.115 | 163.0 | 8.3 | 1.51 | 1.319 | 33.7 | 0.925 | 3.684 | 120.3 | 167.2 | --- | --- | 1.73 | 0.312 | 154.5 | 41.4 | 2.6 | 0.409 |
| 4-4680 | 4-5200 | 1.103 | 163.2 | 8.2 | 1.45 | 1.314 | 34.2 | 0.920 | 3.509 | 119.8 | 168.2 | --- | --- | 1.69 | 0.290 | 152.1 | 40.5 | 2.6 | 0.391 |
| 4-4680 | 4-5220 | 1.091 | 163.4 | 8.1 | 1.39 | 1.309 | 34.8 | 0.915 | 3.374 | 119.2 | 169.1 | --- | --- | 1.65 | 0.270 | 149.5 | 39.5 | 2.6 | 0.374 |
| 4-4680 | 4-5240 | 1.080 | 163.7 | 8.0 | 1.34 | 1.305 | 35.3 | 0.910 | 3.267 | 118.5 | 170.0 | --- | --- | 1.61 | 0.252 | 146.7 | 38.6 | 2.5 | 0.360 |
| 4-4680 | 4-5260 | 1.069 | 163.9 | 7.8 | 1.28 | 1.302 | 35.8 | 0.905 | 3.182 | 117.9 | 170.9 | --- | --- | 1.58 | 0.236 | 143.6 | 37.6 | 2.5 | 0.346 |
| 4-4680 | 4-5280 | 1.058 | 164.2 | 7.7 | 1.23 | 1.300 | 36.3 | 0.901 | 3.114 | 117.1 | 171.7 | --- | --- | 1.55 | 0.222 | 140.3 | 36.6 | 2.5 | 0.335 |
| 4-4680 | 4-5300 | 1.048 | 164.5 | 7.6 | 1.18 | 1.297 | 36.8 | 0.897 | 3.059 | 116.4 | 172.5 | --- | --- | 1.52 | 0.209 | 136.7 | 35.6 | 2.5 | 0.324 |
| 4-4680 | 4-5320 | 1.038 | 164.8 | 7.4 | 1.13 | 1.296 | 37.3 | 0.893 | 3.015 | 115.6 | 173.2 | --- | --- | 1.50 | 0.198 | 132.9 | 34.6 | 2.4 | 0.315 |
| 4-4680 | 4-5340 | 1.028 | 165.1 | 7.3 | 1.08 | 1.294 | 37.8 | 0.889 | 2.979 | 114.8 | 174.0 | --- | --- | 1.47 | 0.188 | 128.9 | 33.7 | 2.4 | 0.306 |
| 4-4680 | 4-5360 | 1.018 | 165.5 | 7.1 | 1.04 | 1.293 | 38.4 | 0.885 | 2.950 | 114.0 | 174.7 | --- | --- | 1.45 | 0.181 | 124.8 | 32.7 | 2.4 | 0.299 |
| 4-4680 | 4-5380 | 1.009 | 165.8 | 6.9 | 0.99 | 1.292 | 38.9 | 0.882 | 2.927 | 113.1 | 175.4 | --- | --- | 1.43 | 0.174 | 120.5 | 31.8 | 2.3 | 0.292 |
| 4-4680 | 4-5400 | 0.999 | 166.2 | 6.8 | 0.95 | 1.291 | 39.4 | 0.878 | 2.910 | 112.2 | 176.0 | --- | --- | 1.41 | 0.169 | 116.1 | 30.9 | 2.3 | 0.287 |
| 4-4680 | 4-5420 | 0.990 | 166.5 | 6.6 | 0.91 | 1.290 | 39.9 | 0.875 | 2.896 | 111.3 | 176.7 | --- | --- | 1.39 | 0.165 | 111.7 | 30.1 | 2.3 | 0.282 |
| 4-4680 | 4-5440 | 0.981 | 166.9 | 6.4 | 0.87 | 1.290 | 40.4 | 0.872 | 2.886 | 110.4 | 177.3 | --- | --- | 1.37 | 0.163 | 107.3 | 29.3 | 2.3 | 0.277 |
| 4-4680 | 4-5460 | 0.971 | 167.3 | 6.2 | 0.83 | 1.290 | 40.9 | 0.869 | 2.878 | 109.5 | 178.0 | --- | --- | 1.36 | 0.161 | 103.1 | 28.5 | 2.2 | 0.274 |
| 4-4680 | 4-5480 | 0.962 | 167.7 | 6.0 | 0.79 | 1.289 | 41.5 | 0.865 | 2.874 | 108.5 | 178.6 | --- | --- | 1.34 | 0.161 | 98.9 | 27.8 | 2.2 | 0.270 |
| 4-4680 | 4-5500 | 0.953 | 168.1 | 5.9 | 0.75 | 1.289 | 42.0 | 0.862 | 2.872 | 107.6 | 179.2 | --- | --- | 1.33 | 0.161 | 95.0 | 27.2 | 2.2 | 0.268 |
| 4-4680 | 4-5520 | 0.944 | 168.5 | 5.7 | 0.71 | 1.289 | 42.5 | 0.859 | 2.872 | 106.6 | 179.8 | --- | --- | 1.32 | 0.162 | 91.2 | 26.6 | 2.2 | 0.265 |
| 4-4680 | 4-5540 | 0.935 | 168.9 | 5.5 | 0.67 | 1.289 | 43.0 | 0.856 | 2.873 | 105.6 | 180.4 | --- | 5.334 | 1.31 | 0.164 | 87.7 | 26.1 | 2.2 | 0.263 |
| 4-4680 | 4-5560 | 0.926 | 169.3 | 5.3 | 0.64 | 1.289 | 43.5 | 0.854 | 2.876 | 104.6 | 181.0 | --- | 5.332 | 1.30 | 0.167 | 84.4 | 25.7 | 2.2 | 0.262 |
| 4-4680 | 4-5580 | 0.917 | 169.8 | 5.0 | 0.60 | 1.290 | 44.1 | 0.851 | 2.881 | 103.6 | 181.5 | --- | 5.332 | 1.29 | 0.170 | 81.4 | 25.3 | 2.1 | 0.261 |
| 4-4680 | 4-5600 | 0.908 | 170.2 | 4.8 | 0.56 | 1.290 | 44.6 | 0.848 | 2.887 | 102.5 | 182.1 | --- | 5.334 | 1.28 | 0.173 | 78.5 | 25.0 | 2.1 | 0.260 |
| 4-4680 | 4-5620 | 0.899 | 170.6 | 4.6 | 0.53 | 1.290 | 45.1 | 0.845 | 2.894 | 101.5 | 182.6 | --- | 5.339 | 1.28 | 0.177 | 76.0 | 24.7 | 2.1 | 0.259 |
| 4-4680 | 4-5640 | 0.890 | 171.1 | 4.4 | 0.49 | 1.291 | 45.6 | 0.842 | 2.901 | 100.5 | 183.2 | --- | 5.345 | 1.27 | 0.181 | 73.6 | 24.5 | 2.1 | 0.259 |
| 4-4680 | 4-5660 | 0.881 | 171.5 | 4.2 | 0.46 | 1.291 | 46.2 | 0.840 | 2.910 | 99.4 | 183.7 | --- | 5.354 | 1.27 | 0.185 | 71.4 | 24.4 | 2.1 | 0.258 |
| 4-4680 | 4-5680 | 0.872 | 172.0 | 3.9 | 0.42 | 1.291 | 46.7 | 0.837 | 2.920 | 98.3 | 184.3 | --- | 5.363 | 1.27 | 0.189 | 69.4 | 24.4 | 2.1 | 0.258 |
| 4-4680 | 4-5700 | 0.863 | 172.5 | 3.7 | 0.38 | 1.292 | 47.2 | 0.834 | 2.930 | 97.2 | 184.8 | --- | 5.374 | 1.26 | 0.193 | 67.5 | 24.4 | 2.1 | 0.259 |
| 4-4680 | 4-5720 | 0.854 | 172.9 | 3.5 | 0.35 | 1.292 | 47.8 | 0.832 | 2.941 | 96.2 | 185.3 | --- | 5.387 | 1.26 | 0.198 | 65.8 | 24.5 | 2.2 | 0.259 |
| 4-4680 | 4-5740 | 0.845 | 173.4 | 3.2 | 0.31 | 1.293 | 48.3 | 0.829 | 2.952 | 95.1 | 185.8 | --- | 5.400 | 1.26 | 0.202 | 64.3 | 24.6 | 2.2 | 0.259 |
| 4-4680 | 4-5760 | 0.836 | 173.9 | 3.0 | 0.28 | 1.293 | 48.8 | 0.827 | 2.964 | 93.9 | 186.3 | --- | 5.414 | 1.26 | 0.207 | 62.9 | 24.8 | 2.2 | 0.260 |
| 4-4680 | 4-5780 | 0.827 | 174.4 | 2.7 | 0.24 | 1.294 | 49.4 | 0.824 | 2.976 | 92.8 | 186.9 | --- | 5.430 | 1.27 | 0.211 | 61.6 | 25.0 | 2.2 | 0.260 |
| 4-4680 | 4-5800 | 0.818 | 174.9 | 2.5 | 0.21 | 1.295 | 49.9 | 0.822 | 2.989 | 91.7 | 187.4 | --- | 5.446 | 1.27 | 0.216 | 60.4 | 25.3 | 2.2 | 0.261 |
| 4-4680 | 4-5820 | 0.809 | 175.4 | 2.2 | 0.17 | 1.295 | 50.4 | 0.819 | 3.002 | 90.6 | 187.9 | --- | 5.463 | 1.27 | 0.221 | 59.2 | 25.6 | 2.3 | 0.262 |
| 4-4680 | 4-5840 | 0.800 | 175.9 | 1.9 | 0.13 | 1.296 | 51.0 | 0.817 | 3.016 | 89.4 | 188.4 | --- | 5.480 | 1.28 | 0.225 | 58.2 | 26.0 | 2.3 | 0.263 |
| 4-4680 | 4-5860 | 0.791 | 176.5 | 1.7 | 0.10 | 1.296 | 51.5 | 0.815 | 3.030 | 88.3 | 188.8 | --- | 5.498 | 1.28 | 0.230 | 57.3 | 26.5 | 2.3 | 0.264 |
| 4-4680 | 4-5880 | 0.781 | 177.0 | 1.4 | 0.06 | 1.297 | 52.1 | 0.812 | 3.044 | 87.1 | 189.3 | --- | 5.517 | 1.29 | 0.234 | 56.4 | 27.0 | 2.3 | 0.265 |
| 4-4680 | 4-5900 | 0.772 | 177.5 | 1.1 | 0.02 | 1.297 | 52.6 | 0.810 | 3.059 | 86.0 | 189.8 | --- | 5.536 | 1.30 | 0.239 | 55.6 | 27.5 | 2.4 | 0.266 |
| 4-4680 | 4-5920 | 0.763 | 178.1 | 0.8 | -0.02 | 1.298 | 53.2 | 0.808 | 3.073 | 84.8 | 190.3 | --- | 5.556 | 1.31 | 0.243 | 54.9 | 28.1 | 2.4 | 0.267 |
| 4-4680 | 4-5940 | 0.754 | 178.6 | 0.5 | -0.06 | 1.299 | 53.7 | 0.806 | 3.088 | 83.6 | 190.8 | --- | 5.576 | 1.32 | 0.247 | 54.2 | 28.7 | 2.5 | 0.268 |
| 4-4680 | 4-5960 | 0.745 | 179.2 | 0.2 | -0.10 | 1.299 | 54.3 | 0.803 | 3.103 | 82.4 | 191.3 | --- | 5.596 | 1.33 | 0.251 | 53.5 | 29.3 | 2.5 | 0.270 |
| 4-4680 | 4-5980 | 0.735 | 179.8 | -0.1 | -0.14 | 1.300 | 54.8 | 0.801 | 3.119 | 81.2 | 191.7 | --- | 5.617 | 1.35 | 0.256 | 52.9 | 30.0 | 2.6 | 0.271 |
| 4-4680 | 4-6000 | 0.726 | 180.4 | -0.5 | -0.18 | 1.300 | 55.4 | 0.799 | 3.134 | 80.0 | 192.2 | --- | 5.638 | 1.36 | 0.260 | 52.4 | 30.7 | 2.6 | 0.272 |
| 4-4680 | 4-6020 | 0.717 | 180.9 | -0.8 | -0.23 | 1.301 | 55.9 | 0.797 | 3.150 | 78.8 | 192.7 | --- | 5.660 | 1.38 | 0.264 | 51.8 | 31.5 | 2.7 | 0.273 |
| 4-4680 | 4-6040 | 0.708 | 181.6 | -1.1 | -0.27 | 1.302 | 56.5 | 0.795 | 3.165 | 77.6 | 193.1 | --- | 5.681 | 1.40 | 0.268 | 51.4 | 32.3 | 2.7 | 0.275 |
| 4-4680 | 4-6060 | 0.698 | 182.2 | -1.5 | -0.32 | 1.302 | 57.0 | 0.793 | 3.181 | 76.3 | 193.6 | --- | 5.703 | 1.42 | 0.272 | 50.9 | 33.1 | 2.8 | 0.276 |
| 4-4680 | 4-6080 | 0.689 | 182.8 | -1.8 | -0.37 | 1.303 | 57.6 | 0.791 | 3.197 | 75.1 | 194.0 | --- | 5.726 | 1.44 | 0.276 | 50.5 | 34.0 | 2.8 | 0.277 |
| 4-4680 | 4-6100 | 0.680 | 183.4 | -2.2 | -0.42 | 1.304 | 58.1 | 0.789 | 3.213 | 73.8 | 194.5 | --- | 5.748 | 1.47 | 0.279 | 50.1 | 34.9 | 2.9 | 0.279 |
| 4-4680 | 4-6120 | 0.670 | 184.1 | -2.6 | -0.47 | 1.304 | 58.7 | 0.787 | 3.229 | 72.6 | 194.9 | --- | 5.771 | 1.49 | 0.283 | 49.7 | 35.8 | 2.9 | 0.280 |
| 4-4680 | 4-6140 | 0.661 | 184.7 | -3.0 | -0.52 | 1.305 | 59.3 | 0.785 | 3.246 | 71.3 | 195.4 | --- | 5.794 | 1.52 | 0.287 | 49.4 | 36.7 | 3.0 | 0.281 |
| 4-4680 | 4-6160 | 0.652 | 185.4 | -3.4 | -0.58 | 1.305 | 59.8 | 0.783 | 3.262 | 70.0 | 195.8 | --- | 5.817 | 1.56 | 0.290 | 49.1 | 37.7 | 3.1 | 0.283 |
| 4-4680 | 4-6180 | 0.642 | 186.1 | -3.9 | -0.64 | 1.306 | 60.4 | 0.781 | 3.278 | 68.8 | 196.3 | --- | 5.840 | 1.59 | 0.294 | 48.8 | 38.7 | 3.2 | 0.284 |
| 4-4680 | 4-6200 | 0.633 | 186.8 | -4.3 | -0.70 | 1.306 | 61.0 | 0.780 | 3.295 | 67.5 | 196.7 | --- | 5.864 | 1.63 | 0.297 | 48.5 | 39.7 | 3.2 | 0.286 |
| 4-4680 | 4-6220 | 0.624 | 187.5 | -4.8 | -0.76 | 1.307 | 61.6 | 0.778 | 3.312 | 66.2 | 197.1 | --- | 5.888 | 1.67 | 0.301 | 48.2 | 40.8 | 3.3 | 0.287 |
| 4-4680 | 4-6240 | 0.614 | 188.2 | -5.3 | -0.83 | 1.308 | 62.1 | 0.776 | 3.328 | 64.9 | 197.6 | --- | 5.911 | 1.72 | 0.304 | 48.0 | 41.9 | 3.4 | 0.288 |
| 4-4680 | 4-6260 | 0.605 | 188.9 | -5.8 | -0.91 | 1.308 | 62.7 | 0.775 | 3.345 | 63.6 | 198.0 | --- | 5.935 | 1.77 | 0.307 | 47.7 | 42.9 | 3.5 | 0.290 |
| 4-4680 | 4-6280 | 0.595 | 189.7 | -6.3 | -0.98 | 1.309 | 63.3 | 0.773 | 3.361 | 62.2 | 198.4 | --- | 5.960 | 1.82 | 0.311 | 47.5 | 44.1 | 3.6 | 0.291 |
| 4-4690 | 4-5060 | 1.348 | 166.3 | 7.0 | 2.66 | 1.383 | 22.5 | 0.98 | 710.990 | 136.9 | 164.0 | --- | --- | 2.86 | 0.526 | 169.4 | 44.3 | 2.6 | 0.615 |
| 4-4690 | 4-5070 | 1.324 | 166.4 | 6.9 | 2.50 | 1.367 | 23.2 | 0.980 | 7.383 | 136.4 | 165.0 | --- | --- | 2.72 | 0.482 | 168.2 | 43.6 | 2.6 | 0.576 |
| 4-4690 | 4-5090 | 1.302 | 166.5 | 6.9 | 2.35 | 1.354 | 23.9 | 0.974 | 5.804 | 135.9 | 166.0 | --- | --- | 2.60 | 0.442 | 166.8 | 42.9 | 2.6 | 0.542 |
| 4-4690 | 4-5110 | 1.283 | 166.7 | 6.8 | 2.22 | 1.342 | 24.6 | 0.968 | 4.927 | 135.3 | 166.9 | --- | --- | 2.48 | 0.406 | 165.4 | 42.2 | 2.6 | 0.511 |
| 4-4690 | 4-5130 | 1.265 | 166.8 | 6.7 | 2.10 | 1.333 | 25.3 | 0.962 | 4.374 | 134.6 | 167.8 | --- | --- | 2.38 | 0.374 | 163.7 | 41.4 | 2.5 | 0.484 |
| 4-4690 | 4-5150 | 1.248 | 167.0 | 6.6 | 1.99 | 1.325 | 26.0 | 0.957 | 3.998 | 133.9 | 168.6 | --- | --- | 2.29 | 0.344 | 161.9 | 40.5 | 2.5 | 0.460 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4690 | 4-5170 | 1.232 | 167.3 | 6.4 | 1.89 | 1.318 | 26.6 | 0.952 | 3.728 | 133.2 | 169.4 | --- | --- | 2.20 | 0.317 | 160.0 | 39.7 | 2.5 | 0.438 |
| 4-4690 | 4-5190 | 1.218 | 167.5 | 6.3 | 1.79 | 1.312 | 27.3 | 0.948 | 3.528 | 132.4 | 170.1 | --- | --- | 2.13 | 0.293 | 157.8 | 38.8 | 2.5 | 0.418 |
| 4-4690 | 4-5210 | 1.204 | 167.8 | 6.2 | 1.70 | 1.307 | 27.9 | 0.943 | 3.375 | 131.6 | 170.9 | --- | --- | 2.06 | 0.270 | 155.3 | 37.8 | 2.5 | 0.401 |
| 4-4690 | 4-5230 | 1.190 | 168.1 | 6.0 | 1.62 | 1.303 | 28.5 | 0.939 | 3.256 | 130.8 | 171.6 | --- | --- | 1.99 | 0.250 | 152.7 | 36.9 | 2.4 | 0.385 |
| 4-4690 | 4-5250 | 1.176 | 168.4 | 5.9 | 1.54 | 1.299 | 29.2 | 0.935 | 3.163 | 129.9 | 172.2 | --- | --- | 1.93 | 0.232 | 149.7 | 36.0 | 2.4 | 0.371 |
| 4-4690 | 4-5270 | 1.165 | 168.7 | 5.7 | 1.46 | 1.296 | 29.8 | 0.931 | 3.088 | 129.0 | 172.9 | --- | --- | 1.88 | 0.215 | 146.5 | 35.0 | 2.4 | 0.358 |
| 4-4690 | 4-5290 | 1.153 | 169.0 | 5.6 | 1.39 | 1.294 | 30.4 | 0.927 | 3.029 | 128.1 | 173.5 | --- | --- | 1.83 | 0.201 | 142.9 | 34.1 | 2.4 | 0.347 |
| 4-4690 | 4-5310 | 1.142 | 169.4 | 5.4 | 1.32 | 1.292 | 31.0 | 0.923 | 2.981 | 127.2 | 174.2 | --- | --- | 1.78 | 0.188 | 139.0 | 33.1 | 2.3 | 0.337 |
| 4-4690 | 4-5330 | 1.131 | 169.7 | 5.2 | 1.26 | 1.290 | 31.6 | 0.919 | 2.942 | 126.3 | 174.8 | --- | --- | 1.74 | 0.176 | 134.9 | 32.2 | 2.3 | 0.328 |
| 4-4690 | 4-5350 | 1.120 | 170.1 | 5.1 | 1.20 | 1.289 | 32.2 | 0.916 | 2.911 | 125.3 | 175.4 | --- | --- | 1.70 | 0.167 | 130.4 | 31.3 | 2.3 | 0.320 |
| 4-4690 | 4-5370 | 1.109 | 170.5 | 4.9 | 1.14 | 1.288 | 32.8 | 0.912 | 2.887 | 124.4 | 175.9 | --- | --- | 1.66 | 0.159 | 125.7 | 30.4 | 2.2 | 0.313 |
| 4-4690 | 4-5390 | 1.099 | 170.9 | 4.7 | 1.08 | 1.287 | 33.4 | 0.909 | 2.868 | 123.4 | 176.5 | --- | --- | 1.63 | 0.153 | 120.8 | 29.6 | 2.2 | 0.307 |
| 4-4690 | 4-5410 | 1.088 | 171.2 | 4.5 | 1.03 | 1.286 | 33.9 | 0.906 | 2.853 | 122.4 | 177.1 | --- | --- | 1.59 | 0.148 | 115.7 | 28.8 | 2.2 | 0.302 |
| 4-4690 | 4-5430 | 1.078 | 171.6 | 4.3 | 0.98 | 1.286 | 34.5 | 0.902 | 2.843 | 121.4 | 177.6 | --- | --- | 1.57 | 0.145 | 110.7 | 28.1 | 2.2 | 0.297 |
| 4-4690 | 4-5450 | 1.068 | 172.0 | 4.1 | 0.93 | 1.285 | 35.1 | 0.899 | 2.835 | 120.4 | 178.2 | --- | --- | 1.54 | 0.143 | 105.7 | 27.4 | 2.1 | 0.293 |
| 4-4690 | 4-5470 | 1.058 | 172.4 | 3.9 | 0.88 | 1.285 | 35.7 | 0.896 | 2.830 | 119.4 | 178.7 | --- | --- | 1.51 | 0.142 | 100.8 | 26.8 | 2.1 | 0.289 |
| 4-4690 | 4-5490 | 1.048 | 172.8 | 3.7 | 0.83 | 1.285 | 36.3 | 0.893 | 2.828 | 118.3 | 179.3 | --- | --- | 1.49 | 0.143 | 96.1 | 26.2 | 2.1 | 0.286 |
| 4-4690 | 4-5510 | 1.038 | 173.3 | 3.5 | 0.79 | 1.285 | 36.8 | 0.889 | 2.828 | 117.3 | 179.8 | --- | --- | 1.47 | 0.144 | 91.7 | 25.7 | 2.1 | 0.283 |
| 4-4690 | 4-5530 | 1.028 | 173.7 | 3.3 | 0.74 | 1.285 | 37.4 | 0.886 | 2.829 | 116.2 | 180.3 | --- | 5.337 | 1.45 | 0.146 | 87.6 | 25.2 | 2.1 | 0.281 |
| 4-4690 | 4-5550 | 1.018 | 174.1 | 3.1 | 0.70 | 1.285 | 38.0 | 0.883 | 2.833 | 115.2 | 180.8 | --- | 5.334 | 1.43 | 0.149 | 83.8 | 24.9 | 2.0 | 0.279 |
| 4-4690 | 4-5570 | 1.009 | 174.5 | 2.9 | 0.65 | 1.285 | 38.6 | 0.880 | 2.837 | 114.1 | 181.3 | --- | 5.335 | 1.41 | 0.152 | 80.3 | 24.5 | 2.0 | 0.278 |
| 4-4690 | 4-5590 | 0.999 | 175.0 | 2.7 | 0.61 | 1.286 | 39.1 | 0.877 | 2.843 | 113.0 | 181.8 | --- | 5.337 | 1.40 | 0.156 | 77.1 | 24.3 | 2.0 | 0.277 |
| 4-4690 | 4-5610 | 0.989 | 175.4 | 2.5 | 0.57 | 1.286 | 39.7 | 0.874 | 2.850 | 111.9 | 182.3 | --- | 5.342 | 1.38 | 0.160 | 74.2 | 24.1 | 2.0 | 0.276 |
| 4-4690 | 4-5630 | 0.980 | 175.9 | 2.3 | 0.53 | 1.286 | 40.3 | 0.871 | 2.858 | 110.8 | 182.8 | --- | 5.349 | 1.37 | 0.165 | 71.6 | 23.9 | 2.0 | 0.275 |
| 4-4690 | 4-5650 | 0.970 | 176.3 | 2.1 | 0.49 | 1.287 | 40.8 | 0.868 | 2.867 | 109.7 | 183.3 | --- | 5.358 | 1.36 | 0.170 | 69.2 | 23.9 | 2.0 | 0.275 |
| 4-4690 | 4-5670 | 0.961 | 176.8 | 1.8 | 0.45 | 1.287 | 41.4 | 0.866 | 2.877 | 108.6 | 183.8 | --- | 5.368 | 1.35 | 0.174 | 67.0 | 23.9 | 2.0 | 0.274 |
| 4-4690 | 4-5690 | 0.951 | 177.2 | 1.6 | 0.41 | 1.288 | 42.0 | 0.863 | 2.888 | 107.5 | 184.3 | --- | 5.379 | 1.34 | 0.179 | 65.1 | 23.9 | 2.0 | 0.274 |
| 4-4690 | 4-5710 | 0.941 | 177.7 | 1.4 | 0.37 | 1.288 | 42.6 | 0.860 | 2.899 | 106.4 | 184.8 | --- | 5.392 | 1.33 | 0.184 | 63.3 | 24.0 | 2.0 | 0.274 |
| 4-4690 | 4-5730 | 0.932 | 178.1 | 1.1 | 0.34 | 1.289 | 43.1 | 0.857 | 2.911 | 105.2 | 185.3 | --- | 5.406 | 1.32 | 0.189 | 61.7 | 24.2 | 2.1 | 0.275 |
| 4-4690 | 4-5750 | 0.922 | 178.6 | 0.9 | 0.30 | 1.289 | 43.7 | 0.854 | 2.923 | 104.1 | 185.8 | --- | 5.420 | 1.31 | 0.195 | 60.2 | 24.4 | 2.1 | 0.275 |
| 4-4690 | 4-5770 | 0.913 | 179.1 | 0.7 | 0.26 | 1.290 | 44.3 | 0.852 | 2.936 | 103.0 | 186.2 | --- | 5.436 | 1.31 | 0.200 | 58.9 | 24.6 | 2.1 | 0.275 |
| 4-4690 | 4-5790 | 0.903 | 179.6 | 0.4 | 0.22 | 1.291 | 44.8 | 0.849 | 2.949 | 101.8 | 186.7 | --- | 5.453 | 1.31 | 0.205 | 57.7 | 25.0 | 2.1 | 0.276 |
| 4-4690 | 4-5810 | 0.894 | 180.1 | 0.2 | 0.19 | 1.291 | 45.4 | 0.846 | 2.963 | 100.7 | 187.2 | --- | 5.470 | 1.30 | 0.210 | 56.6 | 25.3 | 2.1 | 0.276 |
| 4-4690 | 4-5830 | 0.884 | 180.6 | -0.1 | 0.15 | 1.292 | 46.0 | 0.843 | 2.977 | 99.5 | 187.7 | --- | 5.488 | 1.30 | 0.215 | 55.6 | 25.7 | 2.2 | 0.277 |
| 4-4690 | 4-5850 | 0.875 | 181.1 | -0.3 | 0.11 | 1.292 | 46.6 | 0.841 | 2.991 | 98.3 | 188.1 | --- | 5.506 | 1.30 | 0.220 | 54.6 | 26.2 | 2.2 | 0.278 |
| 4-4690 | 4-5870 | 0.865 | 181.6 | -0.6 | 0.07 | 1.293 | 47.1 | 0.838 | 3.006 | 97.1 | 188.6 | --- | 5.525 | 1.30 | 0.224 | 53.8 | 26.7 | 2.2 | 0.279 |
| 4-4690 | 4-5890 | 0.855 | 182.1 | -0.9 | 0.04 | 1.294 | 47.7 | 0.836 | 3.021 | 95.9 | 189.1 | --- | 5.545 | 1.30 | 0.229 | 53.0 | 27.3 | 2.3 | 0.280 |
| 4-4690 | 4-5910 | 0.846 | 182.6 | -1.1 | -0.00 | 1.294 | 48.3 | 0.833 | 3.036 | 94.8 | 189.5 | --- | 5.565 | 1.31 | 0.234 | 52.3 | 27.8 | 2.3 | 0.280 |
| 4-4690 | 4-5930 | 0.836 | 183.1 | -1.4 | -0.04 | 1.295 | 48.8 | 0.831 | 3.051 | 93.6 | 190.0 | --- | 5.585 | 1.31 | 0.239 | 51.6 | 28.5 | 2.3 | 0.281 |
| 4-4690 | 4-5950 | 0.826 | 183.7 | -1.7 | -0.08 | 1.296 | 49.4 | 0.828 | 3.067 | 92.4 | 190.4 | --- | 5.606 | 1.31 | 0.243 | 51.0 | 29.1 | 2.4 | 0.282 |
| 4-4690 | 4-5970 | 0.817 | 184.2 | -2.0 | -0.12 | 1.296 | 50.0 | 0.826 | 3.082 | 91.1 | 190.9 | --- | 5.627 | 1.32 | 0.248 | 50.5 | 29.8 | 2.4 | 0.283 |
| 4-4690 | 4-5990 | 0.807 | 184.8 | -2.3 | -0.16 | 1.297 | 50.6 | 0.823 | 3.098 | 89.9 | 191.4 | --- | 5.649 | 1.33 | 0.252 | 50.0 | 30.6 | 2.5 | 0.284 |
| 4-4690 | 4-6010 | 0.797 | 185.3 | -2.6 | -0.19 | 1.298 | 51.1 | 0.821 | 3.114 | 88.7 | 191.8 | --- | 5.671 | 1.34 | 0.256 | 49.5 | 31.3 | 2.5 | 0.286 |
| 4-4690 | 4-6030 | 0.788 | 185.9 | -2.9 | -0.24 | 1.298 | 51.7 | 0.818 | 3.131 | 87.5 | 192.3 | --- | 5.693 | 1.35 | 0.261 | 49.1 | 32.1 | 2.6 | 0.287 |
| 4-4690 | 4-6050 | 0.778 | 186.5 | -3.2 | -0.28 | 1.299 | 52.3 | 0.816 | 3.147 | 86.2 | 192.7 | --- | 5.715 | 1.36 | 0.265 | 48.7 | 33.0 | 2.6 | 0.288 |
| 4-4690 | 4-6070 | 0.768 | 187.0 | -3.5 | -0.32 | 1.299 | 52.9 | 0.814 | 3.164 | 85.0 | 193.1 | --- | 5.738 | 1.37 | 0.269 | 48.3 | 33.8 | 2.7 | 0.289 |
| 4-4690 | 4-6090 | 0.758 | 187.6 | -3.8 | -0.36 | 1.300 | 53.5 | 0.811 | 3.180 | 83.7 | 193.6 | --- | 5.760 | 1.38 | 0.273 | 47.9 | 34.7 | 2.7 | 0.290 |
| 4-4690 | 4-6110 | 0.749 | 188.2 | -4.2 | -0.41 | 1.301 | 54.1 | 0.809 | 3.197 | 82.5 | 194.0 | --- | 5.783 | 1.40 | 0.277 | 47.6 | 35.6 | 2.8 | 0.291 |
| 4-4690 | 4-6130 | 0.739 | 188.8 | -4.5 | -0.45 | 1.301 | 54.6 | 0.807 | 3.213 | 81.2 | 194.5 | --- | 5.807 | 1.42 | 0.281 | 47.3 | 36.6 | 2.8 | 0.292 |
| 4-4690 | 4-6150 | 0.729 | 189.5 | -4.9 | -0.50 | 1.302 | 55.2 | 0.805 | 3.230 | 79.9 | 194.9 | --- | 5.830 | 1.44 | 0.285 | 47.0 | 37.6 | 2.9 | 0.294 |
| 4-4690 | 4-6170 | 0.719 | 190.1 | -5.2 | -0.55 | 1.303 | 55.8 | 0.803 | 3.247 | 78.6 | 195.3 | --- | 5.853 | 1.46 | 0.288 | 46.8 | 38.5 | 3.0 | 0.295 |
| 4-4690 | 4-6190 | 0.710 | 190.7 | -5.6 | -0.60 | 1.303 | 56.4 | 0.800 | 3.264 | 77.3 | 195.8 | --- | 5.877 | 1.48 | 0.292 | 46.6 | 39.6 | 3.0 | 0.296 |
| 4-4690 | 4-6210 | 0.700 | 191.4 | -6.0 | -0.65 | 1.304 | 57.0 | 0.798 | 3.281 | 76.0 | 196.2 | --- | 5.901 | 1.50 | 0.296 | 46.3 | 40.6 | 3.1 | 0.297 |
| 4-4690 | 4-6230 | 0.690 | 192.0 | -6.4 | -0.70 | 1.304 | 57.6 | 0.796 | 3.298 | 74.7 | 196.6 | --- | 5.925 | 1.53 | 0.299 | 46.1 | 41.7 | 3.1 | 0.298 |
| 4-4690 | 4-6250 | 0.680 | 192.7 | -6.8 | -0.76 | 1.305 | 58.2 | 0.794 | 3.315 | 73.4 | 197.0 | --- | 5.949 | 1.56 | 0.303 | 45.9 | 42.8 | 3.2 | 0.300 |
| 4-4690 | 4-6270 | 0.670 | 193.4 | -7.2 | -0.82 | 1.306 | 58.8 | 0.792 | 3.332 | 72.1 | 197.5 | --- | 5.973 | 1.60 | 0.306 | 45.8 | 43.9 | 3.3 | 0.301 |
| 4-4690 | 4-6290 | 0.661 | 194.1 | -7.6 | -0.88 | 1.306 | 59.4 | 0.790 | 3.350 | 70.8 | 197.9 | --- | 5.997 | 1.63 | 0.309 | 45.6 | 45.0 | 3.4 | 0.302 |
| 4-4700 | 4-5060 | 1.462 | 170.3 | 5.2 | 3.90 | 1.376 | 15.0 | 0.993 | 9.474 | 151.6 | 169.5 | --- | --- | 4.22 | 0.512 | 172.7 | 42.2 | 2.5 | 0.625 |
| 4-4700 | 4-5080 | 1.436 | 170.5 | 5.1 | 3.56 | 1.360 | 15.9 | 0.990 | 6.704 | 150.5 | 170.0 | --- | --- | 3.90 | 0.468 | 171.6 | 41.4 | 2.5 | 0.587 |
| 4-4700 | 4-5100 | 1.412 | 170.7 | 5.0 | 3.28 | 1.347 | 16.8 | 0.986 | 5.399 | 149.4 | 170.4 | --- | --- | 3.63 | 0.428 | 170.4 | 40.7 | 2.5 | 0.553 |
| 4-4700 | 4-5120 | 1.390 | 171.0 | 4.8 | 3.02 | 1.336 | 17.6 | 0.982 | 4.647 | 148.4 | 170.9 | --- | --- | 3.40 | 0.391 | 169.0 | 39.9 | 2.5 | 0.523 |
| 4-4700 | 4-5140 | 1.370 | 171.3 | 4.7 | 2.80 | 1.326 | 18.4 | 0.979 | 4.163 | 147.3 | 171.4 | --- | --- | 3.19 | 0.358 | 167.5 | 39.1 | 2.4 | 0.496 |
| 4-4700 | 4-5160 | 1.352 | 171.6 | 4.5 | 2.60 | 1.318 | 19.2 | 0.975 | 3.830 | 146.3 | 171.8 | --- | --- | 3.02 | 0.328 | 165.9 | 38.2 | 2.4 | 0.472 |
| 4-4700 | 4-5180 | 1.335 | 171.9 | 4.4 | 2.43 | 1.312 | 20.0 | 0.971 | 3.589 | 145.2 | 172.3 | --- | --- | 2.86 | 0.300 | 164.0 | 37.3 | 2.4 | 0.451 |
| 4-4700 | 4-5200 | 1.318 | 172.2 | 4.2 | 2.27 | 1.306 | 20.8 | 0.968 | 3.409 | 144.2 | 172.8 | --- | --- | 2.72 | 0.275 | 161.9 | 36.4 | 2.4 | 0.432 |
| 4-4700 | 4-5220 | 1.303 | 172.6 | 4.1 | 2.12 | 1.301 | 21.5 | 0.964 | 3.271 | 143.1 | 173.3 | --- | --- | 2.59 | 0.252 | 159.5 | 35.5 | 2.3 | 0.415 |
| 4-4700 | 4-5240 | 1.288 | 172.9 | 3.9 | 1.99 | 1.297 | 22.3 | 0.961 | 3.164 | 142.1 | 173.7 | --- | --- | 2.48 | 0.232 | 156.9 | 34.6 | 2.3 | 0.399 |
| 4-4700 | 4-5260 | 1.274 | 173.3 | 3.7 | 1.87 | 1.294 | 23.0 | 0.958 | 3.079 | 141.0 | 174.2 | --- | --- | 2.37 | 0.213 | 153.9 | 33.7 | 2.3 | 0.386 |
| 4-4700 | 4-5280 | 1.261 | 173.7 | 3.5 | 1.76 | 1.291 | 23.7 | 0.954 | 3.012 | 139.9 | 174.7 | --- | --- | 2.28 | 0.196 | 150.5 | 32.8 | 2.2 | 0.374 |
| 4-4700 | 4-5300 | 1.248 | 174.0 | 3.3 | 1.66 | 1.289 | 24.4 | 0.951 | 2.958 | 138.9 | 175.1 | --- | --- | 2.20 | 0.180 | 146.8 | 31.9 | 2.2 | 0.363 |
| 4-4700 | 4-5320 | 1.235 | 174.4 | 3.2 | 1.56 | 1.287 | 25.1 | 0.947 | 2.915 | 137.8 | 175.6 | --- | --- | 2.12 | 0.167 | 142.6 | 31.0 | 2.2 | 0.353 |
| 4-4700 | 4-5340 | 1.223 | 174.8 | 3.0 | 1.47 | 1.285 | 25.8 | 0.944 | 2.881 | 136.7 | 176.1 | --- | --- | 2.05 | 0.155 | 138.0 | 30.1 | 2.2 | 0.344 |
| 4-4700 | 4-5360 | 1.211 | 175.2 | 2.8 | 1.38 | 1.284 | 26.5 | 0.941 | 2.854 | 135.6 | 176.5 | --- | --- | 1.99 | 0.145 | 133.0 | 29.3 | 2.1 | 0.337 |
| 4-4700 | 4-5380 | 1.199 | 175.6 | 2.6 | 1.30 | 1.283 | 27.1 | 0.938 | 2.833 | 134.5 | 177.0 | --- | --- | 1.93 | 0.137 | 127.6 | 28.6 | 2.1 | 0.330 |
| 4-4700 | 4-5400 | 1.188 | 176.0 | 2.4 | 1.23 | 1.282 | 27.8 | 0.934 | 2.817 | 133.4 | 177.5 | --- | --- | 1.87 | 0.131 | 121.9 | 27.8 | 2.1 | 0.324 |
| 4-4700 | 4-5420 | 1.176 | 176.5 | 2.2 | 1.16 | 1.282 | 28.4 | 0.931 | 2.804 | 132.3 | 177.9 | --- | --- | 1.82 | 0.127 | 116.0 | 27.1 | 2.1 | 0.319 |
| 4-4700 | 4-5440 | 1.165 | 176.9 | 2.0 | 1.09 | 1.281 | 29.1 | 0.928 | 2.796 | 131.2 | 178.4 | --- | --- | 1.77 | 0.124 | 110.0 | 26.5 | 2.0 | 0.314 |
| 4-4700 | 4-5460 | 1.154 | 177.3 | 1.8 | 1.03 | 1.281 | 29.7 | 0.925 | 2.790 | 130.1 | 178.8 | --- | --- | 1.73 | 0.122 | 104.1 | 25.9 | 2.0 | 0.310 |
| 4-4700 | 4-5480 | 1.144 | 177.7 | 1.6 | 0.96 | 1.281 | 30.4 | 0.922 | 2.787 | 129.0 | 179.3 | --- | --- | 1.69 | 0.122 | 98.3 | 25.4 | 2.0 | 0.307 |
| 4-4700 | 4-5500 | 1.133 | 178.1 | 1.4 | 0.91 | 1.281 | 31.0 | 0.918 | 2.787 | 127.9 | 179.7 | --- | --- | 1.65 | 0.124 | 93.0 | 25.0 | 2.0 | 0.304 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4700 | 4-5520 | 1.122 | 178.6 | 1.2 | 0.85 | 1.281 | 31.7 | 0.915 | 2.788 | 126.8 | 180.2 | --- | 5.340 | 1.62 | 0.126 | 88.0 | 24.6 | 2.0 | 0.301 |
| 4-4700 | 4-5540 | 1.112 | 179.0 | 1.0 | 0.79 | 1.281 | 32.3 | 0.912 | 2.791 | 125.6 | 180.6 | --- | 5.337 | 1.59 | 0.129 | 83.4 | 24.2 | 1.9 | 0.299 |
| 4-4700 | 4-5560 | 1.101 | 179.5 | 0.7 | 0.74 | 1.281 | 32.9 | 0.909 | 2.795 | 124.5 | 181.1 | --- | 5.337 | 1.56 | 0.133 | 79.2 | 24.0 | 1.9 | 0.297 |
| 4-4700 | 4-5580 | 1.091 | 179.9 | 0.5 | 0.69 | 1.281 | 33.5 | 0.906 | 2.801 | 123.4 | 181.5 | --- | 5.339 | 1.53 | 0.138 | 75.5 | 23.7 | 1.9 | 0.296 |
| 4-4700 | 4-5600 | 1.081 | 180.3 | 0.3 | 0.64 | 1.282 | 34.2 | 0.903 | 2.808 | 122.2 | 182.0 | --- | 5.344 | 1.51 | 0.142 | 72.2 | 23.6 | 1.9 | 0.294 |
| 4-4700 | 4-5620 | 1.071 | 180.8 | 0.1 | 0.59 | 1.282 | 34.8 | 0.900 | 2.817 | 121.1 | 182.4 | --- | 5.351 | 1.48 | 0.147 | 69.2 | 23.5 | 1.9 | 0.293 |
| 4-4700 | 4-5640 | 1.060 | 181.2 | -0.1 | 0.55 | 1.283 | 35.4 | 0.897 | 2.826 | 120.0 | 182.9 | --- | 5.360 | 1.46 | 0.153 | 66.6 | 23.5 | 1.9 | 0.293 |
| 4-4700 | 4-5660 | 1.050 | 181.7 | -0.3 | 0.50 | 1.283 | 36.0 | 0.894 | 2.836 | 118.8 | 183.3 | --- | 5.370 | 1.44 | 0.158 | 64.2 | 23.5 | 1.9 | 0.292 |
| 4-4700 | 4-5680 | 1.040 | 182.2 | -0.6 | 0.46 | 1.284 | 36.6 | 0.891 | 2.846 | 117.6 | 183.8 | --- | 5.382 | 1.42 | 0.164 | 62.1 | 23.6 | 1.9 | 0.292 |
| 4-4700 | 4-5700 | 1.030 | 182.6 | -0.8 | 0.42 | 1.284 | 37.2 | 0.888 | 2.858 | 116.5 | 184.2 | --- | 5.395 | 1.40 | 0.170 | 60.2 | 23.7 | 1.9 | 0.291 |
| 4-4700 | 4-5720 | 1.020 | 183.1 | -1.0 | 0.37 | 1.285 | 37.8 | 0.885 | 2.870 | 115.3 | 184.7 | --- | 5.409 | 1.39 | 0.175 | 58.5 | 23.9 | 2.0 | 0.291 |
| 4-4700 | 4-5740 | 1.010 | 183.6 | -1.3 | 0.33 | 1.285 | 38.5 | 0.882 | 2.882 | 114.1 | 185.1 | --- | 5.425 | 1.38 | 0.181 | 57.0 | 24.1 | 2.0 | 0.291 |
| 4-4700 | 4-5760 | 1.000 | 184.0 | -1.5 | 0.29 | 1.286 | 39.1 | 0.879 | 2.895 | 113.0 | 185.6 | --- | 5.441 | 1.36 | 0.187 | 55.7 | 24.4 | 2.0 | 0.292 |
| 4-4700 | 4-5780 | 0.990 | 184.5 | -1.7 | 0.25 | 1.287 | 39.7 | 0.876 | 2.909 | 111.8 | 186.0 | --- | 5.458 | 1.35 | 0.192 | 54.5 | 24.8 | 2.0 | 0.292 |
| 4-4700 | 4-5800 | 0.980 | 185.0 | -2.0 | 0.21 | 1.287 | 40.3 | 0.873 | 2.923 | 110.6 | 186.4 | --- | 5.476 | 1.34 | 0.198 | 53.4 | 25.1 | 2.0 | 0.292 |
| 4-4700 | 4-5820 | 0.970 | 185.5 | -2.2 | 0.17 | 1.288 | 40.9 | 0.871 | 2.937 | 109.4 | 186.9 | --- | 5.494 | 1.33 | 0.203 | 52.4 | 25.6 | 2.1 | 0.293 |
| 4-4700 | 4-5840 | 0.960 | 186.0 | -2.4 | 0.13 | 1.288 | 41.5 | 0.868 | 2.952 | 108.2 | 187.3 | --- | 5.513 | 1.32 | 0.209 | 51.5 | 26.1 | 2.1 | 0.293 |
| 4-4700 | 4-5860 | 0.950 | 186.5 | -2.7 | 0.09 | 1.289 | 42.1 | 0.865 | 2.967 | 107.0 | 187.8 | --- | 5.533 | 1.32 | 0.214 | 50.7 | 26.6 | 2.1 | 0.294 |
| 4-4700 | 4-5880 | 0.940 | 187.0 | -2.9 | 0.06 | 1.290 | 42.7 | 0.862 | 2.982 | 105.8 | 188.2 | --- | 5.553 | 1.31 | 0.219 | 50.0 | 27.1 | 2.1 | 0.294 |
| 4-4700 | 4-5900 | 0.930 | 187.5 | -3.2 | 0.02 | 1.290 | 43.3 | 0.859 | 2.997 | 104.6 | 188.7 | --- | 5.573 | 1.31 | 0.224 | 49.3 | 27.7 | 2.2 | 0.295 |
| 4-4700 | 4-5920 | 0.920 | 188.0 | -3.5 | -0.02 | 1.291 | 43.9 | 0.857 | 3.013 | 103.4 | 189.1 | --- | 5.594 | 1.30 | 0.229 | 48.7 | 28.4 | 2.2 | 0.296 |
| 4-4700 | 4-5940 | 0.910 | 188.5 | -3.7 | -0.06 | 1.292 | 44.5 | 0.854 | 3.029 | 102.2 | 189.5 | --- | 5.615 | 1.30 | 0.234 | 48.1 | 29.0 | 2.3 | 0.297 |
| 4-4700 | 4-5960 | 0.900 | 189.0 | -4.0 | -0.10 | 1.292 | 45.1 | 0.851 | 3.045 | 100.9 | 190.0 | --- | 5.637 | 1.30 | 0.239 | 47.6 | 29.7 | 2.3 | 0.298 |
| 4-4700 | 4-5980 | 0.889 | 189.5 | -4.3 | -0.13 | 1.293 | 45.7 | 0.848 | 3.061 | 99.7 | 190.4 | --- | 5.659 | 1.30 | 0.244 | 47.2 | 30.5 | 2.3 | 0.298 |
| 4-4700 | 4-6000 | 0.879 | 190.1 | -4.5 | -0.17 | 1.294 | 46.3 | 0.846 | 3.078 | 98.5 | 190.9 | --- | 5.681 | 1.30 | 0.248 | 46.8 | 31.3 | 2.4 | 0.299 |
| 4-4700 | 4-6020 | 0.869 | 190.6 | -4.8 | -0.21 | 1.295 | 46.9 | 0.843 | 3.095 | 97.2 | 191.3 | --- | 5.704 | 1.30 | 0.253 | 46.4 | 32.1 | 2.4 | 0.300 |
| 4-4700 | 4-6040 | 0.859 | 191.1 | -5.1 | -0.25 | 1.295 | 47.5 | 0.841 | 3.111 | 96.0 | 191.7 | --- | 5.726 | 1.31 | 0.257 | 46.0 | 32.9 | 2.5 | 0.301 |
| 4-4700 | 4-6060 | 0.849 | 191.7 | -5.4 | -0.29 | 1.296 | 48.1 | 0.838 | 3.128 | 94.7 | 192.2 | --- | 5.749 | 1.31 | 0.262 | 45.7 | 33.8 | 2.5 | 0.302 |
| 4-4700 | 4-6080 | 0.839 | 192.3 | -5.7 | -0.33 | 1.297 | 48.7 | 0.835 | 3.145 | 93.4 | 192.6 | --- | 5.772 | 1.32 | 0.266 | 45.4 | 34.6 | 2.6 | 0.303 |
| 4-4700 | 4-6100 | 0.829 | 192.8 | -6.0 | -0.37 | 1.297 | 49.3 | 0.833 | 3.162 | 92.2 | 193.0 | --- | 5.796 | 1.32 | 0.270 | 45.1 | 35.6 | 2.6 | 0.304 |
| 4-4700 | 4-6120 | 0.819 | 193.4 | -6.3 | -0.41 | 1.298 | 49.9 | 0.830 | 3.179 | 90.9 | 193.5 | --- | 5.819 | 1.33 | 0.274 | 44.9 | 36.5 | 2.7 | 0.305 |
| 4-4700 | 4-6140 | 0.809 | 194.0 | -6.6 | -0.45 | 1.298 | 50.5 | 0.828 | 3.197 | 89.6 | 193.9 | --- | 5.843 | 1.34 | 0.278 | 44.7 | 37.5 | 2.7 | 0.306 |
| 4-4700 | 4-6160 | 0.798 | 194.6 | -6.9 | -0.49 | 1.299 | 51.1 | 0.825 | 3.214 | 88.3 | 194.3 | --- | 5.866 | 1.35 | 0.282 | 44.5 | 38.5 | 2.8 | 0.307 |
| 4-4700 | 4-6180 | 0.788 | 195.2 | -7.2 | -0.53 | 1.300 | 51.7 | 0.823 | 3.231 | 87.0 | 194.7 | --- | 5.890 | 1.36 | 0.286 | 44.3 | 39.5 | 2.8 | 0.308 |
| 4-4700 | 4-6200 | 0.778 | 195.8 | -7.5 | -0.57 | 1.300 | 52.4 | 0.821 | 3.249 | 85.7 | 195.2 | --- | 5.914 | 1.38 | 0.290 | 44.1 | 40.5 | 2.9 | 0.309 |
| 4-4700 | 4-6220 | 0.768 | 196.4 | -7.9 | -0.62 | 1.301 | 53.0 | 0.818 | 3.266 | 84.4 | 195.6 | --- | 5.938 | 1.39 | 0.294 | 44.0 | 41.6 | 3.0 | 0.310 |
| 4-4700 | 4-6240 | 0.758 | 197.0 | -8.2 | -0.67 | 1.302 | 53.6 | 0.816 | 3.284 | 83.1 | 196.0 | --- | 5.963 | 1.41 | 0.297 | 43.8 | 42.7 | 3.0 | 0.311 |
| 4-4700 | 4-6260 | 0.748 | 197.6 | -8.6 | -0.71 | 1.302 | 54.2 | 0.813 | 3.301 | 81.8 | 196.4 | --- | 5.987 | 1.43 | 0.301 | 43.7 | 43.8 | 3.1 | 0.312 |
| 4-4700 | 4-6280 | 0.737 | 198.3 | -8.9 | -0.76 | 1.303 | 54.8 | 0.811 | 3.319 | 80.5 | 196.8 | --- | 6.011 | 1.45 | 0.305 | 43.6 | 44.9 | 3.1 | 0.313 |
| 4-4700 | 4-6300 | 0.727 | 198.9 | -9.3 | -0.81 | 1.304 | 55.4 | 0.809 | 3.337 | 79.2 | 197.3 | --- | 6.036 | 1.47 | 0.308 | 43.5 | 46.0 | 3.2 | 0.314 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

# EARTH-CERES TRAJECTORY DATA

# FOR THE YEARS 1970-1980

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 640 | 4- 880 | 0.921 | 334.8 | 0.7 | 9.85 | 1.317 | 132.6 | 0.858 | 3.494 | 265.3 | 502.3 | 0.495 | --- | -12.10 | 0.641 | 148.6 | 213.7 | -6.3 | 0.641 |
| 4- 640 | 4- 900 | 0.862 | 334.6 | 0.3 | 8.89 | 1.283 | 130.5 | 0.807 | 2.667 | 265.8 | 506.7 | 0.515 | --- | -11.60 | 0.570 | 143.7 | 214.4 | -6.9 | 0.563 |
| 4- 640 | 4- 920 | 0.814 | 334.5 | -0.2 | 8.00 | 1.257 | 128.8 | 0.766 | 2.270 | 266.2 | 511.0 | 0.532 | --- | -11.20 | 0.513 | 138.4 | 214.6 | -7.7 | 0.497 |
| 4- 640 | 4- 940 | 0.777 | 334.5 | -0.9 | 7.15 | 1.238 | 127.5 | 0.733 | 2.043 | 266.4 | 515.3 | 0.545 | --- | -10.86 | 0.467 | 132.6 | 214.3 | -8.4 | 0.441 |
| 4- 640 | 4- 960 | 0.748 | 334.6 | -1.6 | 6.34 | 1.223 | 126.4 | 0.708 | 1.901 | 266.6 | 519.5 | 0.555 | --- | -10.60 | 0.430 | 126.4 | 213.3 | -9.3 | 0.395 |
| 4- 640 | 4- 980 | 0.727 | 334.9 | -2.4 | 5.56 | 1.212 | 125.7 | 0.689 | 1.807 | 266.6 | 523.5 | 0.561 | --- | -10.39 | 0.402 | 120.0 | 211.7 | -10.2 | 0.356 |
| 4- 640 | 4-1000 | 0.712 | 335.2 | -3.2 | 4.79 | 1.203 | 125.2 | 0.676 | 1.743 | 266.4 | 527.5 | 0.565 | --- | -10.25 | 0.381 | 113.3 | 209.4 | -11.0 | 0.325 |
| 4- 640 | 4-1020 | 0.703 | 335.7 | -4.1 | 4.03 | 1.197 | 124.9 | 0.667 | 1.699 | 265.9 | 531.2 | 0.565 | --- | -10.16 | 0.366 | 106.7 | 206.4 | -11.8 | 0.302 |
| 4- 640 | 4-1040 | 0.699 | 336.3 | -5.0 | 3.28 | 1.193 | 124.9 | 0.663 | 1.668 | 265.3 | 534.8 | 0.563 | --- | -10.12 | 0.357 | 100.1 | 202.9 | -12.5 | 0.285 |
| 4- 640 | 4-1060 | 0.701 | 337.1 | -5.8 | 2.51 | 1.189 | 125.2 | 0.662 | 1.647 | 264.4 | 538.1 | 0.557 | --- | -10.14 | 0.352 | 93.6 | 199.0 | -13.0 | 0.276 |
| 4- 640 | 4-1080 | 0.707 | 338.0 | -6.7 | 1.73 | 1.187 | 125.7 | 0.665 | 1.634 | 263.2 | 541.3 | 0.547 | 2.721 | -10.23 | 0.351 | 87.5 | 195.2 | -13.2 | 0.273 |
| 4- 640 | 4-1100 | 0.719 | 339.0 | -7.5 | 0.92 | 1.186 | 126.4 | 0.672 | 1.627 | 261.7 | 544.1 | 0.534 | 2.719 | -10.37 | 0.353 | 81.7 | 191.8 | -13.1 | 0.277 |
| 4- 640 | 4-1120 | 0.735 | 340.2 | -8.2 | 0.08 | 1.186 | 127.3 | 0.681 | 1.623 | 259.8 | 546.7 | 0.518 | 2.729 | -10.58 | 0.357 | 76.2 | 189.1 | -12.9 | 0.286 |
| 4- 640 | 4-1140 | 0.756 | 341.6 | -8.9 | -0.82 | 1.186 | 128.5 | 0.693 | 1.624 | 257.7 | 549.0 | 0.498 | 2.750 | -10.88 | 0.363 | 70.9 | 187.2 | -12.5 | 0.300 |
| 4- 640 | 4-1160 | 0.781 | 343.1 | -9.4 | -1.78 | 1.186 | 129.9 | 0.709 | 1.627 | 255.2 | 551.0 | 0.474 | 2.780 | -11.26 | 0.370 | 66.0 | 186.2 | -12.0 | 0.319 |
| 4- 640 | 4-1180 | 0.812 | 344.8 | -9.8 | -2.83 | 1.187 | 131.6 | 0.727 | 1.633 | 252.3 | 552.7 | 0.446 | 2.819 | -11.76 | 0.379 | 61.2 | 186.1 | -11.4 | 0.341 |
| 4- 640 | 4-1200 | 0.848 | 346.6 | -10.1 | -4.00 | 1.188 | 133.6 | 0.747 | 1.641 | 249.1 | 554.1 | 0.415 | 2.866 | -12.39 | 0.387 | 56.6 | 186.9 | -10.9 | 0.367 |
| 4- 640 | 4-1220 | 0.890 | 348.6 | -10.3 | -5.31 | 1.190 | 135.8 | 0.770 | 1.650 | 245.4 | 555.0 | 0.380 | 2.921 | -13.19 | 0.396 | 52.1 | 188.5 | -10.4 | 0.396 |
| 4- 640 | 4-1240 | 0.937 | 350.7 | -10.3 | -6.84 | 1.192 | 138.4 | 0.795 | 1.662 | 241.3 | 555.6 | 0.341 | 2.983 | -14.21 | 0.406 | 47.6 | 190.7 | -9.9 | 0.427 |
| 4- 640 | 4-1260 | 0.989 | 352.9 | -10.1 | -8.64 | 1.194 | 141.3 | 0.821 | 1.675 | 236.9 | 555.8 | 0.299 | 3.050 | -15.52 | 0.415 | 43.2 | 193.6 | -9.5 | 0.462 |
| 4- 640 | 4-1280 | 1.048 | 355.3 | -9.8 | -10.82 | 1.196 | 144.5 | 0.849 | 1.689 | 232.0 | 555.6 | 0.255 | 3.123 | -17.22 | 0.425 | 38.7 | 197.1 | -9.0 | 0.499 |
| 4- 640 | 4-1300 | 1.112 | 357.9 | -9.3 | -13.57 | 1.198 | 148.0 | 0.877 | 1.705 | 226.7 | 554.9 | 0.210 | 3.200 | -19.50 | 0.434 | 34.1 | 201.1 | -8.7 | 0.539 |
| 4- 640 | 4-1320 | 1.181 | 0.5 | -8.6 | -17.17 | 1.200 | 151.8 | 0.904 | 1.723 | 221.0 | 553.9 | 0.165 | 3.280 | -22.64 | 0.443 | 29.4 | 205.6 | -8.3 | 0.581 |
| 4- 640 | 4-1340 | 1.255 | 3.3 | -7.8 | -22.10 | 1.203 | 155.9 | 0.929 | 1.741 | 215.1 | 552.4 | 0.123 | 3.360 | -27.12 | 0.452 | 24.8 | 210.5 | -7.9 | 0.625 |
| 4- 650 | 4- 890 | 0.889 | 341.1 | 5.1 | 10.63 | 1.322 | 130.3 | 0.855 | 3.711 | 270.6 | 499.6 | 0.539 | --- | -13.99 | 0.655 | 147.8 | 216.9 | -7.5 | 0.646 |
| 4- 650 | 4- 910 | 0.827 | 340.9 | 4.4 | 9.42 | 1.287 | 128.2 | 0.799 | 2.782 | 271.1 | 504.1 | 0.560 | --- | -13.23 | 0.585 | 143.0 | 217.7 | -8.2 | 0.567 |
| 4- 650 | 4- 930 | 0.778 | 340.8 | 3.6 | 8.31 | 1.261 | 126.4 | 0.754 | 2.347 | 271.6 | 508.5 | 0.577 | --- | -12.59 | 0.528 | 137.8 | 218.2 | -8.9 | 0.501 |
| 4- 650 | 4- 950 | 0.738 | 340.8 | 2.8 | 7.29 | 1.241 | 125.0 | 0.718 | 2.101 | 272.0 | 512.9 | 0.592 | --- | -12.07 | 0.483 | 132.2 | 218.1 | -9.7 | 0.445 |
| 4- 650 | 4- 970 | 0.707 | 341.0 | 1.8 | 6.34 | 1.226 | 123.9 | 0.691 | 1.948 | 272.3 | 517.2 | 0.603 | --- | -11.63 | 0.447 | 126.3 | 217.5 | -10.5 | 0.397 |
| 4- 650 | 4- 990 | 0.684 | 341.2 | 0.8 | 5.44 | 1.215 | 123.0 | 0.669 | 1.847 | 272.4 | 521.5 | 0.611 | --- | -11.28 | 0.419 | 120.2 | 216.3 | -11.4 | 0.357 |
| 4- 650 | 4-1010 | 0.667 | 341.5 | -0.3 | 4.58 | 1.206 | 122.4 | 0.654 | 1.778 | 272.4 | 525.6 | 0.616 | --- | -11.00 | 0.398 | 114.0 | 214.3 | -12.3 | 0.325 |
| 4- 650 | 4-1030 | 0.655 | 342.0 | -1.3 | 3.74 | 1.200 | 122.1 | 0.643 | 1.730 | 272.1 | 529.5 | 0.618 | --- | -10.79 | 0.383 | 107.7 | 211.7 | -13.2 | 0.300 |
| 4- 650 | 4-1050 | 0.650 | 342.7 | -2.4 | 2.93 | 1.195 | 122.0 | 0.636 | 1.697 | 271.6 | 533.2 | 0.617 | --- | -10.64 | 0.374 | 101.5 | 208.4 | -13.9 | 0.281 |
| 4- 650 | 4-1070 | 0.649 | 343.4 | -3.5 | 2.12 | 1.191 | 122.1 | 0.634 | 1.674 | 270.9 | 536.8 | 0.613 | --- | -10.55 | 0.369 | 95.5 | 204.7 | -14.5 | 0.269 |
| 4- 650 | 4-1090 | 0.653 | 344.4 | -4.5 | 1.31 | 1.189 | 122.4 | 0.635 | 1.659 | 269.9 | 540.1 | 0.606 | 2.712 | -10.52 | 0.367 | 89.8 | 200.9 | -14.7 | 0.263 |
| 4- 650 | 4-1110 | 0.662 | 345.4 | -5.4 | 0.49 | 1.188 | 123.0 | 0.639 | 1.650 | 268.6 | 543.2 | 0.595 | 2.704 | -10.56 | 0.368 | 84.4 | 197.3 | -14.7 | 0.264 |
| 4- 650 | 4-1130 | 0.675 | 346.6 | -6.3 | -0.35 | 1.187 | 123.8 | 0.646 | 1.645 | 267.0 | 546.0 | 0.582 | 2.709 | -10.66 | 0.371 | 79.2 | 194.2 | -14.5 | 0.270 |
| 4- 650 | 4-1150 | 0.692 | 347.9 | -7.0 | -1.21 | 1.187 | 124.8 | 0.657 | 1.645 | 265.0 | 548.6 | 0.565 | 2.725 | -10.83 | 0.376 | 74.4 | 191.9 | -14.0 | 0.281 |
| 4- 650 | 4-1170 | 0.714 | 349.4 | -7.7 | -2.13 | 1.187 | 126.0 | 0.670 | 1.647 | 262.8 | 550.9 | 0.544 | 2.750 | -11.08 | 0.383 | 69.8 | 190.4 | -13.5 | 0.296 |
| 4- 650 | 4-1190 | 0.741 | 351.0 | -8.2 | -3.10 | 1.188 | 127.4 | 0.685 | 1.652 | 260.2 | 552.8 | 0.519 | 2.784 | -11.41 | 0.390 | 65.3 | 189.9 | -12.9 | 0.315 |
| 4- 650 | 4-1210 | 0.773 | 352.8 | -8.5 | -4.15 | 1.189 | 129.1 | 0.704 | 1.658 | 257.2 | 554.5 | 0.491 | 2.826 | -11.86 | 0.398 | 61.1 | 190.2 | -12.2 | 0.338 |
| 4- 650 | 4-1230 | 0.809 | 354.6 | -8.7 | -5.30 | 1.190 | 131.1 | 0.725 | 1.667 | 253.8 | 555.8 | 0.459 | 2.875 | -12.43 | 0.406 | 56.9 | 191.4 | -11.6 | 0.363 |
| 4- 650 | 4-1250 | 0.851 | 356.6 | -8.8 | -6.58 | 1.192 | 133.3 | 0.748 | 1.677 | 250.1 | 556.7 | 0.423 | 2.932 | -13.15 | 0.414 | 52.8 | 193.2 | -11.1 | 0.392 |
| 4- 650 | 4-1270 | 0.898 | 358.8 | -8.7 | -8.05 | 1.194 | 135.9 | 0.773 | 1.689 | 246.0 | 557.3 | 0.383 | 2.995 | -14.07 | 0.423 | 48.7 | 195.7 | -10.5 | 0.423 |
| 4- 650 | 4-1290 | 0.951 | 1.0 | -8.4 | -9.76 | 1.196 | 138.7 | 0.800 | 1.703 | 241.5 | 557.5 | 0.340 | 3.065 | -15.25 | 0.432 | 44.5 | 198.8 | -10.0 | 0.457 |
| 4- 650 | 4-1310 | 1.009 | 3.4 | -7.9 | -11.79 | 1.198 | 141.8 | 0.829 | 1.717 | 236.5 | 557.3 | 0.294 | 3.140 | -16.78 | 0.440 | 40.3 | 202.5 | -9.6 | 0.493 |
| 4- 650 | 4-1330 | 1.073 | 5.9 | -7.3 | -14.31 | 1.200 | 145.3 | 0.858 | 1.733 | 231.2 | 556.6 | 0.247 | 3.219 | -18.79 | 0.448 | 36.0 | 206.6 | -9.2 | 0.532 |
| 4- 650 | 4-1350 | 1.142 | 8.5 | -6.5 | -17.51 | 1.202 | 149.1 | 0.886 | 1.750 | 225.5 | 555.6 | 0.199 | 3.302 | -21.50 | 0.456 | 31.6 | 211.2 | -8.8 | 0.573 |
| 4- 660 | 4- 920 | 0.794 | 346.9 | 9.1 | 10.25 | 1.291 | 125.8 | 0.791 | 2.892 | 276.5 | 501.5 | 0.605 | --- | -15.06 | 0.598 | 142.3 | 220.9 | -9.6 | 0.572 |
| 4- 660 | 4- 940 | 0.741 | 346.8 | 8.0 | 8.85 | 1.264 | 124.0 | 0.743 | 2.420 | 277.1 | 506.1 | 0.623 | --- | -14.10 | 0.542 | 137.2 | 221.6 | -10.2 | 0.505 |
| 4- 660 | 4- 960 | 0.700 | 346.8 | 6.8 | 7.60 | 1.244 | 122.5 | 0.704 | 2.156 | 277.6 | 510.6 | 0.638 | --- | -13.31 | 0.497 | 131.8 | 221.8 | -11.0 | 0.448 |
| 4- 660 | 4- 980 | 0.667 | 347.0 | 5.5 | 6.46 | 1.229 | 121.4 | 0.674 | 1.993 | 278.1 | 515.1 | 0.650 | --- | -12.66 | 0.462 | 126.1 | 221.4 | -11.8 | 0.399 |
| 4- 660 | 4-1000 | 0.642 | 347.2 | 4.2 | 5.41 | 1.217 | 120.5 | 0.650 | 1.886 | 278.3 | 519.5 | 0.659 | --- | -12.12 | 0.434 | 120.3 | 220.5 | -12.7 | 0.359 |
| 4- 660 | 4-1020 | 0.623 | 347.6 | 2.8 | 4.43 | 1.208 | 119.8 | 0.633 | 1.812 | 278.4 | 523.7 | 0.666 | --- | -11.68 | 0.413 | 114.3 | 218.9 | -13.6 | 0.325 |
| 4- 660 | 4-1040 | 0.610 | 348.2 | 1.4 | 3.50 | 1.201 | 119.4 | 0.620 | 1.761 | 278.3 | 527.8 | 0.669 | --- | -11.32 | 0.399 | 108.4 | 216.5 | -14.4 | 0.298 |
| 4- 660 | 4-1060 | 0.602 | 348.8 | 0.1 | 2.61 | 1.197 | 119.2 | 0.612 | 1.725 | 278.0 | 531.7 | 0.669 | --- | -11.04 | 0.389 | 102.6 | 213.5 | -15.2 | 0.277 |
| 4- 660 | 4-1080 | 0.600 | 349.7 | -1.1 | 1.75 | 1.193 | 119.2 | 0.608 | 1.700 | 277.4 | 535.5 | 0.667 | --- | -10.83 | 0.384 | 97.0 | 210.0 | -15.8 | 0.263 |
| 4- 660 | 4-1100 | 0.602 | 350.6 | -2.3 | 0.91 | 1.191 | 119.4 | 0.607 | 1.683 | 276.5 | 539.0 | 0.662 | --- | -10.69 | 0.381 | 91.6 | 206.2 | -16.1 | 0.255 |
| 4- 660 | 4-1120 | 0.608 | 351.7 | -3.4 | 0.08 | 1.189 | 119.9 | 0.610 | 1.673 | 275.4 | 542.2 | 0.653 | 2.693 | -10.61 | 0.382 | 86.5 | 202.5 | -16.1 | 0.253 |
| 4- 660 | 4-1140 | 0.619 | 352.9 | -4.4 | -0.76 | 1.188 | 120.5 | 0.615 | 1.667 | 274.0 | 545.3 | 0.642 | 2.693 | -10.60 | 0.385 | 81.7 | 199.2 | -15.9 | 0.256 |
| 4- 660 | 4-1160 | 0.634 | 354.2 | -5.3 | -1.61 | 1.188 | 121.3 | 0.623 | 1.665 | 272.2 | 548.0 | 0.627 | 2.704 | -10.65 | 0.389 | 77.2 | 196.6 | -15.4 | 0.264 |
| 4- 660 | 4-1180 | 0.653 | 355.7 | -6.0 | -2.48 | 1.188 | 122.3 | 0.634 | 1.667 | 270.1 | 550.5 | 0.609 | 2.724 | -10.77 | 0.395 | 72.9 | 194.7 | -14.8 | 0.277 |
| 4- 660 | 4-1200 | 0.676 | 357.3 | -6.6 | -3.39 | 1.189 | 123.6 | 0.648 | 1.671 | 267.8 | 552.8 | 0.588 | 2.753 | -10.97 | 0.401 | 68.8 | 193.8 | -14.0 | 0.293 |
| 4- 660 | 4-1220 | 0.704 | 359.0 | -7.0 | -4.34 | 1.190 | 125.1 | 0.664 | 1.677 | 265.0 | 554.7 | 0.563 | 2.790 | -11.26 | 0.408 | 64.8 | 193.7 | -13.3 | 0.313 |
| 4- 660 | 4-1240 | 0.737 | 0.8 | -7.2 | -5.37 | 1.191 | 126.8 | 0.683 | 1.684 | 261.9 | 556.3 | 0.534 | 2.835 | -11.64 | 0.416 | 61.0 | 194.5 | -12.6 | 0.335 |
| 4- 660 | 4-1260 | 0.774 | 2.7 | -7.3 | -6.48 | 1.192 | 128.8 | 0.704 | 1.694 | 258.5 | 557.5 | 0.501 | 2.886 | -12.14 | 0.423 | 57.2 | 196.0 | -12.0 | 0.361 |
| 4- 660 | 4-1280 | 0.816 | 4.7 | -7.2 | -7.71 | 1.194 | 131.0 | 0.727 | 1.705 | 254.6 | 558.4 | 0.465 | 2.945 | -12.78 | 0.431 | 53.4 | 198.1 | -11.4 | 0.389 |
| 4- 660 | 4-1300 | 0.863 | 6.9 | -7.0 | -9.09 | 1.195 | 133.5 | 0.753 | 1.717 | 250.4 | 559.0 | 0.424 | 3.010 | -13.60 | 0.439 | 49.6 | 200.8 | -10.8 | 0.419 |
| 4- 660 | 4-1320 | 0.915 | 9.1 | -6.6 | -10.68 | 1.197 | 136.3 | 0.780 | 1.731 | 245.8 | 559.2 | 0.380 | 3.081 | -14.64 | 0.446 | 45.7 | 204.1 | -10.3 | 0.452 |
| 4- 660 | 4-1340 | 0.973 | 11.5 | -6.0 | -12.55 | 1.199 | 139.4 | 0.809 | 1.745 | 240.8 | 558.9 | 0.333 | 3.158 | -15.98 | 0.454 | 41.8 | 207.9 | -9.8 | 0.487 |
| 4- 660 | 4-1360 | 1.036 | 13.9 | -5.2 | -14.81 | 1.202 | 142.8 | 0.839 | 1.761 | 235.4 | 558.3 | 0.283 | 3.239 | -17.73 | 0.461 | 37.6 | 212.1 | -9.4 | 0.525 |
| 4- 670 | 4- 930 | 0.762 | 352.5 | 14.7 | 11.54 | 1.293 | 123.4 | 0.783 | 2.992 | 281.9 | 499.1 | 0.649 | --- | -17.26 | 0.609 | 141.5 | 223.8 | -11.3 | 0.576 |
| 4- 670 | 4- 950 | 0.707 | 352.4 | 13.0 | 9.70 | 1.266 | 121.6 | 0.731 | 2.486 | 282.6 | 503.8 | 0.668 | --- | -15.84 | 0.554 | 136.5 | 224.7 | -11.8 | 0.508 |
| 4- 670 | 4- 970 | 0.662 | 352.5 | 11.2 | 8.11 | 1.246 | 120.1 | 0.690 | 2.207 | 283.3 | 508.4 | 0.684 | --- | -14.68 | 0.510 | 131.3 | 225.1 | -12.5 | 0.450 |
| 4- 670 | 4- 990 | 0.627 | 352.7 | 9.5 | 6.71 | 1.231 | 118.9 | 0.658 | 2.034 | 283.9 | 513.1 | 0.696 | --- | -13.73 | 0.475 | 125.8 | 225.0 | -13.2 | 0.401 |
| 4- 670 | 4-1010 | 0.600 | 353.0 | 7.7 | 5.47 | 1.219 | 117.9 | 0.632 | 1.921 | 284.3 | 517.6 | 0.706 | --- | -12.94 | 0.447 | 120.1 | 224.4 | -14.0 | 0.359 |
| 4- 670 | 4-1030 | 0.580 | 353.5 | 5.9 | 4.33 | 1.210 | 117.2 | 0.613 | 1.843 | 284.5 | 522.0 | 0.713 | --- | -12.30 | 0.427 | 114.5 | 223.1 | -14.8 | 0.325 |
| 4- 670 | 4-1050 | 0.566 | 354.1 | 4.2 | 3.29 | 1.203 | 116.8 | 0.599 | 1.789 | 284.5 | 526.2 | 0.717 | --- | -11.77 | 0.412 | 108.8 | 221.0 | -15.6 | 0.296 |
| 4- 670 | 4-1070 | 0.557 | 354.8 | 2.6 | 2.31 | 1.198 | 116.5 | 0.589 | 1.751 | 284.3 | 530.3 | 0.719 | --- | -11.34 | 0.403 | 103.3 | 218.3 | -16.3 | 0.274 |
| 4- 670 | 4-1090 | 0.553 | 355.7 | 1.1 | 1.39 | 1.194 | 116.4 | 0.584 | 1.725 | 283.9 | 534.2 | 0.718 | --- | -11.00 | 0.397 | 98.0 | 215.0 | -16.9 | 0.258 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 670 | 4-1110 | 0.553 | 356.7 | -0.4 | 0.51 | 1.192 | 116.6 | 0.582 | 1.707 | 283.2 | 537.9 | 0.714 | --- | -10.73 | 0.395 | 93.0 | 211.3 | -17.2 | 0.248 |
| 4- 670 | 4-1130 | 0.558 | 357.8 | -1.7 | -0.35 | 1.190 | 116.9 | 0.583 | 1.695 | 282.2 | 541.3 | 0.707 | 2.683 | -10.54 | 0.395 | 88.2 | 207.5 | -17.2 | 0.244 |
| 4- 670 | 4-1150 | 0.567 | 359.1 | -2.8 | -1.19 | 1.189 | 117.4 | 0.587 | 1.689 | 280.9 | 544.5 | 0.698 | 2.679 | -10.41 | 0.397 | 83.7 | 204.0 | -17.0 | 0.244 |
| 4- 670 | 4-1170 | 0.580 | 0.5 | -3.8 | -2.02 | 1.189 | 118.1 | 0.593 | 1.686 | 279.3 | 547.5 | 0.686 | 2.686 | -10.35 | 0.401 | 79.4 | 201.1 | -16.4 | 0.250 |
| 4- 670 | 4-1190 | 0.596 | 1.9 | -4.6 | -2.86 | 1.189 | 119.0 | 0.602 | 1.686 | 277.4 | 550.1 | 0.670 | 2.702 | -10.36 | 0.406 | 75.4 | 199.0 | -15.7 | 0.260 |
| 4- 670 | 4-1210 | 0.617 | 3.5 | -5.2 | -3.72 | 1.189 | 120.1 | 0.614 | 1.689 | 275.1 | 552.6 | 0.652 | 2.727 | -10.43 | 0.412 | 71.6 | 197.7 | -14.9 | 0.274 |
| 4- 670 | 4-1230 | 0.642 | 5.2 | -5.7 | -4.60 | 1.190 | 121.4 | 0.628 | 1.695 | 272.6 | 554.7 | 0.630 | 2.760 | -10.58 | 0.418 | 67.9 | 197.3 | -14.1 | 0.291 |
| 4- 670 | 4-1250 | 0.670 | 7.0 | -6.0 | -5.52 | 1.191 | 122.9 | 0.645 | 1.702 | 269.7 | 556.5 | 0.604 | 2.800 | -10.81 | 0.425 | 64.3 | 197.7 | -13.3 | 0.311 |
| 4- 670 | 4-1270 | 0.703 | 8.8 | -6.1 | -6.49 | 1.192 | 124.6 | 0.664 | 1.711 | 266.5 | 558.0 | 0.575 | 2.846 | -11.13 | 0.432 | 60.8 | 198.8 | -12.6 | 0.334 |
| 4- 670 | 4-1290 | 0.741 | 10.8 | -6.0 | -7.54 | 1.194 | 126.6 | 0.685 | 1.721 | 262.9 | 559.3 | 0.542 | 2.900 | -11.56 | 0.439 | 57.4 | 200.7 | -11.9 | 0.359 |
| 4- 670 | 4-1310 | 0.783 | 12.8 | -5.8 | -8.69 | 1.195 | 128.8 | 0.709 | 1.732 | 259.0 | 560.1 | 0.504 | 2.960 | -12.11 | 0.446 | 53.9 | 203.1 | -11.3 | 0.386 |
| 4- 670 | 4-1330 | 0.830 | 14.9 | -5.3 | -9.96 | 1.197 | 131.3 | 0.735 | 1.745 | 254.7 | 560.6 | 0.463 | 3.027 | -12.82 | 0.453 | 50.4 | 206.1 | -10.7 | 0.416 |
| 4- 670 | 4-1350 | 0.882 | 17.1 | -4.8 | -11.42 | 1.199 | 134.1 | 0.762 | 1.759 | 250.0 | 560.8 | 0.418 | 3.100 | -13.72 | 0.459 | 46.8 | 209.5 | -10.2 | 0.448 |
| 4- 670 | 4-1370 | 0.940 | 19.5 | -4.0 | -13.10 | 1.201 | 137.2 | 0.792 | 1.774 | 244.9 | 560.5 | 0.370 | 3.178 | -14.87 | 0.466 | 43.0 | 213.4 | -9.7 | 0.482 |
| 4- 680 | 4- 940 | 0.736 | 357.5 | 21.7 | 13.63 | 1.294 | 121.0 | 0.775 | 3.077 | 287.3 | 496.8 | 0.693 | --- | -20.18 | 0.618 | 140.6 | 226.3 | -13.5 | 0.581 |
| 4- 680 | 4- 960 | 0.675 | 357.5 | 18.9 | 11.05 | 1.268 | 119.2 | 0.720 | 2.544 | 288.2 | 501.6 | 0.712 | --- | -17.99 | 0.564 | 135.7 | 227.5 | -13.7 | 0.511 |
| 4- 680 | 4- 980 | 0.626 | 357.6 | 16.3 | 8.94 | 1.247 | 117.6 | 0.676 | 2.251 | 289.1 | 506.4 | 0.728 | --- | -16.26 | 0.520 | 130.6 | 228.2 | -14.1 | 0.452 |
| 4- 680 | 4-1000 | 0.589 | 357.9 | 13.9 | 7.16 | 1.232 | 116.4 | 0.642 | 2.071 | 289.8 | 511.2 | 0.741 | --- | -14.89 | 0.486 | 125.3 | 228.3 | -14.7 | 0.402 |
| 4- 680 | 4-1020 | 0.560 | 358.4 | 11.5 | 5.64 | 1.220 | 115.4 | 0.615 | 1.953 | 290.3 | 515.8 | 0.751 | --- | -13.78 | 0.459 | 119.9 | 227.9 | -15.3 | 0.360 |
| 4- 680 | 4-1040 | 0.538 | 359.0 | 9.2 | 4.30 | 1.211 | 114.7 | 0.595 | 1.872 | 290.7 | 520.4 | 0.759 | --- | -12.88 | 0.439 | 114.4 | 226.9 | -16.0 | 0.324 |
| 4- 680 | 4-1060 | 0.522 | 359.7 | 7.0 | 3.10 | 1.204 | 114.2 | 0.579 | 1.816 | 290.8 | 524.8 | 0.764 | --- | -12.14 | 0.425 | 109.0 | 225.1 | -16.7 | 0.295 |
| 4- 680 | 4-1080 | 0.512 | 0.5 | 4.9 | 2.02 | 1.199 | 113.9 | 0.569 | 1.776 | 290.8 | 529.0 | 0.766 | --- | -11.53 | 0.415 | 103.8 | 222.6 | -17.3 | 0.271 |
| 4- 680 | 4-1100 | 0.507 | 1.5 | 3.0 | 1.02 | 1.195 | 113.8 | 0.562 | 1.748 | 290.4 | 533.0 | 0.766 | --- | -11.04 | 0.409 | 98.8 | 219.5 | -17.8 | 0.253 |
| 4- 680 | 4-1120 | 0.507 | 2.6 | 1.3 | 0.08 | 1.192 | 113.8 | 0.559 | 1.729 | 289.8 | 536.9 | 0.763 | --- | -10.64 | 0.407 | 94.0 | 215.9 | -18.1 | 0.242 |
| 4- 680 | 4-1140 | 0.510 | 3.8 | -0.2 | -0.80 | 1.191 | 114.1 | 0.558 | 1.716 | 288.9 | 540.4 | 0.758 | 2.675 | -10.33 | 0.406 | 89.5 | 212.2 | -18.0 | 0.235 |
| 4- 680 | 4-1160 | 0.518 | 5.2 | -1.5 | -1.65 | 1.189 | 114.5 | 0.561 | 1.709 | 287.8 | 543.8 | 0.750 | 2.668 | -10.09 | 0.408 | 85.2 | 208.6 | -17.7 | 0.234 |
| 4- 680 | 4-1180 | 0.529 | 6.6 | -2.6 | -2.47 | 1.189 | 115.1 | 0.566 | 1.706 | 286.3 | 546.9 | 0.740 | 2.671 | -9.92 | 0.412 | 81.2 | 205.5 | -17.1 | 0.238 |
| 4- 680 | 4-1200 | 0.544 | 8.1 | -3.5 | -3.28 | 1.189 | 115.9 | 0.574 | 1.706 | 284.5 | 549.7 | 0.727 | 2.684 | -9.82 | 0.416 | 77.4 | 203.1 | -16.4 | 0.246 |
| 4- 680 | 4-1220 | 0.563 | 9.7 | -4.2 | -4.09 | 1.189 | 116.9 | 0.584 | 1.708 | 282.4 | 552.3 | 0.711 | 2.706 | -9.79 | 0.421 | 73.8 | 201.5 | -15.5 | 0.258 |
| 4- 680 | 4-1240 | 0.585 | 11.4 | -4.7 | -4.91 | 1.190 | 118.0 | 0.596 | 1.713 | 280.0 | 554.6 | 0.691 | 2.734 | -9.82 | 0.427 | 70.4 | 200.8 | -14.6 | 0.272 |
| 4- 680 | 4-1260 | 0.610 | 13.1 | -5.0 | -5.74 | 1.191 | 119.4 | 0.611 | 1.719 | 277.3 | 556.6 | 0.669 | 2.770 | -9.92 | 0.433 | 67.1 | 200.9 | -13.7 | 0.290 |
| 4- 680 | 4-1280 | 0.640 | 14.9 | -5.1 | -6.60 | 1.192 | 120.9 | 0.628 | 1.728 | 274.2 | 558.4 | 0.643 | 2.813 | -10.09 | 0.440 | 63.9 | 201.8 | -12.9 | 0.310 |
| 4- 680 | 4-1300 | 0.674 | 16.8 | -5.0 | -7.50 | 1.194 | 122.6 | 0.647 | 1.737 | 270.9 | 559.8 | 0.613 | 2.862 | -10.35 | 0.446 | 60.7 | 203.3 | -12.1 | 0.333 |
| 4- 680 | 4-1320 | 0.711 | 18.8 | -4.7 | -8.47 | 1.195 | 124.6 | 0.669 | 1.748 | 267.2 | 560.9 | 0.579 | 2.917 | -10.70 | 0.453 | 57.5 | 205.5 | -11.5 | 0.357 |
| 4- 680 | 4-1340 | 0.753 | 20.8 | -4.3 | -9.52 | 1.197 | 126.9 | 0.692 | 1.760 | 263.1 | 561.7 | 0.542 | 2.979 | -11.17 | 0.459 | 54.3 | 208.2 | -10.8 | 0.384 |
| 4- 680 | 4-1360 | 0.800 | 22.9 | -3.7 | -10.67 | 1.198 | 129.3 | 0.718 | 1.773 | 258.7 | 562.2 | 0.500 | 3.047 | -11.76 | 0.465 | 51.0 | 211.4 | -10.3 | 0.413 |
| 4- 680 | 4-1380 | 0.852 | 25.1 | -3.0 | -11.96 | 1.200 | 132.1 | 0.746 | 1.787 | 253.9 | 562.3 | 0.454 | 3.121 | -12.52 | 0.471 | 47.6 | 215.0 | -9.8 | 0.443 |
| 4- 690 | 4- 950 | 0.725 | 1.8 | 31.3 | 17.27 | 1.295 | 118.6 | 0.766 | 3.143 | 292.8 | 494.7 | 0.737 | --- | -24.59 | 0.625 | 139.7 | 228.1 | -16.6 | 0.589 |
| 4- 690 | 4- 970 | 0.650 | 1.8 | 26.7 | 13.31 | 1.268 | 116.7 | 0.708 | 2.590 | 293.9 | 499.7 | 0.756 | --- | -20.97 | 0.572 | 134.9 | 229.8 | -16.3 | 0.517 |
| 4- 690 | 4- 990 | 0.594 | 2.1 | 22.6 | 10.30 | 1.248 | 115.2 | 0.663 | 2.288 | 294.9 | 504.6 | 0.772 | --- | -18.29 | 0.529 | 129.9 | 230.8 | -16.2 | 0.455 |
| 4- 690 | 4-1010 | 0.552 | 2.6 | 18.9 | 7.91 | 1.232 | 113.9 | 0.627 | 2.102 | 295.8 | 509.5 | 0.785 | --- | -16.26 | 0.495 | 124.7 | 231.3 | -16.4 | 0.404 |
| 4- 690 | 4-1030 | 0.520 | 3.2 | 15.6 | 5.96 | 1.220 | 112.9 | 0.599 | 1.981 | 296.5 | 514.3 | 0.795 | --- | -14.68 | 0.469 | 119.4 | 231.2 | -16.7 | 0.360 |
| 4- 690 | 4-1050 | 0.496 | 4.0 | 12.5 | 4.33 | 1.211 | 112.2 | 0.577 | 1.897 | 297.0 | 519.0 | 0.802 | --- | -13.43 | 0.449 | 114.2 | 230.4 | -17.2 | 0.323 |
| 4- 690 | 4-1070 | 0.480 | 4.9 | 9.6 | 2.92 | 1.204 | 111.6 | 0.561 | 1.839 | 297.2 | 523.5 | 0.807 | --- | -12.42 | 0.435 | 109.0 | 228.8 | -17.6 | 0.292 |
| 4- 690 | 4-1090 | 0.469 | 6.0 | 7.0 | 1.70 | 1.199 | 111.3 | 0.549 | 1.798 | 297.3 | 527.9 | 0.810 | --- | -11.60 | 0.426 | 104.0 | 226.6 | -18.1 | 0.268 |
| 4- 690 | 4-1110 | 0.463 | 7.1 | 4.6 | 0.60 | 1.195 | 111.2 | 0.542 | 1.769 | 297.0 | 532.0 | 0.811 | --- | -10.94 | 0.420 | 99.2 | 223.6 | -18.4 | 0.249 |
| 4- 690 | 4-1130 | 0.462 | 8.3 | 2.6 | -0.40 | 1.193 | 111.2 | 0.538 | 1.749 | 296.5 | 536.0 | 0.809 | --- | -10.40 | 0.417 | 94.7 | 220.2 | -18.6 | 0.235 |
| 4- 690 | 4-1150 | 0.465 | 9.7 | 0.8 | -1.31 | 1.191 | 111.4 | 0.536 | 1.736 | 295.7 | 539.7 | 0.805 | --- | -9.96 | 0.417 | 90.4 | 216.4 | -18.5 | 0.228 |
| 4- 690 | 4-1170 | 0.472 | 11.1 | -0.8 | -2.17 | 1.190 | 111.8 | 0.538 | 1.728 | 294.7 | 543.1 | 0.798 | 2.658 | -9.62 | 0.418 | 86.4 | 212.8 | -18.1 | 0.225 |
| 4- 690 | 4-1190 | 0.482 | 12.6 | -2.0 | -2.99 | 1.189 | 112.3 | 0.542 | 1.724 | 293.3 | 546.4 | 0.790 | 2.659 | -9.35 | 0.422 | 82.6 | 209.5 | -17.4 | 0.227 |
| 4- 690 | 4-1210 | 0.496 | 14.2 | -3.0 | -3.77 | 1.189 | 113.0 | 0.548 | 1.724 | 291.6 | 549.3 | 0.778 | 2.669 | -9.15 | 0.426 | 79.0 | 206.9 | -16.6 | 0.233 |
| 4- 690 | 4-1230 | 0.512 | 15.8 | -3.7 | -4.53 | 1.190 | 113.9 | 0.557 | 1.726 | 289.6 | 552.0 | 0.764 | 2.688 | -9.02 | 0.431 | 75.7 | 205.1 | -15.6 | 0.243 |
| 4- 690 | 4-1250 | 0.532 | 17.5 | -4.2 | -5.29 | 1.190 | 114.9 | 0.568 | 1.730 | 287.3 | 554.5 | 0.748 | 2.713 | -8.95 | 0.436 | 72.5 | 204.1 | -14.6 | 0.256 |
| 4- 690 | 4-1270 | 0.556 | 19.2 | -4.5 | -6.04 | 1.191 | 116.1 | 0.581 | 1.737 | 284.7 | 556.7 | 0.728 | 2.745 | -8.95 | 0.442 | 69.4 | 204.0 | -13.7 | 0.272 |
| 4- 690 | 4-1290 | 0.582 | 21.0 | -4.5 | -6.80 | 1.192 | 117.5 | 0.596 | 1.745 | 281.8 | 558.6 | 0.705 | 2.784 | -9.00 | 0.448 | 66.4 | 204.7 | -12.8 | 0.290 |
| 4- 690 | 4-1310 | 0.613 | 22.9 | -4.4 | -7.58 | 1.193 | 119.0 | 0.613 | 1.754 | 278.6 | 560.2 | 0.679 | 2.829 | -9.13 | 0.454 | 63.5 | 206.0 | -12.0 | 0.310 |
| 4- 690 | 4-1330 | 0.647 | 24.8 | -4.1 | -8.40 | 1.195 | 120.8 | 0.632 | 1.764 | 275.0 | 561.5 | 0.649 | 2.880 | -9.33 | 0.459 | 60.6 | 207.9 | -11.3 | 0.332 |
| 4- 690 | 4-1350 | 0.684 | 26.8 | -3.6 | -9.26 | 1.196 | 122.8 | 0.654 | 1.776 | 271.2 | 562.6 | 0.615 | 2.937 | -9.61 | 0.465 | 57.6 | 210.4 | -10.6 | 0.356 |
| 4- 690 | 4-1370 | 0.726 | 28.8 | -3.0 | -10.19 | 1.198 | 125.1 | 0.678 | 1.788 | 267.0 | 563.3 | 0.577 | 3.000 | -9.98 | 0.471 | 54.7 | 213.4 | -10.0 | 0.382 |
| 4- 690 | 4-1390 | 0.772 | 30.9 | -2.2 | -11.20 | 1.200 | 127.5 | 0.703 | 1.802 | 262.5 | 563.7 | 0.534 | 3.069 | -10.47 | 0.476 | 51.6 | 216.8 | -9.5 | 0.410 |
| 4- 700 | 4- 960 | 0.763 | 5.5 | 46.3 | 24.75 | 1.294 | 116.1 | 0.756 | 3.184 | 298.3 | 492.9 | 0.778 | --- | -32.76 | 0.630 | 138.7 | 228.2 | -21.5 | 0.613 |
| 4- 700 | 4- 980 | 0.648 | 5.0 | 38.0 | 17.55 | 1.268 | 114.2 | 0.696 | 2.622 | 299.7 | 497.9 | 0.798 | --- | -25.85 | 0.577 | 134.0 | 231.2 | -20.1 | 0.528 |
| 4- 700 | 4-1000 | 0.572 | 5.5 | 31.2 | 12.68 | 1.248 | 112.7 | 0.649 | 2.315 | 300.9 | 503.0 | 0.813 | --- | -21.28 | 0.536 | 129.0 | 232.9 | -19.1 | 0.461 |
| 4- 700 | 4-1020 | 0.519 | 6.4 | 25.3 | 9.17 | 1.232 | 111.4 | 0.612 | 2.127 | 302.0 | 508.0 | 0.826 | --- | -18.08 | 0.503 | 123.9 | 233.9 | -18.6 | 0.405 |
| 4- 700 | 4-1040 | 0.482 | 7.4 | 20.3 | 6.53 | 1.221 | 110.4 | 0.583 | 2.003 | 302.8 | 513.0 | 0.836 | --- | -15.74 | 0.477 | 118.8 | 234.0 | -18.4 | 0.359 |
| 4- 700 | 4-1060 | 0.456 | 8.6 | 15.9 | 4.44 | 1.211 | 109.7 | 0.560 | 1.919 | 303.4 | 517.8 | 0.843 | --- | -13.98 | 0.458 | 113.7 | 233.5 | -18.4 | 0.321 |
| 4- 700 | 4-1080 | 0.438 | 9.8 | 12.0 | 2.74 | 1.205 | 109.1 | 0.544 | 1.859 | 303.8 | 522.5 | 0.849 | --- | -12.61 | 0.444 | 108.8 | 232.2 | -18.5 | 0.289 |
| 4- 700 | 4-1100 | 0.427 | 11.0 | 8.6 | 1.32 | 1.199 | 108.8 | 0.532 | 1.818 | 303.9 | 527.0 | 0.852 | --- | -11.54 | 0.435 | 104.0 | 230.1 | -18.7 | 0.263 |
| 4- 700 | 4-1120 | 0.421 | 12.4 | 5.6 | 0.10 | 1.196 | 108.6 | 0.523 | 1.788 | 303.8 | 531.2 | 0.852 | --- | -10.68 | 0.429 | 99.4 | 227.3 | -18.8 | 0.243 |
| 4- 700 | 4-1140 | 0.420 | 13.8 | 3.1 | -0.97 | 1.193 | 108.6 | 0.519 | 1.768 | 303.4 | 535.3 | 0.851 | --- | -9.98 | 0.427 | 95.1 | 223.9 | -18.8 | 0.229 |
| 4- 700 | 4-1160 | 0.423 | 15.3 | 1.0 | -1.92 | 1.191 | 108.8 | 0.517 | 1.754 | 302.6 | 539.1 | 0.848 | --- | -9.42 | 0.426 | 91.0 | 220.2 | -18.5 | 0.220 |
| 4- 700 | 4-1180 | 0.429 | 16.8 | -0.8 | -2.79 | 1.190 | 109.1 | 0.517 | 1.746 | 301.6 | 542.6 | 0.843 | 2.650 | -8.97 | 0.428 | 87.2 | 216.5 | -18.0 | 0.216 |
| 4- 700 | 4-1200 | 0.438 | 18.4 | -2.1 | -3.59 | 1.189 | 109.6 | 0.521 | 1.742 | 300.3 | 546.0 | 0.835 | 2.649 | -8.61 | 0.431 | 83.6 | 213.2 | -17.2 | 0.217 |
| 4- 700 | 4-1220 | 0.451 | 20.1 | -3.2 | -4.35 | 1.189 | 110.2 | 0.526 | 1.741 | 298.7 | 549.0 | 0.825 | 2.657 | -8.33 | 0.434 | 80.3 | 210.4 | -16.3 | 0.222 |
| 4- 700 | 4-1240 | 0.467 | 21.8 | -3.9 | -5.06 | 1.190 | 111.0 | 0.533 | 1.743 | 296.8 | 551.8 | 0.813 | 2.673 | -8.12 | 0.439 | 77.1 | 208.4 | -15.2 | 0.230 |
| 4- 700 | 4-1260 | 0.485 | 23.5 | -4.4 | -5.75 | 1.190 | 111.9 | 0.543 | 1.747 | 294.5 | 554.4 | 0.799 | 2.696 | -7.97 | 0.444 | 74.1 | 207.3 | -14.2 | 0.242 |
| 4- 700 | 4-1280 | 0.506 | 25.3 | -4.6 | -6.43 | 1.191 | 113.0 | 0.554 | 1.753 | 292.0 | 556.7 | 0.782 | 2.725 | -7.88 | 0.449 | 71.3 | 207.0 | -13.2 | 0.256 |
| 4- 700 | 4-1300 | 0.530 | 27.1 | -4.5 | -7.10 | 1.192 | 114.3 | 0.568 | 1.761 | 289.2 | 558.7 | 0.761 | 2.761 | -7.84 | 0.455 | 68.5 | 207.5 | -12.3 | 0.272 |
| 4- 700 | 4-1320 | 0.558 | 28.9 | -4.3 | -7.77 | 1.193 | 115.7 | 0.583 | 1.770 | 286.1 | 560.5 | 0.738 | 2.802 | -7.86 | 0.460 | 65.8 | 208.6 | -11.4 | 0.290 |
| 4- 700 | 4-1340 | 0.588 | 30.8 | -3.9 | -8.45 | 1.195 | 117.4 | 0.600 | 1.780 | 282.7 | 562.0 | 0.711 | 2.849 | -7.95 | 0.466 | 63.1 | 210.4 | -10.7 | 0.310 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 700 | 4-1360 | 0.622 | 32.7 | -3.3 | -9.16 | 1.196 | 119.2 | 0.620 | 1.791 | 279.0 | 563.2 | 0.681 | 2.902 | -8.09 | 0.471 | 60.4 | 212.7 | -10.0 | 0.332 |
| 4- 700 | 4-1380 | 0.660 | 34.6 | -2.6 | -9.90 | 1.198 | 121.2 | 0.641 | 1.804 | 275.0 | 564.1 | 0.647 | 2.960 | -8.30 | 0.476 | 57.7 | 215.5 | -9.4 | 0.356 |
| 4- 700 | 4-1400 | 0.701 | 36.6 | -1.7 | -10.69 | 1.199 | 123.4 | 0.665 | 1.817 | 270.7 | 564.8 | 0.609 | 3.024 | -8.59 | 0.481 | 54.9 | 218.7 | -8.9 | 0.381 |
| 4- 710 | 4- 990 | 0.730 | 7.0 | 57.4 | 27.58 | 1.267 | 111.7 | 0.683 | 2.639 | 305.5 | 496.5 | 0.837 | --- | -36.47 | 0.581 | 133.0 | 229.6 | -26.4 | 0.568 |
| 4- 710 | 4-1010 | 0.581 | 7.0 | 44.6 | 17.60 | 1.247 | 110.1 | 0.634 | 2.332 | 307.1 | 501.7 | 0.853 | --- | -26.74 | 0.540 | 128.1 | 233.7 | -23.7 | 0.477 |
| 4- 710 | 4-1030 | 0.497 | 8.6 | 34.4 | 11.55 | 1.232 | 108.9 | 0.596 | 2.144 | 308.3 | 506.9 | 0.865 | --- | -20.94 | 0.508 | 123.1 | 235.7 | -21.7 | 0.411 |
| 4- 710 | 4-1050 | 0.447 | 10.5 | 26.3 | 7.54 | 1.220 | 107.9 | 0.567 | 2.020 | 309.3 | 512.0 | 0.875 | --- | -17.18 | 0.484 | 118.1 | 236.5 | -20.5 | 0.360 |
| 4- 710 | 4-1070 | 0.416 | 12.3 | 19.6 | 4.69 | 1.211 | 107.1 | 0.544 | 1.935 | 310.1 | 516.9 | 0.882 | --- | -14.58 | 0.465 | 113.1 | 236.2 | -19.8 | 0.318 |
| 4- 710 | 4-1090 | 0.397 | 14.0 | 14.0 | 2.53 | 1.204 | 106.6 | 0.527 | 1.876 | 310.6 | 521.7 | 0.887 | --- | -12.70 | 0.452 | 108.3 | 235.1 | -19.3 | 0.285 |
| 4- 710 | 4-1110 | 0.385 | 15.7 | 9.4 | 0.84 | 1.199 | 106.3 | 0.515 | 1.834 | 310.8 | 526.3 | 0.889 | --- | -11.28 | 0.443 | 103.7 | 233.2 | -19.0 | 0.258 |
| 4- 710 | 4-1130 | 0.380 | 17.4 | 5.6 | -0.53 | 1.196 | 106.1 | 0.507 | 1.804 | 310.7 | 530.7 | 0.890 | --- | -10.19 | 0.438 | 99.3 | 230.5 | -18.8 | 0.237 |
| 4- 710 | 4-1150 | 0.379 | 19.0 | 2.5 | -1.69 | 1.193 | 106.1 | 0.501 | 1.784 | 310.3 | 534.8 | 0.890 | --- | -9.34 | 0.435 | 95.2 | 227.2 | -18.5 | 0.222 |
| 4- 710 | 4-1170 | 0.383 | 20.7 | 0.1 | -2.68 | 1.191 | 106.2 | 0.499 | 1.770 | 309.7 | 538.7 | 0.887 | --- | -8.66 | 0.435 | 91.3 | 223.5 | -18.0 | 0.212 |
| 4- 710 | 4-1190 | 0.389 | 22.4 | -1.9 | -3.55 | 1.190 | 106.5 | 0.499 | 1.762 | 308.7 | 542.3 | 0.882 | 2.642 | -8.11 | 0.436 | 87.7 | 219.8 | -17.2 | 0.207 |
| 4- 710 | 4-1210 | 0.399 | 24.1 | -3.3 | -4.33 | 1.190 | 107.0 | 0.502 | 1.758 | 307.4 | 545.7 | 0.876 | 2.640 | -7.67 | 0.439 | 84.3 | 216.4 | -16.3 | 0.207 |
| 4- 710 | 4-1230 | 0.411 | 25.8 | -4.4 | -5.04 | 1.189 | 107.6 | 0.506 | 1.757 | 305.8 | 548.8 | 0.868 | 2.647 | -7.32 | 0.442 | 81.2 | 213.6 | -15.3 | 0.211 |
| 4- 710 | 4-1250 | 0.425 | 27.6 | -5.0 | -5.70 | 1.190 | 108.3 | 0.513 | 1.759 | 303.9 | 551.7 | 0.857 | 2.661 | -7.05 | 0.447 | 78.2 | 211.5 | -14.2 | 0.219 |
| 4- 710 | 4-1270 | 0.442 | 29.4 | -5.4 | -6.33 | 1.190 | 109.2 | 0.521 | 1.763 | 301.8 | 554.3 | 0.845 | 2.682 | -6.84 | 0.451 | 75.4 | 210.2 | -13.1 | 0.229 |
| 4- 710 | 4-1290 | 0.462 | 31.2 | -5.4 | -6.92 | 1.191 | 110.2 | 0.531 | 1.769 | 299.3 | 556.7 | 0.830 | 2.709 | -6.68 | 0.457 | 72.7 | 209.8 | -12.1 | 0.242 |
| 4- 710 | 4-1310 | 0.484 | 33.0 | -5.2 | -7.50 | 1.192 | 111.4 | 0.543 | 1.777 | 296.6 | 558.9 | 0.812 | 2.742 | -6.58 | 0.462 | 70.2 | 210.1 | -11.2 | 0.257 |
| 4- 710 | 4-1330 | 0.508 | 34.8 | -4.8 | -8.06 | 1.193 | 112.7 | 0.557 | 1.786 | 293.5 | 560.7 | 0.792 | 2.780 | -6.53 | 0.467 | 67.7 | 211.2 | -10.3 | 0.273 |
| 4- 710 | 4-1350 | 0.536 | 36.7 | -4.3 | -8.63 | 1.195 | 114.1 | 0.572 | 1.796 | 290.2 | 562.4 | 0.768 | 2.824 | -6.53 | 0.472 | 65.2 | 212.8 | -9.6 | 0.292 |
| 4- 710 | 4-1370 | 0.566 | 38.5 | -3.5 | -9.19 | 1.196 | 115.8 | 0.590 | 1.807 | 286.6 | 563.7 | 0.741 | 2.872 | -6.57 | 0.477 | 62.7 | 215.0 | -9.0 | 0.312 |
| 4- 710 | 4-1390 | 0.600 | 40.5 | -2.6 | -9.78 | 1.197 | 117.6 | 0.609 | 1.819 | 282.8 | 564.8 | 0.711 | 2.927 | -6.67 | 0.481 | 60.3 | 217.6 | -8.4 | 0.333 |
| 4- 710 | 4-1410 | 0.637 | 42.4 | -1.7 | -10.38 | 1.199 | 119.7 | 0.630 | 1.832 | 278.6 | 565.6 | 0.677 | 2.986 | -6.82 | 0.486 | 57.7 | 220.7 | -7.9 | 0.356 |
| 4- 720 | 4-1020 | 0.743 | 5.1 | 70.2 | 32.22 | 1.246 | 107.6 | 0.620 | 2.338 | 313.2 | 500.7 | 0.888 | --- | -41.81 | 0.543 | 127.0 | 229.2 | -31.9 | 0.547 |
| 4- 720 | 4-1040 | 0.519 | 7.3 | 50.3 | 17.22 | 1.231 | 106.3 | 0.581 | 2.153 | 314.9 | 506.0 | 0.901 | --- | -27.01 | 0.512 | 122.1 | 235.8 | -27.1 | 0.432 |
| 4- 720 | 4-1060 | 0.424 | 11.4 | 35.2 | 9.65 | 1.219 | 105.3 | 0.552 | 2.030 | 316.1 | 511.3 | 0.910 | --- | -19.63 | 0.488 | 117.2 | 238.1 | -23.6 | 0.364 |
| 4- 720 | 4-1080 | 0.379 | 14.8 | 24.0 | 5.19 | 1.211 | 104.6 | 0.529 | 1.947 | 317.0 | 516.3 | 0.917 | --- | -15.36 | 0.471 | 112.4 | 238.5 | -21.4 | 0.316 |
| 4- 720 | 4-1100 | 0.356 | 17.5 | 15.4 | 2.25 | 1.204 | 104.1 | 0.512 | 1.888 | 317.6 | 521.2 | 0.921 | --- | -12.63 | 0.458 | 107.7 | 237.7 | -20.0 | 0.280 |
| 4- 720 | 4-1120 | 0.345 | 19.9 | 9.0 | 0.16 | 1.199 | 103.7 | 0.500 | 1.847 | 317.9 | 525.9 | 0.924 | --- | -10.75 | 0.450 | 103.3 | 235.9 | -19.0 | 0.251 |
| 4- 720 | 4-1140 | 0.342 | 22.0 | 4.0 | -1.42 | 1.195 | 103.6 | 0.491 | 1.818 | 317.8 | 530.4 | 0.924 | --- | -9.39 | 0.445 | 99.1 | 233.3 | -18.2 | 0.230 |
| 4- 720 | 4-1160 | 0.343 | 24.0 | 0.3 | -2.66 | 1.193 | 103.6 | 0.486 | 1.798 | 317.5 | 534.6 | 0.924 | --- | -8.37 | 0.442 | 95.1 | 230.0 | -17.4 | 0.214 |
| 4- 720 | 4-1180 | 0.347 | 25.9 | -2.5 | -3.67 | 1.191 | 103.7 | 0.484 | 1.784 | 316.8 | 538.5 | 0.921 | --- | -7.58 | 0.442 | 91.4 | 226.3 | -16.6 | 0.204 |
| 4- 720 | 4-1200 | 0.354 | 27.7 | -4.6 | -4.53 | 1.190 | 104.0 | 0.483 | 1.776 | 315.9 | 542.2 | 0.918 | 2.635 | -6.96 | 0.443 | 88.0 | 222.6 | -15.7 | 0.199 |
| 4- 720 | 4-1220 | 0.363 | 29.6 | -6.0 | -5.27 | 1.190 | 104.5 | 0.485 | 1.773 | 314.6 | 545.6 | 0.912 | 2.633 | -6.48 | 0.446 | 84.8 | 219.1 | -14.6 | 0.198 |
| 4- 720 | 4-1240 | 0.375 | 31.4 | -6.9 | -5.92 | 1.189 | 105.0 | 0.489 | 1.772 | 313.0 | 548.8 | 0.905 | 2.639 | -6.09 | 0.449 | 81.8 | 216.2 | -13.5 | 0.202 |
| 4- 720 | 4-1260 | 0.389 | 33.2 | -7.4 | -6.50 | 1.190 | 105.7 | 0.495 | 1.774 | 311.1 | 551.7 | 0.896 | 2.652 | -5.78 | 0.454 | 79.0 | 214.1 | -12.4 | 0.208 |
| 4- 720 | 4-1280 | 0.404 | 35.0 | -7.5 | -7.04 | 1.190 | 106.5 | 0.502 | 1.778 | 309.0 | 554.4 | 0.885 | 2.671 | -5.53 | 0.458 | 76.4 | 212.8 | -11.4 | 0.218 |
| 4- 720 | 4-1300 | 0.422 | 36.8 | -7.3 | -7.54 | 1.191 | 107.5 | 0.511 | 1.784 | 306.5 | 556.8 | 0.872 | 2.697 | -5.34 | 0.463 | 73.9 | 212.3 | -10.4 | 0.230 |
| 4- 720 | 4-1320 | 0.442 | 38.7 | -6.9 | -8.02 | 1.192 | 108.6 | 0.522 | 1.792 | 303.8 | 559.0 | 0.857 | 2.727 | -5.20 | 0.468 | 71.5 | 212.6 | -9.5 | 0.244 |
| 4- 720 | 4-1340 | 0.465 | 40.5 | -6.2 | -8.47 | 1.193 | 109.8 | 0.534 | 1.801 | 300.9 | 561.0 | 0.839 | 2.763 | -5.11 | 0.473 | 69.1 | 213.6 | -8.7 | 0.259 |
| 4- 720 | 4-1360 | 0.489 | 42.4 | -5.4 | -8.91 | 1.195 | 111.2 | 0.548 | 1.811 | 297.6 | 562.7 | 0.819 | 2.803 | -5.05 | 0.478 | 66.9 | 215.2 | -8.0 | 0.276 |
| 4- 720 | 4-1380 | 0.517 | 44.2 | -4.4 | -9.35 | 1.196 | 112.7 | 0.564 | 1.822 | 294.1 | 564.1 | 0.795 | 2.849 | -5.03 | 0.482 | 64.6 | 217.2 | -7.4 | 0.295 |
| 4- 720 | 4-1400 | 0.547 | 46.1 | -3.3 | -9.79 | 1.197 | 114.4 | 0.581 | 1.834 | 290.4 | 565.3 | 0.768 | 2.899 | -5.05 | 0.486 | 62.4 | 219.8 | -6.9 | 0.314 |
| 4- 720 | 4-1420 | 0.580 | 48.1 | -2.1 | -10.24 | 1.199 | 116.2 | 0.600 | 1.847 | 286.3 | 566.3 | 0.738 | 2.955 | -5.11 | 0.490 | 60.1 | 222.7 | -6.5 | 0.335 |
| 4- 730 | 4- 970 | 0.673 | 53.7 | -29.3 | -23.07 | 1.319 | 108.6 | 0.790 | 4.267 | 317.6 | 482.8 | 0.896 | --- | 13.45 | 0.692 | 139.3 | 240.2 | 10.1 | 0.598 |
| 4- 730 | 4- 990 | 0.704 | 61.9 | -36.6 | -28.27 | 1.287 | 106.8 | 0.710 | 3.137 | 319.3 | 488.5 | 0.911 | --- | 18.52 | 0.631 | 134.9 | 240.2 | 15.3 | 0.538 |
| 4- 730 | 4-1010 | 0.848 | 78.9 | -43.4 | -39.50 | 1.262 | 105.1 | 0.647 | 2.620 | 321.1 | 494.2 | 0.924 | --- | 29.63 | 0.582 | 130.2 | 237.0 | 25.0 | 0.520 |
| 4- 730 | 4-1050 | 0.871 | 329.0 | 86.4 | 42.65 | 1.229 | 103.8 | 0.567 | 2.153 | 321.3 | 505.6 | 0.932 | --- | -52.77 | 0.514 | 121.1 | 224.8 | -37.4 | 0.578 |
| 4- 730 | 4-1070 | 0.455 | 6.0 | 53.7 | 15.88 | 1.218 | 102.7 | 0.537 | 2.034 | 323.2 | 510.9 | 0.942 | --- | -26.14 | 0.492 | 116.2 | 237.6 | -29.9 | 0.389 |
| 4- 730 | 4-1090 | 0.348 | 15.0 | 30.6 | 6.38 | 1.210 | 102.0 | 0.515 | 1.953 | 324.3 | 516.1 | 0.948 | --- | -16.77 | 0.475 | 111.5 | 240.2 | -23.8 | 0.316 |
| 4- 730 | 4-1110 | 0.317 | 20.2 | 15.6 | 1.76 | 1.203 | 101.5 | 0.498 | 1.896 | 324.9 | 521.1 | 0.952 | --- | -12.28 | 0.463 | 107.0 | 239.9 | -20.2 | 0.272 |
| 4- 730 | 4-1130 | 0.309 | 23.8 | 5.9 | -0.97 | 1.198 | 101.2 | 0.486 | 1.856 | 325.2 | 525.9 | 0.954 | --- | -9.69 | 0.455 | 102.7 | 238.2 | -18.0 | 0.242 |
| 4- 730 | 4-1150 | 0.308 | 26.5 | -0.4 | -2.78 | 1.195 | 101.1 | 0.478 | 1.828 | 325.2 | 530.4 | 0.954 | --- | -8.03 | 0.450 | 98.6 | 235.6 | -16.4 | 0.220 |
| 4- 730 | 4-1170 | 0.312 | 28.8 | -4.7 | -4.08 | 1.193 | 101.1 | 0.473 | 1.809 | 324.9 | 534.6 | 0.953 | --- | -6.87 | 0.448 | 94.8 | 232.3 | -15.1 | 0.205 |
| 4- 730 | 4-1190 | 0.318 | 30.9 | -7.6 | -5.07 | 1.191 | 101.3 | 0.470 | 1.796 | 324.2 | 538.6 | 0.951 | --- | -6.03 | 0.448 | 91.3 | 228.6 | -14.0 | 0.195 |
| 4- 730 | 4-1210 | 0.326 | 32.9 | -9.5 | -5.85 | 1.190 | 101.6 | 0.470 | 1.789 | 323.2 | 542.3 | 0.948 | 2.629 | -5.40 | 0.450 | 88.0 | 224.8 | -12.9 | 0.190 |
| 4- 730 | 4-1230 | 0.335 | 34.8 | -10.7 | -6.50 | 1.190 | 102.0 | 0.471 | 1.785 | 321.9 | 545.7 | 0.944 | 2.627 | -4.92 | 0.452 | 85.0 | 221.3 | -11.8 | 0.189 |
| 4- 730 | 4-1250 | 0.346 | 36.7 | -11.2 | -7.05 | 1.190 | 102.5 | 0.475 | 1.785 | 320.3 | 548.9 | 0.937 | 2.633 | -4.54 | 0.456 | 82.1 | 218.5 | -10.7 | 0.193 |
| 4- 730 | 4-1270 | 0.359 | 38.5 | -11.3 | -7.52 | 1.190 | 103.2 | 0.480 | 1.787 | 318.4 | 551.8 | 0.930 | 2.645 | -4.24 | 0.460 | 79.5 | 216.4 | -9.6 | 0.199 |
| 4- 730 | 4-1290 | 0.373 | 40.4 | -11.0 | -7.95 | 1.190 | 104.0 | 0.486 | 1.792 | 316.2 | 554.5 | 0.921 | 2.663 | -4.00 | 0.464 | 77.0 | 215.1 | -8.7 | 0.209 |
| 4- 730 | 4-1310 | 0.389 | 42.2 | -10.4 | -8.33 | 1.191 | 104.9 | 0.494 | 1.798 | 313.8 | 557.0 | 0.910 | 2.687 | -3.81 | 0.469 | 74.7 | 214.6 | -7.9 | 0.220 |
| 4- 730 | 4-1330 | 0.407 | 44.1 | -9.6 | -8.68 | 1.192 | 105.9 | 0.504 | 1.806 | 311.1 | 559.2 | 0.896 | 2.716 | -3.67 | 0.474 | 72.5 | 214.9 | -7.1 | 0.233 |
| 4- 730 | 4-1350 | 0.426 | 45.9 | -8.6 | -9.01 | 1.193 | 107.1 | 0.515 | 1.815 | 308.1 | 561.2 | 0.881 | 2.750 | -3.56 | 0.478 | 70.3 | 215.9 | -6.5 | 0.248 |
| 4- 730 | 4-1370 | 0.448 | 47.8 | -7.4 | -9.33 | 1.195 | 108.4 | 0.527 | 1.826 | 304.9 | 563.0 | 0.863 | 2.788 | -3.48 | 0.483 | 68.2 | 217.4 | -5.9 | 0.264 |
| 4- 730 | 4-1390 | 0.472 | 49.7 | -6.1 | -9.63 | 1.196 | 109.8 | 0.541 | 1.837 | 301.5 | 564.5 | 0.843 | 2.830 | -3.43 | 0.487 | 66.2 | 219.4 | -5.5 | 0.280 |
| 4- 730 | 4-1410 | 0.499 | 51.6 | -4.7 | -9.93 | 1.198 | 111.3 | 0.557 | 1.849 | 297.8 | 565.8 | 0.820 | 2.878 | -3.40 | 0.491 | 64.1 | 221.9 | -5.0 | 0.298 |
| 4- 730 | 4-1430 | 0.528 | 53.5 | -3.2 | -10.23 | 1.199 | 113.1 | 0.574 | 1.861 | 293.9 | 566.9 | 0.793 | 2.930 | -3.41 | 0.495 | 62.0 | 224.8 | -4.7 | 0.317 |
| 4- 740 | 4- 960 | 0.586 | 46.5 | -16.1 | -13.94 | 1.355 | 107.6 | 0.877 | 7.429 | 322.3 | 476.4 | 0.916 | --- | 3.86 | 0.759 | 142.1 | 242.2 | 2.7 | 0.656 |
| 4- 740 | 4- 980 | 0.540 | 47.6 | -20.4 | -14.70 | 1.314 | 105.6 | 0.772 | 4.080 | 324.0 | 482.2 | 0.930 | --- | 4.55 | 0.685 | 138.0 | 243.6 | 3.7 | 0.571 |
| 4- 740 | 4-1000 | 0.511 | 49.1 | -25.3 | -15.79 | 1.283 | 103.9 | 0.693 | 3.065 | 325.7 | 488.1 | 0.942 | --- | 5.58 | 0.626 | 133.6 | 244.7 | 5.1 | 0.500 |
| 4- 740 | 4-1020 | 0.502 | 51.8 | -30.9 | -17.57 | 1.259 | 102.5 | 0.632 | 2.585 | 327.4 | 494.0 | 0.952 | --- | 7.30 | 0.580 | 129.0 | 245.4 | 7.4 | 0.442 |
| 4- 740 | 4-1040 | 0.526 | 57.5 | -38.0 | -20.99 | 1.241 | 101.4 | 0.585 | 2.314 | 329.0 | 499.8 | 0.961 | --- | 10.65 | 0.543 | 124.3 | 245.3 | 12.1 | 0.396 |
| 4- 740 | 4-1060 | 0.653 | 73.4 | -47.2 | -30.27 | 1.227 | 100.4 | 0.549 | 2.144 | 330.5 | 505.5 | 0.968 | --- | 19.87 | 0.514 | 119.6 | 242.6 | 23.4 | 0.384 |
| 4- 740 | 4-1100 | 0.364 | 6.9 | 48.9 | 11.61 | 1.208 | 99.3 | 0.501 | 1.954 | 331.9 | 516.3 | 0.974 | --- | -22.14 | 0.477 | 110.4 | 239.9 | -30.2 | 0.335 |
| 4- 740 | 4-1120 | 0.280 | 22.7 | 11.7 | 0.49 | 1.202 | 98.9 | 0.486 | 1.899 | 332.6 | 521.4 | 0.977 | --- | -11.09 | 0.466 | 106.0 | 241.9 | -19.2 | 0.262 |
| 4- 740 | 4-1140 | 0.281 | 28.5 | -3.4 | -3.31 | 1.198 | 98.6 | 0.474 | 1.861 | 332.9 | 526.2 | 0.979 | --- | -7.36 | 0.459 | 101.8 | 240.3 | -14.5 | 0.229 |
| 4- 740 | 4-1160 | 0.287 | 31.9 | -10.5 | -5.22 | 1.195 | 98.6 | 0.467 | 1.835 | 332.9 | 530.7 | 0.979 | --- | -5.51 | 0.455 | 97.9 | 237.5 | -12.0 | 0.208 |
| 4- 740 | 4-1180 | 0.294 | 34.3 | -14.4 | -6.39 | 1.192 | 98.6 | 0.462 | 1.817 | 332.5 | 535.0 | 0.978 | --- | -4.42 | 0.453 | 94.3 | 234.0 | -10.3 | 0.194 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 740 | 4-1200 | 0.302 | 36.3 | -16.6 | -7.18 | 1.191 | 98.8 | 0.459 | 1.805 | 331.7 | 538.9 | 0.976 | --- | -3.70 | 0.453 | 90.9 | 230.2 | -9.1 | 0.185 |
| 4- 740 | 4-1220 | 0.309 | 38.2 | -17.6 | -7.76 | 1.190 | 99.1 | 0.459 | 1.798 | 330.7 | 542.6 | 0.974 | 2.623 | -3.20 | 0.455 | 87.8 | 226.4 | -8.0 | 0.182 |
| 4- 740 | 4-1240 | 0.318 | 40.0 | -18.0 | -8.20 | 1.190 | 99.5 | 0.460 | 1.796 | 329.3 | 546.0 | 0.970 | 2.622 | -2.83 | 0.458 | 84.9 | 223.0 | -7.1 | 0.182 |
| 4- 740 | 4-1260 | 0.327 | 41.8 | -17.8 | -8.56 | 1.190 | 100.1 | 0.463 | 1.796 | 327.7 | 549.2 | 0.965 | 2.628 | -2.55 | 0.461 | 82.2 | 220.2 | -6.3 | 0.186 |
| 4- 740 | 4-1280 | 0.338 | 43.6 | -17.2 | -8.86 | 1.190 | 100.7 | 0.467 | 1.799 | 325.8 | 552.1 | 0.958 | 2.640 | -2.34 | 0.465 | 79.8 | 218.2 | -5.6 | 0.192 |
| 4- 740 | 4-1300 | 0.350 | 45.4 | -16.2 | -9.12 | 1.191 | 101.5 | 0.473 | 1.804 | 323.6 | 554.8 | 0.951 | 2.658 | -2.17 | 0.470 | 77.4 | 217.0 | -4.9 | 0.202 |
| 4- 740 | 4-1320 | 0.363 | 47.2 | -15.0 | -9.34 | 1.192 | 102.4 | 0.480 | 1.811 | 321.1 | 557.2 | 0.941 | 2.681 | -2.03 | 0.474 | 75.3 | 216.6 | -4.4 | 0.213 |
| 4- 740 | 4-1340 | 0.378 | 49.1 | -13.6 | -9.54 | 1.193 | 103.4 | 0.489 | 1.819 | 318.4 | 559.5 | 0.930 | 2.709 | -1.93 | 0.479 | 73.2 | 217.0 | -3.9 | 0.225 |
| 4- 740 | 4-1360 | 0.395 | 51.0 | -12.1 | -9.72 | 1.194 | 104.5 | 0.498 | 1.829 | 315.4 | 561.5 | 0.917 | 2.740 | -1.85 | 0.483 | 71.2 | 218.0 | -3.5 | 0.239 |
| 4- 740 | 4-1380 | 0.414 | 52.9 | -10.4 | -9.89 | 1.195 | 105.7 | 0.510 | 1.839 | 312.2 | 563.3 | 0.902 | 2.777 | -1.79 | 0.487 | 69.3 | 219.5 | -3.2 | 0.254 |
| 4- 740 | 4-1400 | 0.434 | 54.8 | -8.7 | -10.05 | 1.196 | 107.0 | 0.522 | 1.851 | 308.8 | 564.9 | 0.885 | 2.817 | -1.74 | 0.491 | 67.4 | 221.6 | -2.9 | 0.269 |
| 4- 740 | 4-1420 | 0.457 | 56.7 | -6.9 | -10.21 | 1.198 | 108.5 | 0.536 | 1.863 | 305.2 | 566.2 | 0.864 | 2.861 | -1.71 | 0.495 | 65.5 | 224.1 | -2.7 | 0.286 |
| 4- 740 | 4-1440 | 0.483 | 58.7 | -5.0 | -10.36 | 1.199 | 110.1 | 0.551 | 1.876 | 301.3 | 567.4 | 0.841 | 2.910 | -1.69 | 0.499 | 63.6 | 226.9 | -2.5 | 0.303 |
| 4- 750 | 4- 950 | 0.577 | 46.0 | -9.0 | -10.52 | 1.400 | 106.3 | 0.99 | 222.005 | 327.4 | 470.0 | 0.936 | --- | -0.11 | 0.837 | 144.7 | 242.9 | -0.1 | 0.734 |
| 4- 750 | 4- 970 | 0.510 | 45.6 | -11.9 | -10.51 | 1.347 | 104.2 | 0.854 | 6.497 | 329.1 | 475.9 | 0.949 | --- | -0.12 | 0.748 | 140.8 | 244.5 | -0.1 | 0.634 |
| 4- 750 | 4- 990 | 0.458 | 45.1 | -14.9 | -10.49 | 1.308 | 102.4 | 0.751 | 3.856 | 331.0 | 481.9 | 0.961 | --- | -0.13 | 0.676 | 136.6 | 245.8 | -0.1 | 0.552 |
| 4- 750 | 4-1010 | 0.418 | 44.3 | -17.8 | -10.47 | 1.278 | 100.9 | 0.673 | 2.968 | 332.9 | 488.0 | 0.971 | --- | -0.15 | 0.620 | 132.2 | 246.9 | -0.1 | 0.482 |
| 4- 750 | 4-1030 | 0.388 | 43.6 | -20.5 | -10.44 | 1.255 | 99.6 | 0.614 | 2.535 | 334.7 | 494.2 | 0.979 | --- | -0.18 | 0.575 | 127.6 | 247.7 | -0.2 | 0.422 |
| 4- 750 | 4-1050 | 0.364 | 42.8 | -22.9 | -10.39 | 1.238 | 98.5 | 0.569 | 2.284 | 336.4 | 500.2 | 0.985 | --- | -0.23 | 0.540 | 122.9 | 248.1 | -0.3 | 0.371 |
| 4- 750 | 4-1070 | 0.346 | 42.0 | -24.9 | -10.30 | 1.224 | 97.7 | 0.535 | 2.126 | 337.9 | 506.0 | 0.990 | --- | -0.31 | 0.513 | 118.2 | 248.1 | -0.4 | 0.328 |
| 4- 750 | 4-1090 | 0.331 | 41.1 | -26.2 | -10.12 | 1.214 | 97.0 | 0.509 | 2.021 | 339.1 | 511.7 | 0.993 | --- | -0.49 | 0.493 | 113.6 | 247.5 | -0.8 | 0.290 |
| 4- 750 | 4-1110 | 0.313 | 39.4 | -25.6 | -9.38 | 1.207 | 96.5 | 0.489 | 1.949 | 340.0 | 517.0 | 0.996 | --- | -1.22 | 0.478 | 109.2 | 246.3 | -2.1 | 0.259 |
| 4- 750 | 4-1130 | 0.351 | 46.0 | -35.7 | -13.04 | 1.201 | 96.2 | 0.475 | 1.898 | 340.6 | 522.1 | 0.997 | --- | 2.43 | 0.468 | 104.9 | 244.4 | 4.7 | 0.234 |
| 4- 750 | 4-1150 | 0.323 | 42.7 | -32.1 | -11.21 | 1.197 | 96.0 | 0.464 | 1.863 | 340.8 | 526.9 | 0.998 | --- | 0.61 | 0.461 | 100.9 | 241.9 | 1.3 | 0.212 |
| 4- 750 | 4-1170 | 0.318 | 42.5 | -31.6 | -10.95 | 1.194 | 96.0 | 0.457 | 1.838 | 340.7 | 531.4 | 0.998 | --- | 0.35 | 0.458 | 97.1 | 238.7 | 0.8 | 0.196 |
| 4- 750 | 4-1190 | 0.316 | 42.9 | -31.2 | -10.84 | 1.192 | 96.1 | 0.453 | 1.822 | 340.3 | 535.6 | 0.997 | --- | 0.24 | 0.457 | 93.6 | 235.0 | 0.6 | 0.185 |
| 4- 750 | 4-1210 | 0.316 | 43.5 | -30.5 | -10.78 | 1.191 | 96.3 | 0.450 | 1.811 | 339.5 | 539.5 | 0.996 | --- | 0.19 | 0.457 | 90.4 | 231.1 | 0.5 | 0.178 |
| 4- 750 | 4-1230 | 0.317 | 44.5 | -29.5 | -10.75 | 1.190 | 96.7 | 0.450 | 1.806 | 338.3 | 543.2 | 0.993 | 2.619 | 0.15 | 0.459 | 87.4 | 227.4 | 0.4 | 0.176 |
| 4- 750 | 4-1250 | 0.320 | 45.6 | -28.3 | -10.72 | 1.190 | 97.1 | 0.451 | 1.804 | 336.9 | 546.6 | 0.990 | 2.618 | 0.13 | 0.462 | 84.7 | 224.1 | 0.3 | 0.177 |
| 4- 750 | 4-1270 | 0.325 | 47.0 | -26.9 | -10.70 | 1.190 | 97.7 | 0.454 | 1.806 | 335.2 | 549.7 | 0.986 | 2.625 | 0.11 | 0.466 | 82.1 | 221.5 | 0.3 | 0.181 |
| 4- 750 | 4-1290 | 0.331 | 48.5 | -25.2 | -10.69 | 1.190 | 98.3 | 0.458 | 1.809 | 333.2 | 552.6 | 0.981 | 2.638 | 0.10 | 0.470 | 79.8 | 219.7 | 0.2 | 0.188 |
| 4- 750 | 4-1310 | 0.338 | 50.1 | -23.3 | -10.67 | 1.191 | 99.1 | 0.463 | 1.815 | 330.9 | 555.2 | 0.975 | 2.655 | 0.09 | 0.474 | 77.6 | 218.6 | 0.2 | 0.197 |
| 4- 750 | 4-1330 | 0.348 | 51.8 | -21.3 | -10.66 | 1.192 | 100.0 | 0.469 | 1.823 | 328.4 | 557.6 | 0.968 | 2.678 | 0.08 | 0.479 | 75.6 | 218.4 | 0.2 | 0.208 |
| 4- 750 | 4-1350 | 0.359 | 53.6 | -19.2 | -10.65 | 1.193 | 100.9 | 0.477 | 1.831 | 325.7 | 559.8 | 0.959 | 2.704 | 0.08 | 0.483 | 73.7 | 218.9 | 0.2 | 0.220 |
| 4- 750 | 4-1370 | 0.371 | 55.5 | -17.0 | -10.65 | 1.194 | 102.0 | 0.485 | 1.841 | 322.7 | 561.8 | 0.948 | 2.735 | 0.07 | 0.487 | 71.8 | 220.0 | 0.1 | 0.233 |
| 4- 750 | 4-1390 | 0.386 | 57.4 | -14.7 | -10.64 | 1.196 | 103.1 | 0.495 | 1.852 | 319.5 | 563.6 | 0.935 | 2.769 | 0.07 | 0.492 | 70.0 | 221.6 | 0.1 | 0.247 |
| 4- 750 | 4-1410 | 0.403 | 59.4 | -12.4 | -10.63 | 1.197 | 104.4 | 0.506 | 1.864 | 316.1 | 565.2 | 0.920 | 2.808 | 0.07 | 0.495 | 68.3 | 223.7 | 0.1 | 0.261 |
| 4- 750 | 4-1430 | 0.422 | 61.4 | -10.0 | -10.63 | 1.199 | 105.8 | 0.519 | 1.876 | 312.5 | 566.6 | 0.903 | 2.850 | 0.07 | 0.499 | 66.6 | 226.2 | 0.1 | 0.277 |
| 4- 750 | 4-1450 | 0.443 | 63.4 | -7.7 | -10.62 | 1.200 | 107.3 | 0.533 | 1.889 | 308.7 | 567.8 | 0.883 | 2.896 | 0.07 | 0.502 | 64.8 | 229.0 | 0.1 | 0.293 |
| 4- 760 | 4- 940 | 0.594 | 46.7 | -4.8 | -8.87 | 1.457 | 104.6 | 1.148 | -6.462 | 332.7 | 463.8 | 0.956 | --- | -2.41 | 0.928 | 146.9 | 243.5 | -1.5 | 0.825 |
| 4- 760 | 4- 960 | 0.511 | 45.7 | -7.2 | -8.62 | 1.389 | 102.5 | 0.962 | 25.301 | 334.5 | 469.8 | 0.968 | --- | -2.58 | 0.819 | 143.3 | 245.0 | -1.8 | 0.708 |
| 4- 760 | 4- 980 | 0.447 | 44.3 | -9.6 | -8.34 | 1.338 | 100.6 | 0.826 | 5.637 | 336.5 | 475.9 | 0.978 | --- | -2.79 | 0.733 | 139.3 | 246.4 | -2.2 | 0.612 |
| 4- 760 | 4-1000 | 0.397 | 42.6 | -11.7 | -7.99 | 1.300 | 99.0 | 0.726 | 3.608 | 338.6 | 482.2 | 0.987 | --- | -3.06 | 0.665 | 135.1 | 247.6 | -2.7 | 0.532 |
| 4- 760 | 4-1020 | 0.357 | 40.4 | -13.5 | -7.57 | 1.272 | 97.6 | 0.652 | 2.854 | 340.8 | 488.6 | 0.994 | --- | -3.41 | 0.610 | 130.6 | 248.5 | -3.4 | 0.465 |
| 4- 760 | 4-1040 | 0.325 | 38.0 | -14.5 | -7.02 | 1.250 | 96.4 | 0.595 | 2.470 | 342.8 | 494.9 | 0.999 | --- | -3.88 | 0.568 | 126.0 | 249.1 | -4.4 | 0.408 |
| 4- 760 | 4-1060 | 0.298 | 35.2 | -14.5 | -6.29 | 1.234 | 95.5 | 0.553 | 2.245 | 344.6 | 501.1 | 1.004 | --- | -4.54 | 0.534 | 121.4 | 249.3 | -5.8 | 0.359 |
| 4- 760 | 4-1080 | 0.274 | 31.8 | -12.6 | -5.23 | 1.221 | 94.7 | 0.521 | 2.101 | 346.2 | 507.1 | 1.006 | --- | -5.53 | 0.509 | 116.7 | 249.0 | -7.9 | 0.319 |
| 4- 760 | 4-1100 | 0.252 | 27.4 | -7.2 | -3.55 | 1.212 | 94.1 | 0.497 | 2.004 | 347.5 | 512.8 | 1.008 | --- | -7.14 | 0.490 | 112.2 | 247.9 | -11.4 | 0.287 |
| 4- 760 | 4-1120 | 0.233 | 20.2 | 6.2 | -0.42 | 1.205 | 93.7 | 0.479 | 1.938 | 348.5 | 518.2 | 1.010 | --- | -10.19 | 0.477 | 107.8 | 245.9 | -17.6 | 0.266 |
| 4- 760 | 4-1140 | 0.267 | 2.6 | 40.4 | 7.45 | 1.200 | 93.4 | 0.466 | 1.892 | 349.2 | 523.3 | 1.011 | --- | -17.99 | 0.468 | 103.6 | 241.4 | -30.2 | 0.279 |
| 4- 760 | 4-1160 | 0.954 | 233.5 | 66.3 | 50.70 | 1.196 | 93.0 | 0.456 | 1.860 | 350.3 | 528.2 | 1.012 | --- | -61.17 | 0.463 | 99.6 | 223.1 | -43.6 | 0.580 |
| 4- 760 | 4-1180 | 0.719 | 95.1 | -60.2 | -36.85 | 1.193 | 93.6 | 0.450 | 1.838 | 348.3 | 532.4 | 1.010 | --- | 26.46 | 0.460 | 96.1 | 233.6 | 41.0 | 0.311 |
| 4- 760 | 4-1200 | 0.478 | 66.2 | -54.1 | -22.63 | 1.191 | 93.7 | 0.446 | 1.823 | 348.0 | 536.6 | 1.010 | --- | 12.31 | 0.459 | 92.8 | 234.2 | 27.1 | 0.215 |
| 4- 760 | 4-1220 | 0.407 | 57.7 | -48.8 | -18.21 | 1.190 | 93.9 | 0.444 | 1.815 | 347.2 | 540.4 | 1.009 | 2.621 | 7.96 | 0.460 | 89.7 | 231.1 | 19.6 | 0.191 |
| 4- 760 | 4-1240 | 0.375 | 54.3 | -44.7 | -16.06 | 1.190 | 94.3 | 0.444 | 1.811 | 346.1 | 544.0 | 1.007 | 2.615 | 5.89 | 0.463 | 86.8 | 227.8 | 15.1 | 0.182 |
| 4- 760 | 4-1260 | 0.358 | 53.1 | -41.3 | -14.78 | 1.190 | 94.7 | 0.445 | 1.811 | 344.5 | 547.3 | 1.005 | 2.616 | 4.69 | 0.466 | 84.2 | 224.8 | 12.1 | 0.181 |
| 4- 760 | 4-1280 | 0.349 | 53.0 | -38.2 | -13.92 | 1.190 | 95.3 | 0.447 | 1.813 | 342.8 | 550.3 | 1.002 | 2.624 | 3.92 | 0.470 | 81.8 | 222.4 | 9.9 | 0.184 |
| 4- 760 | 4-1300 | 0.345 | 53.6 | -35.2 | -13.30 | 1.191 | 96.0 | 0.451 | 1.818 | 340.7 | 553.2 | 0.999 | 2.637 | 3.38 | 0.474 | 79.6 | 220.9 | 8.3 | 0.190 |
| 4- 760 | 4-1320 | 0.344 | 54.6 | -32.2 | -12.83 | 1.192 | 96.7 | 0.455 | 1.824 | 338.4 | 555.7 | 0.994 | 2.655 | 2.99 | 0.478 | 77.6 | 220.1 | 7.1 | 0.198 |
| 4- 760 | 4-1340 | 0.346 | 56.0 | -29.2 | -12.44 | 1.193 | 97.6 | 0.461 | 1.833 | 335.8 | 558.1 | 0.988 | 2.677 | 2.69 | 0.483 | 75.7 | 220.0 | 6.1 | 0.208 |
| 4- 760 | 4-1360 | 0.351 | 57.6 | -26.2 | -12.13 | 1.194 | 98.5 | 0.467 | 1.842 | 333.0 | 560.3 | 0.981 | 2.703 | 2.47 | 0.487 | 73.9 | 220.6 | 5.3 | 0.219 |
| 4- 760 | 4-1380 | 0.358 | 59.4 | -23.2 | -11.86 | 1.195 | 99.6 | 0.475 | 1.853 | 330.0 | 562.3 | 0.973 | 2.733 | 2.29 | 0.491 | 72.2 | 221.9 | 4.7 | 0.231 |
| 4- 760 | 4-1400 | 0.367 | 61.3 | -20.2 | -11.62 | 1.196 | 100.7 | 0.484 | 1.864 | 326.8 | 564.0 | 0.962 | 2.766 | 2.16 | 0.495 | 70.6 | 223.6 | 4.1 | 0.243 |
| 4- 760 | 4-1420 | 0.379 | 63.3 | -17.2 | -11.41 | 1.198 | 101.9 | 0.494 | 1.876 | 323.4 | 565.6 | 0.950 | 2.802 | 2.05 | 0.499 | 69.0 | 225.7 | 3.7 | 0.257 |
| 4- 760 | 4-1440 | 0.394 | 65.4 | -14.3 | -11.21 | 1.199 | 103.2 | 0.505 | 1.889 | 319.8 | 567.0 | 0.936 | 2.842 | 1.97 | 0.502 | 67.4 | 228.2 | 3.4 | 0.271 |
| 4- 760 | 4-1460 | 0.411 | 67.6 | -11.4 | -11.03 | 1.201 | 104.7 | 0.517 | 1.903 | 316.0 | 568.2 | 0.919 | 2.886 | 1.90 | 0.506 | 65.8 | 231.1 | 3.1 | 0.285 |
| 4- 770 | 4- 930 | 0.631 | 47.2 | -2.4 | -8.01 | 1.529 | 102.5 | 1.361 | -2.702 | 338.3 | 457.9 | 0.975 | --- | -4.04 | 1.037 | 148.9 | 243.9 | -2.3 | 0.933 |
| 4- 770 | 4- 950 | 0.530 | 45.9 | -4.5 | -7.66 | 1.440 | 100.4 | 1.105 | -9.405 | 340.1 | 463.9 | 0.985 | --- | -4.22 | 0.903 | 145.6 | 245.4 | -2.7 | 0.793 |
| 4- 770 | 4- 970 | 0.453 | 43.9 | -6.7 | -7.28 | 1.375 | 98.5 | 0.92 | 513.216 | 342.3 | 470.1 | 0.994 | --- | -4.45 | 0.798 | 141.9 | 246.8 | -3.2 | 0.681 |
| 4- 770 | 4- 990 | 0.394 | 41.4 | -8.7 | -6.84 | 1.328 | 96.8 | 0.795 | 4.881 | 344.6 | 476.6 | 1.001 | --- | -4.73 | 0.715 | 137.8 | 248.0 | -3.9 | 0.588 |
| 4- 770 | 4-1010 | 0.349 | 38.4 | -10.3 | -6.34 | 1.292 | 95.3 | 0.700 | 3.353 | 347.0 | 483.2 | 1.006 | --- | -5.08 | 0.650 | 133.5 | 249.0 | -4.7 | 0.511 |
| 4- 770 | 4-1030 | 0.314 | 35.0 | -11.3 | -5.75 | 1.265 | 94.1 | 0.630 | 2.726 | 349.4 | 489.9 | 1.010 | --- | -5.52 | 0.598 | 129.0 | 249.8 | -5.8 | 0.447 |
| 4- 770 | 4-1050 | 0.285 | 31.3 | -11.3 | -5.03 | 1.245 | 93.1 | 0.577 | 2.395 | 351.6 | 496.4 | 1.013 | --- | -6.10 | 0.558 | 124.4 | 250.1 | -7.2 | 0.392 |
| 4- 770 | 4-1070 | 0.262 | 27.2 | -9.9 | -4.12 | 1.230 | 92.3 | 0.538 | 2.196 | 353.6 | 502.7 | 1.015 | --- | -6.86 | 0.527 | 119.7 | 250.0 | -9.1 | 0.347 |
| 4- 770 | 4-1090 | 0.243 | 22.8 | -6.5 | -2.94 | 1.218 | 91.6 | 0.509 | 2.068 | 355.2 | 508.8 | 1.016 | --- | -7.90 | 0.504 | 115.0 | 249.3 | -11.7 | 0.310 |
| 4- 770 | 4-1110 | 0.228 | 17.7 | 0.0 | -1.31 | 1.209 | 91.1 | 0.487 | 1.981 | 356.5 | 514.5 | 1.016 | --- | -9.39 | 0.487 | 110.5 | 247.9 | -15.3 | 0.281 |
| 4- 770 | 4-1130 | 0.221 | 11.1 | 11.4 | 1.13 | 1.203 | 90.8 | 0.471 | 1.922 | 357.5 | 519.9 | 1.016 | --- | -11.68 | 0.475 | 106.2 | 245.6 | -20.6 | 0.262 |
| 4- 770 | 4-1150 | 0.236 | 0.7 | 30.3 | 5.19 | 1.198 | 90.6 | 0.460 | 1.881 | 358.1 | 524.9 | 1.017 | --- | -15.60 | 0.467 | 102.1 | 242.1 | -28.2 | 0.260 |
| 4- 770 | 4-1170 | 0.329 | 337.8 | 55.0 | 13.33 | 1.195 | 90.5 | 0.451 | 1.853 | 358.5 | 529.7 | 1.017 | --- | -23.59 | 0.463 | 98.3 | 236.6 | -38.3 | 0.295 |
| 4- 770 | 4-1190 | 0.698 | 266.4 | 66.8 | 35.79 | 1.192 | 90.3 | 0.446 | 1.834 | 359.0 | 534.1 | 1.017 | --- | -45.91 | 0.461 | 94.7 | 227.6 | -46.1 | 0.458 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 770 | 4-1210 | 1.401 | 153.6 | -52.5 | -79.58 | 1.191 | 91.9 | 0.443 | 1.822 | 353.7 | 537.5 | 1.015 | --- | 69.60 | 0.461 | 92.0 | 224.9 | 42.3 | 0.641 |
| 4- 770 | 4-1230 | 0.768 | 103.3 | -64.2 | -39.97 | 1.190 | 91.7 | 0.441 | 1.816 | 354.5 | 541.5 | 1.015 | 2.616 | 30.14 | 0.463 | 88.8 | 229.2 | 44.6 | 0.331 |
| 4- 770 | 4-1250 | 0.559 | 77.2 | -60.5 | -27.71 | 1.190 | 92.0 | 0.440 | 1.813 | 353.6 | 545.0 | 1.015 | 2.612 | 18.03 | 0.465 | 86.1 | 227.8 | 36.3 | 0.243 |
| 4- 770 | 4-1270 | 0.469 | 66.5 | -55.4 | -22.30 | 1.190 | 92.4 | 0.441 | 1.815 | 352.1 | 548.2 | 1.014 | 2.615 | 12.77 | 0.469 | 83.6 | 225.4 | 28.9 | 0.213 |
| 4- 770 | 4-1290 | 0.421 | 61.9 | -50.7 | -19.28 | 1.190 | 93.0 | 0.443 | 1.818 | 350.3 | 551.2 | 1.012 | 2.624 | 9.90 | 0.473 | 81.4 | 223.4 | 23.3 | 0.203 |
| 4- 770 | 4-1310 | 0.393 | 59.9 | -46.4 | -17.33 | 1.191 | 93.6 | 0.446 | 1.824 | 348.2 | 553.9 | 1.010 | 2.638 | 8.11 | 0.477 | 79.3 | 222.1 | 19.1 | 0.203 |
| 4- 770 | 4-1330 | 0.375 | 59.5 | -42.4 | -15.97 | 1.192 | 94.4 | 0.450 | 1.832 | 345.8 | 556.4 | 1.007 | 2.657 | 6.91 | 0.482 | 77.4 | 221.5 | 15.9 | 0.207 |
| 4- 770 | 4-1350 | 0.365 | 60.0 | -38.4 | -14.94 | 1.193 | 95.2 | 0.455 | 1.841 | 343.2 | 558.7 | 1.003 | 2.679 | 6.05 | 0.486 | 75.6 | 221.6 | 13.4 | 0.214 |
| 4- 770 | 4-1370 | 0.359 | 61.1 | -34.6 | -14.14 | 1.195 | 96.2 | 0.461 | 1.851 | 340.3 | 560.8 | 0.998 | 2.704 | 5.41 | 0.490 | 74.0 | 222.4 | 11.5 | 0.223 |
| 4- 770 | 4-1390 | 0.358 | 62.6 | -30.7 | -13.48 | 1.196 | 97.2 | 0.468 | 1.863 | 337.3 | 562.7 | 0.992 | 2.733 | 4.93 | 0.495 | 72.4 | 223.7 | 10.0 | 0.233 |
| 4- 770 | 4-1410 | 0.360 | 64.5 | -27.0 | -12.92 | 1.197 | 98.3 | 0.475 | 1.875 | 334.0 | 564.5 | 0.984 | 2.766 | 4.56 | 0.499 | 70.9 | 225.6 | 8.8 | 0.244 |
| 4- 770 | 4-1430 | 0.365 | 66.5 | -23.2 | -12.44 | 1.199 | 99.5 | 0.484 | 1.888 | 330.6 | 566.0 | 0.974 | 2.801 | 4.27 | 0.502 | 69.4 | 227.8 | 7.9 | 0.256 |
| 4- 770 | 4-1450 | 0.374 | 68.7 | -19.6 | -12.01 | 1.200 | 100.8 | 0.494 | 1.901 | 327.0 | 567.4 | 0.963 | 2.839 | 4.04 | 0.505 | 68.0 | 230.3 | 7.1 | 0.268 |
| 4- 770 | 4-1470 | 0.385 | 71.0 | -16.0 | -11.63 | 1.202 | 102.1 | 0.504 | 1.915 | 323.3 | 568.6 | 0.949 | 2.881 | 3.86 | 0.508 | 66.5 | 233.2 | 6.4 | 0.281 |
| 4- 780 | 4- 940 | 0.568 | 45.4 | -2.9 | -7.21 | 1.505 | 97.9 | 1.297 | -3.362 | 346.1 | 458.3 | 1.000 | --- | -5.53 | 1.002 | 147.7 | 245.6 | -3.3 | 0.893 |
| 4- 780 | 4- 960 | 0.475 | 43.0 | -5.0 | -6.76 | 1.421 | 96.0 | 1.053 | 18.950 | 348.3 | 464.6 | 1.006 | --- | -5.71 | 0.874 | 144.2 | 247.0 | -3.8 | 0.759 |
| 4- 780 | 4- 980 | 0.407 | 39.8 | -7.0 | -6.28 | 1.361 | 94.3 | 0.883 | 8.607 | 350.8 | 471.3 | 1.010 | --- | -5.94 | 0.774 | 140.4 | 248.2 | -4.5 | 0.651 |
| 4- 780 | 4-1000 | 0.355 | 36.0 | -8.8 | -5.76 | 1.316 | 92.8 | 0.761 | 4.236 | 353.5 | 478.1 | 1.014 | --- | -6.22 | 0.695 | 136.3 | 249.3 | -5.3 | 0.563 |
| 4- 780 | 4-1020 | 0.317 | 31.8 | -9.9 | -5.17 | 1.283 | 91.5 | 0.672 | 3.100 | 356.2 | 485.1 | 1.016 | --- | -6.58 | 0.633 | 131.9 | 250.1 | -6.3 | 0.489 |
| 4- 780 | 4-1040 | 0.288 | 27.2 | -10.3 | -4.49 | 1.258 | 90.5 | 0.608 | 2.592 | 358.8 | 491.9 | 1.017 | --- | -7.02 | 0.584 | 127.3 | 250.5 | -7.6 | 0.428 |
| 4- 780 | 4-1060 | 0.265 | 22.5 | -9.5 | -3.71 | 1.239 | 89.6 | 0.560 | 2.311 | 1.1 | 138.6 | --- | --- | -7.58 | 0.546 | 122.6 | 250.6 | -9.3 | 0.376 |
| 4- 780 | 4-1080 | 0.248 | 17.8 | -7.4 | -2.77 | 1.225 | 88.9 | 0.525 | 2.140 | 3.2 | 145.0 | --- | --- | -8.29 | 0.518 | 117.9 | 250.1 | -11.4 | 0.334 |
| 4- 780 | 4-1100 | 0.235 | 13.0 | -3.5 | -1.62 | 1.214 | 88.4 | 0.499 | 2.028 | 4.9 | 151.1 | --- | --- | -9.22 | 0.496 | 113.2 | 249.1 | -14.1 | 0.299 |
| 4- 780 | 4-1120 | 0.226 | 8.1 | 2.6 | -0.15 | 1.206 | 88.0 | 0.480 | 1.953 | 6.1 | 156.8 | --- | --- | -10.47 | 0.481 | 108.7 | 247.3 | -17.7 | 0.273 |
| 4- 780 | 4-1140 | 0.224 | 2.4 | 11.7 | 1.81 | 1.201 | 87.8 | 0.467 | 1.901 | 7.0 | 162.1 | --- | --- | -12.22 | 0.471 | 104.5 | 244.8 | -22.2 | 0.256 |
| 4- 780 | 4-1160 | 0.235 | 355.2 | 24.3 | 4.59 | 1.196 | 87.7 | 0.457 | 1.866 | 7.4 | 167.0 | --- | --- | -14.79 | 0.465 | 100.5 | 241.4 | -27.8 | 0.250 |
| 4- 780 | 4-1180 | 0.273 | 344.0 | 40.2 | 8.89 | 1.194 | 87.7 | 0.450 | 1.842 | 7.6 | 171.6 | --- | --- | -18.88 | 0.461 | 96.8 | 237.3 | -34.6 | 0.261 |
| 4- 780 | 4-1200 | 0.375 | 322.3 | 56.0 | 16.42 | 1.192 | 87.7 | 0.445 | 1.827 | 7.5 | 175.8 | --- | --- | -26.20 | 0.460 | 93.3 | 232.5 | -41.8 | 0.304 |
| 4- 780 | 4-1220 | 0.637 | 277.5 | 62.8 | 32.24 | 1.190 | 87.7 | 0.442 | 1.818 | 7.5 | 179.8 | --- | --- | -41.81 | 0.461 | 90.1 | 228.0 | -46.6 | 0.423 |
| 4- 780 | 4-1260 | 1.137 | 144.6 | -64.1 | -62.20 | 1.190 | 90.2 | 0.439 | 1.813 | 359.5 | 545.9 | 1.017 | 2.610 | 53.07 | 0.467 | 85.4 | 229.2 | 46.0 | 0.517 |
| 4- 780 | 4-1280 | 0.760 | 102.4 | -67.5 | -39.48 | 1.190 | 90.3 | 0.440 | 1.816 | 359.1 | 549.2 | 1.017 | 2.616 | 30.57 | 0.471 | 82.9 | 227.8 | 44.7 | 0.338 |
| 4- 780 | 4-1300 | 0.589 | 80.2 | -63.3 | -29.52 | 1.191 | 90.8 | 0.442 | 1.821 | 357.5 | 552.1 | 1.016 | 2.626 | 20.83 | 0.475 | 80.8 | 225.6 | 38.3 | 0.269 |
| 4- 780 | 4-1320 | 0.500 | 70.5 | -58.1 | -24.20 | 1.192 | 91.4 | 0.445 | 1.829 | 355.5 | 554.7 | 1.016 | 2.642 | 15.73 | 0.480 | 78.8 | 224.1 | 31.9 | 0.242 |
| 4- 780 | 4-1340 | 0.447 | 66.2 | -53.1 | -20.90 | 1.193 | 92.1 | 0.448 | 1.838 | 353.1 | 557.1 | 1.014 | 2.661 | 12.66 | 0.484 | 77.0 | 223.4 | 26.5 | 0.232 |
| 4- 780 | 4-1360 | 0.413 | 64.6 | -48.3 | -18.65 | 1.194 | 93.0 | 0.452 | 1.848 | 350.5 | 559.4 | 1.012 | 2.683 | 10.64 | 0.489 | 75.3 | 223.6 | 22.2 | 0.231 |
| 4- 780 | 4-1380 | 0.391 | 64.5 | -43.6 | -17.00 | 1.196 | 93.9 | 0.457 | 1.859 | 347.6 | 561.4 | 1.009 | 2.709 | 9.23 | 0.493 | 73.8 | 224.4 | 18.9 | 0.235 |
| 4- 780 | 4-1400 | 0.376 | 65.4 | -39.1 | -15.72 | 1.197 | 94.9 | 0.463 | 1.871 | 344.6 | 563.3 | 1.005 | 2.737 | 8.20 | 0.497 | 72.4 | 225.8 | 16.3 | 0.241 |
| 4- 780 | 4-1420 | 0.367 | 66.9 | -34.6 | -14.69 | 1.199 | 95.9 | 0.470 | 1.884 | 341.3 | 565.0 | 0.999 | 2.769 | 7.42 | 0.501 | 71.0 | 227.6 | 14.2 | 0.250 |
| 4- 780 | 4-1440 | 0.364 | 68.8 | -30.2 | -13.83 | 1.200 | 97.1 | 0.477 | 1.898 | 337.9 | 566.5 | 0.992 | 2.803 | 6.82 | 0.505 | 69.6 | 229.9 | 12.5 | 0.259 |
| 4- 780 | 4-1460 | 0.364 | 71.0 | -25.9 | -13.09 | 1.202 | 98.3 | 0.485 | 1.912 | 334.3 | 567.8 | 0.984 | 2.840 | 6.36 | 0.508 | 68.3 | 232.5 | 11.2 | 0.270 |
| 4- 780 | 4-1480 | 0.369 | 73.4 | -21.7 | -12.45 | 1.203 | 99.7 | 0.495 | 1.926 | 330.5 | 569.1 | 0.973 | 2.880 | 6.00 | 0.511 | 67.0 | 235.4 | 10.1 | 0.281 |
| 4- 790 | 4- 930 | 0.631 | 44.1 | -2.0 | -7.08 | 1.589 | 94.6 | 1.562 | -1.799 | 352.4 | 453.2 | 1.011 | --- | -6.70 | 1.123 | 149.7 | 245.8 | -3.7 | 1.014 |
| 4- 790 | 4- 950 | 0.517 | 41.3 | -4.1 | -6.59 | 1.479 | 92.9 | 1.222 | -4.556 | 354.7 | 459.5 | 1.014 | --- | -6.81 | 0.964 | 146.5 | 247.1 | -4.3 | 0.851 |
| 4- 790 | 4- 970 | 0.436 | 37.6 | -6.2 | -6.07 | 1.401 | 91.3 | 0.995 | 92.792 | 357.3 | 466.2 | 1.015 | --- | -6.96 | 0.841 | 142.9 | 248.2 | -4.9 | 0.723 |
| 4- 790 | 4- 990 | 0.377 | 33.1 | -8.0 | -5.52 | 1.345 | 89.9 | 0.837 | 6.230 | 0.2 | 113.3 | --- | --- | -7.16 | 0.746 | 139.0 | 249.3 | -5.6 | 0.620 |
| 4- 790 | 4-1010 | 0.335 | 28.1 | -9.3 | -4.93 | 1.303 | 88.6 | 0.725 | 3.697 | 3.3 | 120.5 | --- | --- | -7.41 | 0.671 | 134.7 | 250.1 | -6.6 | 0.536 |
| 4- 790 | 4-1030 | 0.305 | 22.9 | -10.0 | -4.28 | 1.272 | 87.5 | 0.646 | 2.860 | 6.3 | 127.8 | --- | --- | -7.72 | 0.613 | 130.2 | 250.6 | -7.8 | 0.466 |
| 4- 790 | 4-1050 | 0.283 | 17.7 | -9.7 | -3.57 | 1.249 | 86.6 | 0.588 | 2.455 | 9.1 | 134.8 | --- | --- | -8.12 | 0.567 | 125.5 | 250.8 | -9.2 | 0.408 |
| 4- 790 | 4-1070 | 0.267 | 12.8 | -8.4 | -2.76 | 1.232 | 85.9 | 0.546 | 2.223 | 11.5 | 141.6 | --- | --- | -8.62 | 0.532 | 120.7 | 250.5 | -11.0 | 0.360 |
| 4- 790 | 4-1090 | 0.256 | 8.2 | -6.0 | -1.84 | 1.220 | 85.4 | 0.516 | 2.078 | 13.6 | 148.0 | --- | --- | -9.24 | 0.506 | 115.9 | 249.6 | -13.2 | 0.320 |
| 4- 790 | 4-1110 | 0.248 | 3.9 | -2.3 | -0.75 | 1.210 | 85.0 | 0.494 | 1.983 | 15.1 | 154.0 | --- | --- | -10.03 | 0.487 | 111.2 | 248.2 | -15.9 | 0.288 |
| 4- 790 | 4-1130 | 0.243 | 359.8 | 3.0 | 0.57 | 1.203 | 84.8 | 0.478 | 1.919 | 16.3 | 159.6 | --- | --- | -11.06 | 0.474 | 106.8 | 246.1 | -19.2 | 0.264 |
| 4- 790 | 4-1150 | 0.243 | 355.5 | 10.0 | 2.22 | 1.198 | 84.6 | 0.466 | 1.876 | 16.9 | 164.7 | --- | --- | -12.42 | 0.466 | 102.6 | 243.3 | -23.2 | 0.248 |
| 4- 790 | 4-1170 | 0.250 | 350.5 | 19.0 | 4.35 | 1.195 | 84.6 | 0.457 | 1.847 | 17.1 | 169.4 | --- | --- | -14.27 | 0.461 | 98.7 | 240.0 | -27.7 | 0.242 |
| 4- 790 | 4-1190 | 0.270 | 343.9 | 30.1 | 7.27 | 1.192 | 84.7 | 0.452 | 1.827 | 17.0 | 173.8 | --- | --- | -16.90 | 0.459 | 95.1 | 236.2 | -32.7 | 0.246 |
| 4- 790 | 4-1210 | 0.316 | 333.7 | 42.4 | 11.53 | 1.191 | 84.9 | 0.448 | 1.816 | 16.6 | 177.8 | --- | --- | -20.89 | 0.459 | 91.8 | 232.4 | -38.0 | 0.265 |
| 4- 790 | 4-1230 | 0.413 | 315.7 | 53.7 | 18.36 | 1.190 | 85.1 | 0.445 | 1.810 | 15.9 | 181.5 | --- | 2.616 | -27.44 | 0.461 | 88.8 | 229.2 | -43.1 | 0.311 |
| 4- 790 | 4-1250 | 0.616 | 284.7 | 58.9 | 30.73 | 1.190 | 85.3 | 0.444 | 1.809 | 15.4 | 185.1 | --- | 2.612 | -39.53 | 0.464 | 86.0 | 227.7 | -46.4 | 0.406 |
| 4- 790 | 4-1270 | 1.035 | 250.0 | 50.7 | 55.69 | 1.190 | 85.2 | 0.445 | 1.811 | 15.8 | 188.5 | --- | 2.617 | -64.21 | 0.468 | 83.3 | 229.5 | -43.7 | 0.606 |
| 4- 790 | 4-1310 | 0.991 | 133.1 | -70.9 | -53.12 | 1.192 | 88.9 | 0.443 | 1.822 | 3.6 | 192.9 | --- | 2.629 | 45.16 | 0.477 | 80.1 | 231.7 | 46.3 | 0.461 |
| 4- 790 | 4-1330 | 0.730 | 95.7 | -69.4 | -37.68 | 1.193 | 89.3 | 0.445 | 1.831 | 2.3 | 195.6 | --- | 2.647 | 30.01 | 0.481 | 78.2 | 228.8 | 43.2 | 0.344 |
| 4- 790 | 4-1350 | 0.591 | 78.6 | -64.0 | -29.51 | 1.194 | 89.9 | 0.448 | 1.841 | 0.2 | 197.9 | --- | 2.667 | 22.13 | 0.486 | 76.5 | 227.0 | 37.6 | 0.292 |
| 4- 790 | 4-1370 | 0.508 | 71.4 | -58.4 | -24.59 | 1.195 | 90.7 | 0.452 | 1.853 | 357.7 | 560.1 | 1.016 | 2.690 | 17.51 | 0.491 | 74.9 | 226.5 | 32.0 | 0.269 |
| 4- 790 | 4-1390 | 0.455 | 68.6 | -53.1 | -21.31 | 1.197 | 91.6 | 0.456 | 1.865 | 354.8 | 562.0 | 1.015 | 2.716 | 14.52 | 0.495 | 73.5 | 227.0 | 27.2 | 0.261 |
| 4- 790 | 4-1410 | 0.419 | 68.0 | -47.9 | -18.95 | 1.198 | 92.6 | 0.461 | 1.878 | 351.8 | 563.8 | 1.013 | 2.744 | 12.47 | 0.500 | 72.2 | 228.2 | 23.3 | 0.260 |
| 4- 790 | 4-1430 | 0.394 | 68.7 | -42.9 | -17.16 | 1.200 | 93.6 | 0.466 | 1.892 | 348.5 | 565.5 | 1.010 | 2.775 | 10.99 | 0.503 | 70.9 | 230.0 | 20.2 | 0.263 |
| 4- 790 | 4-1450 | 0.378 | 70.3 | -37.9 | -15.73 | 1.202 | 94.8 | 0.473 | 1.907 | 345.1 | 566.9 | 1.005 | 2.808 | 9.89 | 0.507 | 69.7 | 232.2 | 17.7 | 0.269 |
| 4- 790 | 4-1470 | 0.368 | 72.4 | -33.0 | -14.56 | 1.203 | 96.0 | 0.480 | 1.922 | 341.5 | 568.3 | 0.999 | 2.844 | 9.05 | 0.510 | 68.5 | 234.8 | 15.7 | 0.276 |
| 4- 790 | 4-1490 | 0.363 | 74.9 | -28.2 | -13.56 | 1.205 | 97.3 | 0.488 | 1.937 | 337.8 | 569.5 | 0.991 | 2.882 | 8.40 | 0.513 | 67.3 | 237.7 | 14.0 | 0.285 |
| 4- 800 | 4- 940 | 0.587 | 39.1 | -3.6 | -6.68 | 1.554 | 89.1 | 1.450 | -2.254 | 1.5 | 94.8 | --- | --- | -7.88 | 1.073 | 148.7 | 247.0 | -4.6 | 0.963 |
| 4- 800 | 4- 960 | 0.487 | 34.9 | -5.6 | -6.11 | 1.452 | 87.7 | 1.139 | -7.283 | 4.2 | 101.6 | --- | --- | -7.94 | 0.921 | 145.4 | 248.1 | -5.1 | 0.808 |
| 4- 800 | 4- 980 | 0.418 | 30.0 | -7.5 | -5.52 | 1.380 | 86.4 | 0.932 | 14.955 | 7.4 | 108.9 | --- | --- | -8.03 | 0.805 | 141.6 | 249.0 | -5.8 | 0.687 |
| 4- 800 | 4-1000 | 0.371 | 24.5 | -8.9 | -4.92 | 1.328 | 85.2 | 0.791 | 4.808 | 10.8 | 116.4 | --- | --- | -8.17 | 0.715 | 137.5 | 249.8 | -6.7 | 0.589 |
| 4- 800 | 4-1020 | 0.339 | 18.9 | -9.7 | -4.27 | 1.290 | 84.2 | 0.692 | 3.250 | 14.2 | 124.1 | --- | --- | -8.37 | 0.644 | 133.1 | 250.3 | -7.7 | 0.508 |
| 4- 800 | 4-1040 | 0.317 | 13.6 | -9.8 | -3.59 | 1.262 | 83.3 | 0.622 | 2.637 | 17.4 | 131.5 | --- | --- | -8.63 | 0.590 | 128.4 | 250.5 | -9.0 | 0.442 |
| 4- 800 | 4-1060 | 0.302 | 8.7 | -9.0 | -2.85 | 1.241 | 82.6 | 0.572 | 2.319 | 20.3 | 138.7 | --- | --- | -8.95 | 0.548 | 123.5 | 250.3 | -10.6 | 0.388 |
| 4- 800 | 4-1080 | 0.291 | 4.4 | -7.4 | -2.04 | 1.225 | 82.1 | 0.537 | 2.132 | 22.7 | 145.4 | --- | --- | -9.37 | 0.516 | 118.6 | 249.7 | -12.4 | 0.343 |
| 4- 800 | 4-1100 | 0.284 | 0.6 | -5.0 | -1.13 | 1.214 | 81.7 | 0.511 | 2.013 | 24.6 | 151.7 | --- | --- | -9.89 | 0.493 | 113.8 | 248.4 | -14.6 | 0.306 |
| 4- 800 | 4-1120 | 0.278 | 357.3 | -1.6 | -0.10 | 1.206 | 81.5 | 0.493 | 1.935 | 26.0 | 157.5 | --- | --- | -10.54 | 0.476 | 109.1 | 246.6 | -17.3 | 0.277 |
| 4- 800 | 4-1140 | 0.275 | 354.2 | 2.6 | 1.10 | 1.200 | 81.4 | 0.480 | 1.882 | 26.8 | 162.8 | --- | --- | -11.37 | 0.465 | 104.7 | 244.1 | -20.3 | 0.256 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 800 | 4-1160 | 0.275 | 351.2 | 8.1 | 2.52 | 1.195 | 81.4 | 0.470 | 1.847 | 27.2 | 167.7 | --- | --- | -12.43 | 0.459 | 100.5 | 241.1 | -23.7 | 0.242 |
| 4- 800 | 4-1180 | 0.279 | 347.9 | 14.7 | 4.26 | 1.193 | 81.5 | 0.463 | 1.824 | 27.1 | 172.1 | --- | --- | -13.82 | 0.455 | 96.7 | 237.7 | -27.3 | 0.235 |
| 4- 800 | 4-1200 | 0.290 | 343.8 | 22.8 | 6.47 | 1.191 | 81.7 | 0.458 | 1.810 | 26.7 | 176.2 | --- | --- | -15.68 | 0.455 | 93.2 | 234.1 | -31.2 | 0.237 |
| 4- 800 | 4-1220 | 0.314 | 338.2 | 32.1 | 9.40 | 1.190 | 82.0 | 0.454 | 1.802 | 25.9 | 180.0 | --- | --- | -18.26 | 0.456 | 90.0 | 230.8 | -35.2 | 0.248 |
| 4- 800 | 4-1240 | 0.360 | 329.4 | 42.0 | 13.50 | 1.190 | 82.3 | 0.452 | 1.800 | 24.9 | 183.5 | --- | 2.614 | -22.02 | 0.459 | 87.2 | 228.2 | -39.2 | 0.272 |
| 4- 800 | 4-1260 | 0.446 | 314.8 | 50.9 | 19.67 | 1.190 | 82.7 | 0.451 | 1.801 | 23.7 | 186.7 | --- | 2.614 | -27.85 | 0.463 | 84.6 | 226.9 | -42.9 | 0.316 |
| 4- 800 | 4-1280 | 0.609 | 291.5 | 55.5 | 29.84 | 1.190 | 83.0 | 0.451 | 1.805 | 22.7 | 189.7 | --- | 2.620 | -37.69 | 0.467 | 82.2 | 227.6 | -45.7 | 0.396 |
| 4- 800 | 4-1300 | 0.915 | 264.1 | 51.2 | 48.17 | 1.191 | 83.1 | 0.453 | 1.812 | 22.2 | 192.6 | --- | 2.633 | -55.68 | 0.472 | 79.9 | 231.3 | -44.9 | 0.544 |
| 4- 800 | 4-1340 | 1.224 | 165.7 | -71.4 | -67.51 | 1.194 | 87.8 | 0.447 | 1.832 | 7.2 | 196.2 | --- | 2.651 | 60.68 | 0.482 | 77.7 | 238.2 | 44.1 | 0.591 |
| 4- 800 | 4-1360 | 0.886 | 114.6 | -74.5 | -46.67 | 1.195 | 88.0 | 0.450 | 1.843 | 6.4 | 198.6 | --- | 2.674 | 40.19 | 0.488 | 75.9 | 234.6 | 45.0 | 0.432 |
| 4- 800 | 4-1380 | 0.691 | 86.1 | -69.2 | -35.20 | 1.197 | 88.6 | 0.454 | 1.856 | 4.4 | 200.8 | --- | 2.698 | 29.06 | 0.492 | 74.4 | 232.0 | 41.0 | 0.351 |
| 4- 800 | 4-1400 | 0.574 | 75.4 | -63.0 | -28.39 | 1.198 | 89.4 | 0.457 | 1.870 | 1.8 | 202.7 | --- | 2.725 | 22.60 | 0.497 | 73.0 | 231.2 | 35.9 | 0.312 |
| 4- 800 | 4-1420 | 0.499 | 71.4 | -57.0 | -23.93 | 1.200 | 90.4 | 0.461 | 1.884 | 358.9 | 564.4 | 1.015 | 2.753 | 18.50 | 0.501 | 71.8 | 231.6 | 31.0 | 0.294 |
| 4- 800 | 4-1440 | 0.449 | 70.4 | -51.3 | -20.80 | 1.202 | 91.4 | 0.466 | 1.899 | 355.7 | 566.0 | 1.014 | 2.784 | 15.73 | 0.505 | 70.6 | 233.0 | 26.8 | 0.287 |
| 4- 800 | 4-1460 | 0.413 | 71.1 | -45.8 | -18.45 | 1.203 | 92.5 | 0.471 | 1.914 | 352.3 | 567.4 | 1.012 | 2.817 | 13.75 | 0.509 | 69.5 | 235.0 | 23.4 | 0.286 |
| 4- 800 | 4-1480 | 0.389 | 72.8 | -40.5 | -16.61 | 1.205 | 93.7 | 0.477 | 1.930 | 348.7 | 568.7 | 1.009 | 2.852 | 12.29 | 0.512 | 68.5 | 237.4 | 20.6 | 0.289 |
| 4- 800 | 4-1500 | 0.372 | 75.2 | -35.2 | -15.11 | 1.207 | 94.9 | 0.484 | 1.946 | 345.0 | 569.9 | 1.004 | 2.889 | 11.19 | 0.515 | 67.4 | 240.2 | 18.3 | 0.294 |
| 4- 810 | 4- 950 | 0.569 | 32.4 | -5.1 | -6.38 | 1.517 | 83.3 | 1.329 | -3.040 | 11.7 | 97.5 | --- | --- | -8.97 | 1.019 | 147.9 | 247.7 | -5.3 | 0.912 |
| 4- 810 | 4- 970 | 0.484 | 27.1 | -7.0 | -5.74 | 1.424 | 82.3 | 1.053 | 18.894 | 15.1 | 105.0 | --- | --- | -8.95 | 0.875 | 144.4 | 248.6 | -5.9 | 0.765 |
| 4- 810 | 4- 990 | 0.428 | 21.5 | -8.4 | -5.09 | 1.357 | 81.3 | 0.870 | 7.628 | 18.8 | 112.8 | --- | --- | -8.97 | 0.765 | 140.5 | 249.3 | -6.7 | 0.650 |
| 4- 810 | 4-1010 | 0.391 | 15.9 | -9.2 | -4.43 | 1.310 | 80.3 | 0.747 | 3.878 | 22.6 | 120.8 | --- | --- | -9.04 | 0.680 | 136.1 | 249.8 | -7.6 | 0.557 |
| 4- 810 | 4-1030 | 0.367 | 10.7 | -9.4 | -3.74 | 1.275 | 79.6 | 0.663 | 2.881 | 26.3 | 128.7 | --- | --- | -9.16 | 0.615 | 131.5 | 250.0 | -8.8 | 0.481 |
| 4- 810 | 4-1050 | 0.351 | 6.1 | -8.9 | -3.02 | 1.250 | 78.9 | 0.604 | 2.434 | 29.6 | 136.3 | --- | --- | -9.34 | 0.564 | 126.5 | 249.8 | -10.1 | 0.419 |
| 4- 810 | 4-1070 | 0.341 | 2.1 | -7.8 | -2.26 | 1.232 | 78.4 | 0.563 | 2.189 | 32.4 | 143.4 | --- | --- | -9.59 | 0.526 | 121.5 | 249.2 | -11.7 | 0.368 |
| 4- 810 | 4-1090 | 0.333 | 358.8 | -6.2 | -1.45 | 1.218 | 78.1 | 0.534 | 2.041 | 34.6 | 149.9 | --- | --- | -9.91 | 0.497 | 116.5 | 248.0 | -13.6 | 0.327 |
| 4- 810 | 4-1110 | 0.327 | 356.1 | -3.9 | -0.56 | 1.208 | 77.9 | 0.513 | 1.946 | 36.2 | 155.9 | --- | --- | -10.32 | 0.477 | 111.5 | 246.3 | -15.7 | 0.293 |
| 4- 810 | 4-1130 | 0.323 | 353.7 | -1.1 | 0.41 | 1.201 | 77.8 | 0.498 | 1.883 | 37.2 | 161.4 | --- | --- | -10.83 | 0.463 | 106.8 | 244.1 | -18.2 | 0.268 |
| 4- 310 | 4-1150 | 0.320 | 351.6 | 2.4 | 1.51 | 1.196 | 77.9 | 0.487 | 1.842 | 37.7 | 166.3 | --- | --- | -11.49 | 0.455 | 102.3 | 241.2 | -20.8 | 0.249 |
| 4- 810 | 4-1170 | 0.318 | 349.6 | 6.6 | 2.77 | 1.193 | 78.0 | 0.479 | 1.815 | 37.6 | 170.8 | --- | --- | -12.31 | 0.450 | 98.2 | 238.0 | -23.7 | 0.237 |
| 4- 810 | 4-1190 | 0.319 | 347.5 | 11.7 | 4.25 | 1.191 | 78.3 | 0.473 | 1.798 | 37.2 | 175.0 | --- | --- | -13.37 | 0.449 | 94.5 | 234.6 | -26.6 | 0.231 |
| 4- 810 | 4-1210 | 0.324 | 345.0 | 17.7 | 6.03 | 1.189 | 78.6 | 0.469 | 1.789 | 36.4 | 178.7 | --- | --- | -14.73 | 0.450 | 91.1 | 231.4 | -29.6 | 0.232 |
| 4- 810 | 4-1230 | 0.336 | 341.6 | 24.8 | 8.25 | 1.189 | 79.0 | 0.466 | 1.786 | 35.3 | 182.2 | --- | 2.617 | -16.54 | 0.452 | 88.1 | 228.5 | -32.6 | 0.239 |
| 4- 810 | 4-1250 | 0.359 | 336.7 | 32.7 | 11.11 | 1.189 | 79.4 | 0.463 | 1.787 | 33.9 | 185.4 | --- | 2.614 | -19.00 | 0.456 | 85.4 | 226.4 | -35.6 | 0.254 |
| 4- 810 | 4-1270 | 0.400 | 329.2 | 41.1 | 14.98 | 1.190 | 79.9 | 0.462 | 1.791 | 32.4 | 188.4 | --- | 2.618 | -22.47 | 0.461 | 82.9 | 225.3 | -38.7 | 0.280 |
| 4- 810 | 4-1290 | 0.475 | 317.1 | 48.6 | 20.54 | 1.191 | 80.4 | 0.461 | 1.798 | 30.8 | 191.2 | --- | 2.627 | -27.64 | 0.466 | 80.7 | 225.6 | -41.7 | 0.321 |
| 4- 810 | 4-1310 | 0.608 | 298.7 | 53.0 | 29.14 | 1.192 | 80.9 | 0.462 | 1.807 | 29.2 | 193.8 | --- | 2.641 | -35.85 | 0.472 | 78.7 | 227.9 | -44.3 | 0.388 |
| 4- 810 | 4-1330 | 0.844 | 276.1 | 50.9 | 43.46 | 1.193 | 81.2 | 0.463 | 1.818 | 28.0 | 196.3 | --- | 2.660 | -49.79 | 0.477 | 76.8 | 232.9 | -44.8 | 0.503 |
| 4- 810 | 4-1390 | 1.050 | 141.0 | -78.7 | -56.34 | 1.198 | 86.9 | 0.457 | 1.858 | 9.8 | 201.3 | --- | 2.706 | 51.19 | 0.493 | 73.9 | 242.1 | 44.5 | 0.526 |
| 4- 810 | 4-1410 | 0.798 | 92.6 | -74.2 | -41.29 | 1.200 | 87.4 | 0.460 | 1.873 | 8.1 | 203.3 | --- | 2.735 | 36.53 | 0.498 | 72.5 | 238.6 | 42.8 | 0.416 |
| 4- 810 | 4-1430 | 0.644 | 77.6 | -66.9 | -32.30 | 1.202 | 88.2 | 0.464 | 1.888 | 5.6 | 205.0 | --- | 2.764 | 27.93 | 0.502 | 71.3 | 237.1 | 38.5 | 0.358 |
| 4- 810 | 4-1450 | 0.545 | 72.8 | -60.2 | -26.52 | 1.203 | 89.2 | 0.468 | 1.904 | 2.6 | 206.5 | --- | 2.795 | 22.56 | 0.506 | 70.2 | 237.2 | 33.8 | 0.329 |
| 4- 810 | 4-1470 | 0.479 | 71.8 | -54.0 | -22.52 | 1.205 | 90.2 | 0.472 | 1.921 | 359.3 | 567.9 | 1.013 | 2.828 | 18.97 | 0.510 | 69.2 | 238.5 | 29.5 | 0.315 |
| 4- 810 | 4-1490 | 0.432 | 72.6 | -48.1 | -19.58 | 1.207 | 91.4 | 0.477 | 1.937 | 355.8 | 569.1 | 1.013 | 2.862 | 16.44 | 0.513 | 68.3 | 240.5 | 25.9 | 0.309 |
| 4- 810 | 4-1510 | 0.398 | 74.7 | -42.4 | -17.31 | 1.209 | 92.6 | 0.483 | 1.954 | 352.2 | 570.2 | 1.010 | 2.898 | 14.60 | 0.516 | 67.3 | 243.0 | 22.9 | 0.309 |
| 4- 820 | 4- 960 | 0.582 | 25.0 | -6.3 | -6.19 | 1.480 | 77.3 | 1.207 | -4.671 | 23.3 | 101.6 | --- | --- | -9.98 | 0.962 | 147.3 | 247.9 | -6.0 | 0.862 |
| 4- 820 | 4- 980 | 0.511 | 19.4 | -7.6 | -5.46 | 1.395 | 76.5 | 0.969 | 30.795 | 27.4 | 109.7 | --- | --- | -9.86 | 0.826 | 143.6 | 248.5 | -6.7 | 0.723 |
| 4- 820 | 4-1000 | 0.465 | 14.0 | -8.4 | -4.74 | 1.334 | 75.8 | 0.814 | 5.083 | 31.7 | 118.2 | --- | --- | -9.79 | 0.723 | 139.4 | 248.9 | -7.5 | 0.614 |
| 4- 820 | 4-1020 | 0.436 | 9.1 | -8.7 | -4.02 | 1.291 | 75.2 | 0.712 | 3.233 | 35.8 | 126.5 | --- | --- | -9.77 | 0.643 | 134.8 | 249.0 | -8.5 | 0.526 |
| 4- 820 | 4-1040 | 0.418 | 4.9 | -8.4 | -3.29 | 1.261 | 74.7 | 0.643 | 2.576 | 39.5 | 134.5 | --- | --- | -9.81 | 0.582 | 129.8 | 248.8 | -9.6 | 0.455 |
| 4- 820 | 4-1060 | 0.405 | 1.4 | -7.6 | -2.54 | 1.238 | 74.3 | 0.595 | 2.252 | 42.7 | 141.9 | --- | --- | -9.90 | 0.536 | 124.6 | 248.2 | -11.0 | 0.398 |
| 4- 820 | 4-1080 | 0.396 | 358.5 | -6.4 | -1.76 | 1.222 | 74.1 | 0.562 | 2.067 | 45.1 | 148.7 | --- | --- | -10.06 | 0.501 | 119.4 | 247.1 | -12.6 | 0.350 |
| 4- 820 | 4-1100 | 0.389 | 356.2 | -4.7 | -0.95 | 1.210 | 73.9 | 0.539 | 1.952 | 46.9 | 154.8 | --- | --- | -10.28 | 0.477 | 114.1 | 245.5 | -14.4 | 0.313 |
| 4- 820 | 4-1120 | 0.383 | 354.3 | -2.7 | -0.08 | 1.202 | 73.9 | 0.523 | 1.878 | 48.0 | 160.4 | --- | --- | -10.58 | 0.460 | 109.1 | 243.3 | -16.4 | 0.283 |
| 4- 820 | 4-1140 | 0.378 | 352.8 | -0.3 | 0.85 | 1.196 | 74.0 | 0.511 | 1.830 | 48.6 | 165.4 | --- | --- | -10.96 | 0.449 | 104.3 | 240.7 | -18.6 | 0.260 |
| 4- 820 | 4-1160 | 0.373 | 351.4 | 2.6 | 1.87 | 1.192 | 74.2 | 0.501 | 1.799 | 48.6 | 169.9 | --- | --- | -11.46 | 0.443 | 99.8 | 237.6 | -20.8 | 0.244 |
| 4- 820 | 4-1180 | 0.370 | 350.2 | 6.0 | 3.01 | 1.190 | 74.5 | 0.494 | 1.780 | 48.2 | 174.0 | --- | --- | -12.09 | 0.440 | 95.8 | 234.3 | -23.1 | 0.234 |
| 4- 820 | 4-1200 | 0.368 | 348.8 | 9.9 | 4.30 | 1.188 | 74.9 | 0.489 | 1.770 | 47.3 | 177.8 | --- | --- | -12.89 | 0.441 | 92.1 | 231.1 | -25.4 | 0.229 |
| 4- 820 | 4-1220 | 0.368 | 347.3 | 14.6 | 5.80 | 1.188 | 75.3 | 0.485 | 1.766 | 46.2 | 181.2 | --- | 2.622 | -13.90 | 0.444 | 88.9 | 228.2 | -27.6 | 0.230 |
| 4- 820 | 4-1240 | 0.372 | 345.3 | 20.0 | 7.57 | 1.188 | 75.8 | 0.481 | 1.767 | 44.7 | 184.4 | --- | 2.617 | -15.21 | 0.448 | 85.9 | 225.8 | -29.8 | 0.236 |
| 4- 820 | 4-1260 | 0.382 | 342.5 | 26.2 | 9.74 | 1.189 | 76.4 | 0.479 | 1.771 | 43.0 | 187.3 | --- | 2.619 | -16.92 | 0.453 | 83.4 | 224.2 | -32.0 | 0.247 |
| 4- 820 | 4-1280 | 0.402 | 338.3 | 33.0 | 12.47 | 1.190 | 77.0 | 0.477 | 1.778 | 41.1 | 190.1 | --- | 2.626 | -19.21 | 0.458 | 81.1 | 223.5 | -34.4 | 0.264 |
| 4- 820 | 4-1300 | 0.438 | 331.9 | 40.2 | 16.08 | 1.191 | 77.7 | 0.475 | 1.788 | 39.1 | 192.6 | --- | 2.638 | -22.37 | 0.464 | 79.1 | 223.8 | -37.0 | 0.289 |
| 4- 820 | 4-1320 | 0.501 | 321.7 | 46.9 | 21.07 | 1.192 | 78.3 | 0.474 | 1.800 | 37.0 | 195.0 | --- | 2.653 | -26.93 | 0.470 | 77.2 | 225.4 | -39.7 | 0.325 |
| 4- 820 | 4-1340 | 0.609 | 306.5 | 51.2 | 28.44 | 1.194 | 78.9 | 0.474 | 1.813 | 35.0 | 197.2 | --- | 2.672 | -33.86 | 0.477 | 75.6 | 228.7 | -42.3 | 0.382 |
| 4- 820 | 4-1360 | 0.796 | 287.2 | 50.6 | 40.03 | 1.196 | 79.4 | 0.475 | 1.827 | 33.3 | 199.4 | --- | 2.695 | -45.02 | 0.482 | 74.0 | 234.4 | -43.9 | 0.473 |
| 4- 820 | 4-1380 | 1.102 | 269.3 | 42.9 | 58.93 | 1.198 | 79.7 | 0.478 | 1.842 | 32.4 | 201.4 | --- | 2.723 | -63.49 | 0.488 | 72.5 | 242.6 | -42.1 | 0.622 |
| 4- 820 | 4-1420 | 1.217 | 182.2 | -81.0 | -66.58 | 1.201 | 86.0 | 0.464 | 1.874 | 12.7 | 203.7 | --- | 2.744 | 62.87 | 0.498 | 72.0 | 250.5 | 42.6 | 0.623 |
| 4- 820 | 4-1440 | 0.914 | 97.5 | -79.2 | -47.87 | 1.203 | 86.4 | 0.468 | 1.891 | 11.4 | 205.4 | --- | 2.776 | 44.59 | 0.503 | 70.8 | 246.4 | 43.3 | 0.486 |
| 4- 820 | 4-1460 | 0.718 | 77.6 | -70.5 | -36.40 | 1.205 | 87.1 | 0.472 | 1.908 | 9.0 | 206.9 | --- | 2.808 | 33.55 | 0.507 | 69.7 | 244.0 | 40.2 | 0.407 |
| 4- 820 | 4-1480 | 0.593 | 72.8 | -62.8 | -29.10 | 1.207 | 88.0 | 0.476 | 1.926 | 6.1 | 208.3 | --- | 2.841 | 26.69 | 0.511 | 68.8 | 243.5 | 35.8 | 0.365 |
| 4- 820 | 4-1500 | 0.509 | 72.2 | -56.0 | -24.14 | 1.209 | 89.1 | 0.480 | 1.943 | 2.8 | 209.5 | --- | 2.875 | 22.17 | 0.514 | 67.9 | 244.5 | 31.6 | 0.343 |
| 4- 820 | 4-1520 | 0.450 | 73.4 | -49.6 | -20.56 | 1.211 | 90.3 | 0.484 | 1.961 | 359.2 | 570.6 | 1.012 | 2.911 | 19.04 | 0.517 | 67.1 | 246.4 | 27.8 | 0.332 |
| 4- 830 | 4- 970 | 0.625 | 18.5 | -6.6 | -6.08 | 1.443 | 70.9 | 1.092 | -9.894 | 36.6 | 107.3 | --- | --- | -10.95 | 0.902 | 147.1 | 247.4 | -6.6 | 0.814 |
| 4- 830 | 4- 990 | 0.565 | 13.4 | -7.4 | -5.26 | 1.365 | 70.5 | 0.895 | 8.508 | 41.4 | 116.2 | --- | --- | -10.71 | 0.774 | 143.0 | 247.7 | -7.3 | 0.683 |
| 4- 830 | 4-1010 | 0.526 | 8.8 | -7.6 | -4.46 | 1.311 | 70.1 | 0.770 | 3.809 | 46.0 | 125.0 | --- | --- | -10.52 | 0.677 | 138.5 | 247.8 | -8.1 | 0.580 |
| 4- 830 | 4-1030 | 0.501 | 5.0 | -7.4 | -3.68 | 1.273 | 69.8 | 0.689 | 2.767 | 50.2 | 133.4 | --- | --- | -10.40 | 0.603 | 133.5 | 247.5 | -9.1 | 0.498 |
| 4- 830 | 4-1050 | 0.484 | 1.9 | -6.8 | -2.90 | 1.246 | 69.6 | 0.635 | 2.325 | 53.6 | 141.1 | --- | --- | -10.34 | 0.547 | 128.2 | 246.9 | -10.3 | 0.432 |
| 4- 830 | 4-1070 | 0.472 | 359.4 | -5.9 | -2.11 | 1.226 | 69.5 | 0.598 | 2.091 | 56.3 | 148.1 | --- | --- | -10.33 | 0.505 | 122.7 | 245.8 | -11.6 | 0.378 |
| 4- 830 | 4-1090 | 0.462 | 357.5 | -4.6 | -1.32 | 1.212 | 69.5 | 0.572 | 1.953 | 58.2 | 154.3 | --- | --- | -10.39 | 0.475 | 117.1 | 244.1 | -13.1 | 0.335 |
| 4- 830 | 4-1110 | 0.454 | 356.0 | -3.1 | -0.50 | 1.202 | 69.6 | 0.554 | 1.867 | 59.4 | 159.9 | --- | --- | -10.51 | 0.454 | 111.7 | 242.0 | -14.8 | 0.301 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 830 | 4-1130 | 0.447 | 354.8 | -1.3 | 0.35 | 1.196 | 69.8 | 0.541 | 1.812 | 60.0 | 164.9 | --- | --- | -10.69 | 0.440 | 106.4 | 239.5 | -16.5 | 0.275 |
| 4- 830 | 4-1150 | 0.440 | 353.8 | 0.8 | 1.25 | 1.191 | 70.1 | 0.530 | 1.777 | 59.9 | 169.3 | --- | --- | -10.96 | 0.433 | 101.6 | 236.5 | -18.4 | 0.256 |
| 4- 830 | 4-1170 | 0.433 | 353.0 | 3.2 | 2.21 | 1.188 | 70.4 | 0.522 | 1.756 | 59.5 | 173.4 | --- | --- | -11.31 | 0.429 | 97.1 | 233.3 | -20.2 | 0.242 |
| 4- 830 | 4-1190 | 0.427 | 352.3 | 6.0 | 3.25 | 1.187 | 70.9 | 0.516 | 1.744 | 58.6 | 177.1 | --- | --- | -11.77 | 0.429 | 93.1 | 230.2 | -21.9 | 0.234 |
| 4- 830 | 4-1210 | 0.422 | 351.6 | 9.2 | 4.40 | 1.186 | 71.4 | 0.510 | 1.740 | 57.3 | 180.4 | --- | 2.627 | -12.36 | 0.432 | 89.5 | 227.3 | -23.6 | 0.231 |
| 4- 830 | 4-1230 | 0.418 | 350.7 | 12.9 | 5.69 | 1.186 | 72.0 | 0.505 | 1.741 | 55.8 | 183.5 | --- | 2.620 | -13.11 | 0.436 | 86.4 | 224.9 | -25.1 | 0.232 |
| 4- 830 | 4-1250 | 0.417 | 349.6 | 17.1 | 7.16 | 1.187 | 72.6 | 0.501 | 1.746 | 54.0 | 186.4 | --- | 2.621 | -14.06 | 0.442 | 83.6 | 223.1 | -26.7 | 0.237 |
| 4- 830 | 4-1270 | 0.418 | 347.9 | 22.0 | 8.89 | 1.188 | 73.3 | 0.498 | 1.754 | 52.0 | 189.1 | --- | 2.627 | -15.28 | 0.448 | 81.2 | 222.0 | -28.3 | 0.246 |
| 4- 830 | 4-1290 | 0.426 | 345.6 | 27.4 | 10.96 | 1.189 | 74.0 | 0.495 | 1.764 | 49.8 | 191.6 | --- | 2.637 | -16.85 | 0.455 | 79.1 | 221.7 | -30.1 | 0.258 |
| 4- 830 | 4-1310 | 0.442 | 342.0 | 33.5 | 13.54 | 1.191 | 74.8 | 0.493 | 1.776 | 47.5 | 193.9 | --- | 2.651 | -18.94 | 0.461 | 77.2 | 222.3 | -32.1 | 0.275 |
| 4- 830 | 4-1330 | 0.471 | 336.4 | 39.9 | 16.85 | 1.193 | 75.5 | 0.491 | 1.790 | 45.0 | 196.1 | --- | 2.668 | -21.78 | 0.468 | 75.5 | 223.7 | -34.5 | 0.297 |
| 4- 830 | 4-1350 | 0.523 | 327.8 | 45.9 | 21.31 | 1.195 | 76.3 | 0.489 | 1.805 | 42.5 | 198.2 | --- | 2.688 | -25.76 | 0.475 | 74.1 | 226.3 | -37.1 | 0.329 |
| 4- 830 | 4-1370 | 0.611 | 314.9 | 50.2 | 27.64 | 1.197 | 77.1 | 0.489 | 1.821 | 40.1 | 200.1 | --- | 2.711 | -31.63 | 0.481 | 72.7 | 230.2 | -39.9 | 0.376 |
| 4- 830 | 4-1390 | 0.759 | 298.0 | 50.8 | 37.19 | 1.199 | 77.8 | 0.489 | 1.838 | 37.9 | 202.0 | --- | 2.737 | -40.73 | 0.487 | 71.5 | 236.1 | -42.2 | 0.449 |
| 4- 830 | 4-1410 | 1.003 | 281.1 | 45.4 | 52.32 | 1.201 | 78.2 | 0.491 | 1.856 | 36.3 | 203.7 | --- | 2.766 | -55.40 | 0.493 | 70.3 | 244.5 | -42.4 | 0.567 |
| 4- 830 | 4-1470 | 1.040 | 97.6 | -84.6 | -55.19 | 1.208 | 85.4 | 0.477 | 1.910 | 14.4 | 207.3 | --- | 2.821 | 53.46 | 0.507 | 69.2 | 255.1 | 42.8 | 0.561 |
| 4- 830 | 4-1490 | 0.799 | 74.2 | -73.9 | -40.85 | 1.210 | 86.0 | 0.481 | 1.929 | 12.3 | 208.6 | --- | 2.856 | 39.58 | 0.511 | 68.3 | 251.7 | 41.1 | 0.460 |
| 4- 830 | 4-1510 | 0.643 | 71.3 | -64.9 | -31.77 | 1.212 | 86.9 | 0.484 | 1.948 | 9.4 | 209.8 | --- | 2.891 | 30.95 | 0.514 | 67.5 | 250.4 | 37.3 | 0.403 |
| 4- 830 | 4-1530 | 0.539 | 71.8 | -57.3 | -25.70 | 1.214 | 88.0 | 0.488 | 1.967 | 6.1 | 210.9 | --- | 2.926 | 25.35 | 0.517 | 66.7 | 251.0 | 33.2 | 0.372 |
| 4- 840 | 4-1000 | 0.640 | 9.6 | -6.4 | -5.13 | 1.336 | 64.2 | 0.840 | 4.989 | 57.0 | 124.2 | --- | --- | -11.49 | 0.720 | 142.8 | 246.2 | -7.7 | 0.647 |
| 4- 840 | 4-1020 | 0.604 | 6.1 | -6.2 | -4.24 | 1.288 | 64.2 | 0.744 | 3.054 | 61.6 | 133.0 | --- | --- | -11.18 | 0.629 | 137.8 | 245.8 | -8.5 | 0.550 |
| 4- 840 | 4-1040 | 0.580 | 3.4 | -5.7 | -3.38 | 1.254 | 64.2 | 0.682 | 2.420 | 65.3 | 140.9 | --- | --- | -10.93 | 0.560 | 132.4 | 245.1 | -9.5 | 0.474 |
| 4- 840 | 4-1060 | 0.562 | 1.2 | -5.0 | -2.55 | 1.231 | 64.3 | 0.641 | 2.118 | 68.2 | 148.0 | --- | --- | -10.76 | 0.509 | 126.7 | 244.0 | -10.6 | 0.412 |
| 4- 840 | 4-1080 | 0.548 | 359.6 | -3.9 | -1.72 | 1.214 | 64.5 | 0.613 | 1.950 | 70.1 | 154.3 | --- | --- | -10.64 | 0.472 | 120.7 | 242.4 | -11.9 | 0.364 |
| 4- 840 | 4-1100 | 0.537 | 358.3 | -2.7 | -0.90 | 1.202 | 64.7 | 0.593 | 1.849 | 71.3 | 159.8 | --- | --- | -10.59 | 0.446 | 114.8 | 240.3 | -13.2 | 0.325 |
| 4- 840 | 4-1120 | 0.526 | 357.4 | -1.3 | -0.08 | 1.194 | 65.1 | 0.578 | 1.787 | 71.7 | 164.7 | --- | --- | -10.60 | 0.429 | 109.0 | 237.8 | -14.7 | 0.295 |
| 4- 840 | 4-1140 | 0.517 | 356.8 | 0.4 | 0.77 | 1.189 | 65.5 | 0.567 | 1.748 | 71.6 | 169.1 | --- | --- | -10.68 | 0.419 | 103.6 | 234.9 | -16.1 | 0.272 |
| 4- 840 | 4-1160 | 0.507 | 356.3 | 2.2 | 1.64 | 1.186 | 66.0 | 0.557 | 1.724 | 71.0 | 173.0 | --- | --- | -10.83 | 0.415 | 98.6 | 231.9 | -17.5 | 0.256 |
| 4- 840 | 4-1180 | 0.498 | 355.9 | 4.3 | 2.55 | 1.184 | 66.5 | 0.549 | 1.712 | 70.0 | 176.6 | --- | --- | -11.05 | 0.414 | 94.1 | 228.8 | -18.9 | 0.245 |
| 4- 840 | 4-1200 | 0.489 | 355.6 | 6.6 | 3.51 | 1.184 | 67.1 | 0.542 | 1.707 | 68.7 | 179.8 | --- | --- | -11.36 | 0.417 | 90.2 | 226.0 | -20.1 | 0.239 |
| 4- 840 | 4-1220 | 0.481 | 355.3 | 9.3 | 4.54 | 1.184 | 67.8 | 0.536 | 1.709 | 67.1 | 182.8 | --- | 2.625 | -11.77 | 0.422 | 86.7 | 223.7 | -21.2 | 0.237 |
| 4- 840 | 4-1240 | 0.474 | 354.9 | 12.3 | 5.67 | 1.185 | 68.5 | 0.531 | 1.714 | 65.2 | 185.6 | --- | 2.624 | -12.31 | 0.428 | 83.7 | 221.8 | -22.3 | 0.239 |
| 4- 840 | 4-1260 | 0.468 | 354.3 | 15.7 | 6.93 | 1.186 | 69.3 | 0.526 | 1.723 | 63.1 | 188.2 | --- | 2.629 | -12.99 | 0.435 | 81.1 | 220.6 | -23.4 | 0.243 |
| 4- 840 | 4-1280 | 0.464 | 353.5 | 19.5 | 8.35 | 1.187 | 70.1 | 0.521 | 1.734 | 60.8 | 190.7 | --- | 2.638 | -13.85 | 0.442 | 78.8 | 220.1 | -24.6 | 0.250 |
| 4- 840 | 4-1300 | 0.463 | 352.2 | 23.9 | 10.00 | 1.189 | 70.9 | 0.517 | 1.748 | 58.3 | 192.9 | --- | 2.652 | -14.96 | 0.450 | 76.9 | 220.3 | -25.9 | 0.259 |
| 4- 840 | 4-1320 | 0.467 | 350.2 | 28.8 | 11.94 | 1.191 | 71.8 | 0.513 | 1.763 | 55.7 | 195.1 | --- | 2.668 | -16.39 | 0.458 | 75.1 | 221.1 | -27.4 | 0.271 |
| 4- 840 | 4-1340 | 0.479 | 347.2 | 34.2 | 14.32 | 1.193 | 72.7 | 0.510 | 1.779 | 53.0 | 197.1 | --- | 2.687 | -18.25 | 0.465 | 73.7 | 222.7 | -29.2 | 0.286 |
| 4- 840 | 4-1360 | 0.502 | 342.5 | 39.9 | 17.32 | 1.196 | 73.6 | 0.507 | 1.796 | 50.3 | 199.0 | --- | 2.708 | -20.76 | 0.473 | 72.4 | 224.9 | -31.4 | 0.306 |
| 4- 840 | 4-1380 | 0.543 | 335.1 | 45.4 | 21.26 | 1.198 | 74.5 | 0.505 | 1.814 | 47.4 | 200.8 | --- | 2.731 | -24.21 | 0.480 | 71.2 | 228.0 | -34.0 | 0.333 |
| 4- 840 | 4-1400 | 0.613 | 324.1 | 49.8 | 26.69 | 1.200 | 75.4 | 0.504 | 1.833 | 44.7 | 202.5 | --- | 2.756 | -29.15 | 0.486 | 70.2 | 232.2 | -36.9 | 0.371 |
| 4- 840 | 4-1420 | 0.729 | 309.1 | 51.4 | 34.60 | 1.203 | 76.2 | 0.503 | 1.852 | 42.1 | 204.1 | --- | 2.784 | -36.60 | 0.492 | 69.2 | 238.0 | -39.7 | 0.429 |
| 4- 840 | 4-1440 | 0.922 | 292.9 | 48.0 | 46.79 | 1.205 | 76.9 | 0.504 | 1.871 | 39.9 | 205.6 | --- | 2.814 | -48.32 | 0.497 | 68.2 | 246.2 | -41.5 | 0.521 |
| 4- 840 | 4-1500 | 1.180 | 349.1 | -88.6 | -63.59 | 1.212 | 84.5 | 0.486 | 1.931 | 17.0 | 208.8 | --- | 2.869 | 63.45 | 0.511 | 67.8 | 264.4 | 41.3 | 0.641 |
| 4- 840 | 4-1520 | 0.891 | 65.4 | -76.8 | -45.94 | 1.214 | 85.0 | 0.490 | 1.951 | 15.3 | 210.0 | --- | 2.907 | 46.26 | 0.514 | 66.9 | 260.2 | 41.5 | 0.516 |
| 4- 840 | 4-1540 | 0.698 | 68.4 | -66.6 | -34.66 | 1.216 | 85.8 | 0.493 | 1.971 | 12.6 | 211.1 | --- | 2.943 | 35.44 | 0.517 | 66.2 | 257.9 | 38.4 | 0.442 |
| 4- 850 | 4-1010 | 0.731 | 8.0 | -4.9 | -5.08 | 1.309 | 57.6 | 0.810 | 3.576 | 73.8 | 133.4 | --- | --- | -12.25 | 0.664 | 143.0 | 243.9 | -7.9 | 0.618 |
| 4- 850 | 4-1030 | 0.695 | 5.5 | -4.5 | -4.07 | 1.266 | 58.0 | 0.739 | 2.564 | 77.7 | 141.5 | --- | --- | -11.77 | 0.579 | 137.5 | 243.1 | -8.7 | 0.527 |
| 4- 850 | 4-1050 | 0.669 | 3.6 | -3.8 | -3.12 | 1.236 | 58.4 | 0.694 | 2.156 | 80.6 | 148.6 | --- | --- | -11.38 | 0.515 | 131.6 | 241.9 | -9.6 | 0.455 |
| 4- 850 | 4-1070 | 0.648 | 2.2 | -2.9 | -2.22 | 1.216 | 58.8 | 0.663 | 1.947 | 82.5 | 154.8 | --- | --- | -11.07 | 0.469 | 125.2 | 240.2 | -10.6 | 0.399 |
| 4- 850 | 4-1090 | 0.632 | 1.3 | -1.9 | -1.35 | 1.202 | 59.3 | 0.641 | 1.828 | 83.5 | 160.2 | --- | --- | -10.84 | 0.436 | 118.7 | 238.2 | -11.7 | 0.354 |
| 4- 850 | 4-1110 | 0.617 | 0.6 | -0.7 | -0.50 | 1.193 | 59.8 | 0.624 | 1.756 | 83.9 | 164.9 | --- | --- | -10.67 | 0.415 | 112.3 | 235.7 | -12.8 | 0.320 |
| 4- 850 | 4-1130 | 0.604 | 0.1 | 0.7 | 0.34 | 1.186 | 60.4 | 0.611 | 1.712 | 83.6 | 169.1 | --- | --- | -10.57 | 0.402 | 106.2 | 233.0 | -14.0 | 0.293 |
| 4- 850 | 4-1150 | 0.591 | 359.9 | 2.2 | 1.18 | 1.183 | 61.0 | 0.600 | 1.687 | 82.9 | 172.8 | --- | --- | -10.54 | 0.396 | 100.5 | 230.0 | -15.1 | 0.274 |
| 4- 850 | 4-1170 | 0.579 | 359.7 | 3.9 | 2.03 | 1.181 | 61.7 | 0.591 | 1.673 | 81.7 | 176.2 | --- | --- | -10.57 | 0.395 | 95.4 | 227.1 | -16.1 | 0.261 |
| 4- 850 | 4-1190 | 0.567 | 359.7 | 5.7 | 2.89 | 1.180 | 62.4 | 0.582 | 1.669 | 80.2 | 179.3 | --- | --- | -10.68 | 0.398 | 90.9 | 224.5 | -17.0 | 0.252 |
| 4- 850 | 4-1210 | 0.555 | 359.7 | 7.7 | 3.79 | 1.180 | 63.2 | 0.574 | 1.670 | 78.5 | 182.2 | --- | 2.630 | -10.85 | 0.403 | 87.0 | 222.2 | -17.8 | 0.248 |
| 4- 850 | 4-1230 | 0.544 | 359.7 | 10.0 | 4.74 | 1.181 | 64.0 | 0.567 | 1.677 | 76.5 | 184.9 | --- | 2.628 | -11.12 | 0.410 | 83.7 | 220.4 | -18.5 | 0.247 |
| 4- 850 | 4-1250 | 0.533 | 359.6 | 12.5 | 5.74 | 1.183 | 64.9 | 0.560 | 1.687 | 74.3 | 187.4 | --- | 2.632 | -11.47 | 0.418 | 80.8 | 219.2 | -19.3 | 0.249 |
| 4- 850 | 4-1270 | 0.524 | 359.5 | 15.3 | 6.83 | 1.185 | 65.8 | 0.554 | 1.699 | 71.9 | 189.7 | --- | 2.641 | -11.94 | 0.427 | 78.3 | 218.6 | -20.0 | 0.253 |
| 4- 850 | 4-1290 | 0.515 | 359.2 | 18.4 | 8.03 | 1.187 | 66.7 | 0.548 | 1.714 | 69.3 | 191.9 | --- | 2.653 | -12.54 | 0.436 | 76.2 | 218.7 | -20.8 | 0.259 |
| 4- 850 | 4-1310 | 0.508 | 358.6 | 22.0 | 9.36 | 1.189 | 67.7 | 0.543 | 1.730 | 66.6 | 194.0 | --- | 2.669 | -13.31 | 0.445 | 74.4 | 219.3 | -21.8 | 0.266 |
| 4- 850 | 4-1330 | 0.505 | 357.7 | 25.9 | 10.90 | 1.191 | 68.7 | 0.538 | 1.748 | 63.8 | 196.0 | --- | 2.687 | -14.29 | 0.454 | 72.9 | 220.4 | -22.9 | 0.275 |
| 4- 850 | 4-1350 | 0.505 | 356.1 | 30.3 | 12.69 | 1.194 | 69.7 | 0.533 | 1.766 | 60.9 | 197.9 | --- | 2.708 | -15.55 | 0.462 | 71.6 | 222.1 | -24.3 | 0.286 |
| 4- 850 | 4-1370 | 0.512 | 353.6 | 35.2 | 14.84 | 1.197 | 70.7 | 0.529 | 1.785 | 57.9 | 199.7 | --- | 2.730 | -17.19 | 0.470 | 70.5 | 224.4 | -26.0 | 0.299 |
| 4- 850 | 4-1390 | 0.528 | 349.7 | 40.4 | 17.51 | 1.199 | 71.7 | 0.525 | 1.805 | 54.9 | 201.4 | --- | 2.754 | -19.35 | 0.477 | 69.5 | 227.1 | -28.0 | 0.315 |
| 4- 850 | 4-1410 | 0.559 | 343.5 | 45.5 | 20.94 | 1.202 | 72.8 | 0.522 | 1.826 | 51.8 | 203.0 | --- | 2.779 | -22.29 | 0.484 | 68.6 | 230.6 | -30.5 | 0.337 |
| 4- 850 | 4-1430 | 0.613 | 334.2 | 50.0 | 25.55 | 1.204 | 73.8 | 0.520 | 1.847 | 48.7 | 204.5 | --- | 2.806 | -26.42 | 0.490 | 67.8 | 234.8 | -33.4 | 0.367 |
| 4- 850 | 4-1450 | 0.703 | 320.9 | 52.4 | 32.08 | 1.207 | 74.7 | 0.518 | 1.868 | 45.8 | 205.9 | --- | 2.835 | -32.47 | 0.496 | 67.1 | 240.4 | -36.6 | 0.411 |
| 4- 850 | 4-1470 | 0.853 | 305.2 | 50.9 | 41.88 | 1.209 | 75.6 | 0.517 | 1.889 | 43.1 | 207.2 | --- | 2.866 | -41.80 | 0.501 | 66.3 | 247.9 | -39.5 | 0.481 |
| 4- 850 | 4-1490 | 1.095 | 291.2 | 43.9 | 57.18 | 1.212 | 76.2 | 0.519 | 1.910 | 41.1 | 208.5 | --- | 2.901 | -56.64 | 0.506 | 65.6 | 258.0 | -40.4 | 0.594 |
| 4- 850 | 4-1550 | 1.000 | 47.5 | -78.8 | -52.14 | 1.219 | 84.0 | 0.500 | 1.974 | 18.2 | 211.2 | --- | 2.960 | 54.04 | 0.517 | 65.7 | 269.3 | 41.2 | 0.579 |
| 4- 860 | 4-1020 | 0.833 | 8.1 | -3.2 | -5.11 | 1.282 | 50.7 | 0.807 | 2.829 | 90.9 | 142.8 | --- | --- | -12.98 | 0.608 | 143.8 | 240.8 | -7.8 | 0.596 |
| 4- 860 | 4-1040 | 0.793 | 6.4 | -2.5 | -3.95 | 1.244 | 51.6 | 0.756 | 2.226 | 93.7 | 149.8 | --- | --- | -12.30 | 0.527 | 137.7 | 239.6 | -8.5 | 0.511 |
| 4- 860 | 4-1060 | 0.764 | 5.3 | -1.7 | -2.88 | 1.219 | 52.3 | 0.723 | 1.953 | 95.4 | 155.8 | --- | --- | -11.74 | 0.468 | 131.0 | 237.9 | -9.3 | 0.444 |
| 4- 860 | 4-1080 | 0.740 | 4.5 | -0.7 | -1.90 | 1.202 | 53.1 | 0.698 | 1.806 | 96.2 | 160.9 | --- | --- | -11.28 | 0.426 | 123.9 | 235.9 | -10.2 | 0.392 |
| 4- 860 | 4-1100 | 0.719 | 4.1 | 0.3 | -0.97 | 1.190 | 53.9 | 0.680 | 1.722 | 96.3 | 165.3 | --- | --- | -10.91 | 0.398 | 116.7 | 233.5 | -11.0 | 0.352 |
| 4- 860 | 4-1120 | 0.701 | 3.8 | 1.5 | -0.08 | 1.183 | 54.7 | 0.664 | 1.672 | 95.8 | 169.2 | --- | --- | -10.63 | 0.382 | 109.6 | 230.8 | -11.9 | 0.322 |
| 4- 860 | 4-1140 | 0.685 | 3.7 | 2.8 | 0.78 | 1.179 | 55.5 | 0.651 | 1.644 | 94.8 | 172.8 | --- | --- | -10.42 | 0.373 | 103.1 | 228.1 | -12.7 | 0.299 |
| 4- 860 | 4-1160 | 0.669 | 3.8 | 4.2 | 1.62 | 1.176 | 56.4 | 0.640 | 1.629 | 93.5 | 175.9 | --- | --- | -10.27 | 0.372 | 97.1 | 225.3 | -13.5 | 0.283 |
| 4- 860 | 4-1180 | 0.653 | 4.0 | 5.7 | 2.44 | 1.176 | 57.3 | 0.630 | 1.625 | 91.9 | 178.9 | --- | --- | -10.20 | 0.374 | 91.9 | 222.8 | -14.1 | 0.272 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 860 | 4-1200 | 0.639 | 4.2 | 7.4 | 3.27 | 1.176 | 58.2 | 0.620 | 1.627 | 90.0 | 181.6 | --- | 2.635 | -10.19 | 0.380 | 87.4 | 220.6 | -14.7 | 0.265 |
| 4- 860 | 4-1220 | 0.624 | 4.4 | 9.2 | 4.12 | 1.177 | 59.2 | 0.611 | 1.634 | 87.8 | 184.1 | --- | 2.632 | -10.25 | 0.389 | 83.6 | 218.9 | -15.2 | 0.262 |
| 4- 860 | 4-1240 | 0.610 | 4.7 | 11.2 | 4.98 | 1.179 | 60.2 | 0.602 | 1.645 | 85.5 | 186.5 | --- | 2.635 | -10.38 | 0.398 | 80.4 | 217.8 | -15.7 | 0.262 |
| 4- 860 | 4-1260 | 0.596 | 4.9 | 13.3 | 5.88 | 1.181 | 61.2 | 0.594 | 1.659 | 83.0 | 188.8 | --- | 2.644 | -10.58 | 0.408 | 77.6 | 217.2 | -16.1 | 0.264 |
| 4- 860 | 4-1280 | 0.583 | 5.1 | 15.7 | 6.83 | 1.183 | 62.2 | 0.586 | 1.674 | 80.4 | 190.9 | --- | 2.656 | -10.88 | 0.418 | 75.4 | 217.2 | -16.6 | 0.267 |
| 4- 860 | 4-1300 | 0.571 | 5.2 | 18.3 | 7.85 | 1.186 | 63.3 | 0.579 | 1.692 | 77.6 | 192.9 | --- | 2.671 | -11.28 | 0.429 | 73.4 | 217.7 | -17.2 | 0.272 |
| 4- 860 | 4-1320 | 0.560 | 5.1 | 21.2 | 8.97 | 1.189 | 64.4 | 0.572 | 1.711 | 74.7 | 194.9 | --- | 2.689 | -11.80 | 0.439 | 71.8 | 218.8 | -17.9 | 0.277 |
| 4- 860 | 4-1340 | 0.550 | 4.8 | 24.4 | 10.20 | 1.192 | 65.5 | 0.565 | 1.731 | 71.8 | 196.7 | --- | 2.709 | -12.46 | 0.448 | 70.5 | 220.2 | -18.7 | 0.284 |
| 4- 860 | 4-1360 | 0.543 | 4.1 | 28.0 | 11.59 | 1.194 | 66.6 | 0.559 | 1.752 | 68.7 | 198.5 | --- | 2.731 | -13.31 | 0.458 | 69.3 | 222.1 | -19.7 | 0.292 |
| 4- 860 | 4-1380 | 0.540 | 3.0 | 32.0 | 13.20 | 1.197 | 67.7 | 0.553 | 1.773 | 65.5 | 200.1 | --- | 2.754 | -14.39 | 0.466 | 68.4 | 224.4 | -21.0 | 0.301 |
| 4- 860 | 4-1400 | 0.542 | 1.0 | 36.4 | 15.11 | 1.200 | 68.9 | 0.548 | 1.795 | 62.3 | 201.7 | --- | 2.779 | -15.79 | 0.474 | 67.6 | 227.1 | -22.5 | 0.311 |
| 4- 860 | 4-1420 | 0.552 | 357.9 | 41.1 | 17.43 | 1.203 | 70.0 | 0.543 | 1.817 | 59.0 | 203.2 | --- | 2.804 | -17.62 | 0.481 | 66.8 | 230.2 | -24.4 | 0.324 |
| 4- 860 | 4-1440 | 0.573 | 352.9 | 46.0 | 20.37 | 1.206 | 71.1 | 0.539 | 1.840 | 55.7 | 204.7 | --- | 2.831 | -20.07 | 0.488 | 66.2 | 233.8 | -26.7 | 0.341 |
| 4- 860 | 4-1460 | 0.611 | 345.2 | 50.5 | 24.22 | 1.209 | 72.3 | 0.535 | 1.862 | 52.4 | 206.0 | --- | 2.860 | -23.45 | 0.494 | 65.6 | 238.0 | -29.5 | 0.364 |
| 4- 860 | 4-1480 | 0.678 | 333.7 | 53.7 | 29.54 | 1.211 | 73.3 | 0.533 | 1.885 | 49.2 | 207.3 | --- | 2.889 | -28.31 | 0.500 | 65.1 | 243.2 | -32.8 | 0.396 |
| 4- 860 | 4-1500 | 0.791 | 318.7 | 53.9 | 37.31 | 1.214 | 74.4 | 0.531 | 1.908 | 46.2 | 208.5 | --- | 2.921 | -35.63 | 0.504 | 64.6 | 249.9 | -36.4 | 0.448 |
| 4- 860 | 4-1520 | 0.978 | 303.6 | 49.3 | 49.35 | 1.216 | 75.2 | 0.531 | 1.930 | 43.5 | 209.6 | --- | 2.955 | -47.22 | 0.509 | 64.0 | 259.0 | -39.2 | 0.532 |
| 4- 870 | 4-1030 | 0.941 | 9.5 | -1.2 | -5.24 | 1.258 | 43.6 | 0.827 | 2.378 | 107.5 | 151.6 | --- | --- | -13.73 | 0.552 | 145.3 | 237.2 | -7.3 | 0.585 |
| 4- 870 | 4-1050 | 0.897 | 8.6 | -0.4 | -3.87 | 1.224 | 44.9 | 0.791 | 1.985 | 108.8 | 157.2 | --- | --- | -12.78 | 0.474 | 138.5 | 235.6 | -7.9 | 0.504 |
| 4- 870 | 4-1070 | 0.863 | 8.0 | 0.6 | -2.66 | 1.202 | 46.1 | 0.764 | 1.794 | 109.2 | 161.9 | --- | --- | -12.01 | 0.419 | 130.9 | 233.6 | -8.6 | 0.442 |
| 4- 870 | 4-1090 | 0.835 | 7.7 | 1.6 | -1.56 | 1.188 | 47.2 | 0.743 | 1.690 | 109.0 | 166.0 | --- | --- | -11.38 | 0.382 | 122.8 | 231.3 | -9.2 | 0.395 |
| 4- 870 | 4-1110 | 0.810 | 7.7 | 2.6 | -0.56 | 1.179 | 48.3 | 0.726 | 1.631 | 108.2 | 169.5 | --- | --- | -10.86 | 0.359 | 114.7 | 228.8 | -9.9 | 0.358 |
| 4- 870 | 4-1130 | 0.788 | 7.8 | 3.8 | 0.37 | 1.174 | 49.4 | 0.710 | 1.598 | 107.0 | 172.8 | --- | --- | -10.45 | 0.347 | 106.8 | 226.1 | -10.5 | 0.331 |
| 4- 870 | 4-1150 | 0.768 | 8.0 | 5.1 | 1.25 | 1.171 | 50.5 | 0.697 | 1.582 | 105.4 | 175.7 | --- | --- | -10.12 | 0.343 | 99.7 | 223.6 | -11.0 | 0.311 |
| 4- 870 | 4-1170 | 0.749 | 8.3 | 6.4 | 2.09 | 1.170 | 51.6 | 0.684 | 1.577 | 103.5 | 178.4 | --- | --- | -9.87 | 0.346 | 93.4 | 221.2 | -11.5 | 0.297 |
| 4- 870 | 4-1190 | 0.730 | 8.7 | 7.8 | 2.91 | 1.170 | 52.7 | 0.672 | 1.579 | 101.5 | 180.9 | --- | 2.641 | -9.69 | 0.352 | 88.1 | 219.2 | -11.9 | 0.288 |
| 4- 870 | 4-1210 | 0.712 | 9.2 | 9.3 | 3.70 | 1.172 | 53.9 | 0.661 | 1.587 | 99.2 | 183.3 | --- | 2.636 | -9.57 | 0.362 | 83.6 | 217.6 | -12.2 | 0.283 |
| 4- 870 | 4-1230 | 0.695 | 9.6 | 10.9 | 4.49 | 1.174 | 55.0 | 0.651 | 1.598 | 96.8 | 185.6 | --- | 2.638 | -9.52 | 0.373 | 79.8 | 216.5 | -12.5 | 0.281 |
| 4- 870 | 4-1250 | 0.678 | 10.1 | 12.7 | 5.29 | 1.176 | 56.2 | 0.640 | 1.613 | 94.2 | 187.7 | --- | 2.646 | -9.54 | 0.385 | 76.7 | 216.0 | -12.8 | 0.281 |
| 4- 870 | 4-1270 | 0.661 | 10.6 | 14.5 | 6.10 | 1.179 | 57.4 | 0.630 | 1.631 | 91.5 | 189.8 | --- | 2.659 | -9.62 | 0.397 | 74.2 | 216.0 | -13.1 | 0.282 |
| 4- 870 | 4-1290 | 0.645 | 11.0 | 16.6 | 6.94 | 1.182 | 58.5 | 0.621 | 1.650 | 88.6 | 191.7 | --- | 2.674 | -9.78 | 0.409 | 72.1 | 216.4 | -13.4 | 0.285 |
| 4- 870 | 4-1310 | 0.629 | 11.4 | 18.8 | 7.81 | 1.185 | 59.8 | 0.612 | 1.670 | 85.7 | 193.6 | --- | 2.692 | -10.01 | 0.421 | 70.4 | 217.4 | -13.8 | 0.288 |
| 4- 870 | 4-1330 | 0.615 | 11.7 | 21.2 | 8.74 | 1.188 | 61.0 | 0.603 | 1.691 | 82.6 | 195.4 | --- | 2.712 | -10.34 | 0.432 | 69.0 | 218.8 | -14.3 | 0.293 |
| 4- 870 | 4-1350 | 0.601 | 11.8 | 23.9 | 9.74 | 1.191 | 62.2 | 0.595 | 1.714 | 79.5 | 197.1 | --- | 2.733 | -10.77 | 0.443 | 67.9 | 220.5 | -14.9 | 0.298 |
| 4- 870 | 4-1370 | 0.589 | 11.8 | 26.8 | 10.84 | 1.195 | 63.4 | 0.587 | 1.737 | 76.2 | 198.8 | --- | 2.756 | -11.32 | 0.453 | 66.9 | 222.6 | -15.6 | 0.303 |
| 4- 870 | 4-1390 | 0.579 | 11.5 | 30.1 | 12.08 | 1.198 | 64.6 | 0.580 | 1.760 | 72.9 | 200.4 | --- | 2.780 | -12.03 | 0.462 | 66.1 | 225.0 | -16.5 | 0.310 |
| 4- 870 | 4-1410 | 0.572 | 10.7 | 33.7 | 13.48 | 1.201 | 65.9 | 0.573 | 1.784 | 69.6 | 201.9 | --- | 2.806 | -12.93 | 0.470 | 65.5 | 227.7 | -17.6 | 0.317 |
| 4- 870 | 4-1430 | 0.569 | 9.4 | 37.7 | 15.13 | 1.204 | 67.1 | 0.567 | 1.808 | 66.2 | 203.4 | --- | 2.832 | -14.09 | 0.478 | 64.9 | 230.7 | -19.0 | 0.325 |
| 4- 870 | 4-1450 | 0.572 | 7.1 | 42.0 | 17.10 | 1.207 | 68.4 | 0.561 | 1.832 | 62.7 | 204.7 | --- | 2.859 | -15.59 | 0.485 | 64.4 | 234.0 | -20.6 | 0.334 |
| 4- 870 | 4-1470 | 0.584 | 3.4 | 46.6 | 19.55 | 1.210 | 69.6 | 0.556 | 1.856 | 59.2 | 206.0 | --- | 2.887 | -17.59 | 0.492 | 64.0 | 237.7 | -22.7 | 0.346 |
| 4- 870 | 4-1490 | 0.609 | 357.3 | 51.1 | 22.70 | 1.213 | 70.8 | 0.551 | 1.880 | 55.8 | 207.3 | --- | 2.916 | -20.29 | 0.497 | 63.6 | 241.8 | -25.3 | 0.362 |
| 4- 870 | 4-1510 | 0.655 | 347.8 | 55.0 | 26.94 | 1.216 | 72.0 | 0.548 | 1.904 | 52.3 | 208.4 | --- | 2.946 | -24.10 | 0.503 | 63.3 | 246.6 | -28.4 | 0.385 |
| 4- 870 | 4-1530 | 0.735 | 334.1 | 56.9 | 32.98 | 1.218 | 73.1 | 0.545 | 1.928 | 49.0 | 209.5 | --- | 2.978 | -29.72 | 0.507 | 63.0 | 252.4 | -32.2 | 0.420 |
| 4- 870 | 4-1550 | 0.872 | 317.9 | 54.9 | 42.16 | 1.221 | 74.2 | 0.543 | 1.951 | 45.9 | 210.5 | --- | 3.012 | -38.48 | 0.511 | 62.6 | 260.2 | -36.1 | 0.479 |
| 4- 870 | 4-1570 | 1.104 | 304.2 | 47.3 | 56.91 | 1.223 | 75.0 | 0.543 | 1.975 | 43.4 | 211.4 | --- | 3.048 | -52.83 | 0.514 | 62.2 | 270.9 | -38.7 | 0.580 |
| 4- 880 | 4-1040 | 1.053 | 11.9 | 1.0 | -5.53 | 1.237 | 36.2 | 0.864 | 2.085 | 122.8 | 159.2 | --- | --- | -14.55 | 0.497 | 147.9 | 233.4 | -6.5 | 0.585 |
| 4- 880 | 4-1060 | 1.004 | 11.6 | 1.9 | -3.85 | 1.207 | 38.0 | 0.835 | 1.809 | 122.7 | 163.3 | --- | --- | -13.24 | 0.422 | 140.2 | 231.5 | -7.0 | 0.509 |
| 4- 880 | 4-1080 | 0.965 | 11.5 | 2.9 | -2.43 | 1.188 | 39.6 | 0.813 | 1.671 | 122.0 | 166.9 | --- | --- | -12.19 | 0.370 | 131.5 | 229.4 | -7.5 | 0.450 |
| 4- 880 | 4-1100 | 0.932 | 11.6 | 3.9 | -1.19 | 1.176 | 41.1 | 0.793 | 1.596 | 120.8 | 170.0 | --- | --- | -11.35 | 0.336 | 122.1 | 227.0 | -7.9 | 0.406 |
| 4- 880 | 4-1120 | 0.903 | 11.9 | 5.0 | -0.09 | 1.169 | 42.5 | 0.776 | 1.555 | 119.2 | 172.9 | --- | --- | -10.66 | 0.317 | 112.7 | 224.5 | -8.3 | 0.373 |
| 4- 880 | 4-1140 | 0.877 | 12.3 | 6.2 | 0.90 | 1.165 | 43.9 | 0.760 | 1.534 | 117.4 | 175.5 | --- | --- | -10.11 | 0.310 | 103.8 | 222.1 | -8.7 | 0.348 |
| 4- 880 | 4-1160 | 0.853 | 12.8 | 7.4 | 1.80 | 1.164 | 45.3 | 0.745 | 1.527 | 115.3 | 177.9 | --- | --- | -9.66 | 0.311 | 96.0 | 219.8 | -9.0 | 0.331 |
| 4- 880 | 4-1180 | 0.831 | 13.3 | 8.6 | 2.65 | 1.164 | 46.7 | 0.731 | 1.529 | 113.0 | 180.3 | --- | 2.647 | -9.30 | 0.319 | 89.3 | 217.9 | -9.3 | 0.318 |
| 4- 880 | 4-1200 | 0.809 | 13.9 | 10.0 | 3.44 | 1.165 | 48.0 | 0.718 | 1.536 | 110.6 | 182.4 | --- | 2.640 | -9.02 | 0.330 | 83.8 | 216.5 | -9.5 | 0.311 |
| 4- 880 | 4-1220 | 0.788 | 14.6 | 11.4 | 4.21 | 1.168 | 49.4 | 0.705 | 1.549 | 108.0 | 184.5 | --- | 2.641 | -8.82 | 0.343 | 79.3 | 215.5 | -9.7 | 0.306 |
| 4- 880 | 4-1240 | 0.768 | 15.2 | 12.8 | 4.95 | 1.170 | 50.7 | 0.693 | 1.565 | 105.3 | 186.6 | --- | 2.648 | -8.67 | 0.357 | 75.7 | 214.9 | -9.9 | 0.304 |
| 4- 880 | 4-1260 | 0.748 | 15.9 | 14.4 | 5.67 | 1.174 | 52.1 | 0.681 | 1.583 | 102.5 | 188.5 | --- | 2.660 | -8.59 | 0.371 | 72.8 | 214.9 | -10.1 | 0.303 |
| 4- 880 | 4-1280 | 0.728 | 16.6 | 16.0 | 6.40 | 1.177 | 53.4 | 0.669 | 1.603 | 99.5 | 190.4 | --- | 2.676 | -8.57 | 0.385 | 70.5 | 215.4 | -10.3 | 0.304 |
| 4- 880 | 4-1300 | 0.709 | 17.2 | 17.8 | 7.13 | 1.180 | 54.8 | 0.658 | 1.625 | 96.5 | 192.2 | --- | 2.694 | -8.62 | 0.399 | 68.7 | 216.3 | -10.5 | 0.306 |
| 4- 880 | 4-1320 | 0.691 | 17.8 | 19.7 | 7.88 | 1.184 | 56.1 | 0.647 | 1.648 | 93.4 | 194.0 | --- | 2.714 | -8.72 | 0.412 | 67.2 | 217.6 | -10.8 | 0.309 |
| 4- 880 | 4-1340 | 0.673 | 18.4 | 21.8 | 8.66 | 1.188 | 57.4 | 0.637 | 1.671 | 90.2 | 195.7 | --- | 2.736 | -8.90 | 0.425 | 66.0 | 219.2 | -11.1 | 0.312 |
| 4- 880 | 4-1360 | 0.656 | 18.9 | 24.0 | 9.48 | 1.191 | 58.8 | 0.627 | 1.696 | 87.0 | 197.3 | --- | 2.759 | -9.15 | 0.436 | 65.1 | 221.2 | -11.5 | 0.315 |
| 4- 880 | 4-1380 | 0.639 | 19.3 | 26.5 | 10.35 | 1.195 | 60.1 | 0.618 | 1.720 | 83.6 | 198.9 | --- | 2.783 | -9.49 | 0.447 | 64.3 | 223.5 | -12.0 | 0.319 |
| 4- 880 | 4-1400 | 0.624 | 19.6 | 29.1 | 11.30 | 1.198 | 61.5 | 0.609 | 1.746 | 80.2 | 200.4 | --- | 2.808 | -9.93 | 0.457 | 63.7 | 226.0 | -12.6 | 0.323 |
| 4- 880 | 4-1420 | 0.611 | 19.6 | 32.1 | 12.36 | 1.202 | 62.8 | 0.600 | 1.771 | 76.8 | 201.9 | --- | 2.834 | -10.50 | 0.466 | 63.2 | 228.8 | -13.4 | 0.328 |
| 4- 880 | 4-1440 | 0.601 | 19.4 | 35.3 | 13.54 | 1.205 | 64.1 | 0.593 | 1.797 | 73.3 | 203.3 | --- | 2.861 | -11.22 | 0.475 | 62.8 | 231.8 | -14.3 | 0.333 |
| 4- 880 | 4-1460 | 0.593 | 18.7 | 38.9 | 14.91 | 1.208 | 65.5 | 0.585 | 1.822 | 69.7 | 204.6 | --- | 2.889 | -12.15 | 0.482 | 62.5 | 235.0 | -15.4 | 0.338 |
| 4- 880 | 4-1480 | 0.590 | 17.3 | 42.8 | 16.54 | 1.211 | 66.8 | 0.579 | 1.848 | 66.1 | 205.9 | --- | 2.917 | -13.34 | 0.489 | 62.2 | 238.4 | -16.8 | 0.344 |
| 4- 880 | 4-1500 | 0.593 | 14.8 | 47.1 | 18.51 | 1.215 | 68.1 | 0.573 | 1.873 | 62.5 | 207.1 | --- | 2.946 | -14.91 | 0.495 | 62.0 | 242.1 | -18.6 | 0.352 |
| 4- 880 | 4-1520 | 0.606 | 10.5 | 51.6 | 21.00 | 1.217 | 69.4 | 0.567 | 1.899 | 58.9 | 208.2 | --- | 2.976 | -17.00 | 0.500 | 61.8 | 246.1 | -20.8 | 0.363 |
| 4- 880 | 4-1540 | 0.634 | 3.4 | 55.9 | 24.29 | 1.220 | 70.7 | 0.563 | 1.924 | 55.3 | 209.3 | --- | 3.006 | -19.89 | 0.505 | 61.6 | 250.5 | -23.6 | 0.377 |
| 4- 880 | 4-1560 | 0.686 | 352.0 | 59.3 | 28.84 | 1.223 | 71.9 | 0.559 | 1.949 | 51.7 | 210.3 | --- | 3.038 | -24.06 | 0.509 | 61.4 | 255.6 | -27.1 | 0.400 |
| 4- 880 | 4-1580 | 0.779 | 335.8 | 60.0 | 35.57 | 1.226 | 73.1 | 0.556 | 1.974 | 48.3 | 211.2 | --- | 3.071 | -30.42 | 0.512 | 61.2 | 261.9 | -31.4 | 0.437 |
| 4- 890 | 4-1050 | 1.167 | 15.1 | 3.2 | -6.06 | 1.219 | 28.6 | 0.907 | 1.889 | 136.8 | 165.4 | --- | --- | -15.54 | 0.447 | 151.8 | 229.8 | -5.4 | 0.597 |
| 4- 890 | 4-1070 | 1.112 | 15.2 | 4.2 | -3.90 | 1.191 | 30.9 | 0.884 | 1.680 | 135.4 | 168.2 | --- | --- | -13.68 | 0.372 | 143.2 | 227.8 | -5.8 | 0.524 |
| 4- 890 | 4-1090 | 1.068 | 15.5 | 5.2 | -2.17 | 1.174 | 32.9 | 0.863 | 1.575 | 133.6 | 170.8 | --- | --- | -12.26 | 0.320 | 133.1 | 225.5 | -6.1 | 0.468 |
| 4- 890 | 4-1110 | 1.030 | 16.0 | 6.3 | -0.74 | 1.165 | 34.8 | 0.844 | 1.519 | 131.6 | 173.1 | --- | --- | -11.15 | 0.289 | 122.0 | 223.2 | -6.4 | 0.426 |
| 4- 890 | 4-1130 | 0.997 | 16.6 | 7.4 | 0.48 | 1.159 | 36.6 | 0.827 | 1.491 | 129.4 | 175.4 | --- | --- | -10.27 | 0.274 | 110.8 | 221.0 | -6.6 | 0.395 |
| 4- 890 | 4-1150 | 0.967 | 17.2 | 8.6 | 1.53 | 1.157 | 38.4 | 0.810 | 1.479 | 127.1 | 177.5 | --- | --- | -9.57 | 0.272 | 100.5 | 218.9 | -6.8 | 0.372 |
| 4- 890 | 4-1170 | 0.939 | 18.0 | 9.7 | 2.47 | 1.157 | 40.0 | 0.794 | 1.479 | 124.5 | 179.5 | --- | --- | -9.00 | 0.279 | 91.8 | 217.1 | -7.0 | 0.356 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 890 | 4-1190 | 0.913 | 18.7 | 10.9 | 3.31 | 1.158 | 41.6 | 0.779 | 1.486 | 121.9 | 181.5 | --- | 2.643 | -8.54 | 0.291 | 84.7 | 215.7 | -7.2 | 0.345 |
| 4- 890 | 4-1210 | 0.889 | 19.5 | 12.2 | 4.09 | 1.161 | 43.2 | 0.764 | 1.498 | 119.2 | 183.4 | --- | 2.643 | -8.18 | 0.306 | 79.0 | 214.7 | -7.3 | 0.337 |
| 4- 890 | 4-1230 | 0.865 | 20.3 | 13.5 | 4.81 | 1.164 | 44.8 | 0.750 | 1.514 | 116.3 | 185.3 | --- | 2.649 | -7.89 | 0.323 | 74.6 | 214.2 | -7.4 | 0.333 |
| 4- 890 | 4-1250 | 0.842 | 21.2 | 14.8 | 5.50 | 1.167 | 46.3 | 0.736 | 1.533 | 113.4 | 187.1 | --- | 2.661 | -7.67 | 0.340 | 71.2 | 214.2 | -7.5 | 0.330 |
| 4- 890 | 4-1270 | 0.819 | 22.0 | 16.3 | 6.16 | 1.171 | 47.9 | 0.722 | 1.554 | 110.4 | 188.9 | --- | 2.676 | -7.51 | 0.357 | 68.6 | 214.7 | -7.6 | 0.329 |
| 4- 890 | 4-1290 | 0.797 | 22.9 | 17.7 | 6.80 | 1.175 | 49.4 | 0.709 | 1.576 | 107.3 | 190.7 | --- | 2.695 | -7.41 | 0.373 | 66.6 | 215.5 | -7.7 | 0.330 |
| 4- 890 | 4-1310 | 0.775 | 23.7 | 19.3 | 7.43 | 1.179 | 50.9 | 0.697 | 1.600 | 104.1 | 192.4 | --- | 2.715 | -7.36 | 0.389 | 65.0 | 216.7 | -7.8 | 0.331 |
| 4- 890 | 4-1330 | 0.754 | 24.5 | 21.0 | 8.06 | 1.183 | 52.3 | 0.684 | 1.625 | 100.9 | 194.0 | --- | 2.737 | -7.37 | 0.403 | 63.7 | 218.3 | -8.0 | 0.332 |
| 4- 890 | 4-1350 | 0.733 | 25.3 | 22.8 | 8.71 | 1.187 | 53.8 | 0.672 | 1.651 | 97.6 | 195.7 | --- | 2.761 | -7.43 | 0.417 | 62.8 | 220.2 | -8.3 | 0.334 |
| 4- 890 | 4-1370 | 0.713 | 26.1 | 24.6 | 9.37 | 1.191 | 55.3 | 0.661 | 1.677 | 94.2 | 197.2 | --- | 2.786 | -7.55 | 0.430 | 62.0 | 222.4 | -8.5 | 0.336 |
| 4- 890 | 4-1390 | 0.693 | 26.9 | 26.7 | 10.05 | 1.195 | 56.7 | 0.650 | 1.704 | 90.8 | 198.7 | --- | 2.811 | -7.74 | 0.441 | 61.5 | 224.8 | -8.9 | 0.338 |
| 4- 890 | 4-1410 | 0.675 | 27.5 | 28.9 | 10.78 | 1.199 | 58.2 | 0.640 | 1.731 | 87.3 | 200.2 | --- | 2.838 | -7.99 | 0.452 | 61.0 | 227.5 | -9.3 | 0.341 |
| 4- 890 | 4-1430 | 0.657 | 28.1 | 31.3 | 11.57 | 1.202 | 59.6 | 0.630 | 1.757 | 83.8 | 201.6 | --- | 2.864 | -8.33 | 0.462 | 60.7 | 230.3 | -9.8 | 0.343 |
| 4- 890 | 4-1450 | 0.641 | 28.6 | 33.9 | 12.43 | 1.206 | 61.0 | 0.621 | 1.785 | 80.2 | 203.0 | --- | 2.892 | -8.76 | 0.470 | 60.5 | 233.3 | -10.4 | 0.346 |
| 4- 890 | 4-1470 | 0.627 | 28.8 | 36.8 | 13.39 | 1.209 | 62.5 | 0.612 | 1.812 | 76.6 | 204.3 | --- | 2.920 | -9.32 | 0.478 | 60.3 | 236.5 | -11.1 | 0.349 |
| 4- 890 | 4-1490 | 0.615 | 28.7 | 40.0 | 14.48 | 1.213 | 63.9 | 0.604 | 1.839 | 73.0 | 205.6 | --- | 2.948 | -10.02 | 0.485 | 60.2 | 239.8 | -12.0 | 0.352 |
| 4- 890 | 4-1510 | 0.606 | 28.2 | 43.5 | 15.75 | 1.216 | 65.3 | 0.596 | 1.865 | 69.3 | 206.7 | --- | 2.977 | -10.93 | 0.492 | 60.2 | 243.3 | -13.1 | 0.356 |
| 4- 890 | 4-1530 | 0.602 | 27.0 | 47.4 | 17.28 | 1.219 | 66.7 | 0.589 | 1.892 | 65.6 | 207.9 | --- | 3.007 | -12.09 | 0.497 | 60.1 | 247.0 | -14.5 | 0.360 |
| 4- 890 | 4-1550 | 0.605 | 24.7 | 51.6 | 19.17 | 1.222 | 68.0 | 0.583 | 1.919 | 61.8 | 208.9 | --- | 3.037 | -13.64 | 0.502 | 60.1 | 250.8 | -16.3 | 0.366 |
| 4- 890 | 4-1570 | 0.617 | 20.3 | 56.0 | 21.60 | 1.225 | 69.4 | 0.578 | 1.945 | 58.1 | 209.9 | --- | 3.068 | -15.73 | 0.507 | 60.0 | 254.9 | -18.5 | 0.374 |
| 4- 890 | 4-1590 | 0.645 | 12.4 | 60.4 | 24.88 | 1.228 | 70.7 | 0.573 | 1.971 | 54.4 | 210.9 | --- | 3.100 | -18.69 | 0.510 | 60.0 | 259.4 | -21.5 | 0.387 |
| 4- 900 | 4-1060 | 1.281 | 18.8 | 5.4 | -7.10 | 1.204 | 20.9 | 0.947 | 1.757 | 149.7 | 170.4 | --- | --- | -16.96 | 0.403 | 157.3 | 226.7 | -4.2 | 0.621 |
| 4- 900 | 4-1080 | 1.220 | 19.4 | 6.5 | -4.07 | 1.179 | 23.6 | 0.929 | 1.587 | 147.1 | 172.0 | --- | --- | -14.16 | 0.324 | 148.0 | 224.6 | -4.4 | 0.549 |
| 4- 900 | 4-1100 | 1.170 | 20.1 | 7.6 | -1.84 | 1.163 | 26.1 | 0.911 | 1.502 | 144.5 | 173.7 | --- | --- | -12.18 | 0.271 | 136.4 | 222.5 | -4.6 | 0.495 |
| 4- 900 | 4-1120 | 1.128 | 20.8 | 8.7 | -0.14 | 1.155 | 28.4 | 0.893 | 1.458 | 141.7 | 175.4 | --- | --- | -10.72 | 0.241 | 122.9 | 220.4 | -4.7 | 0.454 |
| 4- 900 | 4-1140 | 1.091 | 21.7 | 9.8 | 1.23 | 1.151 | 30.6 | 0.875 | 1.439 | 139.0 | 177.1 | --- | --- | -9.61 | 0.229 | 109.1 | 218.4 | -4.9 | 0.425 |
| 4- 900 | 4-1160 | 1.057 | 22.6 | 10.9 | 2.36 | 1.150 | 32.6 | 0.858 | 1.433 | 136.2 | 178.9 | --- | --- | -8.75 | 0.232 | 96.8 | 216.7 | -5.0 | 0.403 |
| 4- 900 | 4-1180 | 1.026 | 23.5 | 12.1 | 3.32 | 1.151 | 34.6 | 0.842 | 1.437 | 133.3 | 180.6 | --- | 2.647 | -8.07 | 0.245 | 86.9 | 215.4 | -5.1 | 0.387 |
| 4- 900 | 4-1200 | 0.997 | 24.5 | 13.2 | 4.16 | 1.153 | 36.5 | 0.826 | 1.448 | 130.4 | 182.3 | --- | 2.643 | -7.53 | 0.262 | 79.3 | 214.4 | -5.2 | 0.376 |
| 4- 900 | 4-1220 | 0.969 | 25.4 | 14.4 | 4.90 | 1.156 | 38.3 | 0.810 | 1.463 | 127.4 | 184.0 | --- | 2.648 | -7.09 | 0.282 | 73.7 | 213.9 | -5.2 | 0.368 |
| 4- 900 | 4-1240 | 0.942 | 26.4 | 15.6 | 5.57 | 1.160 | 40.1 | 0.794 | 1.482 | 124.3 | 185.7 | --- | 2.659 | -6.75 | 0.303 | 69.5 | 213.9 | -5.3 | 0.363 |
| 4- 900 | 4-1260 | 0.916 | 27.4 | 16.9 | 6.19 | 1.164 | 41.8 | 0.779 | 1.503 | 121.2 | 187.3 | --- | 2.674 | -6.48 | 0.323 | 66.3 | 214.3 | -5.3 | 0.360 |
| 4- 900 | 4-1280 | 0.891 | 28.4 | 18.2 | 6.77 | 1.168 | 43.5 | 0.764 | 1.527 | 118.0 | 189.0 | --- | 2.693 | -6.26 | 0.342 | 64.0 | 215.1 | -5.4 | 0.358 |
| 4- 900 | 4-1300 | 0.866 | 29.4 | 19.5 | 7.32 | 1.173 | 45.2 | 0.750 | 1.551 | 114.8 | 190.6 | --- | 2.714 | -6.11 | 0.361 | 62.3 | 216.2 | -5.4 | 0.358 |
| 4- 900 | 4-1320 | 0.842 | 30.5 | 20.9 | 7.85 | 1.177 | 46.9 | 0.736 | 1.577 | 111.5 | 192.2 | --- | 2.737 | -6.00 | 0.378 | 61.0 | 217.7 | -5.5 | 0.358 |
| 4- 900 | 4-1340 | 0.818 | 31.5 | 22.4 | 8.37 | 1.181 | 48.5 | 0.722 | 1.604 | 108.2 | 193.8 | --- | 2.762 | -5.94 | 0.394 | 60.0 | 219.5 | -5.7 | 0.358 |
| 4- 900 | 4-1360 | 0.795 | 32.5 | 23.9 | 8.88 | 1.186 | 50.1 | 0.709 | 1.631 | 104.8 | 195.4 | --- | 2.787 | -5.92 | 0.409 | 59.3 | 221.6 | -5.8 | 0.359 |
| 4- 900 | 4-1380 | 0.772 | 33.5 | 25.5 | 9.40 | 1.190 | 51.7 | 0.696 | 1.659 | 101.3 | 196.9 | --- | 2.813 | -5.95 | 0.422 | 58.8 | 224.0 | -6.0 | 0.359 |
| 4- 900 | 4-1400 | 0.750 | 34.5 | 27.3 | 9.92 | 1.194 | 53.2 | 0.684 | 1.687 | 97.8 | 198.4 | --- | 2.840 | -6.02 | 0.435 | 58.5 | 226.5 | -6.2 | 0.360 |
| 4- 900 | 4-1420 | 0.728 | 35.5 | 29.1 | 10.47 | 1.198 | 54.8 | 0.672 | 1.715 | 94.3 | 199.8 | --- | 2.867 | -6.15 | 0.446 | 58.2 | 229.2 | -6.5 | 0.361 |
| 4- 900 | 4-1440 | 0.708 | 36.4 | 31.0 | 11.04 | 1.202 | 56.3 | 0.661 | 1.743 | 90.7 | 201.2 | --- | 2.895 | -6.32 | 0.456 | 58.1 | 232.2 | -6.8 | 0.362 |
| 4- 900 | 4-1460 | 0.687 | 37.4 | 33.2 | 11.64 | 1.206 | 57.8 | 0.650 | 1.772 | 87.1 | 202.5 | --- | 2.924 | -6.56 | 0.466 | 58.0 | 235.2 | -7.1 | 0.363 |
| 4- 900 | 4-1480 | 0.669 | 38.2 | 35.5 | 12.30 | 1.210 | 59.4 | 0.640 | 1.800 | 83.4 | 203.8 | --- | 2.952 | -6.87 | 0.474 | 58.0 | 238.4 | -7.6 | 0.364 |
| 4- 900 | 4-1500 | 0.651 | 38.9 | 38.0 | 13.03 | 1.213 | 60.8 | 0.631 | 1.828 | 79.7 | 205.1 | --- | 2.981 | -7.26 | 0.481 | 58.1 | 241.7 | -8.1 | 0.365 |
| 4- 900 | 4-1520 | 0.635 | 39.5 | 40.7 | 13.85 | 1.217 | 62.3 | 0.622 | 1.856 | 76.0 | 206.2 | --- | 3.011 | -7.76 | 0.488 | 58.1 | 245.1 | -8.8 | 0.367 |
| 4- 900 | 4-1540 | 0.621 | 39.9 | 43.7 | 14.79 | 1.220 | 63.8 | 0.613 | 1.884 | 72.3 | 207.4 | --- | 3.040 | -8.40 | 0.494 | 58.2 | 248.7 | -9.6 | 0.368 |
| 4- 900 | 4-1560 | 0.611 | 39.9 | 47.1 | 15.90 | 1.223 | 65.2 | 0.606 | 1.912 | 68.5 | 208.4 | --- | 3.070 | -9.22 | 0.499 | 58.3 | 252.3 | -10.6 | 0.370 |
| 4- 900 | 4-1580 | 0.604 | 39.3 | 50.8 | 17.24 | 1.226 | 66.7 | 0.599 | 1.939 | 64.7 | 209.4 | --- | 3.101 | -10.29 | 0.504 | 58.4 | 256.0 | -11.9 | 0.372 |
| 4- 900 | 4-1600 | 0.604 | 37.6 | 55.0 | 18.93 | 1.229 | 68.1 | 0.593 | 1.966 | 60.9 | 210.4 | --- | 3.132 | -11.71 | 0.508 | 58.5 | 259.9 | -13.5 | 0.376 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1120 | 4-1340 | 0.847 | 86.4 | 10.0 | -11.40 | 1.286 | 129.6 | 0.825 | 3.183 | 269.9 | 497.1 | 0.556 | --- | 1.22 | 0.682 | 144.9 | 316.3 | 0.8 | 0.627 |
| 4-1120 | 4-1360 | 0.787 | 86.5 | 9.1 | -11.27 | 1.249 | 127.4 | 0.764 | 2.441 | 270.0 | 502.2 | 0.576 | --- | 1.14 | 0.609 | 139.8 | 317.1 | 0.8 | 0.540 |
| 4-1120 | 4-1380 | 0.741 | 86.5 | 8.4 | -11.15 | 1.221 | 125.6 | 0.717 | 2.093 | 270.0 | 507.2 | 0.592 | --- | 1.07 | 0.551 | 134.4 | 317.2 | 0.9 | 0.468 |
| 4-1120 | 4-1400 | 0.707 | 86.5 | 7.8 | -11.04 | 1.201 | 124.3 | 0.682 | 1.898 | 270.0 | 512.2 | 0.604 | --- | 1.01 | 0.505 | 128.7 | 316.6 | 1.0 | 0.409 |
| 4-1120 | 4-1420 | 0.683 | 86.6 | 7.4 | -10.95 | 1.186 | 123.3 | 0.656 | 1.779 | 269.8 | 517.0 | 0.612 | --- | 0.97 | 0.469 | 122.9 | 315.1 | 1.1 | 0.360 |
| 4-1120 | 4-1440 | 0.666 | 86.8 | 7.2 | -10.86 | 1.175 | 122.7 | 0.638 | 1.702 | 269.4 | 521.6 | 0.616 | --- | 0.94 | 0.441 | 117.0 | 312.6 | 1.1 | 0.322 |
| 4-1120 | 4-1460 | 0.657 | 87.1 | 7.1 | -10.77 | 1.168 | 122.4 | 0.627 | 1.652 | 268.9 | 526.0 | 0.617 | --- | 0.92 | 0.419 | 111.1 | 309.2 | 1.2 | 0.294 |
| 4-1120 | 4-1480 | 0.654 | 87.4 | 7.2 | -10.69 | 1.162 | 122.4 | 0.621 | 1.619 | 268.0 | 530.2 | 0.613 | --- | 0.91 | 0.403 | 105.3 | 305.2 | 1.3 | 0.275 |
| 4-1120 | 4-1500 | 0.656 | 87.9 | 7.5 | -10.61 | 1.159 | 122.7 | 0.621 | 1.599 | 266.9 | 534.0 | 0.606 | --- | 0.90 | 0.391 | 99.6 | 300.9 | 1.3 | 0.265 |
| 4-1120 | 4-1520 | 0.664 | 88.5 | 8.0 | -10.54 | 1.157 | 123.2 | 0.625 | 1.586 | 265.5 | 537.6 | 0.594 | --- | 0.90 | 0.383 | 94.1 | 296.7 | 1.3 | 0.263 |
| 4-1120 | 4-1540 | 0.676 | 89.3 | 8.6 | -10.46 | 1.156 | 124.1 | 0.634 | 1.581 | 263.8 | 540.8 | 0.579 | 2.582 | 0.90 | 0.377 | 88.7 | 293.2 | 1.3 | 0.268 |
| 4-1120 | 4-1560 | 0.693 | 90.2 | 9.2 | -10.38 | 1.156 | 125.1 | 0.645 | 1.580 | 261.8 | 543.6 | 0.560 | 2.599 | 0.92 | 0.373 | 83.5 | 290.6 | 1.2 | 0.278 |
| 4-1120 | 4-1580 | 0.715 | 91.2 | 10.0 | -10.30 | 1.156 | 126.5 | 0.660 | 1.583 | 259.4 | 546.1 | 0.538 | 2.628 | 0.94 | 0.371 | 78.4 | 289.0 | 1.2 | 0.294 |
| 4-1120 | 4-1600 | 0.741 | 92.4 | 10.8 | -10.22 | 1.157 | 128.0 | 0.678 | 1.589 | 256.7 | 548.3 | 0.511 | 2.667 | 0.96 | 0.370 | 73.5 | 288.4 | 1.1 | 0.313 |
| 4-1120 | 4-1620 | 0.771 | 93.8 | 11.7 | -10.13 | 1.159 | 129.9 | 0.699 | 1.598 | 253.7 | 550.0 | 0.481 | 2.715 | 1.00 | 0.370 | 68.6 | 288.8 | 1.0 | 0.334 |
| 4-1120 | 4-1640 | 0.806 | 95.3 | 12.6 | -10.03 | 1.161 | 131.9 | 0.722 | 1.609 | 250.4 | 551.5 | 0.447 | 2.770 | 1.05 | 0.371 | 63.9 | 290.0 | 1.0 | 0.358 |
| 4-1120 | 4-1660 | 0.844 | 97.0 | 13.5 | -9.92 | 1.163 | 134.2 | 0.747 | 1.621 | 246.8 | 552.5 | 0.410 | 2.832 | 1.11 | 0.373 | 59.1 | 291.8 | 0.9 | 0.384 |
| 4-1120 | 4-1680 | 0.887 | 98.8 | 14.4 | -9.81 | 1.165 | 136.8 | 0.774 | 1.636 | 242.8 | 553.2 | 0.370 | 2.901 | 1.18 | 0.374 | 54.4 | 294.3 | 0.9 | 0.411 |
| 4-1120 | 4-1700 | 0.934 | 100.7 | 15.2 | -9.67 | 1.167 | 139.6 | 0.801 | 1.651 | 238.6 | 553.5 | 0.328 | 2.974 | 1.27 | 0.377 | 49.7 | 297.2 | 0.8 | 0.439 |
| 4-1120 | 4-1720 | 0.984 | 102.8 | 16.0 | -9.52 | 1.170 | 142.6 | 0.829 | 1.668 | 234.0 | 553.5 | 0.285 | 3.052 | 1.38 | 0.380 | 45.0 | 300.6 | 0.8 | 0.468 |
| 4-1120 | 4-1740 | 1.038 | 105.1 | 16.8 | -9.33 | 1.173 | 145.9 | 0.858 | 1.687 | 229.2 | 553.2 | 0.240 | 3.133 | 1.53 | 0.383 | 40.2 | 304.3 | 0.8 | 0.498 |
| 4-1120 | 4-1760 | 1.095 | 107.5 | 17.5 | -9.11 | 1.176 | 149.4 | 0.885 | 1.706 | 224.0 | 552.5 | 0.196 | 3.216 | 1.71 | 0.386 | 35.4 | 308.4 | 0.7 | 0.528 |
| 4-1120 | 4-1780 | 1.154 | 109.9 | 18.1 | -8.82 | 1.179 | 153.1 | 0.911 | 1.727 | 218.7 | 551.5 | 0.153 | 3.300 | 1.97 | 0.390 | 30.5 | 312.8 | 0.7 | 0.559 |
| 4-1120 | 4-1800 | 1.215 | 112.5 | 18.6 | -8.44 | 1.182 | 157.0 | 0.935 | 1.748 | 213.1 | 550.2 | 0.114 | 3.383 | 2.31 | 0.393 | 25.7 | 317.3 | 0.7 | 0.589 |
| 4-1120 | 4-1820 | 1.278 | 115.2 | 19.0 | -7.89 | 1.185 | 161.1 | 0.956 | 1.771 | 207.3 | 548.7 | 0.078 | 3.464 | 2.82 | 0.397 | 20.8 | 322.1 | 0.6 | 0.620 |
| 4-1120 | 4-1840 | 1.341 | 117.9 | 19.4 | -7.05 | 1.188 | 165.2 | 0.973 | 1.795 | 201.3 | 547.0 | 0.048 | 3.542 | 3.64 | 0.402 | 16.0 | 327.0 | 0.6 | 0.650 |
| 4-1130 | 4-1350 | 0.826 | 94.1 | 6.7 | -13.37 | 1.291 | 127.7 | 0.822 | 3.338 | 274.4 | 494.8 | 0.593 | --- | 4.06 | 0.693 | 144.2 | 319.8 | 2.6 | 0.625 |
| 4-1130 | 4-1370 | 0.764 | 94.0 | 6.1 | -12.88 | 1.254 | 125.5 | 0.757 | 2.528 | 274.5 | 499.9 | 0.613 | --- | 3.69 | 0.621 | 139.2 | 320.7 | 2.8 | 0.539 |
| 4-1130 | 4-1390 | 0.717 | 93.9 | 5.5 | -12.46 | 1.226 | 123.7 | 0.708 | 2.154 | 274.7 | 505.0 | 0.630 | --- | 3.41 | 0.563 | 134.0 | 321.1 | 3.0 | 0.467 |
| 4-1130 | 4-1410 | 0.681 | 93.8 | 5.1 | -12.10 | 1.206 | 122.3 | 0.670 | 1.947 | 274.7 | 510.1 | 0.642 | --- | 3.20 | 0.518 | 128.6 | 320.7 | 3.2 | 0.407 |
| 4-1130 | 4-1430 | 0.655 | 93.8 | 4.9 | -11.78 | 1.191 | 121.3 | 0.642 | 1.820 | 274.6 | 515.0 | 0.651 | --- | 3.02 | 0.482 | 123.0 | 319.4 | 3.4 | 0.358 |
| 4-1130 | 4-1450 | 0.637 | 93.8 | 4.9 | -11.49 | 1.180 | 120.6 | 0.623 | 1.739 | 274.4 | 519.7 | 0.656 | --- | 2.89 | 0.454 | 117.4 | 317.2 | 3.7 | 0.319 |
| 4-1130 | 4-1470 | 0.625 | 94.0 | 5.0 | -11.22 | 1.172 | 120.3 | 0.610 | 1.685 | 273.9 | 524.2 | 0.658 | --- | 2.79 | 0.433 | 111.9 | 314.2 | 3.9 | 0.290 |
| 4-1130 | 4-1490 | 0.620 | 94.3 | 5.3 | -10.97 | 1.167 | 120.2 | 0.603 | 1.650 | 273.2 | 528.5 | 0.656 | --- | 2.72 | 0.416 | 106.4 | 310.3 | 4.0 | 0.269 |
| 4-1130 | 4-1510 | 0.619 | 94.7 | 5.8 | -10.73 | 1.163 | 120.4 | 0.601 | 1.627 | 272.2 | 532.4 | 0.650 | --- | 2.67 | 0.404 | 101.1 | 306.1 | 4.1 | 0.257 |
| 4-1130 | 4-1530 | 0.624 | 95.2 | 6.4 | -10.50 | 1.161 | 120.8 | 0.603 | 1.614 | 271.0 | 536.1 | 0.641 | --- | 2.64 | 0.395 | 95.9 | 301.9 | 4.1 | 0.252 |
| 4-1130 | 4-1550 | 0.634 | 95.9 | 7.2 | -10.28 | 1.160 | 121.5 | 0.609 | 1.607 | 269.4 | 539.4 | 0.628 | --- | 2.63 | 0.389 | 90.9 | 298.2 | 4.0 | 0.255 |
| 4-1130 | 4-1570 | 0.647 | 96.7 | 8.0 | -10.05 | 1.159 | 122.4 | 0.619 | 1.605 | 267.6 | 542.5 | 0.611 | 2.599 | 2.64 | 0.384 | 86.0 | 295.3 | 3.9 | 0.263 |
| 4-1130 | 4-1590 | 0.665 | 97.7 | 8.9 | -9.83 | 1.160 | 123.6 | 0.632 | 1.607 | 265.4 | 545.1 | 0.591 | 2.623 | 2.67 | 0.382 | 81.3 | 293.3 | 3.7 | 0.275 |
| 4-1130 | 4-1610 | 0.687 | 98.9 | 9.8 | -9.60 | 1.161 | 124.9 | 0.648 | 1.612 | 262.9 | 547.5 | 0.568 | 2.657 | 2.71 | 0.380 | 76.7 | 292.4 | 3.4 | 0.291 |
| 4-1130 | 4-1630 | 0.713 | 100.2 | 10.8 | -9.36 | 1.162 | 126.5 | 0.666 | 1.620 | 260.2 | 549.5 | 0.541 | 2.699 | 2.78 | 0.379 | 72.3 | 292.4 | 3.2 | 0.310 |
| 4-1130 | 4-1650 | 0.742 | 101.6 | 11.8 | -9.11 | 1.164 | 128.3 | 0.687 | 1.630 | 257.1 | 551.1 | 0.511 | 2.749 | 2.88 | 0.379 | 67.9 | 293.2 | 3.0 | 0.332 |
| 4-1130 | 4-1670 | 0.776 | 103.2 | 12.7 | -8.84 | 1.165 | 130.3 | 0.709 | 1.642 | 253.8 | 552.5 | 0.477 | 2.806 | 2.99 | 0.380 | 63.5 | 294.7 | 2.9 | 0.354 |
| 4-1130 | 4-1690 | 0.813 | 104.9 | 13.6 | -8.56 | 1.168 | 132.6 | 0.734 | 1.655 | 250.2 | 553.5 | 0.440 | 2.870 | 3.14 | 0.381 | 59.2 | 296.8 | 2.7 | 0.379 |
| 4-1130 | 4-1710 | 0.855 | 106.8 | 14.5 | -8.24 | 1.170 | 135.0 | 0.760 | 1.670 | 246.3 | 554.1 | 0.401 | 2.938 | 3.33 | 0.383 | 54.9 | 299.4 | 2.6 | 0.404 |
| 4-1130 | 4-1730 | 0.899 | 108.8 | 15.4 | -7.88 | 1.172 | 137.7 | 0.787 | 1.686 | 242.1 | 554.4 | 0.360 | 3.012 | 3.56 | 0.385 | 50.5 | 302.5 | 2.5 | 0.430 |
| 4-1130 | 4-1750 | 0.948 | 110.9 | 16.1 | -7.48 | 1.175 | 140.6 | 0.814 | 1.703 | 237.7 | 554.5 | 0.316 | 3.089 | 3.84 | 0.387 | 46.1 | 305.9 | 2.3 | 0.457 |
| 4-1130 | 4-1770 | 0.999 | 113.1 | 16.8 | -7.01 | 1.177 | 143.7 | 0.842 | 1.721 | 233.0 | 554.2 | 0.272 | 3.170 | 4.20 | 0.390 | 41.7 | 309.7 | 2.2 | 0.485 |
| 4-1130 | 4-1790 | 1.054 | 115.5 | 17.4 | -6.44 | 1.180 | 147.1 | 0.869 | 1.740 | 228.0 | 553.6 | 0.228 | 3.253 | 4.65 | 0.393 | 37.3 | 313.7 | 2.1 | 0.514 |
| 4-1130 | 4-1810 | 1.111 | 117.9 | 17.9 | -5.75 | 1.183 | 150.6 | 0.895 | 1.760 | 222.8 | 552.7 | 0.184 | 3.337 | 5.24 | 0.396 | 32.7 | 318.0 | 2.1 | 0.542 |
| 4-1130 | 4-1830 | 1.170 | 120.5 | 18.3 | -4.86 | 1.186 | 154.3 | 0.920 | 1.782 | 217.4 | 551.6 | 0.143 | 3.420 | 6.02 | 0.399 | 28.2 | 322.5 | 2.0 | 0.571 |
| 4-1130 | 4-1850 | 1.230 | 123.1 | 18.6 | -3.66 | 1.189 | 158.1 | 0.942 | 1.804 | 211.9 | 550.2 | 0.105 | 3.503 | 7.12 | 0.403 | 23.7 | 327.1 | 1.9 | 0.600 |
| 4-1130 | 4-1870 | 1.292 | 125.7 | 18.8 | -1.95 | 1.192 | 162.0 | 0.961 | 1.827 | 206.2 | 548.6 | 0.071 | 3.582 | 8.73 | 0.406 | 19.1 | 332.0 | 1.8 | 0.628 |
| 4-1140 | 4-1360 | 0.811 | 101.7 | 1.7 | -16.18 | 1.296 | 125.7 | 0.819 | 3.481 | 278.9 | 492.5 | 0.629 | --- | 7.75 | 0.702 | 143.5 | 323.1 | 5.2 | 0.624 |
| 4-1140 | 4-1380 | 0.747 | 101.3 | 1.5 | -15.10 | 1.259 | 123.5 | 0.751 | 2.609 | 279.1 | 497.7 | 0.650 | --- | 6.88 | 0.631 | 138.7 | 324.2 | 5.3 | 0.538 |
| 4-1140 | 4-1400 | 0.697 | 101.0 | 1.3 | -14.23 | 1.231 | 121.8 | 0.699 | 2.212 | 279.4 | 502.9 | 0.667 | --- | 6.23 | 0.574 | 133.6 | 324.7 | 5.6 | 0.466 |
| 4-1140 | 4-1420 | 0.659 | 100.8 | 1.3 | -13.51 | 1.211 | 120.4 | 0.659 | 1.993 | 279.5 | 508.0 | 0.680 | --- | 5.73 | 0.529 | 128.4 | 324.5 | 5.9 | 0.406 |
| 4-1140 | 4-1440 | 0.631 | 100.6 | 1.4 | -12.89 | 1.196 | 119.3 | 0.630 | 1.860 | 279.5 | 513.0 | 0.689 | --- | 5.33 | 0.494 | 123.0 | 323.5 | 6.2 | 0.357 |
| 4-1140 | 4-1460 | 0.610 | 100.6 | 1.6 | -12.35 | 1.185 | 118.6 | 0.608 | 1.774 | 279.4 | 517.9 | 0.695 | --- | 5.03 | 0.466 | 117.7 | 321.5 | 6.5 | 0.318 |
| 4-1140 | 4-1480 | 0.596 | 100.6 | 2.1 | -11.86 | 1.177 | 118.2 | 0.594 | 1.718 | 279.0 | 522.5 | 0.697 | --- | 4.79 | 0.445 | 112.4 | 318.7 | 6.9 | 0.287 |
| 4-1140 | 4-1500 | 0.588 | 100.8 | 2.7 | -11.41 | 1.171 | 118.1 | 0.586 | 1.680 | 278.4 | 526.8 | 0.696 | --- | 4.61 | 0.428 | 107.3 | 315.1 | 7.1 | 0.265 |
| 4-1140 | 4-1520 | 0.585 | 101.2 | 3.4 | -11.00 | 1.168 | 118.2 | 0.582 | 1.656 | 277.6 | 530.9 | 0.692 | --- | 4.47 | 0.416 | 102.2 | 311.0 | 7.3 | 0.251 |
| 4-1140 | 4-1540 | 0.587 | 101.6 | 4.2 | -10.61 | 1.165 | 118.5 | 0.583 | 1.641 | 276.5 | 534.7 | 0.684 | --- | 4.38 | 0.407 | 97.4 | 306.8 | 7.2 | 0.244 |
| 4-1140 | 4-1560 | 0.594 | 102.3 | 5.2 | -10.23 | 1.164 | 119.1 | 0.588 | 1.633 | 275.0 | 538.1 | 0.674 | --- | 4.32 | 0.400 | 92.7 | 303.0 | 7.1 | 0.244 |
| 4-1140 | 4-1580 | 0.604 | 103.1 | 6.2 | -9.87 | 1.163 | 119.9 | 0.595 | 1.630 | 273.3 | 541.3 | 0.659 | 2.601 | 4.29 | 0.395 | 88.1 | 299.9 | 6.8 | 0.250 |
| 4-1140 | 4-1600 | 0.619 | 104.0 | 7.3 | -9.51 | 1.164 | 120.9 | 0.606 | 1.631 | 271.4 | 544.1 | 0.642 | 2.620 | 4.29 | 0.391 | 83.7 | 297.7 | 6.4 | 0.260 |
| 4-1140 | 4-1620 | 0.637 | 105.1 | 8.4 | -9.15 | 1.164 | 122.1 | 0.620 | 1.636 | 269.1 | 546.6 | 0.621 | 2.650 | 4.32 | 0.389 | 79.5 | 296.4 | 6.0 | 0.274 |
| 4-1140 | 4-1640 | 0.659 | 106.4 | 9.5 | -8.78 | 1.166 | 123.4 | 0.636 | 1.643 | 266.6 | 548.8 | 0.598 | 2.688 | 4.39 | 0.388 | 75.3 | 296.1 | 5.7 | 0.290 |
| 4-1140 | 4-1660 | 0.684 | 107.8 | 10.6 | -8.41 | 1.167 | 125.0 | 0.655 | 1.652 | 263.7 | 550.6 | 0.571 | 2.733 | 4.48 | 0.388 | 71.3 | 296.6 | 5.3 | 0.309 |
| 4-1140 | 4-1680 | 0.714 | 109.3 | 11.6 | -8.02 | 1.169 | 126.8 | 0.675 | 1.663 | 260.7 | 552.2 | 0.541 | 2.785 | 4.61 | 0.388 | 67.3 | 297.8 | 5.0 | 0.329 |
| 4-1140 | 4-1700 | 0.746 | 111.0 | 12.6 | -7.61 | 1.171 | 128.8 | 0.697 | 1.676 | 257.3 | 553.4 | 0.507 | 2.844 | 4.77 | 0.388 | 63.3 | 299.6 | 4.7 | 0.351 |
| 4-1140 | 4-1720 | 0.783 | 112.8 | 13.6 | -7.17 | 1.173 | 130.9 | 0.721 | 1.689 | 253.7 | 554.4 | 0.471 | 2.907 | 4.98 | 0.389 | 59.3 | 301.9 | 4.5 | 0.374 |
| 4-1140 | 4-1740 | 0.822 | 114.7 | 14.4 | -6.69 | 1.175 | 133.3 | 0.746 | 1.704 | 249.9 | 555.0 | 0.433 | 2.976 | 5.24 | 0.391 | 55.4 | 304.7 | 4.2 | 0.397 |
| 4-1140 | 4-1760 | 0.865 | 116.8 | 15.2 | -6.17 | 1.177 | 135.9 | 0.772 | 1.721 | 245.8 | 555.3 | 0.392 | 3.049 | 5.56 | 0.392 | 51.4 | 307.8 | 4.0 | 0.422 |
| 4-1140 | 4-1780 | 0.911 | 118.9 | 15.9 | -5.58 | 1.180 | 138.6 | 0.799 | 1.738 | 241.5 | 555.4 | 0.350 | 3.126 | 5.95 | 0.394 | 47.3 | 311.2 | 3.9 | 0.447 |
| 4-1140 | 4-1800 | 0.961 | 121.2 | 16.5 | -4.90 | 1.182 | 141.5 | 0.826 | 1.756 | 236.9 | 555.2 | 0.306 | 3.206 | 6.44 | 0.396 | 43.2 | 315.0 | 3.7 | 0.473 |
| 4-1140 | 4-1820 | 1.013 | 123.5 | 17.0 | -4.11 | 1.185 | 144.7 | 0.852 | 1.775 | 232.2 | 554.7 | 0.262 | 3.288 | 7.05 | 0.399 | 39.1 | 319.0 | 3.5 | 0.499 |
| 4-1140 | 4-1840 | 1.067 | 125.9 | 17.4 | -3.16 | 1.187 | 148.0 | 0.878 | 1.795 | 227.2 | 553.9 | 0.218 | 3.371 | 7.82 | 0.402 | 34.9 | 323.2 | 3.4 | 0.526 |
| 4-1140 | 4-1860 | 1.124 | 128.4 | 17.7 | -1.99 | 1.190 | 151.4 | 0.903 | 1.815 | 222.0 | 552.9 | 0.176 | 3.454 | 8.82 | 0.405 | 30.7 | 327.6 | 3.3 | 0.553 |
| 4-1140 | 4-1880 | 1.183 | 131.0 | 17.9 | -0.49 | 1.193 | 155.0 | 0.926 | 1.837 | 216.7 | 551.6 | 0.136 | 3.537 | 10.16 | 0.408 | 26.5 | 332.1 | 3.2 | 0.580 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1150 | 4-1370 | 0.812 | 109.3 | -5.7 | -20.42 | 1.300 | 123.7 | 0.815 | 3.606 | 283.4 | 490.4 | 0.665 | --- | 12.91 | 0.710 | 142.8 | 325.9 | 8.8 | 0.626 |
| 4-1150 | 4-1390 | 0.740 | 108.5 | -5.1 | -18.31 | 1.263 | 121.6 | 0.744 | 2.681 | 283.8 | 495.7 | 0.686 | --- | 11.08 | 0.639 | 138.0 | 327.2 | 8.8 | 0.539 |
| 4-1150 | 4-1410 | 0.685 | 107.9 | -4.5 | -16.71 | 1.235 | 119.8 | 0.690 | 2.265 | 284.1 | 501.0 | 0.703 | --- | 9.76 | 0.583 | 133.1 | 327.9 | 8.9 | 0.467 |
| 4-1150 | 4-1430 | 0.643 | 107.5 | -4.0 | -15.44 | 1.215 | 118.4 | 0.648 | 2.036 | 284.4 | 506.2 | 0.716 | --- | 8.77 | 0.539 | 128.0 | 327.9 | 9.2 | 0.407 |
| 4-1150 | 4-1450 | 0.611 | 107.2 | -3.4 | -14.40 | 1.200 | 117.4 | 0.617 | 1.897 | 284.5 | 511.3 | 0.726 | --- | 8.02 | 0.504 | 122.9 | 327.1 | 9.5 | 0.357 |
| 4-1150 | 4-1470 | 0.587 | 107.0 | -2.7 | -13.51 | 1.189 | 116.6 | 0.595 | 1.808 | 284.5 | 516.2 | 0.732 | --- | 7.44 | 0.477 | 117.8 | 325.4 | 9.9 | 0.317 |
| 4-1150 | 4-1490 | 0.570 | 106.9 | -1.8 | -12.74 | 1.182 | 116.2 | 0.579 | 1.749 | 284.3 | 520.8 | 0.735 | --- | 6.99 | 0.456 | 112.8 | 322.9 | 10.3 | 0.286 |
| 4-1150 | 4-1510 | 0.560 | 107.0 | -0.9 | -12.05 | 1.176 | 116.0 | 0.570 | 1.709 | 283.8 | 525.3 | 0.735 | --- | 6.64 | 0.439 | 107.9 | 319.5 | 10.6 | 0.263 |
| 4-1150 | 4-1530 | 0.554 | 107.3 | 0.2 | -11.43 | 1.172 | 116.0 | 0.565 | 1.683 | 283.0 | 529.4 | 0.732 | --- | 6.36 | 0.426 | 103.1 | 315.6 | 10.7 | 0.247 |
| 4-1150 | 4-1550 | 0.553 | 107.8 | 1.4 | -10.86 | 1.170 | 116.3 | 0.565 | 1.667 | 282.0 | 533.3 | 0.726 | --- | 6.16 | 0.417 | 98.5 | 311.5 | 10.7 | 0.239 |
| 4-1150 | 4-1570 | 0.557 | 108.4 | 2.6 | -10.32 | 1.168 | 116.8 | 0.568 | 1.658 | 280.7 | 536.9 | 0.717 | --- | 6.01 | 0.410 | 94.1 | 307.6 | 10.4 | 0.237 |
| 4-1150 | 4-1590 | 0.564 | 109.2 | 3.9 | -9.81 | 1.168 | 117.4 | 0.574 | 1.655 | 279.2 | 540.1 | 0.705 | 2.605 | 5.90 | 0.404 | 89.9 | 304.4 | 10.0 | 0.240 |
| 4-1150 | 4-1610 | 0.576 | 110.1 | 5.2 | -9.32 | 1.168 | 118.3 | 0.583 | 1.655 | 277.3 | 543.0 | 0.690 | 2.621 | 5.85 | 0.401 | 85.8 | 302.0 | 9.4 | 0.248 |
| 4-1150 | 4-1630 | 0.591 | 111.2 | 6.5 | -8.83 | 1.168 | 119.3 | 0.595 | 1.659 | 275.2 | 545.7 | 0.672 | 2.647 | 5.83 | 0.398 | 81.8 | 300.5 | 8.9 | 0.260 |
| 4-1150 | 4-1650 | 0.609 | 112.5 | 7.8 | -8.35 | 1.169 | 120.6 | 0.609 | 1.666 | 272.9 | 548.0 | 0.651 | 2.680 | 5.85 | 0.396 | 77.9 | 299.9 | 8.3 | 0.274 |
| 4-1150 | 4-1670 | 0.631 | 113.9 | 9.0 | -7.87 | 1.171 | 122.0 | 0.626 | 1.674 | 270.2 | 550.0 | 0.627 | 2.722 | 5.92 | 0.395 | 74.2 | 300.1 | 7.8 | 0.290 |
| 4-1150 | 4-1690 | 0.656 | 115.4 | 10.2 | -7.38 | 1.172 | 123.5 | 0.644 | 1.685 | 267.4 | 551.8 | 0.600 | 2.769 | 6.02 | 0.395 | 70.5 | 301.0 | 7.3 | 0.308 |
| 4-1150 | 4-1710 | 0.685 | 117.0 | 11.3 | -6.87 | 1.174 | 125.3 | 0.664 | 1.697 | 264.3 | 553.2 | 0.571 | 2.823 | 6.16 | 0.395 | 66.8 | 302.5 | 6.8 | 0.327 |
| 4-1150 | 4-1730 | 0.717 | 118.8 | 12.3 | -6.34 | 1.176 | 127.2 | 0.685 | 1.710 | 261.0 | 554.4 | 0.538 | 2.881 | 6.35 | 0.396 | 63.2 | 304.6 | 6.5 | 0.348 |
| 4-1150 | 4-1750 | 0.752 | 120.7 | 13.3 | -5.79 | 1.178 | 129.3 | 0.708 | 1.724 | 257.4 | 555.3 | 0.503 | 2.945 | 6.60 | 0.397 | 59.5 | 307.0 | 6.1 | 0.369 |
| 4-1150 | 4-1770 | 0.790 | 122.7 | 14.1 | -5.19 | 1.180 | 131.5 | 0.732 | 1.739 | 253.6 | 555.9 | 0.466 | 3.013 | 6.90 | 0.398 | 55.9 | 309.9 | 5.8 | 0.391 |
| 4-1150 | 4-1790 | 0.831 | 124.7 | 14.8 | -4.53 | 1.182 | 133.9 | 0.757 | 1.756 | 249.7 | 556.2 | 0.426 | 3.085 | 7.27 | 0.399 | 52.2 | 313.1 | 5.5 | 0.413 |
| 4-1150 | 4-1810 | 0.875 | 126.9 | 15.5 | -3.81 | 1.185 | 136.5 | 0.783 | 1.773 | 245.5 | 556.3 | 0.385 | 3.161 | 7.72 | 0.401 | 48.5 | 316.6 | 5.3 | 0.437 |
| 4-1150 | 4-1830 | 0.922 | 129.1 | 16.0 | -3.00 | 1.187 | 139.3 | 0.809 | 1.791 | 241.1 | 556.2 | 0.342 | 3.240 | 8.27 | 0.403 | 44.7 | 320.3 | 5.1 | 0.461 |
| 4-1150 | 4-1850 | 0.972 | 131.5 | 16.4 | -2.07 | 1.190 | 142.3 | 0.835 | 1.809 | 236.5 | 555.7 | 0.298 | 3.320 | 8.95 | 0.405 | 40.9 | 324.2 | 4.9 | 0.485 |
| 4-1150 | 4-1870 | 1.024 | 133.8 | 16.7 | -0.98 | 1.192 | 145.4 | 0.861 | 1.829 | 231.7 | 555.1 | 0.255 | 3.403 | 9.80 | 0.407 | 37.1 | 328.4 | 4.7 | 0.510 |
| 4-1150 | 4-1890 | 1.079 | 136.3 | 16.9 | 0.32 | 1.195 | 148.6 | 0.885 | 1.849 | 226.8 | 554.2 | 0.212 | 3.486 | 10.88 | 0.410 | 33.2 | 332.7 | 4.5 | 0.535 |
| 4-1160 | 4-1380 | 0.850 | 117.6 | -16.6 | -27.40 | 1.304 | 121.7 | 0.811 | 3.705 | 287.8 | 488.5 | 0.700 | --- | 20.84 | 0.715 | 142.0 | 327.6 | 14.2 | 0.638 |
| 4-1160 | 4-1400 | 0.757 | 115.9 | -14.4 | -23.26 | 1.267 | 119.6 | 0.737 | 2.742 | 288.4 | 493.8 | 0.721 | --- | 17.03 | 0.646 | 137.4 | 329.4 | 13.6 | 0.547 |
| 4-1160 | 4-1420 | 0.689 | 114.7 | -12.7 | -20.35 | 1.240 | 117.8 | 0.681 | 2.311 | 289.0 | 499.2 | 0.738 | --- | 14.46 | 0.591 | 132.5 | 330.5 | 13.3 | 0.472 |
| 4-1160 | 4-1440 | 0.638 | 113.9 | -11.2 | -18.18 | 1.220 | 116.4 | 0.638 | 2.074 | 289.4 | 504.5 | 0.751 | --- | 12.63 | 0.547 | 127.6 | 330.8 | 13.3 | 0.411 |
| 4-1160 | 4-1460 | 0.599 | 113.3 | -9.8 | -16.49 | 1.205 | 115.4 | 0.606 | 1.931 | 289.7 | 509.6 | 0.761 | --- | 11.28 | 0.513 | 122.7 | 330.3 | 13.6 | 0.360 |
| 4-1160 | 4-1480 | 0.570 | 112.9 | -8.4 | -15.11 | 1.194 | 114.6 | 0.582 | 1.839 | 289.7 | 514.6 | 0.768 | --- | 10.26 | 0.486 | 117.8 | 328.9 | 13.9 | 0.320 |
| 4-1160 | 4-1500 | 0.549 | 112.7 | -6.9 | -13.95 | 1.186 | 114.1 | 0.566 | 1.778 | 289.6 | 519.4 | 0.772 | --- | 9.47 | 0.465 | 113.0 | 326.6 | 14.2 | 0.287 |
| 4-1160 | 4-1520 | 0.535 | 112.8 | -5.4 | -12.95 | 1.181 | 113.9 | 0.555 | 1.737 | 289.2 | 523.9 | 0.772 | --- | 8.86 | 0.448 | 108.3 | 323.5 | 14.4 | 0.263 |
| 4-1160 | 4-1540 | 0.526 | 113.0 | -3.9 | -12.07 | 1.177 | 113.9 | 0.550 | 1.710 | 288.6 | 528.1 | 0.770 | --- | 8.38 | 0.436 | 103.8 | 319.8 | 14.5 | 0.246 |
| 4-1160 | 4-1560 | 0.522 | 113.4 | -2.3 | -11.28 | 1.174 | 114.1 | 0.548 | 1.693 | 287.7 | 532.0 | 0.765 | --- | 8.01 | 0.426 | 99.4 | 315.8 | 14.4 | 0.236 |
| 4-1160 | 4-1580 | 0.523 | 114.0 | -0.7 | -10.56 | 1.173 | 114.5 | 0.550 | 1.683 | 286.5 | 535.7 | 0.758 | --- | 7.73 | 0.419 | 95.3 | 312.0 | 14.0 | 0.232 |
| 4-1160 | 4-1600 | 0.527 | 114.9 | 1.0 | -9.89 | 1.172 | 115.1 | 0.555 | 1.679 | 285.1 | 539.0 | 0.747 | --- | 7.51 | 0.413 | 91.3 | 308.7 | 13.4 | 0.234 |
| 4-1160 | 4-1620 | 0.536 | 115.8 | 2.6 | -9.25 | 1.172 | 115.8 | 0.563 | 1.679 | 283.4 | 542.0 | 0.734 | 2.624 | 7.36 | 0.409 | 87.4 | 306.1 | 12.6 | 0.239 |
| 4-1160 | 4-1640 | 0.548 | 117.0 | 4.2 | -8.64 | 1.173 | 116.8 | 0.573 | 1.682 | 281.4 | 544.8 | 0.719 | 2.646 | 7.27 | 0.406 | 83.7 | 304.4 | 11.8 | 0.249 |
| 4-1160 | 4-1660 | 0.563 | 118.3 | 5.7 | -8.05 | 1.174 | 117.9 | 0.585 | 1.688 | 279.2 | 547.2 | 0.700 | 2.676 | 7.22 | 0.404 | 80.1 | 303.6 | 11.1 | 0.261 |
| 4-1160 | 4-1680 | 0.581 | 119.7 | 7.1 | -7.46 | 1.175 | 119.1 | 0.599 | 1.697 | 276.7 | 549.3 | 0.680 | 2.714 | 7.22 | 0.403 | 76.6 | 303.6 | 10.3 | 0.275 |
| 4-1160 | 4-1700 | 0.603 | 121.3 | 8.5 | -6.88 | 1.176 | 120.5 | 0.616 | 1.707 | 274.1 | 551.2 | 0.656 | 2.757 | 7.27 | 0.402 | 73.2 | 304.2 | 9.7 | 0.291 |
| 4-1160 | 4-1720 | 0.628 | 122.9 | 9.7 | -6.29 | 1.178 | 122.0 | 0.633 | 1.718 | 271.2 | 552.8 | 0.630 | 2.806 | 7.37 | 0.402 | 69.8 | 305.5 | 9.0 | 0.307 |
| 4-1160 | 4-1740 | 0.656 | 124.7 | 10.9 | -5.69 | 1.180 | 123.7 | 0.653 | 1.731 | 268.1 | 554.2 | 0.601 | 2.860 | 7.51 | 0.402 | 66.4 | 307.3 | 8.5 | 0.325 |
| 4-1160 | 4-1760 | 0.687 | 126.6 | 11.9 | -5.07 | 1.182 | 125.6 | 0.674 | 1.744 | 264.8 | 555.3 | 0.569 | 2.919 | 7.71 | 0.402 | 63.1 | 309.6 | 8.0 | 0.344 |
| 4-1160 | 4-1780 | 0.721 | 128.5 | 12.8 | -4.43 | 1.184 | 127.6 | 0.696 | 1.759 | 261.3 | 556.1 | 0.536 | 2.983 | 7.96 | 0.403 | 59.8 | 312.2 | 7.6 | 0.364 |
| 4-1160 | 4-1800 | 0.757 | 130.6 | 13.6 | -3.74 | 1.186 | 129.7 | 0.719 | 1.775 | 257.6 | 556.7 | 0.499 | 3.050 | 8.27 | 0.404 | 56.4 | 315.2 | 7.2 | 0.384 |
| 4-1160 | 4-1820 | 0.797 | 132.7 | 14.2 | -3.00 | 1.188 | 132.0 | 0.743 | 1.791 | 253.7 | 557.1 | 0.461 | 3.121 | 8.66 | 0.405 | 53.0 | 318.4 | 6.9 | 0.405 |
| 4-1160 | 4-1840 | 0.839 | 134.8 | 14.8 | -2.19 | 1.190 | 134.5 | 0.767 | 1.808 | 249.6 | 557.2 | 0.421 | 3.195 | 9.13 | 0.407 | 49.6 | 321.9 | 6.6 | 0.426 |
| 4-1160 | 4-1860 | 0.884 | 137.1 | 15.2 | -1.30 | 1.192 | 137.1 | 0.792 | 1.826 | 245.4 | 557.1 | 0.380 | 3.272 | 9.70 | 0.409 | 46.2 | 325.6 | 6.4 | 0.448 |
| 4-1160 | 4-1880 | 0.932 | 139.4 | 15.5 | -0.30 | 1.195 | 139.8 | 0.817 | 1.844 | 240.9 | 556.8 | 0.337 | 3.352 | 10.39 | 0.410 | 42.6 | 329.4 | 6.1 | 0.471 |
| 4-1160 | 4-1900 | 0.982 | 141.7 | 15.7 | 0.85 | 1.197 | 142.7 | 0.842 | 1.863 | 236.4 | 556.3 | 0.294 | 3.433 | 11.24 | 0.413 | 39.1 | 333.5 | 5.9 | 0.494 |
| 4-1170 | 4-1410 | 0.827 | 124.6 | -27.4 | -31.59 | 1.270 | 117.8 | 0.730 | 2.788 | 293.0 | 492.2 | 0.754 | --- | 26.38 | 0.651 | 136.7 | 330.0 | 20.3 | 0.572 |
| 4-1170 | 4-1430 | 0.725 | 121.9 | -23.7 | -26.08 | 1.243 | 115.8 | 0.671 | 2.348 | 293.8 | 497.6 | 0.771 | --- | 21.25 | 0.597 | 131.9 | 332.0 | 19.2 | 0.488 |
| 4-1170 | 4-1450 | 0.654 | 120.2 | -20.7 | -22.29 | 1.224 | 114.4 | 0.627 | 2.107 | 294.4 | 503.0 | 0.785 | --- | 17.84 | 0.554 | 127.1 | 332.9 | 18.7 | 0.422 |
| 4-1170 | 4-1470 | 0.602 | 119.1 | -18.1 | -19.50 | 1.209 | 113.3 | 0.594 | 1.961 | 294.9 | 508.2 | 0.795 | --- | 15.45 | 0.520 | 122.3 | 332.8 | 18.5 | 0.369 |
| 4-1170 | 4-1490 | 0.564 | 118.4 | -15.7 | -17.36 | 1.198 | 112.6 | 0.570 | 1.867 | 295.1 | 513.2 | 0.802 | --- | 13.71 | 0.494 | 117.6 | 331.7 | 18.6 | 0.326 |
| 4-1170 | 4-1510 | 0.536 | 118.1 | -13.5 | -15.63 | 1.191 | 112.1 | 0.553 | 1.804 | 295.1 | 518.0 | 0.806 | --- | 12.40 | 0.473 | 113.0 | 329.8 | 18.7 | 0.292 |
| 4-1170 | 4-1530 | 0.516 | 118.0 | -11.2 | -14.20 | 1.185 | 111.8 | 0.542 | 1.762 | 294.9 | 522.6 | 0.808 | --- | 11.39 | 0.457 | 108.5 | 327.0 | 18.8 | 0.266 |
| 4-1170 | 4-1550 | 0.502 | 118.2 | -9.0 | -12.98 | 1.181 | 111.8 | 0.535 | 1.735 | 294.3 | 526.9 | 0.806 | --- | 10.61 | 0.444 | 104.2 | 323.5 | 18.7 | 0.247 |
| 4-1170 | 4-1570 | 0.495 | 118.6 | -6.9 | -11.92 | 1.179 | 111.9 | 0.533 | 1.717 | 293.5 | 530.9 | 0.802 | --- | 10.00 | 0.434 | 100.1 | 319.7 | 18.4 | 0.236 |
| 4-1170 | 4-1590 | 0.492 | 119.2 | -4.7 | -10.97 | 1.177 | 112.3 | 0.534 | 1.707 | 292.4 | 534.6 | 0.796 | --- | 9.52 | 0.427 | 96.1 | 316.0 | 17.8 | 0.230 |
| 4-1170 | 4-1610 | 0.493 | 120.1 | -2.6 | -10.11 | 1.177 | 112.8 | 0.538 | 1.703 | 291.1 | 538.0 | 0.787 | --- | 9.15 | 0.421 | 92.4 | 312.7 | 16.9 | 0.229 |
| 4-1170 | 4-1630 | 0.498 | 121.1 | -0.6 | -9.31 | 1.177 | 113.5 | 0.544 | 1.702 | 289.5 | 541.1 | 0.776 | 2.628 | 8.87 | 0.417 | 88.7 | 310.0 | 16.0 | 0.233 |
| 4-1170 | 4-1650 | 0.507 | 122.3 | 1.3 | -8.57 | 1.177 | 114.3 | 0.553 | 1.705 | 287.6 | 543.9 | 0.763 | 2.648 | 8.66 | 0.414 | 85.3 | 308.2 | 15.0 | 0.240 |
| 4-1170 | 4-1670 | 0.520 | 123.7 | 3.1 | -7.85 | 1.178 | 115.3 | 0.564 | 1.711 | 285.5 | 546.4 | 0.747 | 2.675 | 8.52 | 0.411 | 81.9 | 307.2 | 13.9 | 0.250 |
| 4-1170 | 4-1690 | 0.535 | 125.2 | 4.8 | -7.17 | 1.179 | 116.4 | 0.576 | 1.719 | 283.2 | 548.6 | 0.728 | 2.709 | 8.44 | 0.410 | 78.6 | 307.0 | 13.0 | 0.262 |
| 4-1170 | 4-1710 | 0.554 | 126.9 | 6.4 | -6.50 | 1.180 | 117.6 | 0.591 | 1.728 | 280.7 | 550.6 | 0.708 | 2.749 | 8.41 | 0.409 | 75.4 | 307.5 | 12.1 | 0.276 |
| 4-1170 | 4-1730 | 0.575 | 128.6 | 7.9 | -5.84 | 1.182 | 119.0 | 0.606 | 1.739 | 278.0 | 552.4 | 0.685 | 2.794 | 8.43 | 0.408 | 72.3 | 308.6 | 11.3 | 0.291 |
| 4-1170 | 4-1750 | 0.600 | 130.4 | 9.1 | -5.17 | 1.184 | 120.5 | 0.624 | 1.752 | 275.1 | 553.9 | 0.659 | 2.844 | 8.51 | 0.408 | 69.2 | 310.2 | 10.6 | 0.307 |
| 4-1170 | 4-1770 | 0.627 | 132.3 | 10.3 | -4.50 | 1.185 | 122.1 | 0.642 | 1.765 | 272.0 | 555.2 | 0.631 | 2.899 | 8.64 | 0.408 | 66.2 | 312.2 | 10.0 | 0.323 |
| 4-1170 | 4-1790 | 0.657 | 134.3 | 11.3 | -3.82 | 1.187 | 123.9 | 0.662 | 1.779 | 268.7 | 556.2 | 0.601 | 2.958 | 8.82 | 0.408 | 63.1 | 314.7 | 9.4 | 0.341 |
| 4-1170 | 4-1810 | 0.690 | 136.3 | 12.1 | -3.10 | 1.189 | 125.8 | 0.683 | 1.794 | 265.2 | 557.0 | 0.568 | 3.020 | 9.06 | 0.409 | 60.0 | 317.4 | 9.0 | 0.359 |
| 4-1170 | 4-1830 | 0.725 | 138.4 | 12.9 | -2.36 | 1.191 | 127.9 | 0.705 | 1.810 | 261.6 | 557.6 | 0.534 | 3.086 | 9.36 | 0.410 | 57.0 | 320.4 | 8.5 | 0.377 |
| 4-1170 | 4-1850 | 0.763 | 140.6 | 13.4 | -1.56 | 1.193 | 130.0 | 0.728 | 1.827 | 257.8 | 558.0 | 0.497 | 3.156 | 9.74 | 0.411 | 53.9 | 323.7 | 8.1 | 0.396 |
| 4-1170 | 4-1870 | 0.804 | 142.7 | 13.9 | -0.71 | 1.196 | 132.4 | 0.751 | 1.844 | 253.9 | 558.2 | 0.459 | 3.229 | 10.19 | 0.413 | 50.7 | 327.1 | 7.8 | 0.416 |
| 4-1170 | 4-1890 | 0.847 | 145.0 | 14.2 | 0.22 | 1.198 | 134.8 | 0.775 | 1.861 | 249.8 | 558.1 | 0.418 | 3.304 | 10.74 | 0.414 | 47.5 | 330.8 | 7.5 | 0.436 |
| 4-1170 | 4-1910 | 0.892 | 147.2 | 14.4 | 1.25 | 1.200 | 137.4 | 0.799 | 1.879 | 245.5 | 557.9 | 0.377 | 3.381 | 11.41 | 0.416 | 44.3 | 334.6 | 7.2 | 0.457 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1180 | 4-1420 | 1.023 | 139.2 | -43.8 | -47.20 | 1.273 | 115.8 | 0.722 | 2.816 | 297.2 | 491.0 | 0.782 | --- | 43.05 | 0.653 | 136.0 | 326.1 | 28.6 | 0.646 |
| 4-1180 | 4-1440 | 0.834 | 131.3 | -38.2 | -35.97 | 1.247 | 113.9 | 0.662 | 2.375 | 298.5 | 496.3 | 0.802 | --- | 32.23 | 0.601 | 131.3 | 330.9 | 26.9 | 0.532 |
| 4-1180 | 4-1460 | 0.714 | 127.2 | -33.3 | -28.90 | 1.227 | 112.4 | 0.617 | 2.133 | 299.5 | 501.7 | 0.817 | --- | 25.58 | 0.559 | 126.6 | 333.3 | 25.5 | 0.450 |
| 4-1180 | 4-1480 | 0.632 | 124.8 | -29.0 | -24.12 | 1.213 | 111.3 | 0.583 | 1.986 | 300.2 | 507.0 | 0.827 | --- | 21.22 | 0.526 | 121.9 | 334.1 | 24.6 | 0.388 |
| 4-1180 | 4-1500 | 0.575 | 123.5 | -25.2 | -20.67 | 1.203 | 110.5 | 0.559 | 1.891 | 300.6 | 512.1 | 0.835 | --- | 18.21 | 0.500 | 117.3 | 333.7 | 24.1 | 0.339 |
| 4-1180 | 4-1520 | 0.535 | 122.8 | -21.8 | -18.05 | 1.195 | 110.0 | 0.541 | 1.828 | 300.8 | 516.9 | 0.839 | --- | 16.03 | 0.479 | 112.9 | 332.2 | 23.8 | 0.302 |
| 4-1180 | 4-1540 | 0.506 | 122.5 | -18.5 | -15.98 | 1.190 | 109.7 | 0.529 | 1.786 | 300.7 | 521.5 | 0.841 | --- | 14.40 | 0.463 | 108.6 | 329.8 | 23.6 | 0.273 |
| 4-1180 | 4-1560 | 0.485 | 122.6 | -15.5 | -14.28 | 1.186 | 109.7 | 0.522 | 1.758 | 300.2 | 525.9 | 0.840 | --- | 13.17 | 0.451 | 104.5 | 326.7 | 23.2 | 0.252 |
| 4-1180 | 4-1580 | 0.472 | 123.0 | -12.5 | -12.85 | 1.183 | 109.8 | 0.519 | 1.740 | 299.5 | 529.9 | 0.837 | --- | 12.20 | 0.441 | 100.5 | 323.2 | 22.6 | 0.239 |
| 4-1180 | 4-1600 | 0.464 | 123.7 | -9.7 | -11.61 | 1.182 | 110.1 | 0.519 | 1.730 | 298.5 | 533.6 | 0.832 | --- | 11.45 | 0.434 | 96.8 | 319.6 | 21.8 | 0.231 |
| 4-1180 | 4-1620 | 0.462 | 124.7 | -7.0 | -10.51 | 1.181 | 110.5 | 0.522 | 1.725 | 297.3 | 537.1 | 0.824 | --- | 10.86 | 0.428 | 93.2 | 316.4 | 20.7 | 0.228 |
| 4-1180 | 4-1640 | 0.464 | 125.9 | -4.5 | -9.52 | 1.181 | 111.1 | 0.527 | 1.724 | 295.8 | 540.2 | 0.815 | 2.634 | 10.40 | 0.424 | 89.8 | 313.7 | 19.4 | 0.230 |
| 4-1180 | 4-1660 | 0.470 | 127.2 | -2.1 | -8.61 | 1.182 | 111.9 | 0.535 | 1.727 | 294.0 | 543.1 | 0.803 | 2.651 | 10.04 | 0.420 | 86.5 | 311.8 | 18.1 | 0.235 |
| 4-1180 | 4-1680 | 0.479 | 128.7 | 0.2 | -7.77 | 1.182 | 112.7 | 0.544 | 1.733 | 292.0 | 545.6 | 0.789 | 2.676 | 9.77 | 0.418 | 83.3 | 310.7 | 16.9 | 0.243 |
| 4-1180 | 4-1700 | 0.492 | 130.4 | 2.2 | -6.98 | 1.183 | 113.7 | 0.556 | 1.740 | 289.8 | 548.0 | 0.774 | 2.707 | 9.58 | 0.416 | 80.3 | 310.4 | 15.7 | 0.253 |
| 4-1180 | 4-1720 | 0.508 | 132.1 | 4.1 | -6.21 | 1.185 | 114.9 | 0.568 | 1.750 | 287.4 | 550.0 | 0.756 | 2.744 | 9.45 | 0.415 | 77.3 | 310.7 | 14.6 | 0.264 |
| 4-1180 | 4-1740 | 0.526 | 134.0 | 5.7 | -5.48 | 1.186 | 116.1 | 0.582 | 1.761 | 284.8 | 551.9 | 0.735 | 2.786 | 9.38 | 0.414 | 74.4 | 311.6 | 13.6 | 0.277 |
| 4-1180 | 4-1760 | 0.548 | 135.9 | 7.2 | -4.75 | 1.188 | 117.5 | 0.598 | 1.773 | 282.1 | 553.5 | 0.713 | 2.833 | 9.37 | 0.414 | 71.6 | 313.1 | 12.7 | 0.291 |
| 4-1180 | 4-1780 | 0.572 | 137.9 | 8.5 | -4.03 | 1.190 | 118.9 | 0.615 | 1.786 | 279.1 | 554.9 | 0.688 | 2.883 | 9.42 | 0.413 | 68.7 | 314.9 | 11.9 | 0.306 |
| 4-1180 | 4-1800 | 0.598 | 139.9 | 9.6 | -3.31 | 1.191 | 120.5 | 0.632 | 1.800 | 276.0 | 556.1 | 0.662 | 2.938 | 9.52 | 0.414 | 65.9 | 317.2 | 11.2 | 0.321 |
| 4-1180 | 4-1820 | 0.628 | 142.0 | 10.6 | -2.58 | 1.193 | 122.2 | 0.651 | 1.814 | 272.8 | 557.1 | 0.633 | 2.996 | 9.67 | 0.414 | 63.1 | 319.7 | 10.6 | 0.337 |
| 4-1180 | 4-1840 | 0.659 | 144.1 | 11.4 | -1.83 | 1.195 | 124.1 | 0.671 | 1.830 | 269.4 | 557.9 | 0.602 | 3.058 | 9.89 | 0.415 | 60.3 | 322.5 | 10.1 | 0.353 |
| 4-1180 | 4-1860 | 0.693 | 146.2 | 12.0 | -1.05 | 1.197 | 126.0 | 0.692 | 1.846 | 265.9 | 558.5 | 0.569 | 3.123 | 10.16 | 0.416 | 57.5 | 325.6 | 9.6 | 0.370 |
| 4-1180 | 4-1880 | 0.730 | 148.4 | 12.5 | -0.23 | 1.199 | 128.1 | 0.713 | 1.862 | 262.2 | 558.9 | 0.534 | 3.190 | 10.50 | 0.417 | 54.6 | 328.9 | 9.2 | 0.388 |
| 4-1180 | 4-1900 | 0.768 | 150.6 | 12.8 | 0.64 | 1.201 | 130.2 | 0.736 | 1.879 | 258.3 | 559.1 | 0.497 | 3.261 | 10.92 | 0.418 | 51.7 | 332.3 | 8.8 | 0.406 |
| 4-1180 | 4-1920 | 0.809 | 152.8 | 13.1 | 1.57 | 1.203 | 132.5 | 0.758 | 1.896 | 254.4 | 559.1 | 0.458 | 3.334 | 11.43 | 0.420 | 48.8 | 336.0 | 8.5 | 0.424 |
| 4-1190 | 4-1450 | 1.100 | 151.0 | -54.7 | -54.82 | 1.249 | 112.2 | 0.655 | 2.392 | 302.6 | 495.4 | 0.826 | --- | 52.18 | 0.603 | 130.7 | 324.1 | 34.0 | 0.645 |
| 4-1190 | 4-1470 | 0.867 | 137.9 | -48.9 | -40.68 | 1.231 | 110.5 | 0.608 | 2.152 | 304.4 | 500.7 | 0.844 | --- | 38.48 | 0.562 | 126.0 | 330.3 | 33.1 | 0.517 |
| 4-1190 | 4-1490 | 0.719 | 131.6 | -42.7 | -31.79 | 1.217 | 109.3 | 0.573 | 2.006 | 305.5 | 506.0 | 0.856 | --- | 30.04 | 0.530 | 121.4 | 333.4 | 31.8 | 0.430 |
| 4-1190 | 4-1510 | 0.622 | 128.5 | -37.2 | -25.89 | 1.207 | 108.4 | 0.548 | 1.911 | 306.3 | 511.1 | 0.865 | --- | 24.58 | 0.505 | 116.9 | 334.3 | 30.6 | 0.368 |
| 4-1190 | 4-1530 | 0.557 | 126.9 | -32.2 | -21.71 | 1.199 | 107.9 | 0.530 | 1.849 | 306.6 | 516.0 | 0.869 | --- | 20.86 | 0.485 | 112.6 | 333.7 | 29.7 | 0.322 |
| 4-1190 | 4-1550 | 0.511 | 126.3 | -27.7 | -18.59 | 1.194 | 107.6 | 0.518 | 1.807 | 306.7 | 520.7 | 0.872 | --- | 18.21 | 0.469 | 108.5 | 331.9 | 28.9 | 0.288 |
| 4-1190 | 4-1570 | 0.479 | 126.2 | -23.5 | -16.16 | 1.190 | 107.5 | 0.510 | 1.779 | 306.4 | 525.0 | 0.872 | --- | 16.25 | 0.457 | 104.5 | 329.3 | 28.1 | 0.263 |
| 4-1190 | 4-1590 | 0.457 | 126.7 | -19.5 | -14.19 | 1.188 | 107.6 | 0.506 | 1.761 | 305.7 | 529.1 | 0.869 | --- | 14.76 | 0.447 | 100.8 | 326.1 | 27.1 | 0.246 |
| 4-1190 | 4-1610 | 0.443 | 127.5 | -15.8 | -12.54 | 1.187 | 107.9 | 0.506 | 1.751 | 304.8 | 532.8 | 0.865 | --- | 13.61 | 0.440 | 97.2 | 322.8 | 25.9 | 0.235 |
| 4-1190 | 4-1630 | 0.435 | 128.5 | -12.3 | -11.14 | 1.186 | 108.3 | 0.508 | 1.746 | 303.7 | 536.3 | 0.859 | --- | 12.71 | 0.434 | 93.8 | 319.7 | 24.5 | 0.230 |
| 4-1190 | 4-1650 | 0.433 | 129.9 | -9.1 | -9.90 | 1.186 | 108.8 | 0.513 | 1.746 | 302.2 | 539.5 | 0.851 | --- | 12.00 | 0.430 | 90.6 | 317.1 | 23.0 | 0.229 |
| 4-1190 | 4-1670 | 0.435 | 131.4 | -6.1 | -8.80 | 1.186 | 109.5 | 0.519 | 1.748 | 300.5 | 542.4 | 0.841 | 2.656 | 11.44 | 0.426 | 87.5 | 315.2 | 21.4 | 0.232 |
| 4-1190 | 4-1690 | 0.441 | 133.1 | -3.3 | -7.81 | 1.187 | 110.3 | 0.527 | 1.754 | 298.6 | 545.0 | 0.829 | 2.679 | 11.01 | 0.424 | 84.5 | 314.0 | 19.8 | 0.238 |
| 4-1190 | 4-1710 | 0.451 | 135.0 | -0.8 | -6.88 | 1.188 | 111.2 | 0.537 | 1.762 | 296.5 | 547.4 | 0.815 | 2.708 | 10.67 | 0.422 | 81.6 | 313.6 | 18.3 | 0.245 |
| 4-1190 | 4-1730 | 0.464 | 136.9 | 1.4 | -6.02 | 1.189 | 112.2 | 0.549 | 1.771 | 294.2 | 549.5 | 0.799 | 2.742 | 10.42 | 0.420 | 78.9 | 313.8 | 17.0 | 0.255 |
| 4-1190 | 4-1750 | 0.480 | 138.9 | 3.4 | -5.20 | 1.191 | 113.3 | 0.561 | 1.782 | 291.7 | 551.4 | 0.782 | 2.781 | 10.24 | 0.419 | 76.1 | 314.6 | 15.8 | 0.266 |
| 4-1190 | 4-1770 | 0.499 | 141.0 | 5.1 | -4.41 | 1.192 | 114.6 | 0.575 | 1.794 | 289.1 | 553.1 | 0.762 | 2.825 | 10.13 | 0.419 | 73.5 | 315.9 | 14.7 | 0.278 |
| 4-1190 | 4-1790 | 0.520 | 143.2 | 6.6 | -3.64 | 1.194 | 115.9 | 0.590 | 1.806 | 286.3 | 554.6 | 0.741 | 2.872 | 10.08 | 0.419 | 70.9 | 317.6 | 13.8 | 0.291 |
| 4-1190 | 4-1810 | 0.544 | 145.3 | 7.9 | -2.89 | 1.196 | 117.3 | 0.606 | 1.820 | 283.4 | 555.9 | 0.717 | 2.923 | 10.08 | 0.419 | 68.3 | 319.7 | 12.9 | 0.304 |
| 4-1190 | 4-1830 | 0.570 | 147.5 | 9.0 | -2.13 | 1.198 | 118.9 | 0.623 | 1.834 | 280.3 | 557.0 | 0.692 | 2.977 | 10.14 | 0.419 | 65.7 | 322.1 | 12.2 | 0.318 |
| 4-1190 | 4-1850 | 0.598 | 149.7 | 9.8 | -1.38 | 1.199 | 120.5 | 0.641 | 1.849 | 277.1 | 558.0 | 0.664 | 3.034 | 10.26 | 0.419 | 63.1 | 324.8 | 11.6 | 0.333 |
| 4-1190 | 4-1870 | 0.629 | 151.8 | 10.5 | -0.61 | 1.201 | 122.3 | 0.660 | 1.865 | 273.7 | 558.7 | 0.635 | 3.095 | 10.43 | 0.420 | 60.6 | 327.6 | 11.0 | 0.347 |
| 4-1190 | 4-1890 | 0.662 | 154.0 | 11.1 | 0.18 | 1.203 | 124.1 | 0.679 | 1.881 | 270.2 | 559.3 | 0.604 | 3.158 | 10.67 | 0.421 | 58.0 | 330.7 | 10.5 | 0.363 |
| 4-1190 | 4-1910 | 0.697 | 156.2 | 11.4 | 1.00 | 1.205 | 126.1 | 0.699 | 1.897 | 266.6 | 559.7 | 0.570 | 3.224 | 10.96 | 0.422 | 55.3 | 334.0 | 10.0 | 0.379 |
| 4-1190 | 4-1930 | 0.734 | 158.4 | 11.7 | 1.87 | 1.207 | 128.1 | 0.720 | 1.914 | 262.9 | 560.0 | 0.535 | 3.293 | 11.33 | 0.423 | 52.7 | 337.5 | 9.6 | 0.395 |
| 4-1200 | 4-1500 | 0.925 | 145.1 | -59.1 | -45.94 | 1.220 | 107.4 | 0.564 | 2.020 | 310.5 | 505.3 | 0.881 | --- | 45.32 | 0.532 | 120.9 | 328.5 | 38.1 | 0.527 |
| 4-1200 | 4-1520 | 0.741 | 135.2 | -52.0 | -34.88 | 1.210 | 106.4 | 0.538 | 1.927 | 311.8 | 510.5 | 0.891 | --- | 34.72 | 0.508 | 116.5 | 332.4 | 37.2 | 0.428 |
| 4-1200 | 4-1540 | 0.623 | 131.0 | -45.2 | -27.65 | 1.203 | 105.8 | 0.519 | 1.866 | 312.6 | 515.4 | 0.897 | --- | 27.96 | 0.489 | 112.3 | 333.6 | 35.9 | 0.361 |
| 4-1200 | 4-1560 | 0.544 | 129.3 | -39.0 | -22.64 | 1.198 | 105.5 | 0.507 | 1.824 | 312.8 | 520.1 | 0.900 | --- | 23.42 | 0.473 | 108.3 | 333.0 | 34.6 | 0.314 |
| 4-1200 | 4-1580 | 0.491 | 128.8 | -33.4 | -18.98 | 1.195 | 105.3 | 0.499 | 1.797 | 312.7 | 524.5 | 0.900 | --- | 20.23 | 0.461 | 104.5 | 331.1 | 33.3 | 0.281 |
| 4-1200 | 4-1600 | 0.454 | 129.2 | -28.1 | -16.17 | 1.192 | 105.4 | 0.495 | 1.780 | 312.2 | 528.5 | 0.899 | --- | 17.90 | 0.452 | 100.8 | 328.5 | 31.9 | 0.258 |
| 4-1200 | 4-1620 | 0.430 | 130.1 | -23.3 | -13.93 | 1.191 | 105.6 | 0.494 | 1.770 | 311.4 | 532.3 | 0.895 | --- | 16.15 | 0.445 | 97.4 | 325.5 | 30.3 | 0.243 |
| 4-1200 | 4-1640 | 0.415 | 131.4 | -18.8 | -12.08 | 1.191 | 106.0 | 0.496 | 1.766 | 310.3 | 535.7 | 0.890 | --- | 14.80 | 0.439 | 94.2 | 322.6 | 28.5 | 0.235 |
| 4-1200 | 4-1660 | 0.406 | 133.0 | -14.6 | -10.52 | 1.191 | 106.5 | 0.500 | 1.765 | 308.9 | 538.9 | 0.883 | --- | 13.75 | 0.435 | 91.1 | 320.1 | 26.6 | 0.231 |
| 4-1200 | 4-1680 | 0.404 | 134.8 | -10.8 | -9.17 | 1.191 | 107.1 | 0.505 | 1.768 | 307.3 | 541.8 | 0.875 | 2.662 | 12.92 | 0.431 | 88.2 | 318.3 | 24.6 | 0.231 |
| 4-1200 | 4-1700 | 0.406 | 136.8 | -7.3 | -7.97 | 1.192 | 107.9 | 0.513 | 1.774 | 305.4 | 544.4 | 0.865 | 2.684 | 12.26 | 0.429 | 85.4 | 317.1 | 22.8 | 0.235 |
| 4-1200 | 4-1720 | 0.413 | 138.9 | -4.2 | -6.89 | 1.193 | 108.7 | 0.521 | 1.782 | 303.4 | 546.8 | 0.853 | 2.711 | 11.74 | 0.427 | 82.7 | 316.6 | 21.0 | 0.241 |
| 4-1200 | 4-1740 | 0.423 | 141.1 | -1.5 | -5.91 | 1.194 | 109.6 | 0.531 | 1.791 | 301.1 | 549.0 | 0.839 | 2.743 | 11.34 | 0.425 | 80.1 | 316.7 | 19.4 | 0.248 |
| 4-1200 | 4-1760 | 0.436 | 143.4 | 0.9 | -4.99 | 1.195 | 110.7 | 0.543 | 1.802 | 298.8 | 551.0 | 0.824 | 2.780 | 11.02 | 0.424 | 77.5 | 317.4 | 17.9 | 0.257 |
| 4-1200 | 4-1780 | 0.453 | 145.7 | 2.9 | -4.13 | 1.197 | 111.8 | 0.555 | 1.814 | 296.2 | 552.7 | 0.807 | 2.820 | 10.79 | 0.424 | 75.1 | 318.6 | 16.7 | 0.267 |
| 4-1200 | 4-1800 | 0.471 | 148.1 | 4.7 | -3.31 | 1.198 | 113.0 | 0.568 | 1.827 | 293.5 | 554.3 | 0.789 | 2.864 | 10.63 | 0.423 | 72.6 | 320.2 | 15.5 | 0.278 |
| 4-1200 | 4-1820 | 0.493 | 150.4 | 6.1 | -2.51 | 1.200 | 114.3 | 0.582 | 1.840 | 290.7 | 555.7 | 0.768 | 2.912 | 10.53 | 0.423 | 70.3 | 322.2 | 14.5 | 0.290 |
| 4-1200 | 4-1840 | 0.516 | 152.7 | 7.3 | -1.74 | 1.202 | 115.7 | 0.598 | 1.854 | 287.7 | 556.9 | 0.746 | 2.963 | 10.49 | 0.423 | 67.9 | 324.4 | 13.7 | 0.302 |
| 4-1200 | 4-1860 | 0.542 | 155.0 | 8.3 | -0.97 | 1.204 | 117.2 | 0.614 | 1.869 | 284.7 | 558.0 | 0.722 | 3.016 | 10.51 | 0.424 | 65.5 | 327.0 | 12.9 | 0.315 |
| 4-1200 | 4-1880 | 0.569 | 157.3 | 9.1 | -0.21 | 1.205 | 118.8 | 0.631 | 1.884 | 281.5 | 558.9 | 0.696 | 3.073 | 10.58 | 0.424 | 63.2 | 329.7 | 12.2 | 0.328 |
| 4-1200 | 4-1900 | 0.599 | 159.5 | 9.7 | 0.56 | 1.207 | 120.4 | 0.648 | 1.900 | 278.2 | 559.6 | 0.668 | 3.132 | 10.70 | 0.425 | 60.8 | 332.7 | 11.6 | 0.341 |
| 4-1200 | 4-1920 | 0.631 | 161.7 | 10.1 | 1.34 | 1.209 | 122.2 | 0.667 | 1.916 | 274.8 | 560.2 | 0.639 | 3.194 | 10.89 | 0.426 | 58.4 | 335.8 | 11.1 | 0.355 |
| 4-1200 | 4-1940 | 0.664 | 163.9 | 10.4 | 2.15 | 1.211 | 124.0 | 0.686 | 1.932 | 271.3 | 560.6 | 0.607 | 3.258 | 11.13 | 0.427 | 56.0 | 339.1 | 10.6 | 0.370 |
| 4-1210 | 4-1430 | 0.755 | 203.0 | 59.6 | 31.63 | 1.309 | 106.9 | 0.749 | 3.614 | 320.3 | 480.5 | 0.906 | --- | -32.97 | 0.711 | 136.2 | 337.8 | -25.5 | 0.623 |
| 4-1210 | 4-1450 | 0.880 | 227.7 | 57.3 | 41.65 | 1.277 | 104.9 | 0.669 | 2.782 | 322.4 | 486.6 | 0.922 | --- | -42.52 | 0.650 | 131.8 | 333.3 | -32.4 | 0.611 |
| 4-1210 | 4-1530 | 1.010 | 154.2 | -68.9 | -52.15 | 1.214 | 104.7 | 0.530 | 1.938 | 316.8 | 510.1 | 0.911 | --- | 53.13 | 0.510 | 116.0 | 326.2 | 41.1 | 0.558 |
| 4-1210 | 4-1550 | 0.781 | 137.5 | -60.9 | -38.38 | 1.207 | 103.8 | 0.510 | 1.878 | 318.4 | 515.1 | 0.920 | --- | 39.82 | 0.491 | 111.8 | 330.8 | 41.4 | 0.442 |
| 4-1210 | 4-1570 | 0.633 | 131.9 | -52.9 | -29.52 | 1.202 | 103.3 | 0.497 | 1.839 | 319.1 | 519.8 | 0.924 | --- | 31.42 | 0.476 | 107.9 | 332.4 | 40.3 | 0.366 |
| 4-1210 | 4-1590 | 0.538 | 130.2 | -45.5 | -23.53 | 1.199 | 103.1 | 0.490 | 1.813 | 319.2 | 524.1 | 0.925 | --- | 25.89 | 0.465 | 104.2 | 331.9 | 38.7 | 0.315 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1210 | 4-1610 | 0.474 | 130.3 | -38.7 | -19.25 | 1.197 | 103.2 | 0.485 | 1.796 | 318.9 | 528.2 | 0.925 | --- | 22.08 | 0.456 | 100.7 | 330.1 | 36.8 | 0.281 |
| 4-1210 | 4-1630 | 0.432 | 131.3 | -32.4 | -16.03 | 1.196 | 103.4 | 0.484 | 1.787 | 318.1 | 531.9 | 0.922 | --- | 19.34 | 0.449 | 97.5 | 327.7 | 34.8 | 0.259 |
| 4-1210 | 4-1650 | 0.404 | 132.8 | -26.6 | -13.52 | 1.195 | 103.7 | 0.485 | 1.783 | 317.1 | 535.4 | 0.918 | --- | 17.30 | 0.443 | 94.4 | 325.1 | 32.5 | 0.244 |
| 4-1210 | 4-1670 | 0.387 | 134.8 | -21.3 | -11.47 | 1.195 | 104.2 | 0.489 | 1.783 | 315.8 | 538.5 | 0.912 | --- | 15.74 | 0.439 | 91.4 | 322.8 | 30.2 | 0.237 |
| 4-1210 | 4-1690 | 0.378 | 137.0 | -16.4 | -9.77 | 1.196 | 104.7 | 0.493 | 1.787 | 314.2 | 541.4 | 0.905 | 2.669 | 14.53 | 0.436 | 88.6 | 321.1 | 27.9 | 0.234 |
| 4-1210 | 4-1710 | 0.375 | 139.4 | -12.0 | -8.30 | 1.196 | 105.4 | 0.500 | 1.793 | 312.4 | 544.0 | 0.897 | 2.689 | 13.58 | 0.433 | 86.0 | 319.9 | 25.7 | 0.234 |
| 4-1210 | 4-1730 | 0.378 | 142.0 | -8.1 | -7.03 | 1.197 | 106.2 | 0.508 | 1.801 | 310.4 | 546.4 | 0.887 | 2.715 | 12.82 | 0.431 | 83.5 | 319.4 | 23.6 | 0.238 |
| 4-1210 | 4-1750 | 0.385 | 144.6 | -4.7 | -5.89 | 1.199 | 107.1 | 0.517 | 1.810 | 308.3 | 548.6 | 0.875 | 2.746 | 12.22 | 0.430 | 81.0 | 319.5 | 21.7 | 0.243 |
| 4-1210 | 4-1770 | 0.395 | 147.2 | -1.8 | -4.85 | 1.200 | 108.0 | 0.527 | 1.821 | 305.9 | 550.6 | 0.862 | 2.780 | 11.75 | 0.429 | 78.6 | 320.1 | 20.0 | 0.250 |
| 4-1210 | 4-1790 | 0.409 | 149.9 | 0.7 | -3.90 | 1.201 | 109.1 | 0.538 | 1.833 | 303.4 | 552.4 | 0.848 | 2.819 | 11.37 | 0.428 | 76.3 | 321.2 | 18.5 | 0.259 |
| 4-1210 | 4-1810 | 0.426 | 152.5 | 2.8 | -3.01 | 1.203 | 110.2 | 0.549 | 1.846 | 300.8 | 554.0 | 0.832 | 2.860 | 11.08 | 0.428 | 74.1 | 322.7 | 17.2 | 0.268 |
| 4-1210 | 4-1830 | 0.445 | 155.1 | 4.5 | -2.17 | 1.205 | 111.4 | 0.562 | 1.860 | 298.1 | 555.5 | 0.814 | 2.905 | 10.87 | 0.428 | 71.9 | 324.6 | 16.0 | 0.278 |
| 4-1210 | 4-1850 | 0.466 | 157.6 | 5.9 | -1.37 | 1.206 | 112.7 | 0.576 | 1.874 | 295.3 | 556.8 | 0.795 | 2.953 | 10.72 | 0.428 | 69.7 | 326.8 | 15.0 | 0.288 |
| 4-1210 | 4-1870 | 0.489 | 160.1 | 7.0 | -0.59 | 1.208 | 114.0 | 0.590 | 1.888 | 292.3 | 557.9 | 0.774 | 3.003 | 10.64 | 0.428 | 67.5 | 329.2 | 14.1 | 0.299 |
| 4-1210 | 4-1890 | 0.514 | 162.5 | 7.8 | 0.17 | 1.210 | 115.5 | 0.605 | 1.904 | 289.2 | 558.9 | 0.751 | 3.056 | 10.60 | 0.428 | 65.3 | 331.8 | 13.3 | 0.311 |
| 4-1210 | 4-1910 | 0.541 | 164.9 | 8.4 | 0.93 | 1.212 | 117.0 | 0.621 | 1.919 | 286.1 | 559.8 | 0.727 | 3.111 | 10.63 | 0.429 | 63.2 | 334.7 | 12.6 | 0.323 |
| 4-1210 | 4-1930 | 0.570 | 167.2 | 8.9 | 1.68 | 1.213 | 118.6 | 0.638 | 1.935 | 282.8 | 560.5 | 0.701 | 3.169 | 10.70 | 0.430 | 61.0 | 337.7 | 12.0 | 0.335 |
| 4-1210 | 4-1950 | 0.601 | 169.4 | 9.2 | 2.44 | 1.215 | 120.2 | 0.655 | 1.951 | 279.5 | 561.1 | 0.673 | 3.229 | 10.83 | 0.431 | 58.8 | 340.8 | 11.5 | 0.348 |
| 4-1220 | 4-1400 | 0.640 | 168.0 | 46.4 | 16.93 | 1.406 | 108.2 | 0.98558 | .611 | 323.2 | 467.7 | 0.904 | --- | -18.09 | 0.875 | 143.2 | 343.0 | -12.7 | 0.738 |
| 4-1220 | 4-1420 | 0.609 | 177.2 | 53.5 | 19.95 | 1.348 | 106.0 | 0.838 | 5.668 | 324.8 | 473.9 | 0.919 | --- | -20.63 | 0.778 | 139.2 | 343.7 | -16.3 | 0.640 |
| 4-1220 | 4-1440 | 0.617 | 191.9 | 59.5 | 23.93 | 1.307 | 104.1 | 0.732 | 3.478 | 326.5 | 480.3 | 0.932 | --- | -24.13 | 0.703 | 135.0 | 343.5 | -20.9 | 0.568 |
| 4-1220 | 4-1460 | 0.670 | 213.1 | 62.4 | 29.44 | 1.276 | 102.4 | 0.654 | 2.730 | 328.4 | 486.6 | 0.944 | --- | -29.16 | 0.644 | 130.7 | 341.8 | -26.9 | 0.525 |
| 4-1220 | 4-1480 | 0.782 | 235.6 | 60.0 | 37.49 | 1.254 | 101.0 | 0.597 | 2.365 | 330.4 | 492.9 | 0.954 | --- | -36.75 | 0.598 | 126.4 | 337.7 | -33.8 | 0.518 |
| 4-1220 | 4-1500 | 0.976 | 252.2 | 52.1 | 49.94 | 1.237 | 99.6 | 0.553 | 2.156 | 332.9 | 499.0 | 0.964 | --- | -48.74 | 0.561 | 121.9 | 330.3 | -39.5 | 0.563 |
| 4-1220 | 4-1560 | 1.127 | 172.5 | -78.3 | -59.99 | 1.210 | 102.1 | 0.504 | 1.886 | 323.2 | 515.0 | 0.936 | --- | 62.53 | 0.492 | 111.4 | 324.5 | 41.7 | 0.611 |
| 4-1220 | 4-1580 | 0.841 | 137.9 | -69.7 | -42.69 | 1.206 | 101.3 | 0.490 | 1.849 | 325.0 | 519.7 | 0.943 | --- | 45.68 | 0.478 | 107.5 | 329.3 | 43.9 | 0.471 |
| 4-1220 | 4-1600 | 0.655 | 130.6 | -60.1 | -31.66 | 1.203 | 101.0 | 0.481 | 1.825 | 325.7 | 524.1 | 0.946 | --- | 35.10 | 0.467 | 103.8 | 331.2 | 43.4 | 0.380 |
| 4-1220 | 4-1620 | 0.537 | 129.5 | -51.4 | -24.44 | 1.201 | 100.9 | 0.477 | 1.810 | 325.7 | 528.1 | 0.947 | --- | 28.32 | 0.459 | 100.5 | 330.9 | 41.6 | 0.322 |
| 4-1220 | 4-1640 | 0.460 | 130.5 | -43.5 | -19.43 | 1.200 | 101.1 | 0.476 | 1.802 | 325.2 | 531.8 | 0.945 | --- | 23.76 | 0.452 | 97.3 | 329.3 | 39.3 | 0.285 |
| 4-1220 | 4-1660 | 0.410 | 132.4 | -36.1 | -15.76 | 1.199 | 101.4 | 0.476 | 1.799 | 324.2 | 535.2 | 0.942 | --- | 20.54 | 0.447 | 94.3 | 327.2 | 36.7 | 0.261 |
| 4-1220 | 4-1680 | 0.378 | 134.9 | -29.3 | -12.95 | 1.199 | 101.8 | 0.479 | 1.800 | 323.0 | 538.3 | 0.937 | --- | 18.19 | 0.443 | 91.5 | 325.2 | 34.0 | 0.247 |
| 4-1220 | 4-1700 | 0.359 | 137.7 | -23.1 | -10.71 | 1.200 | 102.3 | 0.484 | 1.804 | 321.4 | 541.2 | 0.931 | 2.676 | 16.41 | 0.440 | 88.9 | 323.6 | 31.2 | 0.240 |
| 4-1220 | 4-1720 | 0.349 | 140.7 | -17.5 | -8.87 | 1.201 | 103.0 | 0.489 | 1.810 | 319.7 | 543.8 | 0.924 | 2.696 | 15.04 | 0.437 | 86.4 | 322.4 | 28.6 | 0.237 |
| 4-1220 | 4-1740 | 0.347 | 143.9 | -12.6 | -7.31 | 1.202 | 103.7 | 0.496 | 1.818 | 317.7 | 546.2 | 0.916 | 2.721 | 13.96 | 0.435 | 84.0 | 321.9 | 26.1 | 0.237 |
| 4-1220 | 4-1760 | 0.350 | 147.0 | -8.3 | -5.97 | 1.203 | 104.6 | 0.504 | 1.828 | 315.6 | 548.4 | 0.907 | 2.750 | 13.11 | 0.434 | 81.7 | 322.0 | 23.9 | 0.241 |
| 4-1220 | 4-1780 | 0.357 | 150.2 | -4.6 | -4.78 | 1.205 | 105.5 | 0.513 | 1.839 | 313.3 | 550.3 | 0.896 | 2.783 | 12.43 | 0.433 | 79.5 | 322.6 | 21.9 | 0.246 |
| 4-1220 | 4-1800 | 0.368 | 153.3 | -1.6 | -3.72 | 1.206 | 106.4 | 0.523 | 1.852 | 310.8 | 552.2 | 0.884 | 2.820 | 11.88 | 0.432 | 77.3 | 323.6 | 20.1 | 0.252 |
| 4-1220 | 4-1820 | 0.383 | 156.4 | 1.0 | -2.75 | 1.208 | 107.5 | 0.533 | 1.865 | 308.3 | 553.8 | 0.870 | 2.859 | 11.45 | 0.432 | 75.2 | 325.1 | 18.6 | 0.260 |
| 4-1220 | 4-1840 | 0.399 | 159.3 | 3.0 | -1.85 | 1.209 | 108.6 | 0.545 | 1.878 | 305.6 | 555.3 | 0.855 | 2.902 | 11.11 | 0.431 | 73.1 | 326.9 | 17.3 | 0.268 |
| 4-1220 | 4-1860 | 0.418 | 162.1 | 4.6 | -1.01 | 1.211 | 109.8 | 0.557 | 1.893 | 302.8 | 556.7 | 0.839 | 2.946 | 10.84 | 0.431 | 71.1 | 329.0 | 16.1 | 0.277 |
| 4-1220 | 4-1880 | 0.440 | 164.9 | 5.9 | -0.21 | 1.212 | 111.0 | 0.570 | 1.907 | 300.0 | 557.9 | 0.821 | 2.994 | 10.65 | 0.432 | 69.1 | 331.3 | 15.1 | 0.286 |
| 4-1220 | 4-1900 | 0.463 | 167.5 | 6.8 | 0.55 | 1.214 | 112.3 | 0.583 | 1.922 | 297.0 | 559.0 | 0.801 | 3.043 | 10.52 | 0.432 | 67.1 | 333.9 | 14.2 | 0.296 |
| 4-1220 | 4-1920 | 0.487 | 170.0 | 7.5 | 1.30 | 1.216 | 113.7 | 0.597 | 1.938 | 294.0 | 559.9 | 0.780 | 3.095 | 10.44 | 0.433 | 65.1 | 336.6 | 13.4 | 0.307 |
| 4-1220 | 4-1940 | 0.514 | 172.5 | 8.0 | 2.03 | 1.218 | 115.2 | 0.612 | 1.953 | 290.8 | 560.7 | 0.757 | 3.149 | 10.41 | 0.434 | 63.1 | 339.5 | 12.7 | 0.317 |
| 4-1220 | 4-1960 | 0.542 | 174.8 | 8.3 | 2.75 | 1.219 | 116.7 | 0.628 | 1.969 | 287.6 | 561.4 | 0.733 | 3.205 | 10.43 | 0.435 | 61.1 | 342.6 | 12.1 | 0.328 |
| 4-1230 | 4-1390 | 0.641 | 164.3 | 39.1 | 13.02 | 1.475 | 106.9 | 1.160 | -5.748 | 328.5 | 461.1 | 0.921 | --- | -13.50 | 0.978 | 145.7 | 344.8 | -8.9 | 0.831 |
| 4-1230 | 4-1410 | 0.572 | 168.7 | 45.7 | 14.74 | 1.398 | 104.7 | 0.956 | 21.447 | 330.0 | 467.4 | 0.934 | --- | -14.71 | 0.858 | 141.9 | 346.1 | -11.0 | 0.704 |
| 4-1230 | 4-1430 | 0.534 | 175.2 | 52.6 | 16.81 | 1.343 | 102.7 | 0.814 | 5.080 | 331.7 | 473.8 | 0.946 | --- | -16.30 | 0.765 | 138.0 | 347.1 | -13.7 | 0.605 |
| 4-1230 | 4-1450 | 0.526 | 185.4 | 59.2 | 19.38 | 1.303 | 101.0 | 0.712 | 3.316 | 333.5 | 480.4 | 0.956 | --- | -18.39 | 0.693 | 133.8 | 347.4 | -17.4 | 0.529 |
| 4-1230 | 4-1470 | 0.546 | 200.9 | 64.1 | 22.69 | 1.275 | 99.6 | 0.638 | 2.661 | 335.3 | 487.0 | 0.964 | --- | -21.24 | 0.636 | 129.6 | 346.9 | -22.1 | 0.473 |
| 4-1230 | 4-1490 | 0.599 | 221.6 | 65.9 | 27.16 | 1.253 | 98.4 | 0.583 | 2.331 | 337.2 | 493.4 | 0.971 | --- | -25.26 | 0.592 | 125.3 | 345.0 | -27.9 | 0.440 |
| 4-1230 | 4-1510 | 0.693 | 242.3 | 63.4 | 33.53 | 1.238 | 97.4 | 0.544 | 2.139 | 339.0 | 499.6 | 0.977 | --- | -31.19 | 0.557 | 121.0 | 341.2 | -34.6 | 0.436 |
| 4-1230 | 4-1530 | 0.850 | 258.0 | 56.9 | 43.19 | 1.227 | 96.5 | 0.514 | 2.020 | 340.9 | 505.5 | 0.981 | --- | -40.41 | 0.530 | 116.8 | 335.0 | -40.6 | 0.471 |
| 4-1230 | 4-1550 | 1.103 | 268.1 | 46.4 | 58.56 | 1.219 | 95.5 | 0.492 | 1.942 | 343.2 | 511.1 | 0.986 | --- | -55.35 | 0.508 | 112.7 | 326.9 | -43.1 | 0.565 |
| 4-1230 | 4-1610 | 0.932 | 133.3 | -78.6 | -48.47 | 1.206 | 99.0 | 0.475 | 1.833 | 331.8 | 524.2 | 0.962 | --- | 52.94 | 0.468 | 103.4 | 328.7 | 44.7 | 0.517 |
| 4-1230 | 4-1630 | 0.693 | 125.7 | -66.8 | -34.38 | 1.204 | 98.7 | 0.470 | 1.820 | 332.5 | 528.3 | 0.964 | --- | 39.27 | 0.460 | 100.1 | 330.7 | 45.3 | 0.404 |
| 4-1230 | 4-1650 | 0.543 | 126.6 | -56.7 | -25.49 | 1.204 | 98.8 | 0.469 | 1.813 | 332.3 | 531.9 | 0.963 | --- | 30.78 | 0.454 | 97.0 | 330.4 | 43.6 | 0.334 |
| 4-1230 | 4-1670 | 0.450 | 129.3 | -47.6 | -19.56 | 1.203 | 99.0 | 0.469 | 1.812 | 331.5 | 535.3 | 0.961 | --- | 25.27 | 0.449 | 94.1 | 329.0 | 41.0 | 0.292 |
| 4-1230 | 4-1690 | 0.390 | 132.6 | -39.1 | -15.36 | 1.204 | 99.4 | 0.472 | 1.813 | 330.4 | 538.4 | 0.958 | --- | 21.49 | 0.445 | 91.5 | 327.3 | 37.9 | 0.266 |
| 4-1230 | 4-1710 | 0.353 | 136.3 | -31.3 | -12.23 | 1.204 | 99.9 | 0.476 | 1.818 | 328.9 | 541.2 | 0.954 | 2.683 | 18.78 | 0.442 | 88.9 | 325.8 | 34.6 | 0.251 |
| 4-1230 | 4-1730 | 0.332 | 140.2 | -24.1 | -9.79 | 1.205 | 100.5 | 0.481 | 1.825 | 327.1 | 543.7 | 0.948 | 2.703 | 16.77 | 0.440 | 86.6 | 324.8 | 31.5 | 0.243 |
| 4-1230 | 4-1750 | 0.321 | 144.2 | -17.7 | -7.82 | 1.206 | 101.2 | 0.487 | 1.834 | 325.2 | 546.1 | 0.941 | 2.727 | 15.23 | 0.438 | 84.3 | 324.3 | 28.6 | 0.239 |
| 4-1230 | 4-1770 | 0.319 | 148.1 | -12.2 | -6.19 | 1.208 | 102.0 | 0.494 | 1.845 | 323.1 | 548.2 | 0.934 | 2.756 | 14.04 | 0.437 | 82.1 | 324.3 | 26.0 | 0.240 |
| 4-1230 | 4-1790 | 0.322 | 152.0 | -7.5 | -4.79 | 1.209 | 102.9 | 0.502 | 1.856 | 320.8 | 550.2 | 0.925 | 2.788 | 13.09 | 0.436 | 80.0 | 324.9 | 23.6 | 0.243 |
| 4-1230 | 4-1810 | 0.331 | 155.8 | -3.7 | -3.58 | 1.210 | 103.8 | 0.511 | 1.869 | 318.4 | 552.0 | 0.915 | 2.823 | 12.34 | 0.435 | 78.0 | 325.9 | 21.6 | 0.247 |
| 4-1230 | 4-1830 | 0.342 | 159.4 | -0.6 | -2.50 | 1.212 | 104.8 | 0.520 | 1.882 | 315.9 | 553.7 | 0.903 | 2.861 | 11.73 | 0.435 | 76.0 | 327.3 | 19.8 | 0.253 |
| 4-1230 | 4-1850 | 0.357 | 162.8 | 1.9 | -1.53 | 1.214 | 105.8 | 0.530 | 1.896 | 313.3 | 555.2 | 0.891 | 2.901 | 11.24 | 0.435 | 74.1 | 329.1 | 18.3 | 0.260 |
| 4-1230 | 4-1870 | 0.374 | 166.1 | 3.8 | -0.64 | 1.215 | 106.9 | 0.541 | 1.910 | 310.5 | 556.6 | 0.877 | 2.944 | 10.85 | 0.435 | 72.2 | 331.1 | 17.0 | 0.267 |
| 4-1230 | 4-1890 | 0.394 | 169.2 | 5.2 | 0.18 | 1.217 | 108.1 | 0.552 | 1.925 | 307.7 | 557.8 | 0.862 | 2.989 | 10.54 | 0.435 | 70.4 | 333.4 | 15.8 | 0.275 |
| 4-1230 | 4-1910 | 0.415 | 172.1 | 6.3 | 0.96 | 1.219 | 109.3 | 0.564 | 1.940 | 304.8 | 559.0 | 0.845 | 3.035 | 10.30 | 0.436 | 68.5 | 335.9 | 14.8 | 0.284 |
| 4-1230 | 4-1930 | 0.437 | 174.9 | 7.1 | 1.70 | 1.220 | 110.6 | 0.577 | 1.956 | 301.9 | 560.0 | 0.827 | 3.084 | 10.13 | 0.436 | 66.7 | 338.5 | 13.9 | 0.293 |
| 4-1230 | 4-1950 | 0.462 | 177.5 | 7.5 | 2.41 | 1.222 | 111.9 | 0.590 | 1.971 | 298.8 | 560.9 | 0.808 | 3.135 | 10.00 | 0.437 | 64.9 | 341.3 | 13.2 | 0.302 |
| 4-1230 | 4-1970 | 0.487 | 180.0 | 7.8 | 3.10 | 1.224 | 113.3 | 0.604 | 1.987 | 295.7 | 561.7 | 0.787 | 3.188 | 9.93 | 0.438 | 63.0 | 344.3 | 12.5 | 0.312 |
| 4-1240 | 4-1400 | 0.578 | 165.4 | 39.9 | 11.98 | 1.460 | 102.9 | 1.119 | -8.009 | 335.7 | 461.0 | 0.950 | --- | -11.18 | 0.952 | 144.4 | 347.5 | -7.8 | 0.792 |
| 4-1240 | 4-1420 | 0.512 | 168.5 | 46.4 | 13.25 | 1.387 | 100.9 | 0.922 | 12.367 | 337.4 | 467.6 | 0.960 | --- | -11.96 | 0.837 | 140.6 | 348.8 | -9.5 | 0.669 |
| 4-1240 | 4-1440 | 0.474 | 173.0 | 53.3 | 14.71 | 1.336 | 99.1 | 0.786 | 4.522 | 339.3 | 474.3 | 0.969 | --- | -12.95 | 0.749 | 136.6 | 349.8 | -11.6 | 0.572 |
| 4-1240 | 4-1460 | 0.459 | 179.8 | 60.0 | 16.45 | 1.299 | 97.6 | 0.689 | 3.136 | 341.2 | 481.2 | 0.975 | --- | -14.23 | 0.680 | 132.5 | 350.4 | -14.4 | 0.495 |
| 4-1240 | 4-1480 | 0.465 | 190.6 | 65.6 | 18.57 | 1.272 | 96.4 | 0.619 | 2.577 | 343.2 | 487.9 | 0.981 | --- | -15.92 | 0.626 | 128.3 | 350.2 | -18.0 | 0.436 |
| 4-1240 | 4-1500 | 0.490 | 207.0 | 69.4 | 21.25 | 1.252 | 95.5 | 0.569 | 2.285 | 344.9 | 494.4 | 0.985 | --- | -18.17 | 0.584 | 124.0 | 349.2 | -22.6 | 0.393 |
| 4-1240 | 4-1520 | 0.537 | 227.7 | 70.3 | 24.79 | 1.238 | 94.7 | 0.533 | 2.114 | 346.5 | 500.7 | 0.988 | --- | -21.29 | 0.551 | 119.9 | 347.0 | -28.2 | 0.367 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1240 | 4-1540 | 0.614 | 247.5 | 67.9 | 29.70 | 1.228 | 94.1 | 0.507 | 2.005 | 347.9 | 506.5 | 0.990 | --- | -25.79 | 0.525 | 115.8 | 343.5 | -34.5 | 0.363 |
| 4-1240 | 4-1560 | 0.735 | 262.4 | 62.5 | 36.96 | 1.220 | 93.6 | 0.488 | 1.935 | 349.1 | 512.0 | 0.991 | --- | -32.66 | 0.505 | 111.9 | 338.2 | -40.7 | 0.388 |
| 4-1240 | 4-1580 | 0.931 | 272.8 | 53.9 | 48.49 | 1.215 | 93.1 | 0.474 | 1.888 | 350.4 | 517.2 | 0.993 | --- | -43.79 | 0.490 | 108.1 | 331.8 | -44.6 | 0.458 |
| 4-1240 | 4-1600 | 1.242 | 280.1 | 41.4 | 67.49 | 1.211 | 92.4 | 0.465 | 1.857 | 352.3 | 522.0 | 0.994 | --- | -62.41 | 0.477 | 104.4 | 326.1 | -43.6 | 0.594 |
| 4-1240 | 4-1640 | 1.073 | 81.3 | -86.9 | -57.04 | 1.208 | 96.9 | 0.467 | 1.827 | 338.3 | 528.6 | 0.975 | --- | 62.88 | 0.460 | 99.7 | 329.4 | 43.6 | 0.586 |
| 4-1240 | 4-1660 | 0.755 | 114.0 | -72.9 | -38.25 | 1.207 | 96.5 | 0.464 | 1.822 | 339.2 | 532.3 | 0.977 | --- | 44.47 | 0.455 | 96.6 | 331.1 | 46.1 | 0.439 |
| 4-1240 | 4-1680 | 0.560 | 121.0 | -61.2 | -26.86 | 1.207 | 96.6 | 0.464 | 1.822 | 338.9 | 535.6 | 0.976 | --- | 33.45 | 0.450 | 93.8 | 330.7 | 44.9 | 0.351 |
| 4-1240 | 4-1700 | 0.442 | 126.6 | -50.8 | -19.68 | 1.207 | 97.0 | 0.466 | 1.825 | 338.0 | 538.6 | 0.974 | --- | 26.64 | 0.447 | 91.2 | 329.4 | 41.9 | 0.300 |
| 4-1240 | 4-1720 | 0.371 | 131.9 | -41.1 | -14.82 | 1.208 | 97.4 | 0.470 | 1.831 | 336.6 | 541.4 | 0.971 | 2.691 | 22.16 | 0.444 | 88.8 | 328.0 | 38.3 | 0.270 |
| 4-1240 | 4-1740 | 0.328 | 137.2 | -32.1 | -11.33 | 1.209 | 98.0 | 0.474 | 1.839 | 334.9 | 543.9 | 0.967 | 2.711 | 19.04 | 0.442 | 86.5 | 326.9 | 34.6 | 0.254 |
| 4-1240 | 4-1760 | 0.305 | 142.4 | -23.9 | -8.69 | 1.210 | 98.7 | 0.480 | 1.848 | 332.9 | 546.2 | 0.962 | 2.735 | 16.78 | 0.441 | 84.4 | 326.4 | 31.1 | 0.245 |
| 4-1240 | 4-1780 | 0.294 | 147.4 | -16.7 | -6.61 | 1.212 | 99.4 | 0.486 | 1.860 | 330.8 | 548.3 | 0.956 | 2.763 | 15.08 | 0.439 | 82.3 | 326.4 | 28.0 | 0.241 |
| 4-1240 | 4-1800 | 0.292 | 152.3 | -10.6 | -4.91 | 1.213 | 100.3 | 0.493 | 1.872 | 328.6 | 550.2 | 0.949 | 2.795 | 13.77 | 0.439 | 80.3 | 327.0 | 25.3 | 0.241 |
| 4-1240 | 4-1820 | 0.296 | 157.0 | -5.6 | -3.49 | 1.215 | 101.1 | 0.501 | 1.885 | 326.2 | 552.0 | 0.941 | 2.829 | 12.74 | 0.438 | 78.4 | 328.0 | 22.9 | 0.244 |
| 4-1240 | 4-1840 | 0.305 | 161.4 | -1.7 | -2.27 | 1.216 | 102.1 | 0.509 | 1.898 | 323.7 | 553.7 | 0.932 | 2.865 | 11.92 | 0.438 | 76.6 | 329.4 | 20.8 | 0.248 |
| 4-1240 | 4-1860 | 0.318 | 165.5 | 1.4 | -1.20 | 1.218 | 103.1 | 0.518 | 1.913 | 321.1 | 555.2 | 0.921 | 2.904 | 11.26 | 0.438 | 74.8 | 331.1 | 19.1 | 0.253 |
| 4-1240 | 4-1880 | 0.334 | 169.3 | 3.7 | -0.24 | 1.219 | 104.1 | 0.528 | 1.927 | 318.4 | 556.6 | 0.910 | 2.944 | 10.73 | 0.438 | 73.1 | 333.1 | 17.5 | 0.259 |
| 4-1240 | 4-1900 | 0.351 | 172.9 | 5.3 | 0.62 | 1.221 | 105.2 | 0.538 | 1.942 | 315.6 | 557.8 | 0.898 | 2.987 | 10.30 | 0.438 | 71.4 | 335.3 | 16.2 | 0.266 |
| 4-1240 | 4-1920 | 0.370 | 176.2 | 6.5 | 1.41 | 1.223 | 106.4 | 0.549 | 1.958 | 312.8 | 559.0 | 0.884 | 3.031 | 9.96 | 0.439 | 69.6 | 337.7 | 15.1 | 0.273 |
| 4-1240 | 4-1940 | 0.391 | 179.3 | 7.3 | 2.15 | 1.224 | 107.6 | 0.560 | 1.973 | 309.9 | 560.1 | 0.869 | 3.078 | 9.68 | 0.439 | 68.0 | 340.4 | 14.1 | 0.281 |
| 4-1240 | 4-1960 | 0.414 | 182.2 | 7.8 | 2.85 | 1.226 | 108.8 | 0.572 | 1.989 | 306.9 | 561.0 | 0.852 | 3.125 | 9.47 | 0.440 | 66.3 | 343.1 | 13.3 | 0.289 |
| 4-1240 | 4-1980 | 0.437 | 184.9 | 8.0 | 3.51 | 1.228 | 110.1 | 0.584 | 2.005 | 303.9 | 561.9 | 0.834 | 3.175 | 9.31 | 0.441 | 64.6 | 346.0 | 12.5 | 0.297 |
| 4-1250 | 4-1390 | 0.615 | 163.1 | 35.9 | 10.40 | 1.540 | 100.5 | 1.347 | -2.785 | 341.8 | 454.9 | 0.966 | --- | -8.73 | 1.068 | 146.6 | 348.4 | -5.7 | 0.904 |
| 4-1250 | 4-1410 | 0.522 | 164.6 | 41.9 | 11.26 | 1.443 | 98.5 | 1.069 | 14.160 | 343.5 | 461.5 | 0.973 | --- | -9.10 | 0.923 | 143.1 | 349.8 | -6.7 | 0.752 |
| 4-1250 | 4-1430 | 0.462 | 166.2 | 48.5 | 12.20 | 1.376 | 96.8 | 0.883 | 8.366 | 345.5 | 468.4 | 0.979 | --- | -9.58 | 0.814 | 139.3 | 351.1 | -8.0 | 0.634 |
| 4-1250 | 4-1450 | 0.427 | 168.5 | 55.4 | 13.26 | 1.328 | 95.3 | 0.755 | 4.014 | 347.6 | 475.5 | 0.984 | --- | -10.19 | 0.730 | 135.3 | 352.0 | -9.7 | 0.539 |
| 4-1250 | 4-1470 | 0.411 | 172.1 | 61.9 | 14.46 | 1.293 | 94.1 | 0.665 | 2.947 | 349.8 | 482.6 | 0.988 | --- | -10.97 | 0.664 | 131.1 | 352.5 | -11.8 | 0.464 |
| 4-1250 | 4-1490 | 0.410 | 178.5 | 67.7 | 15.86 | 1.268 | 93.1 | 0.601 | 2.481 | 351.8 | 489.5 | 0.991 | --- | -11.97 | 0.614 | 126.9 | 352.4 | -14.6 | 0.405 |
| 4-1250 | 4-1510 | 0.421 | 189.4 | 72.4 | 17.55 | 1.250 | 92.3 | 0.555 | 2.230 | 353.6 | 496.1 | 0.992 | --- | -13.26 | 0.574 | 122.7 | 351.6 | -18.0 | 0.358 |
| 4-1250 | 4-1530 | 0.446 | 206.7 | 75.4 | 19.64 | 1.237 | 91.7 | 0.523 | 2.080 | 355.0 | 502.3 | 0.993 | --- | -14.98 | 0.543 | 118.6 | 350.0 | -22.3 | 0.325 |
| 4-1250 | 4-1550 | 0.484 | 229.1 | 75.8 | 22.34 | 1.228 | 91.3 | 0.499 | 1.984 | 356.1 | 508.1 | 0.994 | --- | -17.31 | 0.519 | 114.6 | 347.5 | -27.4 | 0.305 |
| 4-1250 | 4-1570 | 0.543 | 249.8 | 73.6 | 25.99 | 1.221 | 91.0 | 0.483 | 1.922 | 356.9 | 513.5 | 0.994 | --- | -20.60 | 0.500 | 110.8 | 343.9 | -33.2 | 0.300 |
| 4-1250 | 4-1590 | 0.632 | 264.9 | 69.0 | 31.23 | 1.217 | 90.9 | 0.472 | 1.881 | 357.3 | 518.4 | 0.994 | --- | -25.50 | 0.486 | 107.2 | 339.5 | -39.2 | 0.316 |
| 4-1250 | 4-1610 | 0.773 | 275.6 | 62.2 | 39.37 | 1.213 | 90.7 | 0.464 | 1.855 | 357.7 | 522.9 | 0.994 | --- | -33.29 | 0.475 | 103.8 | 334.6 | -44.1 | 0.364 |
| 4-1250 | 4-1630 | 1.008 | 283.8 | 52.1 | 53.08 | 1.212 | 90.6 | 0.459 | 1.839 | 358.2 | 527.1 | 0.994 | --- | -46.67 | 0.466 | 100.5 | 330.4 | -46.1 | 0.462 |
| 4-1250 | 4-1650 | 1.386 | 290.7 | 37.1 | 76.80 | 1.210 | 90.1 | 0.457 | 1.831 | 359.7 | 531.2 | 0.994 | --- | -70.05 | 0.460 | 97.3 | 328.8 | -42.2 | 0.638 |
| 4-1250 | 4-1690 | 0.862 | 87.3 | -77.5 | -44.50 | 1.210 | 94.4 | 0.462 | 1.829 | 345.9 | 536.1 | 0.985 | --- | 51.90 | 0.450 | 93.3 | 333.0 | 45.8 | 0.494 |
| 4-1250 | 4-1710 | 0.592 | 112.1 | -64.8 | -28.95 | 1.211 | 94.5 | 0.463 | 1.834 | 345.6 | 539.1 | 0.984 | --- | 36.67 | 0.447 | 90.8 | 332.0 | 45.5 | 0.374 |
| 4-1250 | 4-1730 | 0.439 | 122.7 | -52.9 | -19.87 | 1.212 | 94.9 | 0.466 | 1.841 | 344.5 | 541.8 | 0.983 | 2.699 | 27.92 | 0.445 | 88.4 | 330.4 | 42.3 | 0.309 |
| 4-1250 | 4-1750 | 0.352 | 130.7 | -41.8 | -14.14 | 1.213 | 95.5 | 0.470 | 1.850 | 342.8 | 544.2 | 0.980 | 2.719 | 22.50 | 0.443 | 86.3 | 329.1 | 38.1 | 0.274 |
| 4-1250 | 4-1770 | 0.303 | 137.8 | -31.4 | -10.22 | 1.214 | 96.1 | 0.475 | 1.860 | 340.9 | 546.5 | 0.977 | 2.744 | 18.90 | 0.442 | 84.2 | 328.4 | 33.9 | 0.255 |
| 4-1250 | 4-1790 | 0.278 | 144.4 | -21.9 | -7.36 | 1.215 | 96.8 | 0.481 | 1.872 | 338.8 | 548.5 | 0.973 | 2.772 | 16.37 | 0.441 | 82.3 | 328.4 | 30.1 | 0.246 |
| 4-1250 | 4-1810 | 0.267 | 150.7 | -13.8 | -5.18 | 1.217 | 97.6 | 0.487 | 1.885 | 336.5 | 550.4 | 0.967 | 2.803 | 14.52 | 0.441 | 80.4 | 328.9 | 26.8 | 0.242 |
| 4-1250 | 4-1830 | 0.267 | 156.5 | -7.2 | -3.44 | 1.219 | 98.5 | 0.494 | 1.899 | 334.1 | 552.1 | 0.961 | 2.836 | 13.11 | 0.440 | 78.7 | 329.8 | 23.9 | 0.242 |
| 4-1250 | 4-1850 | 0.273 | 162.0 | -2.0 | -2.02 | 1.220 | 99.4 | 0.501 | 1.913 | 331.6 | 553.8 | 0.954 | 2.871 | 12.02 | 0.440 | 76.9 | 331.2 | 21.5 | 0.244 |
| 4-1250 | 4-1870 | 0.283 | 167.0 | 1.8 | -0.81 | 1.222 | 100.3 | 0.509 | 1.928 | 329.0 | 555.2 | 0.947 | 2.909 | 11.15 | 0.440 | 75.3 | 332.9 | 19.5 | 0.247 |
| 4-1250 | 4-1890 | 0.297 | 171.6 | 4.6 | 0.22 | 1.223 | 101.3 | 0.517 | 1.943 | 326.3 | 556.6 | 0.938 | 2.948 | 10.46 | 0.441 | 73.6 | 334.9 | 17.7 | 0.252 |
| 4-1250 | 4-1910 | 0.313 | 175.9 | 6.5 | 1.14 | 1.225 | 102.4 | 0.526 | 1.958 | 323.6 | 557.9 | 0.927 | 2.989 | 9.90 | 0.441 | 72.0 | 337.1 | 16.3 | 0.258 |
| 4-1250 | 4-1930 | 0.331 | 179.7 | 7.8 | 1.95 | 1.227 | 103.5 | 0.536 | 1.974 | 320.8 | 559.1 | 0.916 | 3.031 | 9.45 | 0.442 | 70.5 | 339.5 | 15.0 | 0.264 |
| 4-1250 | 4-1950 | 0.350 | 183.3 | 8.6 | 2.70 | 1.228 | 104.6 | 0.546 | 1.989 | 317.9 | 560.2 | 0.904 | 3.075 | 9.08 | 0.442 | 68.9 | 342.1 | 13.9 | 0.270 |
| 4-1250 | 4-1970 | 0.370 | 186.5 | 9.0 | 3.38 | 1.230 | 105.8 | 0.556 | 2.005 | 315.0 | 561.2 | 0.890 | 3.120 | 8.78 | 0.443 | 67.4 | 344.8 | 13.0 | 0.277 |
| 4-1250 | 4-1990 | 0.392 | 189.5 | 9.1 | 4.02 | 1.232 | 107.0 | 0.567 | 2.021 | 312.0 | 562.1 | 0.875 | 3.167 | 8.55 | 0.444 | 65.8 | 347.7 | 12.2 | 0.284 |
| 4-1260 | 4-1400 | 0.560 | 161.1 | 38.7 | 10.14 | 1.514 | 95.6 | 1.271 | -3.634 | 350.0 | 455.7 | 0.983 | --- | -6.97 | 1.028 | 145.4 | 350.5 | -4.7 | 0.856 |
| 4-1260 | 4-1420 | 0.477 | 160.9 | 45.0 | 10.78 | 1.424 | 94.0 | 1.011 | 86.757 | 352.1 | 462.8 | 0.987 | --- | -7.17 | 0.891 | 141.8 | 351.8 | -5.6 | 0.711 |
| 4-1260 | 4-1440 | 0.425 | 160.4 | 51.6 | 11.47 | 1.362 | 92.5 | 0.840 | 6.167 | 354.4 | 470.1 | 0.990 | --- | -7.44 | 0.787 | 137.9 | 352.9 | -6.6 | 0.598 |
| 4-1260 | 4-1460 | 0.395 | 159.8 | 58.1 | 12.22 | 1.318 | 91.3 | 0.722 | 3.566 | 356.9 | 477.5 | 0.991 | --- | -7.79 | 0.708 | 133.9 | 353.7 | -7.8 | 0.508 |
| 4-1260 | 4-1480 | 0.380 | 159.5 | 64.1 | 13.05 | 1.286 | 90.3 | 0.640 | 2.758 | 359.3 | 484.8 | 0.992 | --- | -8.25 | 0.646 | 129.7 | 354.0 | -9.4 | 0.435 |
| 4-1260 | 4-1500 | 0.376 | 160.5 | 69.5 | 13.99 | 1.264 | 89.5 | 0.583 | 2.379 | 1.4 | 131.8 | --- | --- | -8.82 | 0.599 | 125.4 | 353.7 | -11.4 | 0.377 |
| 4-1260 | 4-1520 | 0.381 | 163.7 | 74.1 | 15.07 | 1.247 | 88.9 | 0.543 | 2.167 | 3.1 | 138.4 | --- | --- | -9.56 | 0.562 | 121.2 | 352.9 | -14.0 | 0.331 |
| 4-1260 | 4-1540 | 0.393 | 171.5 | 77.9 | 16.34 | 1.235 | 88.5 | 0.514 | 2.039 | 4.4 | 144.6 | --- | --- | -10.50 | 0.533 | 117.1 | 351.3 | -17.0 | 0.295 |
| 4-1260 | 4-1560 | 0.412 | 187.7 | 80.7 | 17.89 | 1.227 | 88.3 | 0.494 | 1.957 | 5.3 | 150.3 | --- | --- | -11.73 | 0.511 | 113.2 | 348.9 | -20.8 | 0.269 |
| 4-1260 | 4-1580 | 0.441 | 214.7 | 81.8 | 19.85 | 1.221 | 88.1 | 0.480 | 1.903 | 5.7 | 155.4 | --- | --- | -13.38 | 0.494 | 109.5 | 345.9 | -25.2 | 0.254 |
| 4-1260 | 4-1600 | 0.482 | 243.1 | 80.4 | 22.42 | 1.217 | 88.2 | 0.470 | 1.869 | 5.7 | 160.1 | --- | --- | -15.66 | 0.481 | 106.0 | 342.3 | -30.1 | 0.249 |
| 4-1260 | 4-1620 | 0.541 | 262.5 | 76.7 | 26.01 | 1.215 | 88.3 | 0.464 | 1.848 | 5.5 | 164.4 | --- | --- | -18.96 | 0.471 | 102.7 | 338.4 | -35.4 | 0.258 |
| 4-1260 | 4-1640 | 0.634 | 275.0 | 71.2 | 31.38 | 1.213 | 88.4 | 0.460 | 1.836 | 4.9 | 168.3 | --- | --- | -24.04 | 0.463 | 99.6 | 334.8 | -40.7 | 0.286 |
| 4-1260 | 4-1660 | 0.789 | 284.4 | 63.4 | 40.23 | 1.213 | 88.6 | 0.459 | 1.830 | 4.4 | 171.9 | --- | --- | -32.61 | 0.457 | 96.8 | 332.1 | -45.0 | 0.346 |
| 4-1260 | 4-1680 | 1.067 | 292.8 | 51.7 | 56.52 | 1.213 | 88.7 | 0.458 | 1.830 | 4.2 | 175.2 | --- | --- | -48.63 | 0.453 | 94.0 | 331.7 | -46.2 | 0.470 |
| 4-1260 | 4-1720 | 1.062 | 37.7 | -76.8 | -56.20 | 1.214 | 92.4 | 0.462 | 1.839 | 352.2 | 539.7 | 0.989 | --- | 64.63 | 0.447 | 90.3 | 336.9 | 43.4 | 0.588 |
| 4-1260 | 4-1740 | 0.655 | 98.7 | -67.6 | -32.61 | 1.215 | 92.5 | 0.465 | 1.848 | 352.2 | 542.4 | 0.989 | 2.707 | 41.30 | 0.445 | 87.9 | 334.7 | 45.8 | 0.410 |
| 4-1260 | 4-1760 | 0.443 | 117.9 | -54.1 | -20.27 | 1.216 | 92.9 | 0.468 | 1.858 | 350.9 | 544.8 | 0.988 | 2.729 | 29.22 | 0.444 | 85.8 | 332.2 | 42.4 | 0.320 |
| 4-1260 | 4-1780 | 0.334 | 129.3 | -40.9 | -13.24 | 1.217 | 93.5 | 0.473 | 1.870 | 349.1 | 546.9 | 0.986 | 2.754 | 22.45 | 0.443 | 83.9 | 330.8 | 37.4 | 0.277 |
| 4-1260 | 4-1800 | 0.278 | 138.5 | -28.4 | -8.79 | 1.219 | 94.2 | 0.478 | 1.883 | 347.0 | 548.9 | 0.984 | 2.782 | 18.26 | 0.442 | 82.0 | 330.3 | 32.5 | 0.255 |
| 4-1260 | 4-1820 | 0.252 | 146.7 | -17.2 | -5.72 | 1.220 | 95.0 | 0.483 | 1.897 | 344.7 | 550.7 | 0.980 | 2.813 | 15.45 | 0.442 | 80.3 | 330.6 | 28.3 | 0.245 |
| 4-1260 | 4-1840 | 0.244 | 154.2 | -8.2 | -3.46 | 1.222 | 95.8 | 0.489 | 1.911 | 342.3 | 552.4 | 0.976 | 2.845 | 13.46 | 0.442 | 78.6 | 331.5 | 24.7 | 0.241 |
| 4-1260 | 4-1860 | 0.246 | 161.0 | -1.2 | -1.73 | 1.224 | 96.7 | 0.496 | 1.926 | 339.8 | 554.0 | 0.971 | 2.880 | 11.99 | 0.442 | 77.0 | 332.9 | 21.8 | 0.241 |
| 4-1260 | 4-1880 | 0.254 | 167.2 | 3.7 | -0.33 | 1.225 | 97.6 | 0.502 | 1.941 | 337.2 | 555.4 | 0.966 | 2.916 | 10.87 | 0.442 | 75.5 | 334.6 | 19.4 | 0.243 |
| 4-1260 | 4-1900 | 0.266 | 172.9 | 7.1 | 0.82 | 1.227 | 98.6 | 0.510 | 1.957 | 334.5 | 556.8 | 0.959 | 2.954 | 9.99 | 0.443 | 74.0 | 336.5 | 17.4 | 0.246 |
| 4-1260 | 4-1920 | 0.280 | 177.9 | 9.4 | 1.79 | 1.229 | 99.6 | 0.518 | 1.972 | 331.7 | 558.0 | 0.951 | 2.993 | 9.29 | 0.443 | 72.5 | 338.8 | 15.8 | 0.251 |
| 4-1260 | 4-1940 | 0.296 | 182.5 | 10.7 | 2.63 | 1.230 | 100.6 | 0.526 | 1.988 | 328.9 | 559.2 | 0.943 | 3.034 | 8.73 | 0.444 | 71.0 | 341.2 | 14.4 | 0.256 |
| 4-1260 | 4-1960 | 0.314 | 186.6 | 11.4 | 3.38 | 1.232 | 101.7 | 0.535 | 2.004 | 326.1 | 560.3 | 0.933 | 3.076 | 8.27 | 0.445 | 69.6 | 343.7 | 13.3 | 0.261 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1260 | 4-1980 | 0.333 | 190.3 | 11.7 | 4.05 | 1.234 | 102.8 | 0.544 | 2.021 | 323.2 | 561.3 | 0.922 | 3.119 | 7.90 | 0.446 | 68.2 | 346.4 | 12.3 | 0.267 |
| 4-1260 | 4-2000 | 0.353 | 193.6 | 11.6 | 4.66 | 1.235 | 103.9 | 0.553 | 2.037 | 320.3 | 562.3 | 0.910 | 3.163 | 7.60 | 0.447 | 66.8 | 349.2 | 11.4 | 0.274 |
| 4-1270 | 4-1390 | 0.634 | 157.4 | 36.4 | 9.58 | 1.608 | 91.8 | 1.557 | -1.775 | 357.1 | 450.5 | 0.989 | --- | -5.18 | 1.160 | 147.6 | 350.9 | -3.3 | 0.987 |
| 4-1270 | 4-1410 | 0.522 | 155.9 | 42.2 | 10.03 | 1.486 | 90.4 | 1.185 | -5.345 | 359.2 | 457.5 | 0.989 | --- | -5.23 | 0.984 | 144.3 | 352.2 | -3.7 | 0.806 |
| 4-1270 | 4-1430 | 0.451 | 153.4 | 48.4 | 10.50 | 1.404 | 89.2 | 0.950 | 19.647 | 1.7 | 105.0 | --- | --- | -5.31 | 0.855 | 140.6 | 353.3 | -4.3 | 0.669 |
| 4-1270 | 4-1450 | 0.407 | 150.0 | 54.4 | 10.99 | 1.347 | 88.0 | 0.794 | 4.805 | 4.5 | 112.8 | --- | --- | -5.45 | 0.757 | 136.6 | 354.1 | -5.0 | 0.562 |
| 4-1270 | 4-1470 | 0.382 | 146.0 | 59.8 | 11.50 | 1.306 | 87.1 | 0.690 | 3.177 | 7.2 | 120.5 | --- | --- | -5.63 | 0.683 | 132.4 | 354.6 | -6.0 | 0.476 |
| 4-1270 | 4-1490 | 0.369 | 141.8 | 64.5 | 12.05 | 1.278 | 86.3 | 0.618 | 2.573 | 9.7 | 127.9 | --- | --- | -5.87 | 0.625 | 128.1 | 354.7 | -7.1 | 0.407 |
| 4-1270 | 4-1510 | 0.364 | 138.0 | 68.4 | 12.66 | 1.258 | 85.7 | 0.568 | 2.271 | 11.9 | 135.0 | --- | --- | -6.18 | 0.581 | 123.9 | 354.1 | -8.5 | 0.352 |
| 4-1270 | 4-1530 | 0.364 | 135.2 | 71.8 | 13.33 | 1.243 | 85.3 | 0.533 | 2.098 | 13.5 | 141.5 | --- | --- | -6.57 | 0.547 | 119.6 | 353.0 | -10.2 | 0.307 |
| 4-1270 | 4-1550 | 0.369 | 133.9 | 74.9 | 14.10 | 1.233 | 85.1 | 0.509 | 1.991 | 14.6 | 147.5 | --- | --- | -7.07 | 0.521 | 115.6 | 351.2 | -12.3 | 0.272 |
| 4-1270 | 4-1570 | 0.377 | 134.9 | 77.7 | 14.99 | 1.225 | 85.0 | 0.492 | 1.923 | 15.2 | 153.0 | --- | --- | -7.70 | 0.501 | 111.7 | 348.7 | -14.7 | 0.246 |
| 4-1270 | 4-1590 | 0.390 | 139.8 | 80.5 | 16.05 | 1.221 | 85.0 | 0.480 | 1.880 | 15.4 | 157.9 | --- | --- | -8.52 | 0.486 | 108.0 | 345.7 | -17.6 | 0.227 |
| 4-1270 | 4-1610 | 0.407 | 152.2 | 83.1 | 17.36 | 1.217 | 85.2 | 0.472 | 1.852 | 15.0 | 162.3 | --- | --- | -9.59 | 0.474 | 104.6 | 342.2 | -20.8 | 0.215 |
| 4-1270 | 4-1630 | 0.432 | 182.7 | 85.1 | 19.05 | 1.215 | 85.4 | 0.467 | 1.836 | 14.4 | 166.3 | --- | --- | -11.04 | 0.465 | 101.4 | 338.7 | -24.5 | 0.211 |
| 4-1270 | 4-1650 | 0.467 | 231.0 | 84.6 | 21.31 | 1.214 | 85.8 | 0.463 | 1.828 | 13.4 | 169.9 | --- | --- | -13.09 | 0.459 | 98.5 | 335.4 | -28.6 | 0.215 |
| 4-1270 | 4-1670 | 0.520 | 261.4 | 81.0 | 24.57 | 1.214 | 86.2 | 0.462 | 1.826 | 12.2 | 173.2 | --- | --- | -16.13 | 0.454 | 95.7 | 332.6 | -33.2 | 0.229 |
| 4-1270 | 4-1690 | 0.608 | 277.4 | 75.3 | 29.67 | 1.214 | 86.6 | 0.462 | 1.828 | 10.8 | 176.3 | --- | --- | -21.02 | 0.450 | 93.2 | 331.0 | -38.5 | 0.259 |
| 4-1270 | 4-1710 | 0.766 | 289.0 | 66.9 | 38.77 | 1.215 | 87.0 | 0.463 | 1.834 | 9.5 | 179.0 | --- | --- | -29.90 | 0.448 | 90.8 | 331.2 | -43.7 | 0.323 |
| 4-1270 | 4-1730 | 1.095 | 300.1 | 53.1 | 57.93 | 1.216 | 87.3 | 0.465 | 1.842 | 8.6 | 181.7 | --- | 2.699 | -48.86 | 0.446 | 88.5 | 334.9 | -45.8 | 0.468 |
| 4-1270 | 4-1770 | 0.797 | 75.7 | -69.6 | -40.54 | 1.219 | 90.4 | 0.469 | 1.864 | 358.7 | 545.4 | 0.989 | 2.739 | 50.02 | 0.443 | 85.3 | 339.4 | 45.4 | 0.476 |
| 4-1270 | 4-1790 | 0.459 | 112.7 | -54.7 | -21.16 | 1.220 | 90.8 | 0.473 | 1.877 | 357.4 | 547.5 | 0.989 | 2.765 | 30.83 | 0.443 | 83.3 | 334.8 | 42.4 | 0.334 |
| 4-1270 | 4-1810 | 0.314 | 128.8 | -37.9 | -11.99 | 1.222 | 91.5 | 0.477 | 1.891 | 355.4 | 549.4 | 0.988 | 2.794 | 21.86 | 0.443 | 81.6 | 332.7 | 36.1 | 0.277 |
| 4-1270 | 4-1830 | 0.253 | 140.3 | -21.9 | -6.86 | 1.224 | 92.2 | 0.482 | 1.906 | 353.1 | 551.2 | 0.987 | 2.825 | 16.92 | 0.443 | 79.9 | 332.4 | 30.1 | 0.253 |
| 4-1270 | 4-1850 | 0.230 | 150.0 | -8.6 | -3.60 | 1.225 | 93.0 | 0.487 | 1.921 | 350.7 | 552.8 | 0.985 | 2.857 | 13.85 | 0.443 | 78.4 | 333.0 | 25.4 | 0.242 |
| 4-1270 | 4-1870 | 0.226 | 158.6 | 1.2 | -1.33 | 1.227 | 93.9 | 0.493 | 1.937 | 348.1 | 554.3 | 0.982 | 2.891 | 11.79 | 0.443 | 76.9 | 334.3 | 21.6 | 0.239 |
| 4-1270 | 4-1890 | 0.232 | 166.2 | 7.9 | 0.34 | 1.229 | 94.8 | 0.499 | 1.953 | 345.5 | 555.7 | 0.979 | 2.926 | 10.31 | 0.444 | 75.4 | 336.0 | 18.7 | 0.239 |
| 4-1270 | 4-1910 | 0.242 | 173.0 | 12.1 | 1.64 | 1.230 | 95.8 | 0.505 | 1.969 | 342.8 | 557.0 | 0.974 | 2.963 | 9.21 | 0.444 | 74.0 | 338.0 | 16.4 | 0.242 |
| 4-1270 | 4-1930 | 0.256 | 179.0 | 14.6 | 2.68 | 1.232 | 96.7 | 0.512 | 1.985 | 340.0 | 558.3 | 0.969 | 3.001 | 8.37 | 0.445 | 72.7 | 340.3 | 14.6 | 0.245 |
| 4-1270 | 4-1950 | 0.270 | 184.4 | 15.9 | 3.55 | 1.234 | 97.7 | 0.519 | 2.002 | 337.2 | 559.4 | 0.963 | 3.040 | 7.71 | 0.446 | 71.3 | 342.7 | 13.1 | 0.249 |
| 4-1270 | 4-1970 | 0.286 | 189.1 | 16.4 | 4.29 | 1.235 | 98.8 | 0.526 | 2.018 | 334.4 | 560.5 | 0.956 | 3.080 | 7.18 | 0.447 | 70.0 | 345.3 | 11.9 | 0.254 |
| 4-1270 | 4-1990 | 0.303 | 193.4 | 16.3 | 4.93 | 1.237 | 99.8 | 0.534 | 2.035 | 331.5 | 561.5 | 0.948 | 3.122 | 6.75 | 0.448 | 68.7 | 348.0 | 10.9 | 0.259 |
| 4-1270 | 4-2010 | 0.321 | 197.2 | 15.8 | 5.50 | 1.239 | 100.9 | 0.543 | 2.051 | 328.6 | 562.5 | 0.938 | 3.164 | 6.40 | 0.449 | 67.4 | 350.8 | 10.1 | 0.265 |
| 4-1280 | 4-1400 | 0.604 | 151.2 | 39.8 | 9.78 | 1.568 | 86.0 | 1.426 | -2.309 | 6.8 | 92.7 | --- | --- | -3.48 | 1.102 | 146.8 | 352.3 | -2.3 | 0.928 |
| 4-1280 | 4-1420 | 0.506 | 147.4 | 45.3 | 10.08 | 1.457 | 85.0 | 1.094 | 10.383 | 9.5 | 100.4 | --- | --- | -3.47 | 0.937 | 143.3 | 353.3 | -2.6 | 0.757 |
| 4-1280 | 4-1440 | 0.447 | 142.3 | 50.6 | 10.39 | 1.382 | 84.1 | 0.886 | 8.586 | 12.6 | 108.4 | --- | --- | -3.49 | 0.816 | 139.4 | 354.2 | -3.0 | 0.628 |
| 4-1280 | 4-1460 | 0.411 | 136.5 | 55.1 | 10.69 | 1.330 | 83.3 | 0.751 | 3.895 | 15.7 | 116.6 | --- | --- | -3.54 | 0.724 | 135.3 | 354.7 | -3.4 | 0.527 |
| 4-1280 | 4-1480 | 0.391 | 130.5 | 58.8 | 11.01 | 1.294 | 82.6 | 0.660 | 2.844 | 18.7 | 124.5 | --- | --- | -3.61 | 0.655 | 131.0 | 354.8 | -4.0 | 0.446 |
| 4-1280 | 4-1500 | 0.379 | 125.0 | 61.6 | 11.35 | 1.268 | 82.1 | 0.599 | 2.399 | 21.3 | 132.0 | --- | --- | -3.72 | 0.602 | 126.6 | 354.5 | -4.7 | 0.381 |
| 4-1280 | 4-1520 | 0.373 | 120.5 | 63.9 | 11.70 | 1.250 | 81.7 | 0.557 | 2.164 | 23.3 | 139.0 | --- | --- | -3.86 | 0.561 | 122.2 | 353.6 | -5.6 | 0.329 |
| 4-1280 | 4-1540 | 0.370 | 117.3 | 65.8 | 12.09 | 1.238 | 81.5 | 0.528 | 2.025 | 24.7 | 145.3 | --- | --- | -4.04 | 0.530 | 118.0 | 352.0 | -6.6 | 0.288 |
| 4-1280 | 4-1560 | 0.370 | 115.3 | 67.6 | 12.51 | 1.229 | 81.5 | 0.508 | 1.940 | 25.5 | 151.0 | --- | --- | -4.27 | 0.507 | 113.9 | 349.9 | -7.8 | 0.255 |
| 4-1280 | 4-1580 | 0.371 | 114.7 | 69.4 | 12.98 | 1.223 | 81.5 | 0.494 | 1.885 | 25.8 | 156.1 | --- | --- | -4.56 | 0.489 | 110.0 | 347.1 | -9.1 | 0.230 |
| 4-1280 | 4-1600 | 0.374 | 115.4 | 71.3 | 13.53 | 1.219 | 81.7 | 0.484 | 1.851 | 25.6 | 160.7 | --- | --- | -4.93 | 0.476 | 106.4 | 343.9 | -10.7 | 0.211 |
| 4-1280 | 4-1620 | 0.379 | 117.7 | 73.4 | 14.16 | 1.216 | 82.0 | 0.477 | 1.831 | 24.9 | 164.8 | --- | --- | -5.40 | 0.466 | 103.0 | 340.5 | -12.4 | 0.199 |
| 4-1280 | 4-1640 | 0.386 | 121.7 | 75.6 | 14.93 | 1.215 | 82.4 | 0.473 | 1.821 | 23.9 | 168.5 | --- | --- | -6.01 | 0.458 | 99.9 | 337.1 | -14.3 | 0.192 |
| 4-1280 | 4-1660 | 0.396 | 128.4 | 78.1 | 15.89 | 1.215 | 82.8 | 0.470 | 1.817 | 22.6 | 171.9 | --- | --- | -6.81 | 0.453 | 97.1 | 334.0 | -16.4 | 0.189 |
| 4-1280 | 4-1680 | 0.411 | 139.8 | 80.8 | 17.14 | 1.215 | 83.3 | 0.469 | 1.818 | 21.0 | 174.9 | --- | --- | -7.91 | 0.449 | 94.4 | 331.4 | -18.9 | 0.190 |
| 4-1280 | 4-1700 | 0.435 | 162.5 | 83.4 | 18.86 | 1.216 | 83.9 | 0.468 | 1.823 | 19.3 | 177.7 | --- | --- | -9.49 | 0.446 | 92.0 | 329.5 | -22.0 | 0.196 |
| 4-1280 | 4-1720 | 0.474 | 209.7 | 84.5 | 21.40 | 1.217 | 84.5 | 0.469 | 1.831 | 17.3 | 180.2 | --- | 2.690 | -11.89 | 0.444 | 89.8 | 328.5 | -26.0 | 0.208 |
| 4-1280 | 4-1740 | 0.543 | 258.2 | 81.3 | 25.60 | 1.218 | 85.1 | 0.470 | 1.842 | 15.3 | 182.6 | --- | 2.708 | -15.94 | 0.443 | 87.7 | 328.6 | -31.6 | 0.232 |
| 4-1280 | 4-1760 | 0.684 | 285.1 | 73.4 | 33.82 | 1.219 | 85.7 | 0.472 | 1.854 | 13.3 | 184.8 | --- | 2.729 | -24.03 | 0.442 | 85.8 | 330.8 | -39.1 | 0.285 |
| 4-1280 | 4-1780 | 1.055 | 304.9 | 57.5 | 55.31 | 1.221 | 86.2 | 0.475 | 1.867 | 11.7 | 186.8 | --- | 2.754 | -45.39 | 0.442 | 83.9 | 338.5 | -45.1 | 0.442 |
| 4-1280 | 4-1820 | 0.504 | 105.8 | -55.7 | -23.63 | 1.224 | 88.8 | 0.480 | 1.897 | 3.8 | 190.1 | --- | 2.807 | 33.81 | 0.442 | 81.0 | 338.5 | 42.7 | 0.358 |
| 4-1280 | 4-1840 | 0.289 | 130.4 | -31.3 | -9.99 | 1.226 | 89.4 | 0.484 | 1.913 | 1.7 | 191.8 | --- | 2.838 | 20.30 | 0.442 | 79.4 | 334.7 | 33.6 | 0.272 |
| 4-1280 | 4-1860 | 0.229 | 144.4 | -9.1 | -3.99 | 1.228 | 90.3 | 0.488 | 1.929 | 359.2 | 553.3 | 0.987 | 2.870 | 14.44 | 0.443 | 77.9 | 334.5 | 26.0 | 0.246 |
| 4-1280 | 4-1880 | 0.217 | 155.4 | 6.2 | -0.66 | 1.230 | 91.1 | 0.493 | 1.945 | 356.6 | 554.7 | 0.987 | 2.904 | 11.24 | 0.443 | 76.5 | 335.6 | 20.7 | 0.237 |
| 4-1280 | 4-1900 | 0.222 | 164.6 | 15.3 | 1.46 | 1.231 | 92.0 | 0.498 | 1.962 | 353.9 | 556.1 | 0.985 | 2.939 | 9.24 | 0.444 | 75.2 | 337.2 | 17.0 | 0.236 |
| 4-1280 | 4-1920 | 0.232 | 172.7 | 20.4 | 2.93 | 1.233 | 92.9 | 0.503 | 1.979 | 351.2 | 557.4 | 0.983 | 2.975 | 7.89 | 0.445 | 73.9 | 339.3 | 14.3 | 0.237 |
| 4-1280 | 4-1940 | 0.244 | 179.7 | 22.9 | 4.03 | 1.235 | 93.9 | 0.509 | 1.996 | 348.4 | 558.6 | 0.980 | 3.011 | 6.93 | 0.446 | 72.6 | 341.6 | 12.4 | 0.240 |
| 4-1280 | 4-1960 | 0.257 | 185.8 | 23.9 | 4.89 | 1.237 | 94.9 | 0.515 | 2.013 | 345.6 | 559.7 | 0.977 | 3.049 | 6.20 | 0.447 | 71.4 | 344.1 | 10.8 | 0.244 |
| 4-1280 | 4-1980 | 0.271 | 191.2 | 23.9 | 5.58 | 1.238 | 95.9 | 0.521 | 2.030 | 342.7 | 560.8 | 0.972 | 3.088 | 5.64 | 0.448 | 70.2 | 346.7 | 9.6 | 0.248 |
| 4-1280 | 4-2000 | 0.285 | 195.9 | 23.3 | 6.16 | 1.240 | 96.9 | 0.528 | 2.047 | 339.8 | 561.8 | 0.966 | 3.128 | 5.20 | 0.450 | 69.0 | 349.4 | 8.7 | 0.253 |
| 4-1280 | 4-2020 | 0.300 | 200.2 | 22.3 | 6.65 | 1.242 | 98.0 | 0.535 | 2.064 | 336.9 | 562.8 | 0.960 | 3.168 | 4.85 | 0.451 | 67.8 | 352.2 | 7.9 | 0.258 |
| 4-1290 | 4-1410 | 0.607 | 142.7 | 42.3 | 10.13 | 1.527 | 79.9 | 1.291 | -3.299 | 17.9 | 96.3 | --- | --- | -1.70 | 1.042 | 146.2 | 353.0 | -1.1 | 0.871 |
| 4-1290 | 4-1430 | 0.519 | 137.0 | 46.7 | 10.28 | 1.426 | 79.4 | 1.004 | 19.274 | 21.2 | 104.6 | --- | --- | -1.68 | 0.887 | 142.5 | 353.8 | -1.3 | 0.710 |
| 4-1290 | 4-1450 | 0.469 | 130.6 | 50.4 | 10.43 | 1.359 | 78.8 | 0.827 | 5.445 | 24.8 | 113.2 | --- | --- | -1.67 | 0.773 | 138.4 | 354.3 | -1.5 | 0.588 |
| 4-1290 | 4-1470 | 0.439 | 124.4 | 53.1 | 10.58 | 1.312 | 78.3 | 0.712 | 3.255 | 28.3 | 121.7 | --- | --- | -1.67 | 0.688 | 134.1 | 354.5 | -1.7 | 0.493 |
| 4-1290 | 4-1490 | 0.421 | 119.0 | 55.1 | 10.72 | 1.280 | 77.9 | 0.637 | 2.562 | 31.3 | 129.7 | --- | --- | -1.68 | 0.624 | 129.6 | 354.2 | -1.9 | 0.418 |
| 4-1290 | 4-1510 | 0.410 | 114.7 | 56.5 | 10.87 | 1.258 | 77.6 | 0.587 | 2.237 | 33.7 | 137.1 | --- | --- | -1.71 | 0.575 | 125.0 | 353.4 | -2.3 | 0.358 |
| 4-1290 | 4-1530 | 0.402 | 111.7 | 57.6 | 11.03 | 1.242 | 77.5 | 0.553 | 2.058 | 35.5 | 143.7 | --- | --- | -1.76 | 0.538 | 120.5 | 352.0 | -2.6 | 0.310 |
| 4-1290 | 4-1550 | 0.396 | 109.8 | 58.7 | 11.19 | 1.232 | 77.5 | 0.529 | 1.951 | 36.5 | 149.7 | --- | --- | -1.81 | 0.511 | 116.2 | 350.0 | -3.1 | 0.272 |
| 4-1290 | 4-1570 | 0.392 | 109.0 | 59.6 | 11.36 | 1.224 | 77.7 | 0.513 | 1.885 | 37.0 | 155.0 | --- | --- | -1.89 | 0.490 | 112.0 | 347.4 | -3.5 | 0.243 |
| 4-1290 | 4-1590 | 0.388 | 109.1 | 60.7 | 11.55 | 1.219 | 77.9 | 0.501 | 1.844 | 36.8 | 159.7 | --- | --- | -1.98 | 0.475 | 108.2 | 344.3 | -4.1 | 0.220 |
| 4-1290 | 4-1610 | 0.384 | 110.1 | 61.8 | 11.76 | 1.216 | 78.2 | 0.493 | 1.819 | 36.2 | 163.9 | --- | --- | -2.11 | 0.464 | 104.6 | 341.0 | -4.6 | 0.204 |
| 4-1290 | 4-1630 | 0.381 | 111.8 | 63.0 | 12.00 | 1.215 | 78.6 | 0.487 | 1.806 | 35.2 | 167.6 | --- | --- | -2.26 | 0.455 | 101.3 | 337.6 | -5.2 | 0.193 |
| 4-1290 | 4-1650 | 0.379 | 114.3 | 64.3 | 12.27 | 1.214 | 79.1 | 0.483 | 1.801 | 33.9 | 171.0 | --- | --- | -2.45 | 0.450 | 98.2 | 334.5 | -5.9 | 0.186 |
| 4-1290 | 4-1670 | 0.377 | 117.7 | 65.7 | 12.59 | 1.214 | 79.7 | 0.480 | 1.802 | 32.3 | 174.0 | --- | --- | -2.69 | 0.446 | 95.5 | 331.8 | -6.5 | 0.183 |
| 4-1290 | 4-1690 | 0.376 | 121.9 | 67.3 | 12.99 | 1.215 | 80.3 | 0.479 | 1.807 | 30.4 | 176.8 | --- | --- | -3.01 | 0.443 | 92.9 | 329.6 | -7.3 | 0.183 |
| 4-1290 | 4-1710 | 0.377 | 127.2 | 69.0 | 13.48 | 1.216 | 80.9 | 0.478 | 1.815 | 28.4 | 179.3 | --- | --- | -3.43 | 0.441 | 90.6 | 328.1 | -8.3 | 0.184 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1290 | 4-1730 | 0.380 | 134.0 | 70.9 | 14.13 | 1.217 | 81.6 | 0.478 | 1.826 | 26.2 | 181.6 | --- | 2.699 | -4.02 | 0.440 | 88.5 | 327.2 | -9.5 | 0.187 |
| 4-1290 | 4-1750 | 0.388 | 142.7 | 73.1 | 15.04 | 1.219 | 82.3 | 0.479 | 1.838 | 23.9 | 183.8 | --- | 2.718 | -4.86 | 0.440 | 86.5 | 326.9 | -11.2 | 0.192 |
| 4-1290 | 4-1770 | 0.404 | 155.2 | 75.7 | 16.42 | 1.220 | 83.1 | 0.480 | 1.852 | 21.5 | 185.8 | --- | 2.741 | -6.18 | 0.439 | 84.7 | 327.2 | -13.7 | 0.199 |
| 4-1290 | 4-1790 | 0.437 | 176.8 | 78.8 | 18.81 | 1.222 | 83.9 | 0.482 | 1.867 | 19.0 | 187.6 | --- | 2.767 | -8.50 | 0.440 | 83.0 | 328.1 | -17.9 | 0.209 |
| 4-1290 | 4-1810 | 0.520 | 227.9 | 80.9 | 23.96 | 1.224 | 84.6 | 0.484 | 1.883 | 16.5 | 189.4 | --- | 2.794 | -13.59 | 0.440 | 81.4 | 330.3 | -26.0 | 0.233 |
| 4-1290 | 4-1830 | 0.843 | 298.1 | 68.8 | 42.64 | 1.226 | 85.4 | 0.486 | 1.900 | 14.1 | 191.0 | --- | 2.824 | -32.21 | 0.441 | 79.9 | 338.5 | -41.5 | 0.349 |
| 4-1290 | 4-1850 | 0.728 | 82.0 | -61.0 | -36.18 | 1.228 | 86.7 | 0.488 | 1.917 | 10.1 | 192.4 | --- | 2.853 | 46.68 | 0.441 | 78.7 | 346.9 | 44.1 | 0.453 |
| 4-1290 | 4-1870 | 0.249 | 137.1 | -14.0 | -5.65 | 1.230 | 87.4 | 0.492 | 1.934 | 7.9 | 193.9 | --- | 2.886 | 16.21 | 0.442 | 77.3 | 336.2 | 28.0 | 0.257 |
| 4-1290 | 4-1890 | 0.222 | 153.7 | 16.8 | 0.99 | 1.232 | 88.3 | 0.496 | 1.952 | 5.2 | 195.3 | --- | 2.919 | 9.63 | 0.443 | 76.0 | 336.5 | 17.9 | 0.234 |
| 4-1290 | 4-1910 | 0.233 | 164.9 | 28.8 | 3.80 | 1.234 | 89.2 | 0.500 | 1.969 | 2.5 | 196.5 | --- | 2.954 | 6.88 | 0.444 | 74.7 | 338.2 | 12.8 | 0.231 |
| 4-1290 | 4-1930 | 0.245 | 173.8 | 33.6 | 5.36 | 1.235 | 90.1 | 0.504 | 1.987 | 359.7 | 557.8 | 0.986 | 2.989 | 5.38 | 0.445 | 73.5 | 340.4 | 9.9 | 0.233 |
| 4-1290 | 4-1950 | 0.255 | 181.3 | 35.3 | 6.36 | 1.237 | 91.1 | 0.509 | 2.005 | 356.9 | 558.9 | 0.985 | 3.025 | 4.44 | 0.447 | 72.4 | 342.8 | 8.0 | 0.236 |
| 4-1290 | 4-1970 | 0.265 | 187.8 | 35.3 | 7.06 | 1.239 | 92.0 | 0.514 | 2.023 | 354.0 | 560.0 | 0.984 | 3.061 | 3.80 | 0.448 | 71.2 | 345.3 | 6.7 | 0.239 |
| 4-1290 | 4-1990 | 0.275 | 193.4 | 34.4 | 7.58 | 1.241 | 93.0 | 0.519 | 2.040 | 351.1 | 561.1 | 0.982 | 3.099 | 3.34 | 0.449 | 70.1 | 348.0 | 5.8 | 0.244 |
| 4-1290 | 4-2010 | 0.285 | 198.4 | 33.0 | 7.99 | 1.242 | 94.0 | 0.524 | 2.058 | 348.3 | 562.1 | 0.979 | 3.137 | 2.99 | 0.451 | 69.0 | 350.8 | 5.1 | 0.248 |
| 4-1290 | 4-2030 | 0.295 | 202.9 | 31.2 | 8.32 | 1.244 | 95.1 | 0.530 | 2.075 | 345.4 | 563.1 | 0.974 | 3.176 | 2.73 | 0.452 | 67.9 | 353.7 | 4.5 | 0.252 |
| 4-1300 | 4-1420 | 0.632 | 133.8 | 43.1 | 10.67 | 1.486 | 73.6 | 1.160 | -5.695 | 30.6 | 101.5 | --- | --- | 0.21 | 0.979 | 145.9 | 353.1 | 0.1 | 0.817 |
| 4-1300 | 4-1440 | 0.559 | 127.6 | 46.1 | 10.65 | 1.395 | 73.4 | 0.922 | 11.586 | 34.6 | 110.5 | --- | --- | 0.20 | 0.834 | 141.9 | 353.5 | 0.2 | 0.666 |
| 4-1300 | 4-1460 | 0.516 | 121.8 | 48.1 | 10.64 | 1.334 | 73.2 | 0.776 | 3.980 | 38.6 | 119.5 | --- | --- | 0.20 | 0.728 | 137.6 | 353.6 | 0.2 | 0.552 |
| 4-1300 | 4-1480 | 0.488 | 116.9 | 49.5 | 10.62 | 1.294 | 73.1 | 0.684 | 2.788 | 42.1 | 128.0 | --- | --- | 0.20 | 0.649 | 133.0 | 353.3 | 0.2 | 0.464 |
| 4-1300 | 4-1500 | 0.470 | 113.1 | 50.4 | 10.60 | 1.266 | 73.0 | 0.624 | 2.324 | 45.0 | 135.8 | --- | --- | 0.20 | 0.590 | 128.2 | 352.5 | 0.2 | 0.394 |
| 4-1300 | 4-1520 | 0.457 | 110.6 | 51.0 | 10.59 | 1.246 | 73.0 | 0.584 | 2.089 | 47.0 | 142.8 | --- | --- | 0.20 | 0.546 | 123.4 | 351.2 | 0.3 | 0.339 |
| 4-1300 | 4-1540 | 0.447 | 109.0 | 51.5 | 10.57 | 1.233 | 73.1 | 0.557 | 1.956 | 48.3 | 149.0 | --- | --- | 0.20 | 0.513 | 118.8 | 349.3 | 0.3 | 0.296 |
| 4-1300 | 4-1560 | 0.438 | 108.3 | 52.0 | 10.55 | 1.224 | 73.4 | 0.538 | 1.876 | 48.8 | 154.4 | --- | --- | 0.20 | 0.489 | 114.3 | 346.8 | 0.3 | 0.262 |
| 4-1300 | 4-1580 | 0.430 | 108.3 | 52.4 | 10.53 | 1.219 | 73.7 | 0.525 | 1.828 | 48.7 | 159.2 | --- | --- | 0.21 | 0.471 | 110.1 | 343.9 | 0.4 | 0.236 |
| 4-1300 | 4-1600 | 0.422 | 109.0 | 52.9 | 10.51 | 1.215 | 74.1 | 0.515 | 1.799 | 48.1 | 163.4 | --- | --- | 0.22 | 0.459 | 106.2 | 340.6 | 0.4 | 0.217 |
| 4-1300 | 4-1620 | 0.414 | 110.2 | 53.4 | 10.49 | 1.213 | 74.6 | 0.507 | 1.784 | 47.1 | 167.2 | --- | --- | 0.23 | 0.450 | 102.6 | 337.4 | 0.5 | 0.204 |
| 4-1300 | 4-1640 | 0.406 | 111.9 | 53.9 | 10.47 | 1.212 | 75.1 | 0.502 | 1.778 | 45.7 | 170.5 | --- | --- | 0.24 | 0.444 | 99.3 | 334.3 | 0.5 | 0.195 |
| 4-1300 | 4-1660 | 0.398 | 114.0 | 54.5 | 10.44 | 1.212 | 75.7 | 0.498 | 1.778 | 44.0 | 173.5 | --- | --- | 0.25 | 0.439 | 96.3 | 331.5 | 0.6 | 0.190 |
| 4-1300 | 4-1680 | 0.389 | 116.6 | 55.0 | 10.41 | 1.213 | 76.3 | 0.495 | 1.783 | 42.1 | 176.3 | --- | --- | 0.27 | 0.437 | 93.6 | 329.3 | 0.6 | 0.188 |
| 4-1300 | 4-1700 | 0.381 | 119.6 | 55.5 | 10.38 | 1.214 | 77.0 | 0.493 | 1.792 | 40.0 | 178.8 | --- | --- | 0.30 | 0.435 | 91.2 | 327.7 | 0.7 | 0.188 |
| 4-1300 | 4-1720 | 0.372 | 123.0 | 56.0 | 10.34 | 1.215 | 77.8 | 0.492 | 1.803 | 37.8 | 181.0 | --- | 2.690 | 0.33 | 0.435 | 89.0 | 326.7 | 0.8 | 0.189 |
| 4-1300 | 4-1740 | 0.363 | 126.7 | 56.3 | 10.29 | 1.217 | 78.5 | 0.491 | 1.817 | 35.4 | 183.2 | --- | 2.709 | 0.37 | 0.435 | 87.0 | 326.3 | 0.8 | 0.192 |
| 4-1300 | 4-1760 | 0.355 | 130.9 | 56.6 | 10.23 | 1.219 | 79.3 | 0.491 | 1.832 | 32.9 | 185.1 | --- | 2.731 | 0.42 | 0.435 | 85.1 | 326.3 | 0.9 | 0.195 |
| 4-1300 | 4-1780 | 0.346 | 135.4 | 56.6 | 10.15 | 1.221 | 80.1 | 0.491 | 1.848 | 30.3 | 186.9 | --- | 2.756 | 0.49 | 0.436 | 83.4 | 326.9 | 1.1 | 0.198 |
| 4-1300 | 4-1800 | 0.337 | 140.2 | 56.5 | 10.04 | 1.223 | 80.9 | 0.492 | 1.865 | 27.7 | 188.6 | --- | 2.782 | 0.60 | 0.436 | 81.8 | 327.8 | 1.3 | 0.202 |
| 4-1300 | 4-1820 | 0.328 | 145.2 | 55.9 | 9.86 | 1.225 | 81.8 | 0.493 | 1.882 | 25.0 | 190.2 | --- | 2.811 | 0.77 | 0.437 | 80.3 | 329.1 | 1.6 | 0.206 |
| 4-1300 | 4-1840 | 0.318 | 150.1 | 54.8 | 9.55 | 1.227 | 82.7 | 0.495 | 1.900 | 22.3 | 191.8 | --- | 2.841 | 1.07 | 0.439 | 78.9 | 330.7 | 2.2 | 0.210 |
| 4-1300 | 4-1860 | 0.304 | 154.3 | 52.0 | 8.83 | 1.229 | 83.6 | 0.497 | 1.919 | 19.5 | 193.2 | --- | 2.872 | 1.78 | 0.440 | 77.6 | 332.5 | 3.6 | 0.215 |
| 4-1300 | 4-1880 | 0.266 | 152.9 | 39.0 | 5.44 | 1.231 | 84.5 | 0.499 | 1.937 | 16.7 | 194.5 | --- | 2.904 | 5.17 | 0.441 | 76.4 | 334.8 | 10.0 | 0.223 |
| 4-1300 | 4-1900 | 0.398 | 188.1 | 68.2 | 16.39 | 1.233 | 85.4 | 0.502 | 1.956 | 13.9 | 195.8 | --- | 2.937 | -5.79 | 0.442 | 75.2 | 337.1 | -10.9 | 0.228 |
| 4-1300 | 4-1920 | 0.337 | 181.2 | 59.0 | 12.47 | 1.235 | 86.3 | 0.505 | 1.974 | 11.0 | 197.0 | --- | 2.971 | -1.88 | 0.444 | 74.0 | 339.0 | -3.5 | 0.227 |
| 4-1300 | 4-1940 | 0.324 | 184.7 | 55.5 | 11.72 | 1.237 | 87.2 | 0.508 | 1.993 | 8.2 | 198.2 | --- | 3.005 | -1.13 | 0.445 | 72.9 | 341.5 | -2.1 | 0.231 |
| 4-1300 | 4-1960 | 0.318 | 189.1 | 52.8 | 11.39 | 1.239 | 88.2 | 0.511 | 2.012 | 5.3 | 199.3 | --- | 3.040 | -0.81 | 0.447 | 71.9 | 344.1 | -1.5 | 0.234 |
| 4-1300 | 4-1980 | 0.315 | 193.7 | 50.3 | 11.21 | 1.241 | 89.2 | 0.515 | 2.030 | 2.4 | 200.4 | --- | 3.076 | -0.64 | 0.448 | 70.8 | 346.7 | -1.1 | 0.238 |
| 4-1300 | 4-2000 | 0.314 | 198.2 | 47.6 | 11.09 | 1.242 | 90.1 | 0.519 | 2.048 | 359.6 | 561.4 | 0.984 | 3.113 | -0.53 | 0.450 | 69.8 | 349.5 | -0.9 | 0.242 |
| 4-1300 | 4-2020 | 0.315 | 202.4 | 45.0 | 11.01 | 1.244 | 91.1 | 0.524 | 2.067 | 356.7 | 562.4 | 0.984 | 3.149 | -0.45 | 0.452 | 68.8 | 352.3 | -0.8 | 0.246 |
| 4-1300 | 4-2040 | 0.317 | 206.3 | 42.2 | 10.95 | 1.246 | 92.2 | 0.529 | 2.085 | 353.8 | 563.4 | 0.982 | 3.187 | -0.40 | 0.453 | 67.8 | 355.2 | -0.7 | 0.250 |
| 4-1310 | 4-1450 | 0.623 | 121.5 | 44.0 | 11.22 | 1.363 | 67.2 | 0.856 | 5.715 | 49.6 | 118.1 | --- | --- | 2.21 | 0.779 | 141.7 | 352.3 | 1.7 | 0.627 |
| 4-1310 | 4-1470 | 0.582 | 117.1 | 45.0 | 11.02 | 1.310 | 67.4 | 0.742 | 3.145 | 53.7 | 127.1 | --- | --- | 2.15 | 0.680 | 136.9 | 352.0 | 1.9 | 0.521 |
| 4-1310 | 4-1490 | 0.554 | 113.9 | 45.5 | 10.83 | 1.274 | 67.6 | 0.670 | 2.438 | 57.0 | 135.3 | --- | --- | 2.10 | 0.608 | 132.0 | 351.1 | 2.2 | 0.439 |
| 4-1310 | 4-1510 | 0.534 | 111.7 | 45.9 | 10.65 | 1.250 | 67.9 | 0.624 | 2.124 | 59.3 | 142.6 | --- | --- | 2.07 | 0.554 | 126.9 | 349.8 | 2.4 | 0.375 |
| 4-1310 | 4-1530 | 0.518 | 110.4 | 46.1 | 10.47 | 1.234 | 68.2 | 0.593 | 1.957 | 60.7 | 148.9 | --- | --- | 2.06 | 0.515 | 121.9 | 347.9 | 2.8 | 0.325 |
| 4-1310 | 4-1550 | 0.505 | 109.8 | 46.2 | 10.29 | 1.223 | 68.6 | 0.571 | 1.861 | 61.2 | 154.4 | --- | --- | 2.06 | 0.486 | 117.0 | 345.5 | 3.1 | 0.287 |
| 4-1310 | 4-1570 | 0.493 | 109.9 | 46.3 | 10.12 | 1.216 | 69.0 | 0.556 | 1.804 | 61.2 | 159.2 | --- | --- | 2.08 | 0.465 | 112.3 | 342.7 | 3.5 | 0.257 |
| 4-1310 | 4-1590 | 0.481 | 110.5 | 46.4 | 9.94 | 1.212 | 69.5 | 0.544 | 1.771 | 60.5 | 163.4 | --- | --- | 2.11 | 0.451 | 108.0 | 339.6 | 3.8 | 0.236 |
| 4-1310 | 4-1610 | 0.469 | 111.4 | 46.5 | 9.75 | 1.210 | 70.1 | 0.535 | 1.753 | 59.4 | 167.1 | --- | --- | 2.16 | 0.441 | 104.0 | 336.4 | 4.2 | 0.220 |
| 4-1310 | 4-1630 | 0.458 | 112.8 | 46.6 | 9.56 | 1.209 | 70.7 | 0.528 | 1.746 | 58.0 | 170.4 | --- | --- | 2.23 | 0.434 | 100.4 | 333.4 | 4.5 | 0.210 |
| 4-1310 | 4-1650 | 0.446 | 114.4 | 46.6 | 9.35 | 1.209 | 71.4 | 0.523 | 1.747 | 56.2 | 173.4 | --- | --- | 2.31 | 0.430 | 97.2 | 330.8 | 4.9 | 0.203 |
| 4-1310 | 4-1670 | 0.434 | 116.3 | 46.6 | 9.13 | 1.209 | 72.1 | 0.518 | 1.752 | 54.2 | 176.0 | --- | --- | 2.42 | 0.428 | 94.3 | 328.6 | 5.2 | 0.200 |
| 4-1310 | 4-1690 | 0.421 | 118.5 | 46.5 | 8.89 | 1.211 | 72.9 | 0.515 | 1.762 | 52.1 | 178.5 | --- | --- | 2.56 | 0.421 | 91.6 | 327.0 | 5.5 | 0.199 |
| 4-1310 | 4-1710 | 0.409 | 120.9 | 46.3 | 8.62 | 1.212 | 73.6 | 0.512 | 1.774 | 49.7 | 180.7 | --- | 2.683 | 2.72 | 0.427 | 89.3 | 326.0 | 5.8 | 0.199 |
| 4-1310 | 4-1730 | 0.396 | 123.5 | 45.9 | 8.31 | 1.214 | 74.4 | 0.510 | 1.789 | 47.3 | 182.8 | --- | 2.701 | 2.93 | 0.427 | 87.1 | 325.6 | 6.2 | 0.201 |
| 4-1310 | 4-1750 | 0.382 | 126.2 | 45.3 | 7.96 | 1.216 | 75.3 | 0.508 | 1.805 | 44.7 | 184.7 | --- | 2.722 | 3.20 | 0.428 | 85.2 | 325.7 | 6.7 | 0.204 |
| 4-1310 | 4-1770 | 0.368 | 129.1 | 44.4 | 7.54 | 1.219 | 76.1 | 0.507 | 1.822 | 42.1 | 186.5 | --- | 2.746 | 3.53 | 0.429 | 83.4 | 326.2 | 7.3 | 0.207 |
| 4-1310 | 4-1790 | 0.354 | 132.0 | 43.1 | 7.02 | 1.221 | 77.0 | 0.506 | 1.840 | 39.4 | 188.1 | --- | 2.772 | 3.96 | 0.431 | 81.8 | 327.1 | 8.0 | 0.211 |
| 4-1310 | 4-1810 | 0.339 | 134.9 | 41.1 | 6.36 | 1.223 | 77.9 | 0.506 | 1.859 | 36.7 | 189.7 | --- | 2.800 | 4.54 | 0.432 | 80.3 | 328.4 | 9.0 | 0.215 |
| 4-1310 | 4-1830 | 0.323 | 137.7 | 38.2 | 5.49 | 1.225 | 78.7 | 0.506 | 1.878 | 33.9 | 191.2 | --- | 2.830 | 5.33 | 0.434 | 79.0 | 330.0 | 10.4 | 0.220 |
| 4-1310 | 4-1850 | 0.305 | 140.0 | 33.5 | 4.26 | 1.227 | 79.6 | 0.507 | 1.898 | 31.1 | 192.6 | --- | 2.860 | 6.48 | 0.436 | 77.7 | 332.0 | 12.3 | 0.225 |
| 4-1310 | 4-1870 | 0.288 | 141.3 | 25.7 | 2.36 | 1.230 | 80.5 | 0.508 | 1.918 | 28.3 | 193.9 | --- | 2.892 | 8.30 | 0.437 | 76.5 | 334.2 | 15.3 | 0.233 |
| 4-1310 | 4-1890 | 0.275 | 140.2 | 11.0 | -0.96 | 1.232 | 81.5 | 0.509 | 1.938 | 25.5 | 195.2 | --- | 2.924 | 11.55 | 0.439 | 75.3 | 337.1 | 20.2 | 0.246 |
| 4-1310 | 4-1910 | 0.311 | 132.3 | -18.5 | -8.34 | 1.234 | 82.3 | 0.511 | 1.957 | 22.8 | 196.4 | --- | 2.957 | 18.86 | 0.441 | 74.2 | 341.7 | 29.2 | 0.281 |
| 4-1310 | 4-1930 | 0.728 | 88.3 | -54.5 | -35.48 | 1.236 | 83.1 | 0.513 | 1.977 | 20.5 | 197.6 | --- | 2.992 | 45.92 | 0.443 | 73.1 | 356.7 | 42.3 | 0.452 |
| 4-1310 | 4-1950 | 1.080 | 318.3 | 66.3 | 56.04 | 1.238 | 84.7 | 0.514 | 1.997 | 15.7 | 198.6 | --- | 3.022 | -45.66 | 0.444 | 72.3 | 359.6 | -42.3 | 0.450 |
| 4-1310 | 4-1970 | 0.617 | 246.7 | 74.7 | 29.33 | 1.240 | 85.4 | 0.517 | 2.016 | 13.4 | 199.7 | --- | 3.058 | -19.03 | 0.446 | 71.2 | 349.6 | -28.6 | 0.288 |
| 4-1310 | 4-1990 | 0.490 | 220.1 | 68.9 | 22.02 | 1.242 | 86.4 | 0.520 | 2.036 | 10.7 | 200.8 | --- | 3.093 | -11.79 | 0.448 | 70.3 | 349.9 | -19.3 | 0.261 |
| 4-1310 | 4-2010 | 0.434 | 213.5 | 63.4 | 18.72 | 1.244 | 87.3 | 0.523 | 2.055 | 7.8 | 201.8 | --- | 3.129 | -8.56 | 0.450 | 69.3 | 351.9 | -14.2 | 0.255 |
| 4-1310 | 4-2030 | 0.403 | 212.4 | 58.8 | 16.83 | 1.245 | 88.3 | 0.526 | 2.074 | 5.0 | 202.8 | --- | 3.165 | -6.75 | 0.452 | 68.4 | 354.5 | -11.2 | 0.254 |
| 4-1310 | 4-2050 | 0.383 | 213.4 | 54.7 | 15.61 | 1.247 | 89.3 | 0.530 | 2.092 | 2.1 | 203.7 | --- | 3.201 | -5.59 | 0.454 | 67.5 | 357.2 | -9.2 | 0.255 |
| 4-1320 | 4-1460 | 0.704 | 118.7 | 41.4 | 12.04 | 1.332 | 60.8 | 0.813 | 3.853 | 66.1 | 127.0 | --- | --- | 4.41 | 0.722 | 141.8 | 350.2 | 3.3 | 0.596 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1320 | 4-1480 | 0.662 | 115.9 | 41.7 | 11.62 | 1.285 | 61.4 | 0.727 | 2.614 | 69.7 | 135.6 | --- | --- | 4.23 | 0.631 | 136.7 | 349.3 | 3.7 | 0.497 |
| 4-1320 | 4-1500 | 0.631 | 114.0 | 41.9 | 11.23 | 1.254 | 62.0 | 0.674 | 2.170 | 72.2 | 143.1 | --- | --- | 4.08 | 0.564 | 131.3 | 348.0 | 4.1 | 0.421 |
| 4-1320 | 4-1520 | 0.608 | 113.0 | 41.9 | 10.87 | 1.234 | 62.6 | 0.638 | 1.956 | 73.7 | 149.5 | --- | --- | 3.98 | 0.515 | 125.8 | 346.1 | 4.6 | 0.363 |
| 4-1320 | 4-1540 | 0.589 | 112.6 | 41.8 | 10.52 | 1.221 | 63.2 | 0.613 | 1.839 | 74.2 | 154.9 | --- | --- | 3.91 | 0.481 | 120.3 | 343.8 | 5.1 | 0.318 |
| 4-1320 | 4-1560 | 0.572 | 112.7 | 41.7 | 10.19 | 1.212 | 63.8 | 0.596 | 1.772 | 74.1 | 159.7 | --- | --- | 3.87 | 0.456 | 115.1 | 341.1 | 5.6 | 0.285 |
| 4-1320 | 4-1580 | 0.556 | 113.3 | 41.6 | 9.86 | 1.207 | 64.5 | 0.582 | 1.735 | 73.3 | 163.8 | --- | --- | 3.86 | 0.439 | 110.2 | 338.1 | 6.1 | 0.260 |
| 4-1320 | 4-1600 | 0.541 | 114.2 | 41.4 | 9.54 | 1.205 | 65.2 | 0.571 | 1.715 | 72.1 | 167.4 | --- | --- | 3.87 | 0.428 | 105.8 | 335.0 | 6.6 | 0.241 |
| 4-1320 | 4-1620 | 0.526 | 115.3 | 41.2 | 9.21 | 1.203 | 65.9 | 0.562 | 1.707 | 70.6 | 170.6 | --- | --- | 3.92 | 0.421 | 101.7 | 332.1 | 7.1 | 0.229 |
| 4-1320 | 4-1640 | 0.511 | 116.7 | 41.0 | 8.87 | 1.204 | 66.7 | 0.555 | 1.708 | 68.7 | 173.4 | --- | --- | 3.99 | 0.417 | 98.1 | 329.6 | 7.5 | 0.221 |
| 4-1320 | 4-1660 | 0.496 | 118.3 | 40.7 | 8.53 | 1.204 | 67.5 | 0.549 | 1.714 | 66.6 | 176.0 | --- | --- | 4.09 | 0.415 | 94.8 | 327.6 | 7.8 | 0.216 |
| 4-1320 | 4-1680 | 0.481 | 120.1 | 40.3 | 8.17 | 1.206 | 68.4 | 0.544 | 1.725 | 64.3 | 178.4 | --- | --- | 4.22 | 0.414 | 92.0 | 326.1 | 8.2 | 0.214 |
| 4-1320 | 4-1700 | 0.466 | 122.0 | 39.8 | 7.78 | 1.208 | 69.2 | 0.539 | 1.738 | 61.9 | 180.5 | --- | 2.675 | 4.39 | 0.415 | 89.4 | 325.1 | 8.6 | 0.214 |
| 4-1320 | 4-1720 | 0.451 | 124.0 | 39.2 | 7.37 | 1.210 | 70.1 | 0.535 | 1.754 | 59.4 | 182.5 | --- | 2.693 | 4.61 | 0.416 | 87.1 | 324.7 | 8.9 | 0.215 |
| 4-1320 | 4-1740 | 0.435 | 126.1 | 38.3 | 6.91 | 1.212 | 71.0 | 0.532 | 1.772 | 56.8 | 184.4 | --- | 2.714 | 4.87 | 0.418 | 85.1 | 324.8 | 9.4 | 0.217 |
| 4-1320 | 4-1760 | 0.420 | 128.2 | 37.3 | 6.40 | 1.215 | 71.9 | 0.529 | 1.790 | 54.1 | 186.1 | --- | 2.738 | 5.20 | 0.420 | 83.2 | 325.4 | 9.9 | 0.219 |
| 4-1320 | 4-1780 | 0.404 | 130.5 | 35.9 | 5.83 | 1.217 | 72.8 | 0.527 | 1.810 | 51.3 | 187.7 | --- | 2.764 | 5.60 | 0.422 | 81.6 | 326.3 | 10.6 | 0.222 |
| 4-1320 | 4-1800 | 0.388 | 132.7 | 34.1 | 5.16 | 1.220 | 73.7 | 0.525 | 1.830 | 48.5 | 189.3 | --- | 2.792 | 6.10 | 0.425 | 80.1 | 327.6 | 11.3 | 0.226 |
| 4-1320 | 4-1820 | 0.371 | 134.8 | 31.7 | 4.36 | 1.222 | 74.6 | 0.524 | 1.851 | 45.7 | 190.7 | --- | 2.821 | 6.73 | 0.427 | 78.7 | 329.2 | 12.3 | 0.230 |
| 4-1320 | 4-1840 | 0.355 | 136.8 | 28.5 | 3.39 | 1.225 | 75.6 | 0.523 | 1.872 | 42.9 | 192.1 | --- | 2.851 | 7.55 | 0.429 | 77.4 | 331.1 | 13.6 | 0.234 |
| 4-1320 | 4-1860 | 0.339 | 138.5 | 24.0 | 2.16 | 1.227 | 76.5 | 0.522 | 1.893 | 40.0 | 193.4 | --- | 2.882 | 8.63 | 0.432 | 76.2 | 333.2 | 15.2 | 0.240 |
| 4-1320 | 4-1880 | 0.324 | 139.6 | 17.8 | 0.54 | 1.230 | 77.4 | 0.522 | 1.914 | 37.2 | 194.6 | --- | 2.914 | 10.11 | 0.434 | 75.1 | 335.6 | 17.4 | 0.247 |
| 4-1320 | 4-1900 | 0.314 | 139.7 | 8.7 | -1.73 | 1.232 | 78.4 | 0.522 | 1.935 | 34.3 | 195.8 | --- | 2.946 | 12.23 | 0.436 | 74.0 | 338.4 | 20.3 | 0.256 |
| 4-1320 | 4-1920 | 0.318 | 137.8 | -4.8 | -5.15 | 1.234 | 79.3 | 0.523 | 1.956 | 31.6 | 197.0 | --- | 2.980 | 15.52 | 0.438 | 73.0 | 341.8 | 24.4 | 0.271 |
| 4-1320 | 4-1940 | 0.361 | 131.6 | -23.7 | -10.94 | 1.236 | 80.2 | 0.524 | 1.977 | 28.9 | 198.1 | --- | 3.013 | 21.16 | 0.441 | 72.0 | 346.3 | 30.3 | 0.300 |
| 4-1320 | 4-1960 | 0.520 | 114.0 | -44.4 | -22.54 | 1.238 | 81.0 | 0.526 | 1.998 | 26.4 | 199.2 | --- | 3.048 | 32.63 | 0.443 | 71.0 | 354.2 | 38.0 | 0.367 |
| 4-1320 | 4-1980 | 1.011 | 70.6 | -51.3 | -51.57 | 1.240 | 81.5 | 0.528 | 2.018 | 24.7 | 200.3 | --- | 3.085 | 61.53 | 0.445 | 70.0 | 10.5 | 41.2 | 0.559 |
| 4-1320 | 4-2000 | 1.382 | 340.4 | 60.2 | 74.61 | 1.242 | 84.3 | 0.525 | 2.039 | 16.7 | 201.0 | --- | 3.108 | -64.78 | 0.447 | 69.8 | 15.4 | -41.0 | 0.579 |
| 4-1320 | 4-2020 | 0.875 | 294.1 | 74.3 | 43.85 | 1.244 | 84.8 | 0.528 | 2.059 | 15.2 | 202.1 | --- | 3.146 | -34.16 | 0.450 | 68.8 | 3.8 | -38.4 | 0.379 |
| 4-1320 | 4-2040 | 0.661 | 251.7 | 73.2 | 31.67 | 1.246 | 85.6 | 0.531 | 2.078 | 12.7 | 203.0 | --- | 3.182 | -22.10 | 0.452 | 67.9 | 0.8 | -30.3 | 0.312 |
| 4-1320 | 4-2060 | 0.555 | 234.4 | 68.3 | 25.68 | 1.248 | 86.5 | 0.534 | 2.098 | 10.1 | 204.0 | --- | 3.217 | -16.24 | 0.454 | 67.0 | 1.5 | -24.0 | 0.288 |
| 4-1330 | 4-1470 | 0.797 | 118.7 | 38.7 | 13.18 | 1.302 | 54.1 | 0.797 | 2.957 | 83.2 | 136.6 | --- | --- | 6.90 | 0.665 | 142.5 | 347.2 | 4.9 | 0.575 |
| 4-1330 | 4-1490 | 0.751 | 117.1 | 38.7 | 12.48 | 1.261 | 55.2 | 0.735 | 2.254 | 85.8 | 144.2 | --- | --- | 6.51 | 0.580 | 136.8 | 345.9 | 5.4 | 0.482 |
| 4-1330 | 4-1510 | 0.717 | 116.2 | 38.6 | 11.85 | 1.235 | 56.1 | 0.694 | 1.963 | 87.2 | 150.5 | --- | --- | 6.20 | 0.518 | 130.8 | 344.0 | 5.9 | 0.412 |
| 4-1330 | 4-1530 | 0.689 | 116.0 | 38.4 | 11.28 | 1.218 | 57.1 | 0.666 | 1.816 | 87.7 | 155.9 | --- | --- | 5.97 | 0.475 | 124.8 | 341.8 | 6.5 | 0.360 |
| 4-1330 | 4-1550 | 0.666 | 116.3 | 38.2 | 10.75 | 1.207 | 58.0 | 0.645 | 1.736 | 87.3 | 160.5 | --- | --- | 5.79 | 0.444 | 118.9 | 339.1 | 7.1 | 0.320 |
| 4-1330 | 4-1570 | 0.645 | 116.9 | 37.9 | 10.24 | 1.201 | 58.8 | 0.629 | 1.692 | 86.4 | 164.4 | --- | --- | 5.66 | 0.424 | 113.2 | 336.3 | 7.6 | 0.290 |
| 4-1330 | 4-1590 | 0.626 | 117.7 | 37.6 | 9.76 | 1.198 | 59.8 | 0.616 | 1.670 | 85.1 | 167.9 | --- | --- | 5.58 | 0.411 | 108.1 | 333.4 | 8.1 | 0.269 |
| 4-1330 | 4-1610 | 0.607 | 118.8 | 37.2 | 9.30 | 1.196 | 60.7 | 0.605 | 1.661 | 93.3 | 170.9 | --- | --- | 5.54 | 0.403 | 103.4 | 330.7 | 8.6 | 0.254 |
| 4-1330 | 4-1630 | 0.589 | 120.1 | 36.8 | 8.84 | 1.197 | 61.6 | 0.596 | 1.662 | 81.3 | 173.6 | --- | --- | 5.54 | 0.399 | 99.2 | 328.3 | 9.0 | 0.244 |
| 4-1330 | 4-1650 | 0.572 | 121.5 | 36.4 | 8.38 | 1.198 | 62.5 | 0.588 | 1.669 | 79.1 | 176.1 | --- | --- | 5.58 | 0.398 | 95.5 | 326.4 | 9.3 | 0.237 |
| 4-1330 | 4-1670 | 0.554 | 123.0 | 35.8 | 7.92 | 1.199 | 63.5 | 0.580 | 1.680 | 76.7 | 178.4 | --- | --- | 5.66 | 0.398 | 92.3 | 325.0 | 9.7 | 0.234 |
| 4-1330 | 4-1690 | 0.537 | 124.7 | 35.2 | 7.44 | 1.202 | 64.5 | 0.574 | 1.695 | 74.2 | 180.4 | --- | 2.668 | 5.77 | 0.400 | 89.4 | 324.1 | 10.0 | 0.232 |
| 4-1330 | 4-1710 | 0.520 | 126.4 | 34.5 | 6.95 | 1.204 | 65.4 | 0.568 | 1.713 | 71.6 | 182.3 | --- | 2.685 | 5.93 | 0.402 | 86.9 | 323.7 | 10.3 | 0.232 |
| 4-1330 | 4-1730 | 0.502 | 128.1 | 33.6 | 6.44 | 1.207 | 66.4 | 0.563 | 1.732 | 68.9 | 184.1 | --- | 2.707 | 6.13 | 0.405 | 84.7 | 323.9 | 10.6 | 0.233 |
| 4-1330 | 4-1750 | 0.485 | 129.9 | 32.5 | 5.89 | 1.209 | 67.4 | 0.558 | 1.752 | 66.1 | 185.8 | --- | 2.730 | 6.38 | 0.408 | 82.8 | 324.5 | 11.1 | 0.235 |
| 4-1330 | 4-1770 | 0.468 | 131.7 | 31.3 | 5.30 | 1.212 | 68.4 | 0.554 | 1.773 | 63.3 | 187.4 | --- | 2.756 | 6.69 | 0.411 | 81.0 | 325.4 | 11.5 | 0.237 |
| 4-1330 | 4-1790 | 0.451 | 133.5 | 29.7 | 4.65 | 1.215 | 69.4 | 0.551 | 1.795 | 60.4 | 188.8 | --- | 2.784 | 7.08 | 0.415 | 79.5 | 326.7 | 12.1 | 0.239 |
| 4-1330 | 4-1810 | 0.434 | 135.3 | 27.8 | 3.92 | 1.218 | 70.3 | 0.548 | 1.818 | 57.5 | 190.3 | --- | 2.813 | 7.55 | 0.418 | 78.1 | 328.3 | 12.8 | 0.242 |
| 4-1330 | 4-1830 | 0.417 | 137.0 | 25.5 | 3.10 | 1.221 | 71.3 | 0.545 | 1.840 | 54.7 | 191.6 | --- | 2.843 | 8.13 | 0.421 | 76.8 | 330.1 | 13.6 | 0.246 |
| 4-1330 | 4-1850 | 0.400 | 138.6 | 22.6 | 2.15 | 1.223 | 72.3 | 0.543 | 1.863 | 51.8 | 192.9 | --- | 2.874 | 8.84 | 0.424 | 75.6 | 332.2 | 14.7 | 0.249 |
| 4-1330 | 4-1870 | 0.384 | 140.0 | 18.9 | 1.03 | 1.226 | 73.3 | 0.541 | 1.886 | 48.9 | 194.1 | --- | 2.906 | 9.74 | 0.427 | 74.5 | 334.5 | 15.9 | 0.254 |
| 4-1330 | 4-1890 | 0.370 | 141.0 | 14.1 | -0.34 | 1.229 | 74.2 | 0.540 | 1.908 | 46.0 | 195.3 | --- | 2.938 | 10.90 | 0.430 | 73.5 | 337.0 | 17.5 | 0.259 |
| 4-1330 | 4-1910 | 0.359 | 141.5 | 7.9 | -2.05 | 1.231 | 75.2 | 0.539 | 1.931 | 43.1 | 196.4 | --- | 2.971 | 12.40 | 0.433 | 72.5 | 339.7 | 19.5 | 0.266 |
| 4-1330 | 4-1930 | 0.354 | 141.1 | -0.2 | -4.30 | 1.234 | 76.1 | 0.538 | 1.953 | 40.3 | 197.5 | --- | 3.004 | 14.44 | 0.435 | 71.6 | 342.8 | 22.0 | 0.275 |
| 4-1330 | 4-1950 | 0.361 | 139.2 | -10.9 | -7.38 | 1.236 | 77.1 | 0.538 | 1.975 | 37.5 | 198.6 | --- | 3.038 | 17.32 | 0.438 | 70.7 | 346.3 | 25.3 | 0.288 |
| 4-1330 | 4-1970 | 0.394 | 134.5 | -24.0 | -11.89 | 1.238 | 78.0 | 0.538 | 1.997 | 34.8 | 199.6 | --- | 3.072 | 21.64 | 0.441 | 69.9 | 350.6 | 29.5 | 0.310 |
| 4-1330 | 4-1990 | 0.482 | 124.2 | -38.2 | -19.11 | 1.240 | 78.8 | 0.539 | 2.019 | 32.2 | 200.6 | --- | 3.107 | 28.66 | 0.443 | 69.0 | 356.4 | 34.7 | 0.349 |
| 4-1330 | 4-2010 | 0.685 | 103.1 | -48.8 | -32.01 | 1.242 | 79.6 | 0.540 | 2.040 | 30.0 | 201.6 | --- | 3.142 | 41.38 | 0.446 | 68.2 | 5.6 | 39.8 | 0.427 |
| 4-1330 | 4-2030 | 1.106 | 71.2 | -47.2 | -57.02 | 1.244 | 80.0 | 0.543 | 2.061 | 28.7 | 202.6 | --- | 3.180 | 66.20 | 0.449 | 67.2 | 19.9 | 40.0 | 0.589 |
| 4-1330 | 4-2050 | 1.538 | 355.2 | 58.9 | 84.97 | 1.246 | 83.9 | 0.535 | 2.081 | 17.5 | 203.2 | --- | 3.194 | -75.98 | 0.451 | 67.5 | 27.3 | -38.5 | 0.649 |
| 4-1330 | 4-2070 | 1.081 | 322.0 | 73.1 | 55.74 | 1.248 | 84.2 | 0.539 | 2.101 | 16.6 | 204.2 | --- | 3.233 | -46.93 | 0.454 | 66.5 | 18.1 | -41.0 | 0.463 |
| 4-1340 | 4-1480 | 0.898 | 120.5 | 36.2 | 14.79 | 1.274 | 47.3 | 0.808 | 2.442 | 99.9 | 145.9 | --- | --- | 9.82 | 0.609 | 143.9 | 343.6 | 6.2 | 0.566 |
| 4-1340 | 4-1500 | 0.847 | 119.8 | 36.0 | 13.71 | 1.238 | 48.8 | 0.762 | 2.000 | 101.2 | 152.1 | --- | --- | 9.09 | 0.528 | 137.5 | 341.9 | 6.8 | 0.478 |
| 4-1340 | 4-1520 | 0.808 | 119.8 | 35.7 | 12.76 | 1.215 | 50.1 | 0.730 | 1.802 | 101.4 | 157.2 | --- | --- | 8.53 | 0.471 | 130.8 | 339.7 | 7.3 | 0.414 |
| 4-1340 | 4-1540 | 0.775 | 120.1 | 35.4 | 11.93 | 1.202 | 51.4 | 0.706 | 1.701 | 100.8 | 161.5 | --- | --- | 8.09 | 0.432 | 124.1 | 337.2 | 7.9 | 0.366 |
| 4-1340 | 4-1560 | 0.748 | 120.8 | 35.0 | 11.17 | 1.194 | 52.6 | 0.687 | 1.647 | 99.7 | 165.2 | --- | --- | 7.75 | 0.406 | 117.5 | 334.5 | 8.5 | 0.330 |
| 4-1340 | 4-1580 | 0.723 | 121.7 | 34.5 | 10.48 | 1.189 | 53.7 | 0.671 | 1.620 | 98.1 | 168.5 | --- | --- | 7.49 | 0.390 | 111.4 | 331.7 | 9.0 | 0.304 |
| 4-1340 | 4-1600 | 0.700 | 122.8 | 34.1 | 9.83 | 1.188 | 54.9 | 0.657 | 1.610 | 96.2 | 171.3 | --- | --- | 7.29 | 0.381 | 105.8 | 329.2 | 9.4 | 0.285 |
| 4-1340 | 4-1620 | 0.678 | 124.1 | 33.6 | 9.21 | 1.188 | 56.0 | 0.645 | 1.610 | 94.0 | 173.9 | --- | --- | 7.16 | 0.376 | 100.8 | 327.0 | 9.7 | 0.272 |
| 4-1340 | 4-1640 | 0.657 | 125.4 | 33.0 | 8.62 | 1.189 | 57.1 | 0.635 | 1.617 | 91.7 | 176.2 | --- | --- | 7.08 | 0.376 | 96.5 | 325.2 | 10.1 | 0.264 |
| 4-1340 | 4-1660 | 0.637 | 126.8 | 32.4 | 8.04 | 1.191 | 58.2 | 0.625 | 1.630 | 89.1 | 178.4 | --- | --- | 7.05 | 0.377 | 92.7 | 323.9 | 10.3 | 0.258 |
| 4-1340 | 4-1680 | 0.617 | 128.3 | 31.7 | 7.47 | 1.194 | 59.3 | 0.616 | 1.646 | 86.5 | 180.3 | --- | 2.661 | 7.06 | 0.380 | 89.5 | 323.1 | 10.6 | 0.255 |
| 4-1340 | 4-1700 | 0.598 | 129.8 | 30.9 | 6.90 | 1.196 | 60.4 | 0.608 | 1.665 | 83.8 | 182.2 | --- | 2.678 | 7.13 | 0.384 | 86.6 | 322.8 | 10.8 | 0.253 |
| 4-1340 | 4-1720 | 0.579 | 131.4 | 30.0 | 6.32 | 1.200 | 61.5 | 0.601 | 1.686 | 81.0 | 183.9 | --- | 2.699 | 7.23 | 0.388 | 84.2 | 323.0 | 11.1 | 0.253 |
| 4-1340 | 4-1740 | 0.560 | 132.9 | 29.0 | 5.73 | 1.203 | 62.6 | 0.594 | 1.708 | 78.1 | 185.5 | --- | 2.723 | 7.39 | 0.392 | 82.1 | 323.6 | 11.4 | 0.253 |
| 4-1340 | 4-1760 | 0.541 | 134.5 | 27.9 | 5.12 | 1.206 | 63.7 | 0.588 | 1.731 | 75.2 | 187.0 | --- | 2.750 | 7.59 | 0.397 | 80.2 | 324.5 | 11.7 | 0.254 |
| 4-1340 | 4-1780 | 0.523 | 136.1 | 26.5 | 4.47 | 1.209 | 64.7 | 0.583 | 1.755 | 72.3 | 188.4 | --- | 2.778 | 7.85 | 0.401 | 78.6 | 325.8 | 12.1 | 0.256 |
| 4-1340 | 4-1800 | 0.504 | 137.6 | 25.0 | 3.78 | 1.212 | 65.8 | 0.578 | 1.779 | 69.4 | 189.8 | --- | 2.807 | 8.18 | 0.406 | 77.1 | 327.4 | 12.6 | 0.258 |
| 4-1340 | 4-1820 | 0.486 | 139.1 | 23.2 | 3.04 | 1.215 | 66.8 | 0.574 | 1.803 | 66.4 | 191.1 | --- | 2.837 | 8.58 | 0.410 | 75.8 | 329.2 | 13.2 | 0.260 |
| 4-1340 | 4-1840 | 0.469 | 140.6 | 21.0 | 2.23 | 1.219 | 67.9 | 0.570 | 1.828 | 63.5 | 192.3 | --- | 2.868 | 9.07 | 0.414 | 74.7 | 331.2 | 13.9 | 0.262 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1340 | 4-1860 | 0.452 | 141.9 | 18.5 | 1.33 | 1.221 | 68.9 | 0.566 | 1.852 | 60.5 | 193.5 | --- | 2.900 | 9.66 | 0.418 | 73.6 | 333.4 | 14.7 | 0.265 |
| 4-1340 | 4-1880 | 0.435 | 143.1 | 15.4 | 0.30 | 1.224 | 69.9 | 0.563 | 1.876 | 57.6 | 194.7 | --- | 2.932 | 10.38 | 0.422 | 72.6 | 335.8 | 15.7 | 0.268 |
| 4-1340 | 4-1900 | 0.421 | 144.1 | 11.7 | -0.87 | 1.227 | 70.9 | 0.560 | 1.900 | 54.7 | 195.8 | --- | 2.965 | 11.27 | 0.425 | 71.7 | 338.3 | 16.9 | 0.271 |
| 4-1340 | 4-1920 | 0.408 | 144.7 | 7.2 | -2.26 | 1.230 | 71.9 | 0.558 | 1.924 | 51.8 | 196.9 | --- | 2.998 | 12.38 | 0.429 | 70.8 | 341.1 | 18.3 | 0.276 |
| 4-1340 | 4-1940 | 0.398 | 144.9 | 1.6 | -3.94 | 1.232 | 72.9 | 0.557 | 1.948 | 48.9 | 197.9 | --- | 3.031 | 13.79 | 0.432 | 70.0 | 344.0 | 20.1 | 0.282 |
| 4-1340 | 4-1960 | 0.395 | 144.3 | -5.3 | -6.02 | 1.235 | 73.9 | 0.555 | 1.971 | 46.1 | 198.9 | --- | 3.065 | 15.61 | 0.435 | 69.2 | 347.2 | 22.2 | 0.289 |
| 4-1340 | 4-1980 | 0.401 | 142.6 | -13.6 | -8.70 | 1.237 | 74.9 | 0.554 | 1.994 | 43.3 | 199.9 | --- | 3.099 | 18.04 | 0.438 | 68.5 | 350.7 | 24.9 | 0.300 |
| 4-1340 | 4-2000 | 0.424 | 139.0 | -23.4 | -12.31 | 1.239 | 75.8 | 0.554 | 2.016 | 40.6 | 200.9 | --- | 3.133 | 21.40 | 0.441 | 67.7 | 354.8 | 28.1 | 0.316 |
| 4-1340 | 4-2020 | 0.478 | 132.2 | -33.9 | -17.42 | 1.242 | 76.7 | 0.554 | 2.038 | 38.0 | 201.9 | --- | 3.167 | 26.26 | 0.444 | 67.0 | 359.7 | 32.0 | 0.342 |
| 4-1340 | 4-2040 | 0.586 | 119.9 | -43.4 | -25.16 | 1.244 | 77.5 | 0.554 | 2.060 | 35.6 | 202.8 | --- | 3.202 | 33.76 | 0.447 | 66.3 | 6.2 | 36.3 | 0.384 |
| 4-1340 | 4-2060 | 0.789 | 100.0 | -48.4 | -37.74 | 1.246 | 78.2 | 0.555 | 2.082 | 33.5 | 203.7 | --- | 3.238 | 46.11 | 0.450 | 65.5 | 15.5 | 39.8 | 0.461 |
| 4-1340 | 4-2080 | 1.138 | 76.4 | -44.4 | -58.72 | 1.248 | 78.5 | 0.558 | 2.103 | 32.3 | 204.7 | --- | 3.276 | 66.85 | 0.453 | 64.7 | 28.0 | 39.4 | 0.594 |
| 4-1350 | 4-1490 | 1.004 | 123.5 | 33.9 | 17.12 | 1.248 | 40.2 | 0.838 | 2.119 | 115.4 | 154.1 | --- | --- | 13.41 | 0.555 | 146.1 | 339.8 | 7.2 | 0.569 |
| 4-1350 | 4-1510 | 0.947 | 123.6 | 33.5 | 15.45 | 1.216 | 42.2 | 0.802 | 1.816 | 115.3 | 158.9 | --- | --- | 12.15 | 0.477 | 139.0 | 337.8 | 7.8 | 0.486 |
| 4-1350 | 4-1530 | 0.902 | 124.2 | 33.0 | 14.06 | 1.197 | 43.9 | 0.775 | 1.676 | 114.4 | 162.8 | --- | --- | 11.19 | 0.423 | 131.4 | 335.4 | 8.3 | 0.426 |
| 4-1350 | 4-1550 | 0.865 | 124.9 | 32.5 | 12.88 | 1.186 | 45.5 | 0.753 | 1.605 | 113.0 | 166.2 | --- | --- | 10.43 | 0.388 | 123.8 | 332.9 | 8.8 | 0.381 |
| 4-1350 | 4-1570 | 0.833 | 125.9 | 32.0 | 11.84 | 1.180 | 47.0 | 0.734 | 1.570 | 111.2 | 169.1 | --- | --- | 9.85 | 0.366 | 116.3 | 330.3 | 9.3 | 0.348 |
| 4-1350 | 4-1590 | 0.804 | 127.1 | 31.4 | 10.91 | 1.178 | 48.5 | 0.717 | 1.556 | 109.0 | 171.8 | --- | --- | 9.39 | 0.354 | 109.5 | 327.9 | 9.7 | 0.324 |
| 4-1350 | 4-1610 | 0.778 | 128.3 | 30.8 | 10.06 | 1.177 | 49.9 | 0.703 | 1.555 | 106.7 | 174.1 | --- | --- | 9.03 | 0.349 | 103.4 | 325.9 | 10.0 | 0.308 |
| 4-1350 | 4-1630 | 0.753 | 129.7 | 30.2 | 9.28 | 1.179 | 51.2 | 0.689 | 1.562 | 104.1 | 176.3 | --- | --- | 8.76 | 0.348 | 98.1 | 324.2 | 10.2 | 0.296 |
| 4-1350 | 4-1650 | 0.729 | 131.0 | 29.5 | 8.54 | 1.181 | 52.5 | 0.677 | 1.576 | 101.5 | 178.3 | --- | --- | 8.56 | 0.350 | 93.5 | 323.0 | 10.4 | 0.288 |
| 4-1350 | 4-1670 | 0.707 | 132.4 | 28.8 | 7.84 | 1.184 | 53.8 | 0.666 | 1.593 | 98.7 | 180.2 | --- | 2.654 | 8.43 | 0.355 | 89.6 | 322.3 | 10.6 | 0.282 |
| 4-1350 | 4-1690 | 0.685 | 133.9 | 28.0 | 7.16 | 1.187 | 55.0 | 0.656 | 1.613 | 95.9 | 181.9 | --- | 2.671 | 8.36 | 0.360 | 86.4 | 322.0 | 10.8 | 0.279 |
| 4-1350 | 4-1710 | 0.663 | 135.3 | 27.1 | 6.50 | 1.191 | 56.3 | 0.646 | 1.635 | 93.0 | 183.5 | --- | 2.692 | 8.34 | 0.366 | 83.6 | 322.2 | 11.0 | 0.277 |
| 4-1350 | 4-1730 | 0.642 | 136.8 | 26.1 | 5.84 | 1.194 | 57.5 | 0.637 | 1.659 | 90.0 | 185.1 | --- | 2.716 | 8.37 | 0.372 | 81.2 | 322.8 | 11.2 | 0.276 |
| 4-1350 | 4-1750 | 0.622 | 138.2 | 25.1 | 5.18 | 1.198 | 58.7 | 0.629 | 1.684 | 87.1 | 186.5 | --- | 2.743 | 8.45 | 0.378 | 79.2 | 323.7 | 11.4 | 0.275 |
| 4-1350 | 4-1770 | 0.601 | 139.6 | 23.9 | 4.52 | 1.202 | 59.8 | 0.622 | 1.709 | 84.1 | 187.9 | --- | 2.771 | 8.59 | 0.384 | 77.4 | 325.0 | 11.7 | 0.276 |
| 4-1350 | 4-1790 | 0.582 | 141.0 | 22.6 | 3.83 | 1.205 | 61.0 | 0.615 | 1.735 | 81.1 | 189.2 | --- | 2.801 | 8.78 | 0.390 | 75.9 | 326.5 | 12.1 | 0.276 |
| 4-1350 | 4-1810 | 0.562 | 142.4 | 21.1 | 3.12 | 1.209 | 62.1 | 0.608 | 1.761 | 78.1 | 190.5 | --- | 2.832 | 9.02 | 0.396 | 74.6 | 328.3 | 12.5 | 0.277 |
| 4-1350 | 4-1830 | 0.543 | 143.7 | 19.4 | 2.37 | 1.212 | 63.2 | 0.602 | 1.787 | 75.1 | 191.7 | --- | 2.863 | 9.33 | 0.401 | 73.4 | 330.3 | 13.0 | 0.278 |
| 4-1350 | 4-1850 | 0.525 | 145.0 | 17.4 | 1.57 | 1.216 | 64.3 | 0.597 | 1.813 | 72.1 | 192.9 | --- | 2.895 | 9.72 | 0.406 | 72.3 | 332.4 | 13.5 | 0.279 |
| 4-1350 | 4-1870 | 0.507 | 146.2 | 15.2 | 0.72 | 1.219 | 65.4 | 0.592 | 1.839 | 69.1 | 194.0 | --- | 2.928 | 10.18 | 0.411 | 71.4 | 334.8 | 14.2 | 0.281 |
| 4-1350 | 4-1890 | 0.490 | 147.2 | 12.7 | -0.22 | 1.222 | 66.5 | 0.588 | 1.864 | 66.2 | 195.1 | --- | 2.961 | 10.74 | 0.415 | 70.5 | 337.2 | 15.0 | 0.283 |
| 4-1350 | 4-1910 | 0.474 | 148.2 | 9.7 | -1.26 | 1.225 | 67.6 | 0.584 | 1.890 | 63.2 | 196.2 | --- | 2.994 | 11.43 | 0.420 | 69.7 | 339.8 | 15.9 | 0.285 |
| 4-1350 | 4-1930 | 0.460 | 148.9 | 6.2 | -2.43 | 1.228 | 68.6 | 0.581 | 1.915 | 60.3 | 197.2 | --- | 3.027 | 12.26 | 0.424 | 68.9 | 342.6 | 17.0 | 0.288 |
| 4-1350 | 4-1950 | 0.448 | 149.3 | 2.1 | -3.78 | 1.230 | 69.6 | 0.578 | 1.940 | 57.4 | 198.2 | --- | 3.061 | 13.27 | 0.428 | 68.2 | 345.5 | 18.2 | 0.291 |
| 4-1350 | 4-1970 | 0.439 | 149.3 | -2.8 | -5.35 | 1.233 | 70.7 | 0.575 | 1.964 | 54.5 | 199.2 | --- | 3.094 | 14.52 | 0.431 | 67.5 | 348.5 | 19.8 | 0.296 |
| 4-1350 | 4-1990 | 0.435 | 148.7 | -8.5 | -7.24 | 1.236 | 71.6 | 0.573 | 1.988 | 51.7 | 200.2 | --- | 3.127 | 16.10 | 0.435 | 66.9 | 351.7 | 21.6 | 0.302 |
| 4-1350 | 4-2010 | 0.438 | 147.3 | -15.2 | -9.55 | 1.238 | 72.6 | 0.571 | 2.012 | 48.9 | 201.1 | --- | 3.161 | 18.11 | 0.438 | 66.2 | 355.2 | 23.7 | 0.310 |
| 4-1350 | 4-2030 | 0.453 | 144.5 | -22.8 | -12.49 | 1.240 | 73.6 | 0.570 | 2.035 | 46.2 | 202.0 | --- | 3.195 | 20.75 | 0.442 | 65.6 | 359.0 | 26.3 | 0.321 |
| 4-1350 | 4-2050 | 0.486 | 139.7 | -31.0 | -16.36 | 1.242 | 74.5 | 0.569 | 2.058 | 43.6 | 202.9 | --- | 3.229 | 24.33 | 0.445 | 65.0 | 3.3 | 29.4 | 0.339 |
| 4-1350 | 4-2070 | 0.550 | 131.7 | -39.1 | -21.67 | 1.244 | 75.4 | 0.568 | 2.080 | 41.0 | 203.8 | --- | 3.263 | 29.36 | 0.449 | 64.4 | 8.6 | 32.9 | 0.365 |
| 4-1350 | 4-2090 | 0.662 | 119.1 | -45.3 | -29.36 | 1.247 | 76.1 | 0.569 | 2.102 | 38.8 | 204.7 | --- | 3.297 | 36.77 | 0.452 | 63.8 | 15.2 | 36.6 | 0.408 |
| 4-1360 | 4-1500 | 1.112 | 127.4 | 31.6 | 20.62 | 1.225 | 33.1 | 0.878 | 1.907 | 129.4 | 161.0 | --- | --- | 18.14 | 0.504 | 149.3 | 336.2 | 7.9 | 0.585 |
| 4-1360 | 4-1520 | 1.048 | 128.1 | 31.0 | 18.01 | 1.197 | 35.5 | 0.849 | 1.683 | 128.1 | 164.3 | --- | --- | 15.98 | 0.427 | 141.5 | 334.0 | 8.3 | 0.505 |
| 4-1360 | 4-1540 | 0.998 | 129.0 | 30.4 | 15.95 | 1.180 | 37.6 | 0.824 | 1.578 | 126.3 | 167.3 | --- | --- | 14.36 | 0.376 | 132.9 | 331.7 | 8.8 | 0.447 |
| 4-1360 | 4-1560 | 0.956 | 130.2 | 29.8 | 14.26 | 1.171 | 39.6 | 0.803 | 1.528 | 124.1 | 169.9 | --- | --- | 13.13 | 0.343 | 124.0 | 329.3 | 9.2 | 0.405 |
| 4-1360 | 4-1580 | 0.919 | 131.4 | 29.2 | 12.83 | 1.167 | 41.4 | 0.784 | 1.506 | 121.7 | 172.2 | --- | --- | 12.18 | 0.325 | 115.5 | 327.1 | 9.5 | 0.374 |
| 4-1360 | 4-1600 | 0.887 | 132.7 | 28.5 | 11.59 | 1.166 | 43.1 | 0.767 | 1.501 | 119.2 | 174.3 | --- | --- | 11.43 | 0.316 | 107.7 | 325.1 | 9.8 | 0.351 |
| 4-1360 | 4-1620 | 0.857 | 134.1 | 27.8 | 10.50 | 1.167 | 44.7 | 0.751 | 1.507 | 116.5 | 176.3 | --- | --- | 10.84 | 0.315 | 100.9 | 323.5 | 10.0 | 0.335 |
| 4-1360 | 4-1640 | 0.830 | 135.4 | 27.0 | 9.51 | 1.170 | 46.3 | 0.736 | 1.519 | 113.6 | 178.2 | --- | --- | 10.38 | 0.318 | 95.1 | 322.4 | 10.2 | 0.323 |
| 4-1360 | 4-1660 | 0.803 | 136.8 | 26.3 | 8.61 | 1.173 | 47.8 | 0.723 | 1.537 | 110.8 | 179.9 | --- | --- | 10.03 | 0.324 | 90.3 | 321.7 | 10.3 | 0.315 |
| 4-1360 | 4-1680 | 0.778 | 138.3 | 25.4 | 7.77 | 1.176 | 49.2 | 0.710 | 1.558 | 107.8 | 181.5 | --- | 2.663 | 9.76 | 0.331 | 86.3 | 321.5 | 10.4 | 0.309 |
| 4-1360 | 4-1700 | 0.754 | 139.7 | 24.5 | 6.97 | 1.180 | 50.6 | 0.698 | 1.581 | 104.8 | 183.1 | --- | 2.684 | 9.56 | 0.339 | 83.0 | 321.7 | 10.6 | 0.305 |
| 4-1360 | 4-1720 | 0.731 | 141.0 | 23.6 | 6.21 | 1.185 | 52.0 | 0.687 | 1.606 | 101.8 | 184.5 | --- | 2.708 | 9.44 | 0.347 | 80.2 | 322.3 | 10.7 | 0.302 |
| 4-1360 | 4-1740 | 0.708 | 142.4 | 22.6 | 5.48 | 1.189 | 53.3 | 0.676 | 1.632 | 98.8 | 185.9 | --- | 2.736 | 9.37 | 0.356 | 77.9 | 323.2 | 10.9 | 0.300 |
| 4-1360 | 4-1760 | 0.686 | 143.8 | 21.5 | 4.75 | 1.193 | 54.6 | 0.667 | 1.659 | 95.7 | 187.3 | --- | 2.764 | 9.37 | 0.364 | 76.0 | 324.4 | 11.1 | 0.299 |
| 4-1360 | 4-1780 | 0.665 | 145.1 | 20.3 | 4.04 | 1.197 | 55.9 | 0.658 | 1.686 | 92.7 | 188.6 | --- | 2.795 | 9.41 | 0.371 | 74.4 | 325.9 | 11.3 | 0.298 |
| 4-1360 | 4-1800 | 0.644 | 146.4 | 19.0 | 3.31 | 1.201 | 57.1 | 0.649 | 1.714 | 89.6 | 189.8 | --- | 2.826 | 9.51 | 0.378 | 73.0 | 327.6 | 11.6 | 0.298 |
| 4-1360 | 4-1820 | 0.623 | 147.6 | 17.6 | 2.58 | 1.205 | 58.3 | 0.641 | 1.741 | 86.6 | 191.0 | --- | 2.858 | 9.67 | 0.385 | 71.7 | 329.6 | 11.9 | 0.297 |
| 4-1360 | 4-1840 | 0.604 | 148.8 | 16.0 | 1.83 | 1.209 | 59.5 | 0.634 | 1.769 | 83.5 | 192.1 | --- | 2.891 | 9.88 | 0.392 | 70.7 | 331.7 | 12.3 | 0.297 |
| 4-1360 | 4-1860 | 0.584 | 150.0 | 14.3 | 1.05 | 1.212 | 60.7 | 0.627 | 1.797 | 80.5 | 193.2 | --- | 2.924 | 10.16 | 0.397 | 69.7 | 333.9 | 12.8 | 0.297 |
| 4-1360 | 4-1880 | 0.566 | 151.1 | 12.3 | 0.23 | 1.216 | 61.9 | 0.621 | 1.824 | 77.5 | 194.3 | --- | 2.957 | 10.50 | 0.403 | 68.9 | 336.3 | 13.3 | 0.298 |
| 4-1360 | 4-1900 | 0.548 | 152.1 | 10.1 | -0.64 | 1.219 | 63.0 | 0.616 | 1.851 | 74.5 | 195.4 | --- | 2.991 | 10.92 | 0.408 | 68.1 | 338.8 | 13.9 | 0.298 |
| 4-1360 | 4-1920 | 0.531 | 152.9 | 7.7 | -1.58 | 1.222 | 64.1 | 0.611 | 1.878 | 71.6 | 196.4 | --- | 3.024 | 11.43 | 0.413 | 67.4 | 341.5 | 14.6 | 0.299 |
| 4-1360 | 4-1940 | 0.515 | 153.7 | 4.9 | -2.60 | 1.225 | 65.2 | 0.606 | 1.904 | 68.6 | 197.4 | --- | 3.058 | 12.04 | 0.418 | 66.8 | 344.2 | 15.5 | 0.300 |
| 4-1360 | 4-1960 | 0.501 | 154.2 | 1.7 | -3.73 | 1.228 | 66.3 | 0.602 | 1.930 | 65.7 | 198.4 | --- | 3.091 | 12.78 | 0.423 | 66.2 | 347.1 | 16.4 | 0.302 |
| 4-1360 | 4-1980 | 0.489 | 154.5 | -2.0 | -5.00 | 1.231 | 67.3 | 0.598 | 1.956 | 62.8 | 199.3 | --- | 3.125 | 13.67 | 0.427 | 65.6 | 350.0 | 17.6 | 0.305 |
| 4-1360 | 4-2000 | 0.479 | 154.5 | -6.1 | -6.44 | 1.233 | 68.4 | 0.594 | 1.981 | 60.0 | 200.2 | --- | 3.158 | 14.75 | 0.431 | 65.1 | 353.1 | 18.9 | 0.308 |
| 4-1360 | 4-2020 | 0.474 | 154.0 | -10.9 | -8.13 | 1.236 | 69.4 | 0.591 | 2.006 | 57.1 | 201.2 | --- | 3.192 | 16.08 | 0.435 | 64.5 | 356.3 | 20.4 | 0.312 |
| 4-1360 | 4-2040 | 0.474 | 152.8 | -16.4 | -10.12 | 1.238 | 70.4 | 0.589 | 2.030 | 54.4 | 202.1 | --- | 3.225 | 17.74 | 0.439 | 64.0 | 359.7 | 22.2 | 0.318 |
| 4-1360 | 4-2060 | 0.482 | 150.8 | -22.5 | -12.55 | 1.241 | 71.4 | 0.587 | 2.053 | 51.6 | 203.0 | --- | 3.258 | 19.83 | 0.443 | 63.5 | 3.3 | 24.4 | 0.326 |
| 4-1360 | 4-2080 | 0.502 | 147.3 | -29.1 | -15.59 | 1.243 | 72.3 | 0.585 | 2.077 | 49.0 | 203.9 | --- | 3.291 | 22.54 | 0.447 | 63.0 | 7.3 | 26.9 | 0.338 |
| 4-1360 | 4-2100 | 0.541 | 141.8 | -35.8 | -19.52 | 1.245 | 73.2 | 0.584 | 2.100 | 46.4 | 204.7 | --- | 3.325 | 26.15 | 0.450 | 62.5 | 11.8 | 29.7 | 0.355 |
| 4-1370 | 4-1510 | 1.221 | 131.8 | 29.4 | 26.23 | 1.207 | 26.0 | 0.919 | 1.768 | 141.8 | 166.4 | --- | --- | 24.97 | 0.461 | 153.8 | 333.2 | 8.1 | 0.613 |
| 4-1370 | 4-1530 | 1.150 | 133.0 | 28.6 | 21.95 | 1.180 | 28.7 | 0.895 | 1.587 | 139.6 | 168.7 | --- | --- | 21.14 | 0.382 | 145.2 | 331.0 | 8.4 | 0.535 |
| 4-1370 | 4-1550 | 1.094 | 134.2 | 27.9 | 18.76 | 1.165 | 31.2 | 0.873 | 1.504 | 137.1 | 170.8 | --- | --- | 18.42 | 0.329 | 135.5 | 328.8 | 8.8 | 0.477 |
| 4-1370 | 4-1570 | 1.047 | 135.6 | 27.1 | 16.28 | 1.157 | 33.5 | 0.853 | 1.466 | 134.4 | 172.7 | --- | --- | 16.41 | 0.298 | 125.1 | 326.7 | 9.1 | 0.436 |
| 4-1370 | 4-1590 | 1.007 | 137.0 | 26.4 | 14.28 | 1.155 | 35.6 | 0.834 | 1.453 | 131.5 | 174.5 | --- | --- | 14.89 | 0.282 | 115.1 | 324.9 | 9.3 | 0.405 |
| 4-1370 | 4-1610 | 0.971 | 138.5 | 25.6 | 12.61 | 1.155 | 37.6 | 0.816 | 1.454 | 128.6 | 176.3 | --- | --- | 13.72 | 0.277 | 106.0 | 323.4 | 9.5 | 0.383 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1370 | 4-1630 | 0.938 | 139.9 | 24.8 | 11.19 | 1.157 | 39.4 | 0.799 | 1.464 | 125.6 | 177.9 | --- | --- | 12.80 | 0.279 | 98.2 | 322.3 | 9.6 | 0.367 |
| 4-1370 | 4-1650 | 0.908 | 141.3 | 24.0 | 9.94 | 1.160 | 41.2 | 0.784 | 1.481 | 122.6 | 179.5 | --- | --- | 12.08 | 0.286 | 91.8 | 321.6 | 9.7 | 0.355 |
| 4-1370 | 4-1670 | 0.879 | 142.8 | 23.1 | 8.83 | 1.164 | 42.9 | 0.769 | 1.501 | 119.5 | 181.0 | --- | 2.655 | 11.51 | 0.296 | 86.7 | 321.3 | 9.8 | 0.346 |
| 4-1370 | 4-1690 | 0.852 | 144.2 | 22.2 | 7.83 | 1.169 | 44.5 | 0.755 | 1.525 | 116.5 | 182.5 | --- | 2.675 | 11.06 | 0.306 | 82.5 | 321.5 | 9.9 | 0.339 |
| 4-1370 | 4-1710 | 0.826 | 145.5 | 21.3 | 6.90 | 1.173 | 46.0 | 0.741 | 1.550 | 113.4 | 183.8 | --- | 2.700 | 10.72 | 0.317 | 79.2 | 322.0 | 10.0 | 0.334 |
| 4-1370 | 4-1730 | 0.801 | 146.9 | 20.3 | 6.03 | 1.178 | 47.6 | 0.729 | 1.577 | 110.3 | 185.2 | --- | 2.727 | 10.46 | 0.328 | 76.5 | 322.9 | 10.1 | 0.330 |
| 4-1370 | 4-1750 | 0.777 | 148.2 | 19.2 | 5.20 | 1.183 | 49.0 | 0.717 | 1.605 | 107.2 | 186.5 | --- | 2.757 | 10.27 | 0.338 | 74.3 | 324.1 | 10.2 | 0.327 |
| 4-1370 | 4-1770 | 0.753 | 149.5 | 18.1 | 4.41 | 1.187 | 50.4 | 0.706 | 1.634 | 104.0 | 187.7 | --- | 2.788 | 10.16 | 0.348 | 72.5 | 325.5 | 10.4 | 0.324 |
| 4-1370 | 4-1790 | 0.731 | 150.8 | 16.9 | 3.64 | 1.192 | 51.8 | 0.696 | 1.663 | 101.0 | 188.9 | --- | 2.820 | 10.10 | 0.357 | 71.0 | 327.2 | 10.6 | 0.322 |
| 4-1370 | 4-1810 | 0.708 | 152.0 | 15.7 | 2.89 | 1.196 | 53.1 | 0.686 | 1.692 | 97.9 | 190.1 | --- | 2.853 | 10.10 | 0.366 | 69.7 | 329.1 | 10.8 | 0.320 |
| 4-1370 | 4-1830 | 0.687 | 153.1 | 14.3 | 2.13 | 1.200 | 54.4 | 0.677 | 1.721 | 94.8 | 191.2 | --- | 2.886 | 10.16 | 0.374 | 68.7 | 331.1 | 11.1 | 0.319 |
| 4-1370 | 4-1850 | 0.666 | 154.3 | 12.9 | 1.38 | 1.204 | 55.7 | 0.668 | 1.750 | 91.7 | 192.3 | --- | 2.920 | 10.27 | 0.381 | 67.7 | 333.3 | 11.4 | 0.318 |
| 4-1370 | 4-1870 | 0.646 | 155.4 | 11.3 | 0.61 | 1.208 | 57.0 | 0.660 | 1.779 | 88.7 | 193.4 | --- | 2.954 | 10.44 | 0.388 | 66.9 | 335.6 | 11.8 | 0.317 |
| 4-1370 | 4-1890 | 0.626 | 156.4 | 9.5 | -0.18 | 1.212 | 58.2 | 0.653 | 1.808 | 85.7 | 194.4 | --- | 2.988 | 10.66 | 0.395 | 66.2 | 338.1 | 12.2 | 0.316 |
| 4-1370 | 4-1910 | 0.607 | 157.3 | 7.6 | -1.00 | 1.215 | 59.4 | 0.646 | 1.836 | 82.7 | 195.4 | --- | 3.022 | 10.95 | 0.401 | 65.6 | 340.6 | 12.7 | 0.315 |
| 4-1370 | 4-1930 | 0.589 | 158.2 | 5.6 | -1.86 | 1.219 | 60.6 | 0.639 | 1.864 | 79.7 | 196.4 | --- | 3.056 | 11.31 | 0.407 | 65.0 | 343.3 | 13.3 | 0.315 |
| 4-1370 | 4-1950 | 0.572 | 158.9 | 3.2 | -2.77 | 1.222 | 61.7 | 0.633 | 1.892 | 76.7 | 197.4 | --- | 3.090 | 11.75 | 0.412 | 64.4 | 346.0 | 13.9 | 0.315 |
| 4-1370 | 4-1970 | 0.556 | 159.6 | 0.7 | -3.75 | 1.225 | 62.8 | 0.628 | 1.919 | 73.8 | 198.3 | --- | 3.124 | 12.28 | 0.417 | 63.9 | 348.8 | 14.7 | 0.315 |
| 4-1370 | 4-1990 | 0.542 | 160.0 | -2.2 | -4.82 | 1.228 | 63.9 | 0.623 | 1.946 | 70.9 | 199.3 | --- | 3.157 | 12.91 | 0.422 | 63.5 | 351.7 | 15.5 | 0.316 |
| 4-1370 | 4-2010 | 0.529 | 160.3 | -5.4 | -5.99 | 1.231 | 65.0 | 0.618 | 1.972 | 68.0 | 200.2 | --- | 3.191 | 13.67 | 0.427 | 63.0 | 354.7 | 16.5 | 0.317 |
| 4-1370 | 4-2030 | 0.519 | 160.3 | -9.0 | -7.31 | 1.233 | 66.1 | 0.614 | 1.997 | 65.2 | 201.1 | --- | 3.224 | 14.59 | 0.431 | 62.6 | 357.8 | 17.6 | 0.319 |
| 4-1370 | 4-2050 | 0.512 | 159.9 | -13.1 | -8.80 | 1.236 | 67.1 | 0.610 | 2.022 | 62.4 | 202.0 | --- | 3.257 | 15.69 | 0.436 | 62.2 | 1.0 | 18.9 | 0.321 |
| 4-1370 | 4-2070 | 0.509 | 159.0 | -17.6 | -10.52 | 1.238 | 68.2 | 0.607 | 2.047 | 59.6 | 202.9 | --- | 3.290 | 17.04 | 0.440 | 61.8 | 4.3 | 20.4 | 0.325 |
| 4-1370 | 4-2090 | 0.511 | 157.5 | -22.6 | -12.55 | 1.241 | 69.2 | 0.604 | 2.071 | 56.9 | 203.8 | --- | 3.323 | 18.70 | 0.444 | 61.4 | 7.8 | 22.2 | 0.331 |
| 4-1370 | 4-2110 | 0.522 | 155.0 | -28.0 | -15.00 | 1.243 | 70.1 | 0.602 | 2.095 | 54.2 | 204.7 | --- | 3.355 | 20.79 | 0.448 | 61.0 | 11.5 | 24.3 | 0.339 |
| 4-1380 | 4-1540 | 1.252 | 138.1 | 26.2 | 28.49 | 1.166 | 22.1 | 0.936 | 1.521 | 149.8 | 172.0 | --- | --- | 28.87 | 0.342 | 150.5 | 329.0 | 8.2 | 0.572 |
| 4-1380 | 4-1560 | 1.190 | 139.6 | 25.4 | 23.21 | 1.152 | 24.8 | 0.917 | 1.449 | 146.9 | 173.4 | --- | --- | 24.06 | 0.286 | 139.7 | 327.0 | 8.4 | 0.515 |
| 4-1380 | 4-1580 | 1.139 | 141.2 | 24.5 | 19.38 | 1.145 | 27.4 | 0.899 | 1.418 | 143.8 | 174.8 | --- | --- | 20.69 | 0.253 | 127.6 | 325.2 | 8.6 | 0.473 |
| 4-1380 | 4-1600 | 1.095 | 142.8 | 23.6 | 16.46 | 1.144 | 29.7 | 0.881 | 1.410 | 140.6 | 176.3 | --- | --- | 18.25 | 0.239 | 115.4 | 323.7 | 8.8 | 0.442 |
| 4-1380 | 4-1620 | 1.055 | 144.3 | 22.7 | 14.14 | 1.145 | 32.0 | 0.863 | 1.415 | 137.5 | 177.6 | --- | --- | 16.42 | 0.237 | 104.4 | 322.6 | 8.9 | 0.419 |
| 4-1380 | 4-1640 | 1.020 | 145.8 | 21.8 | 12.24 | 1.147 | 34.0 | 0.846 | 1.428 | 134.3 | 179.0 | --- | --- | 15.02 | 0.243 | 95.3 | 321.9 | 9.0 | 0.401 |
| 4-1380 | 4-1660 | 0.987 | 147.3 | 20.9 | 10.64 | 1.151 | 36.0 | 0.830 | 1.447 | 131.1 | 180.4 | --- | 2.647 | 13.92 | 0.254 | 88.1 | 321.6 | 9.0 | 0.388 |
| 4-1380 | 4-1680 | 0.956 | 148.7 | 20.0 | 9.25 | 1.156 | 37.9 | 0.814 | 1.470 | 127.9 | 181.7 | --- | 2.666 | 13.06 | 0.267 | 82.6 | 321.7 | 9.1 | 0.378 |
| 4-1380 | 4-1700 | 0.927 | 150.1 | 19.0 | 8.03 | 1.161 | 39.7 | 0.799 | 1.495 | 124.7 | 183.0 | --- | 2.690 | 12.38 | 0.281 | 78.3 | 322.1 | 9.2 | 0.370 |
| 4-1380 | 4-1720 | 0.899 | 151.5 | 18.0 | 6.94 | 1.166 | 41.4 | 0.785 | 1.522 | 121.5 | 184.3 | --- | 2.717 | 11.84 | 0.294 | 75.0 | 323.0 | 9.2 | 0.364 |
| 4-1380 | 4-1740 | 0.872 | 152.8 | 17.0 | 5.94 | 1.171 | 43.0 | 0.771 | 1.551 | 118.4 | 185.5 | --- | 2.747 | 11.42 | 0.307 | 72.4 | 324.1 | 9.3 | 0.359 |
| 4-1380 | 4-1760 | 0.847 | 154.1 | 16.0 | 5.01 | 1.177 | 44.6 | 0.758 | 1.580 | 115.2 | 186.7 | --- | 2.779 | 11.09 | 0.320 | 70.3 | 325.4 | 9.4 | 0.354 |
| 4-1380 | 4-1780 | 0.822 | 155.3 | 14.9 | 4.14 | 1.182 | 46.1 | 0.746 | 1.610 | 112.1 | 187.8 | --- | 2.812 | 10.84 | 0.331 | 68.7 | 327.0 | 9.5 | 0.350 |
| 4-1380 | 4-1800 | 0.798 | 156.6 | 13.7 | 3.31 | 1.186 | 47.6 | 0.735 | 1.640 | 108.9 | 189.0 | --- | 2.846 | 10.67 | 0.342 | 67.3 | 328.8 | 9.7 | 0.347 |
| 4-1380 | 4-1820 | 0.775 | 157.7 | 12.5 | 2.51 | 1.191 | 49.1 | 0.724 | 1.671 | 105.8 | 190.1 | --- | 2.880 | 10.56 | 0.352 | 66.2 | 330.8 | 9.9 | 0.344 |
| 4-1380 | 4-1840 | 0.752 | 158.8 | 11.2 | 1.74 | 1.195 | 50.5 | 0.713 | 1.701 | 102.7 | 191.2 | --- | 2.915 | 10.51 | 0.362 | 65.3 | 332.9 | 10.1 | 0.342 |
| 4-1380 | 4-1860 | 0.730 | 159.9 | 9.8 | 0.97 | 1.200 | 51.8 | 0.703 | 1.731 | 99.7 | 192.2 | --- | 2.950 | 10.52 | 0.370 | 64.5 | 335.2 | 10.4 | 0.339 |
| 4-1380 | 4-1880 | 0.709 | 161.0 | 8.4 | 0.21 | 1.204 | 53.1 | 0.694 | 1.762 | 96.6 | 193.3 | --- | 2.984 | 10.58 | 0.378 | 63.8 | 337.6 | 10.7 | 0.337 |
| 4-1380 | 4-1900 | 0.688 | 161.9 | 6.8 | -0.56 | 1.208 | 54.4 | 0.686 | 1.791 | 93.6 | 194.3 | --- | 3.019 | 10.70 | 0.386 | 63.3 | 340.0 | 11.0 | 0.335 |
| 4-1380 | 4-1920 | 0.669 | 162.9 | 5.1 | -1.34 | 1.212 | 55.7 | 0.678 | 1.821 | 90.6 | 195.3 | --- | 3.054 | 10.87 | 0.393 | 62.8 | 342.6 | 11.4 | 0.333 |
| 4-1380 | 4-1940 | 0.650 | 163.7 | 3.3 | -2.14 | 1.215 | 56.9 | 0.670 | 1.850 | 87.6 | 196.2 | --- | 3.089 | 11.10 | 0.399 | 62.3 | 345.3 | 11.8 | 0.332 |
| 4-1380 | 4-1960 | 0.631 | 164.5 | 1.3 | -2.97 | 1.218 | 58.1 | 0.663 | 1.878 | 84.6 | 197.2 | --- | 3.123 | 11.39 | 0.405 | 61.9 | 348.0 | 12.3 | 0.331 |
| 4-1380 | 4-1980 | 0.614 | 165.2 | -0.8 | -3.84 | 1.222 | 59.3 | 0.656 | 1.906 | 81.7 | 198.1 | --- | 3.157 | 11.75 | 0.411 | 61.5 | 350.8 | 12.9 | 0.329 |
| 4-1380 | 4-2000 | 0.598 | 165.8 | -3.1 | -4.76 | 1.225 | 60.5 | 0.650 | 1.934 | 78.8 | 199.1 | --- | 3.191 | 12.19 | 0.417 | 61.2 | 353.6 | 13.6 | 0.329 |
| 4-1380 | 4-2020 | 0.583 | 166.2 | -5.7 | -5.75 | 1.228 | 61.6 | 0.644 | 1.961 | 75.9 | 200.0 | --- | 3.224 | 12.71 | 0.422 | 60.8 | 356.5 | 14.3 | 0.328 |
| 4-1380 | 4-2040 | 0.570 | 166.5 | -8.5 | -6.82 | 1.230 | 62.7 | 0.639 | 1.988 | 73.1 | 200.9 | --- | 3.258 | 13.34 | 0.427 | 60.5 | 359.5 | 15.1 | 0.328 |
| 4-1380 | 4-2060 | 0.558 | 166.5 | -11.6 | -8.00 | 1.233 | 63.8 | 0.634 | 2.014 | 70.3 | 201.8 | --- | 3.291 | 14.10 | 0.432 | 60.2 | 2.6 | 16.1 | 0.329 |
| 4-1380 | 4-2080 | 0.549 | 166.3 | -15.1 | -9.31 | 1.236 | 64.9 | 0.630 | 2.039 | 67.5 | 202.7 | --- | 3.323 | 15.00 | 0.436 | 59.9 | 5.7 | 17.2 | 0.330 |
| 4-1380 | 4-2100 | 0.544 | 165.7 | -18.9 | -10.80 | 1.238 | 65.9 | 0.626 | 2.064 | 64.7 | 203.5 | --- | 3.355 | 16.08 | 0.441 | 59.6 | 9.0 | 18.5 | 0.332 |
| 4-1380 | 4-2120 | 0.542 | 164.6 | -23.0 | -12.51 | 1.240 | 67.0 | 0.622 | 2.089 | 62.0 | 204.4 | --- | 3.388 | 17.41 | 0.446 | 59.3 | 12.4 | 20.0 | 0.336 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1620 | 4-1840 | 0.835 | 209.1 | -16.0 | -3.00 | 1.355 | 128.7 | 0.896 | 5.602 | 277.0 | 492.4 | 0.581 | --- | 12.91 | 0.735 | 149.1 | 77.4 | 7.6 | 0.634 |
| 4-1620 | 4-1860 | 0.773 | 209.5 | -14.3 | -1.53 | 1.317 | 126.6 | 0.831 | 3.559 | 277.5 | 496.9 | 0.601 | --- | 11.74 | 0.659 | 145.3 | 78.4 | 8.0 | 0.551 |
| 4-1620 | 4-1880 | 0.724 | 209.9 | -12.6 | -0.30 | 1.288 | 124.9 | 0.780 | 2.811 | 277.8 | 501.4 | 0.617 | --- | 10.82 | 0.596 | 141.3 | 79.1 | 8.3 | 0.482 |
| 4-1620 | 4-1900 | 0.687 | 210.3 | -11.1 | 0.74 | 1.266 | 123.6 | 0.741 | 2.433 | 278.2 | 505.7 | 0.630 | --- | 10.09 | 0.544 | 137.1 | 79.2 | 8.8 | 0.424 |
| 4-1620 | 4-1920 | 0.659 | 210.7 | -9.7 | 1.65 | 1.250 | 122.5 | 0.710 | 2.212 | 278.4 | 509.9 | 0.641 | --- | 9.50 | 0.501 | 132.7 | 78.8 | 9.3 | 0.376 |
| 4-1620 | 4-1940 | 0.638 | 211.2 | -8.4 | 2.46 | 1.237 | 121.7 | 0.687 | 2.070 | 278.5 | 514.0 | 0.648 | --- | 9.02 | 0.466 | 128.2 | 77.8 | 9.8 | 0.336 |
| 4-1620 | 4-1960 | 0.623 | 211.8 | -7.1 | 3.18 | 1.228 | 121.1 | 0.670 | 1.976 | 278.4 | 517.9 | 0.653 | --- | 8.63 | 0.437 | 123.6 | 76.2 | 10.4 | 0.303 |
| 4-1620 | 4-1980 | 0.614 | 212.4 | -6.1 | 3.85 | 1.221 | 120.7 | 0.657 | 1.911 | 278.2 | 521.6 | 0.655 | --- | 8.32 | 0.413 | 118.9 | 73.9 | 10.9 | 0.277 |
| 4-1620 | 4-2000 | 0.609 | 213.0 | -5.1 | 4.46 | 1.216 | 120.6 | 0.649 | 1.866 | 277.8 | 525.1 | 0.656 | --- | 8.06 | 0.393 | 114.1 | 71.2 | 11.3 | 0.256 |
| 4-1620 | 4-2020 | 0.609 | 213.7 | -4.3 | 5.03 | 1.212 | 120.5 | 0.644 | 1.834 | 277.3 | 528.4 | 0.654 | --- | 7.85 | 0.378 | 109.3 | 68.0 | 11.7 | 0.241 |
| 4-1620 | 4-2040 | 0.611 | 214.4 | -3.7 | 5.58 | 1.209 | 120.7 | 0.642 | 1.812 | 276.6 | 531.5 | 0.649 | --- | 7.70 | 0.366 | 104.5 | 64.6 | 11.8 | 0.231 |
| 4-1620 | 4-2060 | 0.617 | 215.2 | -3.2 | 6.10 | 1.207 | 121.0 | 0.642 | 1.798 | 275.7 | 534.4 | 0.643 | --- | 7.58 | 0.356 | 99.8 | 61.3 | 11.8 | 0.226 |
| 4-1620 | 4-2080 | 0.625 | 216.0 | -2.8 | 6.61 | 1.206 | 121.4 | 0.645 | 1.790 | 274.6 | 537.1 | 0.635 | --- | 7.49 | 0.349 | 95.2 | 58.1 | 11.7 | 0.224 |
| 4-1620 | 4-2100 | 0.636 | 216.8 | -2.5 | 7.10 | 1.206 | 122.0 | 0.650 | 1.785 | 273.4 | 539.6 | 0.625 | --- | 7.44 | 0.345 | 90.7 | 55.5 | 11.4 | 0.227 |
| 4-1620 | 4-2120 | 0.650 | 217.7 | -2.3 | 7.59 | 1.206 | 122.7 | 0.657 | 1.785 | 272.0 | 541.9 | 0.613 | 2.956 | 7.43 | 0.342 | 86.3 | 53.4 | 11.0 | 0.231 |
| 4-1620 | 4-2140 | 0.666 | 218.7 | -2.3 | 8.07 | 1.206 | 123.5 | 0.665 | 1.786 | 270.4 | 544.0 | 0.599 | 2.974 | 7.44 | 0.341 | 82.1 | 51.9 | 10.5 | 0.239 |
| 4-1620 | 4-2160 | 0.683 | 219.7 | -2.3 | 8.56 | 1.207 | 124.4 | 0.674 | 1.791 | 268.6 | 546.0 | 0.583 | 2.998 | 7.49 | 0.341 | 78.0 | 51.0 | 10.1 | 0.248 |
| 4-1620 | 4-2180 | 0.703 | 220.7 | -2.4 | 9.05 | 1.207 | 125.5 | 0.685 | 1.797 | 266.7 | 547.7 | 0.566 | 3.028 | 7.57 | 0.342 | 74.0 | 50.7 | 9.6 | 0.259 |
| 4-1620 | 4-2200 | 0.725 | 221.7 | -2.7 | 9.55 | 1.208 | 126.6 | 0.697 | 1.804 | 264.6 | 549.3 | 0.546 | 3.062 | 7.68 | 0.344 | 70.2 | 50.9 | 9.2 | 0.272 |
| 4-1620 | 4-2220 | 0.749 | 222.9 | -3.0 | 10.07 | 1.209 | 127.9 | 0.710 | 1.813 | 262.3 | 550.7 | 0.525 | 3.101 | 7.83 | 0.347 | 66.5 | 51.7 | 8.8 | 0.285 |
| 4-1620 | 4-2240 | 0.775 | 224.0 | -3.3 | 10.62 | 1.211 | 129.3 | 0.725 | 1.823 | 259.8 | 551.9 | 0.502 | 3.145 | 8.02 | 0.351 | 62.9 | 52.9 | 8.4 | 0.300 |
| 4-1620 | 4-2260 | 0.804 | 225.2 | -3.8 | 11.19 | 1.212 | 130.8 | 0.740 | 1.834 | 257.2 | 552.9 | 0.477 | 3.191 | 8.25 | 0.356 | 59.4 | 54.4 | 8.0 | 0.315 |
| 4-1620 | 4-2280 | 0.834 | 226.5 | -4.2 | 11.79 | 1.213 | 132.4 | 0.756 | 1.846 | 254.4 | 553.8 | 0.451 | 3.242 | 8.53 | 0.361 | 55.9 | 56.3 | 7.7 | 0.332 |
| 4-1620 | 4-2300 | 0.866 | 227.8 | -4.8 | 12.45 | 1.215 | 134.2 | 0.773 | 1.859 | 251.5 | 554.4 | 0.423 | 3.295 | 8.87 | 0.366 | 52.6 | 58.5 | 7.4 | 0.349 |
| 4-1620 | 4-2320 | 0.901 | 229.1 | -5.4 | 13.16 | 1.217 | 136.0 | 0.790 | 1.872 | 248.3 | 554.9 | 0.393 | 3.352 | 9.27 | 0.372 | 49.2 | 61.0 | 7.1 | 0.368 |
| 4-1620 | 4-2340 | 0.938 | 230.5 | -6.0 | 13.94 | 1.218 | 138.1 | 0.808 | 1.886 | 245.0 | 555.3 | 0.361 | 3.411 | 9.76 | 0.379 | 46.0 | 63.8 | 6.8 | 0.387 |
| 4-1620 | 4-2360 | 0.977 | 232.0 | -6.7 | 14.81 | 1.220 | 140.2 | 0.827 | 1.901 | 241.4 | 555.4 | 0.329 | 3.473 | 10.34 | 0.385 | 42.7 | 66.8 | 6.6 | 0.407 |
| 4-1620 | 4-2380 | 1.018 | 233.6 | -7.4 | 15.80 | 1.222 | 142.5 | 0.846 | 1.916 | 237.7 | 555.3 | 0.295 | 3.537 | 11.05 | 0.392 | 39.5 | 70.0 | 6.4 | 0.428 |
| 4-1620 | 4-2400 | 1.062 | 235.2 | -8.2 | 16.95 | 1.223 | 145.0 | 0.865 | 1.932 | 233.8 | 555.0 | 0.260 | 3.603 | 11.92 | 0.399 | 36.2 | 73.5 | 6.2 | 0.451 |
| 4-1620 | 4-2420 | 1.109 | 236.9 | -9.0 | 18.30 | 1.225 | 147.6 | 0.884 | 1.948 | 229.6 | 554.6 | 0.225 | 3.670 | 13.01 | 0.407 | 32.9 | 77.1 | 6.0 | 0.474 |
| 4-1620 | 4-2440 | 1.157 | 238.7 | -9.8 | 19.93 | 1.227 | 150.4 | 0.903 | 1.965 | 225.3 | 553.9 | 0.190 | 3.739 | 14.37 | 0.414 | 29.6 | 81.0 | 5.8 | 0.499 |
| 4-1620 | 4-2460 | 1.208 | 240.6 | -10.7 | 21.96 | 1.229 | 153.3 | 0.921 | 1.982 | 220.7 | 553.0 | 0.156 | 3.808 | 16.13 | 0.422 | 26.3 | 85.0 | 5.7 | 0.525 |
| 4-1620 | 4-2480 | 1.262 | 242.5 | -11.5 | 24.56 | 1.230 | 156.4 | 0.938 | 2.000 | 216.0 | 551.9 | 0.123 | 3.876 | 18.48 | 0.430 | 22.9 | 89.2 | 5.5 | 0.552 |
| 4-1620 | 4-2500 | 1.317 | 244.6 | -12.4 | 28.05 | 1.232 | 159.6 | 0.954 | 2.018 | 211.1 | 550.7 | 0.093 | 3.943 | 21.71 | 0.439 | 19.5 | 93.6 | 5.4 | 0.580 |
| 4-1620 | 4-2520 | 1.374 | 246.7 | -13.3 | 33.00 | 1.234 | 162.9 | 0.967 | 2.037 | 206.1 | 549.2 | 0.066 | 4.008 | 26.40 | 0.447 | 16.2 | 98.2 | 5.2 | 0.609 |
| 4-1620 | 4-2540 | 1.432 | 249.0 | -14.2 | 40.46 | 1.236 | 166.1 | 0.979 | 2.057 | 201.2 | 547.7 | 0.044 | 4.070 | 33.60 | 0.455 | 13.0 | 103.0 | 5.1 | 0.640 |
| 4-1630 | 4-1850 | 0.801 | 216.1 | -18.6 | -2.94 | 1.363 | 126.3 | 0.900 | 6.208 | 282.4 | 489.8 | 0.623 | --- | 13.13 | 0.745 | 148.5 | 80.8 | 8.0 | 0.635 |
| 4-1630 | 4-1870 | 0.737 | 216.5 | -16.2 | -1.13 | 1.325 | 124.3 | 0.830 | 3.780 | 283.0 | 494.4 | 0.642 | --- | 11.55 | 0.669 | 144.8 | 82.0 | 8.1 | 0.551 |
| 4-1630 | 4-1890 | 0.689 | 217.0 | -14.1 | 0.30 | 1.296 | 122.6 | 0.776 | 2.938 | 283.5 | 499.0 | 0.659 | --- | 10.36 | 0.607 | 140.8 | 82.8 | 8.2 | 0.482 |
| 4-1630 | 4-1910 | 0.651 | 217.4 | -12.2 | 1.45 | 1.274 | 121.2 | 0.734 | 2.522 | 283.9 | 503.4 | 0.672 | --- | 9.45 | 0.556 | 136.8 | 83.2 | 8.5 | 0.424 |
| 4-1630 | 4-1930 | 0.623 | 217.9 | -10.5 | 2.41 | 1.257 | 120.1 | 0.701 | 2.281 | 284.2 | 507.8 | 0.683 | --- | 8.73 | 0.513 | 132.5 | 83.0 | 8.8 | 0.375 |
| 4-1630 | 4-1950 | 0.602 | 218.4 | -8.9 | 3.24 | 1.245 | 119.2 | 0.675 | 2.128 | 284.4 | 511.9 | 0.691 | --- | 8.15 | 0.478 | 128.2 | 82.2 | 9.2 | 0.334 |
| 4-1630 | 4-1970 | 0.587 | 218.9 | -7.5 | 3.96 | 1.235 | 118.6 | 0.656 | 2.026 | 284.5 | 515.9 | 0.696 | --- | 7.68 | 0.449 | 123.7 | 80.9 | 9.6 | 0.300 |
| 4-1630 | 4-1990 | 0.577 | 219.5 | -6.3 | 4.59 | 1.228 | 118.2 | 0.642 | 1.955 | 284.4 | 519.7 | 0.700 | --- | 7.30 | 0.425 | 119.2 | 79.0 | 10.0 | 0.273 |
| 4-1630 | 4-2010 | 0.572 | 220.1 | -5.3 | 5.17 | 1.223 | 118.0 | 0.632 | 1.906 | 284.2 | 523.4 | 0.701 | --- | 6.99 | 0.406 | 114.7 | 76.4 | 10.3 | 0.251 |
| 4-1630 | 4-2030 | 0.570 | 220.7 | -4.4 | 5.70 | 1.219 | 117.9 | 0.626 | 1.871 | 283.7 | 526.8 | 0.700 | --- | 6.73 | 0.390 | 110.1 | 73.5 | 10.6 | 0.234 |
| 4-1630 | 4-2050 | 0.571 | 221.4 | -3.7 | 6.19 | 1.216 | 118.0 | 0.623 | 1.847 | 283.1 | 530.0 | 0.697 | --- | 6.53 | 0.378 | 105.6 | 70.2 | 10.7 | 0.222 |
| 4-1630 | 4-2070 | 0.575 | 222.1 | -3.2 | 6.65 | 1.214 | 118.2 | 0.622 | 1.830 | 282.4 | 533.0 | 0.692 | --- | 6.36 | 0.368 | 101.2 | 66.8 | 10.7 | 0.215 |
| 4-1630 | 4-2090 | 0.582 | 222.9 | -2.8 | 7.08 | 1.212 | 118.5 | 0.623 | 1.820 | 281.4 | 535.8 | 0.686 | --- | 6.23 | 0.361 | 96.8 | 63.5 | 10.6 | 0.212 |
| 4-1630 | 4-2110 | 0.591 | 223.6 | -2.5 | 7.50 | 1.212 | 119.0 | 0.627 | 1.814 | 280.3 | 538.5 | 0.677 | --- | 6.13 | 0.356 | 92.6 | 60.6 | 10.3 | 0.212 |
| 4-1630 | 4-2130 | 0.603 | 224.5 | -2.4 | 7.90 | 1.211 | 119.6 | 0.632 | 1.812 | 279.0 | 540.9 | 0.667 | 2.957 | 6.06 | 0.353 | 88.4 | 58.2 | 10.0 | 0.215 |
| 4-1630 | 4-2150 | 0.616 | 225.4 | -2.4 | 8.30 | 1.211 | 120.3 | 0.638 | 1.813 | 277.6 | 543.2 | 0.655 | 2.970 | 6.02 | 0.351 | 84.5 | 56.3 | 9.6 | 0.221 |
| 4-1630 | 4-2170 | 0.632 | 226.3 | -2.4 | 8.69 | 1.212 | 121.1 | 0.647 | 1.816 | 275.9 | 545.2 | 0.642 | 2.990 | 6.00 | 0.351 | 80.6 | 55.1 | 9.1 | 0.229 |
| 4-1630 | 4-2190 | 0.649 | 227.2 | -2.6 | 9.08 | 1.212 | 122.0 | 0.656 | 1.821 | 274.2 | 547.1 | 0.627 | 3.015 | 6.01 | 0.352 | 76.9 | 54.4 | 8.7 | 0.238 |
| 4-1630 | 4-2210 | 0.668 | 228.2 | -2.9 | 9.47 | 1.213 | 123.0 | 0.666 | 1.828 | 272.2 | 548.9 | 0.610 | 3.045 | 6.04 | 0.354 | 73.3 | 54.3 | 8.2 | 0.249 |
| 4-1630 | 4-2230 | 0.689 | 229.3 | -3.2 | 9.86 | 1.214 | 124.1 | 0.678 | 1.836 | 270.1 | 550.4 | 0.591 | 3.080 | 6.10 | 0.357 | 69.8 | 54.8 | 7.8 | 0.261 |
| 4-1630 | 4-2250 | 0.712 | 230.3 | -3.6 | 10.27 | 1.215 | 125.3 | 0.691 | 1.845 | 267.8 | 551.8 | 0.571 | 3.119 | 6.18 | 0.360 | 66.4 | 55.6 | 7.5 | 0.274 |
| 4-1630 | 4-2270 | 0.737 | 231.5 | -4.1 | 10.68 | 1.217 | 126.7 | 0.704 | 1.855 | 265.4 | 553.1 | 0.548 | 3.161 | 6.30 | 0.364 | 63.1 | 56.9 | 7.1 | 0.288 |
| 4-1630 | 4-2290 | 0.763 | 232.6 | -4.6 | 11.12 | 1.218 | 128.1 | 0.719 | 1.866 | 262.8 | 554.1 | 0.524 | 3.207 | 6.44 | 0.369 | 59.9 | 58.5 | 6.8 | 0.303 |
| 4-1630 | 4-2310 | 0.792 | 233.8 | -5.1 | 11.57 | 1.219 | 129.6 | 0.734 | 1.877 | 260.0 | 555.0 | 0.499 | 3.256 | 6.62 | 0.374 | 56.7 | 60.5 | 6.5 | 0.319 |
| 4-1630 | 4-2330 | 0.823 | 235.1 | -5.8 | 12.06 | 1.221 | 131.3 | 0.751 | 1.890 | 257.1 | 555.8 | 0.471 | 3.309 | 6.84 | 0.379 | 53.7 | 62.7 | 6.2 | 0.335 |
| 4-1630 | 4-2350 | 0.856 | 236.4 | -6.4 | 12.58 | 1.222 | 133.1 | 0.768 | 1.903 | 254.0 | 556.3 | 0.441 | 3.364 | 7.11 | 0.385 | 50.6 | 65.3 | 6.0 | 0.353 |
| 4-1630 | 4-2370 | 0.891 | 237.8 | -7.1 | 13.15 | 1.224 | 135.1 | 0.786 | 1.916 | 250.7 | 556.7 | 0.410 | 3.422 | 7.43 | 0.392 | 47.6 | 68.0 | 5.8 | 0.371 |
| 4-1630 | 4-2390 | 0.928 | 239.3 | -7.8 | 13.78 | 1.225 | 137.1 | 0.804 | 1.930 | 247.2 | 556.9 | 0.378 | 3.483 | 7.81 | 0.398 | 44.5 | 71.0 | 5.6 | 0.391 |
| 4-1630 | 4-2410 | 0.968 | 240.8 | -8.6 | 14.48 | 1.227 | 139.4 | 0.823 | 1.945 | 243.5 | 556.9 | 0.343 | 3.546 | 8.28 | 0.405 | 41.5 | 74.2 | 5.4 | 0.411 |
| 4-1630 | 4-2430 | 1.010 | 242.4 | -9.4 | 15.28 | 1.228 | 141.7 | 0.843 | 1.960 | 239.6 | 556.8 | 0.308 | 3.612 | 8.85 | 0.412 | 38.4 | 77.7 | 5.2 | 0.433 |
| 4-1630 | 4-2450 | 1.055 | 244.1 | -10.2 | 16.20 | 1.230 | 144.3 | 0.862 | 1.976 | 235.4 | 556.4 | 0.272 | 3.680 | 9.55 | 0.419 | 35.3 | 81.3 | 5.1 | 0.456 |
| 4-1630 | 4-2470 | 1.102 | 245.9 | -11.0 | 17.30 | 1.232 | 147.0 | 0.882 | 1.992 | 231.1 | 555.8 | 0.235 | 3.749 | 10.42 | 0.427 | 32.2 | 85.1 | 4.9 | 0.480 |
| 4-1630 | 4-2490 | 1.152 | 247.8 | -11.9 | 18.62 | 1.233 | 149.9 | 0.902 | 2.008 | 226.5 | 555.0 | 0.198 | 3.819 | 11.52 | 0.434 | 29.0 | 89.1 | 4.8 | 0.505 |
| 4-1630 | 4-2510 | 1.204 | 249.8 | -12.7 | 20.28 | 1.235 | 152.9 | 0.920 | 2.025 | 221.7 | 553.9 | 0.161 | 3.889 | 12.97 | 0.442 | 25.7 | 93.3 | 4.6 | 0.532 |
| 4-1630 | 4-2530 | 1.259 | 251.9 | -13.6 | 22.43 | 1.237 | 156.2 | 0.938 | 2.043 | 216.7 | 552.7 | 0.127 | 3.960 | 14.90 | 0.450 | 22.4 | 97.7 | 4.5 | 0.560 |
| 4-1630 | 4-2550 | 1.316 | 254.0 | -14.5 | 25.35 | 1.239 | 159.5 | 0.954 | 2.061 | 211.4 | 551.2 | 0.094 | 4.029 | 17.61 | 0.458 | 19.0 | 102.3 | 4.4 | 0.589 |
| 4-1630 | 4-2570 | 1.375 | 256.3 | -15.3 | 29.59 | 1.240 | 163.0 | 0.969 | 2.080 | 206.0 | 549.6 | 0.065 | 4.095 | 21.63 | 0.466 | 15.6 | 107.1 | 4.3 | 0.620 |
| 4-1640 | 4-1860 | 0.764 | 222.9 | -21.0 | -2.92 | 1.370 | 123.9 | 0.903 | 6.820 | 288.0 | 487.4 | 0.665 | --- | 13.32 | 0.754 | 147.8 | 84.1 | 8.4 | 0.633 |
| 4-1640 | 4-1880 | 0.700 | 223.6 | -17.5 | -0.52 | 1.332 | 121.8 | 0.829 | 3.988 | 288.7 | 492.1 | 0.684 | --- | 11.08 | 0.678 | 144.1 | 85.5 | 8.0 | 0.549 |
| 4-1640 | 4-1900 | 0.652 | 224.1 | -14.7 | 1.19 | 1.303 | 120.1 | 0.771 | 3.058 | 289.3 | 496.8 | 0.700 | --- | 9.54 | 0.616 | 140.3 | 86.5 | 7.8 | 0.479 |
| 4-1640 | 4-1920 | 0.615 | 224.7 | -12.2 | 2.48 | 1.281 | 118.7 | 0.726 | 2.606 | 289.8 | 501.3 | 0.714 | --- | 8.41 | 0.565 | 136.3 | 87.0 | 7.8 | 0.421 |
| 4-1640 | 4-1940 | 0.588 | 225.2 | -10.1 | 3.49 | 1.264 | 117.6 | 0.691 | 2.346 | 290.3 | 505.7 | 0.724 | --- | 7.57 | 0.523 | 132.2 | 87.0 | 7.9 | 0.372 |
| 4-1640 | 4-1960 | 0.567 | 225.7 | -8.3 | 4.32 | 1.251 | 116.8 | 0.664 | 2.182 | 290.6 | 510.0 | 0.732 | --- | 6.91 | 0.488 | 128.0 | 86.5 | 8.0 | 0.331 |
| 4-1640 | 4-1980 | 0.552 | 226.1 | -6.8 | 5.01 | 1.242 | 116.1 | 0.644 | 2.073 | 290.8 | 514.1 | 0.738 | --- | 6.39 | 0.459 | 123.7 | 85.3 | 8.2 | 0.296 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1640 | 4-2000 | 0.542 | 226.7 | -5.5 | 5.60 | 1.234 | 115.7 | 0.628 | 1.997 | 290.8 | 518.0 | 0.742 | --- | 5.97 | 0.436 | 119.4 | 83.6 | 8.5 | 0.268 |
| 4-1640 | 4-2020 | 0.536 | 227.2 | -4.4 | 6.12 | 1.229 | 115.4 | 0.617 | 1.944 | 290.6 | 521.7 | 0.744 | --- | 5.64 | 0.416 | 115.0 | 81.4 | 8.7 | 0.245 |
| 4-1640 | 4-2040 | 0.533 | 227.8 | -3.5 | 6.58 | 1.224 | 115.3 | 0.610 | 1.906 | 290.3 | 525.3 | 0.744 | --- | 5.36 | 0.401 | 110.7 | 78.6 | 8.9 | 0.227 |
| 4-1640 | 4-2060 | 0.534 | 228.4 | -2.8 | 7.00 | 1.221 | 115.3 | 0.605 | 1.880 | 289.8 | 528.6 | 0.742 | --- | 5.13 | 0.389 | 106.4 | 75.4 | 8.9 | 0.214 |
| 4-1640 | 4-2080 | 0.537 | 229.0 | -2.3 | 7.39 | 1.219 | 115.4 | 0.603 | 1.861 | 289.2 | 531.7 | 0.739 | --- | 4.94 | 0.379 | 102.2 | 72.0 | 8.9 | 0.206 |
| 4-1640 | 4-2100 | 0.542 | 229.7 | -1.9 | 7.74 | 1.218 | 115.7 | 0.603 | 1.849 | 288.3 | 534.6 | 0.733 | --- | 4.79 | 0.372 | 98.0 | 68.7 | 8.8 | 0.201 |
| 4-1640 | 4-2120 | 0.550 | 230.5 | -1.7 | 8.07 | 1.217 | 116.1 | 0.606 | 1.842 | 287.3 | 537.4 | 0.727 | --- | 4.66 | 0.367 | 94.0 | 65.6 | 8.6 | 0.200 |
| 4-1640 | 4-2140 | 0.559 | 231.2 | -1.6 | 8.39 | 1.217 | 116.6 | 0.609 | 1.839 | 286.2 | 539.9 | 0.718 | --- | 4.57 | 0.363 | 90.1 | 62.9 | 8.3 | 0.201 |
| 4-1640 | 4-2160 | 0.571 | 232.0 | -1.7 | 8.69 | 1.216 | 117.2 | 0.615 | 1.838 | 284.8 | 542.3 | 0.708 | 2.969 | 4.49 | 0.361 | 86.3 | 60.8 | 7.9 | 0.205 |
| 4-1640 | 4-2180 | 0.584 | 232.9 | -1.8 | 8.99 | 1.217 | 117.9 | 0.621 | 1.841 | 283.3 | 544.5 | 0.697 | 2.984 | 4.44 | 0.361 | 82.7 | 59.2 | 7.5 | 0.212 |
| 4-1640 | 4-2200 | 0.599 | 233.8 | -2.1 | 9.28 | 1.217 | 118.7 | 0.629 | 1.845 | 281.7 | 546.5 | 0.684 | 3.006 | 4.40 | 0.361 | 79.2 | 58.2 | 7.1 | 0.220 |
| 4-1640 | 4-2220 | 0.615 | 234.7 | -2.4 | 9.56 | 1.218 | 119.6 | 0.638 | 1.850 | 279.8 | 548.4 | 0.669 | 3.032 | 4.38 | 0.363 | 75.8 | 57.8 | 6.7 | 0.229 |
| 4-1640 | 4-2240 | 0.634 | 235.7 | -2.8 | 9.84 | 1.219 | 120.5 | 0.649 | 1.858 | 277.9 | 550.1 | 0.653 | 3.063 | 4.39 | 0.365 | 72.5 | 57.9 | 6.4 | 0.240 |
| 4-1640 | 4-2260 | 0.654 | 236.7 | -3.3 | 10.12 | 1.220 | 121.6 | 0.660 | 1.866 | 275.8 | 551.7 | 0.635 | 3.097 | 4.41 | 0.368 | 69.3 | 58.5 | 6.0 | 0.251 |
| 4-1640 | 4-2280 | 0.675 | 237.7 | -3.8 | 10.41 | 1.221 | 122.8 | 0.672 | 1.875 | 273.5 | 553.1 | 0.615 | 3.135 | 4.45 | 0.372 | 66.2 | 59.5 | 5.7 | 0.264 |
| 4-1640 | 4-2300 | 0.699 | 238.8 | -4.4 | 10.71 | 1.222 | 124.1 | 0.685 | 1.885 | 271.1 | 554.3 | 0.594 | 3.177 | 4.50 | 0.377 | 63.2 | 60.9 | 5.5 | 0.277 |
| 4-1640 | 4-2320 | 0.724 | 240.0 | -5.0 | 11.01 | 1.223 | 125.5 | 0.697 | 1.896 | 268.5 | 555.4 | 0.571 | 3.222 | 4.58 | 0.381 | 60.3 | 62.7 | 5.2 | 0.292 |
| 4-1640 | 4-2340 | 0.751 | 241.2 | -5.7 | 11.33 | 1.225 | 126.9 | 0.714 | 1.908 | 265.7 | 556.4 | 0.546 | 3.270 | 4.69 | 0.387 | 57.4 | 64.7 | 5.0 | 0.307 |
| 4-1640 | 4-2360 | 0.780 | 242.4 | -6.4 | 11.66 | 1.226 | 128.6 | 0.730 | 1.920 | 262.8 | 557.2 | 0.519 | 3.321 | 4.81 | 0.392 | 54.6 | 67.0 | 4.8 | 0.323 |
| 4-1640 | 4-2380 | 0.811 | 243.8 | -7.1 | 12.01 | 1.227 | 130.3 | 0.746 | 1.933 | 259.7 | 557.8 | 0.490 | 3.375 | 4.97 | 0.398 | 51.8 | 69.5 | 4.6 | 0.339 |
| 4-1640 | 4-2400 | 0.844 | 245.1 | -7.9 | 12.39 | 1.229 | 132.1 | 0.764 | 1.946 | 256.4 | 558.2 | 0.460 | 3.432 | 5.16 | 0.404 | 49.0 | 72.3 | 4.4 | 0.357 |
| 4-1640 | 4-2420 | 0.880 | 246.6 | -8.7 | 12.81 | 1.230 | 134.1 | 0.782 | 1.960 | 253.0 | 558.5 | 0.428 | 3.492 | 5.39 | 0.411 | 46.2 | 75.3 | 4.2 | 0.376 |
| 4-1640 | 4-2440 | 0.918 | 248.1 | -9.5 | 13.27 | 1.232 | 136.3 | 0.801 | 1.974 | 249.3 | 558.6 | 0.394 | 3.554 | 5.67 | 0.417 | 43.4 | 78.6 | 4.1 | 0.395 |
| 4-1640 | 4-2460 | 0.958 | 249.7 | -10.3 | 13.78 | 1.233 | 138.5 | 0.820 | 1.988 | 245.4 | 558.5 | 0.358 | 3.619 | 6.01 | 0.424 | 40.5 | 82.0 | 4.0 | 0.416 |
| 4-1640 | 4-2480 | 1.001 | 251.4 | -11.1 | 14.37 | 1.235 | 141.0 | 0.840 | 2.003 | 241.3 | 558.2 | 0.321 | 3.686 | 6.42 | 0.431 | 37.6 | 85.6 | 3.8 | 0.438 |
| 4-1640 | 4-2500 | 1.047 | 253.2 | -12.0 | 15.05 | 1.236 | 143.6 | 0.860 | 2.019 | 237.0 | 557.7 | 0.282 | 3.755 | 6.93 | 0.439 | 34.6 | 89.4 | 3.7 | 0.462 |
| 4-1640 | 4-2520 | 1.095 | 255.1 | -12.9 | 15.85 | 1.238 | 146.4 | 0.880 | 2.035 | 232.4 | 557.0 | 0.243 | 3.826 | 7.58 | 0.446 | 31.6 | 93.4 | 3.6 | 0.487 |
| 4-1640 | 4-2540 | 1.146 | 257.1 | -13.7 | 16.84 | 1.239 | 149.4 | 0.900 | 2.051 | 227.6 | 556.0 | 0.204 | 3.898 | 8.40 | 0.454 | 28.4 | 97.6 | 3.5 | 0.513 |
| 4-1640 | 4-2560 | 1.200 | 259.2 | -14.6 | 18.08 | 1.241 | 152.6 | 0.920 | 2.068 | 222.5 | 554.8 | 0.166 | 3.971 | 9.48 | 0.462 | 25.2 | 102.0 | 3.4 | 0.541 |
| 4-1640 | 4-2580 | 1.257 | 261.4 | -15.4 | 19.71 | 1.243 | 156.0 | 0.938 | 2.086 | 217.1 | 553.4 | 0.128 | 4.043 | 10.95 | 0.469 | 21.8 | 106.6 | 3.3 | 0.570 |
| 4-1640 | 4-2600 | 1.316 | 263.8 | -16.2 | 21.96 | 1.244 | 159.6 | 0.955 | 2.104 | 211.5 | 551.7 | 0.094 | 4.114 | 13.04 | 0.477 | 18.4 | 111.3 | 3.2 | 0.601 |
| 4-1640 | 4-2620 | 1.377 | 266.3 | -17.0 | 25.32 | 1.246 | 163.4 | 0.970 | 2.123 | 205.7 | 549.8 | 0.063 | 4.182 | 16.24 | 0.486 | 14.8 | 116.3 | 3.1 | 0.633 |
| 4-1650 | 4-1870 | 0.724 | 229.6 | -23.3 | -3.00 | 1.376 | 121.2 | 0.904 | 7.379 | 293.8 | 485.1 | 0.707 | --- | 13.53 | 0.760 | 147.0 | 87.3 | 8.8 | 0.630 |
| 4-1650 | 4-1890 | 0.661 | 230.7 | -17.4 | 0.65 | 1.337 | 119.2 | 0.826 | 4.172 | 294.6 | 489.9 | 0.726 | --- | 9.98 | 0.685 | 143.4 | 88.9 | 7.5 | 0.545 |
| 4-1650 | 4-1910 | 0.615 | 231.5 | -13.3 | 2.78 | 1.308 | 117.5 | 0.766 | 3.163 | 295.3 | 494.7 | 0.742 | --- | 7.94 | 0.624 | 139.7 | 90.0 | 6.7 | 0.475 |
| 4-1650 | 4-1930 | 0.580 | 232.1 | -10.3 | 4.19 | 1.286 | 116.2 | 0.718 | 2.680 | 296.0 | 499.4 | 0.755 | --- | 6.63 | 0.573 | 135.8 | 90.6 | 6.4 | 0.417 |
| 4-1650 | 4-1950 | 0.554 | 232.6 | -7.9 | 5.19 | 1.270 | 115.1 | 0.682 | 2.405 | 296.5 | 503.9 | 0.765 | --- | 5.72 | 0.531 | 131.8 | 90.8 | 6.2 | 0.368 |
| 4-1650 | 4-1970 | 0.534 | 233.1 | -5.9 | 5.96 | 1.257 | 114.2 | 0.653 | 2.231 | 296.9 | 508.3 | 0.773 | --- | 5.06 | 0.497 | 127.7 | 90.4 | 6.1 | 0.326 |
| 4-1650 | 4-1990 | 0.520 | 233.5 | -4.3 | 6.56 | 1.247 | 113.5 | 0.632 | 2.115 | 297.2 | 512.5 | 0.779 | --- | 4.56 | 0.468 | 123.6 | 89.5 | 6.1 | 0.292 |
| 4-1650 | 4-2010 | 0.510 | 233.9 | -2.9 | 7.05 | 1.240 | 113.1 | 0.615 | 2.035 | 297.3 | 516.5 | 0.783 | --- | 4.17 | 0.445 | 119.4 | 88.0 | 6.1 | 0.263 |
| 4-1650 | 4-2030 | 0.504 | 234.4 | -1.9 | 7.46 | 1.234 | 112.8 | 0.603 | 1.979 | 297.3 | 520.3 | 0.786 | --- | 3.86 | 0.426 | 115.2 | 85.9 | 6.2 | 0.240 |
| 4-1650 | 4-2050 | 0.500 | 234.9 | -1.1 | 7.81 | 1.230 | 112.6 | 0.595 | 1.939 | 297.1 | 523.9 | 0.786 | --- | 3.60 | 0.410 | 111.0 | 83.3 | 6.3 | 0.221 |
| 4-1650 | 4-2070 | 0.500 | 235.4 | -0.5 | 8.12 | 1.226 | 112.6 | 0.589 | 1.910 | 296.7 | 527.3 | 0.785 | --- | 3.40 | 0.398 | 106.9 | 80.3 | 6.3 | 0.207 |
| 4-1650 | 4-2090 | 0.502 | 235.9 | -0.1 | 8.40 | 1.224 | 112.7 | 0.586 | 1.890 | 296.1 | 530.5 | 0.782 | --- | 3.23 | 0.388 | 102.9 | 76.9 | 6.2 | 0.197 |
| 4-1650 | 4-2110 | 0.506 | 236.5 | 0.2 | 8.65 | 1.223 | 112.9 | 0.585 | 1.877 | 295.4 | 533.5 | 0.778 | --- | 3.09 | 0.381 | 98.9 | 73.6 | 6.1 | 0.191 |
| 4-1650 | 4-2130 | 0.512 | 237.2 | 0.2 | 8.88 | 1.222 | 113.2 | 0.586 | 1.869 | 294.5 | 536.4 | 0.773 | --- | 2.98 | 0.376 | 95.1 | 70.4 | 5.9 | 0.189 |
| 4-1650 | 4-2150 | 0.520 | 237.9 | 0.2 | 9.09 | 1.221 | 113.7 | 0.589 | 1.864 | 293.4 | 539.0 | 0.766 | --- | 2.88 | 0.373 | 91.4 | 67.5 | 5.7 | 0.189 |
| 4-1650 | 4-2170 | 0.529 | 238.6 | 0.0 | 9.29 | 1.221 | 114.2 | 0.593 | 1.863 | 292.1 | 541.5 | 0.757 | 2.969 | 2.81 | 0.371 | 87.8 | 65.1 | 5.4 | 0.192 |
| 4-1650 | 4-2190 | 0.541 | 239.4 | -0.3 | 9.48 | 1.221 | 114.8 | 0.599 | 1.864 | 290.7 | 543.8 | 0.748 | 2.981 | 2.75 | 0.370 | 84.4 | 63.3 | 5.1 | 0.197 |
| 4-1650 | 4-2210 | 0.553 | 240.2 | -0.7 | 9.66 | 1.222 | 115.5 | 0.606 | 1.868 | 289.2 | 546.0 | 0.737 | 2.999 | 2.70 | 0.370 | 81.0 | 62.0 | 4.8 | 0.204 |
| 4-1650 | 4-2230 | 0.567 | 241.1 | -1.1 | 9.84 | 1.222 | 116.3 | 0.613 | 1.873 | 287.5 | 547.9 | 0.724 | 3.022 | 2.66 | 0.372 | 77.8 | 61.3 | 4.6 | 0.212 |
| 4-1650 | 4-2250 | 0.583 | 242.0 | -1.7 | 10.01 | 1.223 | 117.2 | 0.622 | 1.879 | 285.6 | 549.8 | 0.710 | 3.049 | 2.64 | 0.374 | 74.7 | 61.2 | 4.3 | 0.222 |
| 4-1650 | 4-2270 | 0.600 | 242.9 | -2.3 | 10.18 | 1.224 | 118.1 | 0.632 | 1.887 | 283.6 | 551.5 | 0.695 | 3.079 | 2.63 | 0.377 | 71.7 | 61.5 | 4.1 | 0.232 |
| 4-1650 | 4-2290 | 0.619 | 243.9 | -2.9 | 10.35 | 1.225 | 119.2 | 0.643 | 1.896 | 281.5 | 553.0 | 0.677 | 3.114 | 2.63 | 0.380 | 68.8 | 62.3 | 3.8 | 0.243 |
| 4-1650 | 4-2310 | 0.639 | 245.0 | -3.6 | 10.52 | 1.226 | 120.3 | 0.654 | 1.905 | 279.2 | 554.4 | 0.659 | 3.152 | 2.64 | 0.384 | 66.0 | 63.5 | 3.6 | 0.255 |
| 4-1650 | 4-2330 | 0.661 | 246.1 | -4.3 | 10.69 | 1.227 | 121.5 | 0.667 | 1.915 | 276.8 | 555.7 | 0.638 | 3.192 | 2.66 | 0.389 | 63.3 | 65.0 | 3.4 | 0.268 |
| 4-1650 | 4-2350 | 0.685 | 247.2 | -5.1 | 10.87 | 1.228 | 122.9 | 0.680 | 1.926 | 274.2 | 556.8 | 0.616 | 3.236 | 2.69 | 0.394 | 60.6 | 66.8 | 3.3 | 0.282 |
| 4-1650 | 4-2370 | 0.710 | 248.4 | -5.9 | 11.05 | 1.229 | 124.3 | 0.694 | 1.938 | 271.5 | 557.8 | 0.592 | 3.283 | 2.74 | 0.399 | 58.0 | 68.9 | 3.1 | 0.296 |
| 4-1650 | 4-2390 | 0.738 | 249.7 | -6.7 | 11.24 | 1.231 | 125.8 | 0.709 | 1.950 | 268.6 | 558.6 | 0.567 | 3.333 | 2.80 | 0.405 | 55.4 | 71.3 | 3.0 | 0.312 |
| 4-1650 | 4-2410 | 0.767 | 251.0 | -7.5 | 11.44 | 1.232 | 127.5 | 0.725 | 1.962 | 265.5 | 559.3 | 0.539 | 3.386 | 2.87 | 0.410 | 52.8 | 73.9 | 2.9 | 0.328 |
| 4-1650 | 4-2430 | 0.798 | 252.4 | -8.4 | 11.65 | 1.233 | 129.3 | 0.742 | 1.975 | 262.2 | 559.8 | 0.509 | 3.441 | 2.96 | 0.417 | 50.2 | 76.7 | 2.8 | 0.345 |
| 4-1650 | 4-2450 | 0.832 | 253.9 | -9.2 | 11.88 | 1.235 | 131.2 | 0.760 | 1.989 | 258.8 | 560.1 | 0.478 | 3.500 | 3.08 | 0.423 | 47.6 | 79.7 | 2.7 | 0.362 |
| 4-1650 | 4-2470 | 0.868 | 255.4 | -10.1 | 12.13 | 1.236 | 133.2 | 0.778 | 2.002 | 255.2 | 560.3 | 0.444 | 3.561 | 3.21 | 0.430 | 45.0 | 83.0 | 2.6 | 0.381 |
| 4-1650 | 4-2490 | 0.907 | 257.0 | -11.0 | 12.41 | 1.238 | 135.4 | 0.797 | 2.017 | 251.3 | 560.3 | 0.409 | 3.625 | 3.38 | 0.437 | 42.4 | 86.4 | 2.5 | 0.402 |
| 4-1650 | 4-2510 | 0.948 | 258.7 | -11.9 | 12.72 | 1.239 | 137.8 | 0.817 | 2.031 | 247.3 | 560.1 | 0.371 | 3.691 | 3.58 | 0.444 | 39.6 | 90.0 | 2.4 | 0.423 |
| 4-1650 | 4-2530 | 0.992 | 260.5 | -12.7 | 13.07 | 1.241 | 140.3 | 0.838 | 2.046 | 242.9 | 559.7 | 0.332 | 3.760 | 3.83 | 0.451 | 36.8 | 93.8 | 2.3 | 0.446 |
| 4-1650 | 4-2550 | 1.038 | 262.4 | -13.6 | 13.49 | 1.242 | 143.0 | 0.858 | 2.062 | 238.4 | 559.0 | 0.292 | 3.831 | 4.15 | 0.458 | 34.0 | 97.8 | 2.3 | 0.470 |
| 4-1650 | 4-2570 | 1.088 | 264.5 | -14.5 | 13.98 | 1.244 | 146.0 | 0.879 | 2.077 | 233.6 | 558.2 | 0.251 | 3.904 | 4.54 | 0.466 | 31.0 | 102.0 | 2.2 | 0.496 |
| 4-1650 | 4-2590 | 1.141 | 266.6 | -15.3 | 14.59 | 1.245 | 149.1 | 0.900 | 2.094 | 228.5 | 557.0 | 0.209 | 3.978 | 5.05 | 0.473 | 27.9 | 106.4 | 2.1 | 0.523 |
| 4-1650 | 4-2610 | 1.197 | 268.9 | -16.1 | 15.36 | 1.247 | 152.5 | 0.920 | 2.111 | 223.1 | 555.7 | 0.168 | 4.053 | 5.72 | 0.481 | 24.6 | 111.0 | 2.1 | 0.552 |
| 4-1650 | 4-2630 | 1.256 | 271.3 | -16.9 | 16.39 | 1.248 | 156.1 | 0.940 | 2.128 | 217.3 | 554.0 | 0.129 | 4.127 | 6.65 | 0.489 | 21.2 | 115.7 | 2.0 | 0.583 |
| 4-1650 | 4-2650 | 1.318 | 273.9 | -17.7 | 17.84 | 1.250 | 159.9 | 0.957 | 2.146 | 211.3 | 552.1 | 0.092 | 4.200 | 8.00 | 0.496 | 17.7 | 120.7 | 2.0 | 0.616 |
| 4-1660 | 4-1880 | 0.682 | 235.8 | -26.6 | -3.73 | 1.379 | 118.4 | 0.904 | 7.804 | 299.8 | 483.0 | 0.750 | --- | 14.33 | 0.763 | 146.2 | 90.2 | 9.7 | 0.626 |
| 4-1660 | 4-1900 | 0.624 | 238.9 | -11.8 | 4.37 | 1.341 | 116.5 | 0.822 | 4.315 | 300.7 | 488.0 | 0.768 | --- | 6.26 | 0.689 | 142.7 | 92.5 | 4.9 | 0.536 |
| 4-1660 | 4-1920 | 0.586 | 240.0 | -6.7 | 6.63 | 1.313 | 114.8 | 0.759 | 3.247 | 301.6 | 492.8 | 0.782 | --- | 4.02 | 0.629 | 139.0 | 93.6 | 3.6 | 0.467 |
| 4-1660 | 4-1940 | 0.555 | 240.5 | -3.7 | 7.70 | 1.291 | 113.5 | 0.710 | 2.742 | 302.3 | 497.6 | 0.795 | --- | 2.98 | 0.579 | 135.2 | 94.2 | 3.0 | 0.410 |
| 4-1660 | 4-1960 | 0.530 | 240.8 | -1.6 | 8.33 | 1.274 | 112.4 | 0.672 | 2.454 | 303.0 | 502.2 | 0.804 | --- | 2.38 | 0.538 | 131.3 | 94.4 | 2.7 | 0.362 |
| 4-1660 | 4-1980 | 0.511 | 241.0 | 0.1 | 8.74 | 1.261 | 111.6 | 0.643 | 2.273 | 303.5 | 506.7 | 0.812 | --- | 1.99 | 0.504 | 127.3 | 94.1 | 2.5 | 0.321 |
| 4-1660 | 4-2000 | 0.497 | 241.3 | 1.3 | 9.04 | 1.251 | 110.9 | 0.620 | 2.153 | 303.9 | 511.0 | 0.818 | --- | 1.72 | 0.476 | 123.3 | 93.3 | 2.4 | 0.287 |
| 4-1660 | 4-2020 | 0.486 | 241.5 | 2.3 | 9.27 | 1.244 | 110.5 | 0.603 | 2.069 | 304.1 | 515.1 | 0.822 | --- | 1.53 | 0.452 | 119.2 | 91.9 | 2.3 | 0.258 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1660 | 4-2040 | 0.479 | 241.7 | 3.0 | 9.45 | 1.238 | 110.1 | 0.590 | 2.010 | 304.2 | 519.0 | 0.825 | --- | 1.38 | 0.434 | 115.2 | 90.0 | 2.3 | 0.234 |
| 4-1660 | 4-2060 | 0.475 | 242.0 | 3.5 | 9.60 | 1.234 | 110.0 | 0.581 | 1.968 | 304.0 | 522.7 | 0.826 | --- | 1.26 | 0.418 | 111.2 | 87.5 | 2.3 | 0.215 |
| 4-1660 | 4-2080 | 0.473 | 242.4 | 3.8 | 9.72 | 1.231 | 109.9 | 0.574 | 1.938 | 303.7 | 526.2 | 0.825 | --- | 1.16 | 0.406 | 107.2 | 84.6 | 2.3 | 0.201 |
| 4-1660 | 4-2100 | 0.473 | 242.8 | 4.0 | 9.83 | 1.228 | 110.0 | 0.571 | 1.917 | 303.2 | 529.5 | 0.823 | --- | 1.09 | 0.397 | 103.3 | 81.4 | 2.2 | 0.190 |
| 4-1660 | 4-2120 | 0.476 | 243.2 | 3.9 | 9.92 | 1.227 | 110.2 | 0.569 | 1.903 | 302.6 | 532.6 | 0.820 | --- | 1.03 | 0.390 | 99.6 | 78.0 | 2.2 | 0.183 |
| 4-1660 | 4-2140 | 0.480 | 243.8 | 3.7 | 10.00 | 1.226 | 110.4 | 0.569 | 1.893 | 301.7 | 535.5 | 0.816 | --- | 0.98 | 0.384 | 95.9 | 74.8 | 2.1 | 0.180 |
| 4-1660 | 4-2160 | 0.486 | 244.3 | 3.4 | 10.08 | 1.225 | 110.8 | 0.571 | 1.888 | 300.7 | 538.2 | 0.810 | --- | 0.93 | 0.381 | 92.3 | 71.8 | 2.0 | 0.179 |
| 4-1660 | 4-2180 | 0.493 | 245.0 | 3.0 | 10.15 | 1.225 | 111.3 | 0.574 | 1.886 | 299.6 | 540.8 | 0.803 | 2.970 | 0.90 | 0.379 | 88.9 | 69.2 | 1.9 | 0.181 |
| 4-1660 | 4-2200 | 0.502 | 245.7 | 2.5 | 10.21 | 1.225 | 111.8 | 0.579 | 1.887 | 298.3 | 543.2 | 0.795 | 2.979 | 0.87 | 0.378 | 85.6 | 67.2 | 1.8 | 0.185 |
| 4-1660 | 4-2220 | 0.512 | 246.4 | 1.9 | 10.27 | 1.225 | 112.4 | 0.584 | 1.890 | 296.8 | 545.4 | 0.785 | 2.994 | 0.84 | 0.378 | 82.5 | 65.7 | 1.7 | 0.191 |
| 4-1660 | 4-2240 | 0.524 | 247.2 | 1.2 | 10.33 | 1.226 | 113.1 | 0.591 | 1.894 | 295.2 | 547.5 | 0.775 | 3.014 | 0.83 | 0.379 | 79.4 | 64.8 | 1.6 | 0.198 |
| 4-1660 | 4-2260 | 0.537 | 248.1 | 0.4 | 10.38 | 1.227 | 113.9 | 0.599 | 1.900 | 293.4 | 549.4 | 0.763 | 3.038 | 0.81 | 0.381 | 76.5 | 64.4 | 1.5 | 0.206 |
| 4-1660 | 4-2280 | 0.552 | 249.0 | -0.4 | 10.43 | 1.227 | 114.8 | 0.607 | 1.907 | 291.6 | 551.2 | 0.750 | 3.065 | 0.80 | 0.384 | 73.7 | 64.5 | 1.4 | 0.216 |
| 4-1660 | 4-2300 | 0.568 | 250.0 | -1.2 | 10.49 | 1.228 | 115.7 | 0.616 | 1.916 | 289.5 | 552.9 | 0.735 | 3.096 | 0.79 | 0.387 | 71.0 | 65.1 | 1.3 | 0.226 |
| 4-1660 | 4-2320 | 0.585 | 251.0 | -2.0 | 10.54 | 1.229 | 116.7 | 0.627 | 1.925 | 287.4 | 554.4 | 0.719 | 3.130 | 0.79 | 0.391 | 68.3 | 66.1 | 1.2 | 0.237 |
| 4-1660 | 4-2340 | 0.604 | 252.0 | -2.9 | 10.59 | 1.230 | 117.8 | 0.638 | 1.934 | 285.1 | 555.8 | 0.701 | 3.168 | 0.79 | 0.396 | 65.8 | 67.4 | 1.1 | 0.249 |
| 4-1660 | 4-2360 | 0.624 | 253.1 | -3.8 | 10.64 | 1.231 | 119.0 | 0.649 | 1.945 | 282.6 | 557.1 | 0.682 | 3.208 | 0.79 | 0.400 | 63.3 | 69.1 | 1.1 | 0.261 |
| 4-1660 | 4-2380 | 0.646 | 254.3 | -4.8 | 10.69 | 1.233 | 120.3 | 0.662 | 1.956 | 280.0 | 558.2 | 0.661 | 3.251 | 0.79 | 0.406 | 60.8 | 71.0 | 1.0 | 0.274 |
| 4-1660 | 4-2400 | 0.670 | 255.5 | -5.7 | 10.74 | 1.234 | 121.7 | 0.676 | 1.967 | 277.3 | 559.2 | 0.638 | 3.296 | 0.80 | 0.411 | 58.4 | 73.2 | 1.0 | 0.288 |
| 4-1660 | 4-2420 | 0.696 | 256.8 | -6.7 | 10.80 | 1.235 | 123.2 | 0.690 | 1.979 | 274.4 | 560.1 | 0.614 | 3.345 | 0.82 | 0.417 | 56.0 | 75.6 | 0.9 | 0.302 |
| 4-1660 | 4-2440 | 0.723 | 258.2 | -7.6 | 10.86 | 1.236 | 124.8 | 0.705 | 1.991 | 271.3 | 560.8 | 0.587 | 3.396 | 0.83 | 0.423 | 53.7 | 78.3 | 0.9 | 0.318 |
| 4-1660 | 4-2460 | 0.753 | 259.6 | -8.6 | 10.92 | 1.238 | 126.5 | 0.721 | 2.004 | 268.1 | 561.4 | 0.558 | 3.450 | 0.86 | 0.429 | 51.3 | 81.2 | 0.9 | 0.334 |
| 4-1660 | 4-2480 | 0.785 | 261.1 | -9.5 | 10.98 | 1.239 | 128.3 | 0.738 | 2.017 | 264.7 | 561.8 | 0.528 | 3.507 | 0.88 | 0.435 | 48.9 | 84.2 | 0.8 | 0.351 |
| 4-1660 | 4-2500 | 0.819 | 262.6 | -10.5 | 11.05 | 1.240 | 130.3 | 0.756 | 2.031 | 261.1 | 562.0 | 0.495 | 3.567 | 0.92 | 0.442 | 46.5 | 87.5 | 0.8 | 0.369 |
| 4-1660 | 4-2520 | 0.856 | 264.3 | -11.4 | 11.13 | 1.242 | 132.4 | 0.775 | 2.045 | 257.3 | 562.1 | 0.460 | 3.629 | 0.96 | 0.449 | 44.0 | 90.9 | 0.8 | 0.389 |
| 4-1660 | 4-2540 | 0.895 | 266.0 | -12.3 | 11.21 | 1.243 | 134.6 | 0.795 | 2.059 | 253.2 | 562.0 | 0.423 | 3.695 | 1.01 | 0.456 | 41.5 | 94.6 | 0.7 | 0.409 |
| 4-1660 | 4-2560 | 0.937 | 267.9 | -13.2 | 11.30 | 1.244 | 137.1 | 0.815 | 2.073 | 248.9 | 561.6 | 0.384 | 3.763 | 1.07 | 0.463 | 38.9 | 98.4 | 0.7 | 0.431 |
| 4-1660 | 4-2580 | 0.983 | 269.8 | -14.1 | 11.41 | 1.246 | 139.7 | 0.836 | 2.088 | 244.4 | 561.1 | 0.343 | 3.834 | 1.15 | 0.470 | 36.2 | 102.4 | 0.7 | 0.455 |
| 4-1660 | 4-2600 | 1.031 | 271.9 | -15.0 | 11.54 | 1.247 | 142.6 | 0.857 | 2.104 | 239.6 | 560.3 | 0.300 | 3.907 | 1.24 | 0.477 | 33.4 | 106.6 | 0.7 | 0.480 |
| 4-1660 | 4-2620 | 1.083 | 274.1 | -15.8 | 11.69 | 1.249 | 145.6 | 0.879 | 2.119 | 234.5 | 559.3 | 0.257 | 3.982 | 1.36 | 0.485 | 30.4 | 111.0 | 0.7 | 0.507 |
| 4-1660 | 4-2640 | 1.138 | 276.4 | -16.6 | 11.88 | 1.250 | 148.9 | 0.900 | 2.136 | 229.1 | 558.0 | 0.213 | 4.058 | 1.52 | 0.492 | 27.3 | 115.5 | 0.6 | 0.536 |
| 4-1660 | 4-2660 | 1.196 | 278.9 | -17.3 | 12.12 | 1.251 | 152.4 | 0.921 | 2.152 | 223.4 | 556.4 | 0.169 | 4.135 | 1.73 | 0.500 | 24.1 | 120.3 | 0.6 | 0.566 |
| 4-1670 | 4-1890 | 0.634 | 242.5 | -25.0 | -1.99 | 1.381 | 115.4 | 0.901 | 8.013 | 306.1 | 481.1 | 0.792 | --- | 12.58 | 0.764 | 145.3 | 93.5 | 8.9 | 0.615 |
| 4-1670 | 4-1930 | 0.768 | 263.3 | 26.8 | 28.84 | 1.315 | 112.1 | 0.752 | 3.305 | 307.8 | 491.3 | 0.821 | --- | -18.32 | 0.632 | 138.3 | 94.2 | -15.8 | 0.486 |
| 4-1670 | 4-1950 | 0.615 | 254.7 | 17.3 | 18.97 | 1.294 | 110.8 | 0.701 | 2.787 | 308.8 | 496.1 | 0.832 | --- | -8.49 | 0.583 | 134.5 | 96.7 | -8.6 | 0.410 |
| 4-1670 | 4-1970 | 0.558 | 252.3 | 14.3 | 15.98 | 1.277 | 109.7 | 0.662 | 2.492 | 309.6 | 500.9 | 0.842 | --- | -5.54 | 0.542 | 130.7 | 97.3 | -6.3 | 0.360 |
| 4-1670 | 4-1990 | 0.524 | 251.0 | 13.0 | 14.54 | 1.265 | 108.9 | 0.632 | 2.307 | 310.2 | 505.5 | 0.849 | --- | -4.13 | 0.509 | 126.8 | 97.2 | -5.3 | 0.318 |
| 4-1670 | 4-2010 | 0.501 | 250.3 | 12.4 | 13.68 | 1.255 | 108.3 | 0.609 | 2.184 | 310.7 | 509.8 | 0.855 | --- | -3.31 | 0.481 | 122.8 | 96.5 | -4.7 | 0.284 |
| 4-1670 | 4-2030 | 0.484 | 249.9 | 12.0 | 13.11 | 1.247 | 107.8 | 0.591 | 2.098 | 311.1 | 514.0 | 0.859 | --- | -2.78 | 0.458 | 118.9 | 95.3 | -4.4 | 0.255 |
| 4-1670 | 4-2050 | 0.472 | 249.6 | 11.7 | 12.70 | 1.242 | 107.5 | 0.577 | 2.037 | 311.2 | 518.0 | 0.861 | --- | -2.40 | 0.440 | 115.0 | 93.5 | -4.1 | 0.231 |
| 4-1670 | 4-2070 | 0.464 | 249.5 | 11.4 | 12.38 | 1.237 | 107.3 | 0.568 | 1.994 | 311.2 | 521.8 | 0.862 | --- | -2.13 | 0.425 | 111.1 | 91.2 | -4.0 | 0.212 |
| 4-1670 | 4-2090 | 0.458 | 249.5 | 11.0 | 12.13 | 1.234 | 107.2 | 0.561 | 1.963 | 310.9 | 525.3 | 0.862 | --- | -1.92 | 0.413 | 107.3 | 88.4 | -3.8 | 0.197 |
| 4-1670 | 4-2110 | 0.456 | 249.6 | 10.5 | 11.93 | 1.232 | 107.3 | 0.557 | 1.941 | 310.5 | 528.7 | 0.861 | --- | -1.75 | 0.404 | 103.5 | 85.3 | -3.7 | 0.186 |
| 4-1670 | 4-2130 | 0.455 | 249.8 | 9.9 | 11.76 | 1.230 | 107.4 | 0.554 | 1.926 | 309.9 | 531.8 | 0.858 | --- | -1.62 | 0.397 | 99.9 | 82.0 | -3.6 | 0.178 |
| 4-1670 | 4-2150 | 0.456 | 250.2 | 9.2 | 11.61 | 1.229 | 107.7 | 0.554 | 1.916 | 309.2 | 534.8 | 0.855 | --- | -1.51 | 0.391 | 96.4 | 78.7 | -3.4 | 0.174 |
| 4-1670 | 4-2170 | 0.459 | 250.6 | 8.5 | 11.48 | 1.229 | 108.0 | 0.555 | 1.910 | 308.2 | 537.6 | 0.850 | --- | -1.43 | 0.388 | 93.0 | 75.7 | -3.2 | 0.172 |
| 4-1670 | 4-2190 | 0.464 | 251.1 | 7.6 | 11.37 | 1.228 | 108.4 | 0.557 | 1.908 | 307.1 | 540.2 | 0.844 | 2.971 | -1.35 | 0.386 | 89.7 | 73.0 | -3.0 | 0.173 |
| 4-1670 | 4-2210 | 0.470 | 251.7 | 6.7 | 11.26 | 1.228 | 108.9 | 0.561 | 1.908 | 305.9 | 542.7 | 0.838 | 2.978 | -1.29 | 0.385 | 86.6 | 70.8 | -2.8 | 0.176 |
| 4-1670 | 4-2230 | 0.478 | 252.3 | 5.8 | 11.17 | 1.229 | 109.4 | 0.566 | 1.910 | 304.5 | 545.0 | 0.830 | 2.991 | -1.24 | 0.385 | 83.6 | 69.2 | -2.6 | 0.181 |
| 4-1670 | 4-2250 | 0.487 | 253.1 | 4.8 | 11.08 | 1.229 | 110.1 | 0.571 | 1.915 | 303.0 | 547.1 | 0.821 | 3.008 | -1.20 | 0.387 | 80.7 | 68.1 | -2.5 | 0.187 |
| 4-1670 | 4-2270 | 0.497 | 253.9 | 3.7 | 10.99 | 1.230 | 110.8 | 0.578 | 1.920 | 301.3 | 549.2 | 0.811 | 3.029 | -1.17 | 0.388 | 77.9 | 67.5 | -2.3 | 0.195 |
| 4-1670 | 4-2290 | 0.509 | 254.7 | 2.6 | 10.91 | 1.230 | 111.6 | 0.585 | 1.927 | 299.5 | 551.0 | 0.800 | 3.054 | -1.14 | 0.391 | 75.3 | 67.5 | -2.1 | 0.203 |
| 4-1670 | 4-2310 | 0.522 | 255.6 | 1.5 | 10.84 | 1.231 | 112.4 | 0.593 | 1.935 | 297.6 | 552.8 | 0.787 | 3.082 | -1.12 | 0.394 | 72.7 | 67.9 | -2.0 | 0.212 |
| 4-1670 | 4-2330 | 0.536 | 256.6 | 0.4 | 10.76 | 1.232 | 113.3 | 0.602 | 1.943 | 295.5 | 554.4 | 0.773 | 3.113 | -1.10 | 0.398 | 70.2 | 68.7 | -1.9 | 0.222 |
| 4-1670 | 4-2350 | 0.552 | 257.7 | -0.7 | 10.69 | 1.233 | 114.3 | 0.612 | 1.953 | 293.3 | 555.9 | 0.758 | 3.147 | -1.09 | 0.402 | 67.8 | 69.9 | -1.7 | 0.233 |
| 4-1670 | 4-2370 | 0.569 | 258.8 | -1.8 | 10.62 | 1.234 | 115.4 | 0.622 | 1.963 | 291.0 | 557.3 | 0.742 | 3.184 | -1.09 | 0.407 | 65.5 | 71.4 | -1.6 | 0.244 |
| 4-1670 | 4-2390 | 0.588 | 259.9 | -3.0 | 10.55 | 1.235 | 116.6 | 0.633 | 1.973 | 288.5 | 558.6 | 0.724 | 3.223 | -1.08 | 0.412 | 63.2 | 73.2 | -1.6 | 0.256 |
| 4-1670 | 4-2410 | 0.609 | 261.2 | -4.1 | 10.48 | 1.236 | 117.8 | 0.645 | 1.984 | 285.9 | 559.7 | 0.704 | 3.265 | -1.09 | 0.417 | 61.0 | 75.2 | -1.5 | 0.268 |
| 4-1670 | 4-2430 | 0.631 | 262.4 | -5.2 | 10.41 | 1.238 | 119.1 | 0.658 | 1.996 | 283.2 | 560.8 | 0.682 | 3.309 | -1.09 | 0.423 | 58.8 | 77.5 | -1.4 | 0.281 |
| 4-1670 | 4-2450 | 0.655 | 263.8 | -6.3 | 10.33 | 1.239 | 120.6 | 0.672 | 2.008 | 280.3 | 561.6 | 0.659 | 3.357 | -1.10 | 0.429 | 56.6 | 80.1 | -1.3 | 0.295 |
| 4-1670 | 4-2470 | 0.681 | 265.2 | -7.4 | 10.26 | 1.240 | 122.1 | 0.686 | 2.020 | 277.2 | 562.4 | 0.634 | 3.406 | -1.12 | 0.435 | 54.4 | 82.8 | -1.3 | 0.310 |
| 4-1670 | 4-2490 | 0.709 | 266.6 | -8.5 | 10.18 | 1.241 | 123.7 | 0.702 | 2.033 | 274.0 | 563.0 | 0.606 | 3.459 | -1.15 | 0.441 | 52.2 | 85.7 | -1.2 | 0.325 |
| 4-1670 | 4-2510 | 0.739 | 268.2 | -9.5 | 10.09 | 1.243 | 125.5 | 0.718 | 2.045 | 270.6 | 563.5 | 0.577 | 3.514 | -1.18 | 0.447 | 50.0 | 88.8 | -1.2 | 0.342 |
| 4-1670 | 4-2530 | 0.771 | 269.8 | -10.6 | 10.01 | 1.244 | 127.4 | 0.735 | 2.059 | 267.0 | 563.8 | 0.545 | 3.572 | -1.21 | 0.454 | 47.8 | 92.1 | -1.1 | 0.359 |
| 4-1670 | 4-2550 | 0.806 | 271.5 | -11.6 | 9.91 | 1.245 | 129.4 | 0.753 | 2.072 | 263.2 | 563.9 | 0.511 | 3.633 | -1.26 | 0.461 | 45.5 | 95.6 | -1.1 | 0.378 |
| 4-1670 | 4-2570 | 0.844 | 273.3 | -12.6 | 9.80 | 1.246 | 131.6 | 0.772 | 2.086 | 259.2 | 563.9 | 0.475 | 3.697 | -1.32 | 0.468 | 43.2 | 99.3 | -1.1 | 0.398 |
| 4-1670 | 4-2590 | 0.884 | 275.3 | -13.5 | 9.68 | 1.248 | 133.9 | 0.792 | 2.100 | 254.9 | 563.6 | 0.436 | 3.765 | -1.39 | 0.475 | 40.8 | 103.1 | -1.0 | 0.419 |
| 4-1670 | 4-2610 | 0.928 | 277.3 | -14.4 | 9.55 | 1.249 | 136.5 | 0.813 | 2.115 | 250.5 | 563.2 | 0.395 | 3.835 | -1.47 | 0.482 | 38.3 | 107.1 | -1.0 | 0.442 |
| 4-1670 | 4-2630 | 0.975 | 279.4 | -15.3 | 9.40 | 1.250 | 139.2 | 0.835 | 2.130 | 245.7 | 562.5 | 0.352 | 3.908 | -1.58 | 0.489 | 35.6 | 111.3 | -1.0 | 0.466 |
| 4-1670 | 4-2650 | 1.025 | 281.7 | -16.1 | 9.22 | 1.252 | 142.2 | 0.857 | 2.145 | 240.6 | 561.6 | 0.307 | 3.983 | -1.72 | 0.496 | 32.8 | 115.7 | -0.9 | 0.493 |
| 4-1670 | 4-2670 | 1.079 | 284.1 | -16.9 | 9.00 | 1.253 | 145.4 | 0.879 | 2.161 | 235.2 | 560.4 | 0.261 | 4.060 | -1.89 | 0.504 | 29.9 | 120.3 | -0.9 | 0.521 |
| 4-1680 | 4-1900 | 0.586 | 247.7 | -27.2 | -2.41 | 1.381 | 112.3 | 0.895 | 7.951 | 312.7 | 479.5 | 0.834 | --- | 12.94 | 0.762 | 144.3 | 96.2 | 9.5 | 0.605 |
| 4-1680 | 4-1920 | 0.551 | 245.4 | -40.6 | -8.09 | 1.345 | 110.4 | 0.808 | 4.421 | 314.0 | 484.7 | 0.849 | --- | 18.51 | 0.691 | 140.9 | 96.2 | 14.8 | 0.541 |
| 4-1680 | 4-1940 | 0.637 | 247.1 | -67.9 | -21.35 | 1.317 | 108.8 | 0.741 | 3.331 | 315.4 | 489.8 | 0.863 | --- | 31.67 | 0.632 | 137.3 | 92.3 | 25.3 | 0.527 |
| 4-1680 | 4-1980 | 1.078 | 294.4 | 44.4 | 52.66 | 1.279 | 107.3 | 0.653 | 2.517 | 315.6 | 499.9 | 0.872 | --- | -42.54 | 0.544 | 130.1 | 86.6 | -34.3 | 0.500 |
| 4-1680 | 4-2000 | 0.742 | 273.2 | 38.1 | 32.45 | 1.267 | 106.3 | 0.622 | 2.331 | 316.8 | 504.5 | 0.881 | --- | -22.43 | 0.511 | 126.2 | 95.5 | -25.6 | 0.365 |
| 4-1680 | 4-2020 | 0.617 | 265.5 | 32.5 | 24.91 | 1.257 | 105.6 | 0.598 | 2.207 | 317.6 | 509.0 | 0.887 | --- | -14.99 | 0.484 | 122.3 | 97.3 | -20.3 | 0.305 |
| 4-1680 | 4-2040 | 0.553 | 261.7 | 28.6 | 21.09 | 1.250 | 105.1 | 0.580 | 2.120 | 318.1 | 513.2 | 0.891 | --- | -11.27 | 0.462 | 118.4 | 97.0 | -17.3 | 0.267 |
| 4-1680 | 4-2060 | 0.515 | 259.5 | 25.9 | 18.78 | 1.244 | 104.8 | 0.566 | 2.059 | 318.4 | 517.3 | 0.894 | --- | -9.06 | 0.444 | 114.6 | 95.8 | -15.5 | 0.238 |
| 4-1680 | 4-2080 | 0.490 | 258.2 | 23.7 | 17.23 | 1.240 | 104.6 | 0.556 | 2.015 | 318.4 | 521.1 | 0.895 | --- | -7.61 | 0.430 | 110.8 | 93.8 | -14.2 | 0.216 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1680 | 4-2100 | 0.473 | 257.3 | 21.9 | 16.10 | 1.237 | 104.5 | 0.549 | 1.984 | 318.3 | 524.7 | 0.895 | --- | -6.58 | 0.418 | 107.1 | 91.3 | -13.3 | 0.199 |
| 4-1680 | 4-2120 | 0.461 | 256.8 | 20.3 | 15.25 | 1.235 | 104.5 | 0.544 | 1.961 | 318.0 | 528.1 | 0.894 | --- | -5.83 | 0.409 | 103.5 | 88.4 | -12.5 | 0.187 |
| 4-1680 | 4-2140 | 0.453 | 256.5 | 18.8 | 14.56 | 1.233 | 104.7 | 0.541 | 1.946 | 317.4 | 531.3 | 0.892 | --- | -5.25 | 0.402 | 100.0 | 85.3 | -11.8 | 0.178 |
| 4-1680 | 4-2160 | 0.449 | 256.5 | 17.3 | 14.01 | 1.232 | 104.9 | 0.540 | 1.936 | 316.7 | 534.3 | 0.890 | --- | -4.80 | 0.397 | 96.6 | 82.1 | -11.1 | 0.172 |
| 4-1680 | 4-2180 | 0.447 | 256.6 | 15.8 | 13.54 | 1.231 | 105.2 | 0.541 | 1.930 | 315.9 | 537.1 | 0.886 | --- | -4.43 | 0.394 | 93.4 | 79.0 | -10.3 | 0.169 |
| 4-1680 | 4-2200 | 0.447 | 256.8 | 14.4 | 13.13 | 1.231 | 105.6 | 0.543 | 1.927 | 314.8 | 539.8 | 0.881 | --- | -4.14 | 0.392 | 90.2 | 76.4 | -9.6 | 0.169 |
| 4-1680 | 4-2220 | 0.449 | 257.3 | 12.9 | 12.78 | 1.231 | 106.0 | 0.545 | 1.927 | 313.7 | 542.3 | 0.876 | 2.978 | -3.89 | 0.391 | 87.2 | 74.1 | -8.9 | 0.171 |
| 4-1680 | 4-2240 | 0.452 | 257.8 | 11.4 | 12.46 | 1.231 | 106.5 | 0.549 | 1.929 | 312.3 | 544.7 | 0.870 | 2.989 | -3.69 | 0.392 | 84.4 | 72.4 | -8.3 | 0.175 |
| 4-1680 | 4-2260 | 0.458 | 258.4 | 9.9 | 12.17 | 1.232 | 107.1 | 0.554 | 1.933 | 310.9 | 546.9 | 0.862 | 3.004 | -3.53 | 0.393 | 81.6 | 71.2 | -7.6 | 0.180 |
| 4-1680 | 4-2280 | 0.464 | 259.1 | 8.5 | 11.91 | 1.232 | 107.7 | 0.560 | 1.938 | 309.3 | 549.0 | 0.854 | 3.023 | -3.39 | 0.395 | 79.0 | 70.5 | -7.0 | 0.187 |
| 4-1680 | 4-2300 | 0.473 | 260.0 | 7.0 | 11.67 | 1.233 | 108.5 | 0.566 | 1.945 | 307.5 | 550.9 | 0.844 | 3.046 | -3.27 | 0.398 | 76.5 | 70.3 | -6.5 | 0.194 |
| 4-1680 | 4-2320 | 0.482 | 260.8 | 5.5 | 11.44 | 1.234 | 109.2 | 0.573 | 1.953 | 305.7 | 552.7 | 0.834 | 3.071 | -3.17 | 0.401 | 74.0 | 70.6 | -6.1 | 0.202 |
| 4-1680 | 4-2340 | 0.494 | 261.8 | 4.0 | 11.22 | 1.234 | 110.1 | 0.581 | 1.961 | 303.7 | 554.5 | 0.822 | 3.100 | -3.10 | 0.404 | 71.7 | 71.3 | -5.6 | 0.211 |
| 4-1680 | 4-2360 | 0.506 | 262.9 | 2.6 | 11.01 | 1.235 | 111.0 | 0.589 | 1.970 | 301.6 | 556.1 | 0.810 | 3.131 | -3.03 | 0.409 | 69.4 | 72.4 | -5.3 | 0.220 |
| 4-1680 | 4-2380 | 0.520 | 264.0 | 1.1 | 10.81 | 1.236 | 112.0 | 0.598 | 1.980 | 299.3 | 557.5 | 0.796 | 3.164 | -2.99 | 0.413 | 67.2 | 73.8 | -4.9 | 0.230 |
| 4-1680 | 4-2400 | 0.536 | 265.1 | -0.3 | 10.62 | 1.238 | 113.0 | 0.608 | 1.990 | 297.0 | 558.9 | 0.780 | 3.200 | -2.95 | 0.418 | 65.1 | 75.4 | -4.6 | 0.241 |
| 4-1680 | 4-2420 | 0.553 | 266.4 | -1.7 | 10.42 | 1.239 | 114.1 | 0.619 | 2.001 | 294.5 | 560.2 | 0.763 | 3.239 | -2.93 | 0.423 | 63.0 | 77.4 | -4.4 | 0.252 |
| 4-1680 | 4-2440 | 0.572 | 267.7 | -3.1 | 10.23 | 1.240 | 115.3 | 0.630 | 2.012 | 291.9 | 561.3 | 0.745 | 3.280 | -2.92 | 0.429 | 61.0 | 79.6 | -4.1 | 0.264 |
| 4-1680 | 4-2460 | 0.592 | 269.0 | -4.4 | 10.03 | 1.241 | 116.6 | 0.642 | 2.024 | 289.1 | 562.4 | 0.725 | 3.323 | -2.93 | 0.435 | 59.0 | 82.0 | -3.9 | 0.277 |
| 4-1680 | 4-2480 | 0.614 | 270.5 | -5.7 | 9.84 | 1.242 | 118.0 | 0.655 | 2.036 | 286.2 | 563.3 | 0.703 | 3.369 | -2.94 | 0.440 | 57.0 | 84.6 | -3.8 | 0.290 |
| 4-1680 | 4-2500 | 0.639 | 272.0 | -6.9 | 9.64 | 1.243 | 119.5 | 0.669 | 2.048 | 283.1 | 564.1 | 0.679 | 3.417 | -2.98 | 0.447 | 55.0 | 87.4 | -3.6 | 0.304 |
| 4-1680 | 4-2520 | 0.665 | 273.5 | -8.2 | 9.43 | 1.244 | 121.1 | 0.683 | 2.060 | 279.9 | 564.7 | 0.653 | 3.468 | -3.02 | 0.453 | 53.0 | 90.4 | -3.4 | 0.319 |
| 4-1680 | 4-2540 | 0.693 | 275.2 | -9.3 | 9.21 | 1.246 | 122.8 | 0.699 | 2.073 | 276.5 | 565.2 | 0.625 | 3.522 | -3.09 | 0.459 | 51.0 | 93.6 | -3.3 | 0.335 |
| 4-1680 | 4-2560 | 0.724 | 276.9 | -10.5 | 8.98 | 1.247 | 124.6 | 0.715 | 2.086 | 272.9 | 565.6 | 0.594 | 3.578 | -3.17 | 0.466 | 49.0 | 96.9 | -3.2 | 0.351 |
| 4-1680 | 4-2580 | 0.757 | 278.7 | -11.6 | 8.73 | 1.248 | 126.5 | 0.733 | 2.100 | 269.2 | 565.8 | 0.561 | 3.638 | -3.27 | 0.473 | 46.9 | 100.4 | -3.1 | 0.369 |
| 4-1680 | 4-2600 | 0.793 | 280.6 | -12.6 | 8.47 | 1.249 | 128.6 | 0.751 | 2.113 | 265.2 | 565.8 | 0.526 | 3.700 | -3.40 | 0.480 | 44.7 | 104.1 | -3.0 | 0.388 |
| 4-1680 | 4-2620 | 0.832 | 282.6 | -13.6 | 8.17 | 1.251 | 130.9 | 0.771 | 2.127 | 260.9 | 565.7 | 0.488 | 3.766 | -3.56 | 0.487 | 42.5 | 108.0 | -2.9 | 0.409 |
| 4-1680 | 4-2640 | 0.874 | 284.7 | -14.5 | 7.85 | 1.252 | 133.3 | 0.791 | 2.141 | 256.5 | 565.3 | 0.448 | 3.835 | -3.75 | 0.494 | 40.1 | 112.0 | -2.8 | 0.431 |
| 4-1680 | 4-2660 | 0.919 | 286.9 | -15.4 | 7.48 | 1.253 | 136.0 | 0.812 | 2.156 | 251.7 | 564.7 | 0.404 | 3.907 | -3.99 | 0.501 | 37.7 | 116.2 | -2.7 | 0.455 |
| 4-1680 | 4-2680 | 0.969 | 289.3 | -16.2 | 7.05 | 1.254 | 138.8 | 0.835 | 2.171 | 246.7 | 563.8 | 0.359 | 3.983 | -4.30 | 0.508 | 35.1 | 120.6 | -2.6 | 0.480 |
| 4-1690 | 4-1890 | 0.601 | 253.7 | -23.5 | -0.40 | 1.427 | 110.9 | 1.00308 | 6.136 | 318.3 | 472.9 | 0.859 | --- | 10.97 | 0.844 | 146.6 | 97.8 | 7.5 | 0.680 |
| 4-1690 | 4-1910 | 0.535 | 252.2 | -28.7 | -2.54 | 1.379 | 108.9 | 0.885 | 7.618 | 319.6 | 478.3 | 0.873 | --- | 12.93 | 0.758 | 143.3 | 98.9 | 9.8 | 0.592 |
| 4-1690 | 4-1930 | 0.492 | 250.2 | -37.0 | -5.55 | 1.343 | 107.2 | 0.797 | 4.366 | 321.1 | 483.6 | 0.886 | --- | 15.78 | 0.687 | 139.9 | 99.4 | 13.3 | 0.524 |
| 4-1690 | 4-1950 | 0.481 | 247.9 | -50.0 | -10.18 | 1.316 | 105.7 | 0.730 | 3.321 | 322.5 | 488.9 | 0.898 | --- | 20.24 | 0.630 | 136.3 | 98.9 | 18.5 | 0.475 |
| 4-1690 | 4-1970 | 0.537 | 247.3 | -69.1 | -18.11 | 1.296 | 104.4 | 0.678 | 2.816 | 324.0 | 494.0 | 0.907 | --- | 28.00 | 0.583 | 132.7 | 96.2 | 26.2 | 0.456 |
| 4-1690 | 4-1990 | 0.755 | 11.5 | -84.6 | -33.94 | 1.280 | 103.2 | 0.637 | 2.527 | 325.7 | 499.0 | 0.917 | --- | 43.67 | 0.544 | 128.8 | 88.0 | 35.8 | 0.501 |
| 4-1690 | 4-2030 | 1.300 | 317.9 | 49.8 | 68.06 | 1.258 | 103.6 | 0.590 | 2.221 | 323.0 | 508.5 | 0.910 | --- | -58.65 | 0.486 | 121.8 | 79.3 | -40.0 | 0.548 |
| 4-1690 | 4-2050 | 0.908 | 291.8 | 49.8 | 44.30 | 1.251 | 102.7 | 0.570 | 2.136 | 324.6 | 512.8 | 0.917 | --- | -35.04 | 0.465 | 117.9 | 89.9 | -38.3 | 0.380 |
| 4-1690 | 4-2070 | 0.718 | 278.7 | 45.4 | 33.25 | 1.246 | 102.2 | 0.556 | 2.075 | 325.4 | 516.8 | 0.921 | --- | -24.14 | 0.447 | 114.1 | 93.5 | -33.9 | 0.299 |
| 4-1690 | 4-2090 | 0.617 | 271.9 | 41.0 | 27.26 | 1.242 | 102.0 | 0.546 | 2.031 | 325.7 | 520.7 | 0.923 | --- | -18.32 | 0.433 | 110.4 | 93.7 | -30.2 | 0.253 |
| 4-1690 | 4-2110 | 0.556 | 268.0 | 37.2 | 23.56 | 1.239 | 101.9 | 0.538 | 2.000 | 325.7 | 524.4 | 0.924 | --- | -14.77 | 0.422 | 106.8 | 92.4 | -27.4 | 0.224 |
| 4-1690 | 4-2130 | 0.516 | 265.6 | 33.9 | 21.04 | 1.236 | 101.9 | 0.533 | 1.978 | 325.5 | 527.8 | 0.923 | --- | -12.41 | 0.413 | 103.3 | 90.2 | -25.1 | 0.204 |
| 4-1690 | 4-2150 | 0.489 | 264.0 | 31.1 | 19.20 | 1.235 | 102.0 | 0.530 | 1.963 | 325.1 | 531.0 | 0.922 | --- | -10.73 | 0.407 | 99.9 | 87.5 | -23.2 | 0.190 |
| 4-1690 | 4-2170 | 0.470 | 263.1 | 28.4 | 17.80 | 1.234 | 102.1 | 0.529 | 1.953 | 324.4 | 534.0 | 0.920 | --- | -9.49 | 0.402 | 96.6 | 84.7 | -21.4 | 0.181 |
| 4-1690 | 4-2190 | 0.457 | 262.6 | 25.9 | 16.69 | 1.233 | 102.4 | 0.529 | 1.947 | 323.6 | 536.9 | 0.917 | --- | -8.54 | 0.399 | 93.5 | 81.8 | -19.8 | 0.175 |
| 4-1690 | 4-2210 | 0.449 | 262.4 | 23.6 | 15.78 | 1.233 | 102.7 | 0.530 | 1.944 | 322.7 | 539.6 | 0.914 | --- | -7.79 | 0.398 | 90.5 | 79.2 | -18.2 | 0.173 |
| 4-1690 | 4-2230 | 0.443 | 262.4 | 21.3 | 15.01 | 1.233 | 103.2 | 0.532 | 1.944 | 321.5 | 542.1 | 0.909 | 2.979 | -7.19 | 0.397 | 87.6 | 77.0 | -16.7 | 0.173 |
| 4-1690 | 4-2250 | 0.441 | 262.7 | 19.2 | 14.34 | 1.233 | 103.6 | 0.535 | 1.946 | 320.3 | 544.5 | 0.904 | 2.988 | -6.70 | 0.397 | 84.8 | 75.3 | -15.4 | 0.175 |
| 4-1690 | 4-2270 | 0.440 | 263.2 | 17.0 | 13.77 | 1.233 | 104.2 | 0.539 | 1.950 | 318.8 | 546.8 | 0.898 | 3.002 | -6.30 | 0.399 | 82.2 | 74.1 | -14.1 | 0.178 |
| 4-1690 | 4-2290 | 0.442 | 263.8 | 14.9 | 13.25 | 1.234 | 104.8 | 0.544 | 1.955 | 317.3 | 548.9 | 0.891 | 3.019 | -5.97 | 0.401 | 79.7 | 73.3 | -12.9 | 0.183 |
| 4-1690 | 4-2310 | 0.446 | 264.5 | 12.9 | 12.78 | 1.235 | 105.4 | 0.549 | 1.962 | 315.6 | 550.9 | 0.884 | 3.040 | -5.69 | 0.403 | 77.3 | 73.1 | -11.9 | 0.189 |
| 4-1690 | 4-2330 | 0.451 | 265.4 | 10.9 | 12.35 | 1.235 | 106.1 | 0.555 | 1.969 | 313.8 | 552.8 | 0.875 | 3.063 | -5.46 | 0.407 | 75.0 | 73.3 | -11.0 | 0.196 |
| 4-1690 | 4-2350 | 0.458 | 266.3 | 8.9 | 11.96 | 1.236 | 106.9 | 0.562 | 1.978 | 311.9 | 554.5 | 0.866 | 3.089 | -5.26 | 0.410 | 72.8 | 73.9 | -10.2 | 0.204 |
| 4-1690 | 4-2370 | 0.467 | 267.4 | 7.0 | 11.58 | 1.237 | 107.8 | 0.570 | 1.987 | 309.9 | 556.2 | 0.855 | 3.118 | -5.10 | 0.414 | 70.7 | 74.8 | -9.4 | 0.212 |
| 4-1690 | 4-2390 | 0.478 | 268.5 | 5.1 | 11.23 | 1.238 | 108.7 | 0.577 | 1.996 | 307.7 | 557.8 | 0.844 | 3.149 | -4.97 | 0.419 | 68.6 | 76.1 | -8.8 | 0.221 |
| 4-1690 | 4-2410 | 0.490 | 269.8 | 3.3 | 10.89 | 1.239 | 109.6 | 0.586 | 2.006 | 305.4 | 559.2 | 0.831 | 3.182 | -4.87 | 0.424 | 66.6 | 77.7 | -8.2 | 0.230 |
| 4-1690 | 4-2430 | 0.503 | 271.0 | 1.6 | 10.57 | 1.240 | 110.7 | 0.595 | 2.017 | 303.0 | 560.6 | 0.816 | 3.218 | -4.79 | 0.429 | 64.7 | 79.6 | -7.7 | 0.241 |
| 4-1690 | 4-2450 | 0.518 | 272.4 | -0.1 | 10.25 | 1.241 | 111.7 | 0.605 | 2.028 | 300.5 | 561.8 | 0.801 | 3.255 | -4.73 | 0.434 | 62.8 | 81.7 | -7.3 | 0.251 |
| 4-1690 | 4-2470 | 0.535 | 273.8 | -1.8 | 9.93 | 1.242 | 112.9 | 0.616 | 2.039 | 297.8 | 563.0 | 0.784 | 3.295 | -4.69 | 0.440 | 61.0 | 84.0 | -6.9 | 0.262 |
| 4-1690 | 4-2490 | 0.554 | 275.3 | -3.3 | 9.62 | 1.244 | 114.2 | 0.627 | 2.051 | 295.1 | 564.0 | 0.765 | 3.337 | -4.67 | 0.446 | 59.1 | 86.5 | -6.5 | 0.274 |
| 4-1690 | 4-2510 | 0.575 | 276.9 | -4.8 | 9.30 | 1.245 | 115.5 | 0.639 | 2.063 | 292.1 | 564.9 | 0.744 | 3.382 | -4.68 | 0.452 | 57.3 | 89.2 | -6.2 | 0.287 |
| 4-1690 | 4-2530 | 0.597 | 278.5 | -6.3 | 8.98 | 1.246 | 116.9 | 0.652 | 2.075 | 289.1 | 565.8 | 0.722 | 3.429 | -4.71 | 0.458 | 55.5 | 92.1 | -5.9 | 0.300 |
| 4-1690 | 4-2550 | 0.622 | 280.2 | -7.7 | 8.66 | 1.247 | 118.5 | 0.666 | 2.088 | 285.8 | 566.4 | 0.698 | 3.478 | -4.75 | 0.465 | 53.7 | 95.2 | -5.7 | 0.314 |
| 4-1690 | 4-2570 | 0.649 | 282.0 | -9.0 | 8.32 | 1.248 | 120.1 | 0.681 | 2.100 | 282.4 | 567.0 | 0.671 | 3.530 | -4.83 | 0.471 | 51.9 | 98.4 | -5.4 | 0.329 |
| 4-1690 | 4-2590 | 0.678 | 283.9 | -10.2 | 7.96 | 1.249 | 121.9 | 0.696 | 2.113 | 278.9 | 567.4 | 0.642 | 3.585 | -4.93 | 0.478 | 50.0 | 101.8 | -5.2 | 0.345 |
| 4-1690 | 4-2610 | 0.709 | 285.8 | -11.4 | 7.58 | 1.250 | 123.7 | 0.713 | 2.127 | 275.1 | 567.7 | 0.610 | 3.643 | -5.06 | 0.485 | 48.1 | 105.4 | -5.0 | 0.362 |
| 4-1690 | 4-2630 | 0.744 | 287.8 | -12.5 | 7.18 | 1.252 | 125.8 | 0.731 | 2.140 | 271.1 | 567.8 | 0.576 | 3.704 | -5.23 | 0.491 | 46.1 | 109.1 | -4.9 | 0.381 |
| 4-1690 | 4-2650 | 0.781 | 289.9 | -13.6 | 6.74 | 1.253 | 128.0 | 0.750 | 2.154 | 266.9 | 567.7 | 0.539 | 3.768 | -5.44 | 0.498 | 44.0 | 113.0 | -4.7 | 0.401 |
| 4-1690 | 4-2670 | 0.822 | 292.2 | -14.5 | 6.26 | 1.254 | 130.3 | 0.769 | 2.168 | 262.5 | 567.4 | 0.500 | 3.836 | -5.70 | 0.505 | 41.8 | 117.1 | -4.5 | 0.422 |
| 4-1690 | 4-2690 | 0.866 | 294.5 | -15.4 | 5.72 | 1.255 | 132.9 | 0.790 | 2.182 | 257.8 | 566.9 | 0.457 | 3.907 | -6.03 | 0.512 | 39.5 | 121.3 | -4.4 | 0.445 |
| 4-1700 | 4-1880 | 0.627 | 258.4 | -22.3 | 0.34 | 1.485 | 109.3 | 1.151 | -5.855 | 324.0 | 466.4 | 0.883 | --- | 10.34 | 0.939 | 148.6 | 98.9 | 6.6 | 0.770 |
| 4-1700 | 4-1900 | 0.546 | 257.1 | -25.4 | -0.99 | 1.422 | 107.2 | 0.990 | 85.953 | 325.4 | 471.9 | 0.897 | --- | 11.42 | 0.834 | 145.5 | 100.3 | 8.1 | 0.663 |
| 4-1700 | 4-1920 | 0.484 | 255.3 | -30.0 | -2.62 | 1.375 | 105.3 | 0.871 | 7.068 | 327.0 | 477.4 | 0.910 | --- | 12.81 | 0.750 | 142.3 | 101.3 | 10.2 | 0.577 |
| 4-1700 | 4-1940 | 0.441 | 253.1 | -36.6 | -4.69 | 1.341 | 103.8 | 0.783 | 4.242 | 328.6 | 482.9 | 0.920 | --- | 14.64 | 0.681 | 138.8 | 102.0 | 12.9 | 0.508 |
| 4-1700 | 4-1960 | 0.419 | 250.4 | -45.7 | -7.40 | 1.314 | 102.4 | 0.716 | 3.275 | 330.2 | 488.4 | 0.929 | --- | 17.12 | 0.626 | 135.3 | 102.0 | 16.5 | 0.455 |
| 4-1700 | 4-1980 | 0.423 | 247.3 | -57.8 | -11.14 | 1.294 | 101.2 | 0.665 | 2.798 | 331.7 | 493.6 | 0.937 | --- | 20.65 | 0.580 | 131.7 | 101.2 | 21.5 | 0.417 |
| 4-1700 | 4-2000 | 0.469 | 243.3 | -72.6 | -16.67 | 1.279 | 100.3 | 0.626 | 2.521 | 333.2 | 498.7 | 0.943 | --- | 25.96 | 0.542 | 127.9 | 98.8 | 27.9 | 0.400 |
| 4-1700 | 4-2020 | 0.589 | 230.6 | -89.4 | -25.52 | 1.267 | 99.4 | 0.595 | 2.344 | 334.8 | 503.6 | 0.949 | --- | 34.59 | 0.511 | 124.1 | 93.8 | 35.4 | 0.415 |
| 4-1700 | 4-2040 | 0.842 | 52.5 | -72.4 | -40.98 | 1.258 | 98.5 | 0.571 | 2.226 | 336.6 | 508.3 | 0.954 | --- | 49.84 | 0.486 | 120.3 | 84.6 | 41.1 | 0.487 |
| 4-1700 | 4-2060 | 1.286 | 44.5 | -52.0 | -67.95 | 1.252 | 97.3 | 0.551 | 2.143 | 339.3 | 512.9 | 0.961 | --- | 76.60 | 0.465 | 116.3 | 73.4 | 38.9 | 0.646 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1700 | 4-2080 | 1.445 | 336.4 | 53.3 | 78.41 | 1.246 | 100.6 | 0.550 | 2.084 | 330.0 | 516.7 | 0.937 | --- | -69.97 | 0.448 | 113.8 | 76.6 | -40.5 | 0.594 |
| 4-1700 | 4-2100 | 1.062 | 309.6 | 57.1 | 54.33 | 1.242 | 99.8 | 0.538 | 2.042 | 331.9 | 520.6 | 0.943 | --- | -46.10 | 0.435 | 110.0 | 84.4 | -43.9 | 0.425 |
| 4-1700 | 4-2120 | 0.830 | 291.3 | 54.5 | 40.81 | 1.239 | 99.4 | 0.530 | 2.012 | 332.6 | 524.3 | 0.946 | --- | -32.79 | 0.424 | 106.3 | 88.4 | -42.5 | 0.327 |
| 4-1700 | 4-2140 | 0.694 | 281.1 | 50.4 | 32.93 | 1.237 | 99.3 | 0.524 | 1.990 | 332.8 | 527.7 | 0.946 | --- | -25.11 | 0.416 | 102.9 | 89.1 | -39.7 | 0.269 |
| 4-1700 | 4-2160 | 0.609 | 275.3 | 46.3 | 27.91 | 1.236 | 99.3 | 0.521 | 1.975 | 332.6 | 531.0 | 0.946 | --- | -20.30 | 0.410 | 99.6 | 88.0 | -36.8 | 0.234 |
| 4-1700 | 4-2180 | 0.553 | 271.7 | 42.4 | 24.46 | 1.235 | 99.5 | 0.519 | 1.966 | 332.1 | 534.0 | 0.945 | --- | -17.06 | 0.406 | 96.4 | 86.1 | -33.9 | 0.212 |
| 4-1700 | 4-2200 | 0.514 | 269.5 | 38.7 | 21.93 | 1.234 | 99.7 | 0.519 | 1.960 | 331.4 | 536.9 | 0.943 | --- | -14.74 | 0.403 | 93.4 | 83.8 | -31.2 | 0.198 |
| 4-1700 | 4-2220 | 0.486 | 268.2 | 35.4 | 19.99 | 1.234 | 100.0 | 0.520 | 1.958 | 330.5 | 539.6 | 0.940 | --- | -13.02 | 0.402 | 90.4 | 81.6 | -28.6 | 0.189 |
| 4-1700 | 4-2240 | 0.466 | 267.5 | 32.2 | 18.45 | 1.234 | 100.4 | 0.521 | 1.958 | 329.5 | 542.1 | 0.937 | 2.979 | -11.70 | 0.401 | 87.7 | 79.6 | -26.2 | 0.184 |
| 4-1700 | 4-2260 | 0.452 | 267.3 | 29.1 | 17.19 | 1.234 | 100.8 | 0.524 | 1.961 | 328.3 | 544.5 | 0.933 | 2.988 | -10.65 | 0.402 | 85.0 | 77.9 | -23.9 | 0.183 |
| 4-1700 | 4-2280 | 0.442 | 267.4 | 26.2 | 16.13 | 1.234 | 101.3 | 0.527 | 1.965 | 326.9 | 546.8 | 0.929 | 3.000 | -9.82 | 0.403 | 82.5 | 76.7 | -21.8 | 0.184 |
| 4-1700 | 4-2300 | 0.436 | 267.7 | 23.3 | 15.21 | 1.235 | 101.9 | 0.531 | 1.970 | 325.4 | 548.9 | 0.923 | 3.016 | -9.14 | 0.406 | 80.1 | 76.0 | -19.9 | 0.186 |
| 4-1700 | 4-2320 | 0.432 | 268.3 | 20.6 | 14.42 | 1.236 | 102.5 | 0.536 | 1.977 | 323.8 | 551.0 | 0.917 | 3.036 | -8.57 | 0.408 | 77.9 | 75.7 | -18.3 | 0.190 |
| 4-1700 | 4-2340 | 0.432 | 269.1 | 17.9 | 13.70 | 1.237 | 103.1 | 0.541 | 1.984 | 322.0 | 552.9 | 0.911 | 3.058 | -8.11 | 0.412 | 75.7 | 75.8 | -16.8 | 0.195 |
| 4-1700 | 4-2360 | 0.433 | 270.0 | 15.3 | 13.06 | 1.237 | 103.9 | 0.547 | 1.993 | 320.2 | 554.7 | 0.903 | 3.082 | -7.72 | 0.416 | 73.6 | 76.4 | -15.4 | 0.201 |
| 4-1700 | 4-2380 | 0.437 | 271.1 | 12.8 | 12.47 | 1.238 | 104.6 | 0.553 | 2.002 | 318.2 | 556.4 | 0.895 | 3.109 | -7.39 | 0.420 | 71.6 | 77.3 | -14.3 | 0.208 |
| 4-1700 | 4-2400 | 0.443 | 272.3 | 10.4 | 11.93 | 1.239 | 105.5 | 0.560 | 2.011 | 316.1 | 558.0 | 0.885 | 3.138 | -7.12 | 0.424 | 69.7 | 78.5 | -13.2 | 0.216 |
| 4-1700 | 4-2420 | 0.451 | 273.6 | 8.1 | 11.42 | 1.240 | 106.4 | 0.567 | 2.021 | 313.9 | 559.5 | 0.875 | 3.168 | -6.89 | 0.429 | 67.8 | 80.0 | -12.3 | 0.224 |
| 4-1700 | 4-2440 | 0.460 | 274.9 | 5.9 | 10.93 | 1.241 | 107.3 | 0.575 | 2.032 | 311.5 | 561.0 | 0.863 | 3.201 | -6.71 | 0.434 | 66.0 | 81.8 | -11.5 | 0.233 |
| 4-1700 | 4-2460 | 0.472 | 276.4 | 3.7 | 10.47 | 1.242 | 108.3 | 0.584 | 2.043 | 309.1 | 562.3 | 0.850 | 3.236 | -6.56 | 0.440 | 64.3 | 83.8 | -10.8 | 0.242 |
| 4-1700 | 4-2480 | 0.485 | 277.9 | 1.7 | 10.02 | 1.243 | 109.4 | 0.593 | 2.054 | 306.5 | 563.5 | 0.836 | 3.273 | -6.45 | 0.446 | 62.5 | 86.1 | -10.1 | 0.252 |
| 4-1700 | 4-2500 | 0.500 | 279.6 | -0.3 | 9.58 | 1.245 | 110.5 | 0.603 | 2.066 | 303.9 | 564.7 | 0.820 | 3.312 | -6.36 | 0.451 | 60.9 | 88.5 | -9.6 | 0.263 |
| 4-1700 | 4-2520 | 0.517 | 281.2 | -2.1 | 9.15 | 1.246 | 111.8 | 0.614 | 2.078 | 301.1 | 565.7 | 0.803 | 3.353 | -6.31 | 0.457 | 59.2 | 91.1 | -9.1 | 0.274 |
| 4-1700 | 4-2540 | 0.536 | 283.0 | -3.9 | 8.72 | 1.247 | 113.1 | 0.625 | 2.090 | 298.1 | 566.7 | 0.784 | 3.396 | -6.28 | 0.464 | 57.6 | 94.0 | -8.6 | 0.286 |
| 4-1700 | 4-2560 | 0.557 | 284.8 | -5.5 | 8.29 | 1.248 | 114.5 | 0.637 | 2.102 | 295.0 | 567.5 | 0.763 | 3.441 | -6.29 | 0.470 | 55.9 | 96.9 | -8.2 | 0.298 |
| 4-1700 | 4-2580 | 0.580 | 286.7 | -7.1 | 7.85 | 1.249 | 115.9 | 0.650 | 2.115 | 291.8 | 568.2 | 0.740 | 3.489 | -6.32 | 0.476 | 54.3 | 100.1 | -7.9 | 0.312 |
| 4-1700 | 4-2600 | 0.605 | 288.7 | -8.6 | 7.40 | 1.250 | 117.5 | 0.664 | 2.127 | 288.4 | 568.8 | 0.715 | 3.540 | -6.39 | 0.483 | 52.6 | 103.4 | -7.5 | 0.326 |
| 4-1700 | 4-2620 | 0.633 | 290.7 | -9.9 | 6.93 | 1.251 | 119.2 | 0.679 | 2.140 | 284.8 | 569.3 | 0.687 | 3.593 | -6.49 | 0.489 | 50.9 | 106.8 | -7.2 | 0.341 |
| 4-1700 | 4-2640 | 0.663 | 292.8 | -11.2 | 6.45 | 1.252 | 121.1 | 0.695 | 2.153 | 281.0 | 569.6 | 0.658 | 3.649 | -6.63 | 0.496 | 49.1 | 110.5 | -7.0 | 0.358 |
| 4-1700 | 4-2660 | 0.696 | 295.0 | -12.4 | 5.93 | 1.254 | 123.0 | 0.712 | 2.167 | 277.0 | 569.7 | 0.625 | 3.708 | -6.81 | 0.503 | 47.3 | 114.2 | -6.7 | 0.375 |
| 4-1700 | 4-2680 | 0.733 | 297.3 | -13.4 | 5.37 | 1.255 | 125.1 | 0.730 | 2.180 | 272.8 | 569.7 | 0.589 | 3.771 | -7.04 | 0.510 | 45.4 | 118.2 | -6.5 | 0.394 |
| 4-1700 | 4-2700 | 0.772 | 299.6 | -14.4 | 4.76 | 1.256 | 127.4 | 0.749 | 2.194 | 268.4 | 569.5 | 0.551 | 3.837 | -7.34 | 0.516 | 43.4 | 122.3 | -6.3 | 0.415 |
| 4-1710 | 4-1890 | 0.566 | 260.6 | -23.8 | -0.24 | 1.474 | 105.2 | 1.130 | -7.074 | 331.4 | 465.6 | 0.921 | --- | 10.77 | 0.922 | 147.4 | 101.3 | 7.1 | 0.746 |
| 4-1710 | 4-1910 | 0.491 | 258.7 | -26.9 | -1.39 | 1.414 | 103.3 | 0.970 | 30.885 | 333.0 | 471.3 | 0.932 | --- | 11.60 | 0.820 | 144.4 | 102.6 | 8.6 | 0.643 |
| 4-1710 | 4-1930 | 0.435 | 256.4 | -31.3 | -2.72 | 1.369 | 101.6 | 0.853 | 6.396 | 334.8 | 477.1 | 0.942 | --- | 12.63 | 0.738 | 141.1 | 103.6 | 10.4 | 0.559 |
| 4-1710 | 4-1950 | 0.395 | 253.6 | -37.1 | -4.29 | 1.336 | 100.1 | 0.766 | 4.058 | 336.6 | 482.8 | 0.950 | --- | 13.90 | 0.672 | 137.7 | 104.2 | 12.8 | 0.491 |
| 4-1710 | 4-1970 | 0.371 | 250.2 | -44.5 | -6.19 | 1.311 | 98.9 | 0.701 | 3.196 | 338.4 | 488.3 | 0.956 | --- | 15.52 | 0.618 | 134.2 | 104.4 | 15.7 | 0.437 |
| 4-1710 | 4-1990 | 0.364 | 246.1 | -53.7 | -8.57 | 1.292 | 97.9 | 0.651 | 2.757 | 340.0 | 493.8 | 0.961 | --- | 17.61 | 0.574 | 130.6 | 104.0 | 19.5 | 0.396 |
| 4-1710 | 4-2010 | 0.378 | 240.3 | -64.3 | -11.64 | 1.277 | 97.0 | 0.614 | 2.499 | 341.6 | 499.0 | 0.966 | --- | 20.42 | 0.538 | 126.9 | 102.8 | 24.2 | 0.367 |
| 4-1710 | 4-2030 | 0.420 | 229.4 | -75.7 | -15.79 | 1.266 | 96.3 | 0.585 | 2.333 | 343.0 | 504.0 | 0.969 | --- | 24.30 | 0.508 | 123.1 | 100.4 | 29.8 | 0.353 |
| 4-1710 | 4-2050 | 0.503 | 170.0 | -85.6 | -21.69 | 1.257 | 95.6 | 0.562 | 2.221 | 344.3 | 508.7 | 0.972 | --- | 29.93 | 0.484 | 119.4 | 96.5 | 35.9 | 0.358 |
| 4-1710 | 4-2070 | 0.647 | 79.1 | -77.8 | -30.59 | 1.251 | 95.1 | 0.545 | 2.142 | 345.6 | 513.2 | 0.974 | --- | 38.57 | 0.464 | 115.6 | 90.6 | 41.5 | 0.394 |
| 4-1710 | 4-2090 | 0.890 | 64.1 | -64.4 | -44.72 | 1.246 | 94.4 | 0.532 | 2.086 | 347.2 | 517.5 | 0.976 | --- | 52.45 | 0.448 | 111.8 | 83.0 | 44.0 | 0.475 |
| 4-1710 | 4-2110 | 1.257 | 55.5 | -48.7 | -66.73 | 1.242 | 93.6 | 0.521 | 2.046 | 349.6 | 521.6 | 0.979 | --- | 74.20 | 0.435 | 108.0 | 76.2 | 40.6 | 0.611 |
| 4-1710 | 4-2130 | 1.545 | 353.0 | 56.5 | 85.82 | 1.239 | 98.1 | 0.526 | 2.018 | 336.4 | 524.3 | 0.956 | --- | -78.60 | 0.425 | 106.1 | 77.5 | -39.2 | 0.633 |
| 4-1710 | 4-2150 | 1.191 | 326.6 | 62.5 | 62.63 | 1.237 | 97.3 | 0.519 | 1.998 | 338.5 | 527.8 | 0.961 | --- | -55.65 | 0.418 | 102.5 | 82.3 | -44.9 | 0.477 |
| 4-1710 | 4-2170 | 0.936 | 303.3 | 61.7 | 47.48 | 1.236 | 97.0 | 0.515 | 1.984 | 339.3 | 531.1 | 0.963 | --- | -40.76 | 0.412 | 99.2 | 85.1 | -46.1 | 0.369 |
| 4-1710 | 4-2190 | 0.772 | 289.1 | 58.0 | 37.98 | 1.235 | 97.0 | 0.512 | 1.975 | 339.4 | 534.2 | 0.963 | --- | -31.51 | 0.408 | 96.0 | 85.8 | -44.7 | 0.302 |
| 4-1710 | 4-2210 | 0.664 | 281.0 | 53.6 | 31.75 | 1.234 | 97.1 | 0.511 | 1.971 | 339.0 | 537.1 | 0.963 | --- | -25.53 | 0.406 | 93.1 | 85.0 | -42.3 | 0.260 |
| 4-1710 | 4-2230 | 0.591 | 276.3 | 49.2 | 27.40 | 1.234 | 97.3 | 0.512 | 1.969 | 338.3 | 539.8 | 0.961 | --- | -21.44 | 0.405 | 90.2 | 83.5 | -39.4 | 0.233 |
| 4-1710 | 4-2250 | 0.539 | 273.6 | 45.1 | 24.20 | 1.234 | 97.6 | 0.513 | 1.970 | 337.4 | 542.3 | 0.959 | 2.980 | -18.50 | 0.405 | 87.6 | 81.9 | -36.3 | 0.217 |
| 4-1710 | 4-2270 | 0.502 | 272.0 | 41.1 | 21.75 | 1.234 | 98.0 | 0.515 | 1.972 | 336.3 | 544.7 | 0.957 | 2.988 | -16.30 | 0.406 | 85.0 | 80.5 | -33.4 | 0.206 |
| 4-1710 | 4-2290 | 0.474 | 271.2 | 37.3 | 19.80 | 1.235 | 98.5 | 0.518 | 1.977 | 335.0 | 547.0 | 0.953 | 3.000 | -14.62 | 0.408 | 82.6 | 79.3 | -30.5 | 0.201 |
| 4-1710 | 4-2310 | 0.454 | 271.0 | 33.6 | 18.20 | 1.236 | 99.0 | 0.521 | 1.983 | 333.5 | 549.1 | 0.949 | 3.016 | -13.29 | 0.410 | 80.3 | 78.6 | -27.9 | 0.199 |
| 4-1710 | 4-2330 | 0.439 | 271.3 | 30.1 | 16.85 | 1.236 | 99.6 | 0.525 | 1.989 | 332.0 | 551.2 | 0.945 | 3.034 | -12.22 | 0.413 | 78.1 | 78.3 | -25.5 | 0.199 |
| 4-1710 | 4-2350 | 0.429 | 271.8 | 26.7 | 15.70 | 1.237 | 100.2 | 0.529 | 1.997 | 330.3 | 553.1 | 0.940 | 3.054 | -11.35 | 0.416 | 76.1 | 78.4 | -23.3 | 0.201 |
| 4-1710 | 4-2370 | 0.423 | 272.7 | 23.4 | 14.69 | 1.238 | 100.9 | 0.534 | 2.006 | 328.5 | 555.0 | 0.934 | 3.078 | -10.63 | 0.420 | 74.1 | 78.9 | -21.4 | 0.205 |
| 4-1710 | 4-2390 | 0.420 | 273.7 | 20.2 | 13.79 | 1.239 | 101.6 | 0.540 | 2.015 | 326.5 | 556.7 | 0.928 | 3.103 | -10.03 | 0.425 | 72.2 | 79.7 | -19.6 | 0.209 |
| 4-1710 | 4-2410 | 0.419 | 274.9 | 17.1 | 12.99 | 1.240 | 102.4 | 0.546 | 2.025 | 324.5 | 558.4 | 0.920 | 3.130 | -9.54 | 0.429 | 70.4 | 80.9 | -18.1 | 0.215 |
| 4-1710 | 4-2430 | 0.421 | 276.3 | 14.2 | 12.25 | 1.241 | 103.2 | 0.552 | 2.035 | 322.3 | 559.9 | 0.912 | 3.159 | -9.17 | 0.434 | 68.7 | 82.4 | -16.8 | 0.222 |
| 4-1710 | 4-2450 | 0.426 | 277.8 | 11.4 | 11.56 | 1.242 | 104.1 | 0.559 | 2.046 | 320.1 | 561.4 | 0.903 | 3.189 | -8.77 | 0.439 | 67.0 | 84.1 | -15.6 | 0.229 |
| 4-1710 | 4-2470 | 0.432 | 279.4 | 8.6 | 10.92 | 1.243 | 105.0 | 0.566 | 2.057 | 317.7 | 562.8 | 0.892 | 3.222 | -8.48 | 0.445 | 65.3 | 86.0 | -14.6 | 0.237 |
| 4-1710 | 4-2490 | 0.441 | 281.1 | 6.1 | 10.32 | 1.244 | 106.0 | 0.574 | 2.068 | 315.2 | 564.1 | 0.881 | 3.256 | -8.25 | 0.451 | 63.8 | 88.2 | -13.7 | 0.246 |
| 4-1710 | 4-2510 | 0.452 | 282.9 | 3.6 | 9.73 | 1.245 | 107.1 | 0.583 | 2.080 | 312.6 | 565.3 | 0.868 | 3.292 | -8.06 | 0.456 | 62.2 | 90.6 | -12.8 | 0.255 |
| 4-1710 | 4-2530 | 0.465 | 284.8 | 1.3 | 9.17 | 1.246 | 108.2 | 0.592 | 2.092 | 309.9 | 566.5 | 0.853 | 3.330 | -7.91 | 0.462 | 60.7 | 93.2 | -12.1 | 0.265 |
| 4-1710 | 4-2550 | 0.480 | 286.7 | -0.9 | 8.63 | 1.247 | 109.4 | 0.602 | 2.104 | 307.0 | 567.5 | 0.838 | 3.370 | -7.80 | 0.469 | 59.2 | 95.9 | -11.5 | 0.275 |
| 4-1710 | 4-2570 | 0.498 | 288.7 | -2.9 | 8.09 | 1.248 | 110.7 | 0.612 | 2.116 | 304.1 | 568.5 | 0.820 | 3.411 | -7.73 | 0.475 | 57.7 | 98.8 | -10.9 | 0.286 |
| 4-1710 | 4-2590 | 0.517 | 290.8 | -4.8 | 7.55 | 1.249 | 112.1 | 0.624 | 2.128 | 300.9 | 569.3 | 0.801 | 3.456 | -7.69 | 0.481 | 56.2 | 101.9 | -10.4 | 0.298 |
| 4-1710 | 4-2610 | 0.539 | 292.9 | -6.5 | 7.01 | 1.251 | 113.5 | 0.636 | 2.141 | 297.7 | 570.0 | 0.780 | 3.502 | -7.70 | 0.488 | 54.7 | 105.1 | -9.9 | 0.311 |
| 4-1710 | 4-2630 | 0.563 | 295.1 | -8.2 | 6.46 | 1.252 | 115.0 | 0.649 | 2.154 | 294.2 | 570.7 | 0.756 | 3.551 | -7.74 | 0.494 | 53.2 | 108.5 | -9.5 | 0.324 |
| 4-1710 | 4-2650 | 0.590 | 297.4 | -9.6 | 5.89 | 1.253 | 116.7 | 0.663 | 2.166 | 290.6 | 571.1 | 0.731 | 3.602 | -7.82 | 0.501 | 51.6 | 112.0 | -9.1 | 0.339 |
| 4-1710 | 4-2670 | 0.619 | 299.7 | -11.0 | 5.30 | 1.254 | 118.5 | 0.678 | 2.180 | 286.8 | 571.5 | 0.702 | 3.657 | -7.95 | 0.508 | 50.0 | 115.7 | -8.7 | 0.355 |
| 4-1710 | 4-2690 | 0.651 | 302.1 | -12.2 | 4.69 | 1.255 | 120.4 | 0.694 | 2.193 | 282.9 | 571.7 | 0.671 | 3.714 | -8.13 | 0.514 | 48.3 | 119.5 | -8.4 | 0.372 |
| 4-1710 | 4-2710 | 0.686 | 304.6 | -13.2 | 4.03 | 1.256 | 122.4 | 0.711 | 2.206 | 278.7 | 571.7 | 0.637 | 3.775 | -8.36 | 0.521 | 46.6 | 123.5 | -8.1 | 0.390 |
| 4-1720 | 4-1880 | 0.601 | 262.7 | -22.7 | 0.24 | 1.540 | 102.8 | 1.323 | -2.917 | 337.5 | 459.6 | 0.944 | --- | 10.48 | 1.026 | 149.2 | 102.1 | 6.5 | 0.846 |
| 4-1720 | 4-1900 | 0.508 | 260.7 | -25.1 | -0.68 | 1.461 | 100.9 | 1.101 | -9.469 | 339.3 | 465.4 | 0.953 | --- | 10.99 | 0.901 | 146.3 | 103.4 | 7.6 | 0.720 |
| 4-1720 | 4-1920 | 0.440 | 258.1 | -28.4 | -1.69 | 1.403 | 99.1 | 0.944 | 17.059 | 341.2 | 471.3 | 0.961 | --- | 11.62 | 0.803 | 143.2 | 104.6 | 9.0 | 0.620 |
| 4-1720 | 4-1940 | 0.389 | 254.9 | -32.6 | -2.82 | 1.361 | 97.6 | 0.830 | 5.689 | 343.2 | 477.3 | 0.967 | --- | 12.38 | 0.724 | 140.0 | 105.5 | 10.7 | 0.539 |
| 4-1720 | 4-1960 | 0.354 | 251.0 | -37.9 | -4.10 | 1.329 | 96.3 | 0.746 | 3.832 | 345.2 | 483.2 | 0.972 | --- | 13.29 | 0.660 | 136.6 | 106.1 | 12.7 | 0.473 |
| 4-1720 | 4-1980 | 0.333 | 246.5 | -44.2 | -5.56 | 1.305 | 95.2 | 0.684 | 3.088 | 347.2 | 489.0 | 0.976 | --- | 14.42 | 0.608 | 133.0 | 106.2 | 15.3 | 0.420 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1720 | 4-2000 | 0.324 | 241.1 | -51.6 | -7.29 | 1.287 | 94.3 | 0.637 | 2.697 | 348.9 | 494.5 | 0.979 | --- | 15.81 | 0.566 | 129.4 | 105.9 | 18.4 | 0.377 |
| 4-1720 | 4-2020 | 0.329 | 234.3 | -59.6 | -9.36 | 1.273 | 93.6 | 0.601 | 2.462 | 350.5 | 499.8 | 0.981 | --- | 17.55 | 0.531 | 125.7 | 105.0 | 22.1 | 0.345 |
| 4-1720 | 4-2040 | 0.349 | 224.2 | -67.9 | -11.91 | 1.263 | 92.9 | 0.574 | 2.309 | 351.9 | 504.9 | 0.983 | --- | 19.79 | 0.502 | 121.9 | 103.4 | 26.5 | 0.323 |
| 4-1720 | 4-2060 | 0.387 | 205.8 | -75.7 | -15.16 | 1.255 | 92.5 | 0.554 | 2.206 | 353.1 | 509.6 | 0.984 | --- | 22.73 | 0.479 | 118.2 | 101.0 | 31.5 | 0.312 |
| 4-1720 | 4-2080 | 0.450 | 162.9 | -80.6 | -19.45 | 1.249 | 92.1 | 0.539 | 2.133 | 354.1 | 514.1 | 0.984 | --- | 26.72 | 0.461 | 114.5 | 97.5 | 36.7 | 0.315 |
| 4-1720 | 4-2100 | 0.546 | 110.1 | -77.8 | -25.36 | 1.244 | 91.7 | 0.527 | 2.082 | 355.0 | 518.3 | 0.985 | --- | 32.33 | 0.446 | 110.9 | 93.0 | 41.5 | 0.336 |
| 4-1720 | 4-2120 | 0.692 | 85.6 | -69.7 | -33.87 | 1.241 | 91.4 | 0.518 | 2.045 | 355.9 | 522.2 | 0.985 | --- | 40.54 | 0.434 | 107.3 | 87.8 | 44.9 | 0.381 |
| 4-1720 | 4-2140 | 0.914 | 73.5 | -59.2 | -46.57 | 1.238 | 91.0 | 0.512 | 2.019 | 357.1 | 526.0 | 0.986 | --- | 52.95 | 0.425 | 103.8 | 82.8 | 45.5 | 0.461 |
| 4-1720 | 4-2160 | 1.226 | 65.7 | -46.5 | -65.17 | 1.236 | 90.3 | 0.507 | 2.000 | 359.0 | 529.6 | 0.986 | --- | 71.26 | 0.418 | 100.3 | 79.5 | 42.1 | 0.581 |
| 4-1720 | 4-2200 | 1.294 | 343.8 | 67.2 | 69.38 | 1.234 | 95.2 | 0.508 | 1.981 | 344.5 | 534.4 | 0.974 | --- | -63.86 | 0.410 | 95.7 | 83.7 | -44.0 | 0.527 |
| 4-1720 | 4-2220 | 1.029 | 314.6 | 67.9 | 53.17 | 1.234 | 94.9 | 0.507 | 1.977 | 345.4 | 537.4 | 0.976 | --- | -47.94 | 0.408 | 92.7 | 85.2 | -46.7 | 0.416 |
| 4-1720 | 4-2240 | 0.842 | 295.3 | 64.4 | 42.31 | 1.234 | 94.9 | 0.506 | 1.976 | 345.4 | 540.1 | 0.976 | 2.977 | -37.37 | 0.407 | 89.9 | 85.3 | -46.6 | 0.340 |
| 4-1720 | 4-2260 | 0.714 | 284.7 | 59.6 | 34.96 | 1.234 | 95.1 | 0.507 | 1.978 | 344.9 | 542.7 | 0.975 | 2.981 | -30.31 | 0.408 | 87.2 | 84.5 | -44.8 | 0.291 |
| 4-1720 | 4-2280 | 0.625 | 279.0 | 54.8 | 29.77 | 1.234 | 95.4 | 0.509 | 1.981 | 344.1 | 545.1 | 0.973 | 2.989 | -25.41 | 0.409 | 84.8 | 83.4 | -42.2 | 0.260 |
| 4-1720 | 4-2300 | 0.561 | 275.9 | 50.1 | 25.94 | 1.235 | 95.8 | 0.511 | 1.986 | 342.9 | 547.4 | 0.972 | 3.001 | -21.87 | 0.411 | 82.5 | 82.3 | -39.2 | 0.240 |
| 4-1720 | 4-2320 | 0.514 | 274.3 | 45.6 | 22.99 | 1.235 | 96.2 | 0.514 | 1.993 | 341.6 | 549.5 | 0.969 | 3.016 | -19.23 | 0.413 | 80.3 | 81.5 | -36.1 | 0.228 |
| 4-1720 | 4-2340 | 0.479 | 273.6 | 41.3 | 20.65 | 1.236 | 96.7 | 0.517 | 2.000 | 340.1 | 551.5 | 0.966 | 3.034 | -17.19 | 0.417 | 78.2 | 81.1 | -33.2 | 0.220 |
| 4-1720 | 4-2360 | 0.453 | 273.7 | 37.1 | 18.74 | 1.237 | 97.3 | 0.521 | 2.008 | 338.5 | 553.5 | 0.963 | 3.054 | -15.59 | 0.420 | 76.2 | 81.1 | -30.4 | 0.217 |
| 4-1720 | 4-2380 | 0.434 | 274.2 | 33.0 | 17.13 | 1.238 | 98.0 | 0.525 | 2.017 | 336.8 | 555.3 | 0.959 | 3.076 | -14.30 | 0.424 | 74.3 | 81.5 | -27.8 | 0.216 |
| 4-1720 | 4-2400 | 0.420 | 275.1 | 29.1 | 15.76 | 1.239 | 98.6 | 0.529 | 2.027 | 334.9 | 557.1 | 0.954 | 3.100 | -13.26 | 0.429 | 72.5 | 82.3 | -25.5 | 0.218 |
| 4-1720 | 4-2420 | 0.410 | 276.3 | 25.3 | 14.56 | 1.240 | 99.4 | 0.534 | 2.037 | 332.9 | 558.7 | 0.949 | 3.125 | -12.39 | 0.434 | 70.8 | 83.4 | -23.5 | 0.221 |
| 4-1720 | 4-2440 | 0.404 | 277.7 | 21.6 | 13.49 | 1.241 | 100.2 | 0.540 | 2.047 | 330.8 | 560.3 | 0.942 | 3.152 | -11.67 | 0.439 | 69.2 | 84.7 | -21.7 | 0.225 |
| 4-1720 | 4-2460 | 0.402 | 279.4 | 18.1 | 12.53 | 1.242 | 101.0 | 0.546 | 2.058 | 328.6 | 561.9 | 0.935 | 3.181 | -11.08 | 0.444 | 67.6 | 86.4 | -20.1 | 0.230 |
| 4-1720 | 4-2480 | 0.403 | 281.2 | 14.7 | 11.66 | 1.243 | 101.9 | 0.552 | 2.069 | 326.3 | 563.3 | 0.927 | 3.212 | -10.58 | 0.450 | 66.1 | 88.3 | -18.6 | 0.236 |
| 4-1720 | 4-2500 | 0.406 | 283.1 | 11.5 | 10.85 | 1.244 | 102.8 | 0.559 | 2.081 | 323.8 | 564.7 | 0.918 | 3.244 | -10.16 | 0.455 | 64.7 | 90.4 | -17.4 | 0.243 |
| 4-1720 | 4-2520 | 0.412 | 285.1 | 8.4 | 10.09 | 1.245 | 103.8 | 0.566 | 2.093 | 321.3 | 566.0 | 0.908 | 3.277 | -9.81 | 0.461 | 63.2 | 92.7 | -16.3 | 0.251 |
| 4-1720 | 4-2540 | 0.421 | 287.2 | 5.5 | 9.38 | 1.246 | 104.8 | 0.574 | 2.105 | 318.7 | 567.2 | 0.897 | 3.313 | -9.53 | 0.467 | 61.8 | 95.2 | -15.3 | 0.259 |
| 4-1720 | 4-2560 | 0.432 | 289.5 | 2.8 | 8.69 | 1.247 | 106.0 | 0.582 | 2.117 | 315.9 | 568.3 | 0.884 | 3.349 | -9.30 | 0.473 | 60.5 | 97.9 | -14.4 | 0.268 |
| 4-1720 | 4-2580 | 0.445 | 291.7 | 0.3 | 8.03 | 1.248 | 107.1 | 0.592 | 2.129 | 313.0 | 569.3 | 0.870 | 3.388 | -9.12 | 0.480 | 59.1 | 100.8 | -13.6 | 0.278 |
| 4-1720 | 4-2600 | 0.461 | 294.1 | -2.0 | 7.38 | 1.249 | 108.4 | 0.601 | 2.141 | 310.0 | 570.3 | 0.854 | 3.429 | -8.99 | 0.486 | 57.8 | 103.8 | -12.9 | 0.288 |
| 4-1720 | 4-2620 | 0.479 | 296.5 | -4.2 | 6.75 | 1.250 | 109.7 | 0.612 | 2.154 | 306.8 | 571.1 | 0.836 | 3.472 | -8.90 | 0.493 | 56.4 | 106.9 | -12.2 | 0.299 |
| 4-1720 | 4-2640 | 0.499 | 298.9 | -6.1 | 6.11 | 1.252 | 111.1 | 0.623 | 2.167 | 303.5 | 571.9 | 0.817 | 3.516 | -8.86 | 0.499 | 55.1 | 110.2 | -11.7 | 0.311 |
| 4-1720 | 4-2660 | 0.522 | 301.4 | -7.9 | 5.47 | 1.253 | 112.6 | 0.635 | 2.179 | 300.0 | 572.5 | 0.795 | 3.564 | -8.87 | 0.506 | 53.7 | 113.7 | -11.2 | 0.324 |
| 4-1720 | 4-2680 | 0.548 | 304.0 | -9.4 | 4.82 | 1.254 | 114.3 | 0.648 | 2.192 | 296.4 | 573.0 | 0.771 | 3.614 | -8.92 | 0.512 | 52.2 | 117.3 | -10.7 | 0.338 |
| 4-1720 | 4-2700 | 0.576 | 306.5 | -10.8 | 4.15 | 1.255 | 116.0 | 0.663 | 2.205 | 292.6 | 573.4 | 0.744 | 3.667 | -9.02 | 0.519 | 50.8 | 121.0 | -10.3 | 0.353 |
| 4-1720 | 4-2720 | 0.607 | 309.2 | -12.0 | 3.46 | 1.256 | 117.8 | 0.678 | 2.219 | 288.6 | 573.6 | 0.715 | 3.723 | -9.18 | 0.525 | 49.2 | 124.9 | -9.9 | 0.369 |
| 4-1730 | 4-1890 | 0.541 | 261.2 | -23.7 | -0.19 | 1.520 | 98.0 | 1.277 | -3.509 | 345.7 | 459.8 | 0.971 | --- | 10.68 | 0.997 | 148.1 | 104.1 | 6.9 | 0.812 |
| 4-1730 | 4-1910 | 0.458 | 258.2 | -26.3 | -1.05 | 1.445 | 96.3 | 1.06 | 215.737 | 347.8 | 465.8 | 0.977 | --- | 11.06 | 0.877 | 145.2 | 105.3 | 8.0 | 0.691 |
| 4-1730 | 4-1930 | 0.397 | 254.4 | -29.6 | -1.96 | 1.391 | 94.8 | 0.91 | 211.109 | 350.0 | 472.0 | 0.981 | --- | 11.52 | 0.782 | 142.1 | 106.3 | 9.3 | 0.595 |
| 4-1730 | 4-1950 | 0.354 | 249.9 | -33.6 | -2.95 | 1.351 | 93.4 | 0.804 | 5.010 | 352.3 | 478.2 | 0.984 | --- | 12.07 | 0.706 | 138.8 | 107.0 | 10.8 | 0.517 |
| 4-1730 | 4-1970 | 0.325 | 244.8 | -38.2 | -4.03 | 1.321 | 92.3 | 0.725 | 3.582 | 354.5 | 484.4 | 0.986 | --- | 12.73 | 0.645 | 135.3 | 107.5 | 12.7 | 0.453 |
| 4-1730 | 4-1990 | 0.308 | 239.0 | -43.5 | -5.22 | 1.299 | 91.3 | 0.666 | 2.959 | 356.6 | 490.3 | 0.987 | --- | 13.53 | 0.595 | 131.8 | 107.6 | 15.0 | 0.402 |
| 4-1730 | 4-2010 | 0.301 | 232.6 | -49.2 | -6.57 | 1.282 | 90.6 | 0.623 | 2.619 | 358.5 | 495.9 | 0.988 | --- | 14.49 | 0.554 | 128.1 | 107.2 | 17.7 | 0.360 |
| 4-1730 | 4-2030 | 0.303 | 225.3 | -55.1 | -8.11 | 1.269 | 89.9 | 0.590 | 2.411 | 0.1 | 141.3 | --- | --- | 15.66 | 0.521 | 124.4 | 106.4 | 20.8 | 0.327 |
| 4-1730 | 4-2050 | 0.315 | 216.4 | -61.1 | -9.91 | 1.259 | 89.5 | 0.566 | 2.275 | 1.5 | 146.3 | --- | --- | 17.09 | 0.495 | 120.6 | 104.9 | 24.5 | 0.302 |
| 4-1730 | 4-2070 | 0.336 | 204.9 | -66.7 | -12.05 | 1.251 | 89.1 | 0.547 | 2.182 | 2.6 | 151.1 | --- | --- | 18.89 | 0.473 | 116.9 | 102.9 | 28.5 | 0.286 |
| 4-1730 | 4-2090 | 0.370 | 188.3 | -71.6 | -14.66 | 1.246 | 88.8 | 0.533 | 2.116 | 3.4 | 155.5 | --- | --- | 21.16 | 0.455 | 113.3 | 100.2 | 32.9 | 0.278 |
| 4-1730 | 4-2110 | 0.418 | 163.9 | -74.7 | -17.94 | 1.241 | 88.6 | 0.523 | 2.070 | 4.1 | 159.6 | --- | --- | 24.10 | 0.442 | 109.7 | 96.9 | 37.3 | 0.280 |
| 4-1730 | 4-2130 | 0.487 | 134.2 | -74.6 | -22.19 | 1.238 | 88.5 | 0.515 | 2.037 | 4.6 | 163.4 | --- | --- | 28.02 | 0.431 | 106.2 | 93.2 | 41.4 | 0.294 |
| 4-1730 | 4-2150 | 0.584 | 109.3 | -70.9 | -27.90 | 1.236 | 88.3 | 0.510 | 2.014 | 4.9 | 167.0 | --- | --- | 33.40 | 0.423 | 102.8 | 89.4 | 44.7 | 0.323 |
| 4-1730 | 4-2170 | 0.723 | 93.0 | -64.6 | -35.86 | 1.234 | 88.2 | 0.506 | 1.998 | 5.4 | 170.4 | --- | --- | 41.04 | 0.417 | 99.5 | 85.9 | 46.6 | 0.371 |
| 4-1730 | 4-2190 | 0.923 | 82.5 | -56.0 | -47.29 | 1.233 | 88.0 | 0.504 | 1.988 | 6.0 | 173.7 | --- | --- | 52.15 | 0.412 | 96.4 | 83.6 | 46.3 | 0.447 |
| 4-1730 | 4-2210 | 1.196 | 75.3 | -45.1 | -63.49 | 1.233 | 87.6 | 0.503 | 1.982 | 7.3 | 176.8 | --- | --- | 68.03 | 0.410 | 93.2 | 82.9 | 43.1 | 0.555 |
| 4-1730 | 4-2250 | 1.376 | 2.7 | 71.3 | 74.81 | 1.233 | 93.3 | 0.504 | 1.980 | 350.1 | 540.4 | 0.983 | 2.977 | -70.90 | 0.408 | 89.6 | 87.5 | -42.3 | 0.573 |
| 4-1730 | 4-2270 | 1.105 | 325.5 | 73.7 | 57.87 | 1.233 | 93.0 | 0.504 | 1.983 | 351.0 | 543.1 | 0.984 | 2.982 | -54.27 | 0.409 | 86.9 | 88.0 | -46.1 | 0.460 |
| 4-1730 | 4-2290 | 0.900 | 298.6 | 70.0 | 45.83 | 1.233 | 93.0 | 0.505 | 1.987 | 351.0 | 545.5 | 0.984 | 2.991 | -42.55 | 0.411 | 84.4 | 87.5 | -46.9 | 0.379 |
| 4-1730 | 4-2310 | 0.754 | 285.5 | 64.6 | 37.45 | 1.234 | 93.2 | 0.507 | 1.993 | 350.4 | 547.8 | 0.984 | 3.003 | -34.49 | 0.413 | 82.1 | 86.5 | -45.7 | 0.324 |
| 4-1730 | 4-2330 | 0.651 | 279.3 | 59.1 | 31.48 | 1.235 | 93.6 | 0.509 | 2.000 | 349.4 | 550.0 | 0.982 | 3.018 | -28.84 | 0.416 | 80.0 | 85.5 | -43.4 | 0.287 |
| 4-1730 | 4-2350 | 0.575 | 276.3 | 53.8 | 27.05 | 1.235 | 94.0 | 0.511 | 2.008 | 348.1 | 552.0 | 0.981 | 3.035 | -24.74 | 0.420 | 78.0 | 84.8 | -40.6 | 0.264 |
| 4-1730 | 4-2370 | 0.520 | 275.0 | 48.8 | 23.66 | 1.236 | 94.5 | 0.515 | 2.017 | 346.7 | 553.9 | 0.979 | 3.055 | -21.68 | 0.423 | 76.1 | 84.5 | -37.5 | 0.249 |
| 4-1730 | 4-2390 | 0.478 | 274.8 | 44.0 | 20.97 | 1.237 | 95.1 | 0.518 | 2.026 | 345.0 | 555.8 | 0.977 | 3.076 | -19.32 | 0.428 | 74.3 | 84.6 | -34.6 | 0.240 |
| 4-1730 | 4-2410 | 0.447 | 275.3 | 39.3 | 18.77 | 1.238 | 95.7 | 0.522 | 2.036 | 343.2 | 557.5 | 0.974 | 3.099 | -17.47 | 0.432 | 72.6 | 85.2 | -31.7 | 0.235 |
| 4-1730 | 4-2430 | 0.423 | 276.3 | 34.7 | 16.93 | 1.239 | 96.4 | 0.526 | 2.047 | 341.3 | 559.2 | 0.970 | 3.124 | -15.98 | 0.437 | 71.0 | 86.1 | -29.2 | 0.234 |
| 4-1730 | 4-2450 | 0.406 | 277.7 | 30.3 | 15.36 | 1.240 | 97.2 | 0.531 | 2.058 | 339.2 | 560.8 | 0.966 | 3.150 | -14.77 | 0.443 | 69.5 | 87.3 | -26.8 | 0.234 |
| 4-1730 | 4-2470 | 0.394 | 279.4 | 26.0 | 13.99 | 1.241 | 98.0 | 0.536 | 2.069 | 337.1 | 562.4 | 0.961 | 3.177 | -13.78 | 0.448 | 68.0 | 88.8 | -24.7 | 0.237 |
| 4-1730 | 4-2490 | 0.386 | 281.4 | 21.9 | 12.78 | 1.242 | 98.8 | 0.541 | 2.081 | 334.8 | 563.8 | 0.955 | 3.206 | -12.96 | 0.454 | 66.6 | 90.6 | -22.9 | 0.240 |
| 4-1730 | 4-2510 | 0.382 | 283.6 | 17.9 | 11.69 | 1.243 | 99.7 | 0.547 | 2.092 | 332.4 | 565.2 | 0.948 | 3.236 | -12.27 | 0.460 | 65.2 | 92.7 | -21.2 | 0.245 |
| 4-1730 | 4-2530 | 0.382 | 285.9 | 14.1 | 10.70 | 1.245 | 100.6 | 0.553 | 2.104 | 330.0 | 566.6 | 0.941 | 3.268 | -11.70 | 0.466 | 63.9 | 94.9 | -19.8 | 0.251 |
| 4-1730 | 4-2550 | 0.385 | 288.3 | 10.5 | 9.79 | 1.246 | 101.6 | 0.560 | 2.116 | 327.4 | 567.8 | 0.932 | 3.301 | -11.22 | 0.472 | 62.7 | 97.4 | -18.5 | 0.257 |
| 4-1730 | 4-2570 | 0.391 | 290.9 | 7.2 | 8.93 | 1.247 | 102.6 | 0.567 | 2.129 | 324.7 | 569.0 | 0.922 | 3.335 | -10.82 | 0.478 | 61.4 | 100.0 | -17.3 | 0.265 |
| 4-1730 | 4-2590 | 0.400 | 293.6 | 4.0 | 8.12 | 1.248 | 103.7 | 0.574 | 2.141 | 321.8 | 570.1 | 0.911 | 3.371 | -10.50 | 0.484 | 60.2 | 102.8 | -16.3 | 0.273 |
| 4-1730 | 4-2610 | 0.411 | 296.3 | 1.2 | 7.35 | 1.249 | 104.9 | 0.583 | 2.154 | 318.9 | 571.2 | 0.898 | 3.409 | -10.24 | 0.491 | 59.0 | 105.7 | -15.4 | 0.282 |
| 4-1730 | 4-2630 | 0.425 | 299.0 | -1.4 | 6.60 | 1.250 | 106.1 | 0.592 | 2.166 | 315.8 | 572.1 | 0.884 | 3.448 | -10.04 | 0.497 | 57.8 | 108.8 | -14.6 | 0.291 |
| 4-1730 | 4-2650 | 0.442 | 301.8 | -3.8 | 5.88 | 1.251 | 107.5 | 0.602 | 2.179 | 312.6 | 573.0 | 0.868 | 3.490 | -9.89 | 0.504 | 56.5 | 112.1 | -13.8 | 0.302 |
| 4-1730 | 4-2670 | 0.462 | 304.7 | -5.9 | 5.16 | 1.252 | 108.9 | 0.612 | 2.192 | 309.3 | 573.7 | 0.850 | 3.533 | -9.79 | 0.510 | 55.3 | 115.5 | -13.2 | 0.313 |
| 4-1730 | 4-2690 | 0.484 | 307.6 | -7.8 | 4.44 | 1.253 | 110.3 | 0.623 | 2.205 | 305.8 | 574.4 | 0.830 | 3.579 | -9.75 | 0.517 | 54.1 | 119.0 | -12.6 | 0.325 |
| 4-1730 | 4-2710 | 0.509 | 310.4 | -9.4 | 3.72 | 1.254 | 111.9 | 0.636 | 2.218 | 302.1 | 574.9 | 0.808 | 3.628 | -9.76 | 0.523 | 52.8 | 122.7 | -12.0 | 0.338 |
| 4-1730 | 4-2730 | 0.536 | 313.3 | -10.9 | 2.98 | 1.255 | 113.6 | 0.649 | 2.231 | 298.2 | 575.3 | 0.783 | 3.679 | -9.82 | 0.530 | 51.4 | 126.5 | -11.6 | 0.353 |
| 4-1740 | 4-1880 | 0.597 | 260.3 | -22.6 | 0.21 | 1.595 | 94.5 | 1.517 | -1.904 | 352.6 | 454.5 | 0.985 | --- | 10.56 | 1.112 | 149.8 | 104.6 | 6.4 | 0.923 |
| 4-1740 | 4-1900 | 0.494 | 256.9 | -24.6 | -0.57 | 1.497 | 92.9 | 1.218 | -4.533 | 354.7 | 460.7 | 0.988 | --- | 10.75 | 0.963 | 147.1 | 105.7 | 7.2 | 0.775 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1740 | 4-1920 | 0.421 | 252.5 | -27.2 | -1.38 | 1.427 | 91.5 | 1.01662 | 646 | 357.1 | 467.1 | 0.990 | --- | 11.00 | 0.848 | 144.1 | 106.8 | 8.3 | 0.660 |
| 4-1740 | 4-1940 | 0.370 | 247.4 | -30.2 | -2.22 | 1.376 | 90.2 | 0.875 | 7.932 | 359.7 | 473.6 | 0.990 | --- | 11.31 | 0.758 | 141.0 | 107.6 | -9.5 | 0.568 |
| 4-1740 | 4-1960 | 0.335 | 241.6 | -33.6 | -3.10 | 1.339 | 89.0 | 0.775 | 4.398 | 2.2 | 120.0 | --- | --- | 11.70 | 0.685 | 137.6 | 108.2 | 10.9 | 0.493 |
| 4-1740 | 4-1980 | 0.313 | 235.5 | -37.3 | -4.04 | 1.311 | 88.1 | 0.702 | 3.323 | 4.7 | 126.3 | --- | --- | 12.16 | 0.627 | 134.1 | 108.4 | 12.7 | 0.432 |
| 4-1740 | 4-2000 | 0.300 | 229.2 | -41.2 | -5.05 | 1.290 | 87.3 | 0.649 | 2.816 | 6.9 | 132.4 | --- | --- | 12.73 | 0.579 | 130.5 | 108.3 | 14.7 | 0.383 |
| 4-1740 | 4-2020 | 0.296 | 222.7 | -45.2 | -6.16 | 1.274 | 86.7 | 0.610 | 2.529 | 8.8 | 138.1 | --- | --- | 13.40 | 0.541 | 126.7 | 107.9 | 17.1 | 0.342 |
| 4-1740 | 4-2040 | 0.298 | 216.2 | -49.4 | -7.38 | 1.263 | 86.2 | 0.581 | 2.349 | 10.4 | 143.4 | --- | --- | 14.20 | 0.510 | 123.0 | 106.9 | 19.8 | 0.310 |
| 4-1740 | 4-2060 | 0.305 | 209.4 | -53.6 | -8.75 | 1.254 | 85.8 | 0.559 | 2.231 | 11.7 | 148.4 | --- | --- | 15.17 | 0.484 | 119.2 | 105.4 | 22.9 | 0.284 |
| 4-1740 | 4-2080 | 0.319 | 201.9 | -57.8 | -10.30 | 1.247 | 85.5 | 0.543 | 2.149 | 12.7 | 153.1 | --- | --- | 16.34 | 0.464 | 115.5 | 103.5 | 26.3 | 0.266 |
| 4-1740 | 4-2100 | 0.339 | 193.2 | -61.8 | -12.11 | 1.242 | 85.4 | 0.531 | 2.092 | 13.4 | 157.4 | --- | --- | 17.76 | 0.448 | 111.8 | 101.0 | 29.9 | 0.254 |
| 4-1740 | 4-2120 | 0.367 | 182.4 | -65.5 | -14.25 | 1.238 | 85.3 | 0.522 | 2.051 | 13.8 | 161.3 | --- | --- | 19.53 | 0.436 | 108.3 | 98.1 | 33.7 | 0.250 |
| 4-1740 | 4-2140 | 0.404 | 168.5 | -68.4 | -16.83 | 1.235 | 85.3 | 0.515 | 2.023 | 14.0 | 165.0 | --- | --- | 21.76 | 0.426 | 104.8 | 95.0 | 37.3 | 0.252 |
| 4-1740 | 4-2160 | 0.454 | 151.1 | -69.9 | -20.04 | 1.233 | 85.3 | 0.511 | 2.004 | 14.0 | 168.5 | --- | --- | 24.61 | 0.419 | 101.5 | 91.8 | 40.7 | 0.262 |
| 4-1740 | 4-2180 | 0.521 | 131.9 | -69.5 | -24.14 | 1.232 | 85.3 | 0.507 | 1.991 | 13.9 | 171.7 | --- | --- | 28.36 | 0.414 | 98.4 | 88.9 | 43.6 | 0.282 |
| 4-1740 | 4-2200 | 0.614 | 114.5 | -66.7 | -29.55 | 1.231 | 85.4 | 0.505 | 1.983 | 13.7 | 174.7 | --- | --- | 33.42 | 0.411 | 95.3 | 86.5 | 45.8 | 0.314 |
| 4-1740 | 4-2220 | 0.742 | 100.9 | -61.5 | -36.93 | 1.231 | 85.4 | 0.504 | 1.980 | 13.7 | 177.6 | --- | --- | 40.47 | 0.409 | 92.4 | 85.2 | 47.0 | 0.362 |
| 4-1740 | 4-2240 | 0.923 | 91.2 | -54.2 | -47.29 | 1.231 | 85.4 | 0.504 | 1.979 | 13.8 | 180.4 | --- | 2.977 | 50.49 | 0.408 | 89.6 | 85.1 | 46.6 | 0.433 |
| 4-1740 | 4-2260 | 1.166 | 84.5 | -44.6 | -61.77 | 1.231 | 85.1 | 0.505 | 1.981 | 14.5 | 183.0 | --- | 2.982 | 64.64 | 0.408 | 86.9 | 86.6 | 43.9 | 0.532 |
| 4-1740 | 4-2300 | 1.439 | 25.5 | 74.8 | 79.15 | 1.232 | 91.6 | 0.503 | 1.990 | 355.2 | 545.8 | 0.989 | 2.991 | -76.95 | 0.412 | 84.1 | 92.9 | -40.6 | 0.614 |
| 4-1740 | 4-2320 | 1.164 | 336.4 | 79.3 | 61.55 | 1.232 | 91.2 | 0.504 | 1.997 | 356.3 | 548.3 | 0.990 | 3.004 | -59.69 | 0.415 | 81.8 | 92.8 | -45.0 | 0.501 |
| 4-1740 | 4-2340 | 0.943 | 296.8 | 74.9 | 48.43 | 1.233 | 91.3 | 0.506 | 2.005 | 356.3 | 550.5 | 0.990 | 3.020 | -46.90 | 0.418 | 79.6 | 91.8 | -46.5 | 0.414 |
| 4-1740 | 4-2360 | 0.781 | 282.5 | 68.4 | 39.10 | 1.234 | 91.5 | 0.509 | 2.014 | 355.6 | 552.5 | 0.989 | 3.038 | -37.91 | 0.422 | 77.6 | 90.5 | -45.8 | 0.353 |
| 4-1740 | 4-2380 | 0.665 | 277.0 | 62.0 | 32.41 | 1.235 | 91.9 | 0.511 | 2.023 | 354.4 | 554.5 | 0.989 | 3.058 | -31.56 | 0.426 | 75.8 | 89.4 | -43.7 | 0.313 |
| 4-1740 | 4-2400 | 0.580 | 274.8 | 56.1 | 27.46 | 1.236 | 92.4 | 0.514 | 2.033 | 353.0 | 556.3 | 0.988 | 3.079 | -26.96 | 0.431 | 74.1 | 88.9 | -41.0 | 0.286 |
| 4-1740 | 4-2420 | 0.516 | 274.4 | 50.5 | 23.67 | 1.237 | 92.9 | 0.517 | 2.044 | 351.4 | 558.1 | 0.987 | 3.102 | -23.52 | 0.436 | 72.5 | 88.9 | -38.0 | 0.269 |
| 4-1740 | 4-2440 | 0.469 | 274.9 | 45.1 | 20.67 | 1.238 | 93.6 | 0.521 | 2.055 | 349.6 | 559.8 | 0.985 | 3.126 | -20.88 | 0.441 | 70.9 | 89.4 | -35.0 | 0.259 |
| 4-1740 | 4-2460 | 0.433 | 276.1 | 40.0 | 18.23 | 1.239 | 94.3 | 0.525 | 2.067 | 347.6 | 561.4 | 0.982 | 3.151 | -18.82 | 0.446 | 69.5 | 90.3 | -32.2 | 0.253 |
| 4-1740 | 4-2480 | 0.406 | 277.9 | 35.0 | 16.20 | 1.240 | 95.0 | 0.529 | 2.078 | 345.5 | 562.9 | 0.979 | 3.177 | -17.17 | 0.452 | 68.1 | 91.6 | -29.7 | 0.250 |
| 4-1740 | 4-2500 | 0.386 | 279.9 | 30.1 | 14.48 | 1.241 | 95.8 | 0.533 | 2.090 | 343.3 | 564.4 | 0.976 | 3.204 | -15.83 | 0.458 | 66.8 | 93.2 | -27.3 | 0.250 |
| 4-1740 | 4-2520 | 0.373 | 282.3 | 25.3 | 12.98 | 1.243 | 96.6 | 0.538 | 2.102 | 341.0 | 565.8 | 0.971 | 3.233 | -14.73 | 0.464 | 65.6 | 95.1 | -25.2 | 0.252 |
| 4-1740 | 4-2540 | 0.364 | 285.0 | 20.8 | 11.65 | 1.244 | 97.5 | 0.543 | 2.115 | 338.5 | 567.2 | 0.966 | 3.263 | -13.82 | 0.470 | 64.4 | 97.2 | -23.4 | 0.255 |
| 4-1740 | 4-2560 | 0.359 | 287.8 | 16.4 | 10.46 | 1.245 | 98.5 | 0.549 | 2.127 | 336.0 | 568.5 | 0.960 | 3.294 | -13.07 | 0.476 | 63.2 | 99.6 | -21.7 | 0.259 |
| 4-1740 | 4-2580 | 0.359 | 290.8 | 12.2 | 9.38 | 1.246 | 99.4 | 0.555 | 2.140 | 333.3 | 569.7 | 0.953 | 3.326 | -12.44 | 0.482 | 62.0 | 102.1 | -20.3 | 0.265 |
| 4-1740 | 4-2600 | 0.362 | 293.9 | 8.4 | 8.38 | 1.247 | 100.5 | 0.561 | 2.152 | 330.6 | 570.9 | 0.944 | 3.360 | -11.91 | 0.488 | 60.9 | 104.8 | -19.0 | 0.271 |
| 4-1740 | 4-2620 | 0.369 | 297.1 | 4.8 | 7.45 | 1.248 | 101.6 | 0.568 | 2.165 | 327.7 | 572.0 | 0.935 | 3.395 | -11.48 | 0.495 | 59.8 | 107.7 | -17.8 | 0.278 |
| 4-1740 | 4-2640 | 0.379 | 300.4 | 1.6 | 6.58 | 1.249 | 102.8 | 0.576 | 2.178 | 324.7 | 573.0 | 0.924 | 3.432 | -11.13 | 0.501 | 58.8 | 110.8 | -16.8 | 0.287 |
| 4-1740 | 4-2660 | 0.392 | 303.6 | -1.4 | 5.74 | 1.250 | 104.0 | 0.584 | 2.191 | 321.6 | 574.0 | 0.911 | 3.470 | -10.84 | 0.508 | 57.7 | 114.0 | -15.9 | 0.295 |
| 4-1740 | 4-2680 | 0.408 | 307.0 | -3.9 | 4.93 | 1.251 | 105.3 | 0.593 | 2.204 | 318.3 | 574.8 | 0.897 | 3.510 | -10.63 | 0.514 | 56.6 | 117.3 | -15.0 | 0.305 |
| 4-1740 | 4-2700 | 0.426 | 310.3 | -6.2 | 4.13 | 1.252 | 106.7 | 0.603 | 2.217 | 314.9 | 575.6 | 0.881 | 3.552 | -10.47 | 0.521 | 55.5 | 120.8 | -14.3 | 0.316 |
| 4-1740 | 4-2720 | 0.448 | 313.6 | -8.1 | 3.35 | 1.253 | 108.1 | 0.613 | 2.230 | 311.3 | 576.2 | 0.863 | 3.597 | -10.37 | 0.527 | 54.4 | 124.4 | -13.6 | 0.327 |
| 4-1740 | 4-2740 | 0.472 | 316.8 | -9.8 | 2.57 | 1.255 | 109.7 | 0.625 | 2.243 | 307.6 | 576.8 | 0.842 | 3.644 | -10.33 | 0.534 | 53.2 | 128.1 | -13.0 | 0.340 |
| 4-1750 | 4-1890 | 0.556 | 254.7 | -23.2 | -0.17 | 1.563 | 88.8 | 1.426 | -2.328 | 2.0 | 95.9 | --- | --- | 10.62 | 1.067 | 149.0 | 106.0 | 6.6 | 0.878 |
| 4-1750 | 4-1910 | 0.466 | 249.9 | -25.1 | -0.93 | 1.472 | 87.6 | 1.149 | -6.632 | 4.6 | 102.5 | --- | --- | 10.70 | 0.925 | 146.2 | 106.9 | 7.4 | 0.737 |
| 4-1750 | 4-1930 | 0.405 | 244.2 | -27.3 | -1.70 | 1.407 | 86.4 | 0.964 | 27.782 | 7.4 | 109.3 | --- | --- | 10.83 | 0.816 | 143.2 | 107.8 | 8.4 | 0.628 |
| 4-1750 | 4-1950 | 0.364 | 238.1 | -29.7 | -2.48 | 1.360 | 85.3 | 0.836 | 6.023 | 10.3 | 116.1 | --- | --- | 11.02 | 0.730 | 139.9 | 108.4 | 9.6 | 0.540 |
| 4-1750 | 4-1970 | 0.338 | 231.8 | -32.1 | -3.29 | 1.325 | 84.4 | 0.746 | 3.866 | 13.1 | 122.8 | --- | --- | 11.26 | 0.661 | 136.5 | 108.7 | 10.9 | 0.469 |
| 4-1750 | 4-1990 | 0.323 | 225.7 | -34.7 | -4.12 | 1.300 | 83.7 | 0.681 | 3.070 | 15.6 | 129.2 | --- | --- | 11.57 | 0.605 | 132.9 | 108.8 | 12.5 | 0.411 |
| 4-1750 | 4-2010 | 0.314 | 220.0 | -37.3 | -5.00 | 1.280 | 83.1 | 0.635 | 2.667 | 17.9 | 135.3 | --- | --- | 11.95 | 0.561 | 129.1 | 108.5 | 14.3 | 0.363 |
| 4-1750 | 4-2030 | 0.312 | 214.7 | -40.0 | -5.94 | 1.266 | 82.6 | 0.600 | 2.430 | 19.8 | 141.0 | --- | --- | 12.41 | 0.524 | 125.3 | 107.8 | 16.5 | 0.325 |
| 4-1750 | 4-2050 | 0.313 | 209.8 | -42.9 | -6.94 | 1.255 | 82.3 | 0.575 | 2.279 | 21.3 | 146.2 | --- | --- | 12.96 | 0.495 | 121.5 | 106.6 | 18.8 | 0.293 |
| 4-1750 | 4-2070 | 0.318 | 205.0 | -46.0 | -8.04 | 1.247 | 82.0 | 0.557 | 2.179 | 22.4 | 151.1 | --- | --- | 13.61 | 0.472 | 117.7 | 105.0 | 21.5 | 0.269 |
| 4-1750 | 4-2090 | 0.327 | 200.3 | -49.1 | -9.25 | 1.241 | 81.9 | 0.543 | 2.109 | 23.2 | 155.6 | --- | --- | 14.40 | 0.454 | 113.9 | 102.9 | 24.3 | 0.250 |
| 4-1750 | 4-2110 | 0.339 | 195.3 | -52.5 | -10.59 | 1.237 | 81.8 | 0.532 | 2.061 | 23.7 | 159.7 | --- | --- | 15.34 | 0.439 | 110.3 | 100.4 | 27.4 | 0.237 |
| 4-1750 | 4-2130 | 0.355 | 189.8 | -55.9 | -12.12 | 1.233 | 81.8 | 0.525 | 2.027 | 23.9 | 163.5 | --- | --- | 16.47 | 0.428 | 106.7 | 97.7 | 30.5 | 0.229 |
| 4-1750 | 4-2150 | 0.376 | 183.1 | -59.2 | -13.89 | 1.231 | 81.9 | 0.519 | 2.004 | 23.9 | 167.0 | --- | --- | 17.85 | 0.420 | 103.3 | 94.8 | 33.5 | 0.227 |
| 4-1750 | 4-2170 | 0.404 | 174.8 | -62.3 | -15.96 | 1.230 | 82.0 | 0.515 | 1.989 | 23.6 | 170.3 | --- | --- | 19.55 | 0.414 | 100.0 | 91.9 | 36.4 | 0.230 |
| 4-1750 | 4-2190 | 0.439 | 164.2 | -64.9 | -18.45 | 1.229 | 82.2 | 0.512 | 1.979 | 23.2 | 173.3 | --- | --- | 21.67 | 0.410 | 96.9 | 89.2 | 39.1 | 0.238 |
| 4-1750 | 4-2210 | 0.487 | 151.1 | -66.4 | -21.52 | 1.228 | 82.4 | 0.510 | 1.974 | 22.6 | 176.2 | --- | --- | 24.38 | 0.407 | 94.0 | 87.0 | 41.6 | 0.252 |
| 4-1750 | 4-2230 | 0.549 | 136.2 | -66.3 | -25.40 | 1.228 | 82.6 | 0.509 | 1.973 | 22.0 | 178.9 | --- | --- | 27.90 | 0.406 | 91.2 | 85.5 | 43.8 | 0.275 |
| 4-1750 | 4-2250 | 0.634 | 121.6 | -64.3 | -30.47 | 1.228 | 82.8 | 0.509 | 1.974 | 21.4 | 181.4 | --- | 2.978 | 32.62 | 0.406 | 88.5 | 84.9 | 45.5 | 0.307 |
| 4-1750 | 4-2270 | 0.752 | 109.2 | -60.1 | -37.30 | 1.228 | 83.0 | 0.509 | 1.978 | 20.8 | 183.9 | --- | 2.984 | 39.10 | 0.408 | 86.0 | 85.4 | 46.5 | 0.353 |
| 4-1750 | 4-2290 | 0.915 | 99.8 | -53.7 | -46.78 | 1.229 | 83.1 | 0.510 | 1.983 | 20.5 | 186.2 | --- | 2.995 | 48.23 | 0.410 | 83.6 | 87.3 | 46.4 | 0.419 |
| 4-1750 | 4-2310 | 1.137 | 93.3 | -45.0 | -60.01 | 1.230 | 83.1 | 0.512 | 1.990 | 20.6 | 188.5 | --- | 3.009 | 61.12 | 0.412 | 81.3 | 90.5 | 44.3 | 0.510 |
| 4-1750 | 4-2330 | 1.412 | 89.0 | -34.1 | -77.52 | 1.230 | 82.7 | 0.515 | 1.998 | 21.6 | 190.8 | --- | 3.027 | 78.29 | 0.415 | 79.0 | 94.6 | 39.7 | 0.625 |
| 4-1750 | 4-2370 | 1.205 | 349.0 | 84.8 | 64.20 | 1.232 | 89.6 | 0.508 | 2.017 | 1.2 | 193.0 | --- | 3.041 | -64.12 | 0.423 | 77.3 | 98.7 | -43.8 | 0.537 |
| 4-1750 | 4-2390 | 0.969 | 285.8 | 78.6 | 50.01 | 1.233 | 89.6 | 0.510 | 2.027 | 1.2 | 195.0 | --- | 3.062 | -50.28 | 0.428 | 75.4 | 97.3 | -45.8 | 0.444 |
| 4-1750 | 4-2410 | 0.792 | 275.3 | 70.4 | 39.79 | 1.234 | 89.9 | 0.513 | 2.038 | 0.4 | 196.9 | --- | 3.083 | -40.41 | 0.433 | 73.7 | 95.6 | -45.4 | 0.378 |
| 4-1750 | 4-2430 | 0.664 | 272.6 | 63.1 | 32.46 | 1.236 | 90.3 | 0.516 | 2.049 | 359.2 | 558.6 | 0.993 | 3.106 | -33.43 | 0.438 | 72.1 | 94.4 | -43.5 | 0.334 |
| 4-1750 | 4-2450 | 0.571 | 272.2 | 56.6 | 27.05 | 1.237 | 90.8 | 0.518 | 2.061 | 357.6 | 560.3 | 0.993 | 3.130 | -28.39 | 0.444 | 70.7 | 94.0 | -40.7 | 0.305 |
| 4-1750 | 4-2470 | 0.502 | 273.1 | 50.4 | 22.94 | 1.238 | 91.4 | 0.522 | 2.073 | 355.8 | 561.9 | 0.992 | 3.154 | -24.64 | 0.449 | 69.3 | 94.2 | -37.7 | 0.286 |
| 4-1750 | 4-2490 | 0.451 | 274.6 | 44.6 | 19.71 | 1.239 | 92.1 | 0.525 | 2.085 | 353.8 | 563.5 | 0.991 | 3.180 | -21.79 | 0.455 | 68.0 | 94.9 | -34.8 | 0.275 |
| 4-1750 | 4-2510 | 0.412 | 276.8 | 38.9 | 17.10 | 1.240 | 92.9 | 0.528 | 2.098 | 351.7 | 565.0 | 0.989 | 3.207 | -19.56 | 0.461 | 66.8 | 96.2 | -32.0 | 0.268 |
| 4-1750 | 4-2530 | 0.383 | 279.3 | 33.4 | 14.93 | 1.241 | 93.7 | 0.532 | 2.110 | 349.4 | 566.4 | 0.987 | 3.234 | -17.78 | 0.467 | 65.6 | 97.8 | -29.4 | 0.265 |
| 4-1750 | 4-2550 | 0.362 | 282.3 | 28.1 | 13.09 | 1.242 | 94.5 | 0.537 | 2.123 | 347.0 | 567.8 | 0.984 | 3.262 | -16.35 | 0.473 | 64.5 | 99.7 | -27.1 | 0.264 |
| 4-1750 | 4-2570 | 0.348 | 285.5 | 22.9 | 11.50 | 1.244 | 95.4 | 0.541 | 2.136 | 344.6 | 569.1 | 0.980 | 3.292 | -15.18 | 0.480 | 63.5 | 101.9 | -25.0 | 0.266 |
| 4-1750 | 4-2590 | 0.339 | 288.9 | 17.9 | 10.10 | 1.245 | 96.4 | 0.546 | 2.149 | 341.9 | 570.4 | 0.976 | 3.322 | -14.22 | 0.486 | 62.4 | 104.3 | -23.2 | 0.269 |
| 4-1750 | 4-2610 | 0.335 | 292.5 | 13.2 | 8.85 | 1.246 | 97.4 | 0.551 | 2.162 | 339.2 | 571.6 | 0.970 | 3.354 | -13.42 | 0.492 | 61.4 | 107.0 | -21.6 | 0.273 |
| 4-1750 | 4-2630 | 0.336 | 296.3 | 8.8 | 7.71 | 1.247 | 98.4 | 0.557 | 2.175 | 336.4 | 572.8 | 0.963 | 3.387 | -12.76 | 0.499 | 60.4 | 109.8 | -20.1 | 0.278 |
| 4-1750 | 4-2650 | 0.340 | 300.1 | 4.8 | 6.67 | 1.248 | 99.5 | 0.563 | 2.188 | 333.5 | 573.8 | 0.955 | 3.421 | -12.21 | 0.505 | 59.5 | 112.8 | -18.9 | 0.285 |
| 4-1750 | 4-2670 | 0.349 | 304.0 | 1.2 | 5.69 | 1.249 | 100.7 | 0.570 | 2.201 | 330.4 | 574.9 | 0.946 | 3.457 | -11.75 | 0.512 | 58.5 | 115.9 | -17.7 | 0.292 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1750 | 4-2690 | 0.360 | 307.9 | -2.0 | 4.77 | 1.250 | 101.9 | 0.578 | 2.214 | 327.2 | 575.8 | 0.935 | 3.494 | -11.39 | 0.518 | 57.5 | 119.2 | -16.7 | 0.300 |
| 4-1750 | 4-2710 | 0.375 | 311.8 | -4.7 | 3.89 | 1.251 | 103.2 | 0.586 | 2.228 | 323.9 | 576.7 | 0.922 | 3.533 | -11.10 | 0.525 | 56.6 | 122.6 | -15.8 | 0.309 |
| 4-1750 | 4-2730 | 0.393 | 315.7 | -7.0 | 3.03 | 1.252 | 104.6 | 0.595 | 2.241 | 320.4 | 577.4 | 0.908 | 3.574 | -10.87 | 0.531 | 55.6 | 126.2 | -15.0 | 0.319 |
| 4-1750 | 4-2750 | 0.414 | 319.5 | -9.0 | 2.20 | 1.253 | 106.0 | 0.605 | 2.254 | 316.8 | 578.1 | 0.891 | 3.617 | -10.72 | 0.538 | 54.6 | 129.9 | -14.3 | 0.330 |
| 4-1760 | 4-1900 | 0.542 | 247.1 | -23.3 | -0.55 | 1.529 | 82.9 | 1.324 | -3.029 | 12.4 | 98.4 | --- | --- | 10.55 | 1.018 | 148.4 | 106.9 | 6.7 | 0.832 |
| 4-1760 | 4-1920 | 0.466 | 241.3 | -24.9 | -1.29 | 1.445 | 82.0 | 1.076 | 12.848 | 15.5 | 105.5 | --- | --- | 10.53 | 0.884 | 145.5 | 107.6 | 7.5 | 0.699 |
| 4-1760 | 4-1940 | 0.416 | 235.1 | -26.4 | -2.03 | 1.385 | 81.1 | 0.911 | 10.926 | 18.7 | 112.7 | --- | --- | 10.55 | 0.780 | 142.3 | 108.2 | 8.4 | 0.595 |
| 4-1760 | 4-1960 | 0.385 | 229.0 | -28.0 | -2.77 | 1.342 | 80.3 | 0.798 | 4.780 | 21.9 | 119.8 | --- | --- | 10.63 | 0.698 | 138.9 | 108.6 | 9.5 | 0.512 |
| 4-1760 | 4-1980 | 0.366 | 223.4 | -29.6 | -3.51 | 1.310 | 79.6 | 0.720 | 3.416 | 24.9 | 126.6 | --- | --- | 10.75 | 0.633 | 135.4 | 108.7 | 10.8 | 0.444 |
| 4-1760 | 4-2000 | 0.355 | 218.3 | -31.2 | -4.27 | 1.287 | 79.1 | 0.664 | 2.832 | 27.5 | 133.1 | --- | --- | 10.93 | 0.581 | 131.6 | 108.5 | 12.2 | 0.389 |
| 4-1760 | 4-2020 | 0.349 | 213.9 | -33.0 | -5.05 | 1.270 | 78.7 | 0.624 | 2.517 | 29.7 | 139.1 | --- | --- | 11.17 | 0.539 | 127.8 | 107.8 | 13.9 | 0.345 |
| 4-1760 | 4-2040 | 0.347 | 210.1 | -34.9 | -5.86 | 1.257 | 78.4 | 0.596 | 2.327 | 31.4 | 144.6 | --- | --- | 11.46 | 0.506 | 123.8 | 106.8 | 15.7 | 0.308 |
| 4-1760 | 4-2060 | 0.348 | 206.7 | -37.1 | -6.71 | 1.247 | 78.2 | 0.574 | 2.204 | 32.8 | 149.7 | --- | --- | 11.82 | 0.479 | 119.9 | 105.4 | 17.8 | 0.278 |
| 4-1760 | 4-2080 | 0.350 | 203.6 | -39.4 | -7.62 | 1.240 | 78.1 | 0.559 | 2.121 | 33.7 | 154.3 | --- | --- | 12.26 | 0.458 | 116.0 | 103.5 | 20.0 | 0.255 |
| 4-1760 | 4-2100 | 0.355 | 200.7 | -41.9 | -8.59 | 1.235 | 78.0 | 0.547 | 2.064 | 34.2 | 158.5 | --- | --- | 12.78 | 0.441 | 112.2 | 101.3 | 22.4 | 0.237 |
| 4-1760 | 4-2120 | 0.361 | 197.8 | -44.6 | -9.64 | 1.231 | 78.1 | 0.538 | 2.025 | 34.4 | 162.4 | --- | --- | 13.40 | 0.428 | 108.5 | 98.7 | 24.9 | 0.224 |
| 4-1760 | 4-2140 | 0.370 | 194.7 | -47.6 | -10.80 | 1.228 | 78.2 | 0.532 | 1.998 | 34.3 | 165.9 | --- | --- | 14.15 | 0.419 | 104.9 | 96.0 | 27.3 | 0.215 |
| 4-1760 | 4-2160 | 0.381 | 191.3 | -50.6 | -12.09 | 1.226 | 78.4 | 0.527 | 1.980 | 34.0 | 169.2 | --- | --- | 15.03 | 0.412 | 101.5 | 93.2 | 29.8 | 0.211 |
| 4-1760 | 4-2180 | 0.396 | 187.2 | -53.8 | -13.55 | 1.225 | 78.6 | 0.523 | 1.969 | 33.5 | 172.3 | --- | --- | 16.10 | 0.407 | 98.3 | 90.5 | 32.1 | 0.210 |
| 4-1760 | 4-2200 | 0.415 | 182.1 | -57.0 | -15.24 | 1.225 | 78.9 | 0.520 | 1.963 | 32.8 | 175.1 | --- | --- | 17.40 | 0.404 | 95.2 | 88.0 | 34.3 | 0.213 |
| 4-1760 | 4-2220 | 0.439 | 175.5 | -60.0 | -17.20 | 1.224 | 79.2 | 0.519 | 1.961 | 31.9 | 177.8 | --- | --- | 19.00 | 0.403 | 92.4 | 86.0 | 36.5 | 0.220 |
| 4-1760 | 4-2240 | 0.471 | 167.0 | -62.6 | -19.56 | 1.225 | 79.5 | 0.517 | 1.962 | 31.0 | 180.3 | --- | 2.977 | 20.99 | 0.403 | 89.7 | 84.5 | 38.5 | 0.232 |
| 4-1760 | 4-2260 | 0.513 | 156.2 | -64.4 | -22.44 | 1.225 | 79.9 | 0.517 | 1.966 | 30.0 | 182.7 | --- | 2.981 | 23.51 | 0.404 | 87.1 | 83.7 | 40.5 | 0.248 |
| 4-1760 | 4-2280 | 0.570 | 143.4 | -64.8 | -26.07 | 1.225 | 80.2 | 0.516 | 1.971 | 28.9 | 185.0 | --- | 2.989 | 26.78 | 0.406 | 84.7 | 83.7 | 42.4 | 0.270 |
| 4-1760 | 4-2300 | 0.647 | 130.0 | -63.5 | -30.78 | 1.226 | 80.6 | 0.517 | 1.978 | 27.8 | 187.1 | --- | 3.000 | 31.14 | 0.408 | 82.5 | 84.6 | 44.1 | 0.301 |
| 4-1760 | 4-2320 | 0.753 | 117.9 | -60.0 | -37.10 | 1.227 | 80.9 | 0.517 | 1.987 | 26.9 | 189.2 | --- | 3.014 | 37.12 | 0.412 | 80.4 | 86.6 | 45.3 | 0.344 |
| 4-1760 | 4-2340 | 0.902 | 108.4 | -54.3 | -45.86 | 1.228 | 81.2 | 0.519 | 1.996 | 26.1 | 191.3 | --- | 3.031 | 45.53 | 0.415 | 78.4 | 89.9 | 45.7 | 0.405 |
| 4-1760 | 4-2360 | 1.108 | 101.7 | -46.2 | -58.18 | 1.229 | 81.2 | 0.521 | 2.006 | 25.8 | 193.2 | --- | 3.051 | 57.50 | 0.420 | 76.4 | 94.5 | 44.5 | 0.491 |
| 4-1760 | 4-2380 | 1.372 | 97.5 | -35.7 | -74.93 | 1.230 | 81.1 | 0.524 | 2.017 | 26.2 | 195.2 | --- | 3.074 | 73.91 | 0.424 | 74.5 | 100.0 | 40.6 | 0.603 |
| 4-1760 | 4-2420 | 1.229 | 120.4 | 89.4 | 65.74 | 1.232 | 88.0 | 0.513 | 2.040 | 5.9 | 197.3 | --- | 3.087 | -67.45 | 0.435 | 73.3 | 105.4 | -42.7 | 0.567 |
| 4-1760 | 4-2440 | 0.975 | 264.3 | 79.5 | 50.42 | 1.234 | 88.0 | 0.516 | 2.053 | 5.9 | 199.2 | --- | 3.111 | -52.48 | 0.440 | 71.7 | 103.4 | -45.1 | 0.468 |
| 4-1760 | 4-2460 | 0.785 | 266.0 | 70.2 | 39.37 | 1.235 | 88.3 | 0.519 | 2.065 | 5.0 | 200.9 | --- | 3.136 | -41.78 | 0.446 | 70.3 | 101.4 | -44.8 | 0.397 |
| 4-1760 | 4-2480 | 0.648 | 267.7 | 62.2 | 31.50 | 1.236 | 88.8 | 0.521 | 2.078 | 3.6 | 202.5 | --- | 3.161 | -34.26 | 0.452 | 68.9 | 100.0 | -42.8 | 0.350 |
| 4-1760 | 4-2500 | 0.549 | 269.6 | 55.0 | 25.76 | 1.237 | 89.4 | 0.524 | 2.091 | 1.8 | 204.1 | --- | 3.186 | -28.89 | 0.458 | 67.7 | 99.6 | -39.9 | 0.319 |
| 4-1760 | 4-2520 | 0.477 | 272.0 | 48.3 | 21.43 | 1.238 | 90.0 | 0.527 | 2.104 | 359.9 | 565.6 | 0.996 | 3.212 | -24.93 | 0.464 | 66.6 | 100.0 | -36.8 | 0.299 |
| 4-1760 | 4-2540 | 0.423 | 274.7 | 41.9 | 18.06 | 1.240 | 90.8 | 0.530 | 2.117 | 357.7 | 567.0 | 0.995 | 3.239 | -21.94 | 0.470 | 65.5 | 101.0 | -33.8 | 0.287 |
| 4-1760 | 4-2560 | 0.384 | 277.9 | 35.8 | 15.35 | 1.241 | 91.6 | 0.533 | 2.130 | 355.4 | 568.4 | 0.994 | 3.266 | -19.62 | 0.477 | 64.5 | 102.6 | -31.0 | 0.280 |
| 4-1760 | 4-2580 | 0.355 | 281.4 | 29.8 | 13.11 | 1.242 | 92.4 | 0.537 | 2.144 | 353.0 | 569.7 | 0.993 | 3.294 | -17.78 | 0.483 | 63.5 | 104.5 | -28.4 | 0.277 |
| 4-1760 | 4-2600 | 0.334 | 285.2 | 23.9 | 11.23 | 1.243 | 93.4 | 0.541 | 2.157 | 350.4 | 571.0 | 0.991 | 3.323 | -16.31 | 0.490 | 62.6 | 106.7 | -26.2 | 0.277 |
| 4-1760 | 4-2620 | 0.321 | 289.3 | 18.3 | 9.60 | 1.244 | 94.3 | 0.545 | 2.170 | 347.8 | 572.3 | 0.988 | 3.353 | -15.11 | 0.496 | 61.6 | 109.2 | -24.2 | 0.278 |
| 4-1760 | 4-2640 | 0.313 | 293.6 | 13.1 | 8.17 | 1.245 | 95.3 | 0.550 | 2.184 | 345.0 | 573.5 | 0.984 | 3.384 | -14.13 | 0.503 | 60.8 | 111.9 | -22.4 | 0.281 |
| 4-1760 | 4-2660 | 0.311 | 298.1 | 8.2 | 6.90 | 1.247 | 96.4 | 0.555 | 2.197 | 342.1 | 574.6 | 0.978 | 3.416 | -13.31 | 0.509 | 59.9 | 114.8 | -20.8 | 0.286 |
| 4-1760 | 4-2680 | 0.314 | 302.7 | 3.7 | 5.74 | 1.248 | 97.5 | 0.560 | 2.211 | 339.1 | 575.7 | 0.972 | 3.449 | -12.64 | 0.516 | 59.0 | 117.9 | -19.4 | 0.291 |
| 4-1760 | 4-2700 | 0.321 | 307.4 | -0.2 | 4.68 | 1.249 | 98.7 | 0.566 | 2.224 | 335.9 | 576.7 | 0.964 | 3.484 | -12.09 | 0.522 | 58.2 | 121.1 | -18.2 | 0.298 |
| 4-1760 | 4-2720 | 0.332 | 312.0 | -3.5 | 3.68 | 1.250 | 99.9 | 0.573 | 2.238 | 332.7 | 577.6 | 0.955 | 3.520 | -11.64 | 0.529 | 57.4 | 124.5 | -17.1 | 0.305 |
| 4-1760 | 4-2740 | 0.346 | 316.6 | -6.3 | 2.75 | 1.251 | 101.2 | 0.581 | 2.251 | 329.2 | 578.4 | 0.944 | 3.558 | -11.27 | 0.535 | 56.5 | 128.0 | -16.1 | 0.314 |
| 4-1760 | 4-2760 | 0.363 | 321.1 | -8.7 | 1.85 | 1.252 | 102.6 | 0.589 | 2.265 | 325.7 | 579.2 | 0.931 | 3.598 | -10.99 | 0.542 | 55.6 | 131.7 | -15.3 | 0.323 |
| 4-1770 | 4-1910 | 0.558 | 239.2 | -22.9 | -0.94 | 1.494 | 76.7 | 1.218 | -4.359 | 24.1 | 102.2 | --- | --- | 10.37 | 0.967 | 148.0 | 107.2 | 6.7 | 0.788 |
| 4-1770 | 4-1930 | 0.495 | 233.2 | -23.9 | -1.68 | 1.416 | 76.1 | 1.003 | 71.030 | 27.7 | 109.8 | --- | --- | 10.25 | 0.839 | 145.0 | 107.7 | 7.4 | 0.661 |
| 4-1770 | 4-1950 | 0.455 | 227.5 | -24.9 | -2.39 | 1.362 | 75.5 | 0.861 | 6.702 | 31.3 | 117.3 | --- | --- | 10.17 | 0.741 | 141.7 | 108.0 | 8.3 | 0.563 |
| 4-1770 | 4-1970 | 0.431 | 222.4 | -25.9 | -3.09 | 1.322 | 75.0 | 0.766 | 3.930 | 34.7 | 124.6 | --- | --- | 10.15 | 0.664 | 138.1 | 108.1 | 9.3 | 0.484 |
| 4-1770 | 4-1990 | 0.416 | 218.0 | -27.0 | -3.79 | 1.294 | 74.6 | 0.700 | 3.040 | 37.7 | 131.5 | --- | --- | 10.17 | 0.603 | 134.3 | 107.9 | 10.4 | 0.421 |
| 4-1770 | 4-2010 | 0.407 | 214.3 | -28.2 | -4.48 | 1.273 | 74.3 | 0.654 | 2.614 | 40.2 | 137.8 | --- | --- | 10.24 | 0.554 | 130.4 | 107.3 | 11.7 | 0.369 |
| 4-1770 | 4-2030 | 0.401 | 211.2 | -29.5 | -5.18 | 1.258 | 74.1 | 0.621 | 2.373 | 42.1 | 143.6 | --- | --- | 10.35 | 0.515 | 126.4 | 106.4 | 13.2 | 0.327 |
| 4-1770 | 4-2050 | 0.398 | 208.6 | -31.0 | -5.89 | 1.246 | 74.0 | 0.597 | 2.223 | 43.6 | 148.8 | --- | --- | 10.52 | 0.484 | 122.3 | 105.0 | 14.8 | 0.293 |
| 4-1770 | 4-2070 | 0.397 | 206.4 | -32.6 | -6.63 | 1.238 | 73.9 | 0.580 | 2.125 | 44.6 | 153.5 | --- | --- | 10.73 | 0.460 | 118.3 | 103.3 | 16.5 | 0.265 |
| 4-1770 | 4-2090 | 0.397 | 204.4 | -34.5 | -7.39 | 1.232 | 74.0 | 0.567 | 2.059 | 45.2 | 157.8 | --- | --- | 11.00 | 0.441 | 114.2 | 101.1 | 18.4 | 0.243 |
| 4-1770 | 4-2110 | 0.398 | 202.7 | -36.5 | -8.20 | 1.228 | 74.1 | 0.557 | 2.014 | 45.4 | 161.7 | --- | --- | 11.34 | 0.426 | 110.3 | 98.7 | 20.3 | 0.227 |
| 4-1770 | 4-2130 | 0.400 | 201.0 | -38.8 | -9.05 | 1.224 | 74.3 | 0.550 | 1.984 | 45.3 | 165.3 | --- | --- | 11.74 | 0.415 | 106.6 | 96.0 | 22.2 | 0.214 |
| 4-1770 | 4-2150 | 0.403 | 199.4 | -41.2 | -9.96 | 1.222 | 74.5 | 0.544 | 1.964 | 44.9 | 168.6 | --- | --- | 12.22 | 0.407 | 103.0 | 93.3 | 24.1 | 0.206 |
| 4-1770 | 4-2170 | 0.408 | 197.6 | -43.8 | -10.95 | 1.221 | 74.8 | 0.539 | 1.952 | 44.3 | 171.6 | --- | --- | 12.79 | 0.402 | 99.6 | 90.6 | 25.9 | 0.201 |
| 4-1770 | 4-2190 | 0.414 | 195.5 | -46.6 | -12.03 | 1.220 | 75.1 | 0.536 | 1.945 | 43.5 | 174.4 | --- | --- | 13.48 | 0.399 | 96.4 | 88.1 | 27.7 | 0.199 |
| 4-1770 | 4-2210 | 0.423 | 193.1 | -49.6 | -13.24 | 1.220 | 75.5 | 0.533 | 1.943 | 42.5 | 177.1 | --- | --- | 14.30 | 0.397 | 93.4 | 85.9 | 29.3 | 0.200 |
| 4-1770 | 4-2230 | 0.434 | 190.0 | -52.6 | -14.61 | 1.220 | 75.9 | 0.531 | 1.944 | 41.4 | 179.5 | --- | --- | 15.29 | 0.397 | 90.5 | 84.1 | 31.0 | 0.203 |
| 4-1770 | 4-2250 | 0.450 | 186.0 | -55.7 | -16.17 | 1.221 | 76.3 | 0.529 | 1.948 | 40.2 | 181.9 | --- | 2.979 | 16.48 | 0.398 | 87.9 | 82.8 | 32.6 | 0.210 |
| 4-1770 | 4-2270 | 0.470 | 180.7 | -58.7 | -18.00 | 1.221 | 76.8 | 0.528 | 1.954 | 38.9 | 184.1 | --- | 2.986 | 17.95 | 0.400 | 85.4 | 82.1 | 34.2 | 0.218 |
| 4-1770 | 4-2290 | 0.497 | 173.6 | -61.5 | -20.19 | 1.222 | 77.2 | 0.527 | 1.961 | 37.6 | 186.2 | --- | 2.996 | 19.79 | 0.403 | 83.2 | 81.9 | 36.0 | 0.230 |
| 4-1770 | 4-2310 | 0.534 | 164.2 | -63.6 | -22.86 | 1.223 | 77.7 | 0.527 | 1.970 | 36.1 | 188.2 | --- | 3.009 | 22.11 | 0.406 | 81.0 | 82.4 | 37.8 | 0.246 |
| 4-1770 | 4-2330 | 0.583 | 152.5 | -64.6 | -26.21 | 1.224 | 78.2 | 0.527 | 1.980 | 34.7 | 190.2 | --- | 3.023 | 25.12 | 0.410 | 79.1 | 83.6 | 39.8 | 0.267 |
| 4-1770 | 4-2350 | 0.652 | 139.5 | -63.9 | -30.57 | 1.225 | 78.6 | 0.527 | 1.991 | 33.3 | 192.1 | --- | 3.040 | 29.13 | 0.414 | 77.2 | 85.6 | 41.7 | 0.296 |
| 4-1770 | 4-2370 | 0.747 | 127.1 | -61.1 | -36.41 | 1.226 | 79.1 | 0.528 | 2.003 | 31.9 | 193.9 | --- | 3.059 | 34.64 | 0.419 | 75.4 | 88.7 | 43.5 | 0.335 |
| 4-1770 | 4-2390 | 0.884 | 117.0 | -55.9 | -44.57 | 1.228 | 79.5 | 0.529 | 2.015 | 30.8 | 195.7 | --- | 3.080 | 42.46 | 0.424 | 73.8 | 93.0 | 44.6 | 0.392 |
| 4-1770 | 4-2410 | 1.077 | 109.9 | -48.2 | -56.24 | 1.229 | 79.7 | 0.530 | 2.027 | 30.0 | 197.4 | --- | 3.103 | 53.79 | 0.430 | 72.2 | 98.8 | 44.2 | 0.473 |
| 4-1770 | 4-2430 | 1.337 | 105.7 | -37.7 | -72.66 | 1.230 | 79.7 | 0.533 | 2.040 | 30.0 | 199.2 | --- | 3.129 | 69.88 | 0.436 | 70.5 | 105.5 | 41.3 | 0.585 |
| 4-1770 | 4-2470 | 1.232 | 179.3 | 84.1 | 66.01 | 1.233 | 86.4 | 0.520 | 2.067 | 10.5 | 201.4 | --- | 3.141 | -69.47 | 0.447 | 69.9 | 112.5 | -41.9 | 0.589 |
| 4-1770 | 4-2490 | 0.959 | 246.5 | 77.1 | 49.45 | 1.234 | 86.5 | 0.523 | 2.080 | 10.3 | 203.0 | --- | 3.168 | -53.24 | 0.454 | 68.5 | 109.9 | -44.5 | 0.483 |
| 4-1770 | 4-2510 | 0.756 | 259.0 | 67.5 | 37.65 | 1.235 | 86.8 | 0.525 | 2.094 | 9.3 | 204.6 | --- | 3.194 | -41.79 | 0.460 | 67.3 | 107.3 | -44.0 | 0.407 |
| 4-1770 | 4-2530 | 0.612 | 264.4 | 59.0 | 29.40 | 1.237 | 87.3 | 0.528 | 2.108 | 7.7 | 206.1 | --- | 3.220 | -33.90 | 0.466 | 66.2 | 105.9 | -41.6 | 0.358 |
| 4-1770 | 4-2550 | 0.511 | 268.4 | 51.2 | 23.49 | 1.238 | 88.0 | 0.530 | 2.122 | 5.8 | 207.6 | --- | 3.247 | -28.34 | 0.473 | 65.1 | 105.6 | -38.5 | 0.327 |
| 4-1770 | 4-2570 | 0.439 | 272.1 | 43.9 | 19.09 | 1.239 | 88.7 | 0.533 | 2.136 | 3.6 | 209.0 | --- | 3.273 | -24.30 | 0.479 | 64.2 | 106.2 | -35.2 | 0.308 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1770 | 4-2590 | 0.387 | 276.0 | 36.9 | 15.70 | 1.240 | 89.6 | 0.536 | 2.150 | 1.3 | 210.3 | --- | 3.301 | -21.28 | 0.486 | 63.3 | 107.5 | -32.1 | 0.296 |
| 4-1770 | 4-2610 | 0.349 | 280.1 | 30.1 | 12.99 | 1.241 | 90.4 | 0.539 | 2.163 | 358.8 | 571.6 | 0.998 | 3.329 | -18.96 | 0.493 | 62.5 | 109.4 | -29.3 | 0.290 |
| 4-1770 | 4-2630 | 0.322 | 284.5 | 23.6 | 10.77 | 1.243 | 91.3 | 0.542 | 2.177 | 356.2 | 572.9 | 0.998 | 3.357 | -17.14 | 0.499 | 61.6 | 111.6 | -26.8 | 0.287 |
| 4-1770 | 4-2650 | 0.304 | 289.3 | 17.4 | 8.91 | 1.244 | 92.3 | 0.545 | 2.191 | 353.4 | 574.1 | 0.996 | 3.386 | -15.68 | 0.506 | 60.8 | 114.2 | -24.6 | 0.287 |
| 4-1770 | 4-2670 | 0.294 | 294.4 | 11.5 | 7.31 | 1.245 | 93.3 | 0.549 | 2.205 | 350.6 | 575.3 | 0.994 | 3.417 | -14.50 | 0.513 | 60.1 | 116.9 | -22.6 | 0.289 |
| 4-1770 | 4-2690 | 0.290 | 299.6 | 6.1 | 5.90 | 1.246 | 94.4 | 0.554 | 2.219 | 347.6 | 576.4 | 0.990 | 3.448 | -13.54 | 0.519 | 59.3 | 119.9 | -20.9 | 0.293 |
| 4-1770 | 4-2710 | 0.291 | 305.1 | 1.3 | 4.65 | 1.247 | 95.5 | 0.559 | 2.233 | 344.5 | 577.4 | 0.985 | 3.480 | -12.75 | 0.526 | 58.6 | 123.1 | -19.4 | 0.298 |
| 4-1770 | 4-2730 | 0.297 | 310.6 | -2.8 | 3.52 | 1.248 | 96.7 | 0.564 | 2.247 | 341.3 | 578.4 | 0.979 | 3.514 | -12.10 | 0.533 | 57.9 | 126.4 | -18.1 | 0.303 |
| 4-1770 | 4-2750 | 0.307 | 316.0 | -6.3 | 2.48 | 1.249 | 98.0 | 0.570 | 2.261 | 337.9 | 579.3 | 0.972 | 3.549 | -11.57 | 0.539 | 57.1 | 129.9 | -17.0 | 0.310 |
| 4-1770 | 4-2770 | 0.321 | 321.4 | -9.0 | 1.51 | 1.250 | 99.3 | 0.577 | 2.274 | 334.4 | 580.2 | 0.963 | 3.586 | -11.14 | 0.545 | 56.4 | 133.5 | -16.0 | 0.318 |
| 4-1780 | 4-1920 | 0.606 | 232.5 | -22.2 | -1.38 | 1.458 | 70.3 | 1.116 | -7.728 | 37.3 | 107.5 | --- | --- | 10.06 | 0.913 | 148.0 | 106.9 | 6.5 | 0.745 |
| 4-1780 | 4-1940 | 0.551 | 227.2 | -22.8 | -2.11 | 1.387 | 70.0 | 0.936 | 13.796 | 41.4 | 115.5 | --- | --- | 9.84 | 0.792 | 144.8 | 107.1 | 7.2 | 0.626 |
| 4-1780 | 4-1960 | 0.517 | 222.6 | -23.5 | -2.80 | 1.338 | 69.8 | 0.820 | 4.814 | 45.2 | 123.3 | --- | --- | 9.67 | 0.699 | 141.2 | 107.1 | 7.9 | 0.533 |
| 4-1780 | 4-1980 | 0.496 | 218.8 | -24.2 | -3.47 | 1.303 | 69.5 | 0.742 | 3.323 | 48.5 | 130.5 | --- | --- | 9.56 | 0.627 | 137.4 | 106.8 | 8.8 | 0.459 |
| 4-1780 | 4-2000 | 0.482 | 215.6 | -25.0 | -4.12 | 1.277 | 69.4 | 0.689 | 2.728 | 51.3 | 137.2 | --- | --- | 9.49 | 0.569 | 133.4 | 106.2 | 9.8 | 0.399 |
| 4-1780 | 4-2020 | 0.472 | 213.0 | -26.0 | -4.76 | 1.259 | 69.3 | 0.652 | 2.419 | 53.5 | 143.1 | --- | --- | 9.46 | 0.524 | 129.3 | 105.3 | 10.9 | 0.351 |
| 4-1780 | 4-2040 | 0.466 | 211.0 | -27.1 | -5.40 | 1.245 | 69.3 | 0.626 | 2.237 | 55.0 | 148.5 | --- | --- | 9.48 | 0.488 | 125.0 | 104.0 | 12.2 | 0.312 |
| 4-1780 | 4-2060 | 0.461 | 209.3 | -28.3 | -6.03 | 1.235 | 69.4 | 0.607 | 2.122 | 56.1 | 153.3 | --- | --- | 9.54 | 0.460 | 120.8 | 102.2 | 13.5 | 0.280 |
| 4-1780 | 4-2080 | 0.457 | 208.0 | -29.7 | -6.67 | 1.228 | 69.5 | 0.593 | 2.046 | 56.6 | 157.6 | --- | --- | 9.64 | 0.438 | 116.5 | 100.2 | 14.9 | 0.255 |
| 4-1780 | 4-2100 | 0.455 | 206.9 | -31.2 | -7.33 | 1.223 | 69.7 | 0.582 | 1.996 | 56.8 | 161.5 | --- | --- | 9.79 | 0.422 | 112.4 | 97.8 | 16.4 | 0.235 |
| 4-1780 | 4-2120 | 0.452 | 205.9 | -32.9 | -8.00 | 1.220 | 70.0 | 0.573 | 1.962 | 56.6 | 165.1 | --- | --- | 9.98 | 0.409 | 108.3 | 95.2 | 17.8 | 0.220 |
| 4-1780 | 4-2140 | 0.451 | 205.0 | -34.8 | -8.70 | 1.217 | 70.3 | 0.567 | 1.940 | 56.2 | 168.3 | --- | --- | 10.22 | 0.401 | 104.5 | 92.6 | 19.2 | 0.209 |
| 4-1780 | 4-2160 | 0.450 | 204.2 | -36.8 | -9.43 | 1.216 | 70.7 | 0.561 | 1.927 | 55.5 | 171.3 | --- | --- | 10.52 | 0.395 | 100.8 | 89.9 | 20.6 | 0.201 |
| 4-1780 | 4-2180 | 0.449 | 203.4 | -38.9 | -10.21 | 1.215 | 71.1 | 0.557 | 1.920 | 54.6 | 174.0 | --- | --- | 10.88 | 0.391 | 97.4 | 87.4 | 21.9 | 0.196 |
| 4-1780 | 4-2200 | 0.450 | 202.5 | -41.2 | -11.04 | 1.215 | 71.5 | 0.553 | 1.918 | 53.5 | 176.6 | --- | --- | 11.31 | 0.389 | 94.2 | 85.2 | 23.1 | 0.194 |
| 4-1780 | 4-2220 | 0.452 | 201.4 | -43.7 | -11.95 | 1.215 | 72.0 | 0.550 | 1.920 | 52.3 | 179.0 | --- | --- | 11.83 | 0.389 | 91.2 | 83.3 | 24.2 | 0.194 |
| 4-1780 | 4-2240 | 0.455 | 200.0 | -46.4 | -12.94 | 1.216 | 72.4 | 0.548 | 1.924 | 51.0 | 181.3 | --- | 2.978 | 12.45 | 0.390 | 88.5 | 81.9 | 25.4 | 0.196 |
| 4-1780 | 4-2260 | 0.460 | 198.3 | -49.2 | -14.04 | 1.216 | 73.0 | 0.546 | 1.931 | 49.5 | 183.4 | --- | 2.984 | 13.19 | 0.392 | 85.9 | 80.9 | 26.5 | 0.200 |
| 4-1780 | 4-2280 | 0.468 | 196.0 | -52.2 | -15.29 | 1.217 | 73.5 | 0.544 | 1.939 | 48.0 | 185.5 | --- | 2.993 | 14.08 | 0.395 | 83.5 | 80.4 | 27.8 | 0.205 |
| 4-1780 | 4-2300 | 0.480 | 192.9 | -55.2 | -16.71 | 1.218 | 74.0 | 0.542 | 1.949 | 46.4 | 187.4 | --- | 3.005 | 15.16 | 0.399 | 81.4 | 80.3 | 29.1 | 0.212 |
| 4-1780 | 4-2320 | 0.495 | 188.7 | -58.2 | -18.38 | 1.220 | 74.6 | 0.541 | 1.959 | 44.7 | 189.3 | --- | 3.019 | 16.49 | 0.403 | 79.3 | 80.7 | 30.6 | 0.221 |
| 4-1780 | 4-2340 | 0.517 | 182.7 | -61.1 | -20.37 | 1.221 | 75.2 | 0.540 | 1.971 | 43.0 | 191.2 | --- | 3.036 | 18.15 | 0.408 | 77.5 | 81.6 | 32.3 | 0.232 |
| 4-1780 | 4-2360 | 0.548 | 174.6 | -63.6 | -22.80 | 1.222 | 75.8 | 0.539 | 1.984 | 41.3 | 192.9 | --- | 3.053 | 20.25 | 0.413 | 75.7 | 83.0 | 34.2 | 0.246 |
| 4-1780 | 4-2380 | 0.590 | 163.7 | -65.2 | -25.87 | 1.223 | 76.4 | 0.539 | 1.997 | 39.5 | 194.7 | --- | 3.072 | 22.99 | 0.418 | 74.1 | 85.1 | 36.3 | 0.265 |
| 4-1780 | 4-2400 | 0.649 | 150.6 | -65.2 | -29.86 | 1.225 | 77.0 | 0.539 | 2.010 | 37.8 | 196.3 | --- | 3.092 | 26.66 | 0.424 | 72.6 | 87.8 | 38.7 | 0.291 |
| 4-1780 | 4-2420 | 0.735 | 137.3 | -63.2 | -35.26 | 1.226 | 77.5 | 0.539 | 2.024 | 36.2 | 198.0 | --- | 3.114 | 31.75 | 0.430 | 71.2 | 91.5 | 41.0 | 0.326 |
| 4-1780 | 4-2440 | 0.860 | 125.9 | -58.5 | -42.90 | 1.228 | 78.0 | 0.539 | 2.038 | 34.7 | 199.6 | --- | 3.137 | 39.07 | 0.436 | 69.8 | 96.5 | 43.0 | 0.378 |
| 4-1780 | 4-2460 | 1.044 | 118.0 | -50.9 | -54.12 | 1.229 | 78.4 | 0.541 | 2.052 | 33.6 | 201.2 | --- | 3.161 | 49.97 | 0.442 | 68.5 | 103.2 | 43.6 | 0.456 |
| 4-1780 | 4-2480 | 1.306 | 113.5 | -40.2 | -70.63 | 1.230 | 78.5 | 0.543 | 2.066 | 33.1 | 202.8 | --- | 3.189 | 66.16 | 0.449 | 67.2 | 111.3 | 41.6 | 0.570 |
| 4-1780 | 4-2520 | 1.211 | 192.8 | 78.7 | 64.71 | 1.233 | 84.8 | 0.528 | 2.095 | 15.0 | 205.1 | --- | 3.201 | -69.82 | 0.462 | 66.8 | 119.7 | -41.5 | 0.602 |
| 4-1780 | 4-2540 | 0.914 | 241.2 | 72.2 | 46.78 | 1.234 | 84.9 | 0.531 | 2.110 | 14.6 | 206.6 | --- | 3.230 | -52.21 | 0.468 | 65.7 | 116.1 | -43.9 | 0.486 |
| 4-1780 | 4-2560 | 0.702 | 256.8 | 62.5 | 34.44 | 1.236 | 85.4 | 0.533 | 2.125 | 13.3 | 208.1 | --- | 3.257 | -40.20 | 0.475 | 64.6 | 113.1 | -42.8 | 0.408 |
| 4-1780 | 4-2580 | 0.558 | 264.2 | 53.4 | 26.09 | 1.237 | 86.0 | 0.535 | 2.139 | 11.5 | 209.5 | --- | 3.284 | -32.18 | 0.482 | 63.7 | 111.7 | -39.9 | 0.359 |
| 4-1780 | 4-2600 | 0.460 | 269.4 | 44.9 | 20.23 | 1.238 | 86.7 | 0.537 | 2.154 | 9.4 | 210.8 | --- | 3.311 | -26.67 | 0.489 | 62.9 | 111.7 | -36.3 | 0.330 |
| 4-1780 | 4-2620 | 0.392 | 274.2 | 36.8 | 15.95 | 1.240 | 87.6 | 0.539 | 2.168 | 7.0 | 212.2 | --- | 3.338 | -22.73 | 0.496 | 62.1 | 112.7 | -32.8 | 0.312 |
| 4-1780 | 4-2640 | 0.345 | 279.0 | 29.0 | 12.68 | 1.241 | 88.4 | 0.542 | 2.183 | 4.4 | 213.4 | --- | 3.365 | -19.82 | 0.502 | 61.4 | 114.4 | -29.6 | 0.302 |
| 4-1780 | 4-2660 | 0.312 | 284.0 | 21.6 | 10.09 | 1.242 | 89.4 | 0.544 | 2.197 | 1.7 | 214.7 | --- | 3.393 | -17.60 | 0.509 | 60.7 | 116.6 | -26.8 | 0.297 |
| 4-1780 | 4-2680 | 0.291 | 289.4 | 14.6 | 7.98 | 1.243 | 90.4 | 0.547 | 2.212 | 358.9 | 575.9 | 1.001 | 3.422 | -15.87 | 0.516 | 60.0 | 119.1 | -24.4 | 0.296 |
| 4-1780 | 4-2700 | 0.278 | 295.2 | 8.1 | 6.22 | 1.244 | 91.4 | 0.551 | 2.226 | 356.0 | 577.0 | 1.000 | 3.452 | -14.50 | 0.523 | 59.4 | 122.0 | -22.3 | 0.297 |
| 4-1780 | 4-2720 | 0.272 | 301.2 | 2.2 | 4.70 | 1.246 | 92.5 | 0.554 | 2.240 | 352.9 | 578.1 | 0.999 | 3.482 | -13.39 | 0.529 | 58.8 | 125.1 | -20.5 | 0.300 |
| 4-1780 | 4-2740 | 0.272 | 307.5 | -2.8 | 3.38 | 1.247 | 93.7 | 0.558 | 2.255 | 349.7 | 579.1 | 0.995 | 3.514 | -12.50 | 0.536 | 58.1 | 128.3 | -18.9 | 0.304 |
| 4-1780 | 4-2760 | 0.277 | 313.8 | -7.0 | 2.21 | 1.248 | 94.9 | 0.563 | 2.269 | 346.4 | 580.1 | 0.991 | 3.547 | -11.76 | 0.542 | 57.5 | 131.7 | -17.6 | 0.309 |
| 4-1780 | 4-2780 | 0.287 | 320.1 | -10.3 | 1.14 | 1.249 | 96.2 | 0.568 | 2.283 | 342.9 | 581.0 | 0.985 | 3.581 | -11.17 | 0.549 | 56.8 | 135.3 | -16.4 | 0.316 |
| 4-1790 | 4-1950 | 0.629 | 223.9 | -22.0 | -2.60 | 1.359 | 63.7 | 0.884 | 6.834 | 56.4 | 122.7 | --- | --- | 9.29 | 0.743 | 144.9 | 105.7 | 6.7 | 0.594 |
| 4-1790 | 4-1970 | 0.597 | 220.4 | -22.5 | -3.29 | 1.314 | 63.8 | 0.792 | 3.763 | 60.1 | 130.4 | --- | --- | 9.04 | 0.655 | 141.1 | 105.4 | 7.3 | 0.507 |
| 4-1790 | 4-1990 | 0.575 | 217.7 | -23.2 | -3.93 | 1.282 | 63.9 | 0.732 | 2.877 | 63.1 | 137.3 | --- | --- | 8.84 | 0.587 | 137.0 | 104.7 | 8.1 | 0.437 |
| 4-1790 | 4-2010 | 0.560 | 215.6 | -23.9 | -4.54 | 1.260 | 64.0 | 0.691 | 2.471 | 65.4 | 143.4 | --- | --- | 8.70 | 0.533 | 132.7 | 103.7 | 8.9 | 0.381 |
| 4-1790 | 4-2030 | 0.548 | 213.9 | -24.8 | -5.13 | 1.244 | 64.2 | 0.662 | 2.248 | 67.0 | 148.8 | --- | --- | 8.59 | 0.492 | 128.3 | 102.4 | 9.9 | 0.337 |
| 4-1790 | 4-2050 | 0.539 | 212.7 | -25.7 | -5.70 | 1.232 | 64.4 | 0.641 | 2.112 | 68.0 | 153.6 | --- | --- | 8.53 | 0.459 | 123.7 | 100.7 | 10.9 | 0.301 |
| 4-1790 | 4-2070 | 0.532 | 211.7 | -26.8 | -6.27 | 1.224 | 64.7 | 0.625 | 2.025 | 68.5 | 157.9 | --- | --- | 8.51 | 0.434 | 119.2 | 98.6 | 11.9 | 0.272 |
| 4-1790 | 4-2090 | 0.526 | 211.0 | -28.0 | -6.83 | 1.218 | 65.0 | 0.613 | 1.969 | 68.6 | 161.7 | --- | --- | 8.52 | 0.415 | 114.7 | 96.3 | 13.0 | 0.249 |
| 4-1790 | 4-2110 | 0.520 | 210.4 | -29.3 | -7.39 | 1.214 | 65.4 | 0.604 | 1.932 | 68.3 | 165.2 | --- | --- | 8.57 | 0.401 | 110.3 | 93.8 | 14.0 | 0.231 |
| 4-1790 | 4-2130 | 0.514 | 210.0 | -30.7 | -7.96 | 1.212 | 65.8 | 0.596 | 1.909 | 67.7 | 168.3 | --- | --- | 8.65 | 0.391 | 106.2 | 91.2 | 15.0 | 0.218 |
| 4-1790 | 4-2150 | 0.509 | 209.7 | -32.2 | -8.54 | 1.210 | 66.2 | 0.590 | 1.895 | 66.9 | 171.2 | --- | --- | 8.78 | 0.384 | 102.2 | 88.6 | 16.0 | 0.208 |
| 4-1790 | 4-2170 | 0.505 | 209.4 | -33.9 | -9.14 | 1.209 | 66.7 | 0.584 | 1.888 | 65.9 | 173.8 | --- | --- | 8.94 | 0.380 | 98.5 | 86.2 | 16.9 | 0.201 |
| 4-1790 | 4-2190 | 0.501 | 209.2 | -35.7 | -9.76 | 1.209 | 67.2 | 0.580 | 1.886 | 64.7 | 176.3 | --- | --- | 9.15 | 0.378 | 95.0 | 84.0 | 17.7 | 0.197 |
| 4-1790 | 4-2210 | 0.497 | 208.9 | -37.6 | -10.41 | 1.209 | 67.7 | 0.576 | 1.889 | 63.4 | 178.6 | --- | --- | 9.41 | 0.378 | 91.8 | 82.2 | 18.5 | 0.195 |
| 4-1790 | 4-2230 | 0.494 | 208.6 | -39.6 | -11.10 | 1.210 | 68.3 | 0.572 | 1.894 | 61.9 | 180.8 | --- | 2.977 | 9.73 | 0.379 | 88.9 | 80.7 | 19.2 | 0.195 |
| 4-1790 | 4-2250 | 0.492 | 208.2 | -41.8 | -11.83 | 1.211 | 68.9 | 0.569 | 1.901 | 60.4 | 182.9 | --- | 2.982 | 10.10 | 0.382 | 86.2 | 79.7 | 19.9 | 0.196 |
| 4-1790 | 4-2270 | 0.491 | 207.7 | -44.1 | -12.63 | 1.212 | 69.5 | 0.566 | 1.911 | 58.7 | 184.9 | --- | 2.992 | 10.55 | 0.385 | 83.7 | 79.0 | 20.7 | 0.198 |
| 4-1790 | 4-2290 | 0.491 | 206.9 | -46.6 | -13.51 | 1.213 | 70.1 | 0.563 | 1.921 | 57.0 | 186.8 | --- | 3.003 | 11.10 | 0.389 | 81.4 | 78.8 | 21.5 | 0.202 |
| 4-1790 | 4-2310 | 0.493 | 205.9 | -49.3 | -14.49 | 1.214 | 70.8 | 0.561 | 1.933 | 55.2 | 188.6 | --- | 3.017 | 11.74 | 0.394 | 79.3 | 79.0 | 22.5 | 0.206 |
| 4-1790 | 4-2330 | 0.497 | 204.3 | -52.1 | -15.59 | 1.216 | 71.4 | 0.559 | 1.946 | 53.4 | 190.4 | --- | 3.033 | 12.53 | 0.399 | 77.4 | 79.5 | 23.5 | 0.212 |
| 4-1790 | 4-2350 | 0.504 | 202.1 | -55.1 | -16.86 | 1.217 | 72.1 | 0.557 | 1.959 | 51.5 | 192.1 | --- | 3.050 | 13.48 | 0.405 | 75.6 | 80.4 | 24.7 | 0.218 |
| 4-1790 | 4-2370 | 0.515 | 198.9 | -58.1 | -18.35 | 1.219 | 72.8 | 0.555 | 1.974 | 49.5 | 193.8 | --- | 3.069 | 14.66 | 0.410 | 74.0 | 81.7 | 26.2 | 0.226 |
| 4-1790 | 4-2390 | 0.531 | 194.2 | -61.2 | -20.12 | 1.220 | 73.4 | 0.553 | 1.988 | 47.6 | 195.4 | --- | 3.088 | 16.13 | 0.416 | 72.5 | 83.3 | 27.9 | 0.236 |
| 4-1790 | 4-2410 | 0.555 | 187.3 | -64.0 | -22.30 | 1.222 | 74.1 | 0.552 | 2.003 | 45.6 | 197.0 | --- | 3.109 | 18.01 | 0.423 | 71.1 | 85.3 | 29.8 | 0.249 |
| 4-1790 | 4-2430 | 0.590 | 177.3 | -66.3 | -25.05 | 1.223 | 74.8 | 0.551 | 2.018 | 43.6 | 198.6 | --- | 3.130 | 20.47 | 0.429 | 69.8 | 87.9 | 32.2 | 0.265 |
| 4-1790 | 4-2450 | 0.640 | 164.1 | -67.2 | -28.66 | 1.225 | 75.5 | 0.550 | 2.033 | 41.6 | 200.1 | --- | 3.152 | 23.79 | 0.436 | 68.6 | 91.0 | 34.9 | 0.286 |
| 4-1790 | 4-2470 | 0.715 | 149.0 | -66.1 | -33.62 | 1.226 | 76.1 | 0.550 | 2.048 | 39.7 | 201.6 | --- | 3.175 | 28.46 | 0.443 | 67.5 | 95.1 | 37.8 | 0.318 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1790 | 4-2490 | 0.830 | 135.4 | -62.0 | -40.79 | 1.228 | 76.7 | 0.550 | 2.064 | 37.9 | 203.1 | --- | 3.199 | 35.33 | 0.449 | 66.4 | 100.5 | 40.7 | 0.365 |
| 4-1790 | 4-2510 | 1.007 | 125.9 | -54.5 | -51.72 | 1.229 | 77.2 | 0.551 | 2.079 | 36.4 | 204.6 | --- | 3.224 | 45.97 | 0.456 | 65.4 | 107.9 | 42.6 | 0.440 |
| 4-1790 | 4-2530 | 1.278 | 121.0 | -43.2 | -68.81 | 1.231 | 77.5 | 0.552 | 2.095 | 35.6 | 206.0 | --- | 3.252 | 62.77 | 0.463 | 64.3 | 117.4 | 41.7 | 0.558 |
| 4-1790 | 4-2570 | 1.156 | 206.4 | 73.2 | 61.26 | 1.233 | 83.3 | 0.537 | 2.126 | 19.3 | 208.5 | --- | 3.267 | -67.88 | 0.477 | 64.1 | 126.6 | -41.5 | 0.601 |
| 4-1790 | 4-2590 | 0.835 | 244.4 | 65.7 | 42.01 | 1.235 | 83.5 | 0.540 | 2.141 | 18.6 | 209.9 | --- | 3.296 | -48.93 | 0.484 | 63.2 | 121.8 | -43.2 | 0.476 |
| 4-1790 | 4-2610 | 0.622 | 259.3 | 55.2 | 29.58 | 1.236 | 84.1 | 0.541 | 2.156 | 17.0 | 211.3 | --- | 3.324 | -36.80 | 0.491 | 62.4 | 118.5 | -40.9 | 0.398 |
| 4-1790 | 4-2630 | 0.486 | 267.2 | 45.0 | 21.53 | 1.238 | 84.8 | 0.543 | 2.171 | 14.9 | 212.6 | --- | 3.351 | -29.06 | 0.498 | 61.7 | 117.4 | -37.1 | 0.353 |
| 4-1790 | 4-2650 | 0.399 | 273.1 | 35.4 | 16.04 | 1.239 | 85.6 | 0.545 | 2.187 | 12.5 | 213.9 | --- | 3.378 | -23.88 | 0.505 | 61.0 | 117.9 | -33.1 | 0.327 |
| 4-1790 | 4-2670 | 0.342 | 278.6 | 26.2 | 12.08 | 1.240 | 86.5 | 0.546 | 2.202 | 9.8 | 215.1 | --- | 3.405 | -20.25 | 0.512 | 60.4 | 119.4 | -29.4 | 0.313 |
| 4-1790 | 4-2690 | 0.304 | 284.2 | 17.7 | 9.10 | 1.241 | 87.5 | 0.548 | 2.217 | 7.1 | 216.4 | --- | 3.432 | -17.60 | 0.519 | 59.8 | 121.5 | -26.3 | 0.306 |
| 4-1790 | 4-2710 | 0.279 | 290.1 | 9.7 | 6.76 | 1.243 | 88.5 | 0.551 | 2.232 | 4.2 | 217.5 | --- | 3.460 | -15.59 | 0.526 | 59.2 | 124.1 | -23.6 | 0.303 |
| 4-1790 | 4-2730 | 0.265 | 296.4 | 2.6 | 4.85 | 1.244 | 89.6 | 0.553 | 2.247 | 1.1 | 218.7 | --- | 3.489 | -14.04 | 0.532 | 58.7 | 127.1 | -21.3 | 0.303 |
| 4-1790 | 4-2750 | 0.259 | 303.2 | -3.6 | 3.27 | 1.245 | 90.7 | 0.556 | 2.261 | 357.9 | 579.7 | 1.004 | 3.519 | -12.82 | 0.539 | 58.2 | 130.2 | -19.4 | 0.306 |
| 4-1790 | 4-2770 | 0.259 | 310.2 | -8.8 | 1.91 | 1.246 | 91.9 | 0.560 | 2.276 | 354.6 | 580.8 | 1.003 | 3.550 | -11.84 | 0.546 | 57.6 | 133.6 | -17.8 | 0.309 |
| 4-1790 | 4-2790 | 0.264 | 317.4 | -12.8 | 0.72 | 1.247 | 93.2 | 0.564 | 2.291 | 351.2 | 581.7 | 1.000 | 3.582 | -11.05 | 0.552 | 57.1 | 137.1 | -16.4 | 0.315 |
| 4-1800 | 4-1960 | 0.720 | 222.8 | -21.6 | -3.21 | 1.330 | 57.1 | 0.852 | 4.612 | 72.5 | 131.0 | --- | --- | 8.57 | 0.693 | 145.6 | 103.5 | 5.9 | 0.569 |
| 4-1800 | 4-1980 | 0.687 | 220.4 | -22.2 | -3.88 | 1.290 | 57.6 | 0.783 | 3.106 | 75.7 | 138.1 | --- | --- | 8.25 | 0.610 | 141.4 | 102.8 | 6.4 | 0.486 |
| 4-1800 | 4-2000 | 0.664 | 218.6 | -22.8 | -4.49 | 1.262 | 58.0 | 0.737 | 2.543 | 78.0 | 144.3 | --- | --- | 7.98 | 0.545 | 137.0 | 101.8 | 7.1 | 0.421 |
| 4-1800 | 4-2020 | 0.646 | 217.3 | -23.5 | -5.06 | 1.243 | 58.4 | 0.705 | 2.261 | 79.6 | 149.8 | --- | --- | 7.77 | 0.496 | 132.3 | 100.4 | 7.7 | 0.369 |
| 4-1800 | 4-2040 | 0.631 | 216.3 | -24.3 | -5.60 | 1.229 | 58.8 | 0.683 | 2.099 | 80.5 | 154.5 | --- | --- | 7.60 | 0.457 | 127.5 | 98.7 | 8.4 | 0.328 |
| 4-1800 | 4-2060 | 0.619 | 215.6 | -25.2 | -6.12 | 1.219 | 59.3 | 0.665 | 1.999 | 80.8 | 158.6 | --- | --- | 7.48 | 0.427 | 122.5 | 96.6 | 9.2 | 0.295 |
| 4-1800 | 4-2080 | 0.609 | 215.2 | -26.1 | -6.62 | 1.212 | 59.8 | 0.652 | 1.936 | 80.7 | 162.3 | --- | --- | 7.39 | 0.405 | 117.6 | 94.4 | 9.9 | 0.269 |
| 4-1800 | 4-2100 | 0.599 | 214.9 | -27.2 | -7.11 | 1.208 | 60.3 | 0.641 | 1.895 | 80.3 | 165.6 | --- | --- | 7.33 | 0.389 | 112.8 | 91.9 | 10.6 | 0.248 |
| 4-1800 | 4-2120 | 0.591 | 214.8 | -28.3 | -7.59 | 1.205 | 60.8 | 0.632 | 1.870 | 79.5 | 168.6 | --- | --- | 7.31 | 0.378 | 108.2 | 89.4 | 11.3 | 0.233 |
| 4-1800 | 4-2140 | 0.582 | 214.8 | -29.5 | -8.06 | 1.203 | 61.4 | 0.625 | 1.856 | 78.6 | 171.3 | --- | --- | 7.32 | 0.370 | 103.8 | 86.9 | 12.0 | 0.221 |
| 4-1800 | 4-2160 | 0.574 | 214.9 | -30.8 | -8.54 | 1.202 | 62.0 | 0.618 | 1.849 | 77.4 | 173.9 | --- | --- | 7.36 | 0.366 | 99.7 | 84.6 | 12.5 | 0.212 |
| 4-1800 | 4-2180 | 0.567 | 215.0 | -32.2 | -9.02 | 1.202 | 62.6 | 0.612 | 1.848 | 76.1 | 176.2 | --- | --- | 7.42 | 0.364 | 95.9 | 82.5 | 13.1 | 0.207 |
| 4-1800 | 4-2200 | 0.559 | 215.1 | -33.6 | -9.52 | 1.203 | 63.3 | 0.607 | 1.851 | 74.6 | 178.4 | --- | --- | 7.53 | 0.364 | 92.4 | 80.8 | 13.6 | 0.203 |
| 4-1800 | 4-2220 | 0.552 | 215.3 | -35.2 | -10.02 | 1.203 | 63.9 | 0.602 | 1.857 | 73.0 | 180.5 | --- | 2.976 | 7.66 | 0.366 | 89.2 | 79.4 | 14.0 | 0.201 |
| 4-1800 | 4-2240 | 0.545 | 215.5 | -36.8 | -10.55 | 1.204 | 64.6 | 0.598 | 1.866 | 71.3 | 182.5 | --- | 2.981 | 7.84 | 0.369 | 86.3 | 78.3 | 14.5 | 0.201 |
| 4-1800 | 4-2260 | 0.539 | 215.7 | -38.6 | -11.10 | 1.206 | 65.3 | 0.594 | 1.876 | 69.6 | 184.4 | --- | 2.990 | 8.05 | 0.373 | 83.7 | 77.7 | 14.9 | 0.202 |
| 4-1800 | 4-2280 | 0.534 | 215.8 | -40.5 | -11.69 | 1.207 | 65.9 | 0.590 | 1.888 | 67.8 | 186.2 | --- | 3.002 | 8.32 | 0.377 | 81.2 | 77.4 | 15.4 | 0.203 |
| 4-1800 | 4-2300 | 0.529 | 215.8 | -42.5 | -12.32 | 1.209 | 66.7 | 0.586 | 1.902 | 65.9 | 188.0 | --- | 3.016 | 8.64 | 0.382 | 79.0 | 77.5 | 15.9 | 0.206 |
| 4-1800 | 4-2320 | 0.525 | 215.8 | -44.7 | -13.01 | 1.210 | 67.4 | 0.583 | 1.916 | 63.9 | 189.7 | --- | 3.032 | 9.02 | 0.388 | 77.0 | 78.0 | 16.5 | 0.209 |
| 4-1800 | 4-2340 | 0.522 | 215.6 | -47.0 | -13.76 | 1.212 | 68.1 | 0.580 | 1.930 | 61.9 | 191.3 | --- | 3.049 | 9.48 | 0.394 | 75.2 | 78.7 | 17.2 | 0.213 |
| 4-1800 | 4-2360 | 0.520 | 215.1 | -49.5 | -14.59 | 1.214 | 68.8 | 0.577 | 1.946 | 59.9 | 192.9 | --- | 3.068 | 10.03 | 0.401 | 73.6 | 79.8 | 18.0 | 0.217 |
| 4-1800 | 4-2380 | 0.520 | 214.4 | -52.1 | -15.54 | 1.215 | 69.6 | 0.574 | 1.961 | 57.8 | 194.5 | --- | 3.087 | 10.69 | 0.407 | 72.0 | 81.1 | 18.9 | 0.222 |
| 4-1800 | 4-2400 | 0.523 | 213.1 | -55.0 | -16.63 | 1.217 | 70.4 | 0.572 | 1.977 | 55.7 | 196.1 | --- | 3.107 | 11.51 | 0.414 | 70.7 | 82.7 | 20.0 | 0.228 |
| 4-1800 | 4-2420 | 0.529 | 211.0 | -58.0 | -17.90 | 1.219 | 71.1 | 0.569 | 1.993 | 53.5 | 197.6 | --- | 3.128 | 12.52 | 0.421 | 69.4 | 84.5 | 21.4 | 0.234 |
| 4-1800 | 4-2440 | 0.540 | 207.7 | -61.2 | -19.44 | 1.220 | 71.9 | 0.567 | 2.010 | 51.3 | 199.1 | --- | 3.149 | 13.79 | 0.428 | 68.2 | 86.6 | 23.0 | 0.242 |
| 4-1800 | 4-2460 | 0.557 | 202.5 | -64.4 | -21.33 | 1.222 | 72.7 | 0.565 | 2.026 | 49.1 | 200.6 | --- | 3.171 | 15.43 | 0.435 | 67.1 | 89.1 | 25.0 | 0.252 |
| 4-1800 | 4-2480 | 0.584 | 194.1 | -67.3 | -23.75 | 1.224 | 73.4 | 0.563 | 2.043 | 46.9 | 202.0 | --- | 3.193 | 17.59 | 0.442 | 66.1 | 91.9 | 27.4 | 0.265 |
| 4-1800 | 4-2500 | 0.625 | 181.3 | -69.4 | -26.96 | 1.225 | 74.2 | 0.562 | 2.059 | 44.7 | 203.5 | --- | 3.216 | 20.54 | 0.450 | 65.2 | 95.2 | 30.4 | 0.283 |
| 4-1800 | 4-2520 | 0.688 | 164.1 | -69.6 | -31.45 | 1.227 | 75.0 | 0.561 | 2.076 | 42.5 | 204.9 | --- | 3.240 | 24.77 | 0.457 | 64.3 | 99.4 | 33.8 | 0.310 |
| 4-1800 | 4-2540 | 0.792 | 146.5 | -66.4 | -38.14 | 1.228 | 75.7 | 0.560 | 2.092 | 40.5 | 206.3 | --- | 3.264 | 31.21 | 0.464 | 63.5 | 104.9 | 37.7 | 0.352 |
| 4-1800 | 4-2560 | 0.964 | 133.9 | -58.9 | -48.89 | 1.230 | 76.3 | 0.560 | 2.108 | 38.7 | 207.7 | --- | 3.289 | 41.71 | 0.471 | 62.7 | 112.8 | 41.1 | 0.424 |
| 4-1800 | 4-2580 | 1.254 | 128.1 | -46.5 | -67.20 | 1.231 | 76.7 | 0.561 | 2.125 | 37.5 | 209.0 | --- | 3.317 | 59.76 | 0.479 | 61.9 | 123.8 | 41.5 | 0.550 |
| 4-1800 | 4-2620 | 1.050 | 222.3 | 67.1 | 54.73 | 1.234 | 81.8 | 0.547 | 2.157 | 23.4 | 211.6 | --- | 3.336 | -62.68 | 0.493 | 61.8 | 132.5 | -41.8 | 0.579 |
| 4-1800 | 4-2640 | 0.715 | 252.8 | 57.1 | 34.79 | 1.235 | 82.2 | 0.549 | 2.173 | 22.2 | 213.0 | --- | 3.366 | -43.00 | 0.500 | 61.0 | 126.4 | -41.8 | 0.448 |
| 4-1800 | 4-2660 | 0.519 | 265.5 | 44.7 | 23.07 | 1.237 | 82.9 | 0.550 | 2.189 | 20.2 | 214.2 | --- | 3.393 | -31.55 | 0.508 | 60.4 | 123.4 | -37.7 | 0.378 |
| 4-1800 | 4-2680 | 0.405 | 273.1 | 32.8 | 15.87 | 1.238 | 83.7 | 0.551 | 2.205 | 17.7 | 215.5 | --- | 3.420 | -24.62 | 0.515 | 59.9 | 123.1 | -32.9 | 0.341 |
| 4-1800 | 4-2700 | 0.337 | 279.4 | 21.7 | 11.09 | 1.239 | 84.7 | 0.552 | 2.220 | 15.0 | 216.7 | --- | 3.446 | -20.12 | 0.522 | 59.4 | 124.3 | -28.6 | 0.322 |
| 4-1800 | 4-2720 | 0.296 | 285.4 | 11.5 | 7.69 | 1.241 | 85.7 | 0.553 | 2.236 | 12.2 | 217.9 | --- | 3.473 | -17.01 | 0.529 | 58.9 | 126.5 | -25.0 | 0.313 |
| 4-1800 | 4-2740 | 0.272 | 291.8 | 2.5 | 5.15 | 1.242 | 86.7 | 0.555 | 2.251 | 9.1 | 219.1 | --- | 3.501 | -14.76 | 0.535 | 58.4 | 129.2 | -22.1 | 0.310 |
| 4-1800 | 4-2760 | 0.258 | 298.7 | -5.1 | 3.16 | 1.243 | 87.9 | 0.557 | 2.267 | 6.0 | 220.2 | --- | 3.529 | -13.08 | 0.542 | 58.0 | 132.2 | -19.6 | 0.309 |
| 4-1800 | 4-2780 | 0.253 | 306.0 | -11.4 | 1.55 | 1.244 | 89.0 | 0.559 | 2.282 | 2.7 | 221.3 | --- | 3.558 | -11.78 | 0.549 | 57.5 | 135.5 | -17.7 | 0.311 |
| 4-1800 | 4-2800 | 0.253 | 313.8 | -16.3 | 0.21 | 1.246 | 90.2 | 0.562 | 2.297 | 359.3 | 582.3 | 1.007 | 3.588 | -10.76 | 0.555 | 57.1 | 139.0 | -16.0 | 0.315 |
| 4-1810 | 4-1970 | 0.822 | 223.4 | -21.7 | -3.99 | 1.304 | 50.3 | 0.843 | 3.541 | 89.0 | 139.8 | --- | --- | 7.63 | 0.642 | 146.8 | 100.7 | 4.9 | 0.551 |
| 4-1810 | 4-1990 | 0.786 | 221.9 | -22.2 | -4.63 | 1.268 | 51.1 | 0.792 | 2.668 | 91.2 | 145.9 | --- | --- | 7.24 | 0.563 | 142.3 | 99.6 | 5.3 | 0.473 |
| 4-1810 | 4-2010 | 0.758 | 220.8 | -22.9 | -5.20 | 1.243 | 51.9 | 0.758 | 2.289 | 92.6 | 151.2 | --- | --- | 6.93 | 0.502 | 137.4 | 98.2 | 5.7 | 0.412 |
| 4-1810 | 4-2030 | 0.737 | 220.1 | -23.6 | -5.73 | 1.226 | 52.6 | 0.733 | 2.088 | 93.3 | 155.7 | --- | --- | 6.67 | 0.456 | 132.2 | 96.5 | 6.2 | 0.363 |
| 4-1810 | 4-2050 | 0.719 | 219.7 | -24.3 | -6.22 | 1.214 | 53.3 | 0.714 | 1.971 | 93.4 | 159.7 | --- | --- | 6.46 | 0.420 | 126.9 | 94.5 | 6.7 | 0.325 |
| 4-1810 | 4-2070 | 0.704 | 219.5 | -25.2 | -6.67 | 1.206 | 54.1 | 0.699 | 1.898 | 93.1 | 163.1 | --- | --- | 6.29 | 0.394 | 121.5 | 92.2 | 7.2 | 0.295 |
| 4-1810 | 4-2090 | 0.690 | 219.4 | -26.0 | -7.10 | 1.201 | 54.8 | 0.687 | 1.854 | 92.4 | 166.2 | --- | --- | 6.15 | 0.375 | 116.1 | 89.9 | 7.6 | 0.271 |
| 4-1810 | 4-2110 | 0.677 | 219.6 | -27.0 | -7.52 | 1.198 | 55.5 | 0.676 | 1.826 | 91.5 | 169.1 | --- | --- | 6.05 | 0.361 | 110.9 | 87.5 | 8.1 | 0.253 |
| 4-1810 | 4-2130 | 0.666 | 219.8 | -28.0 | -7.92 | 1.196 | 56.2 | 0.667 | 1.811 | 90.3 | 171.6 | --- | --- | 5.98 | 0.353 | 105.9 | 85.1 | 8.5 | 0.240 |
| 4-1810 | 4-2150 | 0.654 | 220.1 | -29.0 | -8.31 | 1.195 | 56.9 | 0.659 | 1.805 | 89.0 | 174.0 | --- | --- | 5.93 | 0.348 | 101.3 | 82.9 | 8.8 | 0.229 |
| 4-1810 | 4-2170 | 0.643 | 220.4 | -30.1 | -8.69 | 1.195 | 57.7 | 0.652 | 1.804 | 87.5 | 176.2 | --- | --- | 5.91 | 0.346 | 97.0 | 80.9 | 9.2 | 0.222 |
| 4-1810 | 4-2190 | 0.633 | 220.8 | -31.3 | -9.07 | 1.195 | 58.4 | 0.645 | 1.808 | 85.9 | 178.3 | --- | --- | 5.92 | 0.346 | 93.1 | 79.3 | 9.4 | 0.217 |
| 4-1810 | 4-2210 | 0.623 | 221.3 | -32.5 | -9.46 | 1.196 | 59.2 | 0.639 | 1.815 | 84.2 | 180.2 | --- | 2.974 | 5.94 | 0.349 | 89.6 | 78.0 | 9.7 | 0.214 |
| 4-1810 | 4-2230 | 0.613 | 221.8 | -33.7 | -9.84 | 1.197 | 59.9 | 0.633 | 1.825 | 82.4 | 182.1 | --- | 2.980 | 6.00 | 0.352 | 86.4 | 77.0 | 9.9 | 0.213 |
| 4-1810 | 4-2250 | 0.603 | 222.3 | -35.1 | -10.24 | 1.199 | 60.7 | 0.627 | 1.837 | 80.5 | 183.9 | --- | 2.989 | 6.08 | 0.357 | 83.5 | 76.5 | 10.2 | 0.212 |
| 4-1810 | 4-2270 | 0.594 | 222.8 | -36.5 | -10.65 | 1.201 | 61.5 | 0.622 | 1.850 | 78.6 | 185.6 | --- | 3.001 | 6.18 | 0.362 | 80.9 | 76.2 | 10.4 | 0.213 |
| 4-1810 | 4-2290 | 0.585 | 223.4 | -38.0 | -11.07 | 1.202 | 62.3 | 0.617 | 1.865 | 76.6 | 187.3 | --- | 3.016 | 6.32 | 0.368 | 78.5 | 76.3 | 10.7 | 0.214 |
| 4-1810 | 4-2310 | 0.576 | 223.9 | -39.6 | -11.52 | 1.204 | 63.1 | 0.613 | 1.880 | 74.5 | 189.0 | --- | 3.032 | 6.49 | 0.375 | 76.4 | 76.7 | 11.0 | 0.216 |
| 4-1810 | 4-2330 | 0.568 | 224.4 | -41.3 | -11.99 | 1.206 | 63.9 | 0.608 | 1.896 | 72.4 | 190.5 | --- | 3.049 | 6.70 | 0.382 | 74.5 | 77.4 | 11.4 | 0.218 |
| 4-1810 | 4-2350 | 0.560 | 224.9 | -43.1 | -12.50 | 1.208 | 64.7 | 0.604 | 1.913 | 70.3 | 192.1 | --- | 3.068 | 6.96 | 0.389 | 72.8 | 78.4 | 11.8 | 0.220 |
| 4-1810 | 4-2370 | 0.553 | 225.3 | -45.0 | -13.06 | 1.210 | 65.5 | 0.600 | 1.930 | 68.1 | 193.6 | --- | 3.087 | 7.26 | 0.396 | 71.3 | 79.6 | 12.3 | 0.223 |
| 4-1810 | 4-2390 | 0.547 | 225.6 | -47.1 | -13.66 | 1.212 | 66.3 | 0.596 | 1.947 | 65.9 | 195.1 | --- | 3.108 | 7.63 | 0.404 | 69.9 | 81.1 | 12.8 | 0.227 |
| 4-1810 | 4-2410 | 0.542 | 225.8 | -49.4 | -14.34 | 1.214 | 67.2 | 0.593 | 1.964 | 63.7 | 196.6 | --- | 3.129 | 8.08 | 0.411 | 68.6 | 82.7 | 13.5 | 0.230 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1810 | 4-2430 | 0.539 | 225.8 | -51.8 | -15.11 | 1.215 | 68.0 | 0.589 | 1.982 | 61.4 | 198.1 | --- | 3.150 | 8.62 | 0.419 | 67.4 | 84.6 | 14.3 | 0.235 |
| 4-1810 | 4-2450 | 0.538 | 225.5 | -54.5 | -16.00 | 1.217 | 68.9 | 0.586 | 2.000 | 59.1 | 199.5 | --- | 3.171 | 9.29 | 0.426 | 66.4 | 86.6 | 15.3 | 0.239 |
| 4-1810 | 4-2470 | 0.539 | 224.7 | -57.4 | -17.05 | 1.219 | 69.7 | 0.583 | 2.017 | 56.8 | 200.9 | --- | 3.193 | 10.12 | 0.434 | 65.4 | 88.8 | 16.5 | 0.244 |
| 4-1810 | 4-2490 | 0.544 | 223.0 | -60.6 | -18.32 | 1.221 | 70.6 | 0.580 | 2.035 | 54.4 | 202.3 | --- | 3.215 | 11.17 | 0.442 | 64.5 | 91.3 | 18.0 | 0.251 |
| 4-1810 | 4-2510 | 0.554 | 220.0 | -64.0 | -19.90 | 1.222 | 71.4 | 0.578 | 2.052 | 52.0 | 203.7 | --- | 3.238 | 12.54 | 0.449 | 63.7 | 94.0 | 19.8 | 0.258 |
| 4-1810 | 4-2530 | 0.572 | 214.4 | -67.6 | -21.94 | 1.224 | 72.3 | 0.575 | 2.070 | 49.6 | 205.1 | --- | 3.261 | 14.36 | 0.457 | 63.0 | 96.9 | 22.1 | 0.268 |
| 4-1810 | 4-2550 | 0.602 | 204.1 | -70.9 | -24.69 | 1.226 | 73.2 | 0.573 | 2.087 | 47.2 | 206.5 | --- | 3.284 | 16.91 | 0.465 | 62.3 | 100.3 | 25.1 | 0.282 |
| 4-1810 | 4-2570 | 0.654 | 185.9 | -73.0 | -28.64 | 1.227 | 74.0 | 0.571 | 2.105 | 44.8 | 207.9 | --- | 3.307 | 20.65 | 0.472 | 61.7 | 104.4 | 28.9 | 0.303 |
| 4-1810 | 4-2590 | 0.744 | 161.6 | -71.6 | -34.78 | 1.229 | 74.8 | 0.570 | 2.122 | 42.5 | 209.2 | --- | 3.331 | 26.58 | 0.480 | 61.1 | 109.8 | 33.7 | 0.338 |
| 4-1810 | 4-2610 | 0.911 | 142.6 | -64.4 | -45.40 | 1.231 | 75.6 | 0.569 | 2.139 | 40.4 | 210.5 | --- | 3.356 | 36.99 | 0.487 | 60.5 | 117.8 | 38.9 | 0.406 |
| 4-1810 | 4-2630 | 1.234 | 134.8 | -50.0 | -65.89 | 1.232 | 76.1 | 0.569 | 2.156 | 38.9 | 211.8 | --- | 3.384 | 57.27 | 0.495 | 59.8 | 130.8 | 41.2 | 0.547 |
| 4-1810 | 4-2670 | 0.873 | 241.4 | 59.1 | 43.88 | 1.235 | 80.4 | 0.557 | 2.190 | 27.1 | 214.5 | --- | 3.409 | -52.94 | 0.510 | 59.7 | 136.3 | -41.9 | 0.526 |
| 4-1810 | 4-2690 | 0.560 | 264.3 | 44.4 | 25.10 | 1.236 | 81.0 | 0.558 | 2.206 | 25.3 | 215.8 | --- | 3.438 | -34.38 | 0.517 | 59.2 | 129.8 | -38.2 | 0.405 |
| 4-1810 | 4-2710 | 0.408 | 274.6 | 28.9 | 15.27 | 1.238 | 81.9 | 0.559 | 2.223 | 22.8 | 217.0 | --- | 3.464 | -24.76 | 0.524 | 58.7 | 128.2 | -32.2 | 0.352 |
| 4-1810 | 4-2730 | 0.332 | 281.7 | 14.8 | 9.49 | 1.239 | 82.9 | 0.559 | 2.239 | 20.0 | 218.2 | --- | 3.490 | -19.21 | 0.531 | 58.3 | 129.2 | -26.9 | 0.328 |
| 4-1810 | 4-2750 | 0.291 | 288.3 | 2.8 | 5.72 | 1.240 | 83.9 | 0.559 | 2.255 | 17.0 | 219.4 | --- | 3.516 | -15.67 | 0.538 | 58.0 | 131.4 | -22.8 | 0.318 |
| 4-1810 | 4-2770 | 0.270 | 295.1 | -7.1 | 3.06 | 1.242 | 85.0 | 0.560 | 2.271 | 13.9 | 220.5 | --- | 3.543 | -13.26 | 0.545 | 57.6 | 134.2 | -19.6 | 0.314 |
| 4-1810 | 4-2790 | 0.259 | 302.3 | -14.8 | 1.08 | 1.243 | 86.2 | 0.561 | 2.287 | 10.6 | 221.6 | --- | 3.571 | -11.52 | 0.551 | 57.3 | 137.4 | -17.1 | 0.314 |
| 4-1810 | 4-2810 | 0.256 | 310.1 | -20.7 | -0.47 | 1.244 | 87.4 | 0.563 | 2.303 | 7.2 | 222.7 | --- | 3.599 | -10.22 | 0.558 | 56.9 | 140.8 | -15.2 | 0.316 |
| 4-1820 | 4-1960 | 0.985 | 226.6 | -21.5 | -4.33 | 1.328 | 41.9 | 0.910 | 4.654 | 103.1 | 142.4 | --- | --- | 6.89 | 0.694 | 153.3 | 98.5 | 3.3 | 0.642 |
| 4-1820 | 4-1980 | 0.929 | 225.3 | -22.1 | -5.03 | 1.279 | 43.3 | 0.855 | 2.928 | 105.1 | 148.3 | --- | --- | 6.37 | 0.593 | 148.8 | 97.4 | 3.6 | 0.544 |
| 4-1820 | 4-2000 | 0.889 | 224.5 | -22.7 | -5.62 | 1.247 | 44.5 | 0.818 | 2.362 | 106.1 | 153.2 | --- | --- | 5.95 | 0.517 | 143.8 | 95.9 | 3.9 | 0.469 |
| 4-1820 | 4-2020 | 0.857 | 224.0 | -23.3 | -6.14 | 1.225 | 45.7 | 0.791 | 2.095 | 106.5 | 157.4 | --- | --- | 5.61 | 0.459 | 138.4 | 94.2 | 4.2 | 0.411 |
| 4-1820 | 4-2040 | 0.832 | 223.8 | -24.0 | -6.60 | 1.210 | 46.7 | 0.770 | 1.948 | 106.3 | 161.0 | --- | --- | 5.33 | 0.415 | 132.6 | 92.3 | 4.5 | 0.366 |
| 4-1820 | 4-2060 | 0.810 | 223.8 | -24.7 | -7.02 | 1.200 | 47.7 | 0.753 | 1.862 | 105.6 | 164.2 | --- | --- | 5.10 | 0.382 | 126.6 | 90.1 | 4.7 | 0.330 |
| 4-1820 | 4-2080 | 0.791 | 224.0 | -25.5 | -7.40 | 1.194 | 48.7 | 0.739 | 1.810 | 104.7 | 167.1 | --- | --- | 4.92 | 0.359 | 120.6 | 87.9 | 5.0 | 0.303 |
| 4-1820 | 4-2100 | 0.774 | 224.3 | -26.3 | -7.75 | 1.190 | 49.6 | 0.727 | 1.780 | 103.5 | 169.6 | --- | --- | 4.76 | 0.342 | 114.6 | 85.6 | 5.3 | 0.281 |
| 4-1820 | 4-2120 | 0.758 | 224.7 | -27.2 | -8.08 | 1.188 | 50.5 | 0.716 | 1.763 | 102.1 | 172.0 | --- | --- | 4.64 | 0.332 | 108.9 | 83.3 | 5.5 | 0.265 |
| 4-1820 | 4-2140 | 0.744 | 225.2 | -28.0 | -8.40 | 1.187 | 51.4 | 0.706 | 1.756 | 100.6 | 174.2 | --- | --- | 4.54 | 0.326 | 103.5 | 81.3 | 5.7 | 0.253 |
| 4-1820 | 4-2160 | 0.730 | 225.7 | -28.9 | -8.70 | 1.186 | 52.3 | 0.697 | 1.756 | 98.9 | 176.2 | --- | --- | 4.46 | 0.324 | 98.6 | 79.4 | 5.9 | 0.244 |
| 4-1820 | 4-2180 | 0.716 | 226.3 | -29.9 | -8.99 | 1.187 | 53.2 | 0.689 | 1.760 | 97.1 | 178.2 | --- | --- | 4.41 | 0.325 | 94.1 | 77.9 | 6.0 | 0.237 |
| 4-1820 | 4-2200 | 0.703 | 227.0 | -30.9 | -9.28 | 1.188 | 54.1 | 0.681 | 1.769 | 95.3 | 180.0 | --- | --- | 4.37 | 0.328 | 90.0 | 76.7 | 6.2 | 0.233 |
| 4-1820 | 4-2220 | 0.690 | 227.7 | -31.9 | -9.56 | 1.190 | 55.0 | 0.674 | 1.779 | 93.3 | 181.7 | --- | 2.978 | 4.36 | 0.332 | 86.4 | 75.8 | 6.3 | 0.230 |
| 4-1820 | 4-2240 | 0.678 | 228.4 | -32.9 | -9.84 | 1.191 | 55.9 | 0.667 | 1.793 | 91.3 | 183.4 | --- | 2.988 | 4.36 | 0.338 | 83.2 | 75.3 | 6.4 | 0.229 |
| 4-1820 | 4-2260 | 0.665 | 229.1 | -34.0 | -10.12 | 1.193 | 56.8 | 0.660 | 1.807 | 89.3 | 185.1 | --- | 3.000 | 4.38 | 0.344 | 80.3 | 75.1 | 6.5 | 0.228 |
| 4-1820 | 4-2280 | 0.653 | 229.9 | -35.2 | -10.41 | 1.195 | 57.7 | 0.654 | 1.823 | 87.2 | 186.7 | --- | 3.015 | 4.41 | 0.351 | 77.8 | 75.3 | 6.7 | 0.228 |
| 4-1820 | 4-2300 | 0.641 | 230.7 | -36.3 | -10.70 | 1.197 | 58.6 | 0.648 | 1.840 | 85.1 | 188.2 | --- | 3.032 | 4.47 | 0.359 | 75.6 | 75.7 | 6.8 | 0.229 |
| 4-1820 | 4-2320 | 0.630 | 231.5 | -37.6 | -11.00 | 1.200 | 59.4 | 0.642 | 1.857 | 82.9 | 189.7 | --- | 3.050 | 4.55 | 0.366 | 73.6 | 76.4 | 7.0 | 0.230 |
| 4-1820 | 4-2340 | 0.619 | 232.4 | -38.9 | -11.31 | 1.202 | 60.3 | 0.637 | 1.875 | 80.7 | 191.2 | --- | 3.069 | 4.65 | 0.374 | 71.8 | 77.4 | 7.2 | 0.232 |
| 4-1820 | 4-2360 | 0.608 | 233.2 | -40.3 | -11.64 | 1.204 | 61.2 | 0.631 | 1.893 | 78.5 | 192.7 | --- | 3.089 | 4.78 | 0.383 | 70.2 | 78.6 | 7.4 | 0.233 |
| 4-1820 | 4-2380 | 0.597 | 234.1 | -41.8 | -11.99 | 1.206 | 62.1 | 0.626 | 1.912 | 76.2 | 194.1 | --- | 3.109 | 4.93 | 0.391 | 68.8 | 79.9 | 7.6 | 0.236 |
| 4-1820 | 4-2400 | 0.587 | 235.0 | -43.3 | -12.37 | 1.208 | 63.0 | 0.621 | 1.931 | 73.9 | 195.5 | --- | 3.130 | 5.12 | 0.399 | 67.5 | 81.5 | 7.9 | 0.238 |
| 4-1820 | 4-2420 | 0.577 | 235.8 | -45.0 | -12.78 | 1.210 | 63.9 | 0.617 | 1.950 | 71.6 | 197.0 | --- | 3.152 | 5.34 | 0.407 | 66.3 | 83.3 | 8.3 | 0.240 |
| 4-1820 | 4-2440 | 0.568 | 236.7 | -46.8 | -13.23 | 1.212 | 64.8 | 0.612 | 1.969 | 69.2 | 198.4 | --- | 3.174 | 5.62 | 0.416 | 65.3 | 85.2 | 8.8 | 0.243 |
| 4-1820 | 4-2460 | 0.560 | 237.5 | -48.8 | -13.74 | 1.214 | 65.7 | 0.608 | 1.988 | 66.8 | 199.8 | --- | 3.196 | 5.95 | 0.424 | 64.4 | 87.3 | 9.3 | 0.246 |
| 4-1820 | 4-2480 | 0.553 | 238.3 | -50.9 | -14.32 | 1.216 | 66.6 | 0.604 | 2.007 | 64.4 | 201.1 | --- | 3.218 | 6.36 | 0.432 | 63.5 | 89.5 | 9.9 | 0.249 |
| 4-1820 | 4-2500 | 0.547 | 238.9 | -53.3 | -14.99 | 1.218 | 67.6 | 0.600 | 2.025 | 62.0 | 202.5 | --- | 3.240 | 6.86 | 0.441 | 62.7 | 91.9 | 10.7 | 0.253 |
| 4-1820 | 4-2520 | 0.544 | 239.4 | -55.9 | -15.79 | 1.220 | 68.5 | 0.596 | 2.044 | 59.5 | 203.9 | --- | 3.263 | 7.50 | 0.449 | 62.1 | 94.4 | 11.6 | 0.257 |
| 4-1820 | 4-2540 | 0.543 | 239.4 | -58.8 | -16.76 | 1.222 | 69.4 | 0.593 | 2.063 | 57.0 | 205.2 | --- | 3.285 | 8.30 | 0.457 | 61.4 | 97.1 | 12.8 | 0.261 |
| 4-1820 | 4-2560 | 0.545 | 238.8 | -62.1 | -17.98 | 1.223 | 70.4 | 0.589 | 2.081 | 54.4 | 206.6 | --- | 3.308 | 9.37 | 0.465 | 60.8 | 99.9 | 14.3 | 0.267 |
| 4-1820 | 4-2580 | 0.554 | 236.8 | -65.9 | -19.58 | 1.225 | 71.3 | 0.586 | 2.099 | 51.8 | 207.9 | --- | 3.330 | 10.81 | 0.473 | 60.3 | 103.0 | 16.3 | 0.274 |
| 4-1820 | 4-2600 | 0.573 | 231.7 | -70.1 | -21.79 | 1.227 | 72.3 | 0.583 | 2.118 | 49.2 | 209.3 | --- | 3.353 | 12.86 | 0.481 | 59.8 | 106.3 | 19.0 | 0.283 |
| 4-1820 | 4-2620 | 0.610 | 219.1 | -74.5 | -25.06 | 1.228 | 73.2 | 0.581 | 2.136 | 46.6 | 210.6 | --- | 3.376 | 15.97 | 0.488 | 59.4 | 110.2 | 22.8 | 0.298 |
| 4-1820 | 4-2640 | 0.682 | 189.2 | -76.8 | -30.45 | 1.230 | 74.1 | 0.579 | 2.154 | 44.1 | 211.9 | --- | 3.400 | 21.20 | 0.496 | 59.0 | 115.1 | 28.2 | 0.325 |
| 4-1820 | 4-2660 | 0.840 | 153.8 | -71.2 | -40.78 | 1.232 | 75.0 | 0.577 | 2.171 | 41.6 | 213.2 | --- | 3.424 | 31.38 | 0.504 | 58.6 | 122.9 | 35.5 | 0.385 |
| 4-1820 | 4-2680 | 1.226 | 141.3 | -53.5 | -65.27 | 1.233 | 75.7 | 0.577 | 2.189 | 39.8 | 214.5 | --- | 3.451 | 55.70 | 0.511 | 58.1 | 138.5 | 40.7 | 0.550 |
| 4-1820 | 4-2720 | 0.621 | 262.9 | 44.8 | 28.29 | 1.236 | 79.2 | 0.567 | 2.223 | 30.1 | 217.1 | --- | 3.484 | -38.19 | 0.526 | 58.0 | 136.9 | -38.8 | 0.440 |
| 4-1820 | 4-2740 | 0.404 | 277.9 | 23.0 | 13.84 | 1.237 | 80.1 | 0.567 | 2.240 | 27.6 | 218.4 | --- | 3.510 | -23.90 | 0.533 | 57.6 | 133.1 | -30.6 | 0.358 |
| 4-1820 | 4-2760 | 0.324 | 286.0 | 4.6 | 6.92 | 1.239 | 81.1 | 0.567 | 2.257 | 24.6 | 219.6 | --- | 3.536 | -17.15 | 0.540 | 57.4 | 133.8 | -23.9 | 0.330 |
| 4-1820 | 4-2780 | 0.291 | 293.0 | -9.1 | 2.94 | 1.240 | 82.3 | 0.566 | 2.274 | 21.5 | 220.7 | --- | 3.561 | -13.34 | 0.547 | 57.1 | 136.2 | -19.3 | 0.320 |
| 4-1820 | 4-2800 | 0.277 | 300.0 | -19.0 | 0.36 | 1.241 | 83.4 | 0.566 | 2.290 | 18.3 | 221.9 | --- | 3.587 | -10.93 | 0.554 | 56.8 | 139.3 | -16.1 | 0.318 |
| 4-1820 | 4-2820 | 0.271 | 307.6 | -25.9 | -1.47 | 1.243 | 84.6 | 0.567 | 2.307 | 14.9 | 222.9 | --- | 3.614 | -9.29 | 0.560 | 56.6 | 142.7 | -13.7 | 0.319 |
| 4-1830 | 4-1970 | 1.102 | 228.8 | -22.1 | -5.90 | 1.302 | 34.1 | 0.921 | 3.607 | 119.9 | 151.5 | --- | --- | 5.12 | 0.646 | 156.5 | 95.2 | 2.1 | 0.642 |
| 4-1830 | 4-1990 | 1.041 | 228.2 | -22.7 | -6.50 | 1.257 | 36.1 | 0.883 | 2.546 | 120.3 | 155.8 | --- | --- | 4.62 | 0.547 | 151.7 | 93.9 | 2.2 | 0.547 |
| 4-1830 | 4-2010 | 0.995 | 227.9 | -23.3 | -7.00 | 1.228 | 37.7 | 0.854 | 2.144 | 120.1 | 159.5 | --- | --- | 4.23 | 0.472 | 146.2 | 92.2 | 2.3 | 0.475 |
| 4-1830 | 4-2030 | 0.959 | 228.0 | -24.0 | -7.41 | 1.208 | 39.2 | 0.832 | 1.946 | 119.4 | 162.7 | --- | --- | 3.92 | 0.416 | 140.2 | 90.3 | 2.5 | 0.419 |
| 4-1830 | 4-2050 | 0.929 | 228.2 | -24.7 | -7.77 | 1.195 | 40.6 | 0.813 | 1.836 | 118.4 | 165.5 | --- | --- | 3.67 | 0.373 | 133.7 | 88.3 | 2.6 | 0.376 |
| 4-1830 | 4-2070 | 0.903 | 228.6 | -25.4 | -8.08 | 1.187 | 41.9 | 0.797 | 1.772 | 117.1 | 168.0 | --- | --- | 3.46 | 0.343 | 126.9 | 86.1 | 2.8 | 0.343 |
| 4-1830 | 4-2090 | 0.881 | 229.0 | -26.1 | -8.36 | 1.182 | 43.1 | 0.783 | 1.735 | 115.6 | 170.3 | --- | --- | 3.29 | 0.322 | 120.0 | 83.9 | 2.9 | 0.317 |
| 4-1830 | 4-2110 | 0.860 | 229.6 | -26.8 | -8.62 | 1.179 | 44.3 | 0.770 | 1.715 | 113.9 | 172.4 | --- | --- | 3.15 | 0.308 | 113.3 | 81.8 | 3.0 | 0.298 |
| 4-1830 | 4-2130 | 0.842 | 230.3 | -27.6 | -8.85 | 1.178 | 45.4 | 0.759 | 1.706 | 112.1 | 174.4 | --- | --- | 3.04 | 0.301 | 106.9 | 79.9 | 3.1 | 0.283 |
| 4-1830 | 4-2150 | 0.824 | 231.0 | -28.3 | -9.07 | 1.178 | 46.5 | 0.748 | 1.705 | 110.3 | 176.2 | --- | --- | 2.94 | 0.298 | 101.0 | 78.2 | 3.2 | 0.271 |
| 4-1830 | 4-2170 | 0.807 | 231.7 | -29.1 | -9.27 | 1.179 | 47.6 | 0.738 | 1.710 | 108.3 | 178.0 | --- | --- | 2.86 | 0.299 | 95.6 | 76.8 | 3.2 | 0.263 |
| 4-1830 | 4-2190 | 0.791 | 232.5 | -29.9 | -9.46 | 1.180 | 48.7 | 0.729 | 1.719 | 106.3 | 179.7 | --- | --- | 2.80 | 0.302 | 90.8 | 75.7 | 3.3 | 0.257 |
| 4-1830 | 4-2210 | 0.775 | 233.4 | -30.8 | -9.65 | 1.181 | 49.7 | 0.720 | 1.731 | 104.2 | 181.3 | --- | 2.976 | 2.76 | 0.308 | 86.6 | 74.9 | 3.3 | 0.253 |
| 4-1830 | 4-2230 | 0.760 | 234.3 | -31.6 | -9.83 | 1.183 | 50.7 | 0.711 | 1.745 | 102.1 | 182.9 | --- | 2.986 | 2.72 | 0.314 | 82.9 | 74.4 | 3.4 | 0.250 |
| 4-1830 | 4-2250 | 0.745 | 235.2 | -32.5 | -10.00 | 1.186 | 51.7 | 0.703 | 1.761 | 100.0 | 184.4 | --- | 2.998 | 2.70 | 0.322 | 79.7 | 74.3 | 3.4 | 0.248 |
| 4-1830 | 4-2270 | 0.731 | 236.1 | -33.4 | -10.18 | 1.188 | 52.7 | 0.695 | 1.778 | 97.8 | 185.9 | --- | 3.014 | 2.69 | 0.330 | 76.9 | 74.5 | 3.5 | 0.247 |
| 4-1830 | 4-2290 | 0.716 | 237.1 | -34.3 | -10.35 | 1.190 | 53.7 | 0.688 | 1.796 | 95.6 | 187.4 | --- | 3.031 | 2.69 | 0.339 | 74.5 | 74.9 | 3.6 | 0.247 |
| 4-1830 | 4-2310 | 0.702 | 238.0 | -35.2 | -10.52 | 1.193 | 54.7 | 0.681 | 1.814 | 93.3 | 188.8 | --- | 3.049 | 2.70 | 0.348 | 72.3 | 75.6 | 3.6 | 0.247 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1830 | 4-2330 | 0.689 | 239.1 | -36.2 | -10.70 | 1.195 | 55.7 | 0.674 | 1.834 | 91.0 | 190.2 | --- | 3.069 | 2.72 | 0.357 | 70.4 | 76.6 | 3.7 | 0.248 |
| 4-1830 | 4-2350 | 0.675 | 240.1 | -37.2 | -10.88 | 1.198 | 56.7 | 0.667 | 1.853 | 88.7 | 191.6 | --- | 3.090 | 2.76 | 0.367 | 68.8 | 77.7 | 3.8 | 0.249 |
| 4-1830 | 4-2370 | 0.661 | 241.2 | -38.3 | -11.07 | 1.200 | 57.7 | 0.661 | 1.873 | 86.4 | 193.0 | --- | 3.111 | 2.80 | 0.376 | 67.3 | 79.1 | 3.9 | 0.250 |
| 4-1830 | 4-2390 | 0.648 | 242.3 | -39.4 | -11.26 | 1.202 | 58.6 | 0.655 | 1.893 | 84.0 | 194.4 | --- | 3.133 | 2.87 | 0.385 | 66.0 | 80.7 | 4.0 | 0.252 |
| 4-1830 | 4-2410 | 0.635 | 243.5 | -40.5 | -11.47 | 1.205 | 59.6 | 0.649 | 1.914 | 81.7 | 195.8 | --- | 3.155 | 2.94 | 0.394 | 64.9 | 82.4 | 4.2 | 0.253 |
| 4-1830 | 4-2430 | 0.622 | 244.6 | -41.7 | -11.69 | 1.207 | 60.6 | 0.643 | 1.934 | 79.3 | 197.1 | --- | 3.177 | 3.04 | 0.403 | 63.8 | 84.3 | 4.3 | 0.255 |
| 4-1830 | 4-2450 | 0.610 | 245.9 | -43.0 | -11.92 | 1.209 | 61.5 | 0.637 | 1.954 | 76.8 | 198.5 | --- | 3.199 | 3.16 | 0.412 | 62.9 | 86.3 | 4.5 | 0.257 |
| 4-1830 | 4-2470 | 0.597 | 247.1 | -44.4 | -12.18 | 1.211 | 62.5 | 0.632 | 1.974 | 74.4 | 199.8 | --- | 3.222 | 3.30 | 0.421 | 62.1 | 88.4 | 4.7 | 0.259 |
| 4-1830 | 4-2490 | 0.586 | 248.5 | -45.8 | -12.46 | 1.213 | 63.5 | 0.627 | 1.994 | 71.9 | 201.2 | --- | 3.244 | 3.47 | 0.430 | 61.4 | 90.7 | 5.0 | 0.261 |
| 4-1830 | 4-2510 | 0.574 | 249.8 | -47.4 | -12.79 | 1.215 | 64.5 | 0.622 | 2.014 | 69.4 | 202.5 | --- | 3.267 | 3.68 | 0.439 | 60.7 | 93.1 | 5.4 | 0.263 |
| 4-1830 | 4-2530 | 0.564 | 251.3 | -49.1 | -13.15 | 1.217 | 65.5 | 0.617 | 2.034 | 66.8 | 203.9 | --- | 3.289 | 3.94 | 0.448 | 60.2 | 95.6 | 5.8 | 0.266 |
| 4-1830 | 4-2550 | 0.554 | 252.7 | -51.0 | -13.58 | 1.219 | 66.4 | 0.613 | 2.054 | 64.3 | 205.2 | --- | 3.312 | 4.27 | 0.456 | 59.6 | 98.3 | 6.3 | 0.268 |
| 4-1830 | 4-2570 | 0.545 | 254.2 | -53.1 | -14.09 | 1.221 | 67.4 | 0.608 | 2.073 | 61.6 | 206.6 | --- | 3.334 | 4.68 | 0.465 | 59.2 | 101.0 | 6.9 | 0.271 |
| 4-1830 | 4-2590 | 0.538 | 255.6 | -55.5 | -14.73 | 1.223 | 68.4 | 0.604 | 2.093 | 59.0 | 207.9 | --- | 3.357 | 5.21 | 0.473 | 58.8 | 103.8 | 7.7 | 0.274 |
| 4-1830 | 4-2610 | 0.533 | 257.0 | -58.2 | -15.53 | 1.225 | 69.5 | 0.600 | 2.112 | 56.3 | 209.2 | --- | 3.379 | 5.91 | 0.481 | 58.4 | 106.8 | 8.7 | 0.278 |
| 4-1830 | 4-2630 | 0.533 | 258.1 | -61.5 | -16.61 | 1.227 | 70.5 | 0.597 | 2.131 | 53.6 | 210.6 | --- | 3.402 | 6.88 | 0.489 | 58.0 | 109.9 | 10.1 | 0.283 |
| 4-1830 | 4-2650 | 0.538 | 258.4 | -65.5 | -18.13 | 1.228 | 71.5 | 0.593 | 2.149 | 50.8 | 211.9 | --- | 3.424 | 8.31 | 0.497 | 57.7 | 113.2 | 12.2 | 0.288 |
| 4-1830 | 4-2670 | 0.557 | 256.3 | -70.6 | -20.49 | 1.230 | 72.6 | 0.590 | 2.168 | 48.0 | 213.2 | --- | 3.447 | 10.57 | 0.505 | 57.5 | 116.8 | 15.2 | 0.297 |
| 4-1830 | 4-2690 | 0.604 | 243.9 | -77.3 | -24.66 | 1.231 | 73.6 | 0.587 | 2.186 | 45.2 | 214.5 | --- | 3.470 | 14.64 | 0.513 | 57.2 | 121.1 | 20.3 | 0.314 |
| 4-1830 | 4-2710 | 0.737 | 180.4 | -79.8 | -34.01 | 1.233 | 74.6 | 0.585 | 2.204 | 42.4 | 215.8 | --- | 3.493 | 23.88 | 0.520 | 57.0 | 127.9 | 29.5 | 0.359 |
| 4-1830 | 4-2730 | 1.252 | 147.6 | -55.6 | -66.92 | 1.234 | 75.4 | 0.584 | 2.222 | 40.2 | 217.0 | --- | 3.520 | 56.69 | 0.528 | 56.7 | 147.8 | 40.1 | 0.572 |
| 4-1830 | 4-2750 | 0.749 | 257.3 | 47.5 | 35.65 | 1.236 | 77.5 | 0.577 | 2.240 | 34.6 | 218.4 | --- | 3.533 | -45.97 | 0.535 | 56.8 | 146.4 | -39.8 | 0.503 |
| 4-1830 | 4-2770 | 0.385 | 283.7 | 12.6 | 10.58 | 1.237 | 78.4 | 0.576 | 2.258 | 32.1 | 219.6 | --- | 3.559 | -21.01 | 0.542 | 56.6 | 137.3 | -27.2 | 0.356 |
| 4-1830 | 4-2790 | 0.321 | 292.8 | -11.2 | 2.73 | 1.239 | 79.5 | 0.575 | 2.275 | 29.0 | 220.8 | --- | 3.583 | -13.26 | 0.549 | 56.4 | 138.2 | -18.7 | 0.328 |
| 4-1830 | 4-2810 | 0.305 | 299.9 | -24.6 | -0.98 | 1.240 | 80.7 | 0.574 | 2.292 | 25.7 | 221.9 | --- | 3.608 | -9.66 | 0.556 | 56.2 | 141.1 | -14.0 | 0.321 |
| 4-1830 | 4-2830 | 0.299 | 307.1 | -32.5 | -3.15 | 1.241 | 81.9 | 0.573 | 2.309 | 22.3 | 223.0 | --- | 3.633 | -7.61 | 0.563 | 56.0 | 144.5 | -11.1 | 0.321 |
| 4-1840 | 4-2000 | 1.154 | 231.8 | -23.5 | -8.78 | 1.239 | 28.7 | 0.917 | 2.299 | 134.3 | 162.4 | --- | --- | 2.02 | 0.506 | 155.7 | 90.5 | 0.8 | 0.561 |
| 4-1840 | 4-2020 | 1.103 | 232.0 | -24.1 | -9.04 | 1.212 | 30.8 | 0.895 | 1.989 | 132.9 | 164.8 | --- | --- | 1.80 | 0.430 | 149.8 | 88.7 | 0.8 | 0.491 |
| 4-1840 | 4-2040 | 1.062 | 232.5 | -24.7 | -9.25 | 1.194 | 32.7 | 0.875 | 1.833 | 131.3 | 167.1 | --- | --- | 1.63 | 0.374 | 143.1 | 86.8 | 0.8 | 0.437 |
| 4-1840 | 4-2060 | 1.027 | 233.0 | -25.4 | -9.42 | 1.182 | 34.4 | 0.858 | 1.746 | 129.6 | 169.2 | --- | --- | 1.49 | 0.332 | 135.8 | 84.8 | 0.9 | 0.396 |
| 4-1840 | 4-2080 | 0.998 | 233.7 | -26.1 | -9.56 | 1.175 | 36.0 | 0.843 | 1.697 | 127.7 | 171.1 | --- | --- | 1.38 | 0.303 | 128.0 | 82.7 | 0.9 | 0.364 |
| 4-1840 | 4-2100 | 0.971 | 234.5 | -26.7 | -9.68 | 1.171 | 37.5 | 0.829 | 1.671 | 125.7 | 172.9 | --- | --- | 1.30 | 0.284 | 120.0 | 80.7 | 0.9 | 0.339 |
| 4-1840 | 4-2120 | 0.948 | 235.3 | -27.4 | -9.79 | 1.170 | 38.9 | 0.815 | 1.658 | 123.7 | 174.6 | --- | --- | 1.22 | 0.273 | 112.1 | 78.9 | 1.0 | 0.320 |
| 4-1840 | 4-2140 | 0.926 | 236.2 | -28.1 | -9.89 | 1.169 | 40.3 | 0.803 | 1.656 | 121.6 | 176.2 | --- | --- | 1.16 | 0.268 | 104.8 | 77.3 | 1.0 | 0.306 |
| 4-1840 | 4-2160 | 0.906 | 237.1 | -28.8 | -9.98 | 1.170 | 41.6 | 0.791 | 1.660 | 119.4 | 177.8 | --- | --- | 1.12 | 0.268 | 98.2 | 76.0 | 1.0 | 0.295 |
| 4-1840 | 4-2180 | 0.886 | 238.0 | -29.4 | -10.06 | 1.171 | 42.8 | 0.780 | 1.668 | 117.3 | 179.4 | --- | --- | 1.07 | 0.272 | 92.3 | 75.0 | 1.0 | 0.287 |
| 4-1840 | 4-2200 | 0.868 | 239.0 | -30.1 | -10.14 | 1.173 | 44.0 | 0.770 | 1.680 | 115.0 | 180.8 | --- | 2.974 | 1.04 | 0.279 | 87.2 | 74.3 | 1.0 | 0.281 |
| 4-1840 | 4-2220 | 0.850 | 240.0 | -30.8 | -10.21 | 1.175 | 45.2 | 0.760 | 1.695 | 112.8 | 182.3 | --- | 2.983 | 1.01 | 0.287 | 82.8 | 73.9 | 1.0 | 0.276 |
| 4-1840 | 4-2240 | 0.832 | 241.0 | -31.5 | -10.28 | 1.177 | 46.4 | 0.750 | 1.712 | 110.5 | 183.7 | --- | 2.996 | 0.99 | 0.296 | 79.1 | 73.7 | 1.1 | 0.273 |
| 4-1840 | 4-2260 | 0.815 | 242.1 | -32.2 | -10.34 | 1.180 | 47.5 | 0.741 | 1.730 | 108.2 | 185.1 | --- | 3.011 | 0.98 | 0.306 | 75.9 | 73.9 | 1.1 | 0.271 |
| 4-1840 | 4-2280 | 0.799 | 243.2 | -32.9 | -10.41 | 1.183 | 48.6 | 0.732 | 1.749 | 105.9 | 186.5 | --- | 3.029 | 0.96 | 0.316 | 73.1 | 74.4 | 1.1 | 0.270 |
| 4-1840 | 4-2300 | 0.782 | 244.3 | -33.6 | -10.47 | 1.185 | 49.7 | 0.724 | 1.769 | 103.6 | 187.8 | --- | 3.048 | 0.95 | 0.327 | 70.8 | 75.1 | 1.1 | 0.269 |
| 4-1840 | 4-2320 | 0.766 | 245.4 | -34.4 | -10.53 | 1.188 | 50.8 | 0.715 | 1.789 | 101.2 | 189.2 | --- | 3.069 | 0.95 | 0.337 | 68.8 | 76.0 | 1.1 | 0.269 |
| 4-1840 | 4-2340 | 0.750 | 246.5 | -35.1 | -10.59 | 1.191 | 51.9 | 0.707 | 1.810 | 98.9 | 190.5 | --- | 3.090 | 0.95 | 0.348 | 67.0 | 77.2 | 1.1 | 0.269 |
| 4-1840 | 4-2360 | 0.735 | 247.7 | -35.9 | -10.65 | 1.194 | 53.0 | 0.700 | 1.831 | 96.5 | 191.8 | --- | 3.112 | 0.95 | 0.358 | 65.5 | 78.5 | 1.2 | 0.269 |
| 4-1840 | 4-2380 | 0.719 | 248.9 | -36.7 | -10.72 | 1.196 | 54.0 | 0.692 | 1.852 | 94.1 | 193.2 | --- | 3.135 | 0.96 | 0.369 | 64.2 | 80.1 | 1.2 | 0.270 |
| 4-1840 | 4-2400 | 0.704 | 250.2 | -37.5 | -10.78 | 1.199 | 55.1 | 0.685 | 1.874 | 91.7 | 194.5 | --- | 3.157 | 0.97 | 0.379 | 63.0 | 81.8 | 1.2 | 0.271 |
| 4-1840 | 4-2420 | 0.688 | 251.5 | -38.3 | -10.85 | 1.201 | 56.1 | 0.678 | 1.895 | 89.2 | 195.8 | --- | 3.180 | 0.99 | 0.389 | 62.0 | 83.6 | 1.3 | 0.272 |
| 4-1840 | 4-2440 | 0.673 | 252.8 | -39.2 | -10.92 | 1.204 | 57.2 | 0.671 | 1.917 | 86.8 | 197.1 | --- | 3.203 | 1.01 | 0.399 | 61.1 | 85.6 | 1.3 | 0.273 |
| 4-1840 | 4-2460 | 0.658 | 254.2 | -40.0 | -10.99 | 1.206 | 58.2 | 0.665 | 1.938 | 84.3 | 198.4 | --- | 3.226 | 1.04 | 0.409 | 60.4 | 87.7 | 1.3 | 0.274 |
| 4-1840 | 4-2480 | 0.643 | 255.7 | -40.9 | -11.07 | 1.208 | 59.2 | 0.658 | 1.960 | 81.8 | 199.8 | --- | 3.249 | 1.08 | 0.418 | 59.7 | 89.9 | 1.4 | 0.275 |
| 4-1840 | 4-2500 | 0.629 | 257.2 | -41.9 | -11.15 | 1.211 | 60.3 | 0.652 | 1.981 | 79.2 | 201.1 | --- | 3.272 | 1.12 | 0.428 | 59.1 | 92.3 | 1.5 | 0.277 |
| 4-1840 | 4-2520 | 0.614 | 258.8 | -42.9 | -11.25 | 1.213 | 61.3 | 0.646 | 2.002 | 76.7 | 202.4 | --- | 3.295 | 1.17 | 0.437 | 58.6 | 94.7 | 1.6 | 0.278 |
| 4-1840 | 4-2540 | 0.599 | 260.5 | -43.9 | -11.35 | 1.215 | 62.4 | 0.640 | 2.023 | 74.1 | 203.7 | --- | 3.318 | 1.23 | 0.446 | 58.1 | 97.3 | 1.7 | 0.280 |
| 4-1840 | 4-2560 | 0.585 | 262.2 | -45.0 | -11.47 | 1.217 | 63.4 | 0.635 | 2.043 | 71.5 | 205.0 | --- | 3.341 | 1.31 | 0.455 | 57.7 | 99.9 | 1.8 | 0.282 |
| 4-1840 | 4-2580 | 0.571 | 264.1 | -46.1 | -11.60 | 1.219 | 64.4 | 0.630 | 2.064 | 68.8 | 206.4 | --- | 3.363 | 1.41 | 0.464 | 57.3 | 102.7 | 1.9 | 0.284 |
| 4-1840 | 4-2600 | 0.557 | 266.1 | -47.4 | -11.76 | 1.221 | 65.5 | 0.624 | 2.084 | 66.1 | 207.7 | --- | 3.385 | 1.53 | 0.473 | 57.0 | 105.5 | 2.1 | 0.286 |
| 4-1840 | 4-2620 | 0.544 | 268.3 | -48.7 | -11.95 | 1.223 | 66.6 | 0.619 | 2.104 | 63.4 | 209.0 | --- | 3.408 | 1.68 | 0.481 | 56.7 | 108.5 | 2.4 | 0.288 |
| 4-1840 | 4-2640 | 0.531 | 270.5 | -50.2 | -12.19 | 1.225 | 67.6 | 0.615 | 2.124 | 60.6 | 210.3 | --- | 3.430 | 1.89 | 0.490 | 56.5 | 111.5 | 2.7 | 0.290 |
| 4-1840 | 4-2660 | 0.519 | 273.0 | -51.9 | -12.50 | 1.226 | 68.7 | 0.610 | 2.144 | 57.8 | 211.7 | --- | 3.452 | 2.16 | 0.498 | 56.3 | 114.6 | 3.1 | 0.293 |
| 4-1840 | 4-2680 | 0.509 | 275.7 | -53.8 | -12.93 | 1.228 | 69.8 | 0.606 | 2.163 | 54.9 | 213.0 | --- | 3.474 | 2.55 | 0.506 | 56.1 | 117.8 | 3.6 | 0.296 |
| 4-1840 | 4-2700 | 0.501 | 278.5 | -56.2 | -13.55 | 1.230 | 70.9 | 0.602 | 2.182 | 52.0 | 214.3 | --- | 3.496 | 3.13 | 0.514 | 56.0 | 121.1 | 4.5 | 0.299 |
| 4-1840 | 4-2720 | 0.497 | 281.6 | -59.5 | -14.56 | 1.231 | 72.0 | 0.598 | 2.201 | 49.0 | 215.6 | --- | 3.518 | 4.10 | 0.522 | 55.9 | 124.5 | 5.9 | 0.303 |
| 4-1840 | 4-2740 | 0.506 | 284.4 | -64.6 | -16.53 | 1.233 | 73.2 | 0.595 | 2.220 | 45.9 | 216.9 | --- | 3.541 | 6.04 | 0.529 | 55.7 | 128.1 | 8.6 | 0.308 |
| 4-1840 | 4-2760 | 0.566 | 282.4 | -75.5 | -22.14 | 1.235 | 74.3 | 0.592 | 2.239 | 42.9 | 218.1 | --- | 3.563 | 11.61 | 0.537 | 55.6 | 132.7 | 16.0 | 0.324 |
| 4-1840 | 4-2800 | 0.354 | 294.7 | -15.1 | 1.86 | 1.237 | 76.8 | 0.586 | 2.275 | 36.2 | 220.6 | --- | 3.608 | -12.46 | 0.551 | 55.5 | 140.1 | -17.1 | 0.334 |
| 4-1840 | 4-2820 | 0.348 | 302.9 | -36.2 | -4.48 | 1.239 | 78.0 | 0.584 | 2.293 | 32.9 | 221.8 | --- | 3.632 | -6.15 | 0.558 | 55.4 | 142.6 | -8.8 | 0.323 |
| 4-1840 | 4-2840 | 0.347 | 309.6 | -43.1 | -6.60 | 1.240 | 79.2 | 0.582 | 2.311 | 29.5 | 223.0 | --- | 3.656 | -4.08 | 0.565 | 55.4 | 146.2 | -5.9 | 0.324 |
| 4-1850 | 4-2010 | 1.268 | 235.9 | -24.3 | -12.73 | 1.225 | 21.2 | 0.951 | 2.141 | 147.3 | 167.8 | --- | --- | -2.30 | 0.471 | 160.8 | 87.7 | -0.6 | 0.586 |
| 4-1850 | 4-2030 | 1.211 | 236.6 | -24.9 | -12.35 | 1.199 | 23.8 | 0.934 | 1.881 | 144.8 | 169.2 | --- | --- | -1.95 | 0.394 | 154.7 | 85.8 | -0.6 | 0.516 |
| 4-1850 | 4-2050 | 1.165 | 237.4 | -25.5 | -12.08 | 1.182 | 26.0 | 0.917 | 1.749 | 142.4 | 170.7 | --- | --- | -1.70 | 0.335 | 147.4 | 83.9 | -0.7 | 0.463 |
| 4-1850 | 4-2070 | 1.126 | 238.3 | -26.2 | -11.86 | 1.171 | 28.1 | 0.901 | 1.677 | 140.0 | 172.1 | --- | --- | -1.52 | 0.292 | 139.2 | 82.0 | -0.7 | 0.422 |
| 4-1850 | 4-2090 | 1.092 | 239.3 | -26.8 | -11.69 | 1.165 | 30.0 | 0.887 | 1.637 | 137.6 | 173.5 | --- | --- | -1.38 | 0.263 | 130.1 | 80.2 | -0.7 | 0.391 |
| 4-1850 | 4-2110 | 1.063 | 240.3 | -27.4 | -11.55 | 1.162 | 31.8 | 0.872 | 1.618 | 135.3 | 174.9 | --- | --- | -1.27 | 0.245 | 120.6 | 78.5 | -0.7 | 0.367 |
| 4-1850 | 4-2130 | 1.036 | 241.3 | -28.0 | -11.43 | 1.161 | 33.4 | 0.859 | 1.611 | 132.9 | 176.3 | --- | --- | -1.18 | 0.236 | 111.3 | 76.9 | -0.7 | 0.348 |
| 4-1850 | 4-2150 | 1.011 | 242.4 | -28.6 | -11.33 | 1.161 | 35.0 | 0.846 | 1.612 | 130.5 | 177.6 | --- | --- | -1.10 | 0.234 | 102.7 | 75.7 | -0.8 | 0.334 |
| 4-1850 | 4-2170 | 0.988 | 243.5 | -29.2 | -11.23 | 1.162 | 36.5 | 0.834 | 1.619 | 128.1 | 179.0 | --- | --- | -1.04 | 0.237 | 95.1 | 74.7 | -0.8 | 0.323 |
| 4-1850 | 4-2190 | 0.966 | 244.6 | -29.7 | -11.15 | 1.164 | 37.9 | 0.822 | 1.631 | 125.8 | 180.3 | --- | 2.971 | -0.99 | 0.245 | 88.6 | 74.0 | -0.8 | 0.314 |
| 4-1850 | 4-2210 | 0.946 | 245.7 | -30.3 | -11.08 | 1.167 | 39.3 | 0.811 | 1.645 | 123.4 | 181.6 | --- | 2.979 | -0.95 | 0.254 | 83.1 | 73.6 | -0.8 | 0.308 |
| 4-1850 | 4-2230 | 0.926 | 246.8 | -30.9 | -11.01 | 1.169 | 40.6 | 0.800 | 1.662 | 121.0 | 182.9 | --- | 2.992 | -0.91 | 0.265 | 78.5 | 73.5 | -0.8 | 0.303 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1850 | 4-2250 | 0.906 | 248.0 | -31.4 | -10.94 | 1.172 | 41.9 | 0.790 | 1.680 | 118.6 | 184.2 | --- | 3.007 | -0.89 | 0.277 | 74.8 | 73.7 | -0.8 | 0.299 |
| 4-1850 | 4-2270 | 0.887 | 249.2 | -32.0 | -10.88 | 1.175 | 43.2 | 0.780 | 1.700 | 116.2 | 185.5 | --- | 3.026 | -0.86 | 0.289 | 71.6 | 74.2 | -0.8 | 0.297 |
| 4-1850 | 4-2290 | 0.869 | 250.4 | -32.6 | -10.82 | 1.178 | 44.4 | 0.770 | 1.721 | 113.7 | 186.7 | --- | 3.045 | -0.84 | 0.301 | 69.0 | 74.9 | -0.8 | 0.295 |
| 4-1850 | 4-2310 | 0.850 | 251.6 | -33.1 | -10.77 | 1.181 | 45.6 | 0.760 | 1.742 | 111.3 | 188.0 | --- | 3.067 | -0.83 | 0.314 | 66.8 | 75.8 | -0.8 | 0.294 |
| 4-1850 | 4-2330 | 0.832 | 252.8 | -33.7 | -10.71 | 1.184 | 46.8 | 0.751 | 1.764 | 108.9 | 189.3 | --- | 3.089 | -0.82 | 0.326 | 64.9 | 76.9 | -0.8 | 0.293 |
| 4-1850 | 4-2350 | 0.815 | 254.0 | -34.3 | -10.66 | 1.187 | 48.0 | 0.742 | 1.786 | 106.4 | 190.5 | --- | 3.112 | -0.81 | 0.338 | 63.3 | 78.2 | -0.8 | 0.292 |
| 4-1850 | 4-2370 | 0.797 | 255.3 | -34.8 | -10.61 | 1.190 | 49.1 | 0.733 | 1.809 | 104.0 | 191.8 | --- | 3.135 | -0.81 | 0.350 | 62.0 | 79.7 | -0.9 | 0.292 |
| 4-1850 | 4-2390 | 0.780 | 256.6 | -35.4 | -10.55 | 1.193 | 50.3 | 0.725 | 1.831 | 101.5 | 193.1 | --- | 3.159 | -0.81 | 0.361 | 60.8 | 81.4 | -0.9 | 0.292 |
| 4-1850 | 4-2410 | 0.763 | 258.0 | -35.9 | -10.50 | 1.196 | 51.4 | 0.717 | 1.854 | 99.0 | 194.4 | --- | 3.183 | -0.81 | 0.372 | 59.8 | 83.2 | -0.9 | 0.292 |
| 4-1850 | 4-2430 | 0.746 | 259.3 | -36.5 | -10.45 | 1.198 | 52.5 | 0.709 | 1.877 | 96.6 | 195.6 | --- | 3.207 | -0.82 | 0.383 | 59.0 | 85.1 | -0.9 | 0.293 |
| 4-1850 | 4-2450 | 0.729 | 260.8 | -37.1 | -10.39 | 1.201 | 53.7 | 0.701 | 1.899 | 94.0 | 196.9 | --- | 3.231 | -0.83 | 0.394 | 58.2 | 87.2 | -0.9 | 0.293 |
| 4-1850 | 4-2470 | 0.712 | 262.2 | -37.6 | -10.33 | 1.203 | 54.8 | 0.694 | 1.922 | 91.5 | 198.2 | --- | 3.254 | -0.84 | 0.405 | 57.6 | 89.4 | -1.0 | 0.294 |
| 4-1850 | 4-2490 | 0.695 | 263.7 | -38.2 | -10.27 | 1.206 | 55.9 | 0.686 | 1.944 | 89.0 | 199.5 | --- | 3.278 | -0.86 | 0.415 | 57.1 | 91.7 | -1.0 | 0.295 |
| 4-1850 | 4-2510 | 0.678 | 265.3 | -38.7 | -10.21 | 1.208 | 57.0 | 0.679 | 1.966 | 86.4 | 200.8 | --- | 3.301 | -0.89 | 0.425 | 56.6 | 94.1 | -1.1 | 0.296 |
| 4-1850 | 4-2530 | 0.661 | 266.9 | -39.3 | -10.14 | 1.211 | 58.1 | 0.672 | 1.988 | 83.8 | 202.1 | --- | 3.325 | -0.92 | 0.435 | 56.2 | 96.6 | -1.1 | 0.297 |
| 4-1850 | 4-2550 | 0.644 | 268.6 | -39.9 | -10.07 | 1.213 | 59.2 | 0.666 | 2.010 | 81.2 | 203.4 | --- | 3.348 | -0.95 | 0.444 | 55.8 | 99.2 | -1.2 | 0.298 |
| 4-1850 | 4-2570 | 0.627 | 270.4 | -40.4 | -9.99 | 1.215 | 60.3 | 0.659 | 2.032 | 78.5 | 204.7 | --- | 3.371 | -1.00 | 0.454 | 55.5 | 101.9 | -1.3 | 0.299 |
| 4-1850 | 4-2590 | 0.610 | 272.3 | -40.9 | -9.89 | 1.217 | 61.4 | 0.653 | 2.053 | 75.8 | 206.0 | --- | 3.393 | -1.06 | 0.463 | 55.3 | 104.7 | -1.3 | 0.300 |
| 4-1850 | 4-2610 | 0.593 | 274.3 | -41.4 | -9.79 | 1.219 | 62.5 | 0.647 | 2.074 | 73.1 | 207.3 | --- | 3.416 | -1.13 | 0.472 | 55.1 | 107.6 | -1.4 | 0.302 |
| 4-1850 | 4-2630 | 0.576 | 276.4 | -41.9 | -9.67 | 1.221 | 63.6 | 0.641 | 2.095 | 70.3 | 208.6 | --- | 3.438 | -1.21 | 0.481 | 54.9 | 110.5 | -1.6 | 0.304 |
| 4-1850 | 4-2650 | 0.559 | 278.6 | -42.4 | -9.53 | 1.223 | 64.7 | 0.635 | 2.116 | 67.5 | 210.0 | --- | 3.460 | -1.32 | 0.490 | 54.8 | 113.6 | -1.7 | 0.305 |
| 4-1850 | 4-2670 | 0.542 | 280.9 | -42.7 | -9.35 | 1.225 | 65.8 | 0.630 | 2.137 | 64.7 | 211.3 | --- | 3.482 | -1.47 | 0.498 | 54.7 | 116.7 | -1.9 | 0.307 |
| 4-1850 | 4-2690 | 0.524 | 283.5 | -43.0 | -9.13 | 1.227 | 67.0 | 0.624 | 2.157 | 61.8 | 212.6 | --- | 3.504 | -1.66 | 0.507 | 54.6 | 119.9 | -2.2 | 0.309 |
| 4-1850 | 4-2710 | 0.506 | 286.1 | -43.0 | -8.84 | 1.229 | 68.1 | 0.620 | 2.177 | 58.8 | 213.9 | --- | 3.526 | -1.92 | 0.515 | 54.6 | 123.2 | -2.6 | 0.312 |
| 4-1850 | 4-2730 | 0.487 | 289.0 | -42.7 | -8.43 | 1.230 | 69.3 | 0.615 | 2.197 | 55.8 | 215.2 | --- | 3.548 | -2.29 | 0.523 | 54.5 | 126.6 | -3.1 | 0.314 |
| 4-1850 | 4-2750 | 0.467 | 292.0 | -41.9 | -7.80 | 1.232 | 70.5 | 0.610 | 2.217 | 52.8 | 216.5 | --- | 3.570 | -2.89 | 0.531 | 54.5 | 130.1 | -3.9 | 0.317 |
| 4-1850 | 4-2770 | 0.445 | 295.0 | -39.7 | -6.72 | 1.233 | 71.6 | 0.606 | 2.236 | 49.7 | 217.8 | --- | 3.591 | -3.94 | 0.538 | 54.5 | 133.7 | -5.4 | 0.321 |
| 4-1850 | 4-2790 | 0.417 | 297.6 | -33.6 | -4.34 | 1.235 | 72.8 | 0.602 | 2.255 | 46.5 | 219.1 | --- | 3.613 | -6.29 | 0.546 | 54.5 | 137.5 | -8.6 | 0.327 |
| 4-1850 | 4-2810 | 0.405 | 294.9 | -5.4 | 5.36 | 1.237 | 74.0 | 0.599 | 2.274 | 43.3 | 220.4 | --- | 3.636 | -15.95 | 0.553 | 54.5 | 143.3 | -20.3 | 0.356 |
| 4-1850 | 4-2830 | 0.760 | 186.3 | -87.4 | -35.44 | 1.238 | 75.4 | 0.595 | 2.293 | 39.7 | 221.6 | --- | 3.657 | 24.87 | 0.560 | 54.6 | 150.5 | 28.7 | 0.400 |
| 4-1850 | 4-2850 | 0.492 | 318.3 | -67.7 | -17.78 | 1.239 | 76.6 | 0.592 | 2.311 | 36.4 | 222.8 | --- | 3.681 | 7.25 | 0.566 | 54.6 | 148.9 | 9.9 | 0.338 |
| 4-1860 | 4-2020 | 1.381 | 240.5 | -25.1 | -21.08 | 1.216 | 13.8 | 0.978 | 2.048 | 159.1 | 172.4 | --- | --- | -11.07 | 0.447 | 166.9 | 85.5 | -1.8 | 0.620 |
| 4-1860 | 4-2040 | 1.318 | 241.6 | -25.7 | -18.57 | 1.190 | 16.8 | 0.966 | 1.810 | 155.7 | 172.9 | --- | --- | -8.65 | 0.364 | 160.9 | 83.7 | -1.9 | 0.549 |
| 4-1860 | 4-2060 | 1.267 | 242.7 | -26.3 | -16.96 | 1.173 | 19.4 | 0.952 | 1.690 | 152.6 | 173.6 | --- | --- | -7.13 | 0.302 | 153.4 | 81.9 | -1.9 | 0.496 |
| 4-1860 | 4-2080 | 1.224 | 243.9 | -26.9 | -15.83 | 1.163 | 21.8 | 0.939 | 1.625 | 149.7 | 174.4 | --- | --- | -6.09 | 0.256 | 144.4 | 80.2 | -2.0 | 0.455 |
| 4-1860 | 4-2100 | 1.187 | 245.1 | -27.4 | -14.99 | 1.157 | 24.0 | 0.926 | 1.591 | 146.9 | 175.4 | --- | --- | -5.33 | 0.225 | 133.8 | 78.5 | -2.0 | 0.423 |
| 4-1860 | 4-2120 | 1.154 | 246.3 | -28.0 | -14.34 | 1.154 | 26.0 | 0.912 | 1.575 | 144.2 | 176.4 | --- | --- | -4.77 | 0.208 | 122.4 | 77.1 | -2.1 | 0.399 |
| 4-1860 | 4-2140 | 1.124 | 247.6 | -28.5 | -13.81 | 1.154 | 27.9 | 0.899 | 1.571 | 141.6 | 177.5 | --- | --- | -4.33 | 0.198 | 111.0 | 75.9 | -2.1 | 0.380 |
| 4-1860 | 4-2160 | 1.097 | 248.8 | -29.0 | -13.37 | 1.154 | 29.6 | 0.887 | 1.575 | 139.0 | 178.6 | --- | --- | -3.98 | 0.199 | 100.6 | 74.9 | -2.1 | 0.365 |
| 4-1860 | 4-2180 | 1.071 | 250.1 | -29.5 | -12.99 | 1.156 | 31.3 | 0.874 | 1.584 | 136.4 | 179.8 | --- | --- | -3.70 | 0.206 | 91.7 | 74.2 | -2.2 | 0.354 |
| 4-1860 | 4-2200 | 1.047 | 251.3 | -30.0 | -12.67 | 1.158 | 32.9 | 0.862 | 1.598 | 133.8 | 180.9 | --- | 2.975 | -3.47 | 0.216 | 84.3 | 73.8 | -2.2 | 0.345 |
| 4-1860 | 4-2220 | 1.024 | 252.6 | -30.4 | -12.38 | 1.161 | 34.4 | 0.851 | 1.614 | 131.3 | 182.1 | --- | 2.987 | -3.28 | 0.229 | 78.4 | 73.7 | -2.2 | 0.338 |
| 4-1860 | 4-2240 | 1.002 | 253.8 | -30.9 | -12.12 | 1.164 | 35.9 | 0.839 | 1.632 | 128.8 | 183.2 | --- | 3.002 | -3.12 | 0.243 | 73.7 | 73.9 | -2.2 | 0.332 |
| 4-1860 | 4-2260 | 0.981 | 255.1 | -31.3 | -11.88 | 1.167 | 37.4 | 0.828 | 1.652 | 126.3 | 184.4 | --- | 3.020 | -2.99 | 0.257 | 69.9 | 74.3 | -2.2 | 0.328 |
| 4-1860 | 4-2280 | 0.960 | 256.4 | -31.8 | -11.66 | 1.170 | 38.7 | 0.818 | 1.673 | 123.8 | 185.6 | --- | 3.040 | -2.88 | 0.272 | 66.9 | 74.9 | -2.2 | 0.325 |
| 4-1860 | 4-2300 | 0.940 | 257.7 | -32.2 | -11.46 | 1.174 | 40.1 | 0.807 | 1.695 | 121.3 | 186.8 | --- | 3.062 | -2.79 | 0.286 | 64.4 | 75.8 | -2.2 | 0.322 |
| 4-1860 | 4-2320 | 0.920 | 258.9 | -32.6 | -11.27 | 1.177 | 41.4 | 0.797 | 1.717 | 118.8 | 188.0 | --- | 3.085 | -2.72 | 0.301 | 62.4 | 76.9 | -2.3 | 0.320 |
| 4-1860 | 4-2340 | 0.900 | 260.3 | -33.0 | -11.08 | 1.180 | 42.7 | 0.787 | 1.740 | 116.3 | 189.2 | --- | 3.109 | -2.66 | 0.314 | 60.7 | 78.2 | -2.3 | 0.319 |
| 4-1860 | 4-2360 | 0.881 | 261.6 | -33.4 | -10.91 | 1.183 | 44.0 | 0.777 | 1.763 | 113.8 | 190.4 | --- | 3.134 | -2.61 | 0.328 | 59.3 | 79.6 | -2.3 | 0.317 |
| 4-1860 | 4-2380 | 0.862 | 262.9 | -33.8 | -10.74 | 1.186 | 45.2 | 0.768 | 1.787 | 111.3 | 191.6 | --- | 3.158 | -2.58 | 0.341 | 58.1 | 81.2 | -2.4 | 0.317 |
| 4-1860 | 4-2400 | 0.843 | 264.3 | -34.2 | -10.57 | 1.190 | 46.5 | 0.758 | 1.810 | 108.7 | 192.8 | --- | 3.183 | -2.55 | 0.353 | 57.2 | 83.0 | -2.4 | 0.316 |
| 4-1860 | 4-2420 | 0.824 | 265.7 | -34.5 | -10.40 | 1.193 | 47.7 | 0.749 | 1.834 | 106.2 | 194.0 | --- | 3.208 | -2.54 | 0.366 | 56.4 | 84.9 | -2.5 | 0.316 |
| 4-1860 | 4-2440 | 0.806 | 267.1 | -34.9 | -10.23 | 1.195 | 48.9 | 0.741 | 1.858 | 103.7 | 195.3 | --- | 3.233 | -2.54 | 0.377 | 55.7 | 86.9 | -2.5 | 0.315 |
| 4-1860 | 4-2460 | 0.787 | 268.5 | -35.2 | -10.06 | 1.198 | 50.1 | 0.732 | 1.881 | 101.1 | 196.5 | --- | 3.258 | -2.55 | 0.389 | 55.1 | 89.0 | -2.6 | 0.315 |
| 4-1860 | 4-2480 | 0.769 | 270.0 | -35.5 | -9.89 | 1.201 | 51.3 | 0.724 | 1.904 | 98.6 | 197.8 | --- | 3.283 | -2.57 | 0.400 | 54.6 | 91.3 | -2.7 | 0.316 |
| 4-1860 | 4-2500 | 0.750 | 271.5 | -35.8 | -9.71 | 1.204 | 52.4 | 0.715 | 1.928 | 96.0 | 199.0 | --- | 3.307 | -2.61 | 0.411 | 54.2 | 93.6 | -2.8 | 0.316 |
| 4-1860 | 4-2520 | 0.732 | 273.0 | -36.1 | -9.53 | 1.206 | 53.6 | 0.707 | 1.951 | 93.4 | 200.3 | --- | 3.331 | -2.65 | 0.422 | 53.9 | 96.1 | -2.9 | 0.316 |
| 4-1860 | 4-2540 | 0.713 | 274.6 | -36.4 | -9.33 | 1.209 | 54.8 | 0.700 | 1.974 | 90.7 | 201.6 | --- | 3.355 | -2.72 | 0.432 | 53.6 | 98.7 | -3.0 | 0.317 |
| 4-1860 | 4-2560 | 0.695 | 276.3 | -36.6 | -9.13 | 1.211 | 55.9 | 0.692 | 1.997 | 88.1 | 202.9 | --- | 3.378 | -2.80 | 0.442 | 53.4 | 101.3 | -3.1 | 0.318 |
| 4-1860 | 4-2580 | 0.676 | 278.0 | -36.8 | -8.91 | 1.213 | 57.1 | 0.685 | 2.019 | 85.4 | 204.2 | --- | 3.402 | -2.90 | 0.452 | 53.2 | 104.1 | -3.3 | 0.318 |
| 4-1860 | 4-2600 | 0.657 | 279.8 | -36.9 | -8.67 | 1.216 | 58.3 | 0.678 | 2.041 | 82.7 | 205.5 | --- | 3.425 | -3.02 | 0.462 | 53.1 | 106.9 | -3.5 | 0.319 |
| 4-1860 | 4-2620 | 0.638 | 281.6 | -36.9 | -8.40 | 1.218 | 59.4 | 0.671 | 2.064 | 79.9 | 206.8 | --- | 3.447 | -3.17 | 0.471 | 53.0 | 109.8 | -3.7 | 0.320 |
| 4-1860 | 4-2640 | 0.619 | 283.5 | -36.9 | -8.10 | 1.220 | 60.6 | 0.664 | 2.086 | 77.2 | 208.1 | --- | 3.470 | -3.36 | 0.481 | 53.0 | 112.8 | -4.0 | 0.322 |
| 4-1860 | 4-2660 | 0.600 | 285.5 | -36.8 | -7.75 | 1.222 | 61.7 | 0.657 | 2.107 | 74.3 | 209.4 | --- | 3.492 | -3.60 | 0.490 | 52.9 | 115.9 | -4.4 | 0.323 |
| 4-1860 | 4-2680 | 0.581 | 287.6 | -36.5 | -7.35 | 1.224 | 62.9 | 0.651 | 2.129 | 71.5 | 210.8 | --- | 3.514 | -3.89 | 0.499 | 52.9 | 119.1 | -4.8 | 0.325 |
| 4-1860 | 4-2700 | 0.561 | 289.7 | -35.9 | -6.87 | 1.226 | 64.1 | 0.645 | 2.150 | 68.6 | 212.1 | --- | 3.536 | -4.27 | 0.507 | 52.9 | 122.3 | -5.3 | 0.327 |
| 4-1860 | 4-2720 | 0.540 | 292.0 | -35.1 | -6.27 | 1.228 | 65.3 | 0.639 | 2.171 | 65.6 | 213.4 | --- | 3.558 | -4.77 | 0.516 | 53.0 | 125.7 | -6.0 | 0.329 |
| 4-1860 | 4-2740 | 0.519 | 294.2 | -33.7 | -5.50 | 1.229 | 66.5 | 0.633 | 2.191 | 62.6 | 214.7 | --- | 3.579 | -5.43 | 0.524 | 53.0 | 129.2 | -6.9 | 0.332 |
| 4-1860 | 4-2760 | 0.498 | 296.4 | -31.6 | -4.46 | 1.231 | 67.7 | 0.628 | 2.212 | 59.6 | 216.0 | --- | 3.601 | -6.37 | 0.532 | 53.1 | 132.7 | -8.1 | 0.335 |
| 4-1860 | 4-2780 | 0.475 | 298.4 | -28.2 | -2.95 | 1.233 | 68.9 | 0.623 | 2.232 | 56.5 | 217.4 | --- | 3.622 | -7.77 | 0.540 | 53.2 | 136.5 | -9.9 | 0.340 |
| 4-1860 | 4-2800 | 0.454 | 299.9 | -22.1 | -0.56 | 1.234 | 70.1 | 0.618 | 2.252 | 53.3 | 218.6 | --- | 3.644 | -10.06 | 0.547 | 53.3 | 140.5 | -12.8 | 0.347 |
| 4-1860 | 4-2820 | 0.442 | 299.7 | -10.1 | 3.90 | 1.236 | 71.3 | 0.614 | 2.272 | 50.2 | 219.9 | --- | 3.666 | -14.42 | 0.554 | 53.4 | 145.2 | -17.8 | 0.362 |
| 4-1860 | 4-2840 | 0.505 | 292.4 | 16.0 | 15.05 | 1.237 | 72.5 | 0.610 | 2.291 | 47.1 | 221.1 | --- | 3.689 | -25.47 | 0.561 | 53.4 | 152.9 | -28.0 | 0.413 |
| 4-1870 | 4-2050 | 1.424 | 246.9 | -26.4 | -33.47 | 1.184 | 10.2 | 0.987 | 1.771 | 165.5 | 175.8 | --- | --- | -24.07 | 0.346 | 167.9 | 82.4 | -2.9 | 0.590 |
| 4-1870 | 4-2070 | 1.368 | 248.4 | -27.0 | -26.99 | 1.167 | 13.0 | 0.978 | 1.653 | 162.0 | 175.9 | --- | --- | -17.74 | 0.277 | 160.9 | 80.7 | -3.0 | 0.535 |
| 4-1870 | 4-2090 | 1.321 | 249.8 | -27.5 | -23.17 | 1.157 | 15.6 | 0.968 | 1.590 | 158.7 | 176.3 | --- | --- | -14.05 | 0.226 | 151.7 | 79.1 | -3.0 | 0.493 |
| 4-1870 | 4-2110 | 1.281 | 251.2 | -28.0 | -20.64 | 1.151 | 18.0 | 0.957 | 1.558 | 155.6 | 176.9 | --- | --- | -11.67 | 0.190 | 139.9 | 77.7 | -3.1 | 0.460 |
| 4-1870 | 4-2130 | 1.245 | 252.7 | -28.4 | -18.85 | 1.149 | 20.2 | 0.946 | 1.543 | 152.6 | 177.6 | --- | --- | -10.01 | 0.169 | 126.0 | 76.5 | -3.1 | 0.435 |
| 4-1870 | 4-2150 | 1.212 | 254.1 | -28.9 | -17.49 | 1.148 | 22.3 | 0.934 | 1.540 | 149.8 | 178.4 | --- | --- | -8.80 | 0.161 | 111.6 | 75.6 | -3.2 | 0.415 |
| 4-1870 | 4-2170 | 1.182 | 255.5 | -29.3 | -16.43 | 1.149 | 24.3 | 0.922 | 1.545 | 147.0 | 179.3 | --- | --- | -7.89 | 0.163 | 98.5 | 74.9 | -3.2 | 0.400 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1870 | 4-2190 | 1.154 | 256.9 | -29.7 | -15.56 | 1.151 | 26.1 | 0.911 | 1.555 | 144.3 | 180.2 | --- | 2.972 | -7.17 | 0.173 | 87.7 | 74.4 | -3.2 | 0.387 |
| 4-1870 | 4-2210 | 1.128 | 258.2 | -30.1 | -14.84 | 1.153 | 27.9 | 0.899 | 1.569 | 141.6 | 181.2 | --- | 2.980 | -6.60 | 0.188 | 79.3 | 74.3 | -3.2 | 0.378 |
| 4-1870 | 4-2230 | 1.103 | 259.6 | -30.4 | -14.22 | 1.156 | 29.6 | 0.888 | 1.586 | 138.9 | 182.2 | --- | 2.994 | -6.13 | 0.204 | 73.0 | 74.4 | -3.2 | 0.370 |
| 4-1870 | 4-2250 | 1.079 | 261.0 | -30.8 | -13.68 | 1.159 | 31.2 | 0.876 | 1.605 | 136.3 | 183.3 | --- | 3.012 | -5.75 | 0.221 | 68.1 | 74.7 | -3.2 | 0.364 |
| 4-1870 | 4-2270 | 1.056 | 262.3 | -31.1 | -13.20 | 1.163 | 32.8 | 0.865 | 1.626 | 133.7 | 184.4 | --- | 3.033 | -5.44 | 0.238 | 64.5 | 75.3 | -3.3 | 0.358 |
| 4-1870 | 4-2290 | 1.034 | 263.7 | -31.4 | -12.77 | 1.166 | 34.3 | 0.854 | 1.648 | 131.1 | 185.4 | --- | 3.055 | -5.18 | 0.255 | 61.6 | 76.2 | -3.3 | 0.354 |
| 4-1870 | 4-2310 | 1.012 | 265.0 | -31.7 | -12.38 | 1.170 | 35.7 | 0.843 | 1.670 | 128.5 | 186.5 | --- | 3.079 | -4.96 | 0.271 | 59.3 | 77.2 | -3.3 | 0.351 |
| 4-1870 | 4-2330 | 0.991 | 266.4 | -32.0 | -12.02 | 1.173 | 37.2 | 0.833 | 1.694 | 126.0 | 187.7 | --- | 3.104 | -4.78 | 0.287 | 57.6 | 78.4 | -3.3 | 0.348 |
| 4-1870 | 4-2350 | 0.969 | 267.8 | -32.2 | -11.68 | 1.177 | 38.6 | 0.822 | 1.717 | 123.4 | 188.8 | --- | 3.129 | -4.62 | 0.303 | 56.1 | 79.8 | -3.4 | 0.346 |
| 4-1870 | 4-2370 | 0.949 | 269.1 | -32.5 | -11.36 | 1.180 | 39.9 | 0.812 | 1.741 | 120.9 | 190.0 | --- | 3.155 | -4.50 | 0.318 | 55.0 | 81.3 | -3.4 | 0.344 |
| 4-1870 | 4-2390 | 0.928 | 270.5 | -32.7 | -11.05 | 1.184 | 41.3 | 0.802 | 1.765 | 118.3 | 191.1 | --- | 3.181 | -4.40 | 0.332 | 54.0 | 83.0 | -3.4 | 0.343 |
| 4-1870 | 4-2410 | 0.908 | 271.9 | -32.9 | -10.75 | 1.187 | 42.6 | 0.792 | 1.790 | 115.7 | 192.3 | --- | 3.207 | -4.32 | 0.345 | 53.3 | 84.9 | -3.5 | 0.342 |
| 4-1870 | 4-2430 | 0.888 | 273.3 | -33.1 | -10.47 | 1.190 | 43.9 | 0.782 | 1.814 | 113.2 | 193.5 | --- | 3.234 | -4.26 | 0.359 | 52.7 | 86.8 | -3.6 | 0.341 |
| 4-1870 | 4-2450 | 0.868 | 274.7 | -33.3 | -10.18 | 1.193 | 45.2 | 0.773 | 1.839 | 110.6 | 194.7 | --- | 3.260 | -4.23 | 0.371 | 52.2 | 88.9 | -3.6 | 0.340 |
| 4-1870 | 4-2470 | 0.848 | 276.1 | -33.5 | -9.90 | 1.196 | 46.4 | 0.764 | 1.863 | 108.0 | 195.9 | --- | 3.285 | -4.21 | 0.384 | 51.8 | 91.1 | -3.7 | 0.339 |
| 4-1870 | 4-2490 | 0.828 | 277.6 | -33.6 | -9.62 | 1.199 | 47.7 | 0.754 | 1.887 | 105.4 | 197.1 | --- | 3.311 | -4.21 | 0.396 | 51.5 | 93.4 | -3.8 | 0.339 |
| 4-1870 | 4-2510 | 0.808 | 279.1 | -33.7 | -9.34 | 1.202 | 48.9 | 0.746 | 1.911 | 102.8 | 198.4 | --- | 3.336 | -4.22 | 0.407 | 51.2 | 95.8 | -4.0 | 0.339 |
| 4-1870 | 4-2530 | 0.788 | 280.6 | -33.7 | -9.05 | 1.204 | 50.2 | 0.737 | 1.935 | 100.2 | 199.6 | --- | 3.361 | -4.26 | 0.419 | 51.0 | 98.3 | -4.1 | 0.339 |
| 4-1870 | 4-2550 | 0.769 | 282.2 | -33.8 | -8.75 | 1.207 | 51.4 | 0.728 | 1.959 | 97.5 | 200.9 | --- | 3.385 | -4.32 | 0.429 | 50.9 | 100.9 | -4.3 | 0.339 |
| 4-1870 | 4-2570 | 0.749 | 283.7 | -33.7 | -8.43 | 1.209 | 52.6 | 0.720 | 1.982 | 94.8 | 202.2 | --- | 3.410 | -4.40 | 0.440 | 50.8 | 103.6 | -4.4 | 0.339 |
| 4-1870 | 4-2590 | 0.729 | 285.3 | -33.7 | -8.10 | 1.212 | 53.8 | 0.712 | 2.006 | 92.1 | 203.5 | --- | 3.433 | -4.51 | 0.451 | 50.8 | 106.4 | -4.6 | 0.339 |
| 4-1870 | 4-2610 | 0.709 | 287.0 | -33.5 | -7.75 | 1.214 | 55.1 | 0.704 | 2.029 | 89.4 | 204.8 | --- | 3.457 | -4.65 | 0.461 | 50.8 | 109.3 | -4.9 | 0.340 |
| 4-1870 | 4-2630 | 0.689 | 288.7 | -33.3 | -7.37 | 1.216 | 56.3 | 0.696 | 2.052 | 86.6 | 206.1 | --- | 3.480 | -4.83 | 0.470 | 50.8 | 112.2 | -5.2 | 0.341 |
| 4-1870 | 4-2650 | 0.668 | 290.4 | -33.0 | -6.95 | 1.219 | 57.5 | 0.688 | 2.075 | 83.9 | 207.4 | --- | 3.503 | -5.05 | 0.480 | 50.8 | 115.3 | -5.5 | 0.342 |
| 4-1870 | 4-2670 | 0.648 | 292.2 | -32.5 | -6.49 | 1.221 | 58.7 | 0.681 | 2.097 | 81.0 | 208.7 | --- | 3.525 | -5.32 | 0.489 | 50.9 | 118.4 | -5.9 | 0.343 |
| 4-1870 | 4-2690 | 0.627 | 294.0 | -31.8 | -5.97 | 1.223 | 59.9 | 0.674 | 2.119 | 78.2 | 210.1 | --- | 3.547 | -5.65 | 0.499 | 51.0 | 121.6 | -6.4 | 0.344 |
| 4-1870 | 4-2710 | 0.606 | 295.8 | -31.0 | -5.36 | 1.225 | 61.1 | 0.667 | 2.141 | 75.2 | 211.4 | --- | 3.569 | -6.07 | 0.507 | 51.1 | 124.9 | -6.9 | 0.346 |
| 4-1870 | 4-2730 | 0.585 | 297.7 | -29.8 | -4.64 | 1.227 | 62.4 | 0.660 | 2.163 | 72.3 | 212.7 | --- | 3.591 | -6.61 | 0.516 | 51.3 | 128.3 | -7.7 | 0.348 |
| 4-1870 | 4-2750 | 0.564 | 299.5 | -28.2 | -3.77 | 1.229 | 63.6 | 0.653 | 2.185 | 69.3 | 214.1 | --- | 3.612 | -7.30 | 0.525 | 51.4 | 131.8 | -8.6 | 0.350 |
| 4-1870 | 4-2770 | 0.542 | 301.3 | -26.0 | -2.68 | 1.230 | 64.8 | 0.647 | 2.206 | 66.2 | 215.4 | --- | 3.634 | -8.22 | 0.533 | 51.6 | 135.4 | -9.7 | 0.353 |
| 4-1870 | 4-2790 | 0.521 | 302.8 | -22.8 | -1.25 | 1.232 | 66.1 | 0.641 | 2.227 | 63.2 | 216.7 | --- | 3.655 | -9.47 | 0.541 | 51.7 | 139.1 | -11.3 | 0.358 |
| 4-1870 | 4-2810 | 0.501 | 304.0 | -18.1 | 0.73 | 1.234 | 67.3 | 0.636 | 2.248 | 60.0 | 218.0 | --- | 3.676 | -11.28 | 0.548 | 51.9 | 143.1 | -13.4 | 0.364 |
| 4-1870 | 4-2830 | 0.487 | 304.3 | -10.7 | 3.69 | 1.235 | 68.6 | 0.630 | 2.268 | 56.9 | 219.3 | --- | 3.698 | -14.07 | 0.556 | 52.1 | 147.5 | -16.5 | 0.374 |
| 4-1870 | 4-2850 | 0.490 | 302.6 | 1.3 | 8.64 | 1.237 | 69.8 | 0.625 | 2.289 | 53.7 | 220.6 | --- | 3.720 | -18.85 | 0.563 | 52.2 | 152.6 | -21.4 | 0.394 |
| 4-1870 | 4-2870 | 0.563 | 294.9 | 20.5 | 18.50 | 1.239 | 71.0 | 0.621 | 2.309 | 50.6 | 221.8 | --- | 3.743 | -28.53 | 0.569 | 52.4 | 160.3 | -29.1 | 0.443 |
| 4-1880 | 4-2060 | 1.528 | 252.5 | -27.1 | -80.29 | 1.183 | 6.0 | 0.996 | 1.762 | 171.5 | 177.6 | --- | --- | -71.46 | 0.340 | 172.8 | 81.9 | -3.7 | 0.635 |
| 4-1880 | 4-2080 | 1.468 | 254.3 | -27.5 | -53.86 | 1.165 | 7.6 | 0.993 | 1.637 | 169.5 | 177.7 | --- | --- | -45.22 | 0.264 | 168.4 | 80.3 | -3.7 | 0.578 |
| 4-1880 | 4-2100 | 1.417 | 255.9 | -28.0 | -39.81 | 1.154 | 9.9 | 0.987 | 1.570 | 166.6 | 177.7 | --- | --- | -31.36 | 0.205 | 160.6 | 78.9 | -3.8 | 0.534 |
| 4-1880 | 4-2120 | 1.373 | 257.6 | -28.4 | -31.95 | 1.148 | 12.3 | 0.980 | 1.536 | 163.5 | 178.0 | --- | --- | -23.69 | 0.162 | 148.8 | 77.7 | -3.9 | 0.500 |
| 4-1880 | 4-2140 | 1.334 | 259.2 | -28.7 | -27.06 | 1.145 | 14.6 | 0.971 | 1.521 | 160.5 | 178.4 | --- | --- | -19.00 | 0.135 | 132.7 | 76.7 | -3.9 | 0.474 |
| 4-1880 | 4-2160 | 1.299 | 260.7 | -29.1 | -23.75 | 1.144 | 16.8 | 0.962 | 1.517 | 157.5 | 179.0 | --- | --- | -15.88 | 0.124 | 113.9 | 76.0 | -3.9 | 0.453 |
| 4-1880 | 4-2180 | 1.267 | 262.3 | -29.4 | -21.36 | 1.145 | 18.9 | 0.952 | 1.522 | 154.6 | 179.7 | --- | --- | -13.68 | 0.128 | 96.4 | 75.5 | -3.9 | 0.436 |
| 4-1880 | 4-2200 | 1.237 | 263.8 | -29.7 | -19.53 | 1.147 | 20.9 | 0.942 | 1.532 | 151.8 | 180.4 | --- | 2.974 | -12.05 | 0.141 | 82.8 | 75.2 | -4.0 | 0.423 |
| 4-1880 | 4-2220 | 1.209 | 265.3 | -30.0 | -18.09 | 1.149 | 22.8 | 0.931 | 1.546 | 149.0 | 181.3 | --- | 2.986 | -10.81 | 0.159 | 73.1 | 75.3 | -4.0 | 0.412 |
| 4-1880 | 4-2240 | 1.182 | 266.7 | -30.2 | -16.91 | 1.152 | 24.7 | 0.920 | 1.563 | 146.2 | 182.2 | --- | 3.002 | -9.83 | 0.179 | 66.4 | 75.6 | -4.0 | 0.403 |
| 4-1880 | 4-2260 | 1.157 | 268.2 | -30.4 | -15.92 | 1.156 | 26.4 | 0.910 | 1.582 | 143.5 | 183.1 | --- | 3.022 | -9.05 | 0.199 | 61.7 | 76.1 | -4.0 | 0.396 |
| 4-1880 | 4-2280 | 1.132 | 269.6 | -30.7 | -15.08 | 1.159 | 28.1 | 0.899 | 1.603 | 140.9 | 184.1 | --- | 3.044 | -8.42 | 0.219 | 58.2 | 76.8 | -4.0 | 0.390 |
| 4-1880 | 4-2300 | 1.108 | 271.1 | -30.8 | -14.34 | 1.163 | 29.7 | 0.888 | 1.625 | 138.2 | 185.1 | --- | 3.069 | -7.89 | 0.239 | 55.7 | 77.8 | -4.0 | 0.386 |
| 4-1880 | 4-2320 | 1.085 | 272.5 | -31.0 | -13.68 | 1.167 | 31.3 | 0.877 | 1.648 | 135.6 | 186.1 | --- | 3.094 | -7.46 | 0.257 | 53.7 | 78.9 | -4.0 | 0.381 |
| 4-1880 | 4-2340 | 1.062 | 273.9 | -31.2 | -13.09 | 1.170 | 32.8 | 0.867 | 1.672 | 133.0 | 187.2 | --- | 3.121 | -7.10 | 0.275 | 52.3 | 80.2 | -4.1 | 0.378 |
| 4-1880 | 4-2360 | 1.040 | 275.3 | -31.3 | -12.55 | 1.174 | 34.3 | 0.856 | 1.696 | 130.3 | 188.3 | --- | 3.148 | -6.80 | 0.291 | 51.2 | 81.7 | -4.1 | 0.375 |
| 4-1880 | 4-2380 | 1.017 | 276.7 | -31.4 | -12.05 | 1.178 | 35.8 | 0.846 | 1.721 | 127.7 | 189.4 | --- | 3.176 | -6.54 | 0.308 | 50.3 | 83.3 | -4.2 | 0.373 |
| 4-1880 | 4-2400 | 0.996 | 278.1 | -31.5 | -11.58 | 1.181 | 37.2 | 0.835 | 1.745 | 125.1 | 190.5 | --- | 3.203 | -6.33 | 0.323 | 49.6 | 85.1 | -4.2 | 0.370 |
| 4-1880 | 4-2420 | 0.974 | 279.5 | -31.6 | -11.13 | 1.184 | 38.6 | 0.825 | 1.770 | 122.6 | 191.6 | --- | 3.231 | -6.16 | 0.338 | 49.1 | 87.0 | -4.3 | 0.369 |
| 4-1880 | 4-2440 | 0.953 | 280.9 | -31.7 | -10.71 | 1.188 | 40.0 | 0.815 | 1.795 | 120.0 | 192.8 | --- | 3.258 | -6.02 | 0.352 | 48.7 | 89.0 | -4.3 | 0.367 |
| 4-1880 | 4-2460 | 0.932 | 282.3 | -31.7 | -10.30 | 1.191 | 41.4 | 0.805 | 1.820 | 117.3 | 193.9 | --- | 3.285 | -5.92 | 0.365 | 48.4 | 91.1 | -4.4 | 0.366 |
| 4-1880 | 4-2480 | 0.910 | 283.7 | -31.7 | -9.90 | 1.194 | 42.7 | 0.795 | 1.845 | 114.7 | 195.1 | --- | 3.312 | -5.84 | 0.378 | 48.2 | 93.4 | -4.5 | 0.365 |
| 4-1880 | 4-2500 | 0.889 | 285.1 | -31.7 | -9.51 | 1.197 | 44.1 | 0.786 | 1.870 | 112.1 | 196.3 | --- | 3.339 | -5.78 | 0.391 | 48.1 | 95.7 | -4.6 | 0.364 |
| 4-1880 | 4-2520 | 0.868 | 286.6 | -31.6 | -9.12 | 1.200 | 45.4 | 0.776 | 1.894 | 109.5 | 197.6 | --- | 3.365 | -5.76 | 0.403 | 48.0 | 98.2 | -4.8 | 0.363 |
| 4-1880 | 4-2540 | 0.847 | 288.0 | -31.5 | -8.72 | 1.203 | 46.7 | 0.767 | 1.919 | 106.8 | 198.8 | --- | 3.390 | -5.76 | 0.415 | 48.0 | 100.7 | -4.9 | 0.362 |
| 4-1880 | 4-2560 | 0.827 | 289.5 | -31.3 | -8.33 | 1.206 | 48.0 | 0.757 | 1.943 | 104.1 | 200.1 | --- | 3.416 | -5.78 | 0.427 | 48.0 | 103.3 | -5.1 | 0.362 |
| 4-1880 | 4-2580 | 0.806 | 291.0 | -31.1 | -7.92 | 1.208 | 49.3 | 0.748 | 1.968 | 101.4 | 201.3 | --- | 3.440 | -5.84 | 0.438 | 48.0 | 106.1 | -5.3 | 0.362 |
| 4-1880 | 4-2600 | 0.785 | 292.5 | -30.9 | -7.50 | 1.211 | 50.5 | 0.740 | 1.992 | 98.7 | 202.6 | --- | 3.465 | -5.93 | 0.449 | 48.1 | 108.9 | -5.5 | 0.362 |
| 4-1880 | 4-2620 | 0.763 | 294.1 | -30.5 | -7.06 | 1.213 | 51.8 | 0.731 | 2.016 | 96.0 | 203.9 | --- | 3.489 | -6.05 | 0.459 | 48.2 | 111.8 | -5.7 | 0.362 |
| 4-1880 | 4-2640 | 0.742 | 295.6 | -30.1 | -6.59 | 1.216 | 53.1 | 0.722 | 2.039 | 93.2 | 205.2 | --- | 3.512 | -6.21 | 0.469 | 48.4 | 114.7 | -6.0 | 0.362 |
| 4-1880 | 4-2660 | 0.721 | 297.2 | -29.6 | -6.09 | 1.218 | 54.3 | 0.714 | 2.063 | 90.4 | 206.5 | --- | 3.536 | -6.41 | 0.479 | 48.6 | 117.8 | -6.4 | 0.363 |
| 4-1880 | 4-2680 | 0.700 | 298.8 | -29.0 | -5.55 | 1.220 | 55.6 | 0.706 | 2.086 | 87.6 | 207.9 | --- | 3.558 | -6.67 | 0.489 | 48.7 | 120.9 | -6.7 | 0.363 |
| 4-1880 | 4-2700 | 0.678 | 300.4 | -28.2 | -4.95 | 1.222 | 56.9 | 0.698 | 2.109 | 84.7 | 209.2 | --- | 3.581 | -6.99 | 0.498 | 48.9 | 124.2 | -7.2 | 0.364 |
| 4-1880 | 4-2720 | 0.656 | 302.0 | -27.1 | -4.28 | 1.224 | 58.1 | 0.690 | 2.132 | 81.8 | 210.5 | --- | 3.603 | -7.39 | 0.507 | 49.2 | 127.5 | -7.8 | 0.365 |
| 4-1880 | 4-2740 | 0.635 | 303.6 | -25.9 | -3.52 | 1.226 | 59.4 | 0.682 | 2.154 | 78.8 | 211.9 | --- | 3.625 | -7.89 | 0.516 | 49.4 | 130.9 | -8.4 | 0.367 |
| 4-1880 | 4-2760 | 0.613 | 305.1 | -24.3 | -2.63 | 1.228 | 60.7 | 0.675 | 2.177 | 75.8 | 213.2 | --- | 3.646 | -8.52 | 0.525 | 49.6 | 134.4 | -9.2 | 0.369 |
| 4-1880 | 4-2780 | 0.591 | 306.6 | -22.2 | -1.57 | 1.230 | 62.0 | 0.668 | 2.199 | 72.8 | 214.6 | --- | 3.668 | -9.33 | 0.533 | 49.9 | 138.0 | -10.2 | 0.372 |
| 4-1880 | 4-2800 | 0.570 | 307.9 | -19.4 | -0.26 | 1.232 | 63.2 | 0.661 | 2.221 | 69.7 | 215.9 | --- | 3.689 | -10.39 | 0.541 | 50.1 | 141.8 | -11.5 | 0.375 |
| 4-1880 | 4-2820 | 0.550 | 309.0 | -15.7 | 1.42 | 1.234 | 64.5 | 0.655 | 2.242 | 66.5 | 217.2 | --- | 3.710 | -11.82 | 0.549 | 50.4 | 145.7 | -13.2 | 0.380 |
| 4-1880 | 4-2840 | 0.533 | 309.5 | -10.5 | 3.65 | 1.235 | 65.8 | 0.648 | 2.264 | 63.4 | 218.6 | --- | 3.732 | -13.81 | 0.557 | 50.6 | 149.9 | -15.4 | 0.387 |
| 4-1880 | 4-2860 | 0.525 | 309.0 | -3.1 | 6.84 | 1.237 | 67.1 | 0.643 | 2.285 | 60.2 | 219.8 | --- | 3.753 | -16.76 | 0.564 | 50.9 | 154.4 | -18.4 | 0.399 |
| 4-1880 | 4-2880 | 0.536 | 306.5 | 7.6 | 11.77 | 1.239 | 68.4 | 0.637 | 2.306 | 57.0 | 221.1 | --- | 3.775 | -21.44 | 0.570 | 51.1 | 159.8 | -22.8 | 0.420 |
| 4-1890 | 4-2110 | 1.511 | 262.3 | -28.2 | -82.97 | 1.153 | 6.6 | 0.994 | 1.565 | 171.1 | 178.5 | --- | --- | -75.24 | 0.198 | 166.7 | 79.4 | -4.4 | 0.579 |
| 4-1890 | 4-2130 | 1.464 | 264.1 | -28.5 | -59.40 | 1.146 | 7.7 | 0.992 | 1.526 | 169.7 | 178.8 | --- | --- | -51.90 | 0.146 | 158.7 | 78.3 | -4.4 | 0.543 |
| 4-1890 | 4-2150 | 1.422 | 265.9 | -28.8 | -44.86 | 1.143 | 9.6 | 0.988 | 1.507 | 167.3 | 179.0 | --- | --- | -37.59 | 0.109 | 143.1 | 77.5 | -4.4 | 0.515 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1890 | 4-2170 | 1.385 | 267.6 | -29.1 | -36.00 | 1.142 | 11.7 | 0.982 | 1.502 | 164.5 | 179.4 | --- | --- | -28.97 | 0.091 | 119.3 | 76.9 | -4.5 | 0.492 |
| 4-1890 | 4-2190 | 1.351 | 269.2 | -29.3 | -30.25 | 1.142 | 13.8 | 0.974 | 1.505 | 161.7 | 179.9 | --- | --- | -23.45 | 0.093 | 94.4 | 76.6 | -4.5 | 0.474 |
| 4-1890 | 4-2210 | 1.319 | 270.8 | -29.5 | -26.26 | 1.144 | 15.8 | 0.966 | 1.514 | 158.8 | 180.5 | --- | 2.977 | -19.70 | 0.110 | 76.4 | 76.5 | -4.5 | 0.460 |
| 4-1890 | 4-2230 | 1.289 | 272.4 | -29.6 | -23.34 | 1.147 | 17.8 | 0.957 | 1.528 | 156.0 | 181.2 | --- | 2.991 | -17.02 | 0.132 | 65.3 | 76.7 | -4.5 | 0.448 |
| 4-1890 | 4-2250 | 1.261 | 274.0 | -29.8 | -21.09 | 1.150 | 19.8 | 0.948 | 1.544 | 153.2 | 181.9 | --- | 3.009 | -15.01 | 0.156 | 58.4 | 77.1 | -4.5 | 0.438 |
| 4-1890 | 4-2270 | 1.234 | 275.5 | -29.9 | -19.30 | 1.153 | 21.6 | 0.939 | 1.563 | 150.5 | 182.8 | --- | 3.031 | -13.47 | 0.179 | 54.0 | 77.8 | -4.5 | 0.430 |
| 4-1890 | 4-2290 | 1.208 | 277.0 | -30.0 | -17.84 | 1.157 | 23.4 | 0.929 | 1.584 | 147.8 | 183.6 | --- | 3.055 | -12.26 | 0.202 | 51.1 | 78.6 | -4.5 | 0.423 |
| 4-1890 | 4-2310 | 1.182 | 278.5 | -30.1 | -16.61 | 1.160 | 25.1 | 0.919 | 1.606 | 145.1 | 184.6 | --- | 3.081 | -11.28 | 0.223 | 49.0 | 79.7 | -4.5 | 0.418 |
| 4-1890 | 4-2330 | 1.158 | 279.9 | -30.1 | -15.55 | 1.164 | 26.8 | 0.908 | 1.629 | 142.4 | 185.5 | --- | 3.109 | -10.49 | 0.243 | 47.6 | 80.9 | -4.5 | 0.413 |
| 4-1890 | 4-2350 | 1.134 | 281.3 | -30.2 | -14.62 | 1.168 | 28.5 | 0.898 | 1.653 | 139.7 | 186.5 | --- | 3.137 | -9.83 | 0.262 | 46.5 | 82.3 | -4.6 | 0.409 |
| 4-1890 | 4-2370 | 1.110 | 282.8 | -30.2 | -13.80 | 1.172 | 30.1 | 0.888 | 1.677 | 137.1 | 187.5 | --- | 3.166 | -9.29 | 0.281 | 45.8 | 83.8 | -4.6 | 0.405 |
| 4-1890 | 4-2390 | 1.087 | 284.2 | -30.2 | -13.06 | 1.175 | 31.6 | 0.877 | 1.702 | 134.5 | 188.6 | --- | 3.195 | -8.83 | 0.298 | 45.3 | 85.5 | -4.6 | 0.402 |
| 4-1890 | 4-2410 | 1.064 | 285.6 | -30.2 | -12.38 | 1.179 | 33.1 | 0.867 | 1.726 | 131.8 | 189.7 | --- | 3.224 | -8.45 | 0.314 | 44.9 | 87.3 | -4.7 | 0.399 |
| 4-1890 | 4-2430 | 1.041 | 287.0 | -30.1 | -11.75 | 1.183 | 34.6 | 0.857 | 1.752 | 129.2 | 190.8 | --- | 3.252 | -8.14 | 0.330 | 44.6 | 89.3 | -4.7 | 0.397 |
| 4-1890 | 4-2450 | 1.019 | 288.4 | -30.1 | -11.16 | 1.186 | 36.1 | 0.847 | 1.777 | 126.6 | 191.9 | --- | 3.281 | -7.87 | 0.345 | 44.5 | 91.3 | -4.8 | 0.394 |
| 4-1890 | 4-2470 | 0.996 | 289.8 | -30.0 | -10.60 | 1.189 | 37.5 | 0.836 | 1.802 | 123.9 | 193.0 | --- | 3.310 | -7.66 | 0.359 | 44.4 | 93.5 | -4.9 | 0.393 |
| 4-1890 | 4-2490 | 0.974 | 291.2 | -29.8 | -10.06 | 1.193 | 38.9 | 0.826 | 1.828 | 121.3 | 194.2 | --- | 3.338 | -7.48 | 0.373 | 44.4 | 95.8 | -5.0 | 0.391 |
| 4-1890 | 4-2510 | 0.952 | 292.6 | -29.7 | -9.55 | 1.196 | 40.4 | 0.816 | 1.853 | 118.6 | 195.4 | --- | 3.365 | -7.35 | 0.387 | 44.5 | 98.2 | -5.1 | 0.389 |
| 4-1890 | 4-2530 | 0.930 | 294.0 | -29.5 | -9.04 | 1.199 | 41.7 | 0.806 | 1.878 | 116.0 | 196.6 | --- | 3.392 | -7.25 | 0.399 | 44.6 | 100.7 | -5.2 | 0.388 |
| 4-1890 | 4-2550 | 0.908 | 295.4 | -29.2 | -8.55 | 1.202 | 43.1 | 0.797 | 1.903 | 113.3 | 197.8 | --- | 3.419 | -7.18 | 0.412 | 44.7 | 103.2 | -5.4 | 0.387 |
| 4-1890 | 4-2570 | 0.886 | 296.8 | -29.0 | -8.05 | 1.204 | 44.5 | 0.787 | 1.928 | 110.6 | 199.1 | --- | 3.445 | -7.15 | 0.424 | 44.9 | 105.9 | -5.5 | 0.386 |
| 4-1890 | 4-2590 | 0.864 | 298.2 | -28.6 | -7.55 | 1.207 | 45.8 | 0.777 | 1.953 | 107.9 | 200.3 | --- | 3.471 | -7.16 | 0.435 | 45.1 | 108.6 | -5.7 | 0.386 |
| 4-1890 | 4-2610 | 0.842 | 299.6 | -28.2 | -7.04 | 1.210 | 47.2 | 0.768 | 1.978 | 105.2 | 201.6 | --- | 3.496 | -7.20 | 0.447 | 45.3 | 111.4 | -5.9 | 0.385 |
| 4-1890 | 4-2630 | 0.820 | 301.1 | -27.8 | -6.52 | 1.212 | 48.5 | 0.759 | 2.002 | 102.4 | 202.9 | --- | 3.521 | -7.27 | 0.457 | 45.6 | 114.4 | -6.2 | 0.385 |
| 4-1890 | 4-2650 | 0.798 | 302.5 | -27.2 | -5.99 | 1.215 | 49.8 | 0.749 | 2.026 | 99.6 | 204.2 | --- | 3.545 | -7.39 | 0.468 | 45.8 | 117.4 | -6.4 | 0.384 |
| 4-1890 | 4-2670 | 0.776 | 303.9 | -26.6 | -5.42 | 1.217 | 51.1 | 0.740 | 2.051 | 96.8 | 205.5 | --- | 3.569 | -7.55 | 0.478 | 46.1 | 120.4 | -6.8 | 0.385 |
| 4-1890 | 4-2690 | 0.754 | 305.4 | -25.8 | -4.82 | 1.220 | 52.5 | 0.732 | 2.074 | 94.0 | 206.9 | --- | 3.592 | -7.77 | 0.488 | 46.4 | 123.6 | -7.1 | 0.385 |
| 4-1890 | 4-2710 | 0.732 | 306.8 | -24.9 | -4.17 | 1.222 | 53.8 | 0.723 | 2.098 | 91.1 | 208.2 | --- | 3.615 | -8.04 | 0.498 | 46.7 | 126.8 | -7.6 | 0.385 |
| 4-1890 | 4-2730 | 0.709 | 308.2 | -23.9 | -3.46 | 1.224 | 55.1 | 0.714 | 2.122 | 88.1 | 209.5 | --- | 3.637 | -8.38 | 0.507 | 47.1 | 130.2 | -8.1 | 0.386 |
| 4-1890 | 4-2750 | 0.687 | 309.7 | -22.6 | -2.68 | 1.226 | 56.4 | 0.706 | 2.145 | 85.2 | 210.9 | --- | 3.659 | -8.82 | 0.516 | 47.4 | 133.6 | -8.7 | 0.387 |
| 4-1890 | 4-2770 | 0.665 | 311.0 | -21.0 | -1.80 | 1.228 | 57.7 | 0.698 | 2.168 | 82.2 | 212.3 | --- | 3.681 | -9.36 | 0.525 | 47.7 | 137.1 | -9.4 | 0.389 |
| 4-1890 | 4-2790 | 0.643 | 312.3 | -19.1 | -0.78 | 1.230 | 59.0 | 0.690 | 2.191 | 79.1 | 213.6 | --- | 3.703 | -10.05 | 0.534 | 48.1 | 140.7 | -10.2 | 0.391 |
| 4-1890 | 4-2810 | 0.621 | 313.5 | -16.7 | 0.42 | 1.232 | 60.4 | 0.682 | 2.214 | 76.0 | 215.0 | --- | 3.724 | -10.92 | 0.542 | 48.4 | 144.5 | -11.3 | 0.393 |
| 4-1890 | 4-2830 | 0.601 | 314.4 | -13.7 | 1.87 | 1.234 | 61.7 | 0.675 | 2.236 | 72.9 | 216.3 | --- | 3.745 | -12.05 | 0.550 | 48.8 | 148.3 | -12.6 | 0.397 |
| 4-1890 | 4-2850 | 0.582 | 315.0 | -9.8 | 3.68 | 1.236 | 63.0 | 0.668 | 2.258 | 69.7 | 217.6 | --- | 3.766 | -13.54 | 0.557 | 49.1 | 152.4 | -14.2 | 0.402 |
| 4-1890 | 4-2870 | 0.568 | 315.1 | -4.6 | 6.03 | 1.237 | 64.3 | 0.661 | 2.280 | 66.5 | 219.0 | --- | 3.788 | -15.59 | 0.565 | 49.4 | 156.6 | -16.3 | 0.410 |
| 4-1890 | 4-2890 | 0.563 | 314.1 | 2.3 | 9.26 | 1.239 | 65.7 | 0.655 | 2.302 | 63.3 | 220.2 | --- | 3.809 | -18.51 | 0.571 | 49.8 | 161.3 | -19.2 | 0.421 |
| 4-1900 | 4-2160 | 1.508 | 272.7 | -28.7 | -85.27 | 1.143 | 6.9 | 0.993 | 1.504 | 170.8 | 179.3 | --- | --- | -78.83 | 0.098 | 151.2 | 78.8 | -4.8 | 0.557 |
| 4-1900 | 4-2180 | 1.469 | 274.5 | -28.8 | -63.63 | 1.141 | 7.8 | 0.992 | 1.495 | 169.7 | 179.6 | --- | --- | -57.46 | 0.067 | 128.3 | 78.4 | -4.8 | 0.533 |
| 4-1900 | 4-2200 | 1.433 | 276.3 | -28.9 | -48.83 | 1.142 | 9.3 | 0.988 | 1.495 | 167.7 | 180.0 | --- | --- | -42.94 | 0.063 | 92.7 | 78.2 | -4.8 | 0.514 |
| 4-1900 | 4-2220 | 1.400 | 278.0 | -29.0 | -39.21 | 1.143 | 11.2 | 0.983 | 1.503 | 165.2 | 180.4 | --- | 2.980 | -33.58 | 0.082 | 67.5 | 78.2 | -4.8 | 0.498 |
| 4-1900 | 4-2240 | 1.368 | 279.6 | -29.0 | -32.73 | 1.145 | 13.1 | 0.977 | 1.515 | 162.5 | 181.0 | --- | 2.994 | -27.38 | 0.108 | 55.1 | 78.5 | -4.8 | 0.485 |
| 4-1900 | 4-2260 | 1.339 | 281.2 | -29.1 | -28.15 | 1.148 | 15.0 | 0.970 | 1.530 | 159.8 | 181.6 | --- | 3.014 | -23.08 | 0.135 | 48.7 | 79.1 | -4.8 | 0.474 |
| 4-1900 | 4-2280 | 1.310 | 282.8 | -29.1 | -24.76 | 1.151 | 16.9 | 0.962 | 1.548 | 157.1 | 182.3 | --- | 3.038 | -19.96 | 0.161 | 45.1 | 79.8 | -4.8 | 0.465 |
| 4-1900 | 4-2300 | 1.283 | 284.3 | -29.1 | -22.13 | 1.155 | 18.8 | 0.954 | 1.568 | 154.4 | 183.1 | --- | 3.064 | -17.62 | 0.186 | 43.0 | 80.7 | -4.8 | 0.457 |
| 4-1900 | 4-2320 | 1.256 | 285.8 | -29.1 | -20.03 | 1.159 | 20.6 | 0.945 | 1.590 | 151.7 | 183.9 | --- | 3.092 | -15.81 | 0.209 | 41.7 | 81.9 | -4.8 | 0.451 |
| 4-1900 | 4-2340 | 1.231 | 287.3 | -29.0 | -18.31 | 1.163 | 22.3 | 0.936 | 1.612 | 149.0 | 184.8 | --- | 3.121 | -14.38 | 0.231 | 40.8 | 83.1 | -4.8 | 0.445 |
| 4-1900 | 4-2360 | 1.206 | 288.8 | -28.9 | -16.86 | 1.166 | 24.1 | 0.926 | 1.636 | 146.3 | 185.7 | --- | 3.151 | -13.23 | 0.251 | 40.3 | 84.6 | -4.9 | 0.440 |
| 4-1900 | 4-2380 | 1.181 | 290.2 | -28.9 | -15.61 | 1.170 | 25.7 | 0.917 | 1.660 | 143.7 | 186.7 | --- | 3.181 | -12.29 | 0.271 | 40.0 | 86.2 | -4.9 | 0.436 |
| 4-1900 | 4-2400 | 1.157 | 291.6 | -28.7 | -14.51 | 1.174 | 27.4 | 0.907 | 1.684 | 141.0 | 187.7 | --- | 3.212 | -11.51 | 0.289 | 39.9 | 87.9 | -4.9 | 0.432 |
| 4-1900 | 4-2420 | 1.133 | 293.0 | -28.6 | -13.54 | 1.178 | 29.0 | 0.897 | 1.709 | 138.3 | 188.7 | --- | 3.242 | -10.87 | 0.306 | 39.9 | 89.8 | -5.0 | 0.428 |
| 4-1900 | 4-2440 | 1.109 | 294.4 | -28.5 | -12.66 | 1.181 | 30.5 | 0.887 | 1.735 | 135.7 | 189.8 | --- | 3.273 | -10.33 | 0.323 | 39.9 | 91.8 | -5.0 | 0.425 |
| 4-1900 | 4-2460 | 1.085 | 295.8 | -28.3 | -11.86 | 1.185 | 32.1 | 0.877 | 1.760 | 133.0 | 190.9 | --- | 3.303 | -9.88 | 0.339 | 40.1 | 93.9 | -5.1 | 0.423 |
| 4-1900 | 4-2480 | 1.062 | 297.2 | -28.1 | -11.11 | 1.188 | 33.6 | 0.867 | 1.785 | 130.4 | 192.0 | --- | 3.332 | -9.50 | 0.354 | 40.2 | 96.1 | -5.2 | 0.420 |
| 4-1900 | 4-2500 | 1.039 | 298.5 | -27.8 | -10.41 | 1.191 | 35.1 | 0.856 | 1.811 | 127.7 | 193.1 | --- | 3.362 | -9.19 | 0.368 | 40.5 | 98.4 | -5.2 | 0.418 |
| 4-1900 | 4-2520 | 1.016 | 299.9 | -27.6 | -9.75 | 1.195 | 36.6 | 0.846 | 1.836 | 125.1 | 194.3 | --- | 3.391 | -8.94 | 0.382 | 40.7 | 100.8 | -5.3 | 0.416 |
| 4-1900 | 4-2540 | 0.993 | 301.2 | -27.3 | -9.12 | 1.198 | 38.0 | 0.836 | 1.862 | 122.4 | 195.5 | --- | 3.419 | -8.73 | 0.395 | 41.0 | 103.3 | -5.5 | 0.414 |
| 4-1900 | 4-2560 | 0.970 | 302.6 | -26.9 | -8.50 | 1.201 | 39.5 | 0.826 | 1.887 | 119.7 | 196.7 | --- | 3.447 | -8.57 | 0.408 | 41.3 | 105.9 | -5.6 | 0.413 |
| 4-1900 | 4-2580 | 0.947 | 303.9 | -26.5 | -7.90 | 1.204 | 40.9 | 0.816 | 1.913 | 117.0 | 197.9 | --- | 3.474 | -8.46 | 0.421 | 41.7 | 108.5 | -5.7 | 0.411 |
| 4-1900 | 4-2600 | 0.924 | 305.3 | -26.1 | -7.31 | 1.207 | 42.3 | 0.806 | 1.938 | 114.2 | 199.2 | --- | 3.501 | -8.39 | 0.433 | 42.0 | 111.3 | -5.9 | 0.410 |
| 4-1900 | 4-2620 | 0.902 | 306.6 | -25.6 | -6.71 | 1.209 | 43.7 | 0.796 | 1.963 | 111.5 | 200.4 | --- | 3.527 | -8.35 | 0.444 | 42.4 | 114.1 | -6.1 | 0.409 |
| 4-1900 | 4-2640 | 0.879 | 308.0 | -25.0 | -6.12 | 1.212 | 45.1 | 0.787 | 1.988 | 108.7 | 201.7 | --- | 3.552 | -8.36 | 0.456 | 42.8 | 117.1 | -6.3 | 0.408 |
| 4-1900 | 4-2660 | 0.856 | 309.3 | -24.4 | -5.51 | 1.215 | 46.5 | 0.777 | 2.013 | 105.9 | 203.0 | --- | 3.577 | -8.42 | 0.467 | 43.2 | 120.1 | -6.6 | 0.408 |
| 4-1900 | 4-2680 | 0.833 | 310.6 | -23.7 | -4.88 | 1.217 | 47.9 | 0.767 | 2.038 | 103.1 | 204.4 | --- | 3.602 | -8.52 | 0.477 | 43.6 | 123.2 | -6.9 | 0.407 |
| 4-1900 | 4-2700 | 0.810 | 312.0 | -22.9 | -4.23 | 1.219 | 49.2 | 0.758 | 2.062 | 100.2 | 205.7 | --- | 3.625 | -8.67 | 0.487 | 44.0 | 126.3 | -7.2 | 0.407 |
| 4-1900 | 4-2720 | 0.787 | 313.3 | -21.9 | -3.55 | 1.222 | 50.6 | 0.749 | 2.087 | 97.3 | 207.0 | --- | 3.649 | -8.88 | 0.497 | 44.4 | 129.6 | -7.6 | 0.407 |
| 4-1900 | 4-2740 | 0.764 | 314.6 | -20.9 | -2.81 | 1.224 | 52.0 | 0.739 | 2.111 | 94.4 | 208.4 | --- | 3.672 | -9.15 | 0.507 | 44.8 | 132.9 | -8.0 | 0.407 |
| 4-1900 | 4-2760 | 0.741 | 315.9 | -19.6 | -2.02 | 1.226 | 53.4 | 0.730 | 2.135 | 91.4 | 209.8 | --- | 3.694 | -9.50 | 0.516 | 45.3 | 136.4 | -8.5 | 0.408 |
| 4-1900 | 4-2780 | 0.718 | 317.1 | -18.1 | -1.15 | 1.228 | 54.7 | 0.722 | 2.159 | 88.4 | 211.1 | --- | 3.716 | -9.94 | 0.525 | 45.7 | 139.9 | -9.1 | 0.409 |
| 4-1900 | 4-2800 | 0.696 | 318.2 | -16.4 | -0.18 | 1.230 | 56.1 | 0.713 | 2.182 | 85.4 | 212.5 | --- | 3.738 | -10.50 | 0.534 | 46.1 | 143.5 | -9.8 | 0.410 |
| 4-1900 | 4-2820 | 0.674 | 319.3 | -14.3 | 0.93 | 1.232 | 57.5 | 0.705 | 2.206 | 82.3 | 213.9 | --- | 3.760 | -11.20 | 0.542 | 46.6 | 147.2 | -10.7 | 0.412 |
| 4-1900 | 4-2840 | 0.652 | 320.2 | -11.8 | 2.21 | 1.234 | 58.8 | 0.697 | 2.229 | 79.2 | 215.2 | --- | 3.781 | -12.09 | 0.550 | 47.0 | 151.0 | -11.7 | 0.414 |
| 4-1900 | 4-2860 | 0.632 | 320.9 | -8.6 | 3.74 | 1.236 | 60.2 | 0.689 | 2.252 | 76.0 | 216.6 | --- | 3.802 | -13.23 | 0.558 | 47.4 | 155.0 | -13.0 | 0.418 |
| 4-1900 | 4-2880 | 0.615 | 321.2 | -4.7 | 5.62 | 1.238 | 61.6 | 0.681 | 2.274 | 72.8 | 217.9 | --- | 3.823 | -14.73 | 0.565 | 47.9 | 159.1 | -14.6 | 0.423 |
| 4-1900 | 4-2900 | 0.602 | 320.9 | 0.3 | 8.00 | 1.240 | 62.9 | 0.674 | 2.297 | 69.5 | 219.2 | --- | 3.844 | -16.74 | 0.572 | 48.3 | 163.4 | -16.6 | 0.430 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEI I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2080 | 4-2320 | 0.899 | 307.4 | 5.8 | 19.68 | 1.358 | 126.7 | 0.887 | 5.403 | 280.9 | 493.7 | 0.610 | --- | -15.39 | 0.698 | 148.9 | 171.9 | -8.5 | 0.649 |
| 4-2080 | 4-2340 | 0.832 | 306.7 | 5.4 | 18.03 | 1.323 | 124.7 | 0.824 | 3.576 | 281.7 | 498.1 | 0.630 | --- | -14.03 | 0.628 | 144.9 | 173.1 | -8.8 | 0.572 |
| 4-2080 | 4-2360 | 0.778 | 306.2 | 5.0 | 16.63 | 1.296 | 122.9 | 0.773 | 2.853 | 282.4 | 502.4 | 0.648 | --- | -12.93 | 0.569 | 140.6 | 173.9 | -9.2 | 0.506 |
| 4-2080 | 4-2380 | 0.734 | 305.7 | 4.5 | 15.42 | 1.275 | 121.5 | 0.732 | 2.474 | 283.1 | 506.7 | 0.663 | --- | -12.03 | 0.521 | 136.0 | 174.4 | -9.7 | 0.449 |
| 4-2080 | 4-2400 | 0.698 | 305.3 | 3.9 | 14.36 | 1.259 | 120.3 | 0.699 | 2.246 | 283.6 | 511.0 | 0.675 | --- | -11.29 | 0.482 | 131.1 | 174.5 | -10.2 | 0.401 |
| 4-2080 | 4-2420 | 0.669 | 305.0 | 3.2 | 13.42 | 1.246 | 119.3 | 0.673 | 2.098 | 284.1 | 515.1 | 0.685 | --- | -10.67 | 0.450 | 126.1 | 174.1 | -10.8 | 0.360 |
| 4-2080 | 4-2440 | 0.646 | 304.8 | 2.4 | 12.56 | 1.237 | 118.6 | 0.653 | 1.997 | 284.4 | 519.1 | 0.693 | --- | -10.15 | 0.424 | 120.9 | 173.1 | -11.4 | 0.325 |
| 4-2080 | 4-2460 | 0.628 | 304.7 | 1.6 | 11.77 | 1.229 | 118.0 | 0.638 | 1.926 | 284.5 | 523.0 | 0.698 | --- | -9.72 | 0.405 | 115.6 | 171.6 | -12.0 | 0.296 |
| 4-2080 | 4-2480 | 0.615 | 304.8 | 0.7 | 11.04 | 1.223 | 117.7 | 0.626 | 1.875 | 284.5 | 526.7 | 0.701 | --- | -9.36 | 0.390 | 110.2 | 169.5 | -12.7 | 0.272 |
| 4-2080 | 4-2500 | 0.605 | 304.9 | -0.3 | 10.36 | 1.219 | 117.5 | 0.618 | 1.838 | 284.2 | 530.3 | 0.701 | --- | -9.06 | 0.379 | 105.0 | 166.9 | -13.2 | 0.253 |
| 4-2080 | 4-2520 | 0.599 | 305.2 | -1.3 | 9.71 | 1.216 | 117.5 | 0.614 | 1.812 | 283.8 | 533.7 | 0.700 | --- | -8.82 | 0.372 | 99.8 | 163.8 | -13.6 | 0.239 |
| 4-2080 | 4-2540 | 0.597 | 305.7 | -2.4 | 9.08 | 1.213 | 117.6 | 0.612 | 1.794 | 283.2 | 536.9 | 0.697 | --- | -8.62 | 0.369 | 94.8 | 160.4 | -13.9 | 0.229 |
| 4-2080 | 4-2560 | 0.598 | 306.2 | -3.5 | 8.48 | 1.212 | 117.9 | 0.612 | 1.781 | 282.3 | 540.0 | 0.691 | --- | -8.47 | 0.368 | 90.1 | 156.9 | -14.0 | 0.224 |
| 4-2080 | 4-2580 | 0.602 | 306.9 | -4.6 | 7.89 | 1.211 | 118.3 | 0.615 | 1.773 | 281.2 | 542.8 | 0.683 | 2.863 | -8.37 | 0.369 | 85.5 | 153.6 | -13.8 | 0.224 |
| 4-2080 | 4-2600 | 0.609 | 307.7 | -5.8 | 7.30 | 1.210 | 118.9 | 0.619 | 1.769 | 279.9 | 545.5 | 0.673 | 2.865 | -8.30 | 0.372 | 81.2 | 150.6 | -13.5 | 0.227 |
| 4-2080 | 4-2620 | 0.619 | 308.7 | -6.9 | 6.71 | 1.210 | 119.6 | 0.626 | 1.768 | 278.4 | 548.0 | 0.661 | 2.875 | -8.28 | 0.376 | 77.1 | 148.3 | -13.1 | 0.233 |
| 4-2080 | 4-2640 | 0.632 | 309.7 | -8.0 | 6.12 | 1.210 | 120.4 | 0.635 | 1.770 | 276.6 | 550.2 | 0.647 | 2.893 | -8.29 | 0.381 | 73.3 | 146.7 | -12.5 | 0.243 |
| 4-2080 | 4-2660 | 0.648 | 311.0 | -9.0 | 5.52 | 1.211 | 121.5 | 0.645 | 1.773 | 274.5 | 552.3 | 0.630 | 2.917 | -8.35 | 0.388 | 69.6 | 145.7 | -11.9 | 0.255 |
| 4-2080 | 4-2680 | 0.667 | 312.3 | -10.0 | 4.89 | 1.211 | 122.6 | 0.657 | 1.778 | 272.3 | 554.2 | 0.610 | 2.947 | -8.46 | 0.395 | 66.1 | 145.4 | -11.3 | 0.270 |
| 4-2080 | 4-2700 | 0.689 | 313.8 | -10.9 | 4.25 | 1.212 | 123.9 | 0.671 | 1.785 | 269.7 | 555.8 | 0.588 | 2.982 | -8.62 | 0.403 | 62.7 | 145.9 | -10.8 | 0.287 |
| 4-2080 | 4-2720 | 0.715 | 315.4 | -11.8 | 3.56 | 1.213 | 125.4 | 0.686 | 1.793 | 266.9 | 557.3 | 0.563 | 3.024 | -8.83 | 0.411 | 59.4 | 146.9 | -10.2 | 0.306 |
| 4-2080 | 4-2740 | 0.744 | 317.1 | -12.6 | 2.83 | 1.214 | 127.1 | 0.703 | 1.802 | 263.8 | 558.4 | 0.534 | 3.070 | -9.11 | 0.419 | 56.2 | 148.4 | -9.7 | 0.327 |
| 4-2080 | 4-2760 | 0.778 | 319.0 | -13.3 | 2.03 | 1.216 | 129.0 | 0.722 | 1.813 | 260.4 | 559.4 | 0.503 | 3.122 | -9.47 | 0.428 | 53.0 | 150.5 | -9.3 | 0.350 |
| 4-2080 | 4-2780 | 0.815 | 321.0 | -13.9 | 1.16 | 1.217 | 131.1 | 0.743 | 1.824 | 256.7 | 560.0 | 0.468 | 3.179 | -9.93 | 0.437 | 49.8 | 153.0 | -8.8 | 0.374 |
| 4-2080 | 4-2800 | 0.856 | 323.2 | -14.4 | 0.18 | 1.219 | 133.4 | 0.766 | 1.836 | 252.6 | 560.4 | 0.430 | 3.242 | -10.50 | 0.446 | 46.6 | 156.0 | -8.5 | 0.401 |
| 4-2090 | 4-2350 | 0.837 | 313.2 | 14.7 | 22.54 | 1.326 | 122.2 | 0.819 | 3.722 | 287.1 | 495.8 | 0.673 | --- | -19.71 | 0.637 | 144.1 | 175.1 | -12.5 | 0.582 |
| 4-2090 | 4-2370 | 0.773 | 312.3 | 13.4 | 20.19 | 1.299 | 120.5 | 0.765 | 2.941 | 288.0 | 500.2 | 0.692 | --- | -17.68 | 0.579 | 139.9 | 176.2 | -12.7 | 0.515 |
| 4-2090 | 4-2390 | 0.722 | 311.5 | 12.2 | 18.25 | 1.278 | 119.0 | 0.721 | 2.537 | 288.9 | 504.6 | 0.707 | --- | -16.07 | 0.531 | 135.4 | 177.0 | -13.1 | 0.457 |
| 4-2090 | 4-2410 | 0.680 | 311.0 | 11.0 | 16.61 | 1.261 | 117.7 | 0.686 | 2.296 | 289.6 | 509.0 | 0.720 | --- | -14.78 | 0.493 | 130.7 | 177.3 | -13.5 | 0.408 |
| 4-2090 | 4-2430 | 0.646 | 310.6 | 9.7 | 15.21 | 1.249 | 116.7 | 0.659 | 2.140 | 290.2 | 513.2 | 0.730 | --- | -13.72 | 0.461 | 125.8 | 177.2 | -14.0 | 0.366 |
| 4-2090 | 4-2450 | 0.619 | 310.3 | 8.4 | 13.97 | 1.239 | 116.0 | 0.637 | 2.034 | 290.7 | 517.4 | 0.738 | --- | -12.84 | 0.436 | 120.7 | 176.6 | -14.6 | 0.330 |
| 4-2090 | 4-2470 | 0.597 | 310.1 | 7.1 | 12.88 | 1.231 | 115.4 | 0.620 | 1.959 | 290.9 | 521.4 | 0.744 | --- | -12.12 | 0.417 | 115.6 | 175.4 | -15.2 | 0.300 |
| 4-2090 | 4-2490 | 0.580 | 310.1 | 5.7 | 11.88 | 1.225 | 115.0 | 0.607 | 1.905 | 291.0 | 525.3 | 0.748 | --- | -11.51 | 0.402 | 110.5 | 173.6 | -15.9 | 0.275 |
| 4-2090 | 4-2510 | 0.567 | 310.3 | 4.3 | 10.97 | 1.221 | 114.7 | 0.598 | 1.866 | 291.0 | 529.0 | 0.750 | --- | -11.00 | 0.391 | 105.5 | 171.3 | -16.4 | 0.254 |
| 4-2090 | 4-2530 | 0.559 | 310.6 | 2.9 | 10.13 | 1.217 | 114.6 | 0.592 | 1.838 | 290.7 | 532.5 | 0.750 | --- | -10.58 | 0.385 | 100.6 | 168.4 | -16.9 | 0.239 |
| 4-2090 | 4-2550 | 0.553 | 311.0 | 1.5 | 9.34 | 1.215 | 114.7 | 0.589 | 1.818 | 290.2 | 535.9 | 0.747 | --- | -10.23 | 0.381 | 95.9 | 165.2 | -17.2 | 0.228 |
| 4-2090 | 4-2570 | 0.552 | 311.6 | 0.0 | 8.59 | 1.213 | 114.9 | 0.588 | 1.804 | 289.5 | 539.1 | 0.743 | --- | -9.95 | 0.379 | 91.3 | 161.8 | -17.2 | 0.221 |
| 4-2090 | 4-2590 | 0.553 | 312.3 | -1.4 | 7.87 | 1.212 | 115.2 | 0.589 | 1.795 | 288.5 | 542.1 | 0.737 | 2.854 | -9.72 | 0.380 | 87.0 | 158.4 | -17.1 | 0.218 |
| 4-2090 | 4-2610 | 0.557 | 313.1 | -2.8 | 7.17 | 1.212 | 115.7 | 0.593 | 1.790 | 287.3 | 544.9 | 0.729 | 2.852 | -9.54 | 0.383 | 83.0 | 155.4 | -16.7 | 0.219 |
| 4-2090 | 4-2630 | 0.565 | 314.1 | -4.2 | 6.49 | 1.211 | 116.3 | 0.598 | 1.789 | 285.9 | 547.5 | 0.719 | 2.858 | -9.42 | 0.387 | 79.1 | 152.8 | -16.1 | 0.224 |
| 4-2090 | 4-2650 | 0.575 | 315.3 | -5.5 | 5.81 | 1.211 | 117.0 | 0.605 | 1.789 | 284.3 | 550.0 | 0.707 | 2.872 | -9.34 | 0.392 | 75.5 | 150.9 | -15.4 | 0.231 |
| 4-2090 | 4-2670 | 0.588 | 316.5 | -6.8 | 5.13 | 1.212 | 117.9 | 0.614 | 1.792 | 282.4 | 552.2 | 0.693 | 2.892 | -9.32 | 0.398 | 72.1 | 149.7 | -14.7 | 0.242 |
| 4-2090 | 4-2690 | 0.604 | 317.9 | -8.0 | 4.45 | 1.212 | 118.9 | 0.624 | 1.797 | 280.3 | 554.2 | 0.676 | 2.918 | -9.34 | 0.405 | 68.8 | 149.1 | -13.9 | 0.254 |
| 4-2090 | 4-2710 | 0.623 | 319.5 | -9.1 | 3.75 | 1.213 | 120.1 | 0.636 | 1.803 | 278.0 | 556.1 | 0.657 | 2.949 | -9.41 | 0.412 | 65.6 | 149.2 | -13.2 | 0.269 |
| 4-2090 | 4-2730 | 0.646 | 321.1 | -10.1 | 3.03 | 1.214 | 121.4 | 0.649 | 1.810 | 275.3 | 557.7 | 0.635 | 2.986 | -9.54 | 0.420 | 62.6 | 149.9 | -12.5 | 0.286 |
| 4-2090 | 4-2750 | 0.671 | 322.9 | -11.0 | 2.27 | 1.215 | 122.9 | 0.665 | 1.819 | 272.4 | 559.1 | 0.610 | 3.028 | -9.73 | 0.428 | 59.6 | 151.2 | -11.8 | 0.304 |
| 4-2090 | 4-2770 | 0.700 | 324.8 | -11.8 | 1.47 | 1.216 | 124.5 | 0.682 | 1.829 | 269.3 | 560.3 | 0.582 | 3.075 | -9.99 | 0.436 | 56.7 | 153.0 | -11.2 | 0.325 |
| 4-2090 | 4-2790 | 0.733 | 326.8 | -12.5 | 0.62 | 1.218 | 126.4 | 0.701 | 1.839 | 265.8 | 561.3 | 0.551 | 3.128 | -10.33 | 0.444 | 53.8 | 155.3 | -10.7 | 0.347 |
| 4-2090 | 4-2810 | 0.770 | 328.9 | -13.0 | -0.32 | 1.219 | 128.4 | 0.721 | 1.851 | 262.1 | 561.9 | 0.516 | 3.185 | -10.76 | 0.453 | 50.9 | 158.0 | -10.2 | 0.371 |
| 4-2100 | 4-2360 | 0.891 | 320.2 | 27.9 | 30.41 | 1.327 | 119.9 | 0.814 | 3.842 | 292.4 | 493.7 | 0.715 | --- | -28.72 | 0.644 | 143.4 | 175.7 | -17.8 | 0.605 |
| 4-2100 | 4-2380 | 0.803 | 318.4 | 25.2 | 26.11 | 1.300 | 118.0 | 0.757 | 3.014 | 293.6 | 498.3 | 0.734 | --- | -24.76 | 0.587 | 139.2 | 177.4 | -17.6 | 0.532 |
| 4-2100 | 4-2400 | 0.734 | 317.1 | 22.7 | 22.79 | 1.279 | 116.5 | 0.711 | 2.591 | 294.7 | 502.8 | 0.750 | --- | -21.78 | 0.540 | 134.7 | 178.7 | -17.6 | 0.471 |
| 4-2100 | 4-2420 | 0.679 | 316.1 | 20.4 | 20.13 | 1.263 | 115.2 | 0.674 | 2.339 | 295.6 | 507.2 | 0.763 | --- | -19.47 | 0.501 | 130.1 | 179.4 | -17.7 | 0.420 |
| 4-2100 | 4-2440 | 0.636 | 315.5 | 18.3 | 17.94 | 1.250 | 114.2 | 0.644 | 2.176 | 296.4 | 511.6 | 0.774 | --- | -17.65 | 0.470 | 125.3 | 179.6 | -18.0 | 0.376 |
| 4-2100 | 4-2460 | 0.601 | 315.0 | 16.2 | 16.11 | 1.240 | 113.3 | 0.621 | 2.066 | 297.0 | 515.9 | 0.782 | --- | -16.18 | 0.446 | 120.4 | 179.3 | -18.5 | 0.338 |
| 4-2100 | 4-2480 | 0.573 | 314.8 | 14.1 | 14.53 | 1.232 | 112.7 | 0.603 | 1.988 | 297.5 | 520.0 | 0.789 | --- | -14.98 | 0.427 | 115.5 | 178.5 | -19.0 | 0.307 |
| 4-2100 | 4-2500 | 0.551 | 314.7 | 12.1 | 13.15 | 1.227 | 112.3 | 0.589 | 1.931 | 297.7 | 524.0 | 0.793 | --- | -14.00 | 0.412 | 110.6 | 177.0 | -19.5 | 0.280 |
| 4-2100 | 4-2520 | 0.534 | 314.9 | 10.1 | 11.93 | 1.222 | 112.0 | 0.579 | 1.891 | 297.8 | 527.8 | 0.795 | --- | -13.18 | 0.402 | 105.8 | 175.0 | -20.0 | 0.258 |
| 4-2100 | 4-2540 | 0.522 | 315.2 | 8.1 | 10.82 | 1.219 | 111.8 | 0.572 | 1.861 | 297.6 | 531.5 | 0.796 | --- | -12.50 | 0.395 | 101.1 | 172.4 | -20.4 | 0.241 |
| 4-2100 | 4-2560 | 0.513 | 315.6 | 6.1 | 9.81 | 1.216 | 111.8 | 0.568 | 1.840 | 297.3 | 535.0 | 0.795 | --- | -11.93 | 0.391 | 96.6 | 169.4 | -20.6 | 0.229 |
| 4-2100 | 4-2580 | 0.509 | 316.3 | 4.2 | 8.88 | 1.214 | 112.0 | 0.566 | 1.826 | 296.7 | 538.3 | 0.792 | --- | -11.46 | 0.390 | 92.3 | 166.2 | -20.6 | 0.220 |
| 4-2100 | 4-2600 | 0.507 | 317.1 | 2.3 | 8.00 | 1.213 | 112.2 | 0.566 | 1.816 | 295.9 | 541.4 | 0.787 | 2.845 | -11.07 | 0.391 | 88.2 | 162.9 | -20.4 | 0.216 |
| 4-2100 | 4-2620 | 0.509 | 318.0 | 0.5 | 7.17 | 1.212 | 112.6 | 0.569 | 1.811 | 294.8 | 544.3 | 0.781 | 2.840 | -10.75 | 0.393 | 84.3 | 159.8 | -19.9 | 0.215 |
| 4-2100 | 4-2640 | 0.514 | 319.1 | -1.2 | 6.37 | 1.212 | 113.1 | 0.573 | 1.808 | 293.5 | 547.1 | 0.773 | 2.843 | -10.50 | 0.397 | 80.7 | 157.1 | -19.2 | 0.217 |
| 4-2100 | 4-2660 | 0.521 | 320.4 | -2.9 | 5.60 | 1.212 | 113.8 | 0.578 | 1.808 | 292.0 | 549.7 | 0.763 | 2.854 | -10.30 | 0.402 | 77.3 | 155.0 | -18.3 | 0.223 |
| 4-2100 | 4-2680 | 0.532 | 321.7 | -4.4 | 4.84 | 1.212 | 114.5 | 0.586 | 1.811 | 290.3 | 552.1 | 0.750 | 2.871 | -10.17 | 0.408 | 74.0 | 153.5 | -17.4 | 0.231 |
| 4-2100 | 4-2700 | 0.546 | 323.2 | -5.9 | 4.09 | 1.213 | 115.4 | 0.594 | 1.815 | 288.3 | 554.3 | 0.736 | 2.893 | -10.09 | 0.414 | 71.0 | 152.7 | -16.5 | 0.242 |
| 4-2100 | 4-2720 | 0.562 | 324.9 | -7.2 | 3.34 | 1.214 | 116.5 | 0.605 | 1.820 | 286.1 | 556.3 | 0.720 | 2.921 | -10.06 | 0.421 | 68.0 | 152.6 | -15.5 | 0.255 |
| 4-2100 | 4-2740 | 0.581 | 326.6 | -8.4 | 2.58 | 1.214 | 117.6 | 0.617 | 1.827 | 283.6 | 558.1 | 0.701 | 2.954 | -10.09 | 0.428 | 65.2 | 153.0 | -14.7 | 0.269 |
| 4-2100 | 4-2760 | 0.604 | 328.5 | -9.4 | 1.80 | 1.215 | 118.9 | 0.630 | 1.836 | 280.9 | 559.7 | 0.679 | 2.992 | -10.18 | 0.436 | 62.5 | 154.1 | -13.8 | 0.286 |
| 4-2100 | 4-2780 | 0.630 | 330.4 | -10.3 | 0.99 | 1.217 | 120.4 | 0.645 | 1.845 | 277.9 | 561.1 | 0.655 | 3.035 | -10.34 | 0.444 | 59.8 | 155.7 | -13.1 | 0.304 |
| 4-2100 | 4-2800 | 0.659 | 332.5 | -11.1 | 0.15 | 1.218 | 122.0 | 0.662 | 1.855 | 274.7 | 562.2 | 0.627 | 3.082 | -10.56 | 0.452 | 57.1 | 157.7 | -12.4 | 0.324 |
| 4-2100 | 4-2820 | 0.692 | 334.6 | -11.7 | -0.75 | 1.219 | 123.9 | 0.680 | 1.866 | 271.1 | 563.2 | 0.597 | 3.135 | -10.86 | 0.460 | 54.5 | 160.2 | -11.8 | 0.345 |
| 4-2110 | 4-2390 | 0.917 | 326.7 | 41.5 | 37.11 | 1.301 | 115.7 | 0.748 | 3.068 | 298.9 | 496.6 | 0.772 | --- | -36.89 | 0.592 | 138.4 | 175.9 | -24.3 | 0.574 |
| 4-2110 | 4-2410 | 0.803 | 323.2 | 37.2 | 30.76 | 1.280 | 114.1 | 0.700 | 2.632 | 300.3 | 501.1 | 0.789 | --- | -30.89 | 0.546 | 134.0 | 178.4 | -23.7 | 0.502 |
| 4-2110 | 4-2430 | 0.718 | 321.1 | 33.3 | 26.02 | 1.263 | 112.7 | 0.661 | 2.373 | 301.6 | 505.7 | 0.804 | --- | -26.50 | 0.508 | 129.4 | 180.0 | -23.3 | 0.443 |
| 4-2110 | 4-2450 | 0.653 | 319.8 | 29.7 | 22.36 | 1.251 | 111.6 | 0.631 | 2.206 | 302.6 | 510.2 | 0.815 | --- | -23.21 | 0.478 | 124.7 | 180.9 | -23.2 | 0.394 |
| 4-2110 | 4-2470 | 0.602 | 319.0 | 26.3 | 19.45 | 1.241 | 110.8 | 0.606 | 2.092 | 303.5 | 514.5 | 0.824 | --- | -20.67 | 0.454 | 119.9 | 181.2 | -23.2 | 0.353 |
| 4-2110 | 4-2490 | 0.563 | 318.5 | 23.2 | 17.07 | 1.233 | 110.1 | 0.587 | 2.012 | 304.1 | 518.8 | 0.830 | --- | -18.67 | 0.435 | 115.2 | 180.8 | -23.4 | 0.318 |
| 4-2110 | 4-2510 | 0.533 | 318.4 | 20.2 | 15.08 | 1.227 | 109.6 | 0.573 | 1.955 | 304.5 | 522.9 | 0.835 | --- | -17.07 | 0.421 | 110.4 | 179.7 | -23.6 | 0.289 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2110 | 4-2530 | 0.509 | 318.5 | 17.3 | 13.37 | 1.222 | 109.3 | 0.562 | 1.913 | 304.7 | 526.8 | 0.838 | --- | -15.76 | 0.411 | 105.8 | 178.1 | -23.9 | 0.265 |
| 4-2110 | 4-2550 | 0.491 | 318.8 | 14.5 | 11.89 | 1.219 | 109.1 | 0.554 | 1.883 | 304.7 | 530.6 | 0.839 | --- | -14.69 | 0.405 | 101.3 | 175.8 | -24.1 | 0.246 |
| 4-2110 | 4-2570 | 0.478 | 319.4 | 11.8 | 10.57 | 1.216 | 109.1 | 0.549 | 1.861 | 304.5 | 534.2 | 0.839 | --- | -13.81 | 0.401 | 97.0 | 173.1 | -24.2 | 0.232 |
| 4-2110 | 4-2590 | 0.470 | 320.2 | 9.2 | 9.38 | 1.215 | 109.1 | 0.546 | 1.845 | 304.0 | 537.6 | 0.837 | --- | -13.07 | 0.400 | 92.9 | 170.0 | -24.0 | 0.222 |
| 4-2110 | 4-2610 | 0.465 | 321.1 | 6.7 | 8.30 | 1.213 | 109.3 | 0.546 | 1.835 | 303.3 | 540.9 | 0.834 | 2.837 | -12.46 | 0.400 | 89.0 | 166.9 | -23.7 | 0.215 |
| 4-2110 | 4-2630 | 0.464 | 322.2 | 4.3 | 7.30 | 1.213 | 109.7 | 0.547 | 1.829 | 302.3 | 543.9 | 0.828 | 2.830 | -11.95 | 0.403 | 85.3 | 163.8 | -23.0 | 0.213 |
| 4-2110 | 4-2650 | 0.466 | 323.5 | 2.1 | 6.36 | 1.212 | 110.1 | 0.550 | 1.826 | 301.2 | 546.8 | 0.822 | 2.831 | -11.54 | 0.406 | 81.9 | 161.0 | -22.2 | 0.213 |
| 4-2110 | 4-2670 | 0.471 | 324.9 | 0.0 | 5.47 | 1.212 | 110.7 | 0.555 | 1.826 | 299.8 | 549.5 | 0.813 | 2.839 | -11.20 | 0.411 | 78.6 | 158.8 | -21.1 | 0.217 |
| 4-2110 | 4-2690 | 0.480 | 326.4 | -1.9 | 4.62 | 1.213 | 111.4 | 0.561 | 1.828 | 298.1 | 552.0 | 0.803 | 2.853 | -10.93 | 0.416 | 75.6 | 157.1 | -20.0 | 0.223 |
| 4-2110 | 4-2710 | 0.491 | 328.1 | -3.7 | 3.79 | 1.213 | 112.2 | 0.568 | 1.832 | 296.3 | 554.3 | 0.791 | 2.873 | -10.73 | 0.423 | 72.7 | 156.2 | -18.9 | 0.232 |
| 4-2110 | 4-2730 | 0.505 | 329.9 | -5.2 | 2.98 | 1.214 | 113.1 | 0.577 | 1.837 | 294.1 | 556.4 | 0.777 | 2.897 | -10.59 | 0.429 | 69.9 | 155.8 | -17.8 | 0.243 |
| 4-2110 | 4-2750 | 0.522 | 331.8 | -6.6 | 2.18 | 1.214 | 114.1 | 0.587 | 1.844 | 291.8 | 558.4 | 0.761 | 2.927 | -10.51 | 0.437 | 67.3 | 156.1 | -16.7 | 0.256 |
| 4-2110 | 4-2770 | 0.542 | 333.8 | -7.9 | 1.38 | 1.215 | 115.3 | 0.599 | 1.852 | 289.2 | 560.1 | 0.742 | 2.961 | -10.50 | 0.444 | 64.8 | 157.0 | -15.7 | 0.270 |
| 4-2110 | 4-2790 | 0.565 | 335.8 | -8.9 | 0.56 | 1.216 | 116.6 | 0.612 | 1.861 | 286.4 | 561.7 | 0.721 | 3.000 | -10.54 | 0.451 | 62.3 | 158.4 | -14.8 | 0.286 |
| 4-2110 | 4-2810 | 0.591 | 338.0 | -9.8 | -0.28 | 1.218 | 118.1 | 0.627 | 1.870 | 283.3 | 563.0 | 0.697 | 3.043 | -10.65 | 0.459 | 59.9 | 160.2 | -14.0 | 0.304 |
| 4-2110 | 4-2830 | 0.621 | 340.2 | -10.5 | -1.15 | 1.219 | 119.7 | 0.644 | 1.881 | 280.0 | 564.2 | 0.670 | 3.091 | -10.83 | 0.467 | 57.4 | 162.5 | -13.2 | 0.324 |
| 4-2120 | 4-2420 | 1.011 | 335.9 | 56.2 | 46.63 | 1.279 | 111.9 | 0.690 | 2.658 | 305.5 | 499.8 | 0.824 | --- | -47.86 | 0.550 | 133.3 | 173.3 | -30.9 | 0.579 |
| 4-2120 | 4-2440 | 0.849 | 328.3 | 50.5 | 37.08 | 1.263 | 110.3 | 0.650 | 2.397 | 307.3 | 504.4 | 0.840 | --- | -38.66 | 0.513 | 128.7 | 177.4 | -30.3 | 0.496 |
| 4-2120 | 4-2460 | 0.731 | 324.3 | 45.0 | 30.20 | 1.250 | 109.1 | 0.617 | 2.228 | 308.8 | 509.0 | 0.852 | --- | -32.15 | 0.484 | 124.0 | 180.0 | -29.6 | 0.431 |
| 4-2120 | 4-2480 | 0.645 | 322.2 | 39.8 | 25.11 | 1.240 | 108.2 | 0.592 | 2.113 | 309.9 | 513.5 | 0.862 | --- | -27.41 | 0.460 | 119.4 | 181.4 | -29.1 | 0.380 |
| 4-2120 | 4-2500 | 0.582 | 321.2 | 35.1 | 21.20 | 1.233 | 107.5 | 0.572 | 2.032 | 310.8 | 517.9 | 0.869 | --- | -23.88 | 0.442 | 114.7 | 181.8 | -28.7 | 0.339 |
| 4-2120 | 4-2520 | 0.534 | 320.8 | 30.6 | 18.12 | 1.227 | 107.0 | 0.557 | 1.974 | 311.5 | 522.1 | 0.874 | --- | -21.18 | 0.429 | 110.1 | 181.4 | -28.5 | 0.305 |
| 4-2120 | 4-2540 | 0.498 | 320.9 | 26.5 | 15.61 | 1.222 | 106.6 | 0.546 | 1.931 | 311.8 | 526.1 | 0.877 | --- | -19.06 | 0.419 | 105.6 | 180.3 | -28.4 | 0.278 |
| 4-2120 | 4-2560 | 0.470 | 321.3 | 22.5 | 13.52 | 1.219 | 106.4 | 0.538 | 1.901 | 311.9 | 530.0 | 0.879 | --- | -17.37 | 0.413 | 101.2 | 178.5 | -28.2 | 0.256 |
| 4-2120 | 4-2580 | 0.451 | 322.0 | 18.8 | 11.74 | 1.216 | 106.3 | 0.532 | 1.878 | 311.8 | 533.7 | 0.879 | --- | -16.00 | 0.409 | 97.1 | 176.1 | -28.0 | 0.238 |
| 4-2120 | 4-2600 | 0.436 | 322.9 | 15.2 | 10.19 | 1.215 | 106.4 | 0.529 | 1.863 | 311.4 | 537.2 | 0.878 | --- | -14.89 | 0.408 | 93.2 | 173.3 | -27.6 | 0.226 |
| 4-2120 | 4-2620 | 0.427 | 324.1 | 11.9 | 8.82 | 1.213 | 106.5 | 0.528 | 1.852 | 310.8 | 540.5 | 0.875 | 2.830 | -13.97 | 0.409 | 89.4 | 170.2 | -27.0 | 0.217 |
| 4-2120 | 4-2640 | 0.423 | 325.4 | 8.7 | 7.59 | 1.213 | 106.8 | 0.528 | 1.846 | 310.0 | 543.6 | 0.871 | 2.821 | -13.20 | 0.411 | 86.0 | 167.3 | -26.1 | 0.213 |
| 4-2120 | 4-2660 | 0.422 | 327.0 | 5.8 | 6.47 | 1.212 | 107.2 | 0.530 | 1.843 | 308.9 | 546.6 | 0.866 | 2.820 | -12.57 | 0.415 | 82.7 | 164.5 | -25.1 | 0.211 |
| 4-2120 | 4-2680 | 0.425 | 328.6 | 3.2 | 5.44 | 1.212 | 107.7 | 0.534 | 1.843 | 307.5 | 549.4 | 0.859 | 2.826 | -12.05 | 0.419 | 79.6 | 162.2 | -23.8 | 0.213 |
| 4-2120 | 4-2700 | 0.431 | 330.4 | 0.7 | 4.47 | 1.212 | 108.3 | 0.539 | 1.844 | 306.0 | 551.9 | 0.851 | 2.838 | -11.62 | 0.425 | 76.7 | 160.5 | -22.5 | 0.218 |
| 4-2120 | 4-2720 | 0.440 | 332.4 | -1.5 | 3.55 | 1.213 | 109.0 | 0.545 | 1.848 | 304.2 | 554.4 | 0.840 | 2.856 | -11.28 | 0.431 | 74.0 | 159.4 | -21.1 | 0.225 |
| 4-2120 | 4-2740 | 0.452 | 334.4 | -3.4 | 2.67 | 1.213 | 109.9 | 0.553 | 1.853 | 302.2 | 556.6 | 0.829 | 2.878 | -11.01 | 0.437 | 71.4 | 158.9 | -19.8 | 0.234 |
| 4-2120 | 4-2760 | 0.467 | 336.5 | -5.1 | 1.81 | 1.214 | 110.8 | 0.562 | 1.860 | 299.9 | 558.7 | 0.815 | 2.905 | -10.81 | 0.444 | 69.0 | 159.0 | -18.5 | 0.245 |
| 4-2120 | 4-2780 | 0.485 | 338.7 | -6.5 | 0.98 | 1.215 | 111.9 | 0.572 | 1.867 | 297.4 | 560.5 | 0.799 | 2.936 | -10.68 | 0.451 | 66.6 | 159.7 | -17.3 | 0.258 |
| 4-2120 | 4-2800 | 0.505 | 340.9 | -7.7 | 0.14 | 1.216 | 113.1 | 0.584 | 1.876 | 294.7 | 562.2 | 0.781 | 2.971 | -10.61 | 0.459 | 64.3 | 161.0 | -16.2 | 0.272 |
| 4-2120 | 4-2820 | 0.529 | 343.2 | -8.7 | -0.69 | 1.217 | 114.4 | 0.597 | 1.886 | 291.8 | 563.7 | 0.760 | 3.011 | -10.61 | 0.466 | 62.1 | 162.7 | -15.3 | 0.288 |
| 4-2120 | 4-2840 | 0.556 | 345.6 | -9.5 | -1.54 | 1.218 | 115.9 | 0.611 | 1.896 | 288.5 | 565.0 | 0.737 | 3.055 | -10.67 | 0.473 | 59.9 | 164.8 | -14.4 | 0.305 |
| 4-2130 | 4-2450 | 1.196 | 357.3 | 70.5 | 60.54 | 1.261 | 108.4 | 0.640 | 2.409 | 311.9 | 503.6 | 0.868 | --- | -63.19 | 0.516 | 128.0 | 167.4 | -35.2 | 0.630 |
| 4-2130 | 4-2470 | 0.958 | 335.7 | 64.7 | 46.12 | 1.249 | 106.9 | 0.606 | 2.241 | 314.4 | 508.2 | 0.884 | --- | -49.12 | 0.488 | 123.3 | 173.8 | -36.1 | 0.523 |
| 4-2130 | 4-2490 | 0.784 | 326.7 | 57.5 | 35.89 | 1.239 | 105.8 | 0.579 | 2.127 | 316.2 | 512.7 | 0.895 | --- | -39.24 | 0.465 | 118.7 | 178.1 | -35.7 | 0.442 |
| 4-2130 | 4-2510 | 0.662 | 323.1 | 50.6 | 28.62 | 1.232 | 105.0 | 0.559 | 2.046 | 317.5 | 517.2 | 0.903 | --- | -32.33 | 0.448 | 114.1 | 180.5 | -35.0 | 0.381 |
| 4-2130 | 4-2530 | 0.576 | 321.8 | 44.2 | 23.30 | 1.226 | 104.4 | 0.543 | 1.988 | 318.4 | 521.5 | 0.909 | --- | -27.37 | 0.435 | 109.5 | 181.5 | -34.2 | 0.335 |
| 4-2130 | 4-2550 | 0.513 | 321.6 | 38.3 | 19.27 | 1.222 | 104.0 | 0.531 | 1.946 | 319.0 | 525.7 | 0.912 | --- | -23.71 | 0.425 | 105.2 | 181.2 | -33.5 | 0.299 |
| 4-2130 | 4-2570 | 0.468 | 322.1 | 32.7 | 16.11 | 1.218 | 103.7 | 0.523 | 1.915 | 319.3 | 529.6 | 0.914 | --- | -20.93 | 0.420 | 101.0 | 180.1 | -32.9 | 0.271 |
| 4-2130 | 4-2590 | 0.435 | 323.0 | 27.5 | 13.55 | 1.216 | 103.6 | 0.517 | 1.893 | 319.3 | 533.4 | 0.915 | --- | -18.77 | 0.416 | 97.0 | 178.2 | -32.2 | 0.250 |
| 4-2130 | 4-2610 | 0.412 | 324.2 | 22.6 | 11.44 | 1.214 | 103.6 | 0.513 | 1.878 | 319.0 | 537.0 | 0.914 | --- | -17.06 | 0.415 | 93.2 | 175.8 | -31.4 | 0.234 |
| 4-2130 | 4-2630 | 0.396 | 325.7 | 18.1 | 9.64 | 1.213 | 103.8 | 0.511 | 1.867 | 318.5 | 540.3 | 0.912 | 2.822 | -15.68 | 0.416 | 89.6 | 173.0 | -30.4 | 0.222 |
| 4-2130 | 4-2650 | 0.387 | 327.4 | 13.9 | 8.09 | 1.212 | 104.0 | 0.511 | 1.861 | 317.7 | 543.5 | 0.909 | 2.813 | -14.56 | 0.418 | 86.3 | 170.2 | -29.2 | 0.215 |
| 4-2130 | 4-2670 | 0.382 | 329.3 | 10.0 | 6.72 | 1.212 | 104.4 | 0.513 | 1.858 | 316.7 | 546.6 | 0.905 | 2.811 | -13.64 | 0.422 | 83.2 | 167.5 | -27.9 | 0.211 |
| 4-2130 | 4-2690 | 0.382 | 331.4 | 6.5 | 5.49 | 1.212 | 104.8 | 0.516 | 1.857 | 315.4 | 549.4 | 0.899 | 2.816 | -12.88 | 0.427 | 80.3 | 165.2 | -26.3 | 0.211 |
| 4-2130 | 4-2710 | 0.385 | 333.6 | 3.4 | 4.37 | 1.212 | 105.4 | 0.520 | 1.859 | 313.9 | 552.0 | 0.892 | 2.826 | -12.25 | 0.432 | 77.5 | 163.4 | -24.7 | 0.214 |
| 4-2130 | 4-2730 | 0.392 | 335.9 | 0.6 | 3.34 | 1.212 | 106.1 | 0.525 | 1.863 | 312.2 | 554.5 | 0.884 | 2.842 | -11.74 | 0.438 | 75.0 | 162.2 | -23.1 | 0.219 |
| 4-2130 | 4-2750 | 0.403 | 338.2 | -1.8 | 2.37 | 1.213 | 106.8 | 0.532 | 1.868 | 310.2 | 556.8 | 0.874 | 2.862 | -11.32 | 0.444 | 72.6 | 161.7 | -21.5 | 0.227 |
| 4-2130 | 4-2770 | 0.416 | 340.7 | -3.8 | 1.46 | 1.214 | 107.7 | 0.540 | 1.875 | 308.0 | 559.0 | 0.863 | 2.887 | -10.99 | 0.451 | 70.3 | 161.7 | -20.0 | 0.236 |
| 4-2130 | 4-2790 | 0.432 | 343.2 | -5.5 | 0.58 | 1.215 | 108.7 | 0.549 | 1.882 | 305.6 | 561.0 | 0.849 | 2.915 | -10.74 | 0.458 | 68.1 | 162.3 | -18.7 | 0.248 |
| 4-2130 | 4-2810 | 0.450 | 345.7 | -6.9 | -0.28 | 1.216 | 109.8 | 0.559 | 1.891 | 303.0 | 562.8 | 0.834 | 2.948 | -10.55 | 0.465 | 66.0 | 163.5 | -17.4 | 0.260 |
| 4-2130 | 4-2830 | 0.472 | 348.2 | -8.0 | -1.12 | 1.217 | 111.0 | 0.570 | 1.900 | 300.1 | 564.4 | 0.816 | 2.984 | -10.44 | 0.472 | 63.9 | 165.1 | -16.3 | 0.274 |
| 4-2130 | 4-2850 | 0.496 | 350.7 | -8.8 | -1.95 | 1.218 | 112.3 | 0.583 | 1.910 | 297.0 | 565.8 | 0.796 | 3.024 | -10.39 | 0.480 | 61.9 | 167.1 | -15.3 | 0.290 |
| 4-2140 | 4-2380 | 0.810 | 31.5 | -50.6 | -31.87 | 1.354 | 107.6 | 0.849 | 5.942 | 321.4 | 481.1 | 0.900 | --- | 29.49 | 0.712 | 142.3 | 184.8 | 19.4 | 0.645 |
| 4-2140 | 4-2400 | 0.869 | 46.5 | -52.4 | -38.11 | 1.320 | 105.7 | 0.764 | 3.882 | 323.6 | 486.4 | 0.915 | --- | 35.40 | 0.648 | 138.4 | 183.2 | 24.5 | 0.601 |
| 4-2140 | 4-2420 | 0.986 | 62.5 | -50.4 | -46.96 | 1.295 | 103.9 | 0.698 | 3.079 | 326.0 | 491.7 | 0.929 | --- | 43.93 | 0.595 | 134.2 | 179.3 | 30.3 | 0.587 |
| 4-2140 | 4-2440 | 1.175 | 76.3 | -44.2 | -59.82 | 1.275 | 102.1 | 0.645 | 2.660 | 328.8 | 497.0 | 0.943 | --- | 56.46 | 0.552 | 129.8 | 172.3 | 35.1 | 0.614 |
| 4-2140 | 4-2500 | 1.152 | 0.0 | 78.9 | 59.63 | 1.238 | 103.8 | 0.569 | 2.133 | 321.3 | 512.3 | 0.920 | --- | -63.99 | 0.468 | 118.0 | 167.8 | -38.7 | 0.594 |
| 4-2140 | 4-2520 | 0.894 | 328.6 | 70.8 | 44.12 | 1.230 | 102.7 | 0.547 | 2.054 | 323.7 | 516.9 | 0.931 | --- | -48.81 | 0.451 | 113.4 | 174.2 | -40.3 | 0.482 |
| 4-2140 | 4-2540 | 0.712 | 321.3 | 61.8 | 33.37 | 1.225 | 101.9 | 0.530 | 1.997 | 325.3 | 521.3 | 0.938 | --- | -38.41 | 0.439 | 108.9 | 178.3 | -40.1 | 0.401 |
| 4-2140 | 4-2560 | 0.588 | 319.8 | 53.4 | 25.92 | 1.220 | 101.4 | 0.518 | 1.956 | 326.3 | 525.5 | 0.942 | --- | -31.30 | 0.430 | 104.6 | 180.1 | -39.1 | 0.343 |
| 4-2140 | 4-2580 | 0.503 | 320.3 | 45.7 | 20.56 | 1.217 | 101.1 | 0.510 | 1.926 | 326.8 | 529.5 | 0.945 | --- | -26.29 | 0.425 | 100.5 | 180.3 | -38.0 | 0.301 |
| 4-2140 | 4-2600 | 0.444 | 321.6 | 38.6 | 16.55 | 1.215 | 100.9 | 0.503 | 1.904 | 327.0 | 533.4 | 0.946 | --- | -22.64 | 0.422 | 96.6 | 179.3 | -36.8 | 0.270 |
| 4-2140 | 4-2620 | 0.403 | 323.3 | 31.9 | 13.44 | 1.213 | 100.9 | 0.500 | 1.889 | 326.8 | 537.0 | 0.945 | --- | -19.90 | 0.421 | 93.0 | 177.5 | -35.4 | 0.247 |
| 4-2140 | 4-2640 | 0.375 | 325.4 | 25.7 | 10.95 | 1.212 | 101.0 | 0.498 | 1.879 | 326.4 | 540.4 | 0.944 | 2.815 | -17.79 | 0.422 | 89.6 | 175.1 | -34.0 | 0.231 |
| 4-2140 | 4-2660 | 0.358 | 327.8 | 20.0 | 8.89 | 1.211 | 101.3 | 0.497 | 1.873 | 325.6 | 543.7 | 0.942 | 2.805 | -16.13 | 0.425 | 86.4 | 172.5 | -32.4 | 0.220 |
| 4-2140 | 4-2680 | 0.347 | 330.2 | 14.8 | 7.15 | 1.211 | 101.6 | 0.498 | 1.871 | 324.6 | 546.7 | 0.938 | 2.803 | -14.80 | 0.429 | 83.4 | 169.9 | -30.6 | 0.214 |
| 4-2140 | 4-2700 | 0.343 | 332.9 | 10.1 | 5.65 | 1.211 | 102.0 | 0.501 | 1.871 | 323.4 | 549.6 | 0.934 | 2.807 | -13.72 | 0.433 | 80.6 | 167.7 | -28.7 | 0.211 |
| 4-2140 | 4-2720 | 0.344 | 335.6 | 6.0 | 4.33 | 1.211 | 102.6 | 0.504 | 1.873 | 321.9 | 552.3 | 0.928 | 2.817 | -12.84 | 0.439 | 78.1 | 166.0 | -26.7 | 0.212 |
| 4-2140 | 4-2740 | 0.349 | 338.4 | 2.5 | 3.15 | 1.211 | 103.2 | 0.509 | 1.876 | 320.2 | 554.8 | 0.922 | 2.831 | -12.12 | 0.445 | 75.6 | 164.8 | -24.8 | 0.216 |
| 4-2140 | 4-2760 | 0.357 | 341.3 | -0.5 | 2.08 | 1.212 | 103.9 | 0.515 | 1.882 | 318.3 | 557.2 | 0.914 | 2.850 | -11.53 | 0.451 | 73.4 | 164.2 | -22.9 | 0.222 |
| 4-2140 | 4-2780 | 0.369 | 344.2 | -3.0 | 1.08 | 1.213 | 104.7 | 0.521 | 1.888 | 316.1 | 559.4 | 0.904 | 2.873 | -11.05 | 0.458 | 71.2 | 164.2 | -21.2 | 0.230 |
| 4-2140 | 4-2800 | 0.383 | 347.0 | -5.0 | 0.15 | 1.214 | 105.6 | 0.529 | 1.896 | 313.7 | 561.4 | 0.893 | 2.899 | -10.66 | 0.465 | 69.2 | 164.7 | -19.6 | 0.239 |
| 4-2140 | 4-2820 | 0.400 | 349.9 | -6.7 | -0.73 | 1.215 | 106.7 | 0.538 | 1.905 | 311.1 | 563.3 | 0.880 | 2.929 | -10.36 | 0.472 | 67.2 | 165.8 | -18.2 | 0.250 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2140 | 4-2840 | 0.420 | 352.7 | -7.9 | -1.58 | 1.216 | 107.8 | 0.548 | 1.914 | 308.3 | 565.0 | 0.865 | 2.963 | -10.13 | 0.479 | 65.3 | 167.3 | -16.9 | 0.263 |
| 4-2140 | 4-2860 | 0.443 | 355.5 | -8.8 | -2.40 | 1.217 | 109.0 | 0.559 | 1.924 | 305.3 | 566.5 | 0.848 | 3.000 | -9.97 | 0.486 | 63.5 | 169.3 | -15.8 | 0.277 |
| 4-2150 | 4-2390 | 0.660 | 21.6 | -48.8 | -23.46 | 1.348 | 104.6 | 0.833 | 5.589 | 327.8 | 480.4 | 0.933 | --- | 19.98 | 0.705 | 141.2 | 189.7 | 14.4 | 0.606 |
| 4-2150 | 4-2410 | 0.669 | 31.3 | -53.2 | -26.62 | 1.315 | 102.9 | 0.750 | 3.770 | 329.8 | 485.9 | 0.944 | --- | 22.83 | 0.643 | 137.3 | 189.7 | 18.0 | 0.546 |
| 4-2150 | 4-2430 | 0.708 | 44.1 | -56.0 | -30.80 | 1.290 | 101.4 | 0.685 | 3.029 | 331.9 | 491.4 | 0.955 | --- | 26.70 | 0.591 | 133.2 | 188.9 | 22.6 | 0.503 |
| 4-2150 | 4-2450 | 0.783 | 59.1 | -56.4 | -36.58 | 1.271 | 100.0 | 0.634 | 2.635 | 334.1 | 496.9 | 0.963 | --- | 32.17 | 0.550 | 128.9 | 186.6 | 28.3 | 0.481 |
| 4-2150 | 4-2470 | 0.909 | 74.1 | -53.4 | -44.95 | 1.256 | 98.8 | 0.595 | 2.396 | 336.4 | 502.3 | 0.971 | --- | 40.24 | 0.516 | 124.5 | 182.1 | 34.3 | 0.487 |
| 4-2150 | 4-2490 | 1.109 | 86.9 | -46.5 | -57.57 | 1.244 | 97.6 | 0.563 | 2.239 | 338.9 | 507.5 | 0.979 | --- | 52.55 | 0.490 | 119.9 | 174.5 | 39.0 | 0.535 |
| 4-2150 | 4-2510 | 1.396 | 96.4 | -35.6 | -76.37 | 1.235 | 96.2 | 0.538 | 2.132 | 342.3 | 512.7 | 0.986 | --- | 71.05 | 0.469 | 115.3 | 165.1 | 39.2 | 0.635 |
| 4-2150 | 4-2550 | 1.087 | 335.7 | 85.3 | 56.83 | 1.223 | 99.8 | 0.520 | 2.001 | 331.1 | 521.3 | 0.960 | --- | -62.77 | 0.442 | 108.2 | 169.2 | -41.5 | 0.564 |
| 4-2150 | 4-2570 | 0.810 | 313.3 | 73.1 | 40.31 | 1.219 | 99.0 | 0.507 | 1.962 | 333.1 | 525.6 | 0.966 | --- | -46.57 | 0.434 | 103.9 | 175.0 | -43.4 | 0.445 |
| 4-2150 | 4-2590 | 0.624 | 313.7 | 62.3 | 29.39 | 1.216 | 98.5 | 0.498 | 1.933 | 334.2 | 529.8 | 0.969 | --- | -35.97 | 0.429 | 99.9 | 178.1 | -43.1 | 0.363 |
| 4-2150 | 4-2610 | 0.503 | 316.2 | 52.6 | 22.06 | 1.213 | 98.3 | 0.492 | 1.912 | 334.7 | 533.6 | 0.971 | --- | -28.96 | 0.427 | 96.1 | 178.9 | -41.7 | 0.309 |
| 4-2150 | 4-2630 | 0.425 | 319.2 | 43.7 | 16.91 | 1.212 | 98.2 | 0.488 | 1.898 | 334.7 | 537.3 | 0.971 | --- | -24.14 | 0.426 | 92.6 | 178.1 | -39.9 | 0.272 |
| 4-2150 | 4-2650 | 0.373 | 322.4 | 35.3 | 13.11 | 1.211 | 98.3 | 0.486 | 1.889 | 334.4 | 540.8 | 0.970 | 2.807 | -20.69 | 0.428 | 89.3 | 176.4 | -37.8 | 0.246 |
| 4-2150 | 4-2670 | 0.340 | 325.7 | 27.5 | 10.20 | 1.210 | 98.5 | 0.486 | 1.883 | 333.7 | 544.0 | 0.969 | 2.798 | -18.12 | 0.431 | 86.2 | 174.2 | -35.6 | 0.229 |
| 4-2150 | 4-2690 | 0.321 | 329.1 | 20.4 | 7.88 | 1.210 | 98.9 | 0.486 | 1.881 | 332.7 | 547.1 | 0.966 | 2.796 | -16.16 | 0.435 | 83.4 | 171.8 | -33.3 | 0.219 |
| 4-2150 | 4-2710 | 0.310 | 332.6 | 14.1 | 5.97 | 1.210 | 99.3 | 0.488 | 1.881 | 331.5 | 550.0 | 0.963 | 2.800 | -14.62 | 0.439 | 80.7 | 169.7 | -30.9 | 0.213 |
| 4-2150 | 4-2730 | 0.307 | 336.2 | 8.6 | 4.36 | 1.210 | 99.8 | 0.491 | 1.884 | 330.0 | 552.7 | 0.958 | 2.809 | -13.40 | 0.445 | 78.3 | 168.0 | -28.5 | 0.212 |
| 4-2150 | 4-2750 | 0.309 | 339.7 | 3.9 | 2.98 | 1.210 | 100.4 | 0.495 | 1.888 | 328.3 | 555.2 | 0.953 | 2.823 | -12.42 | 0.451 | 76.0 | 166.9 | -26.2 | 0.213 |
| 4-2150 | 4-2770 | 0.316 | 343.3 | 0.1 | 1.76 | 1.211 | 101.1 | 0.500 | 1.894 | 326.4 | 557.6 | 0.947 | 2.841 | -11.62 | 0.457 | 73.9 | 166.3 | -24.0 | 0.218 |
| 4-2150 | 4-2790 | 0.326 | 346.8 | -3.0 | 0.67 | 1.212 | 101.8 | 0.506 | 1.901 | 324.2 | 559.8 | 0.939 | 2.862 | -10.97 | 0.464 | 71.9 | 166.3 | -22.0 | 0.224 |
| 4-2150 | 4-2810 | 0.339 | 350.2 | -5.4 | -0.32 | 1.213 | 102.7 | 0.513 | 1.909 | 321.8 | 561.9 | 0.930 | 2.887 | -10.45 | 0.471 | 70.0 | 166.8 | -20.2 | 0.233 |
| 4-2150 | 4-2830 | 0.355 | 353.5 | -7.3 | -1.23 | 1.214 | 103.7 | 0.520 | 1.917 | 319.3 | 563.8 | 0.919 | 2.915 | -10.02 | 0.477 | 68.1 | 167.9 | -18.5 | 0.242 |
| 4-2150 | 4-2850 | 0.373 | 356.8 | -8.6 | -2.09 | 1.215 | 104.8 | 0.529 | 1.927 | 316.5 | 565.6 | 0.907 | 2.947 | -9.68 | 0.484 | 66.4 | 169.4 | -17.1 | 0.254 |
| 4-2150 | 4-2870 | 0.394 | 359.9 | -9.5 | -2.91 | 1.216 | 105.9 | 0.539 | 1.937 | 313.4 | 567.2 | 0.893 | 2.982 | -9.42 | 0.491 | 64.7 | 171.4 | -15.8 | 0.266 |
| 4-2160 | 4-2360 | 0.640 | 8.5 | -36.7 | -15.97 | 1.435 | 105.0 | 1.06614.320 | | 330.9 | 468.9 | 0.940 | --- | 11.95 | 0.863 | 147.0 | 190.7 | 7.4 | 0.751 |
| 4-2160 | 4-2380 | 0.591 | 11.8 | -41.9 | -17.21 | 1.381 | 103.0 | 0.92212.146 | | 332.8 | 474.5 | 0.952 | --- | 12.90 | 0.770 | 143.6 | 191.9 | 9.0 | 0.656 |
| 4-2160 | 4-2400 | 0.563 | 16.1 | -47.2 | -18.67 | 1.340 | 101.2 | 0.814 | 5.165 | 334.9 | 480.2 | 0.963 | --- | 14.08 | 0.695 | 140.0 | 192.9 | 10.9 | 0.577 |
| 4-2160 | 4-2420 | 0.552 | 22.0 | -52.2 | -20.44 | 1.309 | 99.7 | 0.732 | 3.620 | 337.0 | 485.9 | 0.972 | --- | 15.57 | 0.635 | 136.1 | 193.5 | 13.3 | 0.513 |
| 4-2160 | 4-2440 | 0.559 | 29.9 | -56.6 | -22.64 | 1.285 | 98.4 | 0.669 | 2.955 | 339.1 | 491.6 | 0.979 | --- | 17.48 | 0.585 | 132.0 | 193.7 | 16.5 | 0.462 |
| 4-2160 | 4-2460 | 0.585 | 40.6 | -59.9 | -25.46 | 1.266 | 97.2 | 0.620 | 2.593 | 341.1 | 497.2 | 0.985 | --- | 20.03 | 0.545 | 127.7 | 193.2 | 20.5 | 0.422 |
| 4-2160 | 4-2480 | 0.633 | 54.0 | -61.6 | -29.24 | 1.252 | 96.2 | 0.583 | 2.371 | 343.0 | 502.7 | 0.989 | --- | 23.52 | 0.513 | 123.4 | 191.7 | 25.5 | 0.397 |
| 4-2160 | 4-2500 | 0.713 | 69.0 | -60.8 | -34.54 | 1.241 | 95.4 | 0.553 | 2.224 | 344.9 | 508.0 | 0.993 | --- | 28.56 | 0.488 | 118.9 | 188.9 | 31.6 | 0.390 |
| 4-2160 | 4-2520 | 0.842 | 83.7 | -57.1 | -42.48 | 1.232 | 94.6 | 0.531 | 2.123 | 346.7 | 513.2 | 0.996 | --- | 36.22 | 0.468 | 114.5 | 183.8 | 37.9 | 0.410 |
| 4-2160 | 4-2540 | 1.050 | 96.2 | -49.7 | -55.08 | 1.226 | 93.8 | 0.513 | 2.051 | 348.8 | 518.1 | 0.999 | --- | 48.55 | 0.454 | 110.1 | 176.0 | 42.4 | 0.474 |
| 4-2160 | 4-2560 | 1.367 | 105.9 | -37.6 | -75.36 | 1.220 | 92.8 | 0.499 | 2.000 | 351.5 | 522.9 | 1.002 | --- | 68.55 | 0.443 | 105.7 | 167.2 | 41.4 | 0.600 |
| 4-2160 | 4-2600 | 0.985 | 268.8 | 83.3 | 51.46 | 1.214 | 96.3 | 0.490 | 1.935 | 340.9 | 530.2 | 0.987 | --- | -58.82 | 0.432 | 99.2 | 171.6 | -43.9 | 0.526 |
| 4-2160 | 4-2620 | 0.695 | 299.7 | 70.2 | 34.41 | 1.211 | 95.8 | 0.484 | 1.916 | 342.2 | 534.2 | 0.990 | --- | -42.06 | 0.430 | 95.4 | 175.9 | -45.6 | 0.402 |
| 4-2160 | 4-2640 | 0.517 | 308.7 | 58.3 | 23.89 | 1.210 | 95.6 | 0.480 | 1.903 | 342.7 | 537.9 | 0.991 | --- | -31.83 | 0.430 | 91.9 | 177.4 | -44.4 | 0.324 |
| 4-2160 | 4-2660 | 0.409 | 314.9 | 47.2 | 17.12 | 1.209 | 95.6 | 0.477 | 1.895 | 342.5 | 541.4 | 0.990 | 2.800 | -25.35 | 0.432 | 88.8 | 176.9 | -42.1 | 0.276 |
| 4-2160 | 4-2680 | 0.345 | 320.3 | 36.8 | 12.47 | 1.209 | 95.8 | 0.477 | 1.891 | 341.9 | 544.6 | 0.989 | 2.792 | -21.00 | 0.435 | 85.8 | 175.2 | -39.2 | 0.246 |
| 4-2160 | 4-2700 | 0.306 | 325.4 | 27.2 | 9.09 | 1.208 | 96.1 | 0.477 | 1.889 | 340.9 | 547.7 | 0.988 | 2.791 | -17.93 | 0.439 | 83.1 | 173.2 | -36.1 | 0.228 |
| 4-2160 | 4-2720 | 0.285 | 330.2 | 18.4 | 6.52 | 1.208 | 96.5 | 0.479 | 1.890 | 339.7 | 550.6 | 0.985 | 2.795 | -15.68 | 0.444 | 80.6 | 171.2 | -33.0 | 0.218 |
| 4-2160 | 4-2740 | 0.276 | 334.9 | 10.9 | 4.48 | 1.209 | 97.0 | 0.481 | 1.893 | 338.2 | 553.3 | 0.982 | 2.805 | -13.96 | 0.450 | 78.3 | 169.6 | -30.0 | 0.213 |
| 4-2160 | 4-2760 | 0.275 | 339.5 | 4.7 | 2.81 | 1.209 | 97.6 | 0.485 | 1.898 | 336.5 | 555.8 | 0.978 | 2.818 | -12.63 | 0.456 | 76.1 | 168.5 | -27.2 | 0.212 |
| 4-2160 | 4-2780 | 0.280 | 344.0 | -0.3 | 1.40 | 1.210 | 98.3 | 0.489 | 1.904 | 334.5 | 558.2 | 0.973 | 2.835 | -11.58 | 0.463 | 74.1 | 168.0 | -24.6 | 0.215 |
| 4-2160 | 4-2800 | 0.288 | 348.3 | -4.2 | 0.19 | 1.211 | 99.1 | 0.494 | 1.911 | 332.3 | 560.4 | 0.967 | 2.855 | -10.73 | 0.469 | 72.2 | 168.1 | -22.2 | 0.220 |
| 4-2160 | 4-2820 | 0.300 | 352.4 | -7.1 | -0.87 | 1.212 | 99.9 | 0.500 | 1.920 | 330.0 | 562.5 | 0.960 | 2.879 | -10.05 | 0.476 | 70.4 | 168.7 | -20.2 | 0.227 |
| 4-2160 | 4-2840 | 0.315 | 356.4 | -9.1 | -1.83 | 1.213 | 100.8 | 0.506 | 1.929 | 327.4 | 564.4 | 0.952 | 2.906 | -9.50 | 0.483 | 68.8 | 169.8 | -18.4 | 0.236 |
| 4-2160 | 4-2860 | 0.332 | 0.2 | -10.5 | -2.70 | 1.214 | 101.9 | 0.514 | 1.939 | 324.6 | 566.2 | 0.942 | 2.935 | -9.06 | 0.490 | 67.2 | 171.3 | -16.8 | 0.246 |
| 4-2160 | 4-2880 | 0.352 | 3.8 | -11.3 | -3.50 | 1.215 | 103.0 | 0.523 | 1.949 | 321.6 | 567.8 | 0.931 | 2.968 | -8.71 | 0.496 | 65.6 | 173.3 | -15.4 | 0.258 |
| 4-2170 | 4-2350 | 0.643 | 6.1 | -31.8 | -13.28 | 1.491 | 103.1 | 1.231-4.168 | | 336.3 | 463.0 | 0.961 | --- | 8.33 | 0.956 | 148.9 | 191.7 | 4.9 | 0.838 |
| 4-2170 | 4-2370 | 0.572 | 7.6 | -36.6 | -13.98 | 1.422 | 101.1 | 1.03726.459 | | 338.3 | 468.7 | 0.971 | --- | 8.77 | 0.844 | 145.8 | 193.0 | 5.7 | 0.723 |
| 4-2170 | 4-2390 | 0.523 | 9.4 | -41.7 | -14.78 | 1.370 | 99.3 | 0.895 | 9.381 | 340.4 | 474.5 | 0.980 | --- | 9.31 | 0.755 | 142.4 | 194.3 | 6.8 | 0.630 |
| 4-2170 | 4-2410 | 0.491 | 11.7 | -47.0 | -15.68 | 1.331 | 97.7 | 0.790 | 4.713 | 342.6 | 480.4 | 0.988 | --- | 9.96 | 0.683 | 138.7 | 195.3 | 8.1 | 0.552 |
| 4-2170 | 4-2430 | 0.474 | 14.8 | -52.1 | -16.73 | 1.301 | 96.3 | 0.711 | 3.442 | 344.9 | 486.4 | 0.993 | --- | 10.76 | 0.624 | 134.7 | 196.0 | 9.8 | 0.488 |
| 4-2170 | 4-2450 | 0.468 | 19.1 | -56.9 | -17.97 | 1.279 | 95.1 | 0.651 | 2.861 | 347.1 | 492.3 | 0.998 | --- | 11.75 | 0.577 | 130.6 | 196.5 | 11.9 | 0.434 |
| 4-2170 | 4-2470 | 0.474 | 25.2 | -61.1 | -19.47 | 1.261 | 94.1 | 0.605 | 2.536 | 349.1 | 498.1 | 1.001 | --- | 13.01 | 0.538 | 126.3 | 196.5 | 14.5 | 0.389 |
| 4-2170 | 4-2490 | 0.491 | 33.8 | -64.5 | -21.35 | 1.247 | 93.3 | 0.570 | 2.334 | 351.0 | 503.7 | 1.003 | --- | 14.66 | 0.508 | 122.0 | 196.0 | 17.9 | 0.354 |
| 4-2170 | 4-2510 | 0.522 | 45.3 | -66.8 | -23.80 | 1.237 | 92.6 | 0.543 | 2.199 | 352.6 | 509.0 | 1.005 | --- | 16.87 | 0.484 | 117.6 | 194.9 | 22.3 | 0.328 |
| 4-2170 | 4-2530 | 0.572 | 59.7 | -67.5 | -27.12 | 1.229 | 92.0 | 0.522 | 2.106 | 354.1 | 514.2 | 1.006 | --- | 19.96 | 0.466 | 113.2 | 192.7 | 27.7 | 0.314 |
| 4-2170 | 4-2550 | 0.649 | 75.5 | -66.0 | -31.92 | 1.222 | 91.6 | 0.506 | 2.040 | 355.3 | 519.0 | 1.007 | --- | 24.52 | 0.453 | 109.0 | 189.3 | 34.1 | 0.317 |
| 4-2170 | 4-2570 | 0.775 | 90.7 | -61.8 | -39.40 | 1.218 | 91.2 | 0.494 | 1.993 | 356.4 | 523.7 | 1.007 | --- | 31.77 | 0.443 | 104.8 | 184.0 | 40.6 | 0.347 |
| 4-2170 | 4-2590 | 0.991 | 103.9 | -53.6 | -52.18 | 1.214 | 90.8 | 0.485 | 1.958 | 357.7 | 528.1 | 1.008 | --- | 44.31 | 0.437 | 100.8 | 176.7 | 44.9 | 0.425 |
| 4-2170 | 4-2610 | 1.355 | 115.0 | -39.8 | -75.18 | 1.211 | 90.1 | 0.479 | 1.934 | 359.6 | 532.4 | 1.008 | --- | 67.07 | 0.434 | 96.9 | 169.4 | 42.8 | 0.583 |
| 4-2170 | 4-2650 | 0.829 | 267.5 | 75.8 | 42.70 | 1.208 | 93.2 | 0.474 | 1.905 | 350.1 | 538.7 | 1.003 | --- | -51.28 | 0.433 | 91.2 | 174.3 | -46.2 | 0.468 |
| 4-2170 | 4-2670 | 0.548 | 297.4 | 62.3 | 26.34 | 1.207 | 93.0 | 0.471 | 1.899 | 350.6 | 542.2 | 1.004 | 2.794 | -35.17 | 0.436 | 88.0 | 176.3 | -46.2 | 0.347 |
| 4-2170 | 4-2690 | 0.397 | 309.6 | 48.8 | 17.08 | 1.207 | 93.1 | 0.471 | 1.895 | 350.2 | 545.4 | 1.003 | 2.787 | -26.16 | 0.439 | 85.2 | 175.7 | -43.3 | 0.281 |
| 4-2170 | 4-2710 | 0.316 | 318.0 | 35.7 | 11.36 | 1.207 | 93.4 | 0.471 | 1.895 | 349.3 | 548.5 | 1.002 | 2.787 | -20.69 | 0.444 | 82.6 | 174.1 | -39.3 | 0.245 |
| 4-2170 | 4-2730 | 0.273 | 325.1 | 23.6 | 7.50 | 1.207 | 93.8 | 0.472 | 1.897 | 348.0 | 551.3 | 1.001 | 2.792 | -17.09 | 0.449 | 80.2 | 172.3 | -35.2 | 0.225 |
| 4-2170 | 4-2750 | 0.254 | 331.5 | 13.0 | 4.72 | 1.208 | 94.3 | 0.474 | 1.901 | 346.5 | 554.0 | 0.999 | 2.802 | -14.58 | 0.455 | 78.0 | 170.8 | -31.3 | 0.215 |
| 4-2170 | 4-2770 | 0.248 | 337.5 | 4.4 | 2.61 | 1.208 | 94.9 | 0.477 | 1.906 | 344.7 | 556.5 | 0.997 | 2.815 | -12.74 | 0.461 | 76.0 | 169.8 | -27.7 | 0.212 |
| 4-2170 | 4-2790 | 0.250 | 343.2 | -2.2 | 0.94 | 1.209 | 95.6 | 0.481 | 1.913 | 342.7 | 558.9 | 0.993 | 2.832 | -11.36 | 0.467 | 74.1 | 169.4 | -24.6 | 0.213 |
| 4-2170 | 4-2810 | 0.258 | 348.6 | -7.1 | -0.42 | 1.210 | 96.3 | 0.485 | 1.921 | 340.5 | 561.1 | 0.989 | 2.852 | -10.28 | 0.474 | 72.3 | 169.5 | -21.9 | 0.216 |
| 4-2170 | 4-2830 | 0.269 | 353.6 | -10.4 | -1.57 | 1.211 | 97.2 | 0.490 | 1.929 | 338.1 | 563.1 | 0.984 | 2.875 | -9.44 | 0.481 | 70.7 | 170.2 | -19.5 | 0.223 |
| 4-2170 | 4-2850 | 0.282 | 358.4 | -12.7 | -2.56 | 1.212 | 98.1 | 0.496 | 1.939 | 335.4 | 565.1 | 0.978 | 2.900 | -8.77 | 0.488 | 69.1 | 171.4 | -17.5 | 0.231 |
| 4-2170 | 4-2870 | 0.298 | 2.8 | -14.0 | -3.44 | 1.213 | 99.1 | 0.502 | 1.949 | 332.6 | 566.9 | 0.970 | 2.929 | -8.23 | 0.494 | 67.6 | 173.0 | -15.8 | 0.240 |
| 4-2170 | 4-2890 | 0.316 | 6.9 | -14.6 | -4.23 | 1.214 | 100.2 | 0.510 | 1.960 | 329.6 | 568.5 | 0.961 | 2.959 | -7.79 | 0.501 | 66.2 | 175.0 | -14.4 | 0.251 |
| 4-2180 | 4-2360 | 0.581 | 4.9 | -33.0 | -12.17 | 1.473 | 98.7 | 1.188-5.252 | | 344.0 | 463.1 | 0.989 | --- | 5.95 | 0.930 | 147.8 | 193.7 | 3.7 | 0.805 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2180 | 4-2380 | 0.516 | 5.2 | -37.9 | -12.63 | 1.407 | 96.9 | 1.0000 | 1.525 | 346.2 | 469.1 | 0.996 | --- | 6.18 | 0.822 | 144.6 | 195.0 | 4.2 | 0.694 |
| 4-2180 | 4-2400 | 0.470 | 5.5 | -43.0 | -13.13 | 1.358 | 95.3 | 0.865 | 7.395 | 348.6 | 475.2 | 1.001 | --- | 6.47 | 0.736 | 141.1 | 196.1 | 5.0 | 0.604 |
| 4-2180 | 4-2420 | 0.439 | 5.9 | -48.2 | -13.68 | 1.321 | 93.9 | 0.764 | 4.265 | 351.1 | 481.4 | 1.005 | --- | 6.81 | 0.667 | 137.3 | 197.1 | 5.8 | 0.528 |
| 4-2180 | 4-2440 | 0.419 | 6.6 | -53.1 | -14.31 | 1.293 | 92.7 | 0.690 | 3.246 | 353.5 | 487.6 | 1.008 | --- | 7.23 | 0.611 | 133.3 | 197.8 | 6.9 | 0.464 |
| 4-2180 | 4-2460 | 0.409 | 7.8 | -57.8 | -15.02 | 1.271 | 91.6 | 0.633 | 2.752 | 355.8 | 493.7 | 1.009 | --- | 7.74 | 0.565 | 129.1 | 198.3 | 8.3 | 0.411 |
| 4-2180 | 4-2480 | 0.407 | 9.9 | -62.0 | -15.85 | 1.255 | 90.8 | 0.591 | 2.468 | 357.9 | 499.6 | 1.010 | --- | 8.38 | 0.529 | 124.8 | 198.4 | 10.0 | 0.366 |
| 4-2180 | 4-2500 | 0.411 | 13.4 | -65.7 | -16.84 | 1.242 | 90.1 | 0.558 | 2.287 | 359.8 | 505.2 | 1.010 | --- | 9.17 | 0.501 | 120.5 | 198.1 | 12.1 | 0.328 |
| 4-2180 | 4-2520 | 0.423 | 19.0 | -69.0 | -18.05 | 1.232 | 89.5 | 0.534 | 2.166 | 1.4 | 150.6 | --- | --- | 10.19 | 0.478 | 116.1 | 197.3 | 14.8 | 0.297 |
| 4-2180 | 4-2540 | 0.442 | 27.5 | -71.5 | -19.58 | 1.224 | 89.1 | 0.515 | 2.082 | 2.6 | 155.7 | --- | --- | 11.53 | 0.462 | 111.8 | 196.0 | 18.3 | 0.273 |
| 4-2180 | 4-2560 | 0.471 | 40.0 | -73.3 | -21.59 | 1.219 | 88.8 | 0.501 | 2.023 | 3.6 | 160.5 | --- | --- | 13.36 | 0.450 | 107.5 | 193.9 | 22.7 | 0.256 |
| 4-2180 | 4-2580 | 0.515 | 56.5 | -73.6 | -24.39 | 1.214 | 88.6 | 0.490 | 1.980 | 4.3 | 165.1 | --- | --- | 15.97 | 0.441 | 103.5 | 191.0 | 28.2 | 0.250 |
| 4-2180 | 4-2600 | 0.584 | 75.4 | -72.0 | -28.57 | 1.211 | 88.5 | 0.482 | 1.950 | 4.7 | 169.3 | --- | --- | 19.97 | 0.436 | 99.6 | 187.2 | 34.7 | 0.258 |
| 4-2180 | 4-2620 | 0.701 | 93.7 | -67.5 | -35.47 | 1.209 | 88.4 | 0.477 | 1.928 | 5.0 | 173.3 | --- | --- | 26.68 | 0.434 | 96.0 | 182.4 | 41.5 | 0.293 |
| 4-2180 | 4-2640 | 0.925 | 109.8 | -58.6 | -48.56 | 1.207 | 88.3 | 0.473 | 1.913 | 5.3 | 177.1 | --- | --- | 39.59 | 0.434 | 92.6 | 176.7 | 46.4 | 0.381 |
| 4-2180 | 4-2660 | 1.372 | 123.9 | -41.4 | -76.66 | 1.206 | 87.9 | 0.470 | 1.904 | 6.5 | 180.9 | --- | 2.800 | 67.50 | 0.435 | 89.2 | 172.2 | 43.2 | 0.587 |
| 4-2180 | 4-2680 | 1.101 | 212.9 | 72.9 | 59.25 | 1.205 | 90.8 | 0.468 | 1.899 | 357.5 | 543.1 | 1.010 | 2.788 | -68.61 | 0.438 | 87.3 | 174.4 | -43.0 | 0.597 |
| 4-2180 | 4-2700 | 0.608 | 282.5 | 64.7 | 30.15 | 1.205 | 90.5 | 0.467 | 1.897 | 358.3 | 546.4 | 1.010 | 2.784 | -39.69 | 0.442 | 84.4 | 176.0 | -47.1 | 0.383 |
| 4-2180 | 4-2720 | 0.383 | 304.8 | 47.7 | 16.59 | 1.205 | 90.7 | 0.468 | 1.898 | 357.7 | 549.4 | 1.010 | 2.785 | -26.33 | 0.447 | 81.9 | 174.9 | -43.5 | 0.285 |
| 4-2180 | 4-2740 | 0.284 | 316.8 | 30.5 | 9.50 | 1.206 | 91.1 | 0.469 | 1.901 | 356.5 | 552.2 | 1.010 | 2.792 | -19.44 | 0.452 | 79.6 | 173.1 | -37.9 | 0.241 |
| 4-2180 | 4-2760 | 0.242 | 326.0 | 15.0 | 5.22 | 1.206 | 91.6 | 0.470 | 1.906 | 354.9 | 554.9 | 1.009 | 2.802 | -15.36 | 0.458 | 77.5 | 171.6 | -32.5 | 0.220 |
| 4-2180 | 4-2780 | 0.229 | 333.9 | 2.6 | 2.36 | 1.207 | 92.2 | 0.473 | 1.912 | 353.0 | 557.3 | 1.008 | 2.816 | -12.71 | 0.465 | 75.6 | 170.7 | -27.8 | 0.212 |
| 4-2180 | 4-2800 | 0.229 | 341.1 | -6.3 | 0.30 | 1.208 | 92.9 | 0.476 | 1.919 | 351.0 | 559.6 | 1.006 | 2.832 | -10.87 | 0.472 | 73.8 | 170.4 | -23.9 | 0.211 |
| 4-2180 | 4-2820 | 0.236 | 347.7 | -12.3 | -1.27 | 1.209 | 93.7 | 0.479 | 1.928 | 348.7 | 561.8 | 1.004 | 2.852 | -9.52 | 0.478 | 72.2 | 170.6 | -20.7 | 0.213 |
| 4-2180 | 4-2840 | 0.246 | 353.8 | -16.2 | -2.51 | 1.210 | 94.5 | 0.483 | 1.938 | 346.2 | 563.9 | 1.001 | 2.874 | -8.51 | 0.485 | 70.7 | 171.5 | -18.0 | 0.219 |
| 4-2180 | 4-2860 | 0.259 | 359.4 | -18.4 | -3.53 | 1.211 | 95.4 | 0.488 | 1.948 | 343.5 | 565.8 | 0.997 | 2.899 | -7.73 | 0.492 | 69.3 | 172.8 | -15.9 | 0.226 |
| 4-2180 | 4-2880 | 0.274 | 4.6 | -19.5 | -4.39 | 1.212 | 96.4 | 0.494 | 1.959 | 340.6 | 567.5 | 0.991 | 2.926 | -7.11 | 0.499 | 67.9 | 174.5 | -14.1 | 0.235 |
| 4-2180 | 4-2900 | 0.290 | 9.4 | -19.8 | -5.14 | 1.213 | 97.4 | 0.500 | 1.970 | 337.6 | 569.2 | 0.985 | 2.955 | -6.63 | 0.505 | 66.6 | 176.6 | -12.6 | 0.245 |
| 4-2190 | 4-2350 | 0.615 | 2.3 | -30.6 | -11.15 | 1.538 | 95.8 | 1.390 | -2.571 | 350.1 | 457.9 | 1.004 | --- | 3.76 | 1.031 | 149.6 | 194.1 | 2.2 | 0.904 |
| 4-2190 | 4-2370 | 0.532 | 1.6 | -35.3 | -11.41 | 1.453 | 94.1 | 1.136 | -7.405 | 352.3 | 463.9 | 1.008 | --- | 3.84 | 0.900 | 146.6 | 195.4 | 2.5 | 0.771 |
| 4-2190 | 4-2390 | 0.473 | 0.5 | -40.3 | -11.69 | 1.391 | 92.5 | 0.958 | 24.183 | 354.9 | 470.2 | 1.010 | --- | 3.95 | 0.797 | 143.3 | 196.5 | 2.8 | 0.664 |
| 4-2190 | 4-2410 | 0.432 | 358.9 | -45.3 | -11.98 | 1.345 | 91.1 | 0.830 | 5.959 | 357.6 | 476.6 | 1.012 | --- | 4.09 | 0.714 | 139.8 | 197.5 | 3.3 | 0.577 |
| 4-2190 | 4-2430 | 0.404 | 357.2 | -50.1 | -12.30 | 1.310 | 89.9 | 0.737 | 3.844 | 0.3 | 123.1 | --- | --- | 4.25 | 0.648 | 135.9 | 198.4 | 3.8 | 0.504 |
| 4-2190 | 4-2450 | 0.386 | 355.3 | -54.5 | -12.65 | 1.283 | 88.8 | 0.668 | 3.044 | 2.9 | 129.5 | --- | --- | 4.45 | 0.594 | 131.8 | 199.0 | 4.5 | 0.442 |
| 4-2190 | 4-2470 | 0.375 | 353.5 | -58.5 | -13.04 | 1.263 | 88.0 | 0.616 | 2.633 | 5.4 | 135.7 | --- | --- | 4.69 | 0.552 | 127.6 | 199.3 | 5.3 | 0.390 |
| 4-2190 | 4-2490 | 0.370 | 352.1 | -62.0 | -13.48 | 1.248 | 87.2 | 0.578 | 2.389 | 7.5 | 141.7 | --- | --- | 4.99 | 0.518 | 123.2 | 199.3 | 6.3 | 0.346 |
| 4-2190 | 4-2510 | 0.369 | 351.3 | -65.1 | -13.98 | 1.236 | 86.7 | 0.549 | 2.232 | 9.4 | 147.4 | --- | --- | 5.35 | 0.491 | 118.8 | 198.9 | 7.5 | 0.308 |
| 4-2190 | 4-2530 | 0.372 | 351.4 | -67.9 | -14.57 | 1.227 | 86.3 | 0.527 | 2.126 | 10.9 | 152.8 | --- | --- | 5.80 | 0.471 | 114.4 | 198.1 | 9.0 | 0.276 |
| 4-2190 | 4-2550 | 0.378 | 352.9 | -70.3 | 15.28 | 1.220 | 86.0 | 0.510 | 2.052 | 12.0 | 157.8 | --- | --- | 6.38 | 0.456 | 110.1 | 196.7 | 11.0 | 0.250 |
| 4-2190 | 4-2570 | 0.388 | 356.3 | -72.7 | -16.15 | 1.215 | 85.8 | 0.498 | 2.000 | 12.8 | 162.5 | --- | --- | 7.12 | 0.445 | 105.9 | 194.8 | 13.4 | 0.229 |
| 4-2190 | 4-2590 | 0.403 | 2.5 | -74.8 | -17.27 | 1.211 | 85.7 | 0.489 | 1.963 | 13.2 | 166.9 | --- | --- | 8.11 | 0.438 | 101.9 | 192.4 | 16.4 | 0.213 |
| 4-2190 | 4-2610 | 0.424 | 13.1 | -76.8 | -18.78 | 1.208 | 85.7 | 0.482 | 1.936 | 13.3 | 171.0 | --- | --- | 9.48 | 0.434 | 98.1 | 189.5 | 20.3 | 0.204 |
| 4-2190 | 4-2630 | 0.457 | 30.7 | -78.2 | -20.92 | 1.206 | 85.8 | 0.477 | 1.918 | 13.1 | 174.9 | --- | --- | 11.49 | 0.433 | 94.6 | 186.1 | 25.2 | 0.202 |
| 4-2190 | 4-2650 | 0.511 | 56.9 | -78.0 | -24.27 | 1.205 | 85.9 | 0.473 | 1.906 | 12.7 | 178.5 | --- | --- | 14.71 | 0.433 | 91.4 | 182.5 | 31.4 | 0.211 |
| 4-2190 | 4-2670 | 0.611 | 86.7 | -74.6 | -30.25 | 1.204 | 86.1 | 0.471 | 1.899 | 12.1 | 181.9 | --- | 2.793 | 20.55 | 0.436 | 88.3 | 178.9 | 39.0 | 0.243 |
| 4-2190 | 4-2690 | 0.838 | 112.3 | -65.0 | -43.54 | 1.203 | 86.3 | 0.469 | 1.896 | 11.6 | 185.1 | --- | 2.786 | 33.72 | 0.439 | 85.5 | 176.0 | 46.2 | 0.337 |
| 4-2190 | 4-2710 | 1.458 | 134.0 | -40.9 | -82.81 | 1.203 | 86.2 | 0.470 | 1.896 | 12.1 | 188.3 | --- | 2.786 | 72.85 | 0.444 | 82.8 | 176.3 | 41.8 | 0.632 |
| 4-2190 | 4-2730 | 0.743 | 260.9 | 66.0 | 38.02 | 1.204 | 88.2 | 0.467 | 1.898 | 5.7 | 190.5 | --- | 2.785 | -48.12 | 0.449 | 81.0 | 177.3 | -46.9 | 0.452 |
| 4-2190 | 4-2750 | 0.360 | 302.7 | 43.3 | 15.12 | 1.204 | 88.4 | 0.468 | 1.902 | 4.9 | 193.3 | --- | 2.793 | -25.35 | 0.455 | 78.8 | 174.4 | -42.5 | 0.283 |
| 4-2190 | 4-2770 | 0.249 | 318.7 | 18.3 | 6.36 | 1.205 | 88.9 | 0.470 | 1.908 | 3.3 | 195.8 | --- | 2.805 | -16.73 | 0.462 | 76.8 | 172.2 | -34.2 | 0.230 |
| 4-2190 | 4-2790 | 0.221 | 329.6 | -1.1 | 1.92 | 1.206 | 89.6 | 0.472 | 1.916 | 1.4 | 198.2 | --- | 2.819 | -12.43 | 0.468 | 75.0 | 171.2 | -27.2 | 0.213 |
| 4-2190 | 4-2810 | 0.220 | 338.5 | -13.5 | -0.76 | 1.207 | 90.2 | 0.474 | 1.924 | 359.2 | 560.5 | 1.012 | 2.836 | -9.90 | 0.475 | 73.4 | 171.0 | -22.0 | 0.209 |
| 4-2190 | 4-2830 | 0.228 | 346.4 | -20.7 | -2.56 | 1.208 | 91.0 | 0.477 | 1.934 | 356.8 | 562.6 | 1.012 | 2.855 | -8.24 | 0.482 | 71.9 | 171.5 | -18.2 | 0.211 |
| 4-2190 | 4-2850 | 0.238 | 353.5 | -24.7 | -3.87 | 1.209 | 91.9 | 0.480 | 1.944 | 354.3 | 564.6 | 1.011 | 2.877 | -7.09 | 0.489 | 70.5 | 172.5 | -15.3 | 0.216 |
| 4-2190 | 4-2870 | 0.250 | 359.9 | -26.7 | -4.87 | 1.210 | 92.8 | 0.484 | 1.955 | 351.5 | 566.5 | 1.009 | 2.901 | -6.24 | 0.496 | 69.2 | 173.9 | -13.1 | 0.223 |
| 4-2190 | 4-2890 | 0.262 | 5.8 | -27.2 | -5.67 | 1.211 | 93.7 | 0.488 | 1.966 | 348.6 | 568.2 | 1.006 | 2.927 | -5.60 | 0.502 | 67.9 | 175.8 | -11.3 | 0.232 |
| 4-2190 | 4-2910 | 0.275 | 11.2 | -26.9 | -6.34 | 1.212 | 94.8 | 0.494 | 1.979 | 345.5 | 569.9 | 1.002 | 2.955 | -5.11 | 0.509 | 66.7 | 178.1 | -9.9 | 0.241 |
| 4-2200 | 4-2360 | 0.573 | 357.9 | -33.4 | -10.78 | 1.510 | 90.7 | 1.314 | -3.233 | 358.8 | 459.1 | 1.014 | --- | 1.90 | 0.992 | 148.6 | 195.6 | 1.1 | 0.862 |
| 4-2200 | 4-2380 | 0.499 | 355.6 | -38.1 | -10.91 | 1.431 | 89.2 | 1.077 | 13.252 | 1.5 | 105.6 | --- | --- | 1.93 | 0.867 | 145.6 | 196.6 | 1.3 | 0.736 |
| 4-2200 | 4-2400 | 0.448 | 352.6 | -42.8 | -11.04 | 1.373 | 87.9 | 0.912 | 11.451 | 4.4 | 112.2 | --- | --- | 1.96 | 0.768 | 142.2 | 197.6 | 1.5 | 0.633 |
| 4-2200 | 4-2420 | 0.414 | 349.1 | -47.2 | -11.18 | 1.330 | 86.7 | 0.794 | 4.905 | 7.5 | 119.0 | --- | --- | 2.01 | 0.689 | 138.5 | 198.5 | 1.7 | 0.549 |
| 4-2200 | 4-2440 | 0.390 | 345.2 | -51.2 | -11.33 | 1.297 | 85.7 | 0.709 | 3.462 | 10.4 | 125.7 | --- | --- | 2.07 | 0.626 | 134.5 | 199.1 | 1.9 | 0.479 |
| 4-2200 | 4-2460 | 0.375 | 341.2 | -54.5 | -11.48 | 1.273 | 84.8 | 0.647 | 2.844 | 13.2 | 132.3 | --- | --- | 2.14 | 0.576 | 130.3 | 199.5 | 2.2 | 0.420 |
| 4-2200 | 4-2480 | 0.366 | 337.4 | -57.3 | -11.65 | 1.254 | 84.1 | 0.601 | 2.509 | 15.7 | 138.6 | --- | --- | 2.23 | 0.535 | 125.9 | 199.6 | 2.6 | 0.370 |
| 4-2200 | 4-2500 | 0.360 | 334.1 | -59.6 | -11.84 | 1.240 | 83.6 | 0.568 | 2.304 | 17.9 | 144.6 | --- | --- | 2.33 | 0.504 | 121.5 | 199.4 | 3.1 | 0.328 |
| 4-2200 | 4-2520 | 0.357 | 331.3 | -61.4 | -12.05 | 1.229 | 83.1 | 0.542 | 2.171 | 19.6 | 150.3 | --- | --- | 2.46 | 0.479 | 117.0 | 198.7 | 3.6 | 0.291 |
| 4-2200 | 4-2540 | 0.355 | 329.3 | -63.0 | -12.28 | 1.221 | 82.8 | 0.524 | 2.080 | 21.0 | 155.5 | --- | --- | 2.62 | 0.461 | 112.5 | 197.6 | 4.3 | 0.261 |
| 4-2200 | 4-2560 | 0.355 | 328.1 | -64.4 | -12.56 | 1.215 | 82.6 | 0.509 | 2.017 | 21.9 | 160.4 | --- | --- | 2.82 | 0.448 | 108.2 | 196.0 | 5.1 | 0.235 |
| 4-2200 | 4-2580 | 0.357 | 327.9 | -65.8 | -12.88 | 1.210 | 82.6 | 0.499 | 1.972 | 22.5 | 165.0 | --- | --- | 3.07 | 0.439 | 104.0 | 193.9 | 6.1 | 0.214 |
| 4-2200 | 4-2600 | 0.359 | 328.7 | -67.1 | -13.27 | 1.207 | 82.6 | 0.491 | 1.941 | 22.7 | 169.2 | --- | --- | 3.39 | 0.434 | 100.1 | 191.4 | 7.3 | 0.198 |
| 4-2200 | 4-2620 | 0.363 | 330.6 | -68.5 | -13.75 | 1.205 | 82.7 | 0.485 | 1.919 | 22.6 | 173.1 | --- | --- | 3.80 | 0.431 | 96.4 | 188.4 | 8.8 | 0.185 |
| 4-2200 | 4-2640 | 0.370 | 333.8 | -70.0 | -14.39 | 1.203 | 82.9 | 0.480 | 1.904 | 22.1 | 176.8 | --- | --- | 4.37 | 0.431 | 93.0 | 185.2 | 10.7 | 0.177 |
| 4-2200 | 4-2660 | 0.380 | 339.0 | -71.8 | -15.26 | 1.202 | 83.1 | 0.477 | 1.895 | 21.4 | 180.2 | --- | 2.799 | 5.17 | 0.432 | 89.8 | 181.9 | 13.1 | 0.172 |
| 4-2200 | 4-2680 | 0.396 | 347.2 | -74.1 | -16.55 | 1.201 | 83.4 | 0.475 | 1.891 | 20.5 | 183.4 | --- | 2.788 | 6.39 | 0.435 | 86.9 | 178.8 | 16.3 | 0.172 |
| 4-2200 | 4-2700 | 0.426 | 2.1 | -76.8 | -18.67 | 1.201 | 83.8 | 0.473 | 1.890 | 19.3 | 186.4 | --- | 2.784 | 8.44 | 0.440 | 84.3 | 176.0 | 21.1 | 0.178 |
| 4-2200 | 4-2720 | 0.492 | 36.7 | -79.5 | -22.88 | 1.201 | 84.3 | 0.472 | 1.892 | 17.9 | 189.3 | --- | 2.785 | 12.57 | 0.445 | 81.9 | 174.0 | 28.9 | 0.198 |
| 4-2200 | 4-2740 | 0.695 | 102.0 | -74.0 | -35.07 | 1.202 | 84.7 | 0.472 | 1.896 | 16.5 | 192.0 | --- | 2.791 | 24.69 | 0.451 | 79.6 | 174.2 | 41.9 | 0.277 |
| 4-2200 | 4-2780 | 0.307 | 307.0 | 30.7 | 10.92 | 1.203 | 86.2 | 0.472 | 1.909 | 11.8 | 196.9 | --- | 2.810 | -21.44 | 0.464 | 75.9 | 173.5 | -38.7 | 0.263 |
| 4-2200 | 4-2800 | 0.225 | 326.4 | -8.6 | 0.87 | 1.204 | 86.9 | 0.474 | 1.917 | 9.8 | 199.2 | --- | 2.825 | -11.46 | 0.471 | 74.3 | 171.4 | -25.2 | 0.212 |
| 4-2200 | 4-2820 | 0.229 | 337.6 | -25.9 | -2.88 | 1.205 | 87.6 | 0.475 | 1.927 | 7.5 | 201.4 | --- | 2.842 | -7.79 | 0.478 | 72.7 | 171.2 | -17.6 | 0.204 |
| 4-2200 | 4-2840 | 0.240 | 346.4 | -33.2 | -4.84 | 1.207 | 88.4 | 0.477 | 1.937 | 5.0 | 203.4 | --- | 2.862 | -5.90 | 0.485 | 71.3 | 172.0 | -13.2 | 0.207 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THETI | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2200 | 4-2860 | 0.250 | 354.0 | -36.3 | -6.06 | 1.208 | 89.3 | 0.480 | 1.949 | 2.3 | 205.4 | --- | 2.883 | -4.77 | 0.492 | 70.1 | 173.3 | -10.4 | 0.213 |
| 4-2200 | 4-2880 | 0.259 | 0.8 | -37.2 | -6.89 | 1.209 | 90.2 | 0.483 | 1.960 | 359.4 | 567.2 | 1.014 | 2.907 | -4.01 | 0.499 | 68.8 | 175.0 | -8.5 | 0.221 |
| 4-2200 | 4-2900 | 0.268 | 7.0 | -36.9 | -7.51 | 1.210 | 91.2 | 0.486 | 1.973 | 356.4 | 568.9 | 1.014 | 2.932 | -3.48 | 0.506 | 67.7 | 177.1 | -7.1 | 0.230 |
| 4-2200 | 4-2920 | 0.277 | 12.7 | -35.7 | -7.99 | 1.212 | 92.2 | 0.490 | 1.986 | 353.3 | 570.6 | 1.012 | 2.959 | -3.09 | 0.512 | 66.7 | 179.5 | -6.1 | 0.239 |
| 4-2210 | 4-2350 | 0.647 | 354.1 | -31.9 | -10.60 | 1.585 | 86.5 | 1.550 | -1.841 | 5.8 | 94.8 | --- | --- | 0.12 | 1.103 | 150.6 | 195.5 | 0.1 | 0.974 |
| 4-2210 | 4-2370 | 0.552 | 350.9 | -36.3 | -10.61 | 1.482 | 85.3 | 1.228 | -4.427 | 8.6 | 101.3 | --- | --- | 0.12 | 0.949 | 147.8 | 196.5 | 0.1 | 0.821 |
| 4-2210 | 4-2390 | 0.489 | 346.9 | -40.5 | -10.62 | 1.408 | 84.1 | 1.01 | 283.027 | 11.7 | 108.2 | --- | --- | 0.12 | 0.830 | 144.6 | 197.4 | 0.1 | 0.699 |
| 4-2210 | 4-2410 | 0.447 | 342.3 | -44.4 | -10.63 | 1.354 | 83.0 | 0.864 | 7.326 | 15.0 | 115.3 | --- | --- | 0.12 | 0.736 | 141.0 | 198.2 | 0.1 | 0.602 |
| 4-2210 | 4-2430 | 0.418 | 337.3 | -47.6 | -10.64 | 1.314 | 82.1 | 0.759 | 4.118 | 18.4 | 122.4 | --- | --- | 0.12 | 0.661 | 137.2 | 198.8 | 0.1 | 0.522 |
| 4-2210 | 4-2450 | 0.400 | 332.4 | -50.2 | -10.64 | 1.284 | 81.3 | 0.684 | 3.124 | 21.5 | 129.3 | --- | --- | 0.12 | 0.601 | 133.1 | 199.2 | 0.1 | 0.455 |
| 4-2210 | 4-2470 | 0.387 | 327.8 | -52.2 | -10.65 | 1.262 | 80.6 | 0.630 | 2.652 | 24.4 | 136.0 | --- | --- | 0.12 | 0.554 | 128.7 | 199.4 | 0.1 | 0.399 |
| 4-2210 | 4-2490 | 0.379 | 323.8 | -53.6 | -10.66 | 1.245 | 80.1 | 0.591 | 2.384 | 26.8 | 142.3 | --- | --- | 0.13 | 0.517 | 124.2 | 199.2 | 0.2 | 0.351 |
| 4-2210 | 4-2510 | 0.373 | 320.5 | -54.7 | -10.67 | 1.232 | 79.7 | 0.562 | 2.216 | 28.9 | 148.2 | --- | --- | 0.13 | 0.488 | 119.6 | 198.6 | 0.2 | 0.311 |
| 4-2210 | 4-2530 | 0.369 | 318.0 | -55.4 | -10.68 | 1.223 | 79.4 | 0.541 | 2.105 | 30.4 | 153.7 | --- | --- | 0.14 | 0.466 | 115.0 | 197.6 | 0.2 | 0.277 |
| 4-2210 | 4-2550 | 0.365 | 316.3 | -56.0 | -10.69 | 1.215 | 79.2 | 0.525 | 2.029 | 31.6 | 158.7 | --- | --- | 0.15 | 0.450 | 110.5 | 196.1 | 0.2 | 0.249 |
| 4-2210 | 4-2570 | 0.362 | 315.3 | -56.5 | -10.71 | 1.210 | 79.2 | 0.513 | 1.977 | 32.3 | 163.4 | --- | --- | 0.15 | 0.438 | 106.1 | 194.2 | 0.3 | 0.225 |
| 4-2210 | 4-2590 | 0.359 | 314.9 | -56.9 | -10.72 | 1.206 | 79.2 | 0.504 | 1.940 | 32.6 | 167.7 | --- | --- | 0.16 | 0.431 | 102.0 | 191.7 | 0.3 | 0.206 |
| 4-2210 | 4-2610 | 0.356 | 315.2 | -57.2 | -10.74 | 1.203 | 79.3 | 0.497 | 1.914 | 32.5 | 171.7 | --- | --- | 0.18 | 0.427 | 98.1 | 188.9 | 0.4 | 0.191 |
| 4-2210 | 4-2630 | 0.353 | 316.0 | -57.5 | -10.76 | 1.201 | 79.5 | 0.492 | 1.898 | 32.1 | 175.4 | --- | --- | 0.19 | 0.426 | 94.4 | 185.8 | 0.5 | 0.180 |
| 4-2210 | 4-2650 | 0.349 | 317.4 | -57.8 | -10.79 | 1.200 | 79.8 | 0.488 | 1.887 | 31.5 | 178.8 | --- | --- | 0.22 | 0.427 | 91.1 | 182.6 | 0.5 | 0.172 |
| 4-2210 | 4-2670 | 0.346 | 319.3 | -58.0 | -10.82 | 1.199 | 80.1 | 0.485 | 1.881 | 30.5 | 182.1 | --- | 2.793 | 0.24 | 0.430 | 88.0 | 179.5 | 0.6 | 0.167 |
| 4-2210 | 4-2690 | 0.342 | 321.7 | -58.3 | -10.86 | 1.199 | 80.5 | 0.482 | 1.880 | 29.4 | 185.1 | --- | 2.786 | 0.28 | 0.434 | 85.3 | 176.6 | 0.7 | 0.165 |
| 4-2210 | 4-2710 | 0.339 | 324.6 | -58.5 | -10.93 | 1.199 | 81.0 | 0.481 | 1.881 | 27.9 | 188.0 | --- | 2.785 | 0.34 | 0.439 | 82.7 | 174.2 | 0.9 | 0.166 |
| 4-2210 | 4-2730 | 0.336 | 328.1 | -58.8 | -11.02 | 1.200 | 81.5 | 0.479 | 1.885 | 26.3 | 190.7 | --- | 2.789 | 0.43 | 0.445 | 80.5 | 172.2 | 1.1 | 0.168 |
| 4-2210 | 4-2750 | 0.334 | 332.1 | -59.1 | -11.19 | 1.200 | 82.1 | 0.479 | 1.891 | 24.5 | 193.2 | --- | 2.796 | 0.59 | 0.452 | 78.4 | 170.9 | 1.5 | 0.172 |
| 4-2210 | 4-2770 | 0.334 | 337.2 | -59.8 | -11.57 | 1.201 | 82.7 | 0.478 | 1.898 | 22.6 | 195.7 | --- | 2.806 | 0.97 | 0.459 | 76.5 | 170.1 | 2.4 | 0.177 |
| 4-2210 | 4-2790 | 0.353 | 346.4 | -63.8 | -13.37 | 1.202 | 83.4 | 0.478 | 1.907 | 20.4 | 198.0 | --- | 2.819 | 2.77 | 0.466 | 74.8 | 170.0 | 6.8 | 0.184 |
| 4-2210 | 4-2810 | 0.280 | 337.3 | -46.1 | -7.46 | 1.203 | 84.2 | 0.479 | 1.917 | 18.1 | 200.2 | --- | 2.835 | -3.15 | 0.473 | 73.3 | 170.4 | -7.5 | 0.192 |
| 4-2210 | 4-2830 | 0.299 | 346.8 | -52.3 | -9.61 | 1.205 | 85.0 | 0.480 | 1.928 | 15.6 | 202.3 | --- | 2.852 | -1.00 | 0.480 | 71.9 | 171.1 | -2.3 | 0.197 |
| 4-2210 | 4-2850 | 0.301 | 353.0 | -52.3 | -10.02 | 1.206 | 85.8 | 0.481 | 1.939 | 13.0 | 204.3 | --- | 2.872 | -0.59 | 0.488 | 70.6 | 172.4 | -1.3 | 0.205 |
| 4-2210 | 4-2870 | 0.300 | 358.7 | -51.4 | -10.20 | 1.207 | 86.7 | 0.482 | 1.952 | 10.2 | 206.2 | --- | 2.893 | -0.42 | 0.495 | 69.4 | 174.0 | -0.9 | 0.213 |
| 4-2210 | 4-2890 | 0.300 | 4.2 | -49.8 | -10.30 | 1.209 | 87.6 | 0.484 | 1.964 | 7.3 | 207.9 | --- | 2.916 | -0.33 | 0.502 | 68.4 | 176.0 | -0.7 | 0.222 |
| 4-2210 | 4-2910 | 0.300 | 9.6 | -47.9 | -10.36 | 1.210 | 88.6 | 0.487 | 1.978 | 4.2 | 209.6 | --- | 2.941 | -0.27 | 0.509 | 67.3 | 178.3 | -0.5 | 0.231 |
| 4-2210 | 4-2930 | 0.301 | 14.8 | -45.6 | -10.41 | 1.211 | 89.7 | 0.490 | 1.991 | 1.0 | 211.2 | --- | 2.967 | -0.23 | 0.515 | 66.4 | 180.9 | -0.5 | 0.241 |
| 4-2220 | 4-2360 | 0.640 | 346.9 | -34.4 | -10.73 | 1.548 | 80.6 | 1.425 | -2.337 | 16.1 | 97.6 | --- | --- | -1.65 | 1.050 | 150.1 | 196.2 | -0.9 | 0.926 |
| 4-2220 | 4-2380 | 0.558 | 342.2 | -38.2 | -10.62 | 1.452 | 79.7 | 1.138 | -7.142 | 19.4 | 104.7 | --- | --- | -1.64 | 0.903 | 147.1 | 197.0 | -1.0 | 0.779 |
| 4-2220 | 4-2400 | 0.505 | 337.1 | -41.4 | -10.51 | 1.384 | 78.8 | 0.948 | 18.779 | 23.1 | 112.0 | --- | --- | -1.64 | 0.790 | 143.7 | 197.7 | -1.2 | 0.664 |
| 4-2220 | 4-2420 | 0.470 | 331.8 | -44.0 | -10.40 | 1.334 | 78.0 | 0.818 | 5.320 | 26.8 | 119.5 | --- | --- | -1.64 | 0.701 | 140.0 | 198.2 | -1.3 | 0.571 |
| 4-2220 | 4-2440 | 0.446 | 326.7 | -45.9 | -10.29 | 1.298 | 77.3 | 0.728 | 3.522 | 30.3 | 126.8 | --- | --- | -1.65 | 0.630 | 136.0 | 198.6 | -1.5 | 0.495 |
| 4-2220 | 4-2460 | 0.431 | 322.2 | -47.2 | -10.18 | 1.271 | 76.7 | 0.665 | 2.829 | 33.6 | 133.9 | --- | --- | -1.66 | 0.574 | 131.6 | 198.6 | -1.7 | 0.432 |
| 4-2220 | 4-2480 | 0.420 | 318.3 | -48.0 | -10.07 | 1.250 | 76.2 | 0.620 | 2.472 | 36.4 | 140.5 | --- | --- | -1.69 | 0.530 | 127.1 | 198.4 | -1.9 | 0.379 |
| 4-2220 | 4-2500 | 0.412 | 315.3 | -48.5 | -9.95 | 1.235 | 75.9 | 0.587 | 2.261 | 38.7 | 146.6 | --- | --- | -1.72 | 0.496 | 122.3 | 197.8 | -2.2 | 0.334 |
| 4-2220 | 4-2520 | 0.406 | 313.0 | -48.8 | -9.83 | 1.224 | 75.7 | 0.563 | 2.127 | 40.4 | 152.3 | --- | --- | -1.76 | 0.469 | 117.6 | 196.9 | -2.5 | 0.297 |
| 4-2220 | 4-2540 | 0.400 | 311.4 | -48.9 | -9.69 | 1.215 | 75.5 | 0.546 | 2.037 | 41.7 | 157.5 | --- | --- | -1.82 | 0.450 | 112.9 | 195.4 | -2.8 | 0.266 |
| 4-2220 | 4-2560 | 0.395 | 310.4 | -48.9 | -9.55 | 1.209 | 75.5 | 0.532 | 1.975 | 42.5 | 162.2 | --- | --- | -1.88 | 0.436 | 108.2 | 193.5 | -3.3 | 0.240 |
| 4-2220 | 4-2580 | 0.390 | 309.9 | -48.7 | -9.39 | 1.204 | 75.6 | 0.522 | 1.933 | 42.9 | 166.6 | --- | --- | -1.97 | 0.427 | 103.8 | 191.2 | -3.7 | 0.219 |
| 4-2220 | 4-2600 | 0.384 | 309.9 | -48.5 | -9.22 | 1.201 | 75.7 | 0.515 | 1.904 | 42.9 | 170.6 | --- | --- | -2.07 | 0.422 | 99.7 | 188.5 | -4.3 | 0.202 |
| 4-2220 | 4-2620 | 0.378 | 310.3 | -48.2 | -9.02 | 1.199 | 76.0 | 0.509 | 1.885 | 42.5 | 174.3 | --- | --- | -2.19 | 0.420 | 95.8 | 185.5 | -4.8 | 0.190 |
| 4-2220 | 4-2640 | 0.371 | 311.1 | -47.8 | -8.79 | 1.198 | 76.3 | 0.504 | 1.873 | 41.9 | 177.8 | --- | --- | -2.35 | 0.420 | 92.3 | 182.4 | -5.5 | 0.181 |
| 4-2220 | 4-2660 | 0.364 | 312.1 | -47.3 | -8.53 | 1.197 | 76.6 | 0.500 | 1.867 | 40.9 | 181.0 | --- | 2.800 | -2.55 | 0.423 | 89.0 | 179.3 | -6.1 | 0.175 |
| 4-2220 | 4-2680 | 0.356 | 313.5 | -46.6 | -8.21 | 1.197 | 77.0 | 0.497 | 1.864 | 39.8 | 184.0 | --- | 2.791 | -2.80 | 0.427 | 86.1 | 176.5 | -6.9 | 0.173 |
| 4-2220 | 4-2700 | 0.347 | 315.0 | -45.5 | -7.82 | 1.197 | 77.5 | 0.494 | 1.866 | 38.4 | 186.9 | --- | 2.788 | -3.13 | 0.432 | 83.4 | 174.0 | -7.8 | 0.173 |
| 4-2220 | 4-2720 | 0.337 | 316.7 | -44.1 | -7.30 | 1.197 | 78.1 | 0.492 | 1.870 | 36.8 | 189.5 | --- | 2.790 | -3.57 | 0.438 | 81.0 | 172.1 | -8.9 | 0.175 |
| 4-2220 | 4-2740 | 0.325 | 318.5 | -41.9 | -6.61 | 1.198 | 78.6 | 0.490 | 1.876 | 35.0 | 192.1 | --- | 2.795 | -4.20 | 0.445 | 78.8 | 170.7 | -10.3 | 0.179 |
| 4-2220 | 4-2760 | 0.311 | 320.0 | -38.4 | -5.60 | 1.199 | 79.3 | 0.489 | 1.883 | 33.1 | 194.5 | --- | 2.804 | -5.15 | 0.452 | 76.9 | 170.0 | -12.3 | 0.185 |
| 4-2220 | 4-2780 | 0.295 | 320.9 | -32.3 | -3.97 | 1.200 | 80.0 | 0.488 | 1.893 | 31.0 | 196.8 | --- | 2.816 | -6.71 | 0.459 | 75.1 | 169.9 | -15.5 | 0.194 |
| 4-2220 | 4-2800 | 0.278 | 319.7 | -19.5 | -0.85 | 1.201 | 80.7 | 0.487 | 1.903 | 28.7 | 199.0 | --- | 2.831 | -9.77 | 0.467 | 73.6 | 170.6 | -21.2 | 0.211 |
| 4-2220 | 4-2820 | 0.306 | 310.7 | 13.9 | 7.58 | 1.202 | 81.4 | 0.487 | 1.914 | 26.4 | 201.2 | --- | 2.847 | -18.13 | 0.474 | 72.1 | 173.5 | -32.9 | 0.258 |
| 4-2220 | 4-2860 | 0.642 | 74.2 | -78.4 | -31.57 | 1.205 | 83.3 | 0.487 | 1.939 | 20.5 | 205.0 | --- | 2.883 | 21.15 | 0.490 | 69.8 | 177.8 | 35.0 | 0.289 |
| 4-2220 | 4-2880 | 0.463 | 23.5 | -71.1 | -20.78 | 1.207 | 84.2 | 0.488 | 1.953 | 17.8 | 206.9 | --- | 2.905 | 10.43 | 0.497 | 68.7 | 176.3 | 20.4 | 0.241 |
| 4-2220 | 4-2900 | 0.405 | 16.8 | -64.7 | -17.18 | 1.208 | 85.1 | 0.489 | 1.967 | 14.8 | 208.6 | --- | 2.928 | 6.89 | 0.504 | 67.7 | 177.8 | 13.6 | 0.237 |
| 4-2220 | 4-2920 | 0.375 | 17.0 | -60.0 | -15.38 | 1.210 | 86.1 | 0.490 | 1.981 | 11.7 | 210.2 | --- | 2.952 | 5.16 | 0.511 | 66.8 | 180.0 | 10.1 | 0.242 |
| 4-2220 | 4-2940 | 0.357 | 19.5 | -56.0 | -14.28 | 1.211 | 87.2 | 0.492 | 1.995 | 8.5 | 211.8 | --- | 2.978 | 4.14 | 0.518 | 66.0 | 182.6 | 7.9 | 0.249 |
| 4-2230 | 4-2390 | 0.592 | 333.8 | -38.4 | -10.80 | 1.422 | 73.8 | 1.05 | 118.504 | 31.6 | 109.4 | --- | --- | -3.42 | 0.855 | 146.7 | 196.8 | -2.2 | 0.739 |
| 4-2230 | 4-2410 | 0.546 | 328.5 | -40.5 | -10.57 | 1.359 | 73.2 | 0.889 | 8.336 | 35.7 | 117.2 | --- | --- | -3.38 | 0.747 | 143.1 | 197.3 | -2.4 | 0.630 |
| 4-2230 | 4-2430 | 0.515 | 323.7 | -41.9 | -10.35 | 1.314 | 72.7 | 0.780 | 4.154 | 39.7 | 125.0 | --- | --- | -3.35 | 0.663 | 139.1 | 197.5 | -2.7 | 0.542 |
| 4-2230 | 4-2450 | 0.495 | 319.5 | -42.8 | -10.13 | 1.281 | 72.2 | 0.706 | 3.063 | 43.4 | 132.4 | --- | --- | -3.34 | 0.596 | 134.8 | 197.5 | -3.0 | 0.470 |
| 4-2230 | 4-2470 | 0.481 | 316.1 | -43.2 | -9.91 | 1.257 | 71.9 | 0.654 | 2.576 | 46.5 | 139.3 | --- | --- | -3.34 | 0.544 | 130.2 | 197.2 | -3.4 | 0.410 |
| 4-2230 | 4-2490 | 0.470 | 313.4 | -43.4 | -9.68 | 1.239 | 71.7 | 0.617 | 2.308 | 49.0 | 145.7 | --- | --- | -3.36 | 0.503 | 125.4 | 196.6 | -3.8 | 0.361 |
| 4-2230 | 4-2510 | 0.462 | 311.4 | -43.4 | -9.45 | 1.225 | 71.5 | 0.591 | 2.144 | 50.9 | 151.5 | --- | --- | -3.40 | 0.472 | 120.4 | 195.6 | -4.3 | 0.320 |
| 4-2230 | 4-2530 | 0.454 | 310.1 | -43.2 | -9.21 | 1.215 | 71.5 | 0.572 | 2.039 | 52.3 | 156.7 | --- | --- | -3.45 | 0.449 | 115.5 | 194.2 | -4.9 | 0.285 |
| 4-2230 | 4-2550 | 0.447 | 309.2 | -42.9 | -8.96 | 1.208 | 71.5 | 0.557 | 1.968 | 53.2 | 161.5 | --- | --- | -3.52 | 0.432 | 110.6 | 192.3 | -5.5 | 0.257 |
| 4-2230 | 4-2570 | 0.440 | 308.8 | -42.6 | -8.70 | 1.203 | 71.6 | 0.546 | 1.920 | 53.6 | 165.9 | --- | --- | -3.61 | 0.421 | 105.8 | 190.0 | -6.3 | 0.234 |
| 4-2230 | 4-2590 | 0.433 | 308.7 | -42.1 | -8.42 | 1.199 | 71.8 | 0.538 | 1.887 | 53.6 | 169.9 | --- | --- | -3.73 | 0.414 | 101.4 | 187.4 | -7.0 | 0.216 |
| 4-2230 | 4-2610 | 0.425 | 309.0 | -41.6 | -8.12 | 1.196 | 72.1 | 0.531 | 1.866 | 53.2 | 173.5 | --- | --- | -3.87 | 0.411 | 97.2 | 184.5 | -7.8 | 0.203 |
| 4-2230 | 4-2630 | 0.417 | 309.5 | -41.0 | -7.78 | 1.195 | 72.5 | 0.525 | 1.853 | 52.6 | 177.0 | --- | --- | -4.05 | 0.411 | 93.4 | 181.4 | -8.6 | 0.193 |
| 4-2230 | 4-2650 | 0.408 | 310.3 | -40.2 | -7.41 | 1.194 | 72.9 | 0.521 | 1.846 | 51.6 | 180.1 | --- | 2.807 | -4.27 | 0.413 | 89.9 | 178.5 | -9.5 | 0.187 |
| 4-2230 | 4-2670 | 0.399 | 311.3 | -39.2 | -6.99 | 1.194 | 73.3 | 0.517 | 1.844 | 50.4 | 183.1 | --- | 2.796 | -4.55 | 0.417 | 86.7 | 175.7 | -10.4 | 0.183 |
| 4-2230 | 4-2690 | 0.389 | 312.4 | -38.0 | -6.50 | 1.194 | 73.8 | 0.513 | 1.845 | 49.0 | 185.9 | --- | 2.792 | -4.89 | 0.422 | 83.9 | 173.3 | -11.3 | 0.183 |
| 4-2230 | 4-2710 | 0.377 | 313.7 | -36.5 | -5.92 | 1.194 | 74.4 | 0.510 | 1.849 | 47.4 | 188.5 | --- | 2.792 | -5.33 | 0.429 | 81.3 | 171.5 | -12.3 | 0.184 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THETI | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2230 | 4-2730 | 0.366 | 315.0 | -34.5 | -5.22 | 1.195 | 75.0 | 0.508 | 1.856 | 45.6 | 191.1 | --- | 2.797 | -5.89 | 0.436 | 79.0 | 170.1 | -13.5 | 0.188 |
| 4-2230 | 4-2750 | 0.353 | 316.2 | -31.7 | -4.33 | 1.196 | 75.7 | 0.505 | 1.864 | 43.7 | 193.4 | --- | 2.805 | -6.64 | 0.443 | 77.0 | 169.4 | -15.0 | 0.194 |
| 4-2230 | 4-2770 | 0.339 | 317.3 | -27.8 | -3.16 | 1.197 | 76.4 | 0.503 | 1.874 | 41.6 | 195.7 | --- | 2.816 | -7.68 | 0.451 | 75.2 | 169.2 | -16.8 | 0.201 |
| 4-2230 | 4-2790 | 0.326 | 317.9 | -21.9 | -1.52 | 1.199 | 77.1 | 0.501 | 1.885 | 39.4 | 197.9 | --- | 2.830 | -9.17 | 0.459 | 73.6 | 169.7 | -19.4 | 0.212 |
| 4-2230 | 4-2810 | 0.315 | 317.5 | -12.7 | 0.94 | 1.200 | 77.9 | 0.500 | 1.897 | 37.0 | 200.0 | --- | 2.845 | -11.50 | 0.467 | 72.1 | 170.8 | -23.0 | 0.226 |
| 4-2230 | 4-2830 | 0.320 | 314.6 | 2.9 | 5.13 | 1.201 | 78.6 | 0.499 | 1.910 | 34.6 | 202.0 | --- | 2.863 | -15.56 | 0.475 | 70.8 | 173.0 | -28.5 | 0.252 |
| 4-2230 | 4-2850 | 0.394 | 304.5 | 27.7 | 13.84 | 1.203 | 79.4 | 0.498 | 1.923 | 32.2 | 204.0 | --- | 2.882 | -24.13 | 0.483 | 69.6 | 177.6 | -36.8 | 0.309 |
| 4-2230 | 4-2870 | 0.789 | 265.8 | 50.6 | 39.70 | 1.205 | 80.0 | 0.499 | 1.938 | 30.2 | 205.9 | --- | 2.904 | -49.85 | 0.491 | 68.4 | 190.4 | -43.9 | 0.503 |
| 4-2230 | 4-2890 | 1.280 | 158.6 | -62.4 | -70.56 | 1.206 | 82.3 | 0.494 | 1.952 | 23.6 | 207.4 | --- | 2.916 | 60.54 | 0.499 | 68.0 | 197.7 | 43.0 | 0.590 |
| 4-2230 | 4-2910 | 0.731 | 89.2 | -78.5 | -36.65 | 1.208 | 82.8 | 0.495 | 1.967 | 21.7 | 209.2 | --- | 2.941 | 26.77 | 0.506 | 67.0 | 185.9 | 37.5 | 0.344 |
| 4-2230 | 4-2930 | 0.554 | 42.7 | -73.5 | -26.13 | 1.209 | 83.8 | 0.496 | 1.982 | 18.8 | 210.8 | --- | 2.966 | 16.39 | 0.513 | 66.1 | 184.3 | 27.3 | 0.289 |
| 4-2230 | 4-2950 | 0.474 | 31.9 | -67.3 | -21.36 | 1.211 | 84.8 | 0.497 | 1.998 | 15.7 | 212.3 | --- | 2.992 | 11.76 | 0.520 | 65.4 | 185.7 | 20.4 | 0.276 |
| 4-2240 | 4-2400 | 0.650 | 327.2 | -37.3 | -11.17 | 1.392 | 67.7 | 0.9733 | 2.577 | 45.3 | 115.6 | --- | --- | -5.27 | 0.804 | 146.6 | 196.0 | -3.3 | 0.703 |
| 4-2240 | 4-2420 | 0.608 | 322.7 | -38.4 | -10.82 | 1.335 | 67.4 | 0.841 | 5.366 | 49.8 | 123.8 | --- | --- | -5.16 | 0.702 | 142.7 | 196.1 | -3.7 | 0.599 |
| 4-2240 | 4-2440 | 0.580 | 319.0 | -38.9 | -10.47 | 1.294 | 67.2 | 0.754 | 3.403 | 53.8 | 131.5 | --- | --- | -5.07 | 0.622 | 138.4 | 196.0 | -4.1 | 0.516 |
| 4-2240 | 4-2460 | 0.560 | 316.0 | -39.2 | -10.13 | 1.264 | 67.0 | 0.695 | 2.705 | 57.2 | 138.7 | --- | --- | -5.01 | 0.560 | 133.8 | 195.7 | -4.5 | 0.448 |
| 4-2240 | 4-2480 | 0.545 | 313.6 | -39.2 | -9.79 | 1.242 | 66.9 | 0.654 | 2.359 | 59.9 | 145.3 | --- | --- | -4.97 | 0.511 | 128.9 | 195.0 | -5.0 | 0.392 |
| 4-2240 | 4-2500 | 0.533 | 312.0 | -39.0 | -9.46 | 1.226 | 66.9 | 0.625 | 2.160 | 62.0 | 151.2 | --- | --- | -4.96 | 0.474 | 123.7 | 193.9 | -5.6 | 0.346 |
| 4-2240 | 4-2520 | 0.523 | 310.8 | -38.7 | -9.13 | 1.215 | 67.0 | 0.604 | 2.035 | 63.4 | 156.4 | --- | --- | -4.96 | 0.446 | 118.4 | 192.4 | -6.3 | 0.308 |
| 4-2240 | 4-2540 | 0.514 | 310.1 | -38.3 | -8.78 | 1.206 | 67.1 | 0.589 | 1.954 | 64.3 | 161.2 | --- | --- | -4.99 | 0.426 | 113.2 | 190.5 | -7.1 | 0.278 |
| 4-2240 | 4-2560 | 0.505 | 309.7 | -37.9 | -8.43 | 1.200 | 67.3 | 0.577 | 1.900 | 64.6 | 165.5 | --- | --- | -5.05 | 0.413 | 108.1 | 188.3 | -7.8 | 0.253 |
| 4-2240 | 4-2580 | 0.496 | 309.7 | -37.3 | -8.07 | 1.196 | 67.6 | 0.567 | 1.864 | 64.6 | 169.4 | --- | --- | -5.13 | 0.404 | 103.2 | 185.7 | -8.7 | 0.233 |
| 4-2240 | 4-2600 | 0.487 | 310.0 | -36.7 | -7.69 | 1.193 | 68.0 | 0.560 | 1.841 | 64.2 | 173.0 | --- | --- | -5.24 | 0.400 | 98.7 | 182.9 | -9.5 | 0.218 |
| 4-2240 | 4-2620 | 0.477 | 310.4 | -36.0 | -7.29 | 1.192 | 68.4 | 0.553 | 1.826 | 63.5 | 176.4 | --- | --- | -5.38 | 0.399 | 94.5 | 179.9 | -10.4 | 0.207 |
| 4-2240 | 4-2640 | 0.467 | 311.1 | -35.2 | -6.86 | 1.191 | 68.8 | 0.547 | 1.819 | 62.5 | 179.4 | --- | --- | -5.56 | 0.401 | 90.7 | 177.1 | -11.2 | 0.200 |
| 4-2240 | 4-2660 | 0.457 | 311.9 | -34.3 | -6.39 | 1.190 | 69.3 | 0.542 | 1.817 | 61.2 | 182.3 | --- | 2.802 | -5.79 | 0.405 | 87.2 | 174.5 | -12.0 | 0.196 |
| 4-2240 | 4-2680 | 0.445 | 312.8 | -33.1 | -5.87 | 1.191 | 69.9 | 0.538 | 1.818 | 59.8 | 185.1 | --- | 2.797 | -6.08 | 0.410 | 84.2 | 172.2 | -12.8 | 0.195 |
| 4-2240 | 4-2700 | 0.434 | 313.8 | -31.8 | -5.29 | 1.191 | 70.5 | 0.534 | 1.823 | 58.1 | 187.6 | --- | 2.796 | -6.43 | 0.417 | 81.4 | 170.4 | -13.7 | 0.196 |
| 4-2240 | 4-2720 | 0.421 | 314.9 | -30.1 | -4.62 | 1.192 | 71.2 | 0.530 | 1.830 | 56.3 | 190.1 | --- | 2.801 | -6.87 | 0.424 | 79.0 | 169.1 | -14.5 | 0.199 |
| 4-2240 | 4-2740 | 0.409 | 316.0 | -28.0 | -3.85 | 1.193 | 71.9 | 0.527 | 1.839 | 54.3 | 192.4 | --- | 2.808 | -7.43 | 0.433 | 76.9 | 168.4 | -15.6 | 0.203 |
| 4-2240 | 4-2760 | 0.395 | 317.0 | -25.3 | -2.92 | 1.194 | 72.6 | 0.524 | 1.850 | 52.2 | 194.7 | --- | 2.819 | -8.14 | 0.441 | 75.0 | 168.2 | -16.8 | 0.209 |
| 4-2240 | 4-2780 | 0.382 | 317.9 | -21.8 | -1.77 | 1.196 | 73.4 | 0.521 | 1.862 | 50.0 | 196.8 | --- | 2.832 | -9.08 | 0.450 | 73.3 | 168.6 | -18.2 | 0.217 |
| 4-2240 | 4-2800 | 0.369 | 318.5 | -17.0 | -0.30 | 1.197 | 74.2 | 0.518 | 1.875 | 47.6 | 198.9 | --- | 2.846 | -10.35 | 0.458 | 71.8 | 169.5 | -20.2 | 0.227 |
| 4-2240 | 4-2820 | 0.359 | 318.5 | -10.3 | 1.68 | 1.199 | 75.0 | 0.516 | 1.889 | 45.2 | 200.9 | --- | 2.863 | -12.12 | 0.467 | 70.5 | 171.0 | -22.7 | 0.240 |
| 4-2240 | 4-2840 | 0.357 | 317.4 | -0.8 | 4.52 | 1.201 | 75.8 | 0.514 | 1.903 | 42.6 | 202.8 | --- | 2.881 | -14.75 | 0.475 | 69.3 | 173.1 | -26.1 | 0.258 |
| 4-2240 | 4-2860 | 0.375 | 313.7 | 13.0 | 8.98 | 1.203 | 76.7 | 0.512 | 1.918 | 40.0 | 204.6 | --- | 2.901 | -19.00 | 0.484 | 68.2 | 176.3 | -30.8 | 0.286 |
| 4-2240 | 4-2880 | 0.454 | 304.0 | 31.0 | 16.96 | 1.204 | 77.5 | 0.511 | 1.934 | 37.5 | 206.4 | --- | 2.922 | -26.78 | 0.492 | 67.3 | 181.5 | -36.9 | 0.340 |
| 4-2240 | 4-2900 | 0.711 | 278.4 | 46.6 | 34.34 | 1.206 | 78.2 | 0.511 | 1.950 | 35.3 | 208.1 | --- | 2.946 | -43.96 | 0.500 | 66.3 | 191.8 | -42.6 | 0.469 |
| 4-2240 | 4-2940 | 1.079 | 150.4 | -73.5 | -57.47 | 1.210 | 81.9 | 0.503 | 1.983 | 24.5 | 211.2 | --- | 2.979 | 48.27 | 0.515 | 65.5 | 200.7 | 43.0 | 0.512 |
| 4-2240 | 4-2960 | 0.744 | 80.3 | -78.7 | -37.23 | 1.211 | 82.6 | 0.504 | 1.999 | 22.1 | 212.7 | --- | 3.007 | 28.24 | 0.521 | 64.7 | 193.9 | 36.7 | 0.373 |
| 4-2250 | 4-2430 | 0.687 | 319.8 | -35.7 | -11.26 | 1.310 | 61.4 | 0.811 | 3.981 | 64.9 | 131.4 | --- | --- | -7.02 | 0.655 | 142.6 | 194.2 | -4.9 | 0.572 |
| 4-2250 | 4-2450 | 0.658 | 317.2 | -35.8 | -10.77 | 1.274 | 61.5 | 0.743 | 2.889 | 68.5 | 138.8 | --- | --- | -6.84 | 0.579 | 138.0 | 193.8 | -5.4 | 0.494 |
| 4-2250 | 4-2470 | 0.637 | 315.2 | -35.7 | -10.30 | 1.247 | 61.6 | 0.698 | 2.423 | 71.4 | 145.5 | --- | --- | -6.70 | 0.521 | 133.0 | 193.0 | -5.9 | 0.430 |
| 4-2250 | 4-2490 | 0.620 | 313.7 | -35.5 | -9.84 | 1.228 | 61.7 | 0.667 | 2.175 | 73.5 | 151.4 | --- | --- | -6.59 | 0.476 | 127.6 | 191.8 | -6.6 | 0.378 |
| 4-2250 | 4-2510 | 0.606 | 312.8 | -35.1 | -9.39 | 1.215 | 62.0 | 0.644 | 2.027 | 74.9 | 156.6 | --- | --- | -6.51 | 0.443 | 122.0 | 190.3 | -7.3 | 0.336 |
| 4-2250 | 4-2530 | 0.594 | 312.2 | -34.7 | -8.95 | 1.205 | 62.2 | 0.627 | 1.934 | 75.7 | 161.3 | --- | --- | -6.46 | 0.418 | 116.4 | 188.4 | -8.0 | 0.302 |
| 4-2250 | 4-2550 | 0.582 | 312.0 | -34.1 | -8.51 | 1.198 | 62.6 | 0.614 | 1.873 | 76.0 | 165.5 | --- | --- | -6.44 | 0.401 | 110.8 | 186.1 | -8.8 | 0.275 |
| 4-2250 | 4-2570 | 0.571 | 312.0 | -33.6 | -8.06 | 1.193 | 63.0 | 0.604 | 1.834 | 75.9 | 169.3 | --- | --- | -6.45 | 0.391 | 105.4 | 183.6 | -9.6 | 0.253 |
| 4-2250 | 4-2590 | 0.560 | 312.3 | -32.9 | -7.61 | 1.190 | 63.4 | 0.595 | 1.809 | 75.4 | 172.8 | --- | --- | -6.49 | 0.386 | 100.4 | 180.9 | -10.4 | 0.237 |
| 4-2250 | 4-2610 | 0.548 | 312.7 | -32.2 | -7.14 | 1.188 | 63.9 | 0.587 | 1.794 | 74.5 | 175.9 | --- | --- | -6.57 | 0.384 | 95.7 | 178.1 | -11.2 | 0.225 |
| 4-2250 | 4-2630 | 0.537 | 313.3 | -31.4 | -6.66 | 1.187 | 64.5 | 0.580 | 1.786 | 73.4 | 178.9 | --- | --- | -6.68 | 0.386 | 91.5 | 175.4 | -12.0 | 0.216 |
| 4-2250 | 4-2650 | 0.525 | 314.0 | -30.5 | -6.15 | 1.187 | 65.1 | 0.574 | 1.784 | 72.1 | 181.7 | --- | 2.809 | -6.83 | 0.390 | 87.7 | 172.9 | -12.7 | 0.211 |
| 4-2250 | 4-2670 | 0.512 | 314.8 | -29.5 | -5.61 | 1.187 | 65.7 | 0.569 | 1.786 | 70.6 | 184.3 | --- | 2.802 | -7.03 | 0.396 | 84.4 | 170.8 | -13.3 | 0.209 |
| 4-2250 | 4-2690 | 0.500 | 315.7 | -28.3 | -5.02 | 1.188 | 66.4 | 0.564 | 1.792 | 68.9 | 186.8 | --- | 2.801 | -7.29 | 0.403 | 81.4 | 169.1 | -14.0 | 0.209 |
| 4-2250 | 4-2710 | 0.487 | 316.7 | -26.9 | -4.38 | 1.189 | 67.1 | 0.559 | 1.800 | 67.0 | 189.2 | --- | 2.805 | -7.61 | 0.411 | 78.8 | 167.9 | -14.6 | 0.211 |
| 4-2250 | 4-2730 | 0.473 | 317.7 | -25.3 | -3.67 | 1.190 | 67.8 | 0.554 | 1.810 | 65.0 | 191.4 | --- | 2.812 | -8.01 | 0.420 | 76.5 | 167.2 | -15.3 | 0.215 |
| 4-2250 | 4-2750 | 0.459 | 318.6 | -23.3 | -2.87 | 1.191 | 68.6 | 0.550 | 1.821 | 62.9 | 193.6 | --- | 2.823 | -8.51 | 0.429 | 74.5 | 167.1 | -16.2 | 0.220 |
| 4-2250 | 4-2770 | 0.445 | 319.6 | -20.8 | -1.95 | 1.193 | 69.4 | 0.546 | 1.834 | 60.6 | 195.7 | --- | 2.835 | -9.14 | 0.438 | 72.7 | 167.4 | -17.1 | 0.226 |
| 4-2250 | 4-2790 | 0.432 | 320.4 | -17.8 | -0.86 | 1.195 | 70.3 | 0.542 | 1.848 | 58.2 | 197.7 | --- | 2.850 | -9.94 | 0.447 | 71.2 | 168.2 | -18.3 | 0.233 |
| 4-2250 | 4-2810 | 0.418 | 321.0 | -13.9 | 0.47 | 1.197 | 71.2 | 0.538 | 1.863 | 55.7 | 199.7 | --- | 2.866 | -10.98 | 0.457 | 69.8 | 169.5 | -19.7 | 0.242 |
| 4-2250 | 4-2830 | 0.407 | 321.2 | -8.9 | 2.12 | 1.198 | 72.0 | 0.535 | 1.879 | 53.2 | 201.6 | --- | 2.883 | -12.36 | 0.466 | 68.6 | 171.3 | -21.5 | 0.253 |
| 4-2250 | 4-2850 | 0.400 | 320.8 | -2.3 | 4.29 | 1.200 | 73.0 | 0.532 | 1.895 | 50.5 | 203.4 | --- | 2.902 | -14.25 | 0.475 | 67.6 | 173.5 | -23.9 | 0.267 |
| 4-2250 | 4-2870 | 0.402 | 319.1 | 6.6 | 7.28 | 1.202 | 73.9 | 0.529 | 1.912 | 47.8 | 205.2 | --- | 2.922 | -16.96 | 0.484 | 66.7 | 176.4 | -27.0 | 0.286 |
| 4-2250 | 4-2890 | 0.426 | 315.1 | 18.2 | 11.69 | 1.204 | 74.8 | 0.526 | 1.929 | 45.0 | 206.9 | --- | 2.944 | -21.10 | 0.492 | 65.8 | 180.2 | -31.0 | 0.314 |
| 4-2250 | 4-2910 | 0.499 | 306.2 | 31.9 | 18.87 | 1.206 | 75.7 | 0.525 | 1.946 | 42.3 | 208.5 | --- | 2.967 | -28.01 | 0.501 | 65.1 | 185.7 | -36.0 | 0.362 |
| 4-2250 | 4-2930 | 0.688 | 286.9 | 43.7 | 32.17 | 1.208 | 76.5 | 0.524 | 1.963 | 39.9 | 210.1 | --- | 2.992 | -41.03 | 0.508 | 64.3 | 194.7 | -40.9 | 0.459 |
| 4-2260 | 4-2420 | 0.819 | 321.5 | -33.0 | -12.68 | 1.334 | 54.7 | 0.876 | 5.260 | 76.7 | 131.9 | --- | --- | -9.44 | 0.699 | 147.6 | 192.1 | -5.5 | 0.645 |
| 4-2260 | 4-2440 | 0.777 | 319.2 | -33.0 | -11.95 | 1.287 | 55.1 | 0.800 | 3.193 | 80.5 | 139.6 | --- | --- | -9.05 | 0.606 | 143.0 | 191.6 | -6.0 | 0.552 |
| 4-2260 | 4-2460 | 0.746 | 317.5 | -32.8 | -11.28 | 1.254 | 55.5 | 0.750 | 2.520 | 83.5 | 146.3 | --- | --- | -8.72 | 0.535 | 137.9 | 190.7 | -6.5 | 0.478 |
| 4-2260 | 4-2480 | 0.722 | 316.3 | -32.5 | -10.65 | 1.231 | 55.9 | 0.716 | 2.200 | 85.5 | 152.1 | --- | --- | -8.45 | 0.480 | 132.4 | 189.5 | -7.2 | 0.419 |
| 4-2260 | 4-2500 | 0.703 | 315.5 | -32.1 | -10.05 | 1.215 | 56.4 | 0.692 | 2.020 | 86.8 | 157.2 | --- | --- | -8.23 | 0.439 | 126.5 | 187.9 | -7.8 | 0.371 |
| 4-2260 | 4-2520 | 0.686 | 315.1 | -31.6 | -9.47 | 1.203 | 56.8 | 0.673 | 1.911 | 87.5 | 161.7 | --- | --- | -8.05 | 0.409 | 120.4 | 186.0 | -8.6 | 0.332 |
| 4-2260 | 4-2540 | 0.670 | 315.0 | -31.1 | -8.91 | 1.195 | 57.3 | 0.659 | 1.842 | 87.6 | 165.7 | --- | --- | -7.92 | 0.388 | 114.2 | 183.7 | -9.3 | 0.302 |
| 4-2260 | 4-2560 | 0.656 | 315.1 | -30.5 | -8.36 | 1.189 | 57.9 | 0.647 | 1.798 | 87.4 | 169.3 | --- | --- | -7.82 | 0.375 | 108.2 | 181.3 | -10.1 | 0.278 |
| 4-2260 | 4-2580 | 0.642 | 315.4 | -29.8 | -7.82 | 1.186 | 58.5 | 0.637 | 1.771 | 86.7 | 172.6 | --- | --- | -7.77 | 0.368 | 102.5 | 178.6 | -10.8 | 0.259 |
| 4-2260 | 4-2600 | 0.629 | 315.9 | -29.1 | -7.28 | 1.183 | 59.1 | 0.628 | 1.755 | 85.7 | 175.7 | --- | --- | -7.75 | 0.365 | 97.2 | 176.0 | -11.5 | 0.245 |
| 4-2260 | 4-2620 | 0.615 | 316.4 | -28.4 | -6.73 | 1.182 | 59.8 | 0.620 | 1.747 | 84.5 | 178.5 | --- | --- | -7.77 | 0.367 | 92.5 | 173.4 | -12.1 | 0.236 |
| 4-2260 | 4-2640 | 0.601 | 317.1 | -27.5 | -6.17 | 1.182 | 60.5 | 0.613 | 1.746 | 83.1 | 181.1 | --- | 2.815 | -7.82 | 0.371 | 88.2 | 171.1 | -12.7 | 0.230 |
| 4-2260 | 4-2660 | 0.588 | 317.9 | -26.6 | -5.59 | 1.183 | 61.2 | 0.606 | 1.748 | 81.5 | 183.6 | --- | 2.808 | -7.93 | 0.377 | 84.5 | 169.1 | -13.2 | 0.227 |
| 4-2260 | 4-2680 | 0.574 | 318.7 | -25.5 | -4.99 | 1.183 | 62.0 | 0.600 | 1.755 | 79.7 | 186.0 | --- | 2.807 | -8.07 | 0.385 | 81.2 | 167.6 | -13.7 | 0.226 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2260 | 4-2700 | 0.559 | 319.6 | -24.3 | -4.35 | 1.185 | 62.8 | 0.593 | 1.764 | 77.8 | 188.2 | --- | 2.810 | -8.27 | 0.394 | 78.4 | 166.5 | -14.2 | 0.227 |
| 4-2260 | 4-2720 | 0.545 | 320.5 | -23.0 | -3.67 | 1.186 | 63.6 | 0.587 | 1.775 | 75.7 | 190.4 | --- | 2.817 | -8.53 | 0.404 | 75.9 | 165.9 | -14.7 | 0.229 |
| 4-2260 | 4-2740 | 0.530 | 321.4 | -21.4 | -2.94 | 1.188 | 64.4 | 0.582 | 1.788 | 73.5 | 192.5 | --- | 2.827 | -8.87 | 0.414 | 73.7 | 165.8 | -15.2 | 0.233 |
| 4-2260 | 4-2760 | 0.515 | 322.3 | -19.6 | -2.13 | 1.190 | 65.3 | 0.576 | 1.802 | 71.2 | 194.5 | --- | 2.840 | -9.29 | 0.424 | 71.9 | 166.2 | -15.9 | 0.238 |
| 4-2260 | 4-2780 | 0.500 | 323.2 | -17.4 | -1.22 | 1.192 | 66.2 | 0.571 | 1.817 | 68.8 | 196.5 | --- | 2.854 | -9.81 | 0.434 | 70.3 | 167.0 | -16.6 | 0.244 |
| 4-2260 | 4-2800 | 0.485 | 324.0 | -14.8 | -0.19 | 1.194 | 67.1 | 0.566 | 1.833 | 66.3 | 198.4 | --- | 2.870 | -10.48 | 0.445 | 68.9 | 168.2 | -17.5 | 0.250 |
| 4-2260 | 4-2820 | 0.471 | 324.6 | -11.6 | 1.01 | 1.196 | 68.1 | 0.561 | 1.850 | 63.7 | 200.3 | --- | 2.888 | -11.32 | 0.455 | 67.7 | 169.8 | -18.6 | 0.258 |
| 4-2260 | 4-2840 | 0.458 | 325.0 | -7.7 | 2.44 | 1.198 | 69.0 | 0.556 | 1.867 | 61.0 | 202.1 | --- | 2.906 | -12.40 | 0.465 | 66.6 | 171.8 | -20.0 | 0.268 |
| 4-2260 | 4-2860 | 0.448 | 324.9 | -2.7 | 4.21 | 1.200 | 70.0 | 0.552 | 1.885 | 58.2 | 203.8 | --- | 2.926 | -13.81 | 0.474 | 65.7 | 174.1 | -21.8 | 0.279 |
| 4-2260 | 4-2880 | 0.442 | 324.2 | 3.5 | 6.45 | 1.202 | 71.0 | 0.548 | 1.903 | 55.4 | 205.5 | --- | 2.947 | -15.72 | 0.483 | 64.9 | 177.0 | -23.9 | 0.292 |
| 4-2260 | 4-2900 | 0.447 | 322.2 | 11.4 | 9.45 | 1.204 | 72.0 | 0.545 | 1.922 | 52.5 | 207.2 | --- | 2.968 | -18.38 | 0.492 | 64.2 | 180.3 | -26.7 | 0.311 |
| 4-2260 | 4-2920 | 0.471 | 318.2 | 21.2 | 13.69 | 1.206 | 73.0 | 0.541 | 1.940 | 49.6 | 208.8 | --- | 2.991 | -22.28 | 0.501 | 63.6 | 184.5 | -30.3 | 0.337 |
| 4-2260 | 4-2940 | 0.536 | 310.1 | 32.2 | 20.14 | 1.208 | 74.0 | 0.539 | 1.959 | 46.8 | 210.3 | --- | 3.015 | -28.40 | 0.509 | 63.0 | 190.1 | -34.6 | 0.380 |
| 4-2260 | 4-2960 | 0.682 | 294.5 | 41.7 | 30.94 | 1.210 | 74.9 | 0.538 | 1.978 | 44.2 | 211.8 | --- | 3.041 | -38.87 | 0.516 | 62.5 | 198.2 | -39.0 | 0.456 |
| 4-2260 | 4-2980 | 0.989 | 270.0 | 43.1 | 50.65 | 1.212 | 75.5 | 0.538 | 1.997 | 42.3 | 213.2 | --- | 3.071 | -58.25 | 0.523 | 61.8 | 210.6 | -40.6 | 0.603 |
| 4-2270 | 4-2430 | 0.920 | 321.8 | -30.6 | -13.98 | 1.308 | 47.8 | 0.865 | 3.826 | 93.2 | 141.0 | --- | --- | -11.98 | 0.647 | 148.9 | 189.2 | -6.3 | 0.629 |
| 4-2270 | 4-2450 | 0.875 | 320.3 | -30.3 | -12.98 | 1.266 | 48.6 | 0.810 | 2.696 | 96.1 | 147.6 | --- | --- | -11.33 | 0.558 | 143.9 | 188.3 | -6.9 | 0.540 |
| 4-2270 | 4-2470 | 0.841 | 319.3 | -30.0 | -12.07 | 1.236 | 49.4 | 0.773 | 2.249 | 98.0 | 153.3 | --- | --- | -10.78 | 0.489 | 138.3 | 187.0 | -7.4 | 0.470 |
| 4-2270 | 4-2490 | 0.813 | 318.7 | -29.5 | -11.23 | 1.216 | 50.1 | 0.747 | 2.021 | 99.1 | 158.2 | --- | --- | -10.33 | 0.438 | 132.2 | 185.4 | -8.1 | 0.414 |
| 4-2270 | 4-2510 | 0.790 | 318.5 | -29.0 | -10.45 | 1.202 | 50.8 | 0.727 | 1.890 | 99.6 | 162.4 | --- | --- | -9.95 | 0.400 | 125.6 | 183.5 | -8.7 | 0.370 |
| 4-2270 | 4-2530 | 0.770 | 318.5 | -28.4 | -9.72 | 1.192 | 51.5 | 0.711 | 1.810 | 99.5 | 166.2 | --- | --- | -9.64 | 0.373 | 118.7 | 181.3 | -9.4 | 0.335 |
| 4-2270 | 4-2550 | 0.752 | 318.7 | -27.8 | -9.02 | 1.185 | 52.3 | 0.698 | 1.760 | 99.0 | 169.6 | --- | --- | -9.38 | 0.356 | 111.9 | 178.9 | -10.1 | 0.308 |
| 4-2270 | 4-2570 | 0.735 | 319.0 | -27.2 | -8.35 | 1.181 | 53.0 | 0.686 | 1.730 | 98.1 | 172.6 | --- | --- | -9.18 | 0.346 | 105.4 | 176.4 | -10.7 | 0.287 |
| 4-2270 | 4-2590 | 0.718 | 319.5 | -26.5 | -7.70 | 1.179 | 53.8 | 0.676 | 1.712 | 97.0 | 175.5 | --- | --- | -9.03 | 0.343 | 99.3 | 173.9 | -11.3 | 0.271 |
| 4-2270 | 4-2610 | 0.702 | 320.1 | -25.7 | -7.06 | 1.177 | 54.6 | 0.667 | 1.704 | 95.7 | 178.1 | --- | --- | -8.92 | 0.344 | 93.8 | 171.5 | -11.8 | 0.260 |
| 4-2270 | 4-2630 | 0.686 | 320.8 | -24.9 | -6.43 | 1.177 | 55.5 | 0.658 | 1.703 | 94.1 | 180.6 | --- | 2.822 | -8.86 | 0.348 | 88.9 | 169.3 | -12.3 | 0.252 |
| 4-2270 | 4-2650 | 0.670 | 321.6 | -24.0 | -5.79 | 1.178 | 56.3 | 0.649 | 1.706 | 92.4 | 182.9 | --- | 2.814 | -8.85 | 0.355 | 84.7 | 167.5 | -12.7 | 0.248 |
| 4-2270 | 4-2670 | 0.654 | 322.4 | -23.1 | -5.15 | 1.179 | 57.2 | 0.641 | 1.713 | 90.5 | 185.1 | --- | 2.812 | -8.88 | 0.364 | 81.0 | 166.1 | -13.1 | 0.245 |
| 4-2270 | 4-2690 | 0.639 | 323.2 | -22.0 | -4.49 | 1.180 | 58.1 | 0.634 | 1.723 | 88.5 | 187.3 | --- | 2.815 | -8.95 | 0.374 | 77.8 | 165.2 | -13.4 | 0.245 |
| 4-2270 | 4-2710 | 0.622 | 324.1 | -20.8 | -3.81 | 1.182 | 59.0 | 0.626 | 1.735 | 86.3 | 189.4 | --- | 2.822 | -9.08 | 0.385 | 75.1 | 164.7 | -13.8 | 0.247 |
| 4-2270 | 4-2730 | 0.606 | 325.0 | -19.5 | -3.10 | 1.184 | 59.9 | 0.619 | 1.749 | 84.1 | 191.4 | --- | 2.832 | -9.27 | 0.396 | 72.7 | 164.6 | -14.1 | 0.249 |
| 4-2270 | 4-2750 | 0.590 | 325.9 | -18.0 | -2.34 | 1.186 | 60.9 | 0.612 | 1.765 | 81.7 | 193.3 | --- | 2.845 | -9.52 | 0.408 | 70.8 | 165.0 | -14.6 | 0.253 |
| 4-2270 | 4-2770 | 0.574 | 326.7 | -16.3 | -1.53 | 1.188 | 61.9 | 0.605 | 1.781 | 79.2 | 195.2 | --- | 2.859 | -9.85 | 0.419 | 69.1 | 165.8 | -15.1 | 0.258 |
| 4-2270 | 4-2790 | 0.557 | 327.6 | -14.4 | -0.65 | 1.190 | 62.9 | 0.599 | 1.798 | 76.7 | 197.1 | --- | 2.876 | -10.27 | 0.430 | 67.6 | 166.9 | -15.7 | 0.263 |
| 4-2270 | 4-2810 | 0.541 | 328.3 | -12.1 | 0.33 | 1.193 | 63.9 | 0.593 | 1.817 | 74.1 | 198.9 | --- | 2.893 | -10.79 | 0.441 | 66.4 | 168.5 | -16.4 | 0.269 |
| 4-2270 | 4-2830 | 0.526 | 329.0 | -9.5 | 1.44 | 1.195 | 64.9 | 0.587 | 1.835 | 71.4 | 200.6 | --- | 2.912 | -11.46 | 0.452 | 65.4 | 170.3 | -17.2 | 0.276 |
| 4-2270 | 4-2850 | 0.511 | 329.4 | -6.3 | 2.71 | 1.197 | 66.0 | 0.581 | 1.854 | 68.6 | 202.4 | --- | 2.931 | -12.30 | 0.463 | 64.5 | 172.5 | -18.3 | 0.283 |
| 4-2270 | 4-2870 | 0.498 | 329.6 | -2.4 | 4.20 | 1.200 | 67.0 | 0.575 | 1.874 | 65.7 | 204.1 | --- | 2.952 | -13.38 | 0.473 | 63.7 | 175.0 | -19.6 | 0.292 |
| 4-2270 | 4-2890 | 0.488 | 329.4 | 2.3 | 6.01 | 1.202 | 68.1 | 0.570 | 1.893 | 62.8 | 205.7 | --- | 2.973 | -14.78 | 0.483 | 63.1 | 177.9 | -21.2 | 0.303 |
| 4-2270 | 4-2910 | 0.484 | 328.5 | 8.0 | 8.26 | 1.204 | 69.2 | 0.565 | 1.913 | 59.8 | 207.3 | --- | 2.995 | -16.63 | 0.492 | 62.5 | 181.1 | -23.3 | 0.316 |
| 4-2270 | 4-2930 | 0.489 | 326.4 | 15.1 | 11.19 | 1.207 | 70.3 | 0.561 | 1.933 | 56.8 | 208.8 | --- | 3.018 | -19.16 | 0.500 | 62.0 | 184.8 | -25.8 | 0.333 |
| 4-2270 | 4-2950 | 0.511 | 322.5 | 23.4 | 15.19 | 1.209 | 71.3 | 0.557 | 1.954 | 53.7 | 210.3 | --- | 3.042 | -22.77 | 0.509 | 61.6 | 189.2 | -29.0 | 0.357 |
| 4-2270 | 4-2970 | 0.566 | 315.1 | 32.5 | 20.98 | 1.211 | 72.4 | 0.554 | 1.974 | 50.8 | 211.8 | --- | 3.067 | -28.17 | 0.516 | 61.2 | 194.7 | -32.9 | 0.394 |
| 4-2270 | 4-2990 | 0.683 | 302.1 | 40.4 | 30.03 | 1.213 | 73.3 | 0.551 | 1.994 | 48.0 | 213.1 | --- | 3.093 | -36.84 | 0.524 | 60.8 | 202.2 | -37.0 | 0.455 |
| 4-2280 | 4-2440 | 1.028 | 323.3 | -28.2 | -15.91 | 1.285 | 40.7 | 0.875 | 3.077 | 109.2 | 149.6 | --- | --- | -15.08 | 0.597 | 151.0 | 185.8 | -6.9 | 0.622 |
| 4-2280 | 4-2460 | 0.979 | 322.5 | -27.7 | -14.49 | 1.246 | 41.9 | 0.836 | 2.361 | 110.9 | 154.9 | --- | --- | -14.03 | 0.509 | 145.6 | 184.6 | -7.5 | 0.537 |
| 4-2280 | 4-2480 | 0.940 | 322.1 | -27.2 | -13.24 | 1.220 | 43.0 | 0.808 | 2.046 | 111.7 | 159.5 | --- | --- | -13.15 | 0.443 | 139.4 | 183.0 | -8.0 | 0.470 |
| 4-2280 | 4-2500 | 0.909 | 322.0 | -26.7 | -12.12 | 1.202 | 44.1 | 0.787 | 1.878 | 111.9 | 163.4 | --- | --- | -12.43 | 0.394 | 132.5 | 181.1 | -8.6 | 0.418 |
| 4-2280 | 4-2520 | 0.882 | 322.2 | -26.1 | -11.10 | 1.190 | 45.1 | 0.769 | 1.781 | 111.5 | 166.8 | --- | --- | -11.82 | 0.359 | 125.0 | 179.0 | -9.2 | 0.377 |
| 4-2280 | 4-2540 | 0.858 | 322.5 | -25.4 | -10.17 | 1.182 | 46.1 | 0.755 | 1.722 | 110.7 | 169.9 | --- | --- | -11.32 | 0.336 | 117.2 | 176.6 | -9.8 | 0.345 |
| 4-2280 | 4-2560 | 0.837 | 322.9 | -24.8 | -9.30 | 1.176 | 47.1 | 0.742 | 1.687 | 109.7 | 172.7 | --- | --- | -10.90 | 0.322 | 109.6 | 174.3 | -10.3 | 0.321 |
| 4-2280 | 4-2580 | 0.816 | 323.5 | -24.0 | -8.48 | 1.173 | 48.0 | 0.730 | 1.667 | 108.3 | 175.3 | --- | --- | -10.55 | 0.316 | 102.4 | 171.9 | -10.8 | 0.302 |
| 4-2280 | 4-2600 | 0.797 | 324.1 | -23.3 | -7.70 | 1.172 | 49.0 | 0.719 | 1.658 | 106.8 | 177.7 | --- | --- | -10.27 | 0.316 | 95.8 | 169.7 | -11.2 | 0.289 |
| 4-2280 | 4-2620 | 0.778 | 324.8 | -22.5 | -6.95 | 1.172 | 50.0 | 0.708 | 1.656 | 105.1 | 180.0 | --- | --- | -10.05 | 0.321 | 90.0 | 167.7 | -11.6 | 0.279 |
| 4-2280 | 4-2640 | 0.760 | 325.6 | -21.7 | -6.22 | 1.172 | 51.0 | 0.698 | 1.660 | 103.2 | 182.2 | --- | 2.819 | -9.89 | 0.329 | 85.0 | 166.1 | -11.9 | 0.273 |
| 4-2280 | 4-2660 | 0.742 | 326.4 | -20.8 | -5.51 | 1.174 | 52.0 | 0.689 | 1.668 | 101.2 | 184.3 | --- | 2.817 | -9.77 | 0.339 | 80.7 | 164.8 | -12.2 | 0.269 |
| 4-2280 | 4-2680 | 0.724 | 327.3 | -19.8 | -4.79 | 1.175 | 53.1 | 0.680 | 1.678 | 99.1 | 186.3 | --- | 2.819 | -9.71 | 0.350 | 77.1 | 163.9 | -12.4 | 0.268 |
| 4-2280 | 4-2700 | 0.706 | 328.1 | -18.7 | -4.08 | 1.177 | 54.1 | 0.671 | 1.692 | 96.9 | 188.2 | --- | 2.826 | -9.70 | 0.362 | 74.1 | 163.5 | -12.7 | 0.268 |
| 4-2280 | 4-2720 | 0.689 | 329.0 | -17.6 | -3.35 | 1.179 | 55.1 | 0.662 | 1.707 | 94.6 | 190.1 | --- | 2.837 | -9.75 | 0.375 | 71.5 | 163.5 | -12.9 | 0.269 |
| 4-2280 | 4-2740 | 0.671 | 329.9 | -16.3 | -2.61 | 1.182 | 56.2 | 0.654 | 1.723 | 92.1 | 192.0 | --- | 2.850 | -9.85 | 0.388 | 69.4 | 163.9 | -13.2 | 0.272 |
| 4-2280 | 4-2760 | 0.653 | 330.8 | -14.9 | -1.83 | 1.184 | 57.3 | 0.645 | 1.741 | 89.6 | 193.8 | --- | 2.865 | -10.01 | 0.401 | 67.6 | 164.7 | -13.5 | 0.275 |
| 4-2280 | 4-2780 | 0.635 | 331.6 | -13.4 | -1.02 | 1.187 | 58.4 | 0.637 | 1.760 | 87.1 | 195.6 | --- | 2.881 | -10.24 | 0.413 | 66.1 | 165.8 | -13.9 | 0.279 |
| 4-2280 | 4-2800 | 0.617 | 332.5 | -11.6 | -0.15 | 1.189 | 59.4 | 0.630 | 1.779 | 84.4 | 197.4 | --- | 2.899 | -10.55 | 0.426 | 64.8 | 167.3 | -14.4 | 0.284 |
| 4-2280 | 4-2820 | 0.600 | 333.2 | -9.6 | 0.78 | 1.192 | 60.6 | 0.622 | 1.799 | 81.7 | 199.1 | --- | 2.918 | -10.94 | 0.438 | 63.7 | 169.1 | -15.0 | 0.289 |
| 4-2280 | 4-2840 | 0.583 | 333.9 | -7.3 | 1.81 | 1.195 | 61.7 | 0.615 | 1.819 | 78.8 | 200.8 | --- | 2.938 | -11.45 | 0.449 | 62.9 | 171.2 | -15.6 | 0.295 |
| 4-2280 | 4-2860 | 0.567 | 334.4 | -4.6 | 2.95 | 1.197 | 62.8 | 0.608 | 1.840 | 76.0 | 202.4 | --- | 2.958 | -12.10 | 0.460 | 62.1 | 173.5 | -16.5 | 0.301 |
| 4-2280 | 4-2880 | 0.551 | 334.8 | -1.5 | 4.25 | 1.200 | 64.0 | 0.601 | 1.861 | 73.0 | 204.1 | --- | 2.979 | -12.91 | 0.471 | 61.5 | 176.1 | -17.5 | 0.308 |
| 4-2280 | 4-2900 | 0.538 | 334.9 | 2.2 | 5.77 | 1.202 | 65.1 | 0.594 | 1.882 | 70.0 | 205.7 | --- | 3.001 | -13.95 | 0.481 | 61.0 | 179.0 | -18.7 | 0.316 |
| 4-2280 | 4-2920 | 0.528 | 334.5 | 6.6 | 7.57 | 1.205 | 66.3 | 0.588 | 1.904 | 66.9 | 207.2 | --- | 3.023 | -15.29 | 0.491 | 60.6 | 182.2 | -20.2 | 0.326 |
| 4-2280 | 4-2940 | 0.523 | 333.5 | 11.8 | 9.77 | 1.207 | 67.4 | 0.582 | 1.925 | 63.8 | 208.7 | --- | 3.046 | -17.05 | 0.500 | 60.2 | 185.7 | -22.1 | 0.338 |
| 4-2280 | 4-2960 | 0.527 | 331.5 | 18.1 | 12.58 | 1.210 | 68.6 | 0.577 | 1.947 | 60.7 | 210.2 | --- | 3.070 | -19.41 | 0.508 | 59.9 | 189.6 | -24.5 | 0.353 |
| 4-2280 | 4-2980 | 0.546 | 327.7 | 25.3 | 16.29 | 1.212 | 69.7 | 0.573 | 1.968 | 57.5 | 211.6 | --- | 3.095 | -22.68 | 0.516 | 59.7 | 194.1 | -27.4 | 0.374 |
| 4-2280 | 4-3000 | 0.592 | 321.1 | 33.0 | 21.48 | 1.214 | 70.8 | 0.568 | 1.989 | 54.4 | 212.9 | --- | 3.120 | -27.44 | 0.524 | 59.4 | 199.5 | -30.9 | 0.405 |
| 4-2290 | 4-2450 | 1.140 | 325.8 | -25.8 | -18.85 | 1.265 | 33.5 | 0.900 | 2.634 | 124.2 | 157.2 | --- | --- | -19.15 | 0.550 | 154.0 | 182.3 | -7.2 | 0.626 |
| 4-2290 | 4-2470 | 1.086 | 325.6 | -25.2 | -16.76 | 1.229 | 35.1 | 0.872 | 2.129 | 124.6 | 161.2 | --- | --- | -17.43 | 0.463 | 148.2 | 180.8 | -7.7 | 0.544 |
| 4-2290 | 4-2490 | 1.043 | 325.7 | -24.6 | -14.98 | 1.205 | 36.5 | 0.850 | 1.893 | 124.4 | 164.7 | --- | --- | -16.03 | 0.398 | 141.3 | 178.9 | -8.2 | 0.480 |
| 4-2290 | 4-2510 | 1.007 | 326.0 | -23.9 | -13.44 | 1.189 | 37.9 | 0.832 | 1.765 | 123.7 | 167.7 | --- | --- | -14.89 | 0.350 | 133.5 | 176.9 | -8.7 | 0.431 |
| 4-2290 | 4-2530 | 0.976 | 326.4 | -23.3 | -12.09 | 1.179 | 39.2 | 0.816 | 1.691 | 122.6 | 170.4 | --- | --- | -13.95 | 0.317 | 124.9 | 174.7 | -9.2 | 0.393 |
| 4-2290 | 4-2550 | 0.949 | 326.9 | -22.5 | -10.88 | 1.172 | 40.5 | 0.801 | 1.648 | 121.3 | 172.9 | --- | --- | -13.17 | 0.297 | 115.9 | 172.5 | -9.6 | 0.363 |
| 4-2290 | 4-2570 | 0.924 | 327.6 | -21.8 | -9.78 | 1.168 | 41.7 | 0.788 | 1.623 | 119.7 | 175.2 | --- | --- | -12.52 | 0.287 | 107.2 | 170.3 | -10.0 | 0.341 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2290 | 4-2590 | 0.900 | 328.3 | -21.1 | -8.78 | 1.166 | 42.9 | 0.776 | 1.612 | 118.0 | 177.3 | --- | --- | -11.97 | 0.285 | 99.1 | 168.2 | -10.4 | 0.324 |
| 4-2290 | 4-2610 | 0.878 | 329.1 | -20.3 | -7.84 | 1.166 | 44.1 | 0.764 | 1.609 | 116.1 | 179.4 | --- | --- | -11.52 | 0.289 | 91.9 | 166.4 | -10.7 | 0.312 |
| 4-2290 | 4-2630 | 0.857 | 329.9 | -19.4 | -6.95 | 1.167 | 45.3 | 0.752 | 1.612 | 114.1 | 181.4 | --- | 2.825 | -11.16 | 0.297 | 85.8 | 164.9 | -10.9 | 0.303 |
| 4-2290 | 4-2650 | 0.837 | 330.7 | -18.6 | -6.11 | 1.168 | 46.4 | 0.741 | 1.620 | 111.9 | 183.3 | --- | 2.821 | -10.86 | 0.309 | 80.6 | 163.7 | -11.1 | 0.298 |
| 4-2290 | 4-2670 | 0.816 | 331.6 | -17.6 | -5.30 | 1.170 | 47.6 | 0.730 | 1.631 | 109.7 | 185.2 | --- | 2.823 | -10.63 | 0.322 | 76.4 | 162.9 | -11.3 | 0.294 |
| 4-2290 | 4-2690 | 0.796 | 332.5 | -16.7 | -4.51 | 1.172 | 48.8 | 0.720 | 1.645 | 107.4 | 187.0 | --- | 2.830 | -10.46 | 0.336 | 72.9 | 162.6 | -11.5 | 0.293 |
| 4-2290 | 4-2710 | 0.777 | 333.4 | -15.6 | -3.73 | 1.174 | 50.0 | 0.710 | 1.661 | 105.0 | 188.8 | --- | 2.840 | -10.35 | 0.350 | 70.0 | 162.6 | -11.6 | 0.293 |
| 4-2290 | 4-2730 | 0.757 | 334.3 | -14.5 | -2.96 | 1.177 | 51.2 | 0.700 | 1.679 | 102.5 | 190.6 | --- | 2.854 | -10.29 | 0.365 | 67.6 | 163.0 | -11.8 | 0.294 |
| 4-2290 | 4-2750 | 0.737 | 335.2 | -13.3 | -2.18 | 1.180 | 52.3 | 0.690 | 1.698 | 99.9 | 192.3 | --- | 2.869 | -10.29 | 0.379 | 65.7 | 163.8 | -12.0 | 0.296 |
| 4-2290 | 4-2770 | 0.718 | 336.0 | -12.0 | -1.38 | 1.183 | 53.5 | 0.680 | 1.717 | 97.3 | 194.0 | --- | 2.886 | -10.36 | 0.393 | 64.1 | 164.9 | -12.3 | 0.299 |
| 4-2290 | 4-2790 | 0.699 | 336.9 | -10.5 | -0.57 | 1.186 | 54.7 | 0.671 | 1.738 | 94.6 | 195.7 | --- | 2.904 | -10.48 | 0.407 | 62.8 | 166.3 | -12.6 | 0.302 |
| 4-2290 | 4-2810 | 0.679 | 337.7 | -8.9 | 0.28 | 1.189 | 55.9 | 0.662 | 1.759 | 91.8 | 197.4 | --- | 2.924 | -10.68 | 0.421 | 61.7 | 168.1 | -13.0 | 0.306 |
| 4-2290 | 4-2830 | 0.660 | 338.5 | -7.1 | 1.18 | 1.191 | 57.1 | 0.653 | 1.781 | 89.0 | 199.1 | --- | 2.944 | -10.95 | 0.433 | 60.9 | 170.1 | -13.4 | 0.310 |
| 4-2290 | 4-2850 | 0.642 | 339.2 | -5.1 | 2.15 | 1.194 | 58.4 | 0.645 | 1.803 | 86.1 | 200.7 | --- | 2.965 | -11.32 | 0.446 | 60.2 | 172.3 | -13.9 | 0.315 |
| 4-2290 | 4-2870 | 0.624 | 339.8 | -2.8 | 3.20 | 1.197 | 59.6 | 0.636 | 1.825 | 83.2 | 202.3 | --- | 2.986 | -11.79 | 0.458 | 59.6 | 174.8 | -14.6 | 0.320 |
| 4-2290 | 4-2890 | 0.607 | 340.3 | -0.2 | 4.35 | 1.200 | 60.8 | 0.628 | 1.848 | 80.1 | 203.9 | --- | 3.008 | -12.40 | 0.469 | 59.1 | 177.5 | -15.4 | 0.326 |
| 4-2290 | 4-2910 | 0.591 | 340.6 | 2.8 | 5.65 | 1.203 | 62.0 | 0.621 | 1.870 | 77.0 | 205.4 | --- | 3.031 | -13.16 | 0.479 | 58.8 | 180.5 | -16.3 | 0.332 |
| 4-2290 | 4-2930 | 0.577 | 340.6 | 6.3 | 7.15 | 1.205 | 63.3 | 0.613 | 1.893 | 73.9 | 206.9 | --- | 3.053 | -14.14 | 0.489 | 58.5 | 183.7 | -17.5 | 0.339 |
| 4-2290 | 4-2950 | 0.566 | 340.2 | 10.4 | 8.90 | 1.208 | 64.5 | 0.606 | 1.916 | 70.7 | 208.4 | --- | 3.077 | -15.39 | 0.499 | 58.3 | 187.1 | -18.9 | 0.347 |
| 4-2290 | 4-2970 | 0.560 | 339.2 | 15.2 | 11.02 | 1.210 | 65.8 | 0.600 | 1.938 | 67.5 | 209.9 | --- | 3.101 | -17.01 | 0.507 | 58.1 | 190.8 | -20.7 | 0.357 |
| 4-2290 | 4-2990 | 0.562 | 337.3 | 20.7 | 13.66 | 1.213 | 67.0 | 0.593 | 1.961 | 64.2 | 211.3 | --- | 3.125 | -19.17 | 0.516 | 58.0 | 194.8 | -22.8 | 0.370 |
| 4-2290 | 4-3010 | 0.577 | 333.8 | 27.1 | 17.07 | 1.215 | 68.2 | 0.588 | 1.984 | 60.9 | 212.6 | --- | 3.150 | -22.11 | 0.523 | 57.9 | 199.3 | -25.4 | 0.388 |
| 4-2300 | 4-2460 | 1.255 | 329.1 | -23.4 | -23.65 | 1.250 | 26.3 | 0.932 | 2.357 | 137.9 | 163.6 | --- | --- | -25.04 | 0.509 | 158.0 | 179.0 | -7.2 | 0.641 |
| 4-2300 | 4-2480 | 1.195 | 329.3 | -22.7 | -20.34 | 1.216 | 28.2 | 0.911 | 1.967 | 137.2 | 166.4 | --- | --- | -22.10 | 0.421 | 151.9 | 177.2 | -7.6 | 0.561 |
| 4-2300 | 4-2500 | 1.146 | 329.7 | -22.0 | -17.66 | 1.193 | 29.9 | 0.893 | 1.779 | 136.0 | 168.8 | --- | --- | -19.80 | 0.354 | 144.4 | 175.3 | -8.0 | 0.499 |
| 4-2300 | 4-2520 | 1.106 | 330.3 | -21.2 | -15.45 | 1.179 | 31.6 | 0.877 | 1.676 | 134.6 | 171.1 | --- | --- | -17.98 | 0.306 | 135.5 | 173.3 | -8.4 | 0.452 |
| 4-2300 | 4-2540 | 1.071 | 331.0 | -20.5 | -13.58 | 1.170 | 33.2 | 0.862 | 1.618 | 133.0 | 173.2 | --- | --- | -16.51 | 0.274 | 125.4 | 171.1 | -8.8 | 0.415 |
| 4-2300 | 4-2560 | 1.040 | 331.7 | -19.7 | -11.97 | 1.164 | 34.7 | 0.848 | 1.585 | 131.1 | 175.1 | --- | --- | -15.32 | 0.256 | 114.9 | 169.1 | -9.1 | 0.387 |
| 4-2300 | 4-2580 | 1.012 | 332.5 | -18.9 | -10.55 | 1.161 | 36.2 | 0.834 | 1.569 | 129.2 | 177.0 | --- | --- | -14.33 | 0.250 | 104.6 | 167.2 | -9.4 | 0.366 |
| 4-2300 | 4-2600 | 0.986 | 333.4 | -18.1 | -9.28 | 1.160 | 37.6 | 0.821 | 1.563 | 127.1 | 178.8 | --- | --- | -13.51 | 0.252 | 95.3 | 165.4 | -9.6 | 0.351 |
| 4-2300 | 4-2620 | 0.961 | 334.3 | -17.3 | -8.13 | 1.161 | 39.0 | 0.809 | 1.565 | 124.9 | 180.6 | --- | 2.830 | -12.83 | 0.260 | 87.4 | 164.0 | -9.8 | 0.339 |
| 4-2300 | 4-2640 | 0.937 | 335.1 | -16.4 | -7.08 | 1.162 | 40.4 | 0.796 | 1.572 | 122.6 | 182.3 | --- | 2.824 | -12.27 | 0.273 | 80.9 | 163.0 | -10.0 | 0.331 |
| 4-2300 | 4-2660 | 0.915 | 336.1 | -15.5 | -6.10 | 1.164 | 41.7 | 0.784 | 1.583 | 120.3 | 184.1 | --- | 2.825 | -11.80 | 0.288 | 75.7 | 162.2 | -10.1 | 0.326 |
| 4-2300 | 4-2680 | 0.892 | 337.0 | -14.6 | -5.17 | 1.166 | 43.1 | 0.773 | 1.597 | 117.8 | 185.7 | --- | 2.831 | -11.42 | 0.304 | 71.5 | 161.9 | -10.2 | 0.323 |
| 4-2300 | 4-2700 | 0.870 | 337.9 | -13.6 | -4.29 | 1.169 | 44.4 | 0.761 | 1.614 | 115.3 | 187.4 | --- | 2.842 | -11.12 | 0.321 | 68.2 | 162.0 | -10.3 | 0.321 |
| 4-2300 | 4-2720 | 0.848 | 338.8 | -12.6 | -3.44 | 1.172 | 45.8 | 0.750 | 1.632 | 112.8 | 189.1 | --- | 2.856 | -10.89 | 0.337 | 65.5 | 162.4 | -10.4 | 0.321 |
| 4-2300 | 4-2740 | 0.827 | 339.7 | -11.5 | -2.61 | 1.175 | 47.1 | 0.739 | 1.652 | 110.2 | 190.7 | --- | 2.871 | -10.72 | 0.354 | 63.4 | 163.1 | -10.6 | 0.321 |
| 4-2300 | 4-2760 | 0.806 | 340.6 | -10.3 | -1.79 | 1.178 | 48.4 | 0.728 | 1.672 | 107.5 | 192.3 | --- | 2.889 | -10.62 | 0.370 | 61.7 | 164.2 | -10.7 | 0.323 |
| 4-2300 | 4-2780 | 0.785 | 341.5 | -9.0 | -0.97 | 1.181 | 49.7 | 0.717 | 1.694 | 104.7 | 194.0 | --- | 2.908 | -10.58 | 0.386 | 60.4 | 165.6 | -10.9 | 0.325 |
| 4-2300 | 4-2800 | 0.764 | 342.4 | -7.7 | -0.14 | 1.185 | 51.0 | 0.706 | 1.716 | 101.9 | 195.6 | --- | 2.928 | -10.60 | 0.401 | 59.3 | 167.3 | -11.2 | 0.327 |
| 4-2300 | 4-2820 | 0.743 | 343.3 | -6.2 | 0.70 | 1.188 | 52.3 | 0.696 | 1.739 | 99.1 | 197.2 | --- | 2.949 | -10.68 | 0.415 | 58.5 | 169.2 | -11.5 | 0.330 |
| 4-2300 | 4-2840 | 0.723 | 344.1 | -4.5 | 1.57 | 1.191 | 53.6 | 0.686 | 1.762 | 96.2 | 198.8 | --- | 2.971 | -10.84 | 0.429 | 57.8 | 171.4 | -11.8 | 0.333 |
| 4-2300 | 4-2860 | 0.702 | 344.8 | -2.7 | 2.48 | 1.194 | 54.9 | 0.676 | 1.786 | 93.2 | 200.4 | --- | 2.993 | -11.07 | 0.442 | 57.3 | 173.8 | -12.2 | 0.337 |
| 4-2300 | 4-2880 | 0.683 | 345.5 | -0.7 | 3.45 | 1.197 | 56.3 | 0.667 | 1.809 | 90.2 | 201.9 | --- | 3.015 | -11.40 | 0.454 | 56.9 | 176.4 | -12.8 | 0.341 |
| 4-2300 | 4-2900 | 0.664 | 346.1 | 1.5 | 4.50 | 1.200 | 57.6 | 0.657 | 1.833 | 87.1 | 203.5 | --- | 3.038 | -11.82 | 0.466 | 56.6 | 179.2 | -13.4 | 0.345 |
| 4-2300 | 4-2920 | 0.645 | 346.5 | 4.0 | 5.64 | 1.203 | 58.9 | 0.648 | 1.857 | 83.9 | 205.0 | --- | 3.061 | -12.37 | 0.477 | 56.4 | 182.2 | -14.1 | 0.349 |
| 4-2300 | 4-2940 | 0.629 | 346.8 | 6.9 | 6.91 | 1.206 | 60.2 | 0.640 | 1.881 | 80.7 | 206.5 | --- | 3.085 | -13.07 | 0.487 | 56.3 | 185.4 | -15.0 | 0.355 |
| 4-2300 | 4-2960 | 0.614 | 346.8 | 10.2 | 8.35 | 1.209 | 61.5 | 0.632 | 1.905 | 77.5 | 207.9 | --- | 3.108 | -13.96 | 0.497 | 56.2 | 188.7 | -16.1 | 0.360 |
| 4-2300 | 4-2980 | 0.602 | 346.4 | 14.0 | 10.02 | 1.211 | 62.9 | 0.624 | 1.929 | 74.2 | 209.4 | --- | 3.132 | -15.10 | 0.506 | 56.2 | 192.3 | -17.4 | 0.367 |
| 4-2300 | 4-3000 | 0.594 | 345.5 | 18.3 | 12.01 | 1.214 | 64.2 | 0.616 | 1.953 | 70.8 | 210.8 | --- | 3.157 | -16.57 | 0.515 | 56.2 | 196.1 | -18.9 | 0.376 |
| 4-2300 | 4-3020 | 0.594 | 343.8 | 23.3 | 14.45 | 1.217 | 65.5 | 0.609 | 1.977 | 67.4 | 212.1 | --- | 3.182 | -18.50 | 0.522 | 56.2 | 200.2 | -20.9 | 0.386 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2520 | 4-2760 | 0.800 | 21.4 | 12.5 | 2.54 | 1.292 | 127.3 | 0.810 | 3.090 | 274.3 | 498.8 | 0.589 | --- | -12.27 | 0.641 | 143.7 | 255.4 | -7.5 | 0.616 |
| 4-2520 | 4-2780 | 0.743 | 21.7 | 11.0 | 1.29 | 1.259 | 125.2 | 0.752 | 2.460 | 274.8 | 503.6 | 0.609 | --- | -11.41 | 0.577 | 138.5 | 256.3 | -8.1 | 0.539 |
| 4-2520 | 4-2800 | 0.699 | 22.1 | 9.5 | 0.18 | 1.235 | 123.5 | 0.707 | 2.140 | 275.2 | 508.4 | 0.626 | --- | -10.71 | 0.525 | 133.0 | 256.6 | -8.7 | 0.473 |
| 4-2520 | 4-2820 | 0.665 | 22.5 | 8.0 | -0.82 | 1.217 | 122.1 | 0.673 | 1.952 | 275.6 | 513.2 | 0.639 | --- | -10.15 | 0.485 | 127.2 | 256.4 | -9.4 | 0.418 |
| 4-2520 | 4-2840 | 0.640 | 23.0 | 6.6 | -1.73 | 1.203 | 121.1 | 0.646 | 1.833 | 275.7 | 517.9 | 0.649 | --- | -9.69 | 0.454 | 121.2 | 255.4 | -10.1 | 0.372 |
| 4-2520 | 4-2860 | 0.622 | 23.6 | 5.3 | -2.58 | 1.193 | 120.4 | 0.626 | 1.755 | 275.7 | 522.5 | 0.656 | --- | -9.32 | 0.431 | 115.1 | 253.7 | -10.9 | 0.334 |
| 4-2520 | 4-2880 | 0.611 | 24.3 | 4.0 | -3.38 | 1.185 | 119.9 | 0.613 | 1.701 | 275.5 | 526.9 | 0.659 | --- | -9.04 | 0.414 | 109.0 | 251.1 | -11.7 | 0.304 |
| 4-2520 | 4-2900 | 0.607 | 25.1 | 2.9 | -4.15 | 1.180 | 119.8 | 0.604 | 1.665 | 275.0 | 531.1 | 0.659 | --- | -8.82 | 0.403 | 103.1 | 247.7 | -12.3 | 0.282 |
| 4-2520 | 4-2920 | 0.608 | 25.9 | 1.9 | -4.89 | 1.176 | 119.8 | 0.601 | 1.640 | 274.3 | 535.1 | 0.655 | --- | -8.67 | 0.396 | 97.4 | 243.8 | -12.8 | 0.268 |
| 4-2520 | 4-2940 | 0.614 | 26.9 | 1.1 | -5.62 | 1.173 | 120.1 | 0.601 | 1.624 | 273.2 | 538.8 | 0.648 | --- | -8.59 | 0.392 | 91.9 | 239.7 | -13.0 | 0.261 |
| 4-2520 | 4-2960 | 0.625 | 28.0 | 0.5 | -6.34 | 1.172 | 120.7 | 0.605 | 1.615 | 271.8 | 542.2 | 0.637 | 2.593 | -8.56 | 0.391 | 86.7 | 235.8 | -12.9 | 0.261 |
| 4-2520 | 4-2980 | 0.640 | 29.2 | 0.1 | -7.07 | 1.171 | 121.5 | 0.613 | 1.611 | 270.1 | 545.3 | 0.623 | 2.599 | -8.60 | 0.392 | 81.7 | 232.5 | -12.5 | 0.267 |
| 4-2520 | 4-3000 | 0.660 | 30.4 | -0.1 | -7.82 | 1.171 | 122.5 | 0.625 | 1.611 | 268.0 | 548.1 | 0.605 | 2.617 | -8.69 | 0.395 | 77.0 | 230.1 | -12.0 | 0.279 |
| 4-2520 | 4-3020 | 0.685 | 31.8 | -0.2 | -8.59 | 1.172 | 123.8 | 0.639 | 1.614 | 265.6 | 550.6 | 0.582 | 2.645 | -8.86 | 0.399 | 72.5 | 228.7 | -11.5 | 0.295 |
| 4-2520 | 4-3040 | 0.714 | 33.3 | -0.0 | -9.40 | 1.173 | 125.4 | 0.657 | 1.620 | 262.8 | 552.7 | 0.556 | 2.683 | -9.11 | 0.403 | 68.2 | 228.3 | -10.8 | 0.315 |
| 4-2520 | 4-3060 | 0.748 | 34.8 | 0.3 | -10.27 | 1.174 | 127.2 | 0.677 | 1.628 | 259.7 | 554.4 | 0.526 | 2.729 | -9.43 | 0.408 | 63.9 | 228.8 | -10.2 | 0.339 |
| 4-2520 | 4-3080 | 0.787 | 36.5 | 0.7 | -11.21 | 1.175 | 129.2 | 0.700 | 1.637 | 256.1 | 555.8 | 0.491 | 2.783 | -9.87 | 0.414 | 59.7 | 230.1 | -9.6 | 0.365 |
| 4-2520 | 4-3100 | 0.831 | 38.3 | 1.4 | -12.25 | 1.177 | 131.6 | 0.726 | 1.649 | 252.2 | 556.8 | 0.453 | 2.845 | -10.42 | 0.419 | 55.6 | 232.2 | -9.1 | 0.394 |
| 4-2520 | 4-3120 | 0.879 | 40.2 | 2.1 | -13.42 | 1.179 | 134.3 | 0.753 | 1.662 | 247.8 | 557.4 | 0.410 | 2.914 | -11.13 | 0.424 | 51.3 | 234.9 | -8.6 | 0.425 |
| 4-2520 | 4-3140 | 0.933 | 42.2 | 3.0 | -14.77 | 1.181 | 137.2 | 0.783 | 1.676 | 243.1 | 557.5 | 0.364 | 2.989 | -12.03 | 0.430 | 47.0 | 238.2 | -8.2 | 0.459 |
| 4-2520 | 4-3160 | 0.992 | 44.4 | 4.0 | -16.36 | 1.184 | 140.5 | 0.814 | 1.692 | 238.0 | 557.3 | 0.315 | 3.070 | -13.19 | 0.435 | 42.6 | 242.0 | -7.8 | 0.494 |
| 4-2520 | 4-3180 | 1.056 | 46.6 | 5.1 | -18.29 | 1.186 | 144.1 | 0.845 | 1.709 | 232.5 | 556.6 | 0.264 | 3.155 | -14.70 | 0.440 | 38.1 | 246.3 | -7.5 | 0.531 |
| 4-2520 | 4-3200 | 1.124 | 49.1 | 6.3 | -20.71 | 1.189 | 148.0 | 0.877 | 1.728 | 226.7 | 555.5 | 0.213 | 3.243 | -16.73 | 0.445 | 33.5 | 250.9 | -7.1 | 0.570 |
| 4-2520 | 4-3220 | 1.197 | 51.6 | 7.5 | -23.89 | 1.192 | 152.1 | 0.906 | 1.748 | 220.6 | 554.1 | 0.164 | 3.332 | -19.52 | 0.450 | 28.8 | 255.9 | -6.8 | 0.610 |
| 4-2520 | 4-3240 | 1.272 | 54.3 | 8.9 | -28.27 | 1.195 | 156.4 | 0.933 | 1.769 | 214.2 | 552.3 | 0.119 | 3.419 | -23.51 | 0.455 | 24.0 | 261.2 | -6.5 | 0.650 |
| 4-2530 | 4-2770 | 0.762 | 28.2 | 15.0 | 2.29 | 1.294 | 125.0 | 0.803 | 3.209 | 279.4 | 496.3 | 0.631 | --- | -12.35 | 0.652 | 142.9 | 258.8 | -7.9 | 0.615 |
| 4-2530 | 4-2790 | 0.704 | 28.5 | 13.1 | 0.84 | 1.262 | 122.9 | 0.742 | 2.532 | 280.0 | 501.2 | 0.652 | --- | -11.23 | 0.588 | 137.8 | 259.8 | -8.2 | 0.537 |
| 4-2530 | 4-2810 | 0.660 | 28.9 | 11.2 | -0.38 | 1.237 | 121.2 | 0.695 | 2.192 | 280.5 | 506.2 | 0.669 | --- | -10.34 | 0.538 | 132.4 | 260.3 | -8.7 | 0.471 |
| 4-2530 | 4-2830 | 0.626 | 29.4 | 9.4 | -1.45 | 1.219 | 119.9 | 0.657 | 1.994 | 280.9 | 511.1 | 0.683 | --- | -9.62 | 0.498 | 126.8 | 260.3 | -9.2 | 0.415 |
| 4-2530 | 4-2850 | 0.600 | 29.9 | 7.7 | -2.39 | 1.205 | 118.8 | 0.629 | 1.869 | 281.2 | 516.0 | 0.694 | --- | -9.05 | 0.467 | 121.0 | 259.6 | -9.8 | 0.368 |
| 4-2530 | 4-2870 | 0.583 | 30.5 | 6.2 | -3.24 | 1.195 | 118.0 | 0.608 | 1.786 | 281.3 | 520.7 | 0.701 | --- | -8.58 | 0.444 | 115.2 | 258.1 | -10.5 | 0.330 |
| 4-2530 | 4-2890 | 0.571 | 31.2 | 4.8 | -4.03 | 1.187 | 117.5 | 0.592 | 1.730 | 281.2 | 525.2 | 0.705 | --- | -8.21 | 0.428 | 109.5 | 255.8 | -11.1 | 0.299 |
| 4-2530 | 4-2910 | 0.566 | 32.0 | 3.5 | -4.75 | 1.181 | 117.3 | 0.583 | 1.691 | 280.9 | 529.6 | 0.706 | --- | -7.92 | 0.416 | 103.9 | 252.6 | -11.7 | 0.275 |
| 4-2530 | 4-2930 | 0.566 | 32.8 | 2.5 | -5.44 | 1.177 | 117.3 | 0.578 | 1.665 | 280.2 | 533.7 | 0.703 | --- | -7.69 | 0.409 | 98.5 | 248.9 | -12.1 | 0.259 |
| 4-2530 | 4-2950 | 0.570 | 33.7 | 1.7 | -6.10 | 1.175 | 117.5 | 0.577 | 1.648 | 279.3 | 537.5 | 0.698 | --- | -7.53 | 0.405 | 93.4 | 244.8 | -12.3 | 0.250 |
| 4-2530 | 4-2970 | 0.579 | 34.8 | 1.0 | -6.75 | 1.173 | 118.0 | 0.579 | 1.638 | 278.0 | 541.1 | 0.689 | 2.587 | -7.43 | 0.403 | 88.5 | 240.7 | -12.2 | 0.247 |
| 4-2530 | 4-2990 | 0.593 | 35.9 | 0.6 | -7.38 | 1.172 | 118.6 | 0.586 | 1.633 | 276.4 | 544.4 | 0.677 | 2.589 | -7.38 | 0.404 | 83.8 | 237.2 | -11.8 | 0.251 |
| 4-2530 | 4-3010 | 0.610 | 37.1 | 0.4 | -8.01 | 1.172 | 119.5 | 0.595 | 1.632 | 274.5 | 547.4 | 0.661 | 2.603 | -7.38 | 0.406 | 79.4 | 234.5 | -11.4 | 0.261 |
| 4-2530 | 4-3030 | 0.632 | 38.3 | 0.4 | -8.66 | 1.173 | 120.7 | 0.608 | 1.634 | 272.3 | 550.0 | 0.641 | 2.627 | -7.44 | 0.409 | 75.2 | 232.7 | -10.8 | 0.274 |
| 4-2530 | 4-3050 | 0.657 | 39.7 | 0.6 | -9.31 | 1.173 | 122.0 | 0.623 | 1.639 | 269.7 | 552.4 | 0.618 | 2.660 | -7.56 | 0.413 | 71.2 | 231.9 | -10.1 | 0.292 |
| 4-2530 | 4-3070 | 0.687 | 41.2 | 0.9 | -10.00 | 1.174 | 123.6 | 0.641 | 1.646 | 266.7 | 554.3 | 0.591 | 2.701 | -7.74 | 0.417 | 67.3 | 232.1 | -9.5 | 0.313 |
| 4-2530 | 4-3090 | 0.722 | 42.7 | 1.4 | -10.73 | 1.176 | 125.4 | 0.662 | 1.655 | 263.4 | 556.0 | 0.560 | 2.751 | -7.99 | 0.422 | 63.4 | 233.1 | -9.0 | 0.337 |
| 4-2530 | 4-3110 | 0.760 | 44.4 | 2.1 | -11.51 | 1.178 | 127.5 | 0.685 | 1.666 | 259.7 | 557.2 | 0.524 | 2.808 | -8.32 | 0.426 | 59.5 | 234.8 | -8.4 | 0.363 |
| 4-2530 | 4-3130 | 0.803 | 46.2 | 2.8 | -12.37 | 1.179 | 129.9 | 0.711 | 1.678 | 255.7 | 558.1 | 0.485 | 2.872 | -8.75 | 0.431 | 55.7 | 237.2 | -8.0 | 0.391 |
| 4-2530 | 4-3150 | 0.851 | 48.1 | 3.7 | -13.32 | 1.181 | 132.6 | 0.739 | 1.692 | 251.2 | 558.6 | 0.441 | 2.942 | -9.30 | 0.436 | 51.7 | 240.2 | -7.5 | 0.421 |
| 4-2530 | 4-3170 | 0.904 | 50.1 | 4.7 | -14.41 | 1.184 | 135.5 | 0.769 | 1.707 | 246.5 | 558.8 | 0.394 | 3.019 | -9.99 | 0.440 | 47.7 | 243.6 | -7.2 | 0.453 |
| 4-2530 | 4-3190 | 0.962 | 52.2 | 5.8 | -15.67 | 1.186 | 138.7 | 0.800 | 1.723 | 241.3 | 558.5 | 0.344 | 3.101 | -10.89 | 0.444 | 43.6 | 247.6 | -6.8 | 0.487 |
| 4-2530 | 4-3210 | 1.024 | 54.4 | 7.0 | -17.19 | 1.188 | 142.3 | 0.832 | 1.740 | 235.8 | 557.8 | 0.292 | 3.188 | -12.04 | 0.449 | 39.3 | 251.9 | -6.5 | 0.522 |
| 4-2530 | 4-3230 | 1.090 | 56.8 | 8.2 | -19.06 | 1.191 | 146.1 | 0.864 | 1.758 | 229.9 | 556.7 | 0.240 | 3.277 | -13.56 | 0.453 | 34.8 | 256.6 | -6.2 | 0.559 |
| 4-2530 | 4-3250 | 1.160 | 59.4 | 9.5 | -21.45 | 1.194 | 150.2 | 0.894 | 1.778 | 223.7 | 555.3 | 0.188 | 3.368 | -15.62 | 0.457 | 30.3 | 261.6 | -6.0 | 0.597 |
| 4-2530 | 4-3270 | 1.234 | 62.0 | 10.7 | -24.67 | 1.196 | 154.5 | 0.922 | 1.799 | 217.3 | 553.5 | 0.140 | 3.459 | -18.51 | 0.461 | 25.6 | 266.8 | -5.7 | 0.636 |
| 4-2540 | 4-2780 | 0.722 | 34.9 | 17.1 | 1.98 | 1.296 | 122.7 | 0.796 | 3.311 | 284.6 | 493.9 | 0.674 | --- | -12.29 | 0.661 | 142.0 | 262.0 | -8.1 | 0.612 |
| 4-2540 | 4-2800 | 0.665 | 35.3 | 14.5 | 0.26 | 1.264 | 120.6 | 0.732 | 2.595 | 285.3 | 499.0 | 0.695 | --- | -10.82 | 0.598 | 137.0 | 263.2 | -8.3 | 0.533 |
| 4-2540 | 4-2820 | 0.621 | 35.8 | 12.2 | -1.12 | 1.239 | 118.9 | 0.682 | 2.239 | 285.9 | 504.1 | 0.712 | --- | -9.70 | 0.548 | 131.8 | 263.9 | -8.5 | 0.467 |
| 4-2540 | 4-2840 | 0.587 | 36.3 | 10.0 | -2.26 | 1.221 | 117.6 | 0.643 | 2.032 | 286.4 | 509.2 | 0.726 | --- | -8.84 | 0.509 | 126.3 | 264.1 | -8.8 | 0.411 |
| 4-2540 | 4-2860 | 0.562 | 36.9 | 8.0 | -3.23 | 1.207 | 116.5 | 0.613 | 1.902 | 286.8 | 514.1 | 0.737 | --- | -8.15 | 0.479 | 120.8 | 263.5 | -9.2 | 0.364 |
| 4-2540 | 4-2880 | 0.545 | 37.5 | 6.3 | -4.07 | 1.196 | 115.7 | 0.590 | 1.815 | 287.0 | 519.0 | 0.744 | --- | -7.61 | 0.456 | 115.2 | 262.3 | -9.7 | 0.324 |
| 4-2540 | 4-2900 | 0.533 | 38.1 | 4.7 | -4.82 | 1.189 | 115.2 | 0.574 | 1.757 | 287.0 | 523.7 | 0.749 | --- | -7.17 | 0.440 | 109.8 | 260.1 | -10.2 | 0.292 |
| 4-2540 | 4-2920 | 0.528 | 38.8 | 3.4 | -5.50 | 1.183 | 114.9 | 0.563 | 1.716 | 286.7 | 528.1 | 0.750 | --- | -6.82 | 0.428 | 104.4 | 257.2 | -10.6 | 0.268 |
| 4-2540 | 4-2940 | 0.527 | 39.7 | 2.3 | -6.12 | 1.179 | 114.8 | 0.557 | 1.689 | 286.2 | 532.4 | 0.749 | --- | -6.54 | 0.421 | 99.3 | 253.6 | -10.9 | 0.250 |
| 4-2540 | 4-2960 | 0.530 | 40.5 | 1.5 | -6.71 | 1.176 | 115.0 | 0.554 | 1.671 | 285.4 | 536.4 | 0.745 | --- | -6.33 | 0.417 | 94.5 | 249.5 | -11.0 | 0.239 |
| 4-2540 | 4-2980 | 0.538 | 41.5 | 0.9 | -7.26 | 1.174 | 115.4 | 0.556 | 1.660 | 284.2 | 540.1 | 0.737 | 2.582 | -6.17 | 0.415 | 89.9 | 245.4 | -10.9 | 0.235 |
| 4-2540 | 4-3000 | 0.549 | 42.5 | 0.5 | -7.80 | 1.174 | 116.0 | 0.561 | 1.654 | 282.7 | 543.5 | 0.727 | 2.581 | -6.06 | 0.415 | 85.5 | 241.7 | -10.6 | 0.237 |
| 4-2540 | 4-3020 | 0.565 | 43.6 | 0.4 | -8.32 | 1.173 | 116.7 | 0.569 | 1.652 | 280.9 | 546.6 | 0.713 | 2.591 | -6.00 | 0.416 | 81.4 | 238.7 | -10.1 | 0.245 |
| 4-2540 | 4-3040 | 0.583 | 44.9 | 0.4 | -8.84 | 1.174 | 117.7 | 0.579 | 1.654 | 278.8 | 549.5 | 0.696 | 2.612 | -5.99 | 0.419 | 77.5 | 236.6 | -9.6 | 0.257 |
| 4-2540 | 4-3060 | 0.606 | 46.1 | 0.7 | -9.36 | 1.174 | 118.9 | 0.593 | 1.658 | 276.4 | 552.0 | 0.675 | 2.641 | -6.02 | 0.422 | 73.7 | 235.5 | -9.0 | 0.272 |
| 4-2540 | 4-3080 | 0.632 | 47.5 | 1.1 | -9.89 | 1.175 | 120.4 | 0.609 | 1.665 | 273.6 | 554.1 | 0.651 | 2.679 | -6.09 | 0.426 | 70.1 | 235.4 | -8.4 | 0.291 |
| 4-2540 | 4-3100 | 0.663 | 49.0 | 1.7 | -10.44 | 1.177 | 122.0 | 0.628 | 1.673 | 270.4 | 556.0 | 0.623 | 2.724 | -6.21 | 0.429 | 66.5 | 236.1 | -7.9 | 0.312 |
| 4-2540 | 4-3120 | 0.697 | 50.5 | 2.4 | -11.02 | 1.178 | 123.9 | 0.649 | 1.683 | 267.0 | 557.5 | 0.591 | 2.776 | -6.39 | 0.433 | 62.9 | 237.5 | -7.4 | 0.335 |
| 4-2540 | 4-3140 | 0.735 | 52.2 | 3.2 | -11.63 | 1.180 | 126.0 | 0.673 | 1.695 | 263.2 | 558.6 | 0.555 | 2.835 | -6.63 | 0.437 | 59.4 | 239.6 | -6.9 | 0.361 |
| 4-2540 | 4-3160 | 0.777 | 54.0 | 4.2 | -12.30 | 1.182 | 128.3 | 0.698 | 1.708 | 259.0 | 559.4 | 0.515 | 2.901 | -6.95 | 0.441 | 55.8 | 242.3 | -6.5 | 0.388 |
| 4-2540 | 4-3180 | 0.824 | 55.9 | 5.2 | -13.04 | 1.184 | 131.0 | 0.726 | 1.722 | 254.5 | 559.8 | 0.471 | 2.973 | -7.34 | 0.445 | 52.1 | 245.5 | -6.2 | 0.417 |
| 4-2540 | 4-3200 | 0.876 | 57.9 | 6.3 | -13.86 | 1.186 | 133.9 | 0.756 | 1.737 | 249.7 | 559.9 | 0.424 | 3.051 | -7.85 | 0.449 | 48.3 | 249.1 | -5.9 | 0.448 |
| 4-2540 | 4-3220 | 0.931 | 60.0 | 7.5 | -14.81 | 1.188 | 137.1 | 0.787 | 1.753 | 244.5 | 559.6 | 0.373 | 3.134 | -8.50 | 0.452 | 44.4 | 253.2 | -5.6 | 0.480 |
| 4-2540 | 4-3240 | 0.991 | 62.2 | 8.7 | -15.94 | 1.190 | 140.5 | 0.819 | 1.771 | 239.0 | 558.9 | 0.320 | 3.221 | -9.33 | 0.456 | 40.3 | 257.5 | -5.3 | 0.514 |
| 4-2540 | 4-3260 | 1.056 | 64.6 | 9.9 | -17.30 | 1.193 | 144.3 | 0.851 | 1.789 | 233.1 | 557.8 | 0.267 | 3.312 | -10.41 | 0.459 | 36.1 | 262.2 | -5.1 | 0.549 |
| 4-2540 | 4-3280 | 1.124 | 67.2 | 11.2 | -19.01 | 1.195 | 148.3 | 0.882 | 1.809 | 226.9 | 556.4 | 0.213 | 3.404 | -11.84 | 0.462 | 31.7 | 267.2 | -4.9 | 0.585 |
| 4-2540 | 4-3300 | 1.195 | 69.8 | 12.4 | -21.26 | 1.198 | 152.6 | 0.911 | 1.830 | 220.5 | 554.7 | 0.162 | 3.497 | -13.83 | 0.465 | 27.2 | 272.4 | -4.7 | 0.621 |
| 4-2550 | 4-2790 | 0.680 | 41.5 | 18.6 | 1.49 | 1.297 | 120.3 | 0.788 | 3.389 | 289.8 | 491.7 | 0.717 | --- | -11.98 | 0.668 | 141.1 | 265.2 | -8.3 | 0.606 |
| 4-2550 | 4-2810 | 0.624 | 42.1 | 15.1 | -0.62 | 1.265 | 118.3 | 0.721 | 2.646 | 290.6 | 497.0 | 0.737 | --- | -10.05 | 0.606 | 136.2 | 266.5 | -8.0 | 0.527 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2550 | 4-2830 | 0.582 | 42.7 | 12.1 | -2.17 | 1.240 | 116.6 | 0.669 | 2.278 | 291.4 | 502.2 | 0.754 | --- | -8.68 | 0.557 | 131.0 | 267.4 | -7.9 | 0.461 |
| 4-2550 | 4-2850 | 0.550 | 43.3 | 9.5 | -3.37 | 1.222 | 115.3 | 0.628 | 2.065 | 292.0 | 507.4 | 0.767 | --- | -7.68 | 0.519 | 125.7 | 267.6 | -8.0 | 0.405 |
| 4-2550 | 4-2870 | 0.526 | 43.8 | 7.2 | -4.34 | 1.208 | 114.2 | 0.597 | 1.931 | 292.5 | 512.5 | 0.778 | --- | -6.91 | 0.489 | 120.4 | 267.3 | -8.2 | 0.358 |
| 4-2550 | 4-2890 | 0.509 | 44.4 | 5.2 | -5.15 | 1.198 | 113.4 | 0.573 | 1.842 | 292.8 | 517.5 | 0.785 | --- | -6.31 | 0.467 | 115.0 | 266.1 | -8.4 | 0.318 |
| 4-2550 | 4-2910 | 0.498 | 45.0 | 3.6 | -5.83 | 1.190 | 112.9 | 0.556 | 1.781 | 292.9 | 522.3 | 0.790 | --- | -5.85 | 0.451 | 109.8 | 264.2 | -8.7 | 0.286 |
| 4-2550 | 4-2930 | 0.492 | 45.7 | 2.2 | -6.44 | 1.184 | 112.6 | 0.544 | 1.739 | 292.7 | 526.9 | 0.792 | --- | -5.47 | 0.439 | 104.7 | 261.4 | -9.0 | 0.260 |
| 4-2550 | 4-2950 | 0.491 | 46.5 | 1.2 | -6.97 | 1.180 | 112.5 | 0.537 | 1.711 | 292.2 | 531.2 | 0.792 | --- | -5.18 | 0.432 | 99.9 | 257.9 | -9.1 | 0.242 |
| 4-2550 | 4-2970 | 0.493 | 47.3 | 0.4 | -7.46 | 1.178 | 112.6 | 0.534 | 1.692 | 291.5 | 535.4 | 0.788 | --- | -4.94 | 0.427 | 95.3 | 253.8 | -9.2 | 0.230 |
| 4-2550 | 4-2990 | 0.500 | 48.2 | -0.1 | -7.92 | 1.176 | 112.9 | 0.535 | 1.680 | 290.4 | 539.2 | 0.782 | --- | -4.76 | 0.425 | 90.9 | 249.7 | -9.0 | 0.225 |
| 4-2550 | 4-3010 | 0.510 | 49.1 | -0.4 | -8.34 | 1.175 | 113.4 | 0.538 | 1.674 | 289.0 | 542.7 | 0.773 | 2.575 | -4.62 | 0.425 | 86.9 | 245.8 | -8.7 | 0.225 |
| 4-2550 | 4-3030 | 0.523 | 50.2 | -0.4 | -8.75 | 1.174 | 114.1 | 0.545 | 1.672 | 287.3 | 545.9 | 0.761 | 2.583 | -4.53 | 0.426 | 83.0 | 242.6 | -8.3 | 0.231 |
| 4-2550 | 4-3050 | 0.540 | 51.3 | -0.2 | -9.14 | 1.175 | 115.0 | 0.554 | 1.673 | 285.3 | 548.9 | 0.746 | 2.600 | -4.47 | 0.428 | 79.3 | 240.3 | -7.8 | 0.241 |
| 4-2550 | 4-3070 | 0.559 | 52.5 | 0.2 | -9.53 | 1.175 | 116.1 | 0.566 | 1.677 | 283.0 | 551.5 | 0.728 | 2.626 | -4.44 | 0.430 | 75.8 | 239.0 | -7.3 | 0.255 |
| 4-2550 | 4-3090 | 0.583 | 53.8 | 0.8 | -9.92 | 1.176 | 117.4 | 0.580 | 1.683 | 280.3 | 553.8 | 0.706 | 2.660 | -4.45 | 0.433 | 72.4 | 238.6 | -6.8 | 0.271 |
| 4-2550 | 4-3110 | 0.609 | 55.2 | 1.5 | -10.31 | 1.177 | 118.8 | 0.597 | 1.691 | 277.3 | 555.8 | 0.681 | 2.701 | -4.49 | 0.437 | 69.1 | 239.1 | -6.3 | 0.291 |
| 4-2550 | 4-3130 | 0.639 | 56.7 | 2.3 | -10.71 | 1.179 | 120.5 | 0.616 | 1.701 | 274.0 | 557.5 | 0.653 | 2.749 | -4.56 | 0.440 | 65.8 | 240.3 | -5.9 | 0.312 |
| 4-2550 | 4-3150 | 0.673 | 58.3 | 3.2 | -11.13 | 1.180 | 122.4 | 0.638 | 1.712 | 270.4 | 558.9 | 0.620 | 2.804 | -4.68 | 0.444 | 62.5 | 242.2 | -5.5 | 0.335 |
| 4-2550 | 4-3170 | 0.710 | 59.9 | 4.3 | -11.57 | 1.182 | 124.5 | 0.661 | 1.725 | 266.5 | 559.9 | 0.584 | 2.865 | -4.84 | 0.447 | 59.2 | 244.6 | -5.2 | 0.360 |
| 4-2550 | 4-3190 | 0.752 | 61.7 | 5.4 | -12.05 | 1.184 | 126.9 | 0.687 | 1.738 | 262.2 | 560.6 | 0.544 | 2.932 | -5.04 | 0.450 | 55.9 | 247.6 | -4.9 | 0.386 |
| 4-2550 | 4-3210 | 0.797 | 63.6 | 6.5 | -12.56 | 1.186 | 129.5 | 0.715 | 1.753 | 257.7 | 561.0 | 0.500 | 3.005 | -5.31 | 0.453 | 52.4 | 250.9 | -4.6 | 0.414 |
| 4-2550 | 4-3230 | 0.847 | 65.6 | 7.7 | -13.14 | 1.188 | 132.3 | 0.744 | 1.768 | 252.8 | 561.0 | 0.452 | 3.084 | -5.65 | 0.456 | 48.9 | 254.7 | -4.4 | 0.443 |
| 4-2550 | 4-3250 | 0.901 | 67.8 | 9.0 | -13.80 | 1.190 | 135.5 | 0.775 | 1.785 | 247.6 | 560.7 | 0.402 | 3.168 | -6.08 | 0.459 | 45.2 | 258.8 | -4.2 | 0.473 |
| 4-2550 | 4-3270 | 0.959 | 70.1 | 10.2 | -14.56 | 1.193 | 138.9 | 0.806 | 1.802 | 242.1 | 560.0 | 0.349 | 3.256 | -6.62 | 0.462 | 41.3 | 263.2 | -4.0 | 0.505 |
| 4-2550 | 4-3290 | 1.021 | 72.5 | 11.4 | -15.47 | 1.195 | 142.5 | 0.838 | 1.821 | 236.3 | 558.9 | 0.294 | 3.347 | -7.32 | 0.464 | 37.3 | 267.9 | -3.8 | 0.538 |
| 4-2550 | 4-3310 | 1.087 | 75.0 | 12.7 | -16.59 | 1.198 | 146.4 | 0.870 | 1.840 | 230.2 | 557.5 | 0.240 | 3.440 | -8.24 | 0.467 | 33.1 | 272.9 | -3.7 | 0.572 |
| 4-2550 | 4-3330 | 1.155 | 77.7 | 13.8 | -18.03 | 1.200 | 150.6 | 0.899 | 1.860 | 223.8 | 555.8 | 0.187 | 3.534 | -9.48 | 0.469 | 28.8 | 278.0 | -3.5 | 0.607 |
| 4-2550 | 4-3350 | 1.226 | 80.4 | 15.0 | -19.96 | 1.203 | 155.0 | 0.927 | 1.882 | 217.2 | 553.8 | 0.138 | 3.626 | -11.22 | 0.472 | 24.3 | 283.4 | -3.4 | 0.641 |
| 4-2560 | 4-2800 | 0.637 | 48.2 | 19.0 | 0.57 | 1.297 | 117.9 | 0.779 | 3.439 | 295.3 | 489.7 | 0.759 | --- | -11.16 | 0.673 | 140.1 | 268.3 | -8.0 | 0.598 |
| 4-2560 | 4-2820 | 0.584 | 49.1 | 13.8 | -2.13 | 1.265 | 115.9 | 0.710 | 2.682 | 296.1 | 495.1 | 0.778 | --- | -8.57 | 0.612 | 135.2 | 269.8 | -7.1 | 0.519 |
| 4-2560 | 4-2840 | 0.544 | 49.8 | 10.0 | -3.85 | 1.241 | 114.3 | 0.656 | 2.308 | 297.0 | 500.5 | 0.794 | --- | -6.97 | 0.564 | 130.2 | 270.7 | -6.6 | 0.453 |
| 4-2560 | 4-2860 | 0.514 | 50.4 | 7.0 | -5.04 | 1.223 | 112.9 | 0.614 | 2.091 | 297.7 | 505.8 | 0.807 | --- | -5.89 | 0.526 | 125.0 | 271.1 | -6.4 | 0.397 |
| 4-2560 | 4-2880 | 0.492 | 51.0 | 4.5 | -5.93 | 1.209 | 111.9 | 0.582 | 1.955 | 298.3 | 511.1 | 0.817 | --- | -5.13 | 0.498 | 119.8 | 270.8 | -6.3 | 0.350 |
| 4-2560 | 4-2900 | 0.477 | 51.5 | 2.5 | -6.62 | 1.199 | 111.1 | 0.558 | 1.864 | 298.7 | 516.2 | 0.825 | --- | -4.56 | 0.476 | 114.7 | 269.7 | -6.4 | 0.310 |
| 4-2560 | 4-2920 | 0.466 | 52.0 | 0.9 | -7.19 | 1.191 | 110.6 | 0.540 | 1.803 | 298.8 | 521.1 | 0.829 | --- | -4.13 | 0.460 | 109.7 | 267.9 | -6.4 | 0.278 |
| 4-2560 | 4-2940 | 0.461 | 52.6 | -0.4 | -7.66 | 1.186 | 110.3 | 0.527 | 1.760 | 298.7 | 525.8 | 0.832 | --- | -3.79 | 0.448 | 104.8 | 265.2 | -6.5 | 0.253 |
| 4-2560 | 4-2960 | 0.459 | 53.2 | -1.3 | -8.07 | 1.182 | 110.1 | 0.520 | 1.731 | 298.4 | 530.3 | 0.831 | --- | -3.52 | 0.441 | 100.2 | 261.7 | -6.6 | 0.234 |
| 4-2560 | 4-2980 | 0.461 | 53.9 | -1.9 | -8.43 | 1.179 | 110.2 | 0.516 | 1.712 | 297.7 | 534.5 | 0.829 | --- | -3.32 | 0.436 | 95.8 | 257.7 | -6.5 | 0.221 |
| 4-2560 | 4-3000 | 0.466 | 54.7 | -2.2 | -8.75 | 1.177 | 110.5 | 0.516 | 1.700 | 296.7 | 538.4 | 0.823 | --- | -3.15 | 0.434 | 91.7 | 253.6 | -6.4 | 0.215 |
| 4-2560 | 4-3020 | 0.474 | 55.6 | -2.2 | -9.04 | 1.176 | 111.0 | 0.518 | 1.693 | 295.4 | 542.0 | 0.816 | 2.570 | -3.02 | 0.434 | 87.9 | 249.7 | -6.1 | 0.214 |
| 4-2560 | 4-3040 | 0.486 | 56.5 | -2.0 | -9.32 | 1.176 | 111.6 | 0.524 | 1.691 | 293.7 | 545.3 | 0.805 | 2.576 | -2.92 | 0.434 | 84.2 | 246.3 | -5.8 | 0.219 |
| 4-2560 | 4-3060 | 0.500 | 57.6 | -1.6 | -9.58 | 1.176 | 112.4 | 0.532 | 1.692 | 291.8 | 548.4 | 0.792 | 2.591 | -2.85 | 0.436 | 80.7 | 243.9 | -5.4 | 0.228 |
| 4-2560 | 4-3080 | 0.517 | 58.7 | -1.0 | -9.83 | 1.176 | 113.4 | 0.542 | 1.695 | 289.5 | 551.1 | 0.776 | 2.615 | -2.80 | 0.438 | 77.4 | 242.3 | -5.0 | 0.240 |
| 4-2560 | 4-3100 | 0.538 | 60.0 | -0.2 | -10.08 | 1.177 | 114.6 | 0.555 | 1.701 | 287.0 | 553.5 | 0.757 | 2.646 | -2.78 | 0.441 | 74.3 | 241.8 | -4.6 | 0.255 |
| 4-2560 | 4-3120 | 0.561 | 61.3 | 0.7 | -10.32 | 1.178 | 115.9 | 0.570 | 1.709 | 284.1 | 555.6 | 0.735 | 2.684 | -2.77 | 0.444 | 71.2 | 242.0 | -4.3 | 0.273 |
| 4-2560 | 4-3140 | 0.587 | 62.7 | 1.7 | -10.56 | 1.180 | 117.4 | 0.587 | 1.719 | 280.9 | 557.5 | 0.710 | 2.728 | -2.79 | 0.447 | 68.2 | 243.1 | -4.0 | 0.292 |
| 4-2560 | 4-3160 | 0.617 | 64.2 | 2.8 | -10.81 | 1.181 | 119.1 | 0.606 | 1.730 | 277.5 | 559.0 | 0.681 | 2.779 | -2.83 | 0.450 | 65.2 | 244.8 | -3.7 | 0.313 |
| 4-2560 | 4-3180 | 0.650 | 65.9 | 3.9 | -11.06 | 1.183 | 121.0 | 0.628 | 1.742 | 273.7 | 560.2 | 0.648 | 2.835 | -2.89 | 0.452 | 62.1 | 247.0 | -3.4 | 0.336 |
| 4-2560 | 4-3200 | 0.687 | 67.6 | 5.2 | -11.33 | 1.185 | 123.2 | 0.651 | 1.755 | 269.7 | 561.1 | 0.612 | 2.898 | -2.98 | 0.455 | 59.1 | 249.8 | -3.2 | 0.359 |
| 4-2560 | 4-3220 | 0.727 | 69.4 | 6.4 | -11.62 | 1.187 | 125.5 | 0.677 | 1.769 | 265.4 | 561.8 | 0.572 | 2.966 | -3.09 | 0.458 | 56.0 | 253.0 | -3.1 | 0.384 |
| 4-2560 | 4-3240 | 0.771 | 71.3 | 7.7 | -11.92 | 1.189 | 128.1 | 0.704 | 1.784 | 260.8 | 562.0 | 0.528 | 3.040 | -3.24 | 0.460 | 52.7 | 256.5 | -2.9 | 0.411 |
| 4-2560 | 4-3260 | 0.819 | 73.4 | 9.0 | -12.26 | 1.191 | 130.9 | 0.733 | 1.800 | 255.9 | 562.0 | 0.481 | 3.119 | -3.43 | 0.462 | 49.4 | 260.4 | -2.7 | 0.438 |
| 4-2560 | 4-3280 | 0.871 | 75.6 | 10.2 | -12.65 | 1.193 | 133.9 | 0.763 | 1.816 | 250.8 | 561.7 | 0.430 | 3.202 | -3.67 | 0.465 | 45.9 | 264.5 | -2.6 | 0.467 |
| 4-2560 | 4-3300 | 0.927 | 77.9 | 11.5 | -13.08 | 1.195 | 137.2 | 0.794 | 1.834 | 245.3 | 561.0 | 0.377 | 3.290 | -3.97 | 0.467 | 42.3 | 269.0 | -2.5 | 0.497 |
| 4-2560 | 4-3320 | 0.986 | 80.3 | 12.7 | -13.60 | 1.197 | 140.7 | 0.826 | 1.852 | 239.6 | 560.0 | 0.323 | 3.381 | -4.35 | 0.469 | 38.5 | 273.6 | -2.4 | 0.528 |
| 4-2560 | 4-3340 | 1.049 | 82.8 | 13.9 | -14.22 | 1.200 | 144.5 | 0.857 | 1.871 | 233.6 | 558.6 | 0.268 | 3.475 | -4.85 | 0.471 | 34.5 | 278.5 | -2.3 | 0.560 |
| 4-2560 | 4-3360 | 1.115 | 85.5 | 15.0 | -14.99 | 1.202 | 148.6 | 0.887 | 1.892 | 227.3 | 557.0 | 0.214 | 3.569 | -5.50 | 0.473 | 30.4 | 283.7 | -2.2 | 0.592 |
| 4-2560 | 4-3380 | 1.184 | 88.3 | 16.1 | -16.01 | 1.205 | 152.8 | 0.915 | 1.913 | 220.8 | 555.1 | 0.163 | 3.663 | -6.40 | 0.474 | 26.1 | 288.9 | -2.1 | 0.625 |
| 4-2570 | 4-2810 | 0.594 | 55.5 | 15.2 | -2.21 | 1.297 | 115.3 | 0.768 | 3.454 | 300.8 | 488.0 | 0.800 | --- | -8.41 | 0.675 | 139.0 | 271.6 | -6.4 | 0.585 |
| 4-2570 | 4-2830 | 0.550 | 57.0 | 8.0 | -5.51 | 1.265 | 113.4 | 0.697 | 2.701 | 301.8 | 493.5 | 0.818 | --- | -5.15 | 0.616 | 134.2 | 273.1 | -4.5 | 0.507 |
| 4-2570 | 4-2850 | 0.515 | 57.7 | 3.9 | -6.99 | 1.241 | 111.8 | 0.642 | 2.327 | 302.8 | 499.0 | 0.833 | --- | -3.71 | 0.569 | 129.3 | 274.0 | -3.7 | 0.442 |
| 4-2570 | 4-2870 | 0.488 | 58.1 | 1.1 | -7.84 | 1.224 | 110.6 | 0.600 | 2.110 | 303.6 | 504.5 | 0.845 | --- | -2.91 | 0.532 | 124.2 | 274.3 | -3.3 | 0.387 |
| 4-2570 | 4-2890 | 0.467 | 58.4 | -1.1 | -8.39 | 1.210 | 109.6 | 0.567 | 1.973 | 304.3 | 509.9 | 0.854 | --- | -2.40 | 0.504 | 119.2 | 274.0 | -3.1 | 0.341 |
| 4-2570 | 4-2910 | 0.452 | 58.7 | -2.7 | -8.78 | 1.200 | 108.8 | 0.542 | 1.883 | 304.7 | 515.1 | 0.861 | --- | -2.06 | 0.483 | 114.2 | 273.0 | -3.0 | 0.302 |
| 4-2570 | 4-2930 | 0.442 | 59.0 | -4.0 | -9.08 | 1.192 | 108.3 | 0.524 | 1.821 | 305.0 | 520.2 | 0.866 | --- | -1.81 | 0.467 | 109.4 | 271.2 | -2.9 | 0.270 |
| 4-2570 | 4-2950 | 0.436 | 59.4 | -4.9 | -9.32 | 1.187 | 108.0 | 0.512 | 1.778 | 305.0 | 525.0 | 0.868 | --- | -1.62 | 0.456 | 104.7 | 268.6 | -2.9 | 0.245 |
| 4-2570 | 4-2970 | 0.433 | 59.8 | -5.5 | -9.51 | 1.183 | 107.9 | 0.504 | 1.749 | 304.6 | 529.5 | 0.868 | --- | -1.47 | 0.449 | 100.3 | 265.2 | -2.9 | 0.226 |
| 4-2570 | 4-2990 | 0.434 | 60.4 | -5.7 | -9.68 | 1.180 | 107.9 | 0.499 | 1.730 | 304.0 | 533.8 | 0.866 | --- | -1.36 | 0.444 | 96.1 | 261.2 | -2.8 | 0.213 |
| 4-2570 | 4-3010 | 0.437 | 61.0 | -5.6 | -9.82 | 1.178 | 108.2 | 0.498 | 1.717 | 303.0 | 537.8 | 0.861 | --- | -1.27 | 0.442 | 92.2 | 257.0 | -2.7 | 0.207 |
| 4-2570 | 4-3030 | 0.444 | 61.8 | -5.3 | -9.95 | 1.177 | 108.6 | 0.500 | 1.711 | 301.8 | 541.4 | 0.855 | 2.567 | -1.20 | 0.441 | 88.6 | 253.1 | -2.6 | 0.205 |
| 4-2570 | 4-3050 | 0.453 | 62.6 | -4.8 | -10.06 | 1.177 | 109.2 | 0.505 | 1.708 | 300.2 | 544.8 | 0.845 | 2.571 | -1.15 | 0.442 | 85.1 | 249.7 | -2.4 | 0.209 |
| 4-2570 | 4-3070 | 0.465 | 63.6 | -4.0 | -10.17 | 1.177 | 110.0 | 0.512 | 1.709 | 298.3 | 547.9 | 0.834 | 2.585 | -1.11 | 0.443 | 81.9 | 247.1 | -2.2 | 0.217 |
| 4-2570 | 4-3090 | 0.480 | 64.7 | -3.1 | -10.27 | 1.178 | 110.9 | 0.521 | 1.713 | 296.1 | 550.7 | 0.820 | 2.606 | -1.08 | 0.445 | 78.8 | 245.5 | -2.1 | 0.228 |
| 4-2570 | 4-3110 | 0.497 | 65.9 | -2.0 | -10.37 | 1.179 | 111.9 | 0.533 | 1.719 | 293.6 | 553.2 | 0.803 | 2.635 | -1.06 | 0.447 | 75.8 | 244.8 | -1.9 | 0.242 |
| 4-2570 | 4-3130 | 0.517 | 67.2 | -0.9 | -10.46 | 1.180 | 113.2 | 0.546 | 1.727 | 290.8 | 555.4 | 0.784 | 2.670 | -1.04 | 0.450 | 72.9 | 244.9 | -1.7 | 0.258 |
| 4-2570 | 4-3150 | 0.540 | 68.6 | 0.4 | -10.55 | 1.181 | 114.5 | 0.562 | 1.736 | 287.8 | 557.4 | 0.761 | 2.711 | -1.04 | 0.453 | 70.1 | 245.8 | -1.6 | 0.276 |
| 4-2570 | 4-3170 | 0.566 | 70.1 | 1.7 | -10.64 | 1.183 | 116.1 | 0.579 | 1.747 | 284.4 | 559.0 | 0.735 | 2.758 | -1.04 | 0.455 | 67.4 | 247.4 | -1.5 | 0.295 |
| 4-2570 | 4-3190 | 0.595 | 71.7 | 3.1 | -10.73 | 1.184 | 117.8 | 0.598 | 1.759 | 280.9 | 560.4 | 0.706 | 2.811 | -1.05 | 0.458 | 64.6 | 249.5 | -1.4 | 0.315 |
| 4-2570 | 4-3210 | 0.627 | 73.3 | 4.5 | -10.82 | 1.186 | 119.8 | 0.620 | 1.771 | 277.0 | 561.5 | 0.674 | 2.869 | -1.07 | 0.460 | 61.8 | 252.1 | -1.3 | 0.337 |
| 4-2570 | 4-3230 | 0.663 | 75.1 | 5.9 | -10.92 | 1.188 | 121.9 | 0.643 | 1.785 | 272.9 | 562.3 | 0.638 | 2.932 | -1.10 | 0.462 | 59.0 | 255.1 | -1.2 | 0.360 |
| 4-2570 | 4-3250 | 0.702 | 77.0 | 7.3 | -11.03 | 1.190 | 124.2 | 0.668 | 1.800 | 268.6 | 562.8 | 0.598 | 3.001 | -1.14 | 0.464 | 56.1 | 258.5 | -1.1 | 0.383 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2570 | 4-3270 | 0.744 | 79.0 | 8.7 | -11.14 | 1.192 | 126.7 | 0.694 | 1.815 | 263.9 | 563.0 | 0.555 | 3.075 | -1.19 | 0.466 | 53.1 | 262.1 | -1.1 | 0.408 |
| 4-2570 | 4-3290 | 0.791 | 81.1 | 10.0 | -11.26 | 1.194 | 129.4 | 0.722 | 1.831 | 259.1 | 563.0 | 0.509 | 3.154 | -1.25 | 0.468 | 49.9 | 266.1 | -1.0 | 0.434 |
| 4-2570 | 4-3310 | 0.840 | 83.4 | 11.3 | -11.39 | 1.196 | 132.4 | 0.752 | 1.848 | 253.9 | 562.6 | 0.459 | 3.238 | -1.33 | 0.469 | 46.6 | 270.3 | -1.0 | 0.461 |
| 4-2570 | 4-3330 | 0.894 | 85.7 | 12.6 | -11.54 | 1.198 | 135.5 | 0.782 | 1.866 | 248.6 | 561.9 | 0.407 | 3.325 | -1.43 | 0.471 | 43.2 | 274.7 | -0.9 | 0.489 |
| 4-2570 | 4-3350 | 0.951 | 88.2 | 13.7 | -11.71 | 1.200 | 139.0 | 0.813 | 1.884 | 242.9 | 561.0 | 0.353 | 3.416 | -1.56 | 0.472 | 39.6 | 279.4 | -0.9 | 0.518 |
| 4-2570 | 4-3370 | 1.011 | 90.7 | 14.9 | -11.92 | 1.202 | 142.6 | 0.843 | 1.903 | 237.0 | 559.7 | 0.298 | 3.509 | -1.71 | 0.474 | 35.9 | 284.2 | -0.9 | 0.547 |
| 4-2570 | 4-3390 | 1.075 | 93.4 | 15.9 | -12.17 | 1.205 | 146.5 | 0.873 | 1.923 | 230.9 | 558.2 | 0.244 | 3.603 | -1.92 | 0.475 | 32.0 | 289.3 | -0.8 | 0.578 |
| 4-2570 | 4-3410 | 1.141 | 96.2 | 16.8 | -12.49 | 1.207 | 150.5 | 0.902 | 1.944 | 224.6 | 556.3 | 0.191 | 3.697 | -2.20 | 0.477 | 28.0 | 294.5 | -0.8 | 0.608 |
| 4-2570 | 4-3430 | 1.208 | 99.1 | 17.7 | -12.92 | 1.209 | 154.8 | 0.928 | 1.966 | 218.1 | 554.3 | 0.142 | 3.789 | -2.58 | 0.478 | 23.8 | 299.8 | -0.8 | 0.639 |
| 4-2580 | 4-2800 | 0.612 | 61.3 | 17.3 | -1.75 | 1.336 | 114.8 | 0.850 | 5.467 | 305.5 | 480.9 | 0.820 | --- | -8.86 | 0.749 | 142.3 | 272.9 | -6.1 | 0.661 |
| 4-2580 | 4-2840 | 0.618 | 73.1 | -17.6 | -19.57 | 1.264 | 110.9 | 0.683 | 2.702 | 307.6 | 492.2 | 0.855 | --- | 9.02 | 0.618 | 133.1 | 275.5 | 8.1 | 0.501 |
| 4-2580 | 4-2860 | 0.536 | 69.2 | -12.8 | -15.02 | 1.241 | 109.4 | 0.628 | 2.335 | 308.7 | 497.9 | 0.869 | --- | 4.49 | 0.572 | 128.2 | 276.7 | 4.7 | 0.433 |
| 4-2580 | 4-2880 | 0.494 | 67.9 | -11.8 | -13.49 | 1.224 | 108.2 | 0.585 | 2.122 | 309.6 | 503.5 | 0.880 | --- | 2.99 | 0.536 | 123.3 | 277.1 | 3.5 | 0.379 |
| 4-2580 | 4-2900 | 0.466 | 67.1 | -11.8 | -12.72 | 1.210 | 107.2 | 0.553 | 1.986 | 310.4 | 509.0 | 0.889 | --- | 2.25 | 0.509 | 118.4 | 276.8 | 3.0 | 0.333 |
| 4-2580 | 4-2920 | 0.446 | 66.7 | -11.9 | -12.24 | 1.201 | 106.5 | 0.528 | 1.897 | 311.0 | 514.4 | 0.895 | --- | 1.81 | 0.489 | 113.6 | 275.8 | 2.7 | 0.295 |
| 4-2580 | 4-2940 | 0.432 | 66.4 | -12.1 | -11.92 | 1.193 | 106.0 | 0.510 | 1.835 | 311.3 | 519.5 | 0.899 | --- | 1.52 | 0.474 | 108.9 | 274.0 | 2.6 | 0.264 |
| 4-2580 | 4-2960 | 0.423 | 66.3 | -12.0 | -11.69 | 1.188 | 105.7 | 0.497 | 1.793 | 311.3 | 524.4 | 0.901 | --- | 1.32 | 0.463 | 104.4 | 271.4 | 2.5 | 0.239 |
| 4-2580 | 4-2980 | 0.417 | 66.4 | -11.8 | -11.50 | 1.184 | 105.6 | 0.489 | 1.764 | 311.0 | 529.0 | 0.901 | --- | 1.17 | 0.456 | 100.2 | 268.0 | 2.4 | 0.220 |
| 4-2580 | 4-3000 | 0.415 | 66.7 | -11.4 | -11.36 | 1.181 | 105.7 | 0.485 | 1.745 | 310.4 | 533.3 | 0.899 | --- | 1.05 | 0.451 | 96.2 | 264.1 | 2.3 | 0.207 |
| 4-2580 | 4-3020 | 0.416 | 67.1 | -10.7 | -11.23 | 1.180 | 105.9 | 0.483 | 1.733 | 309.5 | 537.3 | 0.896 | --- | 0.97 | 0.449 | 92.5 | 260.0 | 2.2 | 0.200 |
| 4-2580 | 4-3040 | 0.420 | 67.7 | -9.8 | -11.13 | 1.179 | 106.3 | 0.485 | 1.727 | 308.3 | 541.0 | 0.890 | 2.564 | 0.90 | 0.448 | 89.0 | 256.0 | 2.0 | 0.199 |
| 4-2580 | 4-3060 | 0.427 | 68.4 | -8.8 | -11.04 | 1.179 | 106.9 | 0.489 | 1.725 | 306.7 | 544.4 | 0.882 | 2.568 | 0.85 | 0.449 | 85.8 | 252.6 | 1.9 | 0.202 |
| 4-2580 | 4-3080 | 0.436 | 69.3 | -7.6 | -10.95 | 1.179 | 107.6 | 0.495 | 1.726 | 304.8 | 547.6 | 0.872 | 2.580 | 0.81 | 0.450 | 82.7 | 250.1 | 1.7 | 0.209 |
| 4-2580 | 4-3100 | 0.448 | 70.3 | -6.2 | -10.88 | 1.179 | 108.4 | 0.503 | 1.730 | 302.7 | 550.4 | 0.859 | 2.600 | 0.78 | 0.452 | 79.8 | 248.4 | 1.6 | 0.219 |
| 4-2580 | 4-3120 | 0.462 | 71.5 | -4.7 | -10.81 | 1.180 | 109.4 | 0.513 | 1.736 | 300.2 | 553.0 | 0.845 | 2.627 | 0.75 | 0.454 | 77.0 | 247.6 | 1.4 | 0.232 |
| 4-2580 | 4-3140 | 0.479 | 72.8 | -3.2 | -10.74 | 1.181 | 110.6 | 0.525 | 1.744 | 297.5 | 555.2 | 0.828 | 2.660 | 0.73 | 0.456 | 74.4 | 247.7 | 1.3 | 0.247 |
| 4-2580 | 4-3160 | 0.498 | 74.1 | -1.6 | -10.67 | 1.182 | 111.8 | 0.539 | 1.753 | 294.5 | 557.2 | 0.808 | 2.698 | 0.72 | 0.458 | 71.8 | 248.5 | 1.2 | 0.263 |
| 4-2580 | 4-3180 | 0.520 | 75.6 | 0.0 | -10.61 | 1.184 | 113.3 | 0.555 | 1.764 | 291.3 | 559.0 | 0.785 | 2.742 | 0.72 | 0.460 | 69.2 | 250.0 | 1.1 | 0.280 |
| 4-2580 | 4-3200 | 0.546 | 77.2 | 1.7 | -10.55 | 1.186 | 114.9 | 0.572 | 1.775 | 287.9 | 560.5 | 0.760 | 2.791 | 0.72 | 0.462 | 66.7 | 252.0 | 1.0 | 0.299 |
| 4-2580 | 4-3220 | 0.574 | 78.9 | 3.3 | -10.49 | 1.187 | 116.6 | 0.591 | 1.788 | 284.2 | 561.7 | 0.731 | 2.846 | 0.72 | 0.464 | 64.1 | 254.5 | 0.9 | 0.318 |
| 4-2580 | 4-3240 | 0.605 | 80.7 | 4.9 | -10.42 | 1.189 | 118.5 | 0.612 | 1.802 | 280.2 | 562.7 | 0.699 | 2.905 | 0.73 | 0.466 | 61.5 | 257.3 | 0.9 | 0.339 |
| 4-2580 | 4-3260 | 0.639 | 82.6 | 6.5 | -10.36 | 1.191 | 120.6 | 0.635 | 1.816 | 276.1 | 563.4 | 0.663 | 2.969 | 0.75 | 0.468 | 58.9 | 260.5 | 0.8 | 0.360 |
| 4-2580 | 4-3280 | 0.677 | 84.6 | 8.0 | -10.29 | 1.193 | 122.9 | 0.659 | 1.831 | 271.7 | 563.8 | 0.624 | 3.038 | 0.77 | 0.469 | 56.2 | 264.1 | 0.8 | 0.383 |
| 4-2580 | 4-3300 | 0.718 | 86.7 | 9.5 | -10.22 | 1.195 | 125.3 | 0.685 | 1.847 | 267.1 | 564.0 | 0.582 | 3.112 | 0.80 | 0.471 | 53.4 | 267.8 | 0.7 | 0.406 |
| 4-2580 | 4-3320 | 0.762 | 88.9 | 10.8 | -10.14 | 1.197 | 128.0 | 0.712 | 1.863 | 262.2 | 563.9 | 0.536 | 3.191 | 0.84 | 0.472 | 50.4 | 271.8 | 0.7 | 0.430 |
| 4-2580 | 4-3340 | 0.810 | 91.2 | 12.2 | -10.06 | 1.199 | 130.8 | 0.741 | 1.881 | 257.2 | 563.5 | 0.488 | 3.273 | 0.89 | 0.473 | 47.4 | 276.1 | 0.7 | 0.455 |
| 4-2580 | 4-3360 | 0.861 | 93.6 | 13.4 | -9.96 | 1.201 | 133.9 | 0.770 | 1.898 | 251.9 | 562.9 | 0.437 | 3.360 | 0.95 | 0.475 | 44.2 | 280.5 | 0.7 | 0.481 |
| 4-2580 | 4-3380 | 0.916 | 96.1 | 14.5 | -9.85 | 1.203 | 137.2 | 0.800 | 1.917 | 246.4 | 562.0 | 0.384 | 3.449 | 1.02 | 0.476 | 40.8 | 285.1 | 0.6 | 0.508 |
| 4-2580 | 4-3400 | 0.973 | 98.7 | 15.6 | -9.72 | 1.205 | 140.6 | 0.830 | 1.936 | 240.7 | 560.8 | 0.330 | 3.542 | 1.12 | 0.477 | 37.3 | 289.9 | 0.6 | 0.535 |
| 4-2580 | 4-3420 | 1.034 | 101.4 | 16.5 | -9.57 | 1.207 | 144.3 | 0.859 | 1.955 | 234.7 | 559.3 | 0.275 | 3.635 | 1.24 | 0.478 | 33.6 | 294.9 | 0.6 | 0.563 |
| 4-2580 | 4-3440 | 1.097 | 104.1 | 17.3 | -9.39 | 1.209 | 148.2 | 0.887 | 1.976 | 228.6 | 557.7 | 0.222 | 3.729 | 1.40 | 0.479 | 29.8 | 300.0 | 0.6 | 0.592 |
| 4-2580 | 4-3460 | 1.162 | 107.0 | 18.1 | -9.15 | 1.212 | 152.2 | 0.914 | 1.997 | 222.3 | 555.7 | 0.172 | 3.822 | 1.61 | 0.480 | 25.9 | 305.2 | 0.5 | 0.621 |
| 4-2580 | 4-3480 | 1.229 | 109.9 | 18.7 | -8.82 | 1.214 | 156.4 | 0.938 | 2.019 | 215.8 | 553.6 | 0.125 | 3.912 | 1.90 | 0.481 | 21.9 | 310.5 | 0.5 | 0.650 |
| 4-2590 | 4-2790 | 0.640 | 67.1 | 17.8 | -1.97 | 1.387 | 114.4 | 0.96322 | -513 | 310.3 | 473.8 | 0.840 | --- | -8.70 | 0.835 | 145.2 | 273.9 | -5.5 | 0.748 |
| 4-2590 | 4-2810 | 0.561 | 65.0 | 24.4 | 1.32 | 1.333 | 112.0 | 0.836 | 5.237 | 311.5 | 479.5 | 0.860 | --- | -11.90 | 0.745 | 141.0 | 275.2 | -8.5 | 0.649 |
| 4-2590 | 4-2830 | 0.524 | 61.7 | 41.3 | 8.48 | 1.293 | 109.8 | 0.740 | 3.378 | 312.8 | 485.3 | 0.878 | --- | -18.95 | 0.673 | 136.5 | 275.1 | -15.0 | 0.581 |
| 4-2590 | 4-2850 | 0.771 | 96.2 | 82.9 | 33.56 | 1.263 | 107.9 | 0.666 | 2.684 | 314.6 | 491.1 | 0.896 | --- | -43.94 | 0.617 | 131.8 | 265.8 | -30.7 | 0.626 |
| 4-2590 | 4-2870 | 1.151 | 119.5 | -44.1 | -59.50 | 1.240 | 107.2 | 0.615 | 2.331 | 313.9 | 497.2 | 0.898 | --- | 49.22 | 0.573 | 127.3 | 262.9 | 34.2 | 0.614 |
| 4-2590 | 4-2890 | 0.679 | 88.8 | -36.7 | -29.99 | 1.223 | 105.8 | 0.571 | 2.124 | 315.6 | 502.9 | 0.911 | --- | 19.81 | 0.539 | 122.3 | 276.1 | 22.0 | 0.412 |
| 4-2590 | 4-2910 | 0.550 | 80.6 | -30.3 | -22.11 | 1.211 | 104.9 | 0.539 | 1.993 | 316.7 | 508.5 | 0.920 | --- | 12.04 | 0.513 | 117.5 | 277.9 | 16.0 | 0.343 |
| 4-2590 | 4-2930 | 0.490 | 77.0 | -26.6 | -18.60 | 1.201 | 104.2 | 0.514 | 1.906 | 317.4 | 513.9 | 0.925 | --- | 8.63 | 0.493 | 112.8 | 277.5 | 13.2 | 0.298 |
| 4-2590 | 4-2950 | 0.456 | 75.0 | -24.3 | -16.61 | 1.194 | 103.7 | 0.497 | 1.846 | 317.8 | 519.1 | 0.929 | --- | 6.75 | 0.479 | 108.3 | 276.0 | 11.7 | 0.264 |
| 4-2590 | 4-2970 | 0.434 | 73.9 | -22.5 | -15.32 | 1.189 | 103.4 | 0.484 | 1.805 | 317.9 | 524.1 | 0.931 | --- | 5.56 | 0.468 | 104.0 | 273.5 | 10.7 | 0.238 |
| 4-2590 | 4-2990 | 0.420 | 73.2 | -20.9 | -14.40 | 1.185 | 103.4 | 0.476 | 1.777 | 317.6 | 528.7 | 0.931 | --- | 4.75 | 0.462 | 99.9 | 270.3 | 9.9 | 0.219 |
| 4-2590 | 4-3010 | 0.411 | 72.9 | -19.3 | -13.70 | 1.183 | 103.4 | 0.472 | 1.759 | 317.1 | 533.1 | 0.929 | --- | 4.17 | 0.457 | 96.1 | 266.4 | 9.3 | 0.205 |
| 4-2590 | 4-3030 | 0.407 | 73.0 | -17.8 | -13.15 | 1.181 | 103.7 | 0.470 | 1.747 | 316.1 | 537.1 | 0.926 | --- | 3.74 | 0.455 | 92.6 | 262.4 | 8.6 | 0.198 |
| 4-2590 | 4-3050 | 0.406 | 73.3 | -16.1 | -12.70 | 1.180 | 104.1 | 0.471 | 1.741 | 314.9 | 540.8 | 0.921 | 2.562 | 3.42 | 0.454 | 89.3 | 258.5 | 7.9 | 0.196 |
| 4-2590 | 4-3070 | 0.408 | 73.8 | -14.3 | -12.32 | 1.180 | 104.6 | 0.475 | 1.740 | 313.3 | 544.2 | 0.914 | 2.565 | 3.16 | 0.455 | 86.2 | 255.2 | 7.2 | 0.198 |
| 4-2590 | 4-3090 | 0.413 | 74.6 | -12.4 | -11.99 | 1.180 | 105.3 | 0.480 | 1.741 | 311.5 | 547.4 | 0.905 | 2.577 | 2.96 | 0.456 | 83.3 | 252.7 | 6.6 | 0.204 |
| 4-2590 | 4-3110 | 0.421 | 75.5 | -10.5 | -11.69 | 1.181 | 106.1 | 0.487 | 1.745 | 309.3 | 550.2 | 0.895 | 2.596 | 2.81 | 0.457 | 80.6 | 251.0 | 5.9 | 0.214 |
| 4-2590 | 4-3130 | 0.432 | 76.6 | -8.5 | -11.42 | 1.182 | 107.0 | 0.497 | 1.752 | 306.9 | 552.8 | 0.882 | 2.621 | 2.69 | 0.459 | 78.0 | 250.3 | 5.4 | 0.225 |
| 4-2590 | 4-3150 | 0.445 | 77.9 | -6.5 | -11.18 | 1.183 | 108.1 | 0.507 | 1.760 | 304.3 | 555.1 | 0.867 | 2.653 | 2.60 | 0.461 | 75.5 | 250.3 | 4.9 | 0.238 |
| 4-2590 | 4-3170 | 0.461 | 79.3 | -4.4 | -10.94 | 1.184 | 109.3 | 0.520 | 1.769 | 301.3 | 557.2 | 0.850 | 2.689 | 2.53 | 0.463 | 73.1 | 251.1 | 4.4 | 0.253 |
| 4-2590 | 4-3190 | 0.480 | 80.8 | -2.4 | -10.72 | 1.186 | 110.6 | 0.534 | 1.780 | 298.2 | 559.0 | 0.830 | 2.730 | 2.48 | 0.465 | 70.7 | 252.5 | 4.1 | 0.269 |
| 4-2590 | 4-3210 | 0.501 | 82.4 | -0.4 | -10.51 | 1.187 | 112.1 | 0.549 | 1.792 | 294.8 | 560.5 | 0.807 | 2.777 | 2.46 | 0.467 | 68.4 | 254.5 | 3.7 | 0.286 |
| 4-2590 | 4-3230 | 0.525 | 84.2 | 1.6 | -10.30 | 1.189 | 113.7 | 0.567 | 1.805 | 291.2 | 561.8 | 0.782 | 2.828 | 2.45 | 0.469 | 66.0 | 256.9 | 3.5 | 0.304 |
| 4-2590 | 4-3250 | 0.552 | 86.0 | 3.4 | -10.09 | 1.191 | 115.4 | 0.586 | 1.818 | 287.4 | 562.9 | 0.754 | 2.883 | 2.46 | 0.470 | 63.7 | 259.6 | 3.2 | 0.322 |
| 4-2590 | 4-3270 | 0.582 | 88.0 | 5.2 | -9.88 | 1.192 | 117.3 | 0.606 | 1.833 | 283.4 | 563.8 | 0.722 | 2.943 | 2.49 | 0.472 | 61.3 | 262.7 | 3.0 | 0.341 |
| 4-2590 | 4-3290 | 0.615 | 90.0 | 6.9 | -9.66 | 1.194 | 119.4 | 0.628 | 1.848 | 279.3 | 564.4 | 0.688 | 3.008 | 2.54 | 0.473 | 58.8 | 266.1 | 2.8 | 0.361 |
| 4-2590 | 4-3310 | 0.651 | 92.1 | 8.6 | -9.44 | 1.196 | 121.6 | 0.651 | 1.863 | 274.9 | 564.7 | 0.650 | 3.077 | 2.61 | 0.474 | 56.3 | 269.7 | 2.7 | 0.382 |
| 4-2590 | 4-3330 | 0.691 | 94.3 | 10.1 | -9.20 | 1.198 | 124.0 | 0.676 | 1.879 | 270.3 | 564.9 | 0.608 | 3.150 | 2.70 | 0.475 | 53.7 | 273.6 | 2.6 | 0.404 |
| 4-2590 | 4-3350 | 0.733 | 96.6 | 11.5 | -8.95 | 1.200 | 126.5 | 0.702 | 1.896 | 265.5 | 564.7 | 0.564 | 3.228 | 2.81 | 0.476 | 50.9 | 277.7 | 2.4 | 0.426 |
| 4-2590 | 4-3370 | 0.779 | 99.0 | 12.8 | -8.68 | 1.202 | 129.3 | 0.730 | 1.913 | 260.5 | 564.4 | 0.517 | 3.309 | 2.95 | 0.477 | 48.1 | 281.9 | 2.3 | 0.449 |
| 4-2590 | 4-3390 | 0.828 | 101.4 | 14.0 | -8.38 | 1.204 | 132.2 | 0.758 | 1.931 | 255.4 | 563.8 | 0.468 | 3.394 | 3.13 | 0.478 | 45.1 | 286.3 | 2.2 | 0.473 |
| 4-2590 | 4-3410 | 0.880 | 104.0 | 15.0 | -8.04 | 1.206 | 135.3 | 0.787 | 1.949 | 250.0 | 562.9 | 0.416 | 3.483 | 3.35 | 0.478 | 41.9 | 290.9 | 2.2 | 0.498 |
| 4-2590 | 4-3430 | 0.935 | 106.6 | 16.0 | -7.65 | 1.208 | 138.6 | 0.816 | 1.968 | 244.4 | 561.9 | 0.363 | 3.573 | 3.62 | 0.479 | 38.7 | 295.6 | 2.1 | 0.523 |
| 4-2590 | 4-3450 | 0.993 | 109.3 | 16.8 | -7.20 | 1.210 | 142.1 | 0.844 | 1.988 | 238.7 | 560.5 | 0.309 | 3.666 | 3.97 | 0.480 | 35.3 | 300.4 | 2.0 | 0.549 |
| 4-2590 | 4-3470 | 1.053 | 112.1 | 17.5 | -6.66 | 1.212 | 145.8 | 0.872 | 2.008 | 232.8 | 559.0 | 0.257 | 3.759 | 4.41 | 0.481 | 31.7 | 305.4 | 1.9 | 0.576 |
| 4-2590 | 4-3490 | 1.116 | 114.9 | 18.1 | -5.98 | 1.214 | 149.6 | 0.899 | 2.028 | 226.7 | 557.2 | 0.205 | 3.852 | 4.98 | 0.482 | 28.0 | 310.5 | 1.9 | 0.603 |
| 4-2600 | 4-2800 | 0.584 | 70.9 | 21.5 | -0.35 | 1.380 | 111.2 | 0.94616 | .197 | 316.3 | 472.6 | 0.880 | --- | -10.28 | 0.826 | 143.9 | 276.4 | -6.8 | 0.729 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2600 | 4-2820 | 0.511 | 68.9 | 27.3 | 2.10 | 1.328 | 108.9 | 0.818 | 4.930 | 317.8 | 478.5 | 0.898 | --- | -12.57 | 0.738 | 139.7 | 277.6 | -9.4 | 0.633 |
| 4-2600 | 4-2840 | 0.465 | 66.2 | 37.9 | 6.00 | 1.290 | 106.9 | 0.722 | 3.289 | 319.3 | 484.5 | 0.914 | --- | -16.30 | 0.669 | 135.2 | 278.2 | -13.7 | 0.559 |
| 4-2600 | 4-2860 | 0.476 | 62.7 | 57.4 | 13.18 | 1.261 | 105.2 | 0.650 | 2.648 | 321.0 | 490.5 | 0.927 | --- | -23.31 | 0.615 | 130.5 | 276.9 | -21.0 | 0.515 |
| 4-2600 | 4-2880 | 0.671 | 107.9 | 87.0 | 29.98 | 1.239 | 103.6 | 0.594 | 2.315 | 323.0 | 496.5 | 0.940 | --- | -39.94 | 0.572 | 125.7 | 269.4 | -32.9 | 0.549 |
| 4-2600 | 4-2920 | 0.997 | 119.1 | -50.5 | -51.71 | 1.211 | 102.8 | 0.527 | 1.993 | 322.2 | 508.3 | 0.943 | --- | 42.09 | 0.514 | 116.6 | 267.1 | 38.0 | 0.501 |
| 4-2600 | 4-2940 | 0.691 | 97.1 | -45.8 | -33.26 | 1.201 | 102.0 | 0.502 | 1.910 | 323.6 | 513.9 | 0.950 | --- | 23.82 | 0.496 | 112.0 | 274.8 | 31.3 | 0.358 |
| 4-2600 | 4-2960 | 0.563 | 88.1 | -40.4 | -25.58 | 1.195 | 101.5 | 0.485 | 1.853 | 324.3 | 519.1 | 0.954 | --- | 16.32 | 0.482 | 107.5 | 275.7 | 26.2 | 0.293 |
| 4-2600 | 4-2980 | 0.496 | 83.5 | -36.2 | -21.48 | 1.190 | 101.2 | 0.473 | 1.813 | 324.5 | 524.1 | 0.956 | --- | 12.39 | 0.472 | 103.4 | 274.2 | 22.8 | 0.254 |
| 4-2600 | 4-3000 | 0.457 | 80.9 | -32.7 | -18.93 | 1.186 | 101.1 | 0.465 | 1.787 | 324.4 | 528.7 | 0.956 | --- | 10.02 | 0.466 | 99.5 | 271.5 | 20.5 | 0.229 |
| 4-2600 | 4-3020 | 0.432 | 79.5 | -29.7 | -17.17 | 1.184 | 101.2 | 0.460 | 1.770 | 323.8 | 533.1 | 0.955 | --- | 8.45 | 0.462 | 95.8 | 268.0 | 18.6 | 0.212 |
| 4-2600 | 4-3040 | 0.416 | 78.7 | -26.9 | -15.87 | 1.183 | 101.4 | 0.459 | 1.759 | 322.9 | 537.1 | 0.952 | --- | 7.35 | 0.460 | 92.5 | 264.2 | 16.9 | 0.202 |
| 4-2600 | 4-3060 | 0.406 | 78.5 | -24.1 | -14.86 | 1.182 | 101.8 | 0.460 | 1.754 | 321.7 | 540.8 | 0.948 | 2.561 | 6.54 | 0.459 | 89.3 | 260.5 | 15.3 | 0.198 |
| 4-2600 | 4-3080 | 0.401 | 78.7 | -21.5 | -14.05 | 1.182 | 102.3 | 0.463 | 1.753 | 320.1 | 544.2 | 0.942 | 2.564 | 5.93 | 0.460 | 86.4 | 257.4 | 13.7 | 0.199 |
| 4-2600 | 4-3100 | 0.400 | 79.2 | -18.8 | -13.36 | 1.182 | 103.0 | 0.468 | 1.755 | 318.3 | 547.3 | 0.935 | 2.576 | 5.46 | 0.461 | 83.7 | 255.0 | 12.3 | 0.204 |
| 4-2600 | 4-3120 | 0.403 | 80.1 | -16.1 | -12.78 | 1.183 | 103.8 | 0.474 | 1.760 | 316.1 | 550.2 | 0.925 | 2.594 | 5.09 | 0.462 | 81.1 | 253.4 | 11.0 | 0.212 |
| 4-2600 | 4-3140 | 0.409 | 81.1 | -13.4 | -12.26 | 1.184 | 104.7 | 0.482 | 1.767 | 313.7 | 552.7 | 0.915 | 2.619 | 4.81 | 0.464 | 78.7 | 252.8 | 9.9 | 0.222 |
| 4-2600 | 4-3160 | 0.417 | 82.4 | -10.8 | -11.80 | 1.185 | 105.7 | 0.492 | 1.775 | 311.1 | 555.0 | 0.902 | 2.648 | 4.59 | 0.466 | 76.3 | 252.8 | 8.9 | 0.234 |
| 4-2600 | 4-3180 | 0.429 | 83.9 | -8.2 | -11.37 | 1.186 | 106.8 | 0.503 | 1.785 | 308.2 | 557.1 | 0.887 | 2.683 | 4.42 | 0.468 | 74.1 | 253.6 | 8.1 | 0.247 |
| 4-2600 | 4-3200 | 0.444 | 85.5 | -5.6 | -10.98 | 1.188 | 108.0 | 0.516 | 1.796 | 305.1 | 558.9 | 0.870 | 2.722 | 4.29 | 0.469 | 71.9 | 255.0 | 7.3 | 0.261 |
| 4-2600 | 4-3220 | 0.461 | 87.2 | -3.2 | -10.60 | 1.189 | 109.4 | 0.530 | 1.808 | 301.8 | 560.6 | 0.850 | 2.766 | 4.20 | 0.471 | 69.7 | 256.9 | 6.7 | 0.276 |
| 4-2600 | 4-3240 | 0.481 | 89.0 | -0.8 | -10.24 | 1.191 | 110.9 | 0.545 | 1.821 | 298.3 | 561.9 | 0.828 | 2.814 | 4.15 | 0.472 | 67.6 | 259.3 | 6.2 | 0.292 |
| 4-2600 | 4-3260 | 0.504 | 91.0 | 1.4 | -9.89 | 1.193 | 112.5 | 0.562 | 1.835 | 294.6 | 563.1 | 0.803 | 2.866 | 4.12 | 0.474 | 65.4 | 262.0 | 5.8 | 0.309 |
| 4-2600 | 4-3280 | 0.530 | 93.0 | 3.5 | -9.54 | 1.194 | 114.3 | 0.581 | 1.849 | 290.7 | 564.0 | 0.775 | 2.923 | 4.13 | 0.475 | 63.3 | 265.0 | 5.4 | 0.326 |
| 4-2600 | 4-3300 | 0.559 | 95.1 | 5.5 | -9.20 | 1.196 | 116.1 | 0.600 | 1.864 | 286.7 | 564.8 | 0.745 | 2.983 | 4.16 | 0.476 | 61.1 | 268.3 | 5.0 | 0.344 |
| 4-2600 | 4-3320 | 0.591 | 97.3 | 7.3 | -8.84 | 1.198 | 118.1 | 0.622 | 1.879 | 282.5 | 565.3 | 0.711 | 3.048 | 4.23 | 0.477 | 58.8 | 271.8 | 4.8 | 0.363 |
| 4-2600 | 4-3340 | 0.625 | 99.6 | 9.0 | -8.48 | 1.200 | 120.3 | 0.644 | 1.895 | 278.1 | 565.6 | 0.675 | 3.116 | 4.32 | 0.478 | 56.4 | 275.5 | 4.5 | 0.382 |
| 4-2600 | 4-3360 | 0.663 | 101.9 | 10.5 | -8.10 | 1.202 | 122.6 | 0.668 | 1.912 | 273.6 | 565.7 | 0.635 | 3.189 | 4.45 | 0.478 | 54.0 | 279.4 | 4.3 | 0.402 |
| 4-2600 | 4-3380 | 0.704 | 104.3 | 11.9 | -7.71 | 1.204 | 125.1 | 0.693 | 1.929 | 268.9 | 565.6 | 0.592 | 3.265 | 4.61 | 0.479 | 51.4 | 283.5 | 4.1 | 0.422 |
| 4-2600 | 4-3400 | 0.748 | 106.8 | 13.2 | -7.28 | 1.206 | 127.7 | 0.719 | 1.946 | 264.0 | 565.2 | 0.547 | 3.345 | 4.82 | 0.480 | 48.8 | 287.7 | 3.9 | 0.443 |
| 4-2600 | 4-3420 | 0.795 | 109.3 | 14.3 | -6.81 | 1.207 | 130.5 | 0.746 | 1.964 | 259.0 | 564.7 | 0.499 | 3.429 | 5.08 | 0.480 | 46.0 | 292.1 | 3.8 | 0.465 |
| 4-2600 | 4-3440 | 0.844 | 111.9 | 15.3 | -6.30 | 1.209 | 133.5 | 0.773 | 1.982 | 253.8 | 563.9 | 0.449 | 3.515 | 5.39 | 0.481 | 43.1 | 296.6 | 3.6 | 0.488 |
| 4-2600 | 4-3460 | 0.897 | 114.6 | 16.1 | -5.72 | 1.211 | 136.6 | 0.801 | 2.001 | 248.4 | 562.9 | 0.398 | 3.604 | 5.78 | 0.481 | 40.0 | 301.2 | 3.5 | 0.511 |
| 4-2600 | 4-3480 | 0.952 | 117.3 | 16.9 | -5.05 | 1.213 | 139.9 | 0.829 | 2.020 | 242.8 | 561.7 | 0.346 | 3.695 | 6.27 | 0.482 | 36.9 | 306.0 | 3.4 | 0.535 |
| 4-2600 | 4-3500 | 1.010 | 120.0 | 17.4 | -4.27 | 1.215 | 143.3 | 0.856 | 2.040 | 237.2 | 560.3 | 0.293 | 3.787 | 6.88 | 0.482 | 33.6 | 310.9 | 3.3 | 0.560 |
| 4-2610 | 4-2790 | 0.617 | 75.6 | 20.7 | -0.96 | 1.441 | 110.2 | 1.097 | -9.299 | 321.4 | 465.9 | 0.900 | --- | -9.81 | 0.921 | 146.4 | 277.2 | -6.0 | 0.824 |
| 4-2610 | 4-2810 | 0.527 | 74.0 | 24.0 | 0.53 | 1.373 | 107.8 | 0.923 | 11.928 | 322.8 | 471.8 | 0.917 | --- | -11.06 | 0.813 | 142.5 | 278.7 | -7.7 | 0.708 |
| 4-2610 | 4-2830 | 0.460 | 71.8 | 29.3 | 2.49 | 1.323 | 105.7 | 0.796 | 4.575 | 324.5 | 477.9 | 0.933 | --- | -12.77 | 0.729 | 138.3 | 280.0 | -10.1 | 0.614 |
| 4-2610 | 4-2850 | 0.416 | 68.8 | 38.0 | 5.20 | 1.286 | 103.8 | 0.702 | 3.173 | 326.2 | 484.1 | 0.946 | --- | -15.25 | 0.662 | 133.8 | 280.6 | -13.5 | 0.539 |
| 4-2610 | 4-2870 | 0.402 | 64.8 | 51.3 | 9.25 | 1.258 | 102.3 | 0.631 | 2.594 | 328.0 | 490.4 | 0.957 | --- | -19.06 | 0.610 | 129.1 | 280.3 | -18.6 | 0.485 |
| 4-2610 | 4-2890 | 0.446 | 58.7 | 70.2 | 15.95 | 1.237 | 100.9 | 0.578 | 2.288 | 329.9 | 496.6 | 0.966 | --- | -25.53 | 0.569 | 124.4 | 278.1 | -26.1 | 0.460 |
| 4-2610 | 4-2910 | 0.620 | 247.0 | 86.5 | 28.85 | 1.222 | 99.7 | 0.537 | 2.105 | 332.0 | 502.8 | 0.975 | --- | -38.19 | 0.538 | 119.6 | 271.2 | -35.8 | 0.494 |
| 4-2610 | 4-2970 | 0.900 | 118.5 | -56.0 | -46.86 | 1.195 | 99.5 | 0.475 | 1.855 | 330.2 | 519.4 | 0.973 | --- | 38.25 | 0.484 | 106.8 | 268.1 | 41.6 | 0.432 |
| 4-2610 | 4-2990 | 0.677 | 100.6 | -51.6 | -33.65 | 1.191 | 99.1 | 0.463 | 1.818 | 331.0 | 524.4 | 0.976 | --- | 25.28 | 0.475 | 102.7 | 271.6 | 37.6 | 0.324 |
| 4-2610 | 4-3010 | 0.563 | 92.0 | -46.6 | -26.82 | 1.188 | 98.9 | 0.455 | 1.794 | 331.1 | 529.1 | 0.977 | --- | 18.70 | 0.469 | 98.9 | 271.0 | 33.5 | 0.269 |
| 4-2610 | 4-3030 | 0.497 | 87.4 | -42.0 | -22.71 | 1.185 | 99.0 | 0.451 | 1.778 | 330.7 | 533.4 | 0.976 | --- | 14.84 | 0.466 | 95.4 | 268.5 | 29.9 | 0.238 |
| 4-2610 | 4-3050 | 0.455 | 84.9 | -37.9 | -19.96 | 1.184 | 99.2 | 0.450 | 1.769 | 329.8 | 537.4 | 0.974 | --- | 12.35 | 0.464 | 92.2 | 265.3 | 26.8 | 0.220 |
| 4-2610 | 4-3070 | 0.428 | 83.6 | -34.0 | -17.97 | 1.184 | 99.6 | 0.450 | 1.765 | 328.6 | 541.0 | 0.970 | 2.559 | 10.63 | 0.464 | 89.2 | 262.0 | 23.9 | 0.211 |
| 4-2610 | 4-3090 | 0.411 | 83.2 | -30.2 | -16.45 | 1.184 | 100.1 | 0.453 | 1.765 | 327.0 | 544.4 | 0.965 | 2.564 | 9.38 | 0.464 | 86.4 | 259.2 | 21.3 | 0.208 |
| 4-2610 | 4-3110 | 0.400 | 83.3 | -26.6 | -15.25 | 1.184 | 100.8 | 0.457 | 1.767 | 325.2 | 547.5 | 0.959 | 2.576 | 8.45 | 0.465 | 83.8 | 257.0 | 18.9 | 0.210 |
| 4-2610 | 4-3130 | 0.395 | 83.9 | -23.1 | -14.25 | 1.185 | 101.5 | 0.463 | 1.773 | 323.0 | 550.3 | 0.952 | 2.594 | 7.74 | 0.466 | 81.4 | 255.6 | 16.8 | 0.215 |
| 4-2610 | 4-3150 | 0.394 | 84.9 | -19.6 | -13.40 | 1.186 | 102.4 | 0.471 | 1.780 | 320.6 | 552.8 | 0.943 | 2.618 | 7.19 | 0.468 | 79.1 | 255.1 | 15.0 | 0.223 |
| 4-2610 | 4-3170 | 0.397 | 86.2 | -16.2 | -12.66 | 1.187 | 103.3 | 0.479 | 1.789 | 317.9 | 555.1 | 0.932 | 2.647 | 6.76 | 0.470 | 76.9 | 255.2 | 13.4 | 0.233 |
| 4-2610 | 4-3190 | 0.404 | 87.7 | -12.9 | -12.00 | 1.188 | 104.4 | 0.489 | 1.800 | 315.1 | 557.1 | 0.919 | 2.680 | 6.43 | 0.471 | 74.8 | 256.1 | 12.0 | 0.244 |
| 4-2610 | 4-3210 | 0.413 | 89.4 | -9.8 | -11.40 | 1.190 | 105.6 | 0.501 | 1.811 | 312.0 | 559.0 | 0.904 | 2.718 | 6.17 | 0.473 | 72.8 | 257.5 | 10.9 | 0.257 |
| 4-2610 | 4-3230 | 0.426 | 91.3 | -6.8 | -10.84 | 1.191 | 106.9 | 0.513 | 1.823 | 308.8 | 560.6 | 0.888 | 2.759 | 5.98 | 0.475 | 70.8 | 259.4 | 10.0 | 0.270 |
| 4-2610 | 4-3250 | 0.442 | 93.3 | -3.9 | -10.32 | 1.193 | 108.2 | 0.527 | 1.837 | 305.3 | 562.0 | 0.868 | 2.805 | 5.83 | 0.476 | 68.9 | 261.7 | 9.1 | 0.284 |
| 4-2610 | 4-3270 | 0.461 | 95.4 | -1.3 | -9.82 | 1.195 | 109.7 | 0.542 | 1.851 | 301.7 | 563.2 | 0.847 | 2.854 | 5.74 | 0.477 | 66.9 | 264.3 | 8.4 | 0.299 |
| 4-2610 | 4-3290 | 0.483 | 97.6 | 1.2 | -9.34 | 1.196 | 111.4 | 0.559 | 1.865 | 298.0 | 564.3 | 0.823 | 2.907 | 5.69 | 0.478 | 64.9 | 267.2 | 7.9 | 0.314 |
| 4-2610 | 4-3310 | 0.508 | 99.9 | 3.5 | -8.87 | 1.198 | 113.1 | 0.576 | 1.880 | 294.1 | 565.1 | 0.796 | 2.964 | 5.68 | 0.479 | 62.9 | 270.4 | 7.3 | 0.330 |
| 4-2610 | 4-3330 | 0.535 | 102.2 | 5.6 | -8.40 | 1.200 | 114.9 | 0.595 | 1.896 | 290.0 | 565.7 | 0.767 | 3.024 | 5.71 | 0.480 | 60.9 | 273.9 | 6.9 | 0.347 |
| 4-2610 | 4-3350 | 0.566 | 104.6 | 7.5 | -7.93 | 1.202 | 116.9 | 0.616 | 1.912 | 285.8 | 566.2 | 0.735 | 3.089 | 5.77 | 0.480 | 58.7 | 277.5 | 6.5 | 0.364 |
| 4-2610 | 4-3370 | 0.599 | 107.0 | 9.3 | -7.45 | 1.204 | 119.0 | 0.637 | 1.928 | 281.5 | 566.4 | 0.699 | 3.156 | 5.88 | 0.481 | 56.6 | 281.3 | 6.2 | 0.381 |
| 4-2610 | 4-3390 | 0.636 | 109.5 | 10.8 | -6.95 | 1.206 | 121.2 | 0.660 | 1.945 | 277.0 | 566.5 | 0.661 | 3.228 | 6.03 | 0.481 | 54.3 | 285.2 | 5.9 | 0.399 |
| 4-2610 | 4-3410 | 0.675 | 112.0 | 12.2 | -6.44 | 1.207 | 123.6 | 0.684 | 1.962 | 272.4 | 566.4 | 0.621 | 3.303 | 6.22 | 0.482 | 51.9 | 289.3 | 5.6 | 0.418 |
| 4-2610 | 4-3430 | 0.717 | 114.6 | 13.4 | -5.88 | 1.209 | 126.1 | 0.708 | 1.979 | 267.6 | 566.1 | 0.577 | 3.381 | 6.46 | 0.482 | 49.4 | 293.5 | 5.4 | 0.438 |
| 4-2610 | 4-3450 | 0.761 | 117.2 | 14.4 | -5.29 | 1.211 | 128.8 | 0.734 | 1.997 | 262.7 | 565.6 | 0.532 | 3.463 | 6.76 | 0.482 | 46.9 | 297.8 | 5.2 | 0.458 |
| 4-2610 | 4-3470 | 0.809 | 119.8 | 15.3 | -4.65 | 1.213 | 131.6 | 0.760 | 2.015 | 257.7 | 564.9 | 0.484 | 3.547 | 7.13 | 0.483 | 44.2 | 302.3 | 5.0 | 0.478 |
| 4-2610 | 4-3490 | 0.859 | 122.5 | 16.0 | -3.93 | 1.215 | 134.5 | 0.787 | 2.034 | 252.5 | 564.0 | 0.434 | 3.634 | 7.59 | 0.483 | 41.4 | 306.8 | 4.8 | 0.500 |
| 4-2610 | 4-3510 | 0.912 | 125.2 | 16.6 | -3.12 | 1.217 | 137.6 | 0.813 | 2.053 | 247.1 | 562.9 | 0.384 | 3.723 | 8.15 | 0.484 | 38.4 | 311.5 | 4.7 | 0.522 |
| 4-2620 | 4-2800 | 0.555 | 77.8 | 22.5 | -0.21 | 1.428 | 106.5 | 1.066 | 14.162 | 328.1 | 465.3 | 0.936 | --- | -10.45 | 0.902 | 145.0 | 279.5 | -6.8 | 0.796 |
| 4-2620 | 4-2820 | 0.472 | 75.7 | 25.9 | 1.12 | 1.363 | 104.2 | 0.895 | 9.043 | 329.8 | 471.4 | 0.951 | --- | -11.46 | 0.798 | 141.1 | 281.0 | -8.4 | 0.683 |
| 4-2620 | 4-2840 | 0.411 | 72.8 | 31.2 | 2.75 | 1.316 | 102.3 | 0.771 | 4.200 | 331.7 | 477.8 | 0.963 | --- | -12.78 | 0.717 | 136.8 | 282.1 | -10.6 | 0.592 |
| 4-2620 | 4-2860 | 0.370 | 69.1 | 38.9 | 4.84 | 1.281 | 100.6 | 0.679 | 3.035 | 333.7 | 484.3 | 0.973 | --- | -14.57 | 0.653 | 132.3 | 282.7 | -13.5 | 0.518 |
| 4-2620 | 4-2880 | 0.352 | 64.2 | 49.7 | 7.65 | 1.254 | 99.2 | 0.612 | 2.526 | 335.7 | 490.8 | 0.981 | --- | -17.06 | 0.603 | 127.6 | 282.7 | -17.6 | 0.462 |
| 4-2620 | 4-2900 | 0.366 | 56.6 | 63.6 | 11.64 | 1.235 | 98.0 | 0.561 | 2.250 | 337.6 | 497.3 | 0.988 | --- | -20.75 | 0.564 | 122.9 | 281.5 | -23.3 | 0.425 |
| 4-2620 | 4-2920 | 0.431 | 35.9 | 79.3 | 17.79 | 1.220 | 97.0 | 0.523 | 2.082 | 339.5 | 503.5 | 0.994 | --- | -26.60 | 0.535 | 118.2 | 278.4 | -30.6 | 0.414 |
| 4-2620 | 4-2940 | 0.588 | 267.6 | 80.7 | 28.32 | 1.209 | 96.1 | 0.494 | 1.974 | 341.5 | 509.6 | 0.998 | --- | -36.83 | 0.512 | 113.6 | 271.9 | -38.7 | 0.450 |
| 4-2620 | 4-2960 | 0.921 | 240.0 | 62.2 | 48.41 | 1.201 | 95.1 | 0.473 | 1.901 | 344.0 | 515.5 | 1.003 | --- | -56.62 | 0.496 | 109.0 | 261.2 | -42.6 | 0.579 |
| 4-2620 | 4-3000 | 1.137 | 144.3 | -61.5 | -61.95 | 1.191 | 97.4 | 0.457 | 1.819 | 336.1 | 524.9 | 0.988 | --- | 54.35 | 0.477 | 102.0 | 262.5 | 44.1 | 0.544 |
| 4-2620 | 4-3020 | 0.821 | 115.4 | -60.3 | -42.73 | 1.189 | 97.0 | 0.448 | 1.797 | 337.3 | 529.6 | 0.991 | --- | 35.43 | 0.471 | 98.2 | 267.2 | 44.2 | 0.388 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2620 | 4-3040 | 0.649 | 100.5 | -55.4 | -32.59 | 1.187 | 96.9 | 0.444 | 1.783 | 337.3 | 533.9 | 0.992 | --- | 25.61 | 0.468 | 94.8 | 267.6 | 41.0 | 0.307 |
| 4-2620 | 4-3060 | 0.550 | 93.1 | -50.1 | -26.63 | 1.186 | 97.1 | 0.442 | 1.776 | 336.7 | 537.9 | 0.990 | --- | 19.96 | 0.467 | 91.7 | 265.7 | 37.2 | 0.264 |
| 4-2620 | 4-3080 | 0.488 | 89.3 | -45.1 | -22.73 | 1.185 | 97.4 | 0.443 | 1.773 | 335.5 | 541.5 | 0.988 | 2.559 | 16.39 | 0.467 | 88.8 | 263.2 | 33.3 | 0.240 |
| 4-2620 | 4-3100 | 0.447 | 87.5 | -40.3 | -19.97 | 1.186 | 97.9 | 0.445 | 1.774 | 334.0 | 544.8 | 0.984 | 2.564 | 13.96 | 0.467 | 86.2 | 260.8 | 29.5 | 0.228 |
| 4-2620 | 4-3120 | 0.420 | 86.9 | -35.8 | -17.91 | 1.186 | 98.5 | 0.449 | 1.778 | 332.1 | 547.8 | 0.979 | 2.577 | 12.22 | 0.468 | 83.8 | 258.9 | 26.1 | 0.224 |
| 4-2620 | 4-3140 | 0.402 | 87.1 | -31.3 | -16.28 | 1.187 | 99.3 | 0.455 | 1.784 | 330.0 | 550.5 | 0.973 | 2.596 | 10.94 | 0.470 | 81.5 | 257.7 | 23.1 | 0.225 |
| 4-2620 | 4-3160 | 0.391 | 87.9 | -27.0 | -14.95 | 1.188 | 100.1 | 0.461 | 1.793 | 327.6 | 553.0 | 0.966 | 2.619 | 9.97 | 0.472 | 79.3 | 257.3 | 20.5 | 0.229 |
| 4-2620 | 4-3180 | 0.386 | 89.1 | -22.8 | -13.84 | 1.189 | 101.0 | 0.469 | 1.802 | 324.9 | 555.2 | 0.957 | 2.648 | 9.22 | 0.473 | 77.3 | 257.5 | 18.2 | 0.236 |
| 4-2620 | 4-3200 | 0.386 | 90.7 | -18.8 | -12.87 | 1.191 | 102.0 | 0.478 | 1.813 | 322.1 | 557.3 | 0.946 | 2.680 | 8.64 | 0.475 | 75.4 | 258.4 | 16.3 | 0.245 |
| 4-2620 | 4-3220 | 0.390 | 92.5 | -14.9 | -12.02 | 1.192 | 103.2 | 0.488 | 1.825 | 319.0 | 559.1 | 0.934 | 2.716 | 8.18 | 0.476 | 73.5 | 259.9 | 14.7 | 0.256 |
| 4-2620 | 4-3240 | 0.397 | 94.6 | -11.2 | -11.25 | 1.194 | 104.4 | 0.500 | 1.838 | 315.8 | 560.7 | 0.920 | 2.756 | 7.83 | 0.478 | 71.7 | 261.7 | 13.4 | 0.267 |
| 4-2620 | 4-3260 | 0.408 | 96.8 | -7.8 | -10.55 | 1.195 | 105.7 | 0.512 | 1.852 | 312.4 | 562.1 | 0.904 | 2.800 | 7.55 | 0.479 | 69.9 | 264.0 | 12.2 | 0.280 |
| 4-2620 | 4-3280 | 0.423 | 99.1 | -4.6 | -9.89 | 1.197 | 107.1 | 0.525 | 1.866 | 308.9 | 563.4 | 0.885 | 2.846 | 7.35 | 0.480 | 68.1 | 266.6 | 11.2 | 0.292 |
| 4-2620 | 4-3300 | 0.441 | 101.6 | -1.6 | -9.27 | 1.199 | 108.6 | 0.540 | 1.881 | 305.2 | 564.4 | 0.865 | 2.897 | 7.21 | 0.481 | 66.3 | 269.5 | 10.4 | 0.306 |
| 4-2620 | 4-3320 | 0.461 | 104.1 | 1.1 | -8.67 | 1.201 | 110.2 | 0.556 | 1.896 | 301.4 | 565.3 | 0.842 | 2.950 | 7.12 | 0.482 | 64.4 | 272.7 | 9.7 | 0.320 |
| 4-2620 | 4-3340 | 0.485 | 106.6 | 3.6 | -8.09 | 1.203 | 111.9 | 0.573 | 1.912 | 297.5 | 566.1 | 0.816 | 3.007 | 7.08 | 0.482 | 62.6 | 276.0 | 9.1 | 0.334 |
| 4-2620 | 4-3360 | 0.512 | 109.2 | 5.8 | -7.52 | 1.204 | 113.7 | 0.591 | 1.928 | 293.4 | 566.6 | 0.788 | 3.067 | 7.09 | 0.483 | 60.7 | 279.5 | 8.6 | 0.349 |
| 4-2620 | 4-3380 | 0.541 | 111.8 | 7.7 | -6.94 | 1.206 | 115.6 | 0.610 | 1.944 | 289.2 | 567.0 | 0.757 | 3.131 | 7.15 | 0.483 | 58.7 | 283.2 | 8.1 | 0.365 |
| 4-2620 | 4-3400 | 0.573 | 114.4 | 9.4 | -6.36 | 1.208 | 117.7 | 0.631 | 1.961 | 284.9 | 567.2 | 0.724 | 3.197 | 7.25 | 0.484 | 56.7 | 287.0 | 7.7 | 0.381 |
| 4-2620 | 4-3420 | 0.608 | 117.1 | 10.9 | -5.77 | 1.210 | 119.8 | 0.652 | 1.978 | 280.5 | 567.3 | 0.688 | 3.268 | 7.40 | 0.484 | 54.6 | 291.0 | 7.3 | 0.397 |
| 4-2620 | 4-3440 | 0.645 | 119.7 | 12.2 | -5.16 | 1.212 | 122.1 | 0.675 | 1.995 | 276.0 | 567.2 | 0.649 | 3.341 | 7.60 | 0.484 | 52.4 | 295.1 | 7.0 | 0.414 |
| 4-2620 | 4-3460 | 0.686 | 122.4 | 13.4 | -4.52 | 1.213 | 124.5 | 0.698 | 2.013 | 271.4 | 566.9 | 0.608 | 3.417 | 7.85 | 0.484 | 50.1 | 299.2 | 6.8 | 0.432 |
| 4-2620 | 4-3480 | 0.728 | 125.1 | 14.3 | -3.83 | 1.215 | 127.0 | 0.722 | 2.031 | 266.6 | 566.4 | 0.565 | 3.497 | 8.17 | 0.484 | 47.7 | 303.5 | 6.5 | 0.450 |
| 4-2620 | 4-3500 | 0.774 | 127.7 | 15.1 | -3.10 | 1.217 | 129.6 | 0.747 | 2.049 | 261.7 | 565.8 | 0.519 | 3.579 | 8.56 | 0.485 | 45.2 | 307.9 | 6.3 | 0.469 |
| 4-2620 | 4-3520 | 0.821 | 130.4 | 15.7 | -2.29 | 1.219 | 132.4 | 0.772 | 2.067 | 256.7 | 565.0 | 0.471 | 3.663 | 9.04 | 0.485 | 42.6 | 312.4 | 6.1 | 0.488 |
| 4-2630 | 4-2790 | 0.596 | 80.4 | 21.5 | -0.68 | 1.499 | 104.7 | 1.264 | -3.622 | 333.6 | 459.0 | 0.956 | --- | -10.20 | 1.009 | 147.3 | 280.1 | -6.1 | 0.901 |
| 4-2630 | 4-2810 | 0.495 | 78.3 | 24.0 | 0.36 | 1.414 | 102.5 | 1.02 | 735.555 | 335.3 | 465.2 | 0.968 | --- | -10.83 | 0.880 | 143.6 | 281.6 | -7.4 | 0.765 |
| 4-2630 | 4-2830 | 0.420 | 75.3 | 27.7 | 1.56 | 1.353 | 100.5 | 0.861 | 7.055 | 337.3 | 471.6 | 0.978 | --- | -11.64 | 0.780 | 139.6 | 282.9 | -9.0 | 0.656 |
| 4-2630 | 4-2850 | 0.366 | 71.4 | 33.0 | 2.97 | 1.308 | 98.7 | 0.742 | 3.828 | 339.5 | 478.3 | 0.987 | --- | -12.66 | 0.702 | 135.2 | 283.9 | -11.0 | 0.567 |
| 4-2630 | 4-2870 | 0.330 | 66.4 | 40.1 | 4.68 | 1.275 | 97.2 | 0.655 | 2.884 | 341.7 | 485.1 | 0.994 | --- | -14.00 | 0.641 | 130.7 | 284.5 | -13.7 | 0.496 |
| 4-2630 | 4-2890 | 0.314 | 60.0 | 49.3 | 6.83 | 1.250 | 96.0 | 0.591 | 2.446 | 343.9 | 491.9 | 1.000 | --- | -15.77 | 0.593 | 126.0 | 284.5 | -17.2 | 0.440 |
| 4-2630 | 4-2910 | 0.319 | 50.7 | 60.2 | 9.62 | 1.232 | 94.9 | 0.544 | 2.202 | 346.0 | 498.5 | 1.004 | --- | -18.20 | 0.557 | 121.3 | 283.6 | -21.8 | 0.400 |
| 4-2630 | 4-2930 | 0.353 | 33.8 | 71.6 | 13.45 | 1.218 | 94.1 | 0.509 | 2.052 | 347.9 | 504.9 | 1.007 | --- | -21.66 | 0.530 | 116.7 | 281.5 | -27.7 | 0.376 |
| 4-2630 | 4-2950 | 0.428 | 345.6 | 80.0 | 19.05 | 1.208 | 93.4 | 0.484 | 1.955 | 349.6 | 511.0 | 1.009 | --- | -26.90 | 0.509 | 112.1 | 277.7 | -34.5 | 0.376 |
| 4-2630 | 4-2970 | 0.569 | 278.3 | 75.2 | 27.93 | 1.201 | 92.8 | 0.465 | 1.890 | 351.2 | 516.8 | 1.011 | --- | -35.43 | 0.494 | 107.8 | 271.7 | -41.2 | 0.414 |
| 4-2630 | 4-2990 | 0.828 | 253.5 | 62.0 | 43.28 | 1.196 | 92.2 | 0.452 | 1.846 | 353.0 | 522.3 | 1.012 | --- | -50.42 | 0.484 | 103.6 | 263.8 | -44.5 | 0.517 |
| 4-2630 | 4-3050 | 0.982 | 133.7 | -67.1 | -52.61 | 1.188 | 95.1 | 0.439 | 1.786 | 343.1 | 534.6 | 1.001 | --- | 46.56 | 0.470 | 94.2 | 265.1 | 46.0 | 0.473 |
| 4-2630 | 4-3070 | 0.750 | 109.3 | -63.0 | -38.79 | 1.187 | 95.1 | 0.438 | 1.781 | 343.2 | 538.5 | 1.001 | --- | 33.10 | 0.469 | 91.2 | 265.7 | 45.0 | 0.362 |
| 4-2630 | 4-3090 | 0.613 | 97.9 | -57.2 | -30.68 | 1.187 | 95.3 | 0.438 | 1.779 | 342.4 | 542.1 | 1.000 | 2.559 | 25.36 | 0.469 | 88.4 | 264.4 | 41.7 | 0.302 |
| 4-2630 | 4-3110 | 0.527 | 92.6 | -51.5 | -25.47 | 1.188 | 95.8 | 0.440 | 1.782 | 341.0 | 545.3 | 0.998 | 2.566 | 20.53 | 0.470 | 85.9 | 262.6 | 37.7 | 0.269 |
| 4-2630 | 4-3130 | 0.470 | 90.2 | -45.9 | -21.87 | 1.188 | 96.4 | 0.444 | 1.787 | 339.2 | 548.2 | 0.994 | 2.580 | 17.30 | 0.471 | 83.5 | 260.9 | 33.6 | 0.252 |
| 4-2630 | 4-3150 | 0.432 | 89.5 | -40.6 | -19.20 | 1.189 | 97.1 | 0.448 | 1.794 | 337.1 | 550.9 | 0.990 | 2.599 | 15.03 | 0.473 | 81.4 | 259.9 | 29.8 | 0.244 |
| 4-2630 | 4-3170 | 0.406 | 89.9 | -35.5 | -17.14 | 1.190 | 97.9 | 0.454 | 1.803 | 334.7 | 553.3 | 0.984 | 2.623 | 13.36 | 0.474 | 79.4 | 259.5 | 26.3 | 0.243 |
| 4-2630 | 4-3190 | 0.389 | 91.0 | -30.5 | -15.48 | 1.192 | 98.7 | 0.461 | 1.814 | 332.0 | 555.5 | 0.977 | 2.651 | 12.10 | 0.476 | 77.5 | 259.9 | 23.4 | 0.246 |
| 4-2630 | 4-3210 | 0.379 | 92.6 | -25.7 | -14.09 | 1.193 | 99.7 | 0.469 | 1.826 | 329.2 | 557.5 | 0.969 | 2.683 | 11.14 | 0.478 | 75.7 | 260.8 | 20.8 | 0.251 |
| 4-2630 | 4-3230 | 0.375 | 94.6 | -21.1 | -12.91 | 1.195 | 100.8 | 0.478 | 1.838 | 326.1 | 559.3 | 0.959 | 2.718 | 10.39 | 0.479 | 73.9 | 262.2 | 18.7 | 0.259 |
| 4-2630 | 4-3250 | 0.375 | 96.9 | -16.6 | -11.87 | 1.196 | 102.0 | 0.489 | 1.852 | 322.9 | 560.9 | 0.947 | 2.756 | 9.80 | 0.481 | 72.3 | 264.1 | 16.9 | 0.268 |
| 4-2630 | 4-3270 | 0.381 | 99.4 | -12.5 | -10.95 | 1.198 | 103.2 | 0.500 | 1.866 | 319.6 | 562.3 | 0.934 | 2.798 | 9.34 | 0.482 | 70.6 | 266.4 | 15.4 | 0.278 |
| 4-2630 | 4-3290 | 0.390 | 102.0 | -8.6 | -10.10 | 1.200 | 104.5 | 0.512 | 1.881 | 316.1 | 563.5 | 0.918 | 2.843 | 8.99 | 0.483 | 69.0 | 269.0 | 14.1 | 0.289 |
| 4-2630 | 4-3310 | 0.403 | 104.8 | -5.1 | -9.32 | 1.202 | 106.0 | 0.525 | 1.896 | 312.5 | 564.6 | 0.901 | 2.890 | 8.72 | 0.484 | 67.3 | 271.8 | 13.0 | 0.300 |
| 4-2630 | 4-3330 | 0.420 | 107.6 | -1.8 | -8.59 | 1.204 | 107.5 | 0.539 | 1.911 | 308.7 | 565.6 | 0.882 | 2.941 | 8.52 | 0.484 | 65.7 | 274.9 | 12.1 | 0.312 |
| 4-2630 | 4-3350 | 0.439 | 110.4 | 1.0 | -7.89 | 1.205 | 109.0 | 0.554 | 1.927 | 304.9 | 566.3 | 0.860 | 2.995 | 8.39 | 0.485 | 64.0 | 278.2 | 11.3 | 0.325 |
| 4-2630 | 4-3370 | 0.462 | 113.3 | 3.6 | -7.21 | 1.207 | 110.7 | 0.570 | 1.943 | 301.0 | 567.0 | 0.836 | 3.051 | 8.32 | 0.485 | 62.3 | 281.6 | 10.6 | 0.338 |
| 4-2630 | 4-3390 | 0.487 | 116.1 | 5.9 | -6.55 | 1.209 | 112.5 | 0.587 | 1.960 | 296.9 | 567.5 | 0.809 | 3.111 | 8.30 | 0.485 | 60.5 | 285.2 | 10.0 | 0.351 |
| 4-2630 | 4-3410 | 0.516 | 119.0 | 7.8 | -5.90 | 1.211 | 114.8 | 0.605 | 1.977 | 292.8 | 567.8 | 0.780 | 3.174 | 8.33 | 0.486 | 58.7 | 289.0 | 9.5 | 0.365 |
| 4-2630 | 4-3430 | 0.547 | 121.8 | 9.5 | -5.24 | 1.212 | 116.3 | 0.625 | 1.994 | 288.5 | 568.0 | 0.748 | 3.239 | 8.41 | 0.486 | 56.8 | 292.8 | 9.0 | 0.379 |
| 4-2630 | 4-3450 | 0.580 | 124.6 | 11.0 | -4.58 | 1.214 | 118.4 | 0.645 | 2.011 | 284.2 | 568.0 | 0.714 | 3.308 | 8.55 | 0.486 | 54.9 | 296.8 | 8.6 | 0.394 |
| 4-2630 | 4-3470 | 0.616 | 127.4 | 12.2 | -3.89 | 1.216 | 120.5 | 0.666 | 2.028 | 279.8 | 567.9 | 0.678 | 3.379 | 8.73 | 0.486 | 52.9 | 300.8 | 8.3 | 0.409 |
| 4-2630 | 4-3490 | 0.655 | 130.2 | 13.2 | -3.19 | 1.218 | 122.8 | 0.688 | 2.046 | 275.3 | 567.7 | 0.639 | 3.453 | 8.98 | 0.486 | 50.8 | 304.9 | 7.9 | 0.425 |
| 4-2630 | 4-3510 | 0.696 | 132.9 | 14.0 | -2.44 | 1.219 | 125.2 | 0.710 | 2.064 | 270.6 | 567.3 | 0.598 | 3.530 | 9.29 | 0.486 | 48.6 | 309.2 | 7.7 | 0.442 |
| 4-2630 | 4-3530 | 0.739 | 135.6 | 14.6 | -1.65 | 1.221 | 127.7 | 0.734 | 2.082 | 265.9 | 566.7 | 0.555 | 3.610 | 9.67 | 0.486 | 46.3 | 313.5 | 7.4 | 0.459 |
| 4-2640 | 4-2800 | 0.532 | 79.5 | 22.7 | -0.16 | 1.478 | 100.3 | 1.207 | -4.746 | 341.2 | 459.2 | 0.983 | --- | -10.53 | 0.977 | 145.9 | 282.1 | -6.7 | 0.862 |
| 4-2640 | 4-2820 | 0.441 | 76.3 | 25.4 | 0.82 | 1.398 | 98.3 | 0.98 | 151.958 | 343.2 | 465.7 | 0.992 | --- | -11.03 | 0.853 | 142.1 | 283.5 | -7.9 | 0.731 |
| 4-2640 | 4-2840 | 0.375 | 71.9 | 29.3 | 1.92 | 1.341 | 96.5 | 0.823 | 5.649 | 345.6 | 472.6 | 0.998 | --- | -11.65 | 0.758 | 138.0 | 284.7 | -9.4 | 0.626 |
| 4-2640 | 4-2860 | 0.329 | 66.5 | 34.4 | 3.17 | 1.299 | 94.9 | 0.711 | 3.474 | 348.1 | 479.6 | 1.004 | --- | -12.44 | 0.684 | 133.6 | 285.5 | -11.4 | 0.541 |
| 4-2640 | 4-2880 | 0.301 | 59.8 | 40.8 | 4.63 | 1.268 | 93.6 | 0.630 | 2.725 | 350.6 | 486.7 | 1.008 | --- | -13.45 | 0.626 | 129.0 | 285.9 | -13.9 | 0.473 |
| 4-2640 | 4-2900 | 0.288 | 51.7 | 48.4 | 6.36 | 1.245 | 92.6 | 0.572 | 2.357 | 353.0 | 493.7 | 1.010 | --- | -14.75 | 0.582 | 124.3 | 285.7 | -17.0 | 0.418 |
| 4-2640 | 4-2920 | 0.292 | 41.4 | 56.7 | 8.50 | 1.228 | 91.7 | 0.529 | 2.147 | 355.1 | 500.4 | 1.012 | --- | -16.46 | 0.548 | 119.6 | 284.8 | -21.0 | 0.377 |
| 4-2640 | 4-2940 | 0.313 | 26.9 | 64.9 | 11.21 | 1.216 | 91.0 | 0.498 | 2.016 | 357.0 | 506.9 | 1.012 | --- | -18.75 | 0.523 | 115.0 | 283.0 | -25.9 | 0.349 |
| 4-2640 | 4-2960 | 0.357 | 3.3 | 71.8 | 14.83 | 1.207 | 90.5 | 0.475 | 1.930 | 358.5 | 512.9 | 1.013 | --- | -21.95 | 0.504 | 110.5 | 280.1 | -31.6 | 0.337 |
| 4-2640 | 4-2980 | 0.433 | 325.2 | 74.6 | 19.91 | 1.200 | 90.1 | 0.459 | 1.873 | 359.7 | 518.6 | 1.013 | --- | -26.62 | 0.491 | 106.3 | 275.9 | -37.6 | 0.346 |
| 4-2640 | 4-3000 | 0.558 | 288.0 | 70.6 | 27.53 | 1.196 | 89.8 | 0.448 | 1.835 | 0.7 | 163.9 | --- | --- | -33.83 | 0.481 | 102.3 | 270.5 | -42.9 | 0.384 |
| 4-2640 | 4-3020 | 0.767 | 265.9 | 61.2 | 39.82 | 1.193 | 89.4 | 0.440 | 1.810 | 1.9 | 168.9 | --- | --- | -45.72 | 0.475 | 98.5 | 265.0 | -45.7 | 0.471 |
| 4-2640 | 4-3040 | 1.109 | 253.1 | 47.4 | 60.34 | 1.191 | 88.9 | 0.436 | 1.794 | 3.8 | 173.6 | --- | --- | -65.84 | 0.472 | 94.9 | 261.3 | -43.2 | 0.627 |
| 4-2640 | 4-3080 | 1.152 | 158.1 | -72.1 | -63.10 | 1.189 | 93.6 | 0.435 | 1.782 | 348.2 | 539.2 | 1.006 | --- | 58.41 | 0.470 | 90.7 | 266.1 | 44.8 | 0.568 |
| 4-2640 | 4-3100 | 0.862 | 118.9 | -69.9 | -45.46 | 1.189 | 93.5 | 0.435 | 1.783 | 348.6 | 542.8 | 1.007 | 2.560 | 41.19 | 0.470 | 87.9 | 266.3 | 46.3 | 0.428 |
| 4-2640 | 4-3120 | 0.683 | 101.5 | -63.5 | -34.90 | 1.190 | 93.7 | 0.437 | 1.787 | 347.7 | 546.0 | 1.006 | 2.569 | 31.03 | 0.472 | 85.4 | 265.1 | 44.2 | 0.348 |
| 4-2640 | 4-3140 | 0.570 | 94.4 | -57.0 | -28.21 | 1.191 | 94.2 | 0.440 | 1.794 | 346.2 | 548.8 | 1.004 | 2.584 | 24.76 | 0.473 | 83.2 | 263.6 | 40.5 | 0.303 |
| 4-2640 | 4-3160 | 0.495 | 91.7 | -50.8 | -23.65 | 1.192 | 94.9 | 0.445 | 1.802 | 344.2 | 551.4 | 1.001 | 2.604 | 20.62 | 0.475 | 81.1 | 262.5 | 36.3 | 0.279 |
| 4-2640 | 4-3180 | 0.444 | 91.1 | -44.8 | -20.35 | 1.193 | 95.6 | 0.450 | 1.813 | 341.8 | 553.7 | 0.997 | 2.628 | 17.75 | 0.477 | 79.2 | 262.1 | 32.3 | 0.267 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2640 | 4-3200 | 0.410 | 91.8 | -39.1 | -17.83 | 1.194 | 96.5 | 0.456 | 1.824 | 339.2 | 555.9 | 0.992 | 2.656 | 15.66 | 0.478 | 77.5 | 262.4 | 28.7 | 0.263 |
| 4-2640 | 4-3220 | 0.386 | 93.3 | -33.5 | -15.82 | 1.196 | 97.4 | 0.463 | 1.837 | 336.3 | 557.8 | 0.986 | 2.687 | 14.11 | 0.480 | 75.8 | 263.3 | 25.5 | 0.263 |
| 4-2640 | 4-3240 | 0.371 | 95.4 | -28.1 | -14.17 | 1.198 | 98.5 | 0.471 | 1.850 | 333.3 | 559.5 | 0.978 | 2.722 | 12.91 | 0.482 | 74.2 | 264.7 | 22.8 | 0.267 |
| 4-2640 | 4-3260 | 0.363 | 97.9 | -22.9 | -12.77 | 1.199 | 99.6 | 0.480 | 1.864 | 330.1 | 561.1 | 0.969 | 2.759 | 11.99 | 0.483 | 72.6 | 266.5 | 20.6 | 0.273 |
| 4-2640 | 4-3280 | 0.361 | 100.8 | -18.0 | -11.56 | 1.201 | 100.8 | 0.490 | 1.879 | 326.8 | 562.5 | 0.958 | 2.800 | 11.26 | 0.484 | 71.1 | 268.8 | 18.6 | 0.280 |
| 4-2640 | 4-3300 | 0.364 | 103.8 | -13.4 | -10.49 | 1.203 | 102.0 | 0.501 | 1.894 | 323.4 | 563.7 | 0.946 | 2.843 | 10.70 | 0.485 | 69.6 | 271.3 | 17.0 | 0.288 |
| 4-2640 | 4-3320 | 0.371 | 106.9 | -9.2 | -9.52 | 1.205 | 103.4 | 0.512 | 1.910 | 319.8 | 564.8 | 0.932 | 2.888 | 10.25 | 0.486 | 68.1 | 274.1 | 15.6 | 0.298 |
| 4-2640 | 4-3340 | 0.383 | 110.1 | -5.3 | -8.63 | 1.206 | 104.8 | 0.525 | 1.926 | 316.1 | 565.8 | 0.916 | 2.936 | 9.91 | 0.486 | 66.6 | 277.2 | 14.5 | 0.308 |
| 4-2640 | 4-3360 | 0.398 | 113.4 | -1.9 | -7.80 | 1.208 | 106.3 | 0.538 | 1.942 | 312.4 | 566.6 | 0.897 | 2.987 | 9.65 | 0.487 | 65.1 | 280.4 | 13.5 | 0.318 |
| 4-2640 | 4-3380 | 0.417 | 116.6 | 1.1 | -7.01 | 1.210 | 107.8 | 0.552 | 1.959 | 308.5 | 567.3 | 0.877 | 3.041 | 9.47 | 0.487 | 63.6 | 283.8 | 12.6 | 0.329 |
| 4-2640 | 4-3400 | 0.438 | 119.8 | 3.8 | -6.26 | 1.212 | 109.5 | 0.568 | 1.976 | 304.6 | 567.8 | 0.854 | 3.097 | 9.35 | 0.487 | 62.0 | 287.3 | 11.8 | 0.341 |
| 4-2640 | 4-3420 | 0.463 | 123.0 | 6.0 | -5.53 | 1.214 | 111.2 | 0.584 | 1.992 | 300.6 | 568.3 | 0.829 | 3.156 | 9.29 | 0.488 | 60.4 | 290.9 | 11.2 | 0.353 |
| 4-2640 | 4-3440 | 0.490 | 126.1 | 7.9 | -4.81 | 1.215 | 113.0 | 0.601 | 2.010 | 296.5 | 568.5 | 0.802 | 3.217 | 9.29 | 0.488 | 58.7 | 294.7 | 10.6 | 0.365 |
| 4-2640 | 4-3460 | 0.520 | 129.2 | 9.6 | -4.10 | 1.217 | 114.9 | 0.619 | 2.027 | 292.3 | 568.7 | 0.773 | 3.281 | 9.34 | 0.488 | 57.0 | 298.5 | 10.1 | 0.378 |
| 4-2640 | 4-3480 | 0.552 | 132.1 | 10.9 | -3.38 | 1.219 | 116.9 | 0.638 | 2.044 | 288.1 | 568.8 | 0.741 | 3.348 | 9.45 | 0.488 | 55.2 | 302.5 | 9.7 | 0.391 |
| 4-2640 | 4-3500 | 0.587 | 135.1 | 12.0 | -2.65 | 1.221 | 118.9 | 0.657 | 2.062 | 283.7 | 568.7 | 0.706 | 3.417 | 9.61 | 0.488 | 53.3 | 306.5 | 9.3 | 0.405 |
| 4-2640 | 4-3520 | 0.624 | 137.9 | 12.9 | -1.90 | 1.222 | 121.1 | 0.678 | 2.080 | 279.3 | 568.5 | 0.670 | 3.489 | 9.83 | 0.488 | 51.4 | 310.6 | 8.9 | 0.419 |
| 4-2640 | 4-3540 | 0.663 | 140.7 | 13.5 | -1.12 | 1.224 | 123.3 | 0.699 | 2.097 | 274.8 | 568.1 | 0.631 | 3.564 | 10.11 | 0.488 | 49.3 | 314.7 | 8.6 | 0.434 |
| 4-2650 | 4-2790 | 0.590 | 79.5 | 21.6 | -0.58 | 1.561 | 97.4 | 1.457 | -2.182 | 347.5 | 453.6 | 0.997 | --- | -10.43 | 1.095 | 148.0 | 282.5 | -6.2 | 0.980 |
| 4-2650 | 4-2810 | 0.477 | 76.0 | 23.7 | 0.29 | 1.456 | 95.6 | 1.140 | -7.153 | 349.5 | 460.2 | 1.002 | --- | -10.71 | 0.941 | 144.5 | 283.8 | -7.1 | 0.820 |
| 4-2650 | 4-2830 | 0.398 | 71.2 | 26.6 | 1.23 | 1.381 | 93.9 | 0.928 | 14.052 | 352.0 | 467.1 | 1.006 | --- | -11.07 | 0.824 | 140.7 | 285.0 | -8.3 | 0.695 |
| 4-2650 | 4-2850 | 0.343 | 65.1 | 30.3 | 2.25 | 1.328 | 92.3 | 0.782 | 4.630 | 354.7 | 474.4 | 1.009 | --- | -11.54 | 0.733 | 136.4 | 286.0 | -9.8 | 0.595 |
| 4-2650 | 4-2870 | 0.307 | 58.0 | 34.8 | 3.37 | 1.289 | 91.0 | 0.679 | 3.149 | 357.6 | 481.8 | 1.010 | --- | -12.14 | 0.663 | 131.9 | 286.6 | -11.6 | 0.514 |
| 4-2650 | 4-2890 | 0.286 | 50.0 | 40.0 | 4.64 | 1.261 | 89.9 | 0.606 | 2.565 | 0.3 | 129.1 | --- | --- | -12.89 | 0.609 | 127.3 | 286.8 | -14.0 | 0.448 |
| 4-2650 | 4-2910 | 0.279 | 41.3 | 45.7 | 6.10 | 1.240 | 89.0 | 0.554 | 2.263 | 2.9 | 136.3 | --- | --- | -13.85 | 0.568 | 122.5 | 286.4 | -16.8 | 0.396 |
| 4-2650 | 4-2930 | 0.283 | 31.6 | 51.5 | 7.82 | 1.224 | 88.3 | 0.516 | 2.085 | 5.0 | 143.1 | --- | --- | -15.08 | 0.537 | 117.8 | 285.4 | -20.4 | 0.355 |
| 4-2650 | 4-2950 | 0.298 | 20.5 | 57.4 | 9.90 | 1.213 | 87.8 | 0.489 | 1.973 | 6.8 | 149.5 | --- | --- | -16.68 | 0.514 | 113.2 | 283.5 | -24.6 | 0.326 |
| 4-2650 | 4-2970 | 0.327 | 6.6 | 62.9 | 12.49 | 1.205 | 87.4 | 0.470 | 1.900 | 8.1 | 155.5 | --- | --- | -18.81 | 0.497 | 108.8 | 280.8 | -29.4 | 0.309 |
| 4-2650 | 4-2990 | 0.373 | 348.0 | 67.3 | 15.85 | 1.199 | 87.2 | 0.456 | 1.852 | 9.0 | 161.0 | --- | --- | -21.72 | 0.485 | 104.7 | 277.2 | -34.6 | 0.306 |
| 4-2650 | 4-3010 | 0.443 | 323.6 | 69.1 | 20.43 | 1.196 | 87.1 | 0.447 | 1.820 | 9.5 | 166.0 | --- | --- | -25.84 | 0.478 | 100.8 | 273.0 | -39.6 | 0.321 |
| 4-2650 | 4-3030 | 0.551 | 297.9 | 67.0 | 27.01 | 1.193 | 87.0 | 0.441 | 1.799 | 9.8 | 170.7 | --- | --- | -31.98 | 0.473 | 97.2 | 268.7 | -43.8 | 0.359 |
| 4-2650 | 4-3050 | 0.723 | 277.8 | 60.6 | 37.12 | 1.191 | 86.9 | 0.437 | 1.788 | 10.2 | 175.0 | --- | --- | -41.64 | 0.470 | 93.9 | 265.3 | -46.1 | 0.433 |
| 4-2650 | 4-3070 | 0.998 | 264.5 | 49.8 | 53.39 | 1.191 | 86.7 | 0.436 | 1.782 | 11.0 | 179.1 | --- | --- | -57.47 | 0.470 | 90.7 | 264.0 | -45.0 | 0.560 |
| 4-2650 | 4-3130 | 0.986 | 131.4 | -76.4 | -52.75 | 1.192 | 92.0 | 0.437 | 1.790 | 353.5 | 546.6 | 1.009 | 2.572 | 49.98 | 0.472 | 84.9 | 269.3 | 45.9 | 0.502 |
| 4-2650 | 4-3150 | 0.760 | 103.4 | -69.4 | -39.40 | 1.193 | 92.2 | 0.439 | 1.799 | 352.7 | 549.5 | 1.008 | 2.589 | 37.07 | 0.474 | 82.7 | 267.8 | 45.2 | 0.399 |
| 4-2650 | 4-3170 | 0.617 | 94.5 | -61.8 | -30.99 | 1.194 | 92.7 | 0.443 | 1.809 | 351.1 | 552.0 | 1.007 | 2.610 | 29.10 | 0.476 | 80.7 | 266.3 | 42.1 | 0.341 |
| 4-2650 | 4-3190 | 0.522 | 91.7 | -54.8 | -25.36 | 1.196 | 93.4 | 0.448 | 1.820 | 348.9 | 554.3 | 1.005 | 2.635 | 23.93 | 0.478 | 78.9 | 265.4 | 38.2 | 0.308 |
| 4-2650 | 4-3210 | 0.458 | 91.5 | -48.2 | -21.35 | 1.197 | 94.2 | 0.453 | 1.833 | 346.4 | 556.3 | 1.002 | 2.664 | 20.38 | 0.480 | 77.3 | 265.3 | 34.1 | 0.291 |
| 4-2650 | 4-3230 | 0.414 | 92.7 | -41.9 | -18.35 | 1.199 | 95.2 | 0.460 | 1.846 | 343.6 | 558.2 | 0.998 | 2.695 | 17.83 | 0.482 | 75.7 | 266.0 | 30.4 | 0.283 |
| 4-2650 | 4-3250 | 0.383 | 94.9 | -35.9 | -15.99 | 1.201 | 96.1 | 0.467 | 1.861 | 340.6 | 559.9 | 0.993 | 2.729 | 15.94 | 0.483 | 74.2 | 267.3 | 27.1 | 0.280 |
| 4-2650 | 4-3270 | 0.363 | 97.6 | -30.0 | -14.08 | 1.202 | 97.2 | 0.474 | 1.876 | 337.4 | 561.4 | 0.986 | 2.765 | 14.51 | 0.485 | 72.8 | 269.1 | 24.3 | 0.282 |
| 4-2650 | 4-3290 | 0.351 | 100.8 | -24.3 | -12.47 | 1.204 | 98.4 | 0.483 | 1.891 | 334.1 | 562.7 | 0.978 | 2.804 | 13.40 | 0.486 | 71.4 | 271.2 | 22.0 | 0.286 |
| 4-2650 | 4-3310 | 0.345 | 104.2 | -19.0 | -11.10 | 1.206 | 99.6 | 0.492 | 1.907 | 330.7 | 563.9 | 0.968 | 2.846 | 12.53 | 0.487 | 70.0 | 273.7 | 19.9 | 0.291 |
| 4-2650 | 4-3330 | 0.346 | 107.9 | -14.0 | -9.89 | 1.208 | 100.8 | 0.502 | 1.923 | 327.2 | 565.0 | 0.957 | 2.890 | 11.85 | 0.488 | 68.7 | 276.5 | 18.2 | 0.298 |
| 4-2650 | 4-3350 | 0.352 | 111.6 | -9.4 | -8.81 | 1.210 | 102.2 | 0.513 | 1.940 | 323.6 | 566.0 | 0.944 | 2.936 | 11.31 | 0.488 | 67.3 | 279.4 | 16.8 | 0.306 |
| 4-2650 | 4-3370 | 0.362 | 115.3 | -5.3 | -7.82 | 1.211 | 103.6 | 0.525 | 1.957 | 319.9 | 566.8 | 0.929 | 2.984 | 10.89 | 0.489 | 66.0 | 282.6 | 15.6 | 0.314 |
| 4-2650 | 4-3390 | 0.376 | 119.1 | -1.7 | -6.91 | 1.213 | 105.1 | 0.538 | 1.973 | 316.1 | 567.5 | 0.912 | 3.035 | 10.57 | 0.489 | 64.6 | 285.9 | 14.5 | 0.323 |
| 4-2650 | 4-3410 | 0.394 | 122.8 | 1.4 | -6.06 | 1.215 | 106.6 | 0.551 | 1.991 | 312.2 | 568.1 | 0.893 | 3.088 | 10.33 | 0.489 | 63.2 | 289.4 | 13.6 | 0.333 |
| 4-2650 | 4-3430 | 0.415 | 126.4 | 4.1 | -5.25 | 1.217 | 108.2 | 0.566 | 2.008 | 308.3 | 568.6 | 0.872 | 3.143 | 10.16 | 0.489 | 61.7 | 292.9 | 12.8 | 0.343 |
| 4-2650 | 4-3450 | 0.439 | 129.8 | 6.3 | -4.46 | 1.219 | 109.9 | 0.581 | 2.025 | 304.4 | 569.0 | 0.849 | 3.201 | 10.06 | 0.489 | 60.2 | 296.6 | 12.1 | 0.353 |
| 4-2650 | 4-3470 | 0.465 | 133.2 | 8.1 | -3.70 | 1.220 | 111.6 | 0.597 | 2.043 | 300.3 | 569.3 | 0.824 | 3.261 | 10.01 | 0.489 | 58.7 | 300.4 | 11.5 | 0.364 |
| 4-2650 | 4-3490 | 0.494 | 136.5 | 9.6 | -2.95 | 1.222 | 113.4 | 0.613 | 2.060 | 296.2 | 569.4 | 0.796 | 3.324 | 10.03 | 0.489 | 57.1 | 304.2 | 11.0 | 0.375 |
| 4-2650 | 4-3510 | 0.525 | 139.7 | 10.8 | -2.20 | 1.224 | 115.3 | 0.631 | 2.078 | 292.1 | 569.5 | 0.767 | 3.389 | 10.10 | 0.489 | 55.4 | 308.1 | 10.5 | 0.387 |
| 4-2650 | 4-3530 | 0.559 | 142.7 | 11.8 | -1.44 | 1.225 | 117.3 | 0.649 | 2.095 | 287.8 | 569.4 | 0.735 | 3.456 | 10.22 | 0.490 | 53.7 | 312.1 | 10.1 | 0.399 |
| 4-2650 | 4-3550 | 0.594 | 145.6 | 12.5 | -0.67 | 1.227 | 119.3 | 0.668 | 2.113 | 283.5 | 569.2 | 0.701 | 3.525 | 10.40 | 0.490 | 51.9 | 316.1 | 9.7 | 0.412 |
| 4-2660 | 4-2800 | 0.538 | 74.6 | 22.3 | -0.14 | 1.529 | 92.2 | 1.357 | -2.822 | 356.2 | 455.0 | 1.007 | --- | -10.58 | 1.048 | 146.9 | 284.0 | -6.5 | 0.929 |
| 4-2660 | 4-2820 | 0.440 | 69.4 | 24.4 | 0.71 | 1.431 | 90.6 | 1.066 | 15.379 | 358.8 | 462.0 | 1.008 | --- | -10.75 | 0.901 | 143.2 | 285.2 | -7.4 | 0.776 |
| 4-2660 | 4-2840 | 0.374 | 62.9 | 27.1 | 1.61 | 1.363 | 89.2 | 0.872 | 7.888 | 1.8 | 109.5 | --- | --- | -10.99 | 0.790 | 139.2 | 286.2 | -8.6 | 0.657 |
| 4-2660 | 4-2860 | 0.331 | 55.5 | 30.1 | 2.56 | 1.313 | 87.9 | 0.740 | 3.874 | 4.9 | 117.2 | --- | --- | -11.31 | 0.705 | 134.9 | 286.9 | -10.0 | 0.562 |
| 4-2660 | 4-2880 | 0.305 | 47.6 | 33.5 | 3.59 | 1.278 | 86.8 | 0.648 | 2.857 | 8.1 | 125.0 | --- | --- | -11.74 | 0.640 | 130.2 | 287.2 | -11.8 | 0.485 |
| 4-2660 | 4-2900 | 0.292 | 39.6 | 37.2 | 4.72 | 1.252 | 85.9 | 0.584 | 2.409 | 11.0 | 132.5 | --- | --- | -12.29 | 0.590 | 125.4 | 287.1 | -14.0 | 0.423 |
| 4-2660 | 4-2920 | 0.289 | 31.9 | 41.0 | 5.98 | 1.234 | 85.2 | 0.539 | 2.166 | 13.6 | 139.8 | --- | --- | -12.99 | 0.552 | 120.6 | 286.5 | -16.6 | 0.373 |
| 4-2660 | 4-2940 | 0.293 | 24.4 | 45.1 | 7.41 | 1.220 | 84.7 | 0.507 | 2.020 | 15.7 | 146.5 | --- | --- | -13.88 | 0.524 | 115.8 | 285.1 | -19.8 | 0.334 |
| 4-2660 | 4-2960 | 0.305 | 16.7 | 49.5 | 9.07 | 1.210 | 84.4 | 0.484 | 1.927 | 17.3 | 152.8 | --- | --- | -15.02 | 0.503 | 111.3 | 283.0 | -23.4 | 0.306 |
| 4-2660 | 4-2980 | 0.324 | 8.3 | 54.1 | 11.05 | 1.203 | 84.2 | 0.468 | 1.866 | 18.3 | 158.5 | --- | --- | -16.49 | 0.489 | 106.9 | 280.2 | -27.5 | 0.287 |
| 4-2660 | 4-3000 | 0.352 | 358.3 | 58.5 | 13.48 | 1.198 | 84.1 | 0.457 | 1.826 | 18.8 | 163.8 | --- | --- | -18.42 | 0.479 | 102.8 | 276.8 | -31.9 | 0.280 |
| 4-2660 | 4-3020 | 0.394 | 345.2 | 62.4 | 16.56 | 1.195 | 84.2 | 0.449 | 1.801 | 18.9 | 168.5 | --- | --- | -21.02 | 0.473 | 99.1 | 273.1 | -36.2 | 0.283 |
| 4-2660 | 4-3040 | 0.455 | 328.1 | 64.8 | 20.65 | 1.193 | 84.3 | 0.444 | 1.786 | 18.7 | 172.9 | --- | --- | -24.62 | 0.469 | 95.6 | 269.4 | -40.2 | 0.301 |
| 4-2660 | 4-3060 | 0.547 | 308.2 | 64.4 | 26.34 | 1.192 | 84.4 | 0.442 | 1.778 | 18.2 | 176.8 | --- | --- | -29.84 | 0.468 | 92.5 | 266.4 | -43.6 | 0.337 |
| 4-2660 | 4-3080 | 0.688 | 289.6 | 60.3 | 34.74 | 1.192 | 84.6 | 0.440 | 1.776 | 17.7 | 180.5 | --- | 2.558 | -37.77 | 0.468 | 89.6 | 264.9 | -45.8 | 0.400 |
| 4-2660 | 4-3100 | 0.910 | 275.7 | 52.1 | 47.83 | 1.192 | 84.6 | 0.441 | 1.778 | 17.6 | 183.9 | --- | 2.562 | -50.40 | 0.469 | 86.9 | 265.6 | -45.8 | 0.503 |
| 4-2660 | 4-3160 | 1.122 | 155.9 | -82.6 | -60.91 | 1.195 | 90.6 | 0.440 | 1.801 | 358.0 | 550.1 | 1.008 | 2.594 | 59.71 | 0.474 | 82.2 | 274.2 | 44.2 | 0.582 |
| 4-2660 | 4-3180 | 0.848 | 102.1 | -75.0 | -44.39 | 1.197 | 90.8 | 0.444 | 1.813 | 357.4 | 552.7 | 1.008 | 2.618 | 43.65 | 0.477 | 80.3 | 272.2 | 45.3 | 0.456 |
| 4-2660 | 4-3200 | 0.669 | 92.5 | -66.0 | -33.93 | 1.198 | 91.3 | 0.448 | 1.826 | 355.8 | 554.9 | 1.008 | 2.644 | 33.64 | 0.479 | 78.5 | 270.3 | 43.1 | 0.381 |
| 4-2660 | 4-3220 | 0.551 | 90.4 | -58.1 | -27.05 | 1.200 | 92.0 | 0.453 | 1.840 | 353.5 | 556.9 | 1.006 | 2.673 | 27.23 | 0.481 | 76.9 | 269.4 | 39.4 | 0.338 |
| 4-2660 | 4-3240 | 0.472 | 91.0 | -50.8 | -22.25 | 1.202 | 92.9 | 0.458 | 1.854 | 350.8 | 558.6 | 1.004 | 2.704 | 22.90 | 0.483 | 75.5 | 269.4 | 35.4 | 0.314 |
| 4-2660 | 4-3260 | 0.417 | 92.9 | -44.1 | -18.72 | 1.204 | 93.8 | 0.464 | 1.870 | 347.9 | 560.3 | 1.001 | 2.738 | 19.84 | 0.485 | 74.1 | 270.3 | 31.6 | 0.302 |
| 4-2660 | 4-3280 | 0.379 | 95.8 | -37.5 | -16.00 | 1.205 | 94.9 | 0.471 | 1.886 | 344.8 | 561.7 | 0.997 | 2.774 | 17.59 | 0.486 | 72.8 | 271.8 | 28.2 | 0.297 |
| 4-2660 | 4-3300 | 0.354 | 99.3 | -31.2 | -13.82 | 1.207 | 96.0 | 0.479 | 1.902 | 341.5 | 563.0 | 0.992 | 2.812 | 15.90 | 0.487 | 71.5 | 273.8 | 25.4 | 0.296 |
| 4-2660 | 4-3320 | 0.337 | 103.1 | -25.1 | -12.02 | 1.209 | 97.1 | 0.487 | 1.919 | 338.1 | 564.2 | 0.985 | 2.853 | 14.60 | 0.488 | 70.3 | 276.2 | 22.9 | 0.297 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2660 | 4-3340 | 0.329 | 107.3 | -19.3 | -10.49 | 1.211 | 98.3 | 0.496 | 1.936 | 334.7 | 565.3 | 0.976 | 2.895 | 13.59 | 0.489 | 69.0 | 278.8 | 20.9 | 0.301 |
| 4-2660 | 4-3360 | 0.328 | 111.6 | -14.0 | -9.16 | 1.213 | 99.6 | 0.505 | 1.953 | 331.1 | 566.2 | 0.966 | 2.939 | 12.78 | 0.490 | 67.8 | 281.7 | 19.1 | 0.307 |
| 4-2660 | 4-3380 | 0.332 | 116.0 | -9.1 | -7.98 | 1.215 | 100.9 | 0.515 | 1.970 | 327.4 | 567.1 | 0.955 | 2.985 | 12.15 | 0.490 | 66.6 | 284.8 | 17.6 | 0.313 |
| 4-2660 | 4-3400 | 0.341 | 120.4 | -4.9 | -6.92 | 1.217 | 102.3 | 0.527 | 1.987 | 323.7 | 567.8 | 0.941 | 3.034 | 11.65 | 0.491 | 65.3 | 288.1 | 16.3 | 0.320 |
| 4-2660 | 4-3420 | 0.354 | 124.6 | -1.1 | -5.94 | 1.218 | 103.8 | 0.538 | 2.005 | 319.9 | 568.4 | 0.926 | 3.084 | 11.25 | 0.491 | 64.1 | 291.5 | 15.2 | 0.328 |
| 4-2660 | 4-3440 | 0.371 | 128.8 | 2.0 | -5.03 | 1.220 | 105.3 | 0.551 | 2.022 | 316.1 | 569.0 | 0.908 | 3.136 | 10.95 | 0.491 | 62.8 | 294.9 | 14.3 | 0.336 |
| 4-2660 | 4-3460 | 0.392 | 132.8 | 4.6 | -4.18 | 1.222 | 106.9 | 0.564 | 2.040 | 312.2 | 569.4 | 0.889 | 3.191 | 10.73 | 0.491 | 61.4 | 298.5 | 13.5 | 0.344 |
| 4-2660 | 4-3480 | 0.415 | 136.7 | 6.7 | -3.36 | 1.224 | 108.5 | 0.578 | 2.058 | 308.3 | 569.7 | 0.868 | 3.247 | 10.58 | 0.491 | 60.1 | 302.2 | 12.8 | 0.353 |
| 4-2660 | 4-3500 | 0.440 | 140.3 | 8.4 | -2.57 | 1.225 | 110.2 | 0.593 | 2.075 | 304.3 | 570.0 | 0.845 | 3.306 | 10.49 | 0.491 | 58.6 | 306.0 | 12.1 | 0.363 |
| 4-2660 | 4-3520 | 0.468 | 143.8 | 9.7 | -1.80 | 1.227 | 111.9 | 0.609 | 2.093 | 300.3 | 570.1 | 0.819 | 3.367 | 10.46 | 0.491 | 57.2 | 309.8 | 11.6 | 0.373 |
| 4-2660 | 4-3540 | 0.498 | 147.1 | 10.8 | -1.03 | 1.229 | 113.7 | 0.625 | 2.111 | 296.2 | 570.2 | 0.792 | 3.430 | 10.49 | 0.491 | 55.7 | 313.6 | 11.1 | 0.383 |
| 4-2660 | 4-3560 | 0.531 | 150.3 | 11.5 | -0.27 | 1.230 | 115.6 | 0.642 | 2.129 | 292.1 | 570.2 | 0.763 | 3.495 | 10.57 | 0.491 | 54.1 | 317.6 | 10.7 | 0.394 |
| 4-2670 | 4-2790 | 0.636 | 72.7 | 21.1 | -0.56 | 1.626 | 87.8 | 1.660 | -1.523 | 3.5 | 90.3 | --- | --- | -10.62 | 1.182 | 149.2 | 284.1 | -6.0 | 1.066 |
| 4-2670 | 4-2810 | 0.509 | 67.3 | 22.6 | 0.27 | 1.495 | 86.6 | 1.248 | -4.044 | 6.1 | 97.4 | --- | --- | -10.61 | 0.996 | 145.8 | 285.1 | -6.8 | 0.876 |
| 4-2670 | 4-2830 | 0.427 | 60.5 | 24.4 | 1.12 | 1.406 | 85.4 | 0.987 | 78.761 | 9.3 | 105.0 | --- | --- | -10.66 | 0.858 | 142.0 | 286.1 | -7.7 | 0.732 |
| 4-2670 | 4-2850 | 0.376 | 53.1 | 26.4 | 1.99 | 1.343 | 84.3 | 0.816 | 5.401 | 12.8 | 113.1 | --- | --- | -10.78 | 0.754 | 137.8 | 286.8 | -8.8 | 0.619 |
| 4-2670 | 4-2870 | 0.344 | 45.5 | 28.5 | 2.89 | 1.298 | 83.3 | 0.700 | 3.302 | 16.4 | 121.2 | --- | --- | -10.98 | 0.674 | 133.2 | 287.2 | -10.2 | 0.529 |
| 4-2670 | 4-2890 | 0.327 | 38.3 | 30.7 | 3.84 | 1.266 | 82.4 | 0.622 | 2.599 | 19.8 | 129.2 | --- | --- | -11.26 | 0.613 | 128.4 | 287.2 | -11.9 | 0.457 |
| 4-2670 | 4-2910 | 0.319 | 31.8 | 33.1 | 4.85 | 1.243 | 81.8 | 0.567 | 2.260 | 22.8 | 136.9 | --- | --- | -11.64 | 0.567 | 123.5 | 286.7 | -13.9 | 0.398 |
| 4-2670 | 4-2930 | 0.318 | 26.0 | 35.8 | 5.96 | 1.227 | 81.3 | 0.530 | 2.069 | 25.2 | 144.0 | --- | --- | -12.13 | 0.533 | 118.6 | 285.7 | -16.3 | 0.351 |
| 4-2670 | 4-2950 | 0.321 | 20.7 | 38.9 | 7.18 | 1.215 | 81.0 | 0.503 | 1.951 | 27.1 | 150.6 | --- | --- | -12.76 | 0.508 | 113.8 | 284.0 | -19.1 | 0.315 |
| 4-2670 | 4-2970 | 0.329 | 15.8 | 42.4 | 8.54 | 1.206 | 80.9 | 0.485 | 1.877 | 28.3 | 156.6 | --- | --- | -13.56 | 0.490 | 109.1 | 281.6 | -22.2 | 0.288 |
| 4-2670 | 4-2990 | 0.341 | 10.7 | 46.2 | 10.12 | 1.201 | 80.8 | 0.472 | 1.828 | 28.9 | 162.0 | --- | --- | -14.59 | 0.478 | 104.8 | 278.6 | -25.6 | 0.269 |
| 4-2670 | 4-3010 | 0.358 | 4.9 | 50.3 | 11.97 | 1.197 | 80.9 | 0.463 | 1.798 | 29.0 | 166.9 | --- | --- | -15.91 | 0.471 | 100.8 | 275.2 | -29.2 | 0.260 |
| 4-2670 | 4-3030 | 0.383 | 357.8 | 54.6 | 14.20 | 1.194 | 81.1 | 0.456 | 1.779 | 28.7 | 171.3 | --- | --- | -17.62 | 0.466 | 97.2 | 271.6 | -32.7 | 0.259 |
| 4-2670 | 4-3050 | 0.418 | 348.4 | 58.6 | 16.98 | 1.193 | 81.4 | 0.452 | 1.769 | 28.0 | 175.3 | --- | --- | -19.90 | 0.464 | 93.9 | 268.3 | -36.1 | 0.267 |
| 4-2670 | 4-3070 | 0.469 | 335.6 | 61.6 | 20.58 | 1.193 | 81.7 | 0.450 | 1.766 | 27.0 | 178.9 | --- | --- | -23.01 | 0.464 | 90.9 | 265.7 | -39.3 | 0.286 |
| 4-2670 | 4-3090 | 0.544 | 319.3 | 62.7 | 25.47 | 1.193 | 82.1 | 0.448 | 1.767 | 25.8 | 182.2 | --- | 2.559 | -27.42 | 0.465 | 88.2 | 264.2 | -42.1 | 0.319 |
| 4-2670 | 4-3110 | 0.658 | 301.9 | 60.6 | 32.46 | 1.193 | 82.5 | 0.448 | 1.772 | 24.5 | 185.3 | --- | 2.566 | -33.93 | 0.467 | 85.7 | 264.3 | -44.4 | 0.371 |
| 4-2670 | 4-3130 | 0.835 | 287.3 | 54.6 | 43.04 | 1.194 | 82.8 | 0.449 | 1.780 | 23.5 | 188.1 | --- | 2.580 | -44.03 | 0.469 | 83.5 | 266.5 | -45.4 | 0.454 |
| 4-2670 | 4-3150 | 1.108 | 277.2 | 44.3 | 59.58 | 1.196 | 82.8 | 0.452 | 1.790 | 23.1 | 190.9 | --- | 2.599 | -60.11 | 0.471 | 81.3 | 271.1 | -43.7 | 0.585 |
| 4-2670 | 4-3210 | 0.951 | 93.3 | -80.4 | -50.25 | 1.201 | 89.5 | 0.450 | 1.830 | 1.8 | 195.4 | --- | 2.653 | 51.10 | 0.479 | 78.0 | 278.1 | 44.6 | 0.519 |
| 4-2670 | 4-3230 | 0.729 | 87.5 | -69.6 | -37.23 | 1.203 | 89.9 | 0.455 | 1.845 | 0.2 | 197.4 | --- | 2.684 | 38.54 | 0.481 | 76.5 | 275.6 | 43.5 | 0.424 |
| 4-2670 | 4-3250 | 0.584 | 87.7 | -60.6 | -28.81 | 1.205 | 90.7 | 0.460 | 1.861 | 357.9 | 559.1 | 1.006 | 2.716 | 30.58 | 0.483 | 75.1 | 274.2 | 40.1 | 0.369 |
| 4-2670 | 4-3270 | 0.487 | 89.6 | -52.7 | -23.08 | 1.207 | 91.5 | 0.465 | 1.877 | 355.2 | 560.7 | 1.005 | 2.750 | 25.32 | 0.485 | 73.8 | 274.2 | 36.2 | 0.337 |
| 4-2670 | 4-3290 | 0.421 | 92.6 | -45.4 | -18.97 | 1.209 | 92.5 | 0.471 | 1.894 | 352.2 | 562.1 | 1.003 | 2.786 | 21.67 | 0.487 | 72.6 | 275.1 | 32.4 | 0.320 |
| 4-2670 | 4-3310 | 0.375 | 96.2 | -38.4 | -15.85 | 1.210 | 93.5 | 0.477 | 1.911 | 349.0 | 563.4 | 1.000 | 2.823 | 19.03 | 0.488 | 71.4 | 276.7 | 29.0 | 0.312 |
| 4-2670 | 4-3330 | 0.344 | 100.5 | -31.7 | -13.40 | 1.212 | 94.7 | 0.484 | 1.929 | 345.7 | 564.5 | 0.996 | 2.862 | 17.06 | 0.489 | 70.3 | 278.8 | 26.0 | 0.308 |
| 4-2670 | 4-3350 | 0.324 | 105.1 | -25.2 | -11.41 | 1.214 | 95.8 | 0.491 | 1.947 | 342.2 | 565.5 | 0.990 | 2.903 | 15.56 | 0.490 | 69.2 | 281.3 | 23.5 | 0.308 |
| 4-2670 | 4-3370 | 0.313 | 110.1 | -19.0 | -9.74 | 1.216 | 97.1 | 0.500 | 1.964 | 338.7 | 566.5 | 0.983 | 2.946 | 14.39 | 0.491 | 68.1 | 284.1 | 21.4 | 0.310 |
| 4-2670 | 4-3390 | 0.309 | 115.1 | -13.4 | -8.30 | 1.218 | 98.3 | 0.509 | 1.982 | 335.1 | 567.3 | 0.974 | 2.990 | 13.46 | 0.491 | 66.9 | 287.1 | 19.6 | 0.314 |
| 4-2670 | 4-3410 | 0.312 | 120.2 | -8.3 | -7.04 | 1.220 | 99.7 | 0.518 | 2.000 | 331.4 | 568.0 | 0.964 | 3.037 | 12.73 | 0.492 | 65.8 | 290.2 | 18.1 | 0.319 |
| 4-2670 | 4-3430 | 0.320 | 125.2 | -3.9 | -5.91 | 1.222 | 101.0 | 0.528 | 2.018 | 327.7 | 568.7 | 0.952 | 3.085 | 12.15 | 0.492 | 64.7 | 293.5 | 16.8 | 0.324 |
| 4-2670 | 4-3450 | 0.333 | 130.1 | -0.1 | -4.89 | 1.224 | 102.5 | 0.539 | 2.036 | 323.9 | 569.3 | 0.938 | 3.134 | 11.69 | 0.492 | 63.5 | 297.0 | 15.7 | 0.331 |
| 4-2670 | 4-3470 | 0.349 | 134.8 | 3.0 | -3.95 | 1.225 | 103.9 | 0.551 | 2.054 | 320.1 | 569.7 | 0.923 | 3.186 | 11.32 | 0.492 | 62.4 | 300.5 | 14.7 | 0.337 |
| 4-2670 | 4-3490 | 0.369 | 139.2 | 5.5 | -3.07 | 1.227 | 105.5 | 0.563 | 2.072 | 316.3 | 570.1 | 0.905 | 3.239 | 11.05 | 0.492 | 61.1 | 304.1 | 13.9 | 0.345 |
| 4-2670 | 4-3510 | 0.391 | 143.4 | 7.4 | -2.23 | 1.229 | 107.0 | 0.576 | 2.090 | 312.4 | 570.5 | 0.886 | 3.294 | 10.84 | 0.492 | 59.9 | 307.7 | 13.1 | 0.352 |
| 4-2670 | 4-3530 | 0.416 | 147.4 | 8.9 | -1.43 | 1.230 | 108.7 | 0.590 | 2.108 | 308.5 | 570.7 | 0.865 | 3.351 | 10.71 | 0.492 | 58.6 | 311.5 | 12.5 | 0.361 |
| 4-2670 | 4-3550 | 0.443 | 151.1 | 10.0 | -0.65 | 1.232 | 110.3 | 0.604 | 2.126 | 304.5 | 570.8 | 0.842 | 3.410 | 10.63 | 0.493 | 57.2 | 315.3 | 11.9 | 0.369 |
| 4-2670 | 4-3570 | 0.472 | 154.6 | 10.8 | 0.11 | 1.234 | 112.1 | 0.619 | 2.144 | 300.5 | 570.9 | 0.817 | 3.471 | 10.61 | 0.493 | 55.9 | 319.1 | 11.4 | 0.378 |
| 4-2680 | 4-2800 | 0.619 | 65.3 | 21.1 | -0.15 | 1.581 | 81.6 | 1.497 | -1.984 | 14.0 | 93.3 | --- | --- | -10.63 | 1.117 | 148.5 | 284.9 | -6.2 | 1.003 |
| 4-2680 | 4-2820 | 0.511 | 58.6 | 22.3 | 0.70 | 1.460 | 80.7 | 1.136 | -7.203 | 17.4 | 101.1 | --- | --- | -10.51 | 0.941 | 145.0 | 285.7 | -6.9 | 0.824 |
| 4-2680 | 4-2840 | 0.445 | 51.4 | 23.6 | 1.53 | 1.379 | 79.9 | 0.910 | 10.829 | 21.2 | 109.5 | --- | --- | -10.45 | 0.812 | 140.9 | 286.4 | -7.7 | 0.688 |
| 4-2680 | 4-2860 | 0.405 | 44.3 | 24.8 | 2.38 | 1.322 | 79.1 | 0.764 | 4.075 | 25.3 | 118.1 | --- | --- | -10.46 | 0.714 | 136.5 | 286.8 | -8.8 | 0.582 |
| 4-2680 | 4-2880 | 0.383 | 37.9 | 26.1 | 3.23 | 1.282 | 78.4 | 0.667 | 2.863 | 29.1 | 126.5 | --- | --- | -10.53 | 0.640 | 131.7 | 286.8 | -10.1 | 0.497 |
| 4-2680 | 4-2900 | 0.371 | 32.3 | 27.6 | 4.12 | 1.254 | 77.9 | 0.602 | 2.374 | 32.6 | 134.6 | --- | --- | -10.68 | 0.584 | 126.6 | 286.4 | -11.7 | 0.429 |
| 4-2680 | 4-2920 | 0.365 | 27.6 | 29.4 | 5.04 | 1.234 | 77.5 | 0.558 | 2.121 | 35.4 | 142.1 | --- | --- | -10.91 | 0.543 | 121.5 | 285.5 | -13.5 | 0.374 |
| 4-2680 | 4-2940 | 0.363 | 23.6 | 31.5 | 6.02 | 1.220 | 77.2 | 0.528 | 1.974 | 37.5 | 149.0 | --- | --- | -11.23 | 0.512 | 116.4 | 284.0 | -15.7 | 0.331 |
| 4-2680 | 4-2960 | 0.364 | 20.2 | 33.9 | 7.07 | 1.209 | 77.1 | 0.507 | 1.882 | 38.9 | 155.2 | --- | --- | -11.66 | 0.491 | 111.5 | 281.9 | -18.1 | 0.297 |
| 4-2680 | 4-2980 | 0.368 | 17.0 | 36.8 | 8.22 | 1.202 | 77.2 | 0.492 | 1.825 | 39.7 | 160.7 | --- | --- | -12.21 | 0.476 | 106.9 | 279.2 | -20.7 | 0.272 |
| 4-2680 | 4-3000 | 0.374 | 14.0 | 40.0 | 9.51 | 1.198 | 77.3 | 0.481 | 1.788 | 39.8 | 165.7 | --- | --- | -12.92 | 0.466 | 102.6 | 276.0 | -23.5 | 0.255 |
| 4-2680 | 4-3020 | 0.382 | 10.6 | 43.6 | 10.96 | 1.195 | 77.6 | 0.474 | 1.766 | 39.5 | 170.1 | --- | --- | -13.82 | 0.461 | 98.7 | 272.5 | -26.3 | 0.246 |
| 4-2680 | 4-3040 | 0.395 | 6.7 | 47.6 | 12.65 | 1.193 | 77.9 | 0.468 | 1.754 | 38.7 | 174.1 | --- | --- | -14.97 | 0.458 | 95.1 | 269.2 | -29.0 | 0.243 |
| 4-2680 | 4-3060 | 0.414 | 1.6 | 51.8 | 14.66 | 1.193 | 78.3 | 0.464 | 1.750 | 37.5 | 177.7 | --- | --- | -16.46 | 0.458 | 92.0 | 266.2 | -31.6 | 0.247 |
| 4-2680 | 4-3080 | 0.441 | 354.7 | 55.9 | 17.12 | 1.193 | 78.8 | 0.462 | 1.751 | 36.0 | 181.0 | --- | 2.559 | -18.42 | 0.459 | 89.1 | 263.9 | -34.2 | 0.258 |
| 4-2680 | 4-3100 | 0.481 | 344.8 | 59.5 | 20.25 | 1.193 | 79.4 | 0.460 | 1.755 | 34.3 | 184.0 | --- | 2.563 | -21.06 | 0.461 | 86.6 | 262.6 | -36.8 | 0.276 |
| 4-2680 | 4-3120 | 0.541 | 331.3 | 61.7 | 24.40 | 1.195 | 79.9 | 0.459 | 1.764 | 32.5 | 186.8 | --- | 2.573 | -24.72 | 0.463 | 84.3 | 262.4 | -39.4 | 0.304 |
| 4-2680 | 4-3140 | 0.631 | 315.2 | 61.4 | 30.16 | 1.196 | 80.5 | 0.459 | 1.774 | 30.6 | 189.4 | --- | 2.589 | -30.02 | 0.466 | 82.2 | 263.7 | -41.9 | 0.346 |
| 4-2680 | 4-3160 | 0.770 | 299.7 | 57.6 | 38.66 | 1.198 | 81.0 | 0.460 | 1.786 | 28.8 | 191.7 | --- | 2.609 | -38.05 | 0.470 | 80.3 | 266.9 | -43.9 | 0.412 |
| 4-2680 | 4-3180 | 0.989 | 288.0 | 49.4 | 51.84 | 1.199 | 81.4 | 0.463 | 1.800 | 27.5 | 194.0 | --- | 2.633 | -50.77 | 0.473 | 78.5 | 272.4 | -44.2 | 0.515 |
| 4-2680 | 4-3240 | 1.077 | 54.9 | -84.6 | -57.59 | 1.205 | 88.2 | 0.458 | 1.848 | 5.8 | 197.9 | --- | 2.695 | 60.01 | 0.481 | 76.0 | 285.2 | 43.1 | 0.591 |
| 4-2680 | 4-3260 | 0.802 | 78.6 | -72.6 | -41.23 | 1.207 | 88.6 | 0.463 | 1.865 | 4.5 | 199.6 | --- | 2.729 | 44.10 | 0.483 | 74.6 | 281.9 | 43.5 | 0.471 |
| 4-2680 | 4-3280 | 0.622 | 83.7 | -62.5 | -30.80 | 1.209 | 89.3 | 0.467 | 1.883 | 2.3 | 201.1 | --- | 2.763 | 34.12 | 0.485 | 73.4 | 279.8 | 40.7 | 0.400 |
| 4-2680 | 4-3300 | 0.504 | 87.7 | -53.8 | -23.92 | 1.212 | 90.1 | 0.472 | 1.901 | 359.5 | 562.5 | 1.003 | 2.799 | 27.68 | 0.487 | 72.2 | 279.4 | 36.8 | 0.360 |
| 4-2680 | 4-3320 | 0.425 | 91.8 | -45.9 | -19.11 | 1.214 | 91.1 | 0.478 | 1.919 | 356.5 | 563.7 | 1.003 | 2.836 | 23.32 | 0.488 | 71.1 | 280.2 | 32.9 | 0.337 |
| 4-2680 | 4-3340 | 0.371 | 96.4 | -38.4 | -15.57 | 1.216 | 92.2 | 0.484 | 1.938 | 353.2 | 564.8 | 1.001 | 2.875 | 20.24 | 0.490 | 70.1 | 281.8 | 29.4 | 0.325 |
| 4-2680 | 4-3360 | 0.334 | 101.5 | -31.2 | -12.84 | 1.218 | 93.3 | 0.490 | 1.956 | 349.8 | 565.8 | 0.998 | 2.915 | 17.96 | 0.491 | 69.1 | 283.9 | 26.3 | 0.319 |
| 4-2680 | 4-3380 | 0.310 | 106.9 | -24.3 | -10.65 | 1.220 | 94.5 | 0.497 | 1.975 | 346.3 | 566.7 | 0.994 | 2.956 | 16.24 | 0.492 | 68.1 | 286.5 | 23.7 | 0.317 |
| 4-2680 | 4-3400 | 0.296 | 112.6 | -17.8 | -8.85 | 1.222 | 95.8 | 0.504 | 1.994 | 342.8 | 567.6 | 0.988 | 2.999 | 14.91 | 0.492 | 67.1 | 289.4 | 21.6 | 0.317 |
| 4-2680 | 4-3420 | 0.291 | 118.4 | -11.9 | -7.32 | 1.223 | 97.0 | 0.513 | 2.012 | 339.2 | 568.3 | 0.981 | 3.044 | 13.87 | 0.493 | 66.1 | 292.4 | 19.7 | 0.320 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2680 | 4-3440 | 0.293 | 124.3 | -6.6 | -5.99 | 1.225 | 98.3 | 0.521 | 2.031 | 335.5 | 569.0 | 0.972 | 3.089 | 13.04 | 0.493 | 65.1 | 295.6 | 18.2 | 0.323 |
| 4-2680 | 4-3460 | 0.300 | 130.0 | -2.1 | -4.82 | 1.227 | 99.7 | 0.531 | 2.049 | 331.8 | 569.5 | 0.962 | 3.137 | 12.38 | 0.493 | 64.1 | 299.0 | 16.9 | 0.328 |
| 4-2680 | 4-3480 | 0.312 | 135.5 | 1.6 | -3.76 | 1.229 | 101.1 | 0.541 | 2.068 | 328.0 | 570.0 | 0.950 | 3.186 | 11.85 | 0.493 | 63.0 | 302.4 | 15.8 | 0.333 |
| 4-2680 | 4-3500 | 0.328 | 140.7 | 4.5 | -2.80 | 1.231 | 102.5 | 0.551 | 2.086 | 324.3 | 570.5 | 0.936 | 3.236 | 11.43 | 0.494 | 62.0 | 305.9 | 14.8 | 0.338 |
| 4-2680 | 4-3520 | 0.347 | 145.6 | 6.8 | -1.91 | 1.232 | 104.0 | 0.563 | 2.104 | 320.5 | 570.8 | 0.921 | 3.288 | 11.10 | 0.494 | 60.8 | 309.5 | 13.9 | 0.344 |
| 4-2680 | 4-3540 | 0.369 | 150.2 | 8.5 | -1.07 | 1.234 | 105.5 | 0.574 | 2.123 | 316.6 | 571.1 | 0.903 | 3.342 | 10.84 | 0.494 | 59.7 | 313.2 | 13.2 | 0.351 |
| 4-2680 | 4-3560 | 0.393 | 154.4 | 9.7 | -0.27 | 1.236 | 107.1 | 0.587 | 2.141 | 312.8 | 571.4 | 0.884 | 3.397 | 10.66 | 0.494 | 58.5 | 316.9 | 12.6 | 0.358 |
| 4-2680 | 4-3580 | 0.419 | 158.3 | 10.6 | 0.49 | 1.237 | 108.7 | 0.600 | 2.159 | 308.9 | 571.5 | 0.863 | 3.454 | 10.53 | 0.494 | 57.3 | 320.7 | 12.0 | 0.365 |
| 4-2690 | 4-2810 | 0.635 | 57.6 | 20.8 | 0.29 | 1.534 | 75.0 | 1.334 | -2.822 | 26.1 | 97.8 | --- | --- | -10.51 | 1.049 | 148.2 | 285.0 | -6.1 | 0.943 |
| 4-2690 | 4-2830 | 0.545 | 50.8 | 21.6 | 1.15 | 1.425 | 74.6 | 1.029 | 31.712 | 30.3 | 106.5 | --- | --- | -10.27 | 0.884 | 144.4 | 285.6 | -6.8 | 0.774 |
| 4-2690 | 4-2850 | 0.491 | 44.2 | 22.3 | 1.98 | 1.352 | 74.1 | 0.842 | 5.805 | 34.8 | 115.5 | --- | --- | -10.11 | 0.762 | 140.0 | 285.9 | -7.6 | 0.646 |
| 4-2690 | 4-2870 | 0.460 | 38.5 | 23.1 | 2.80 | 1.301 | 73.7 | 0.722 | 3.264 | 39.2 | 124.5 | --- | --- | -10.01 | 0.671 | 135.2 | 286.0 | -8.7 | 0.546 |
| 4-2690 | 4-2890 | 0.441 | 33.6 | 24.1 | 3.62 | 1.266 | 73.3 | 0.645 | 2.519 | 43.1 | 133.0 | --- | --- | -9.97 | 0.603 | 130.1 | 285.6 | -9.9 | 0.467 |
| 4-2690 | 4-2910 | 0.431 | 29.7 | 25.3 | 4.44 | 1.241 | 73.1 | 0.594 | 2.179 | 46.3 | 140.9 | --- | --- | -10.01 | 0.553 | 124.8 | 284.8 | -11.3 | 0.404 |
| 4-2690 | 4-2930 | 0.424 | 26.5 | 26.7 | 5.29 | 1.224 | 73.0 | 0.559 | 1.993 | 48.7 | 148.0 | --- | --- | -10.11 | 0.516 | 119.4 | 283.3 | -12.9 | 0.353 |
| 4-2690 | 4-2950 | 0.421 | 23.9 | 28.5 | 6.16 | 1.212 | 73.0 | 0.535 | 1.883 | 50.2 | 154.3 | --- | --- | -10.29 | 0.489 | 114.2 | 281.3 | -14.7 | 0.314 |
| 4-2690 | 4-2970 | 0.419 | 21.8 | 30.5 | 7.08 | 1.203 | 73.1 | 0.519 | 1.814 | 51.1 | 159.9 | --- | --- | -10.55 | 0.471 | 109.1 | 278.8 | -16.7 | 0.283 |
| 4-2690 | 4-2990 | 0.418 | 19.9 | 32.9 | 8.06 | 1.198 | 73.3 | 0.506 | 1.772 | 51.2 | 164.9 | --- | --- | -10.90 | 0.460 | 104.5 | 275.8 | -18.8 | 0.261 |
| 4-2690 | 4-3010 | 0.418 | 18.1 | 35.7 | 9.12 | 1.195 | 73.6 | 0.497 | 1.747 | 50.8 | 169.4 | --- | --- | -11.37 | 0.453 | 100.2 | 272.4 | -20.9 | 0.246 |
| 4-2690 | 4-3030 | 0.421 | 16.3 | 38.7 | 10.29 | 1.193 | 74.1 | 0.490 | 1.733 | 50.0 | 173.4 | --- | --- | -11.97 | 0.450 | 96.3 | 269.1 | -23.0 | 0.237 |
| 4-2690 | 4-3050 | 0.425 | 14.2 | 42.2 | 11.60 | 1.192 | 74.6 | 0.485 | 1.727 | 48.7 | 176.9 | --- | --- | -12.74 | 0.449 | 92.9 | 266.1 | -25.0 | 0.234 |
| 4-2690 | 4-3070 | 0.433 | 11.6 | 45.9 | 13.11 | 1.192 | 75.1 | 0.481 | 1.728 | 47.1 | 180.2 | --- | 2.559 | -13.72 | 0.450 | 89.8 | 263.5 | -26.9 | 0.236 |
| 4-2690 | 4-3090 | 0.445 | 8.0 | 50.0 | 14.87 | 1.193 | 75.8 | 0.478 | 1.733 | 45.2 | 183.2 | --- | 2.561 | -14.98 | 0.453 | 87.1 | 261.7 | -28.8 | 0.243 |
| 4-2690 | 4-3110 | 0.464 | 2.9 | 54.1 | 17.01 | 1.194 | 76.4 | 0.476 | 1.741 | 43.1 | 185.9 | --- | 2.570 | -16.63 | 0.456 | 84.7 | 260.7 | -30.8 | 0.254 |
| 4-2690 | 4-3130 | 0.493 | 355.5 | 58.1 | 19.67 | 1.195 | 77.2 | 0.474 | 1.753 | 40.8 | 188.3 | --- | 2.583 | -18.81 | 0.459 | 82.6 | 260.6 | -33.0 | 0.270 |
| 4-2690 | 4-3150 | 0.537 | 344.6 | 61.2 | 23.12 | 1.197 | 77.9 | 0.473 | 1.766 | 38.4 | 190.6 | --- | 2.601 | -21.80 | 0.463 | 80.7 | 261.5 | -35.4 | 0.293 |
| 4-2690 | 4-3170 | 0.605 | 330.0 | 62.6 | 27.80 | 1.199 | 78.6 | 0.473 | 1.781 | 36.0 | 192.8 | --- | 2.622 | -26.03 | 0.467 | 79.0 | 263.6 | -38.1 | 0.326 |
| 4-2690 | 4-3190 | 0.711 | 313.7 | 60.8 | 34.52 | 1.201 | 79.3 | 0.473 | 1.797 | 33.7 | 194.7 | --- | 2.647 | -32.30 | 0.471 | 77.5 | 267.2 | -40.9 | 0.375 |
| 4-2690 | 4-3210 | 0.879 | 299.9 | 55.0 | 44.77 | 1.203 | 80.0 | 0.475 | 1.814 | 31.6 | 196.6 | --- | 2.675 | -42.12 | 0.474 | 76.0 | 272.9 | -42.9 | 0.453 |
| 4-2690 | 4-3230 | 1.145 | 291.0 | 44.6 | 61.10 | 1.206 | 80.3 | 0.478 | 1.831 | 30.2 | 198.4 | --- | 2.706 | -58.02 | 0.477 | 74.6 | 281.2 | -42.5 | 0.578 |
| 4-2690 | 4-3290 | 0.898 | 63.8 | -74.8 | -46.55 | 1.212 | 87.2 | 0.472 | 1.887 | 8.6 | 201.5 | --- | 2.778 | 50.90 | 0.485 | 72.8 | 289.2 | 43.0 | 0.527 |
| 4-2690 | 4-3310 | 0.669 | 78.7 | -63.9 | -33.29 | 1.215 | 87.9 | 0.476 | 1.907 | 6.6 | 202.9 | --- | 2.815 | 38.06 | 0.487 | 71.7 | 286.1 | 41.0 | 0.434 |
| 4-2690 | 4-3330 | 0.524 | 85.6 | -54.3 | -24.86 | 1.217 | 88.8 | 0.481 | 1.926 | 3.8 | 204.1 | --- | 2.852 | 30.05 | 0.488 | 70.7 | 285.0 | 37.2 | 0.382 |
| 4-2690 | 4-3350 | 0.429 | 91.1 | -45.7 | -19.19 | 1.219 | 89.7 | 0.486 | 1.945 | 0.8 | 205.1 | --- | 2.890 | 24.80 | 0.490 | 69.8 | 285.5 | 33.2 | 0.353 |
| 4-2690 | 4-3370 | 0.366 | 96.6 | -37.5 | -15.15 | 1.221 | 90.8 | 0.491 | 1.965 | 357.5 | 566.1 | 1.000 | 2.930 | 21.18 | 0.491 | 68.9 | 287.0 | 29.5 | 0.336 |
| 4-2690 | 4-3390 | 0.323 | 102.4 | -29.8 | -12.11 | 1.223 | 92.0 | 0.497 | 1.984 | 354.1 | 567.0 | 0.999 | 2.970 | 18.57 | 0.492 | 68.0 | 289.2 | 26.3 | 0.328 |
| 4-2690 | 4-3410 | 0.296 | 108.6 | -22.4 | -9.74 | 1.225 | 93.2 | 0.503 | 2.004 | 350.6 | 567.8 | 0.996 | 3.011 | 16.62 | 0.493 | 67.1 | 291.8 | 23.6 | 0.324 |
| 4-2690 | 4-3430 | 0.280 | 115.1 | -15.5 | -7.81 | 1.227 | 94.4 | 0.510 | 2.023 | 347.0 | 568.5 | 0.992 | 3.054 | 15.13 | 0.493 | 66.2 | 294.7 | 21.4 | 0.323 |
| 4-2690 | 4-3450 | 0.274 | 121.7 | -9.3 | -6.20 | 1.229 | 95.7 | 0.517 | 2.042 | 343.4 | 569.2 | 0.986 | 3.098 | 13.97 | 0.494 | 65.3 | 297.7 | 19.5 | 0.324 |
| 4-2690 | 4-3470 | 0.275 | 128.3 | -3.9 | -4.83 | 1.231 | 97.0 | 0.525 | 2.061 | 339.7 | 569.8 | 0.979 | 3.144 | 13.05 | 0.494 | 64.4 | 301.0 | 18.0 | 0.326 |
| 4-2690 | 4-3490 | 0.281 | 134.7 | 0.5 | -3.63 | 1.232 | 98.3 | 0.534 | 2.080 | 336.0 | 570.3 | 0.970 | 3.190 | 12.31 | 0.494 | 63.5 | 304.4 | 16.6 | 0.330 |
| 4-2690 | 4-3510 | 0.293 | 140.9 | 4.1 | -2.56 | 1.234 | 99.7 | 0.543 | 2.099 | 332.3 | 570.8 | 0.960 | 3.238 | 11.72 | 0.494 | 62.5 | 307.8 | 15.5 | 0.333 |
| 4-2690 | 4-3530 | 0.308 | 146.6 | 6.8 | -1.59 | 1.236 | 101.1 | 0.552 | 2.118 | 328.6 | 571.2 | 0.948 | 3.287 | 11.25 | 0.495 | 61.5 | 311.3 | 14.5 | 0.338 |
| 4-2690 | 4-3550 | 0.327 | 152.0 | 8.7 | -0.71 | 1.238 | 102.5 | 0.563 | 2.136 | 324.8 | 571.5 | 0.934 | 3.338 | 10.87 | 0.495 | 60.5 | 314.9 | 13.7 | 0.343 |
| 4-2690 | 4-3570 | 0.348 | 156.9 | 10.1 | 0.12 | 1.239 | 104.0 | 0.573 | 2.155 | 321.0 | 571.8 | 0.919 | 3.390 | 10.57 | 0.495 | 59.5 | 318.6 | 13.0 | 0.349 |
| 4-2690 | 4-3590 | 0.372 | 161.4 | 11.0 | 0.89 | 1.241 | 105.5 | 0.585 | 2.173 | 317.2 | 572.1 | 0.902 | 3.444 | 10.34 | 0.495 | 58.4 | 322.3 | 12.3 | 0.355 |
| 4-2700 | 4-2840 | 0.607 | 45.2 | 20.7 | 1.65 | 1.390 | 68.2 | 0.938 | 13.727 | 45.2 | 113.8 | --- | --- | -9.89 | 0.824 | 144.1 | 284.8 | -6.6 | 0.728 |
| 4-2700 | 4-2860 | 0.561 | 40.0 | 21.3 | 2.48 | 1.325 | 68.1 | 0.789 | 3.985 | 50.1 | 123.2 | --- | --- | -9.62 | 0.710 | 139.3 | 284.7 | -7.3 | 0.607 |
| 4-2700 | 4-2880 | 0.533 | 35.7 | 21.9 | 3.28 | 1.280 | 68.0 | 0.697 | 2.724 | 54.5 | 132.2 | --- | --- | -9.42 | 0.626 | 134.1 | 284.3 | -8.2 | 0.514 |
| 4-2700 | 4-2900 | 0.515 | 32.3 | 22.8 | 4.06 | 1.249 | 68.0 | 0.637 | 2.248 | 58.0 | 140.4 | --- | --- | -9.28 | 0.564 | 128.6 | 283.5 | -9.3 | 0.440 |
| 4-2700 | 4-2920 | 0.502 | 29.7 | 23.9 | 4.83 | 1.228 | 68.1 | 0.598 | 2.011 | 60.5 | 147.6 | --- | --- | -9.21 | 0.519 | 122.9 | 282.1 | -10.5 | 0.382 |
| 4-2700 | 4-2940 | 0.494 | 27.7 | 25.2 | 5.60 | 1.213 | 68.2 | 0.572 | 1.877 | 62.2 | 154.0 | --- | --- | -9.21 | 0.486 | 117.2 | 280.2 | -11.9 | 0.336 |
| 4-2700 | 4-2960 | 0.487 | 26.1 | 26.7 | 6.38 | 1.204 | 68.5 | 0.553 | 1.797 | 63.0 | 159.7 | --- | --- | -9.26 | 0.464 | 111.7 | 277.7 | -13.4 | 0.300 |
| 4-2700 | 4-2980 | 0.481 | 24.9 | 28.5 | 7.19 | 1.197 | 68.9 | 0.539 | 1.748 | 63.1 | 164.6 | --- | --- | -9.39 | 0.450 | 106.6 | 274.8 | -14.9 | 0.274 |
| 4-2700 | 4-3000 | 0.476 | 23.9 | 30.5 | 8.02 | 1.193 | 69.3 | 0.528 | 1.719 | 62.7 | 169.0 | --- | --- | -9.59 | 0.442 | 101.8 | 271.6 | -16.4 | 0.255 |
| 4-2700 | 4-3020 | 0.472 | 23.0 | 32.8 | 8.90 | 1.191 | 69.8 | 0.520 | 1.704 | 61.7 | 172.9 | --- | --- | -9.88 | 0.438 | 97.6 | 268.4 | -17.9 | 0.242 |
| 4-2700 | 4-3040 | 0.469 | 22.2 | 35.4 | 9.85 | 1.190 | 70.4 | 0.513 | 1.698 | 60.3 | 176.4 | --- | --- | -10.26 | 0.437 | 93.8 | 265.3 | -19.3 | 0.235 |
| 4-2700 | 4-3060 | 0.467 | 21.2 | 38.3 | 10.89 | 1.190 | 71.1 | 0.507 | 1.699 | 58.6 | 179.6 | --- | --- | -10.75 | 0.439 | 90.4 | 262.7 | -20.6 | 0.232 |
| 4-2700 | 4-3080 | 0.466 | 20.0 | 41.5 | 12.03 | 1.191 | 71.8 | 0.503 | 1.704 | 56.6 | 182.5 | --- | 2.561 | -11.39 | 0.442 | 87.5 | 260.7 | -21.9 | 0.233 |
| 4-2700 | 4-3100 | 0.468 | 18.4 | 45.0 | 13.34 | 1.192 | 72.6 | 0.499 | 1.713 | 54.3 | 185.1 | --- | 2.568 | -12.19 | 0.445 | 84.9 | 259.4 | -23.2 | 0.238 |
| 4-2700 | 4-3120 | 0.474 | 16.1 | 48.9 | 14.85 | 1.194 | 73.4 | 0.495 | 1.725 | 51.9 | 187.6 | --- | 2.580 | -13.23 | 0.450 | 82.7 | 258.8 | -24.6 | 0.245 |
| 4-2700 | 4-3140 | 0.485 | 12.7 | 52.9 | 16.64 | 1.196 | 74.2 | 0.492 | 1.740 | 49.3 | 189.8 | --- | 2.596 | -14.57 | 0.454 | 80.7 | 259.0 | -26.2 | 0.255 |
| 4-2700 | 4-3160 | 0.504 | 7.4 | 57.0 | 18.84 | 1.198 | 75.1 | 0.490 | 1.756 | 46.6 | 191.9 | --- | 2.616 | -16.32 | 0.459 | 79.0 | 259.9 | -28.2 | 0.268 |
| 4-2700 | 4-3180 | 0.534 | 359.2 | 60.8 | 21.64 | 1.201 | 76.0 | 0.489 | 1.773 | 43.7 | 193.8 | --- | 2.639 | -18.69 | 0.463 | 77.5 | 261.6 | -30.5 | 0.286 |
| 4-2700 | 4-3200 | 0.582 | 346.9 | 63.6 | 25.35 | 1.203 | 76.9 | 0.488 | 1.791 | 40.9 | 195.6 | --- | 2.664 | -21.98 | 0.468 | 76.1 | 264.2 | -33.2 | 0.310 |
| 4-2700 | 4-3220 | 0.658 | 330.7 | 64.0 | 30.53 | 1.205 | 77.7 | 0.487 | 1.810 | 38.1 | 197.3 | --- | 2.692 | -26.76 | 0.472 | 74.9 | 267.8 | -36.4 | 0.345 |
| 4-2700 | 4-3240 | 0.780 | 314.2 | 60.8 | 38.27 | 1.208 | 78.6 | 0.488 | 1.829 | 35.4 | 198.8 | --- | 2.722 | -34.09 | 0.475 | 73.7 | 273.2 | -39.7 | 0.400 |
| 4-2700 | 4-3260 | 0.982 | 302.0 | 53.0 | 50.61 | 1.210 | 79.2 | 0.490 | 1.849 | 33.2 | 200.3 | --- | 2.754 | -46.03 | 0.478 | 72.5 | 281.1 | -42.0 | 0.491 |
| 4-2700 | 4-3280 | 1.303 | 295.8 | 40.1 | 70.80 | 1.213 | 79.6 | 0.493 | 1.869 | 31.9 | 201.8 | --- | 2.791 | -65.84 | 0.481 | 71.3 | 291.6 | -40.6 | 0.640 |
| 4-2700 | 4-3320 | 1.035 | 40.8 | -75.3 | -54.33 | 1.217 | 85.9 | 0.482 | 1.910 | 12.5 | 203.2 | --- | 2.831 | 60.06 | 0.486 | 71.2 | 297.8 | 41.9 | 0.597 |
| 4-2700 | 4-3340 | 0.735 | 72.1 | -65.0 | -36.77 | 1.220 | 86.5 | 0.486 | 1.931 | 10.8 | 204.4 | --- | 2.870 | 42.88 | 0.488 | 70.2 | 293.2 | 41.3 | 0.473 |
| 4-2700 | 4-3360 | 0.550 | 83.4 | -54.4 | -26.08 | 1.222 | 87.3 | 0.490 | 1.951 | 8.2 | 205.4 | --- | 2.908 | 32.56 | 0.489 | 69.3 | 291.0 | 37.6 | 0.404 |
| 4-2700 | 4-3380 | 0.435 | 90.7 | -44.8 | -19.25 | 1.224 | 88.3 | 0.495 | 1.972 | 5.1 | 206.4 | --- | 2.947 | 26.12 | 0.491 | 68.4 | 291.0 | 33.3 | 0.366 |
| 4-2700 | 4-3400 | 0.361 | 97.2 | -35.7 | -14.60 | 1.226 | 89.4 | 0.499 | 1.992 | 1.8 | 207.3 | --- | 2.987 | 21.84 | 0.492 | 67.6 | 292.3 | 29.3 | 0.346 |
| 4-2700 | 4-3420 | 0.313 | 103.7 | -27.2 | -11.22 | 1.228 | 90.5 | 0.504 | 2.012 | 358.4 | 568.0 | 0.997 | 3.027 | 18.84 | 0.493 | 66.9 | 294.4 | 25.9 | 0.335 |
| 4-2700 | 4-3440 | 0.283 | 110.5 | -19.2 | -8.64 | 1.230 | 91.7 | 0.510 | 2.032 | 354.9 | 568.8 | 0.996 | 3.068 | 16.66 | 0.493 | 66.1 | 297.0 | 23.1 | 0.329 |
| 4-2700 | 4-3460 | 0.266 | 117.7 | -11.8 | -6.61 | 1.232 | 93.0 | 0.516 | 2.052 | 351.3 | 569.4 | 0.993 | 3.111 | 15.01 | 0.494 | 65.3 | 299.9 | 20.8 | 0.327 |
| 4-2700 | 4-3480 | 0.258 | 125.0 | -5.3 | -4.94 | 1.234 | 94.2 | 0.522 | 2.072 | 347.7 | 570.0 | 0.990 | 3.154 | 13.73 | 0.494 | 64.5 | 303.0 | 18.9 | 0.327 |
| 4-2700 | 4-3500 | 0.259 | 132.3 | 0.1 | -3.53 | 1.236 | 95.5 | 0.529 | 2.091 | 344.0 | 570.6 | 0.984 | 3.199 | 12.73 | 0.495 | 63.7 | 306.3 | 17.3 | 0.328 |
| 4-2700 | 4-3520 | 0.265 | 139.5 | 4.4 | -2.32 | 1.238 | 96.8 | 0.537 | 2.111 | 340.4 | 571.0 | 0.977 | 3.244 | 11.93 | 0.495 | 62.8 | 309.7 | 16.0 | 0.330 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2700 | 4-3540 | 0.276 | 146.2 | 7.6 | -1.26 | 1.239 | 98.2 | 0.545 | 2.130 | 336.7 | 571.5 | 0.969 | 3.291 | 11.28 | 0.495 | 62.0 | 313.1 | 14.9 | 0.333 |
| 4-2700 | 4-3560 | 0.291 | 152.5 | 9.9 | -0.31 | 1.241 | 99.6 | 0.554 | 2.149 | 333.0 | 571.9 | 0.959 | 3.339 | 10.77 | 0.496 | 61.1 | 316.7 | 13.9 | 0.337 |
| 4-2700 | 4-3580 | 0.309 | 158.3 | 11.4 | 0.55 | 1.243 | 101.0 | 0.563 | 2.168 | 329.3 | 572.2 | 0.947 | 3.388 | 10.35 | 0.496 | 60.2 | 320.2 | 13.1 | 0.341 |
| 4-2700 | 4-3600 | 0.330 | 163.6 | 12.4 | 1.34 | 1.244 | 102.4 | 0.573 | 2.186 | 325.6 | 572.5 | 0.934 | 3.439 | 10.01 | 0.496 | 59.2 | 323.9 | 12.4 | 0.346 |
| 4-2710 | 4-2870 | 0.647 | 38.3 | 20.8 | 3.07 | 1.298 | 61.8 | 0.760 | 3.059 | 66.7 | 132.2 | --- | --- | -8.96 | 0.656 | 139.0 | 282.7 | -6.7 | 0.574 |
| 4-2710 | 4-2890 | 0.618 | 35.4 | 21.4 | 3.85 | 1.259 | 62.1 | 0.691 | 2.345 | 70.4 | 140.6 | --- | --- | -8.67 | 0.578 | 133.3 | 281.8 | -7.5 | 0.487 |
| 4-2710 | 4-2910 | 0.598 | 33.2 | 22.3 | 4.59 | 1.232 | 62.5 | 0.647 | 2.032 | 73.1 | 147.9 | --- | --- | -8.45 | 0.522 | 127.2 | 280.4 | -8.4 | 0.419 |
| 4-2710 | 4-2930 | 0.583 | 31.6 | 23.3 | 5.30 | 1.215 | 62.9 | 0.617 | 1.868 | 74.7 | 154.3 | --- | --- | -8.29 | 0.482 | 121.1 | 278.5 | -9.4 | 0.366 |
| 4-2710 | 4-2950 | 0.570 | 30.4 | 24.5 | 6.00 | 1.203 | 63.4 | 0.596 | 1.773 | 75.5 | 159.8 | --- | --- | -8.19 | 0.455 | 115.0 | 276.1 | -10.4 | 0.324 |
| 4-2710 | 4-2970 | 0.559 | 29.7 | 25.9 | 6.70 | 1.195 | 63.9 | 0.580 | 1.717 | 75.5 | 164.7 | --- | --- | -8.15 | 0.437 | 109.2 | 273.3 | -11.5 | 0.293 |
| 4-2710 | 4-2990 | 0.550 | 29.1 | 27.5 | 7.39 | 1.191 | 64.5 | 0.568 | 1.685 | 74.9 | 168.9 | --- | --- | -8.17 | 0.427 | 103.8 | 270.2 | -12.6 | 0.270 |
| 4-2710 | 4-3010 | 0.541 | 28.8 | 29.2 | 8.10 | 1.188 | 65.2 | 0.557 | 1.668 | 73.8 | 172.7 | --- | --- | -8.25 | 0.422 | 99.0 | 267.1 | -13.6 | 0.254 |
| 4-2710 | 4-3030 | 0.532 | 28.5 | 31.2 | 8.83 | 1.187 | 65.9 | 0.549 | 1.661 | 72.2 | 176.1 | --- | --- | -8.40 | 0.421 | 94.7 | 264.1 | -14.6 | 0.244 |
| 4-2710 | 4-3050 | 0.524 | 28.4 | 33.4 | 9.60 | 1.187 | 66.7 | 0.541 | 1.662 | 70.4 | 179.2 | --- | --- | -8.61 | 0.423 | 91.0 | 261.6 | -15.4 | 0.238 |
| 4-2710 | 4-3070 | 0.516 | 28.2 | 35.8 | 10.42 | 1.188 | 67.5 | 0.535 | 1.669 | 68.3 | 182.0 | --- | 2.561 | -8.91 | 0.427 | 87.7 | 259.5 | -16.2 | 0.236 |
| 4-2710 | 4-3090 | 0.510 | 27.9 | 38.5 | 11.30 | 1.190 | 68.3 | 0.529 | 1.679 | 65.9 | 184.5 | --- | 2.567 | -9.30 | 0.432 | 85.0 | 258.1 | -17.0 | 0.237 |
| 4-2710 | 4-3110 | 0.505 | 27.5 | 41.4 | 12.26 | 1.192 | 69.3 | 0.524 | 1.692 | 63.3 | 186.9 | --- | 2.578 | -9.80 | 0.437 | 82.5 | 257.4 | -17.8 | 0.241 |
| 4-2710 | 4-3130 | 0.502 | 26.8 | 44.6 | 13.35 | 1.194 | 70.2 | 0.519 | 1.708 | 60.6 | 189.1 | --- | 2.593 | -10.43 | 0.443 | 80.5 | 257.3 | -18.8 | 0.246 |
| 4-2710 | 4-3150 | 0.501 | 25.6 | 48.1 | 14.59 | 1.196 | 71.2 | 0.515 | 1.725 | 57.7 | 191.1 | --- | 2.612 | -11.25 | 0.448 | 78.7 | 257.9 | -19.9 | 0.252 |
| 4-2710 | 4-3170 | 0.505 | 23.6 | 52.0 | 16.05 | 1.199 | 72.1 | 0.511 | 1.743 | 54.7 | 193.0 | --- | 2.634 | -12.29 | 0.454 | 77.1 | 259.0 | -21.2 | 0.261 |
| 4-2710 | 4-3190 | 0.514 | 20.3 | 56.0 | 17.80 | 1.202 | 73.1 | 0.508 | 1.763 | 51.7 | 194.8 | --- | 2.658 | -13.65 | 0.459 | 75.7 | 260.6 | -22.8 | 0.271 |
| 4-2710 | 4-3210 | 0.532 | 14.9 | 60.2 | 19.99 | 1.204 | 74.2 | 0.505 | 1.783 | 48.5 | 196.4 | --- | 2.684 | -15.46 | 0.464 | 74.5 | 262.8 | -24.9 | 0.284 |
| 4-2710 | 4-3230 | 0.561 | 6.0 | 64.0 | 22.83 | 1.207 | 75.2 | 0.504 | 1.804 | 45.4 | 197.9 | --- | 2.712 | -17.92 | 0.468 | 73.4 | 265.6 | -27.4 | 0.300 |
| 4-2710 | 4-3250 | 0.611 | 352.0 | 66.5 | 26.69 | 1.210 | 76.2 | 0.502 | 1.825 | 42.2 | 199.4 | --- | 2.742 | -21.42 | 0.472 | 72.4 | 269.2 | -30.6 | 0.323 |
| 4-2710 | 4-3270 | 0.693 | 333.5 | 66.3 | 32.29 | 1.212 | 77.2 | 0.502 | 1.847 | 39.1 | 200.7 | --- | 2.773 | -26.67 | 0.476 | 71.5 | 273.9 | -34.4 | 0.359 |
| 4-2710 | 4-3290 | 0.832 | 316.3 | 61.6 | 41.05 | 1.215 | 78.1 | 0.502 | 1.868 | 36.3 | 202.0 | --- | 2.807 | -35.09 | 0.479 | 70.6 | 280.5 | -38.5 | 0.418 |
| 4-2710 | 4-3310 | 1.074 | 305.6 | 51.6 | 55.90 | 1.217 | 78.8 | 0.504 | 1.890 | 33.9 | 203.2 | --- | 2.842 | -49.59 | 0.482 | 69.7 | 290.3 | -41.1 | 0.524 |
| 4-2710 | 4-3370 | 0.836 | 62.5 | -66.0 | -42.28 | 1.225 | 85.1 | 0.497 | 1.955 | 14.9 | 205.7 | --- | 2.927 | 49.59 | 0.488 | 68.7 | 301.4 | 41.4 | 0.524 |
| 4-2710 | 4-3390 | 0.587 | 81.2 | -54.5 | -27.88 | 1.227 | 85.8 | 0.501 | 1.977 | 12.5 | 206.6 | --- | 2.967 | 35.52 | 0.490 | 67.9 | 297.4 | 38.0 | 0.428 |
| 4-2710 | 4-3410 | 0.442 | 90.8 | -43.4 | -19.35 | 1.229 | 86.8 | 0.504 | 1.998 | 9.5 | 207.5 | --- | 3.006 | 27.32 | 0.491 | 67.2 | 296.6 | 33.2 | 0.379 |
| 4-2710 | 4-3430 | 0.356 | 98.3 | -33.0 | -13.88 | 1.231 | 87.9 | 0.508 | 2.019 | 6.2 | 208.2 | --- | 3.046 | 22.18 | 0.492 | 66.5 | 297.6 | 28.8 | 0.353 |
| 4-2710 | 4-3450 | 0.303 | 105.5 | -23.3 | -10.11 | 1.233 | 89.1 | 0.513 | 2.040 | 2.8 | 209.0 | --- | 3.086 | 18.73 | 0.493 | 65.8 | 299.6 | 25.1 | 0.340 |
| 4-2710 | 4-3470 | 0.271 | 112.9 | -14.3 | -7.33 | 1.235 | 90.3 | 0.517 | 2.061 | 359.2 | 569.6 | 0.995 | 3.127 | 16.28 | 0.494 | 65.1 | 302.2 | 22.2 | 0.333 |
| 4-2710 | 4-3490 | 0.253 | 120.6 | -6.4 | -5.20 | 1.237 | 91.5 | 0.523 | 2.081 | 355.7 | 570.2 | 0.994 | 3.169 | 14.48 | 0.494 | 64.4 | 305.1 | 19.8 | 0.329 |
| 4-2710 | 4-3510 | 0.246 | 128.6 | 0.3 | -3.49 | 1.239 | 92.7 | 0.528 | 2.101 | 352.1 | 570.8 | 0.991 | 3.211 | 13.11 | 0.495 | 63.7 | 308.2 | 17.8 | 0.328 |
| 4-2710 | 4-3530 | 0.246 | 136.6 | 5.6 | -2.08 | 1.241 | 94.0 | 0.534 | 2.121 | 348.5 | 571.3 | 0.988 | 3.255 | 12.04 | 0.495 | 62.9 | 311.5 | 16.3 | 0.329 |
| 4-2710 | 4-3550 | 0.253 | 144.4 | 9.6 | -0.89 | 1.243 | 95.3 | 0.541 | 2.141 | 344.8 | 571.7 | 0.982 | 3.300 | 11.19 | 0.496 | 62.2 | 314.9 | 14.9 | 0.330 |
| 4-2710 | 4-3570 | 0.264 | 151.7 | 12.3 | 0.14 | 1.244 | 96.6 | 0.548 | 2.161 | 341.2 | 572.1 | 0.976 | 3.345 | 10.52 | 0.496 | 61.4 | 318.4 | 13.8 | 0.333 |
| 4-2710 | 4-3590 | 0.278 | 158.5 | 14.1 | 1.05 | 1.246 | 98.0 | 0.556 | 2.180 | 337.5 | 572.5 | 0.968 | 3.392 | 9.97 | 0.497 | 60.6 | 321.9 | 12.9 | 0.335 |
| 4-2710 | 4-3610 | 0.295 | 164.6 | 15.0 | 1.87 | 1.247 | 99.4 | 0.564 | 2.199 | 333.9 | 572.9 | 0.958 | 3.440 | 9.52 | 0.497 | 59.8 | 325.5 | 12.1 | 0.339 |
| 4-2720 | 4-2880 | 0.744 | 38.8 | 20.8 | 3.79 | 1.272 | 55.2 | 0.756 | 2.508 | 83.7 | 141.6 | --- | --- | -8.10 | 0.600 | 139.1 | 279.7 | -5.8 | 0.549 |
| 4-2720 | 4-2900 | 0.712 | 36.9 | 21.5 | 4.54 | 1.238 | 56.0 | 0.706 | 2.069 | 86.3 | 148.9 | --- | --- | -7.72 | 0.529 | 132.7 | 278.4 | -6.4 | 0.468 |
| 4-2720 | 4-2920 | 0.688 | 35.6 | 22.4 | 5.23 | 1.216 | 56.8 | 0.673 | 1.859 | 87.8 | 155.1 | --- | --- | -7.43 | 0.478 | 126.0 | 276.5 | -7.1 | 0.405 |
| 4-2720 | 4-2940 | 0.668 | 34.8 | 23.4 | 5.89 | 1.201 | 57.5 | 0.649 | 1.746 | 88.4 | 160.4 | --- | --- | -7.20 | 0.443 | 119.2 | 274.2 | -7.8 | 0.357 |
| 4-2720 | 4-2960 | 0.652 | 34.3 | 24.5 | 6.51 | 1.192 | 58.3 | 0.631 | 1.681 | 88.2 | 165.0 | --- | --- | -7.03 | 0.421 | 112.7 | 271.5 | -8.5 | 0.320 |
| 4-2720 | 4-2980 | 0.637 | 34.1 | 25.8 | 7.12 | 1.187 | 59.1 | 0.616 | 1.644 | 87.3 | 169.1 | --- | --- | -6.92 | 0.408 | 106.5 | 268.5 | -9.3 | 0.293 |
| 4-2720 | 4-3000 | 0.623 | 34.1 | 27.2 | 7.71 | 1.184 | 60.0 | 0.604 | 1.625 | 86.1 | 172.7 | --- | --- | -6.86 | 0.402 | 100.9 | 265.5 | -9.9 | 0.274 |
| 4-2720 | 4-3020 | 0.609 | 34.3 | 28.7 | 8.30 | 1.183 | 60.9 | 0.593 | 1.619 | 84.4 | 175.9 | --- | --- | -6.85 | 0.401 | 95.9 | 262.7 | -10.5 | 0.261 |
| 4-2720 | 4-3040 | 0.597 | 34.5 | 30.4 | 8.90 | 1.183 | 61.8 | 0.583 | 1.620 | 82.4 | 178.8 | --- | --- | -6.89 | 0.403 | 91.6 | 260.2 | -11.0 | 0.253 |
| 4-2720 | 4-3060 | 0.584 | 34.8 | 32.3 | 9.50 | 1.184 | 62.7 | 0.575 | 1.627 | 80.1 | 181.5 | --- | 2.562 | -6.99 | 0.408 | 88.0 | 258.2 | -11.5 | 0.248 |
| 4-2720 | 4-3080 | 0.572 | 35.2 | 34.3 | 10.14 | 1.186 | 63.7 | 0.567 | 1.638 | 77.6 | 184.0 | --- | 2.566 | -7.14 | 0.414 | 84.8 | 256.9 | -12.0 | 0.247 |
| 4-2720 | 4-3100 | 0.561 | 35.6 | 36.5 | 10.80 | 1.188 | 64.8 | 0.559 | 1.653 | 74.9 | 186.2 | --- | 2.577 | -7.35 | 0.421 | 82.2 | 256.1 | -12.4 | 0.248 |
| 4-2720 | 4-3120 | 0.550 | 35.9 | 38.8 | 11.52 | 1.191 | 65.8 | 0.552 | 1.670 | 72.1 | 188.4 | --- | 2.592 | -7.64 | 0.428 | 79.9 | 255.9 | -12.9 | 0.250 |
| 4-2720 | 4-3140 | 0.541 | 36.1 | 41.5 | 12.29 | 1.193 | 66.9 | 0.546 | 1.688 | 69.1 | 190.4 | --- | 2.610 | -8.02 | 0.435 | 78.0 | 256.4 | -13.5 | 0.254 |
| 4-2720 | 4-3160 | 0.533 | 36.2 | 44.3 | 13.15 | 1.196 | 67.9 | 0.540 | 1.708 | 66.1 | 192.2 | --- | 2.631 | -8.49 | 0.441 | 76.4 | 257.3 | -14.2 | 0.259 |
| 4-2720 | 4-3180 | 0.527 | 36.0 | 47.5 | 14.12 | 1.199 | 69.0 | 0.535 | 1.729 | 62.9 | 193.9 | --- | 2.655 | -9.10 | 0.448 | 75.0 | 258.7 | -15.0 | 0.264 |
| 4-2720 | 4-3200 | 0.524 | 35.3 | 51.0 | 15.24 | 1.202 | 70.2 | 0.531 | 1.751 | 59.6 | 195.5 | --- | 2.680 | -9.87 | 0.454 | 73.8 | 260.5 | -16.0 | 0.270 |
| 4-2720 | 4-3220 | 0.524 | 33.9 | 54.8 | 16.58 | 1.205 | 71.3 | 0.527 | 1.774 | 56.3 | 197.1 | --- | 2.707 | -10.87 | 0.459 | 72.7 | 262.6 | -17.3 | 0.278 |
| 4-2720 | 4-3240 | 0.530 | 31.3 | 58.9 | 18.21 | 1.208 | 72.4 | 0.523 | 1.796 | 52.9 | 198.5 | --- | 2.736 | -12.17 | 0.464 | 71.8 | 265.2 | -19.0 | 0.286 |
| 4-2720 | 4-3260 | 0.545 | 26.4 | 63.1 | 20.27 | 1.211 | 73.5 | 0.520 | 1.819 | 49.5 | 199.8 | --- | 2.766 | -13.93 | 0.469 | 70.9 | 268.1 | -21.1 | 0.296 |
| 4-2720 | 4-3280 | 0.572 | 17.3 | 67.2 | 23.01 | 1.214 | 74.6 | 0.518 | 1.842 | 46.1 | 201.1 | --- | 2.797 | -16.36 | 0.473 | 70.2 | 271.4 | -23.8 | 0.310 |
| 4-2720 | 4-3300 | 0.620 | 1.5 | 70.1 | 26.86 | 1.217 | 75.7 | 0.516 | 1.866 | 42.8 | 202.3 | --- | 2.829 | -19.91 | 0.477 | 69.5 | 275.5 | -27.4 | 0.331 |
| 4-2720 | 4-3320 | 0.705 | 339.2 | 69.6 | 32.67 | 1.219 | 76.8 | 0.516 | 1.889 | 39.5 | 203.4 | --- | 2.863 | -25.43 | 0.480 | 68.8 | 280.7 | -31.9 | 0.364 |
| 4-2720 | 4-3340 | 0.859 | 319.7 | 63.7 | 42.36 | 1.222 | 77.8 | 0.516 | 1.912 | 36.5 | 204.4 | --- | 2.898 | -34.84 | 0.483 | 68.1 | 288.2 | -37.0 | 0.425 |
| 4-2720 | 4-3360 | 1.151 | 310.1 | 51.2 | 60.29 | 1.225 | 78.5 | 0.517 | 1.935 | 34.1 | 205.4 | --- | 2.936 | -52.49 | 0.485 | 67.4 | 300.0 | -40.3 | 0.549 |
| 4-2720 | 4-3400 | 1.015 | 45.6 | -66.4 | -52.42 | 1.229 | 83.7 | 0.508 | 1.980 | 18.9 | 206.8 | --- | 2.986 | 60.77 | 0.489 | 67.3 | 311.7 | 40.5 | 0.605 |
| 4-2720 | 4-3420 | 0.647 | 78.0 | -55.1 | -30.97 | 1.232 | 84.3 | 0.512 | 2.002 | 16.8 | 207.6 | --- | 3.027 | 39.59 | 0.490 | 66.5 | 304.7 | 38.6 | 0.459 |
| 4-2720 | 4-3440 | 0.454 | 91.5 | -41.8 | -19.58 | 1.234 | 85.3 | 0.515 | 2.025 | 13.9 | 208.4 | --- | 3.067 | 28.47 | 0.491 | 65.9 | 302.3 | 33.2 | 0.391 |
| 4-2720 | 4-3460 | 0.350 | 100.3 | -29.2 | -12.96 | 1.236 | 86.4 | 0.518 | 2.046 | 10.6 | 209.1 | --- | 3.107 | 22.11 | 0.493 | 65.3 | 302.8 | 28.0 | 0.359 |
| 4-2720 | 4-3480 | 0.293 | 108.1 | -17.7 | -8.69 | 1.238 | 87.5 | 0.522 | 2.068 | 7.2 | 209.8 | --- | 3.146 | 18.12 | 0.493 | 64.7 | 304.7 | 23.9 | 0.342 |
| 4-2720 | 4-3500 | 0.261 | 116.1 | -7.5 | -5.72 | 1.240 | 88.7 | 0.525 | 2.089 | 3.7 | 210.4 | --- | 3.187 | 15.41 | 0.494 | 64.1 | 307.3 | 20.7 | 0.334 |
| 4-2720 | 4-3520 | 0.244 | 124.3 | 1.1 | -3.51 | 1.242 | 90.0 | 0.530 | 2.110 | 0.1 | 210.9 | --- | 3.228 | 13.48 | 0.495 | 63.5 | 310.2 | 18.2 | 0.330 |
| 4-2720 | 4-3540 | 0.238 | 132.8 | 7.8 | -1.80 | 1.244 | 91.2 | 0.535 | 2.131 | 356.6 | 571.4 | 0.991 | 3.270 | 12.04 | 0.496 | 62.8 | 313.4 | 16.3 | 0.329 |
| 4-2720 | 4-3560 | 0.240 | 141.3 | 12.8 | -0.43 | 1.246 | 92.5 | 0.540 | 2.151 | 353.0 | 571.9 | 0.989 | 3.312 | 10.94 | 0.496 | 62.2 | 316.7 | 14.7 | 0.328 |
| 4-2720 | 4-3580 | 0.246 | 149.6 | 16.2 | 0.72 | 1.247 | 93.7 | 0.546 | 2.171 | 349.4 | 572.4 | 0.986 | 3.356 | 10.07 | 0.497 | 61.5 | 320.1 | 13.4 | 0.329 |
| 4-2720 | 4-3600 | 0.257 | 157.4 | 18.3 | 1.69 | 1.249 | 95.1 | 0.552 | 2.191 | 345.8 | 572.8 | 0.981 | 3.400 | 9.38 | 0.497 | 60.8 | 323.5 | 12.3 | 0.331 |
| 4-2720 | 4-3620 | 0.270 | 164.5 | 19.3 | 2.53 | 1.251 | 96.4 | 0.559 | 2.210 | 342.2 | 573.2 | 0.975 | 3.445 | 8.83 | 0.498 | 60.1 | 327.1 | 11.5 | 0.333 |
| 4-2730 | 4-2870 | 0.899 | 42.3 | 20.6 | 3.91 | 1.293 | 47.1 | 0.832 | 2.854 | 97.9 | 143.4 | --- | --- | -7.49 | 0.638 | 146.2 | 277.5 | -4.2 | 0.634 |
| 4-2730 | 4-2890 | 0.848 | 40.8 | 21.3 | 4.71 | 1.247 | 48.4 | 0.777 | 2.150 | 100.2 | 150.4 | --- | --- | -6.96 | 0.544 | 139.8 | 276.2 | -4.6 | 0.534 |
| 4-2730 | 4-2910 | 0.811 | 39.8 | 22.0 | 5.42 | 1.219 | 49.7 | 0.739 | 1.864 | 101.4 | 156.3 | --- | --- | -6.53 | 0.477 | 132.6 | 274.3 | -5.0 | 0.458 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2730 | 4-2930 | 0.782 | 39.2 | 22.9 | 6.05 | 1.200 | 50.8 | 0.712 | 1.720 | 101.6 | 161.3 | --- | --- | -6.19 | 0.432 | 125.1 | 272.1 | -5.4 | 0.401 |
| 4-2730 | 4-2950 | 0.758 | 39.0 | 23.9 | 6.62 | 1.188 | 52.0 | 0.691 | 1.642 | 101.1 | 165.6 | --- | --- | -5.92 | 0.402 | 117.5 | 269.5 | -5.9 | 0.357 |
| 4-2730 | 4-2970 | 0.736 | 39.1 | 25.0 | 7.16 | 1.182 | 53.1 | 0.674 | 1.600 | 100.0 | 169.4 | --- | --- | -5.70 | 0.385 | 110.2 | 266.7 | -6.3 | 0.325 |
| 4-2730 | 4-2990 | 0.717 | 39.3 | 26.1 | 7.67 | 1.178 | 54.2 | 0.659 | 1.578 | 98.5 | 172.7 | --- | --- | -5.55 | 0.377 | 103.6 | 263.8 | -6.7 | 0.301 |
| 4-2730 | 4-3010 | 0.699 | 39.8 | 27.4 | 8.15 | 1.177 | 55.3 | 0.646 | 1.570 | 96.6 | 175.7 | --- | --- | -5.43 | 0.376 | 97.7 | 261.2 | -7.1 | 0.285 |
| 4-2730 | 4-3030 | 0.682 | 40.3 | 28.7 | 8.62 | 1.177 | 56.4 | 0.634 | 1.572 | 94.4 | 178.5 | --- | --- | -5.37 | 0.378 | 92.6 | 258.8 | -7.4 | 0.274 |
| 4-2730 | 4-3050 | 0.665 | 40.9 | 30.2 | 9.09 | 1.178 | 57.5 | 0.622 | 1.580 | 92.0 | 181.0 | --- | 2.563 | -5.34 | 0.384 | 88.3 | 256.9 | -7.7 | 0.268 |
| 4-2730 | 4-3070 | 0.649 | 41.6 | 31.7 | 9.55 | 1.180 | 58.7 | 0.612 | 1.592 | 89.4 | 183.4 | --- | 2.566 | -5.35 | 0.392 | 84.7 | 255.6 | -7.9 | 0.264 |
| 4-2730 | 4-3090 | 0.633 | 42.4 | 33.4 | 10.02 | 1.183 | 59.9 | 0.602 | 1.608 | 86.6 | 185.6 | --- | 2.576 | -5.40 | 0.400 | 81.7 | 254.9 | -8.1 | 0.263 |
| 4-2730 | 4-3110 | 0.617 | 43.2 | 35.2 | 10.51 | 1.186 | 61.0 | 0.593 | 1.626 | 83.7 | 187.6 | --- | 2.590 | -5.50 | 0.409 | 79.2 | 254.7 | -8.4 | 0.264 |
| 4-2730 | 4-3130 | 0.602 | 44.0 | 37.1 | 11.01 | 1.189 | 62.2 | 0.585 | 1.646 | 80.6 | 189.5 | --- | 2.609 | -5.64 | 0.417 | 77.1 | 255.1 | -8.7 | 0.266 |
| 4-2730 | 4-3150 | 0.588 | 44.9 | 39.2 | 11.55 | 1.192 | 63.4 | 0.577 | 1.668 | 77.5 | 191.3 | --- | 2.630 | -5.84 | 0.426 | 75.4 | 256.0 | -9.0 | 0.268 |
| 4-2730 | 4-3170 | 0.574 | 45.7 | 41.5 | 12.12 | 1.196 | 64.6 | 0.569 | 1.691 | 74.2 | 193.0 | --- | 2.653 | -6.09 | 0.434 | 73.9 | 257.2 | -9.4 | 0.272 |
| 4-2730 | 4-3190 | 0.562 | 46.5 | 44.0 | 12.76 | 1.199 | 65.8 | 0.563 | 1.714 | 70.9 | 194.6 | --- | 2.678 | -6.42 | 0.441 | 72.7 | 258.9 | -9.8 | 0.275 |
| 4-2730 | 4-3210 | 0.551 | 47.1 | 46.7 | 13.46 | 1.202 | 67.0 | 0.556 | 1.738 | 67.5 | 196.1 | --- | 2.705 | -6.84 | 0.448 | 71.6 | 260.9 | -10.4 | 0.279 |
| 4-2730 | 4-3230 | 0.542 | 47.6 | 49.7 | 14.27 | 1.206 | 68.2 | 0.551 | 1.762 | 64.1 | 197.6 | --- | 2.733 | -7.37 | 0.454 | 70.7 | 263.1 | -11.2 | 0.283 |
| 4-2730 | 4-3250 | 0.535 | 47.8 | 53.0 | 15.21 | 1.209 | 69.5 | 0.546 | 1.787 | 60.6 | 198.9 | --- | 2.762 | -8.04 | 0.460 | 69.9 | 265.7 | -12.1 | 0.288 |
| 4-2730 | 4-3270 | 0.532 | 47.5 | 56.6 | 16.33 | 1.212 | 70.7 | 0.541 | 1.812 | 57.0 | 200.2 | --- | 2.792 | -8.92 | 0.465 | 69.2 | 268.4 | -13.3 | 0.293 |
| 4-2730 | 4-3290 | 0.534 | 46.2 | 60.7 | 17.73 | 1.215 | 71.9 | 0.537 | 1.836 | 53.5 | 201.3 | --- | 2.823 | -10.07 | 0.469 | 68.6 | 271.4 | -14.8 | 0.299 |
| 4-2730 | 4-3310 | 0.543 | 43.1 | 65.1 | 19.53 | 1.218 | 73.1 | 0.534 | 1.861 | 49.9 | 202.5 | --- | 2.856 | -11.63 | 0.473 | 68.0 | 274.7 | -16.8 | 0.306 |
| 4-2730 | 4-3330 | 0.564 | 35.8 | 69.7 | 21.98 | 1.221 | 74.3 | 0.532 | 1.886 | 46.4 | 203.5 | --- | 2.888 | -13.85 | 0.477 | 67.5 | 278.3 | -19.5 | 0.316 |
| 4-2730 | 4-3350 | 0.606 | 19.8 | 73.7 | 25.53 | 1.224 | 75.4 | 0.530 | 1.910 | 42.9 | 204.5 | --- | 2.922 | -17.17 | 0.480 | 67.0 | 282.4 | -23.2 | 0.332 |
| 4-2730 | 4-3370 | 0.686 | 350.8 | 74.4 | 31.17 | 1.226 | 76.6 | 0.529 | 1.934 | 39.4 | 205.4 | --- | 2.957 | -22.60 | 0.483 | 66.5 | 287.6 | -28.2 | 0.359 |
| 4-2730 | 4-3390 | 0.848 | 324.7 | 67.8 | 41.39 | 1.229 | 77.6 | 0.529 | 1.958 | 36.3 | 206.3 | --- | 2.993 | -32.61 | 0.485 | 66.0 | 295.4 | -34.8 | 0.418 |
| 4-2730 | 4-3410 | 1.201 | 315.4 | 52.2 | 63.13 | 1.232 | 78.4 | 0.530 | 1.982 | 33.8 | 207.2 | --- | 3.032 | -54.13 | 0.487 | 65.4 | 309.6 | -39.6 | 0.562 |
| 4-2730 | 4-3450 | 0.765 | 70.9 | -57.0 | -37.45 | 1.236 | 82.8 | 0.523 | 2.028 | 21.2 | 208.5 | --- | 3.090 | 46.86 | 0.490 | 65.2 | 313.7 | 39.5 | 0.511 |
| 4-2730 | 4-3470 | 0.473 | 92.6 | -40.4 | -20.17 | 1.238 | 83.7 | 0.526 | 2.051 | 18.4 | 209.2 | --- | 3.130 | 29.79 | 0.492 | 64.6 | 308.2 | 33.2 | 0.403 |
| 4-2730 | 4-3490 | 0.344 | 103.4 | -24.1 | -11.68 | 1.241 | 84.8 | 0.528 | 2.073 | 15.2 | 209.9 | --- | 3.169 | 21.50 | 0.493 | 64.1 | 307.9 | 26.8 | 0.361 |
| 4-2730 | 4-3510 | 0.283 | 112.1 | -9.7 | -6.80 | 1.243 | 85.9 | 0.531 | 2.095 | 11.7 | 210.5 | --- | 3.208 | 16.83 | 0.494 | 63.6 | 309.6 | 22.0 | 0.342 |
| 4-2730 | 4-3530 | 0.255 | 120.4 | 2.0 | -3.65 | 1.245 | 87.1 | 0.534 | 2.117 | 8.2 | 211.0 | --- | 3.248 | 13.88 | 0.494 | 63.1 | 312.2 | 18.5 | 0.334 |
| 4-2730 | 4-3550 | 0.242 | 129.1 | 11.0 | -1.44 | 1.246 | 88.4 | 0.538 | 2.138 | 4.7 | 211.6 | --- | 3.288 | 11.87 | 0.495 | 62.5 | 315.2 | 15.9 | 0.329 |
| 4-2730 | 4-3570 | 0.239 | 137.9 | 17.4 | 0.22 | 1.248 | 89.6 | 0.542 | 2.159 | 1.1 | 212.1 | --- | 3.329 | 10.42 | 0.496 | 62.0 | 318.4 | 14.0 | 0.328 |
| 4-2730 | 4-3590 | 0.241 | 146.7 | 21.7 | 1.51 | 1.250 | 90.9 | 0.546 | 2.180 | 357.6 | 572.5 | 0.989 | 3.371 | 9.34 | 0.497 | 61.4 | 321.8 | 12.5 | 0.327 |
| 4-2730 | 4-3610 | 0.248 | 155.3 | 24.2 | 2.55 | 1.252 | 92.1 | 0.551 | 2.200 | 354.0 | 573.0 | 0.988 | 3.413 | 8.50 | 0.497 | 60.8 | 325.2 | 11.3 | 0.328 |
| 4-2730 | 4-3630 | 0.257 | 163.4 | 25.4 | 3.42 | 1.253 | 93.4 | 0.556 | 2.220 | 350.4 | 573.4 | 0.985 | 3.456 | 7.85 | 0.498 | 60.2 | 328.7 | 10.3 | 0.329 |
| 4-2740 | 4-2880 | 1.013 | 44.6 | 21.3 | 5.24 | 1.265 | 39.5 | 0.856 | 2.354 | 115.0 | 152.7 | --- | --- | -5.97 | 0.578 | 148.6 | 274.0 | -2.9 | 0.625 |
| 4-2740 | 4-2900 | 0.956 | 43.9 | 22.0 | 5.97 | 1.225 | 41.4 | 0.815 | 1.906 | 115.5 | 158.0 | --- | --- | -5.41 | 0.488 | 141.3 | 272.2 | -3.1 | 0.531 |
| 4-2740 | 4-2920 | 0.913 | 43.6 | 22.8 | 6.58 | 1.200 | 43.1 | 0.785 | 1.709 | 115.3 | 162.5 | --- | --- | -4.98 | 0.426 | 133.2 | 270.1 | -3.4 | 0.460 |
| 4-2740 | 4-2940 | 0.879 | 43.7 | 23.7 | 7.11 | 1.185 | 44.7 | 0.761 | 1.609 | 114.3 | 166.4 | --- | --- | -4.64 | 0.384 | 124.5 | 267.6 | -3.6 | 0.407 |
| 4-2740 | 4-2960 | 0.849 | 44.0 | 24.7 | 7.58 | 1.176 | 46.2 | 0.740 | 1.556 | 112.9 | 169.8 | --- | --- | -4.36 | 0.360 | 115.8 | 265.0 | -3.8 | 0.367 |
| 4-2740 | 4-2980 | 0.823 | 44.5 | 25.7 | 8.00 | 1.171 | 47.7 | 0.722 | 1.530 | 111.0 | 172.8 | --- | --- | -4.15 | 0.348 | 107.7 | 262.3 | -4.1 | 0.338 |
| 4-2740 | 4-3000 | 0.800 | 45.1 | 26.7 | 8.39 | 1.169 | 49.1 | 0.706 | 1.520 | 108.9 | 175.6 | --- | --- | -3.98 | 0.345 | 100.4 | 259.8 | -4.2 | 0.318 |
| 4-2740 | 4-3020 | 0.777 | 45.9 | 27.9 | 8.75 | 1.170 | 50.5 | 0.692 | 1.520 | 106.5 | 178.1 | --- | --- | -3.85 | 0.348 | 94.2 | 257.6 | -4.4 | 0.304 |
| 4-2740 | 4-3040 | 0.756 | 46.7 | 29.1 | 9.09 | 1.171 | 51.8 | 0.678 | 1.528 | 103.9 | 180.5 | --- | 2.564 | -3.76 | 0.355 | 89.0 | 255.8 | -4.5 | 0.294 |
| 4-2740 | 4-3060 | 0.736 | 47.7 | 30.3 | 9.42 | 1.173 | 53.2 | 0.665 | 1.541 | 101.2 | 182.7 | --- | 2.566 | -3.69 | 0.364 | 84.7 | 254.6 | -4.6 | 0.288 |
| 4-2740 | 4-3080 | 0.716 | 48.7 | 31.6 | 9.74 | 1.176 | 54.5 | 0.653 | 1.558 | 98.3 | 184.8 | --- | 2.575 | -3.66 | 0.374 | 81.1 | 253.9 | -4.7 | 0.285 |
| 4-2740 | 4-3100 | 0.696 | 49.8 | 33.0 | 10.06 | 1.180 | 55.9 | 0.641 | 1.578 | 95.3 | 186.8 | --- | 2.589 | -3.66 | 0.385 | 78.3 | 253.7 | -4.8 | 0.284 |
| 4-2740 | 4-3120 | 0.677 | 50.9 | 34.5 | 10.38 | 1.183 | 57.2 | 0.630 | 1.599 | 92.1 | 188.6 | --- | 2.607 | -3.68 | 0.396 | 76.0 | 254.1 | -5.0 | 0.285 |
| 4-2740 | 4-3140 | 0.659 | 52.1 | 36.0 | 10.71 | 1.187 | 58.5 | 0.620 | 1.623 | 88.9 | 190.4 | --- | 2.628 | -3.73 | 0.406 | 74.0 | 254.9 | -5.1 | 0.286 |
| 4-2740 | 4-3160 | 0.641 | 53.4 | 37.7 | 11.04 | 1.191 | 59.8 | 0.610 | 1.647 | 85.6 | 192.0 | --- | 2.651 | -3.81 | 0.416 | 72.5 | 256.1 | -5.3 | 0.287 |
| 4-2740 | 4-3180 | 0.623 | 54.6 | 39.4 | 11.40 | 1.195 | 61.2 | 0.601 | 1.672 | 82.2 | 193.6 | --- | 2.677 | -3.93 | 0.425 | 71.2 | 257.7 | -5.5 | 0.289 |
| 4-2740 | 4-3200 | 0.606 | 56.0 | 41.3 | 11.78 | 1.199 | 62.5 | 0.593 | 1.697 | 78.8 | 195.1 | --- | 2.703 | -4.08 | 0.433 | 70.1 | 259.6 | -5.7 | 0.292 |
| 4-2740 | 4-3220 | 0.590 | 57.3 | 43.3 | 12.18 | 1.202 | 63.8 | 0.585 | 1.723 | 75.3 | 196.5 | --- | 2.731 | -4.28 | 0.441 | 69.3 | 261.8 | -6.0 | 0.294 |
| 4-2740 | 4-3240 | 0.574 | 58.7 | 45.5 | 12.64 | 1.206 | 65.1 | 0.578 | 1.750 | 71.8 | 197.9 | --- | 2.760 | -4.53 | 0.448 | 68.5 | 264.2 | -6.4 | 0.296 |
| 4-2740 | 4-3260 | 0.560 | 60.1 | 47.9 | 13.14 | 1.209 | 66.4 | 0.571 | 1.776 | 68.2 | 199.1 | --- | 2.790 | -4.84 | 0.454 | 67.9 | 266.8 | -6.8 | 0.299 |
| 4-2740 | 4-3280 | 0.547 | 61.5 | 50.6 | 13.73 | 1.213 | 67.7 | 0.565 | 1.802 | 64.6 | 200.4 | --- | 2.821 | -5.24 | 0.460 | 67.3 | 269.6 | -7.4 | 0.301 |
| 4-2740 | 4-3300 | 0.537 | 62.8 | 53.5 | 14.41 | 1.216 | 68.9 | 0.560 | 1.829 | 61.0 | 201.5 | --- | 2.852 | -5.75 | 0.465 | 66.8 | 272.5 | -8.1 | 0.304 |
| 4-2740 | 4-3320 | 0.529 | 64.0 | 56.7 | 15.25 | 1.219 | 70.2 | 0.555 | 1.855 | 57.3 | 202.6 | --- | 2.885 | -6.42 | 0.470 | 66.4 | 275.6 | -9.0 | 0.306 |
| 4-2740 | 4-3340 | 0.524 | 64.8 | 60.4 | 16.29 | 1.222 | 71.5 | 0.551 | 1.881 | 53.7 | 203.6 | --- | 2.917 | -7.30 | 0.473 | 66.0 | 278.8 | -10.2 | 0.310 |
| 4-2740 | 4-3360 | 0.526 | 64.8 | 64.6 | 17.66 | 1.225 | 72.7 | 0.548 | 1.907 | 50.0 | 204.5 | --- | 2.951 | -8.52 | 0.477 | 65.6 | 282.2 | -11.8 | 0.313 |
| 4-2740 | 4-3380 | 0.537 | 62.7 | 69.5 | 19.56 | 1.228 | 74.0 | 0.545 | 1.932 | 46.4 | 205.4 | --- | 2.985 | -10.26 | 0.480 | 65.3 | 285.8 | -14.1 | 0.319 |
| 4-2740 | 4-3400 | 0.565 | 54.5 | 75.1 | 22.41 | 1.231 | 75.2 | 0.543 | 1.957 | 42.8 | 206.3 | --- | 3.019 | -12.97 | 0.483 | 64.9 | 289.7 | -17.4 | 0.328 |
| 4-2740 | 4-3420 | 0.627 | 24.4 | 79.7 | 27.20 | 1.233 | 76.4 | 0.541 | 1.982 | 39.3 | 207.1 | --- | 3.055 | -17.61 | 0.485 | 64.5 | 294.4 | -22.5 | 0.346 |
| 4-2740 | 4-3440 | 0.777 | 333.6 | 75.2 | 36.87 | 1.236 | 77.6 | 0.541 | 2.006 | 35.9 | 207.9 | --- | 3.091 | -27.13 | 0.487 | 64.2 | 301.6 | -30.5 | 0.393 |
| 4-2740 | 4-3460 | 1.201 | 320.7 | 55.5 | 62.82 | 1.238 | 78.5 | 0.542 | 2.030 | 33.2 | 208.6 | --- | 3.130 | -52.95 | 0.489 | 63.7 | 318.0 | -39.0 | 0.555 |
| 4-2740 | 4-3480 | 1.096 | 46.5 | -58.7 | -56.61 | 1.240 | 81.3 | 0.535 | 2.054 | 25.2 | 209.2 | --- | 3.153 | 66.62 | 0.490 | 63.9 | 328.4 | 38.8 | 0.644 |
| 4-2740 | 4-3500 | 0.509 | 93.3 | -40.4 | -21.79 | 1.243 | 82.0 | 0.538 | 2.077 | 23.0 | 209.9 | --- | 3.194 | 31.95 | 0.491 | 63.3 | 314.5 | 33.6 | 0.420 |
| 4-2740 | 4-3520 | 0.333 | 108.1 | -16.5 | -9.67 | 1.245 | 83.1 | 0.539 | 2.100 | 19.7 | 210.5 | --- | 3.233 | 19.96 | 0.493 | 62.9 | 312.6 | 24.6 | 0.359 |
| 4-2740 | 4-3540 | 0.277 | 117.8 | 2.2 | -4.05 | 1.247 | 84.3 | 0.541 | 2.122 | 16.3 | 211.1 | --- | 3.271 | 14.47 | 0.494 | 62.5 | 314.3 | 18.8 | 0.339 |
| 4-2740 | 4-3560 | 0.257 | 126.6 | 15.1 | -0.83 | 1.249 | 85.5 | 0.544 | 2.145 | 12.8 | 211.6 | --- | 3.310 | 11.39 | 0.495 | 62.0 | 317.0 | 15.1 | 0.331 |
| 4-2740 | 4-3580 | 0.251 | 135.4 | 23.5 | 1.26 | 1.251 | 86.7 | 0.546 | 2.166 | 9.3 | 212.1 | --- | 3.350 | 9.44 | 0.496 | 61.6 | 320.1 | 12.6 | 0.327 |
| 4-2740 | 4-3600 | 0.251 | 144.4 | 28.7 | 2.73 | 1.252 | 88.0 | 0.549 | 2.187 | 5.7 | 212.6 | --- | 3.389 | 8.10 | 0.497 | 61.1 | 323.4 | 10.8 | 0.326 |
| 4-2740 | 4-3620 | 0.254 | 153.3 | 31.7 | 3.83 | 1.254 | 89.2 | 0.553 | 2.208 | 2.2 | 213.1 | --- | 3.430 | 7.13 | 0.497 | 60.6 | 326.8 | 9.5 | 0.326 |
| 4-2740 | 4-3640 | 0.260 | 161.8 | 33.0 | 4.70 | 1.256 | 90.5 | 0.557 | 2.229 | 358.7 | 573.5 | 0.987 | 3.470 | 6.40 | 0.498 | 60.1 | 330.3 | 8.5 | 0.326 |
| 4-2750 | 4-2890 | 1.130 | 47.9 | 22.2 | 7.24 | 1.242 | 31.7 | 0.893 | 2.051 | 130.5 | 160.6 | --- | --- | -3.71 | 0.523 | 152.1 | 270.3 | -1.4 | 0.631 |
| 4-2750 | 4-2910 | 1.066 | 47.9 | 23.0 | 7.77 | 1.205 | 34.2 | 0.862 | 1.736 | 129.4 | 164.2 | --- | --- | -3.25 | 0.434 | 144.0 | 268.3 | -1.5 | 0.540 |
| 4-2750 | 4-2930 | 1.017 | 48.2 | 23.8 | 8.20 | 1.184 | 36.5 | 0.836 | 1.592 | 127.8 | 167.4 | --- | --- | -2.91 | 0.374 | 134.6 | 266.1 | -1.6 | 0.473 |
| 4-2750 | 4-2950 | 0.977 | 48.8 | 24.7 | 8.55 | 1.171 | 38.5 | 0.813 | 1.520 | 125.9 | 170.3 | --- | --- | -2.65 | 0.336 | 124.5 | 263.6 | -1.7 | 0.423 |
| 4-2750 | 4-2970 | 0.942 | 49.5 | 25.6 | 8.85 | 1.164 | 40.4 | 0.792 | 1.484 | 123.7 | 173.0 | --- | --- | -2.45 | 0.316 | 114.4 | 261.1 | -1.8 | 0.387 |
| 4-2750 | 4-2990 | 0.912 | 50.4 | 26.5 | 9.11 | 1.161 | 42.2 | 0.773 | 1.470 | 121.2 | 175.4 | --- | --- | -2.29 | 0.309 | 105.1 | 258.7 | -1.9 | 0.360 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2750 | 4-3010 | 0.884 | 51.4 | 27.5 | 9.34 | 1.161 | 43.9 | 0.756 | 1.468 | 118.6 | 177.7 | --- | --- | -2.16 | 0.311 | 97.0 | 256.7 | -2.0 | 0.342 |
| 4-2750 | 4-3030 | 0.857 | 52.4 | 28.5 | 9.54 | 1.162 | 45.5 | 0.740 | 1.475 | 115.8 | 179.9 | --- | --- | -2.06 | 0.319 | 90.3 | 255.0 | -2.0 | 0.329 |
| 4-2750 | 4-3050 | 0.832 | 53.6 | 29.5 | 9.73 | 1.165 | 47.1 | 0.724 | 1.488 | 112.9 | 181.9 | --- | 2.566 | -1.99 | 0.330 | 84.9 | 253.8 | -2.0 | 0.320 |
| 4-2750 | 4-3070 | 0.809 | 54.8 | 30.6 | 9.91 | 1.168 | 48.7 | 0.709 | 1.506 | 109.9 | 183.9 | --- | 2.573 | -1.93 | 0.343 | 80.6 | 253.2 | -2.1 | 0.314 |
| 4-2750 | 4-3090 | 0.785 | 56.1 | 31.7 | 10.09 | 1.172 | 50.2 | 0.695 | 1.526 | 106.7 | 185.8 | --- | 2.587 | -1.89 | 0.356 | 77.2 | 253.0 | -2.1 | 0.311 |
| 4-2750 | 4-3110 | 0.763 | 57.4 | 32.8 | 10.25 | 1.176 | 51.7 | 0.682 | 1.549 | 103.5 | 187.5 | --- | 2.605 | -1.87 | 0.369 | 74.6 | 253.3 | -2.1 | 0.310 |
| 4-2750 | 4-3130 | 0.740 | 58.8 | 34.0 | 10.41 | 1.180 | 53.2 | 0.669 | 1.573 | 100.2 | 189.2 | --- | 2.626 | -1.86 | 0.382 | 72.4 | 254.1 | -2.2 | 0.309 |
| 4-2750 | 4-3150 | 0.719 | 60.3 | 35.2 | 10.58 | 1.185 | 54.7 | 0.657 | 1.599 | 96.9 | 190.9 | --- | 2.650 | -1.86 | 0.394 | 70.7 | 255.3 | -2.2 | 0.309 |
| 4-2750 | 4-3170 | 0.697 | 61.8 | 36.5 | 10.74 | 1.189 | 56.1 | 0.646 | 1.625 | 93.4 | 192.4 | --- | 2.675 | -1.88 | 0.405 | 69.4 | 256.9 | -2.3 | 0.310 |
| 4-2750 | 4-3190 | 0.676 | 63.3 | 37.8 | 10.91 | 1.193 | 57.6 | 0.635 | 1.653 | 90.0 | 193.9 | --- | 2.702 | -1.91 | 0.416 | 68.3 | 258.7 | -2.4 | 0.311 |
| 4-2750 | 4-3210 | 0.656 | 65.0 | 39.2 | 11.08 | 1.197 | 59.0 | 0.625 | 1.680 | 86.5 | 195.3 | --- | 2.730 | -1.96 | 0.425 | 67.4 | 260.8 | -2.5 | 0.312 |
| 4-2750 | 4-3230 | 0.636 | 66.7 | 40.7 | 11.26 | 1.201 | 60.4 | 0.616 | 1.708 | 82.9 | 196.7 | --- | 2.759 | -2.03 | 0.434 | 66.7 | 263.2 | -2.6 | 0.313 |
| 4-2750 | 4-3250 | 0.616 | 68.5 | 42.2 | 11.46 | 1.205 | 61.8 | 0.607 | 1.736 | 79.3 | 198.0 | --- | 2.789 | -2.11 | 0.442 | 66.1 | 265.7 | -2.7 | 0.314 |
| 4-2750 | 4-3270 | 0.597 | 70.4 | 43.9 | 11.67 | 1.209 | 63.2 | 0.599 | 1.764 | 75.7 | 199.2 | --- | 2.820 | -2.23 | 0.448 | 65.6 | 268.4 | -2.9 | 0.315 |
| 4-2750 | 4-3290 | 0.579 | 72.4 | 45.6 | 11.91 | 1.213 | 64.5 | 0.591 | 1.792 | 72.1 | 200.4 | --- | 2.852 | -2.36 | 0.455 | 65.2 | 271.2 | -3.1 | 0.316 |
| 4-2750 | 4-3310 | 0.562 | 74.5 | 47.5 | 12.18 | 1.216 | 65.9 | 0.585 | 1.820 | 68.4 | 201.5 | --- | 2.883 | -2.54 | 0.460 | 64.9 | 274.2 | -3.3 | 0.316 |
| 4-2750 | 4-3330 | 0.545 | 76.7 | 49.5 | 12.49 | 1.220 | 67.2 | 0.579 | 1.847 | 64.8 | 202.5 | --- | 2.916 | -2.76 | 0.465 | 64.5 | 277.3 | -3.7 | 0.317 |
| 4-2750 | 4-3350 | 0.530 | 79.1 | 51.7 | 12.86 | 1.223 | 68.6 | 0.573 | 1.874 | 61.1 | 203.5 | --- | 2.949 | -3.04 | 0.469 | 64.3 | 280.4 | -4.1 | 0.318 |
| 4-2750 | 4-3370 | 0.517 | 81.7 | 54.1 | 13.31 | 1.226 | 69.9 | 0.568 | 1.901 | 57.4 | 204.5 | --- | 2.982 | -3.41 | 0.473 | 64.0 | 283.7 | -4.6 | 0.319 |
| 4-2750 | 4-3390 | 0.506 | 84.4 | 56.9 | 13.88 | 1.229 | 71.2 | 0.564 | 1.928 | 53.8 | 205.3 | --- | 3.015 | -3.90 | 0.477 | 63.8 | 287.0 | -5.2 | 0.319 |
| 4-2750 | 4-3410 | 0.498 | 87.3 | 60.1 | 14.64 | 1.232 | 72.5 | 0.561 | 1.954 | 50.1 | 206.2 | --- | 3.050 | -4.59 | 0.480 | 63.5 | 290.3 | -6.1 | 0.320 |
| 4-2750 | 4-3430 | 0.495 | 90.3 | 63.9 | 15.71 | 1.235 | 73.7 | 0.558 | 1.980 | 46.4 | 207.0 | --- | 3.084 | -5.58 | 0.482 | 63.3 | 293.8 | -7.5 | 0.322 |
| 4-2750 | 4-3450 | 0.501 | 92.9 | 68.8 | 17.37 | 1.237 | 75.0 | 0.555 | 2.006 | 42.8 | 207.8 | --- | 3.119 | -7.17 | 0.484 | 63.1 | 297.4 | -9.6 | 0.325 |
| 4-2750 | 4-3470 | 0.529 | 93.1 | 75.6 | 20.30 | 1.240 | 76.2 | 0.553 | 2.031 | 39.2 | 208.5 | --- | 3.154 | -10.03 | 0.487 | 62.8 | 301.3 | -13.2 | 0.331 |
| 4-2750 | 4-3490 | 0.619 | 54.7 | 85.2 | 26.94 | 1.242 | 77.5 | 0.552 | 2.055 | 35.7 | 209.2 | --- | 3.190 | -16.60 | 0.488 | 62.5 | 306.4 | -20.6 | 0.351 |
| 4-2750 | 4-3510 | 1.058 | 324.4 | 65.1 | 53.75 | 1.244 | 78.5 | 0.552 | 2.079 | 32.5 | 209.8 | --- | 3.228 | -43.34 | 0.490 | 62.2 | 322.1 | -37.1 | 0.493 |
| 4-2750 | 4-3530 | 0.637 | 88.0 | -45.7 | -28.97 | 1.246 | 80.3 | 0.550 | 2.103 | 27.5 | 210.4 | --- | 3.260 | 39.45 | 0.491 | 62.1 | 323.7 | 36.1 | 0.468 |
| 4-2750 | 4-3550 | 0.314 | 115.9 | -1.5 | -5.58 | 1.249 | 81.4 | 0.551 | 2.126 | 24.3 | 211.0 | --- | 3.298 | 16.13 | 0.493 | 61.7 | 316.8 | 20.2 | 0.349 |
| 4-2750 | 4-3570 | 0.283 | 126.6 | 21.9 | 0.60 | 1.251 | 82.6 | 0.552 | 2.149 | 20.9 | 211.6 | --- | 3.336 | 10.02 | 0.494 | 61.4 | 318.7 | 13.1 | 0.332 |
| 4-2750 | 4-3590 | 0.280 | 135.5 | 32.8 | 3.39 | 1.252 | 83.8 | 0.553 | 2.172 | 17.4 | 212.1 | --- | 3.373 | 7.30 | 0.495 | 61.0 | 321.7 | 9.7 | 0.327 |
| 4-2750 | 4-3610 | 0.280 | 144.3 | 38.4 | 4.98 | 1.254 | 85.1 | 0.555 | 2.194 | 13.9 | 212.6 | --- | 3.411 | 5.77 | 0.496 | 60.6 | 325.0 | 7.7 | 0.325 |
| 4-2750 | 4-3630 | 0.282 | 153.0 | 41.1 | 6.02 | 1.256 | 86.3 | 0.558 | 2.215 | 10.4 | 213.1 | --- | 3.450 | 4.80 | 0.497 | 60.2 | 328.5 | 6.4 | 0.325 |
| 4-2750 | 4-3650 | 0.283 | 161.4 | 42.2 | 6.76 | 1.258 | 87.5 | 0.560 | 2.236 | 6.9 | 213.6 | --- | 3.489 | 4.13 | 0.498 | 59.8 | 331.9 | 5.5 | 0.325 |
| 4-2760 | 4-2920 | 1.176 | 52.6 | 24.0 | 10.62 | 1.189 | 26.9 | 0.909 | 1.616 | 141.9 | 169.1 | --- | --- | 0.01 | 0.384 | 148.1 | 264.9 | 0.0 | 0.562 |
| 4-2760 | 4-2940 | 1.121 | 53.4 | 24.8 | 10.62 | 1.169 | 29.7 | 0.886 | 1.504 | 139.2 | 171.2 | --- | --- | 0.01 | 0.323 | 137.3 | 262.7 | 0.0 | 0.497 |
| 4-2760 | 4-2960 | 1.075 | 54.4 | 25.7 | 10.61 | 1.158 | 32.1 | 0.864 | 1.450 | 136.5 | 173.3 | --- | --- | 0.01 | 0.287 | 125.3 | 260.3 | 0.0 | 0.449 |
| 4-2760 | 4-2980 | 1.035 | 55.5 | 26.5 | 10.61 | 1.153 | 34.4 | 0.843 | 1.426 | 133.6 | 175.3 | --- | --- | 0.01 | 0.271 | 113.2 | 258.1 | 0.0 | 0.415 |
| 4-2760 | 4-3000 | 1.000 | 56.7 | 27.4 | 10.61 | 1.152 | 36.6 | 0.824 | 1.419 | 130.7 | 177.3 | --- | --- | 0.01 | 0.268 | 102.3 | 256.2 | 0.0 | 0.390 |
| 4-2760 | 4-3020 | 0.968 | 58.0 | 28.2 | 10.61 | 1.153 | 38.6 | 0.805 | 1.423 | 127.6 | 179.2 | --- | --- | 0.01 | 0.276 | 93.2 | 254.6 | 0.0 | 0.372 |
| 4-2760 | 4-3040 | 0.938 | 59.3 | 29.1 | 10.61 | 1.155 | 40.5 | 0.788 | 1.435 | 124.5 | 181.1 | --- | 2.566 | 0.01 | 0.289 | 86.0 | 253.4 | 0.0 | 0.359 |
| 4-2760 | 4-3060 | 0.910 | 60.7 | 30.0 | 10.61 | 1.159 | 42.3 | 0.771 | 1.452 | 121.3 | 182.9 | --- | 2.571 | 0.00 | 0.304 | 80.5 | 252.8 | 0.0 | 0.350 |
| 4-2760 | 4-3080 | 0.882 | 62.2 | 30.9 | 10.61 | 1.163 | 44.1 | 0.754 | 1.473 | 118.1 | 184.6 | --- | 2.584 | 0.00 | 0.321 | 76.2 | 252.6 | 0.0 | 0.345 |
| 4-2760 | 4-3100 | 0.856 | 63.7 | 31.8 | 10.61 | 1.168 | 45.8 | 0.739 | 1.496 | 114.8 | 186.3 | --- | 2.601 | 0.00 | 0.337 | 73.0 | 252.9 | 0.0 | 0.341 |
| 4-2760 | 4-3120 | 0.831 | 65.2 | 32.7 | 10.61 | 1.172 | 47.5 | 0.724 | 1.521 | 111.4 | 188.0 | --- | 2.623 | 0.00 | 0.353 | 70.5 | 253.7 | 0.0 | 0.338 |
| 4-2760 | 4-3140 | 0.805 | 66.8 | 33.6 | 10.61 | 1.177 | 49.2 | 0.710 | 1.548 | 108.0 | 189.5 | --- | 2.646 | 0.00 | 0.368 | 68.6 | 254.8 | 0.0 | 0.337 |
| 4-2760 | 4-3160 | 0.781 | 68.5 | 34.6 | 10.61 | 1.182 | 50.8 | 0.696 | 1.576 | 104.5 | 191.1 | --- | 2.672 | 0.00 | 0.382 | 67.1 | 256.3 | 0.0 | 0.336 |
| 4-2760 | 4-3180 | 0.757 | 70.1 | 35.5 | 10.61 | 1.187 | 52.3 | 0.683 | 1.604 | 101.1 | 192.5 | --- | 2.700 | 0.00 | 0.394 | 66.0 | 258.1 | 0.0 | 0.335 |
| 4-2760 | 4-3200 | 0.733 | 71.9 | 36.5 | 10.61 | 1.191 | 53.9 | 0.671 | 1.633 | 97.5 | 193.9 | --- | 2.729 | 0.00 | 0.406 | 65.1 | 260.1 | 0.0 | 0.335 |
| 4-2760 | 4-3220 | 0.710 | 73.7 | 37.5 | 10.61 | 1.196 | 55.4 | 0.659 | 1.662 | 94.0 | 195.3 | --- | 2.758 | 0.00 | 0.416 | 64.4 | 262.4 | 0.0 | 0.335 |
| 4-2760 | 4-3240 | 0.687 | 75.6 | 38.5 | 10.61 | 1.200 | 56.9 | 0.648 | 1.692 | 90.4 | 196.6 | --- | 2.789 | 0.00 | 0.426 | 63.9 | 264.9 | 0.0 | 0.335 |
| 4-2760 | 4-3260 | 0.665 | 77.6 | 39.5 | 10.61 | 1.204 | 58.4 | 0.638 | 1.721 | 86.8 | 197.9 | --- | 2.820 | 0.00 | 0.434 | 63.5 | 267.5 | 0.0 | 0.335 |
| 4-2760 | 4-3280 | 0.643 | 79.7 | 40.6 | 10.60 | 1.209 | 59.9 | 0.629 | 1.751 | 83.1 | 199.1 | --- | 2.851 | 0.00 | 0.442 | 63.2 | 270.3 | 0.0 | 0.334 |
| 4-2760 | 4-3300 | 0.621 | 81.8 | 41.6 | 10.60 | 1.212 | 61.3 | 0.620 | 1.780 | 79.5 | 200.2 | --- | 2.883 | 0.01 | 0.449 | 62.9 | 273.2 | 0.0 | 0.334 |
| 4-2760 | 4-3320 | 0.600 | 84.1 | 42.7 | 10.60 | 1.216 | 62.7 | 0.612 | 1.809 | 75.8 | 201.3 | --- | 2.916 | 0.01 | 0.455 | 62.7 | 276.2 | 0.0 | 0.334 |
| 4-2760 | 4-3340 | 0.579 | 86.5 | 43.8 | 10.60 | 1.220 | 64.1 | 0.604 | 1.838 | 72.2 | 202.3 | --- | 2.949 | 0.01 | 0.460 | 62.5 | 279.3 | 0.0 | 0.333 |
| 4-2760 | 4-3360 | 0.559 | 89.1 | 44.9 | 10.60 | 1.223 | 65.5 | 0.598 | 1.866 | 68.5 | 203.3 | --- | 2.982 | 0.01 | 0.465 | 62.4 | 282.5 | 0.0 | 0.333 |
| 4-2760 | 4-3380 | 0.539 | 91.9 | 46.1 | 10.60 | 1.226 | 66.8 | 0.591 | 1.895 | 64.8 | 204.2 | --- | 3.015 | 0.01 | 0.469 | 62.2 | 285.7 | 0.0 | 0.332 |
| 4-2760 | 4-3400 | 0.519 | 94.9 | 47.2 | 10.60 | 1.229 | 68.2 | 0.586 | 1.922 | 61.2 | 205.1 | --- | 3.049 | 0.01 | 0.473 | 62.1 | 289.0 | 0.0 | 0.331 |
| 4-2760 | 4-3420 | 0.501 | 98.1 | 48.4 | 10.60 | 1.232 | 69.5 | 0.581 | 1.950 | 57.5 | 206.0 | --- | 3.082 | 0.01 | 0.476 | 62.0 | 292.3 | 0.0 | 0.331 |
| 4-2760 | 4-3440 | 0.483 | 101.6 | 49.5 | 10.60 | 1.235 | 70.8 | 0.577 | 1.977 | 53.9 | 206.8 | --- | 3.117 | 0.01 | 0.479 | 61.8 | 295.7 | 0.0 | 0.330 |
| 4-2760 | 4-3460 | 0.465 | 105.4 | 50.6 | 10.59 | 1.238 | 72.1 | 0.573 | 2.003 | 50.3 | 207.5 | --- | 3.151 | 0.01 | 0.482 | 61.7 | 299.1 | 0.0 | 0.329 |
| 4-2760 | 4-3480 | 0.448 | 109.5 | 51.7 | 10.59 | 1.241 | 73.4 | 0.570 | 2.029 | 46.6 | 208.3 | --- | 3.186 | 0.01 | 0.484 | 61.5 | 302.5 | 0.0 | 0.329 |
| 4-2760 | 4-3500 | 0.432 | 114.0 | 52.7 | 10.59 | 1.243 | 74.7 | 0.568 | 2.055 | 43.1 | 209.0 | --- | 3.221 | 0.02 | 0.486 | 61.4 | 305.9 | 0.0 | 0.328 |
| 4-2760 | 4-3520 | 0.417 | 119.0 | 53.6 | 10.58 | 1.245 | 75.9 | 0.566 | 2.080 | 39.5 | 209.6 | --- | 3.256 | 0.03 | 0.488 | 61.2 | 309.4 | 0.0 | 0.327 |
| 4-2760 | 4-3540 | 0.403 | 124.4 | 54.3 | 10.56 | 1.248 | 77.2 | 0.564 | 2.104 | 35.9 | 210.3 | --- | 3.292 | 0.04 | 0.490 | 61.0 | 312.8 | 0.1 | 0.327 |
| 4-2760 | 4-3560 | 0.389 | 130.4 | 54.5 | 10.42 | 1.250 | 78.5 | 0.563 | 2.128 | 32.4 | 210.9 | --- | 3.327 | 0.17 | 0.491 | 60.8 | 316.3 | 0.2 | 0.326 |
| 4-2760 | 4-3580 | 0.378 | 136.5 | 55.8 | 10.71 | 1.252 | 79.7 | 0.563 | 2.152 | 28.8 | 211.5 | --- | 3.364 | -0.09 | 0.493 | 60.5 | 319.8 | -0.1 | 0.326 |
| 4-2760 | 4-3600 | 0.366 | 143.2 | 55.8 | 10.65 | 1.254 | 80.9 | 0.563 | 2.175 | 25.3 | 212.0 | --- | 3.400 | -0.04 | 0.494 | 60.3 | 323.2 | -0.0 | 0.326 |
| 4-2760 | 4-3620 | 0.356 | 150.3 | 55.5 | 10.63 | 1.256 | 82.2 | 0.564 | 2.198 | 21.8 | 212.6 | --- | 3.437 | -0.02 | 0.495 | 60.0 | 326.7 | -0.0 | 0.326 |
| 4-2760 | 4-3640 | 0.347 | 157.5 | 54.9 | 10.63 | 1.258 | 83.4 | 0.565 | 2.220 | 18.4 | 213.1 | --- | 3.474 | -0.02 | 0.496 | 59.7 | 330.2 | -0.0 | 0.326 |
| 4-2760 | 4-3660 | 0.340 | 164.7 | 53.9 | 10.62 | 1.259 | 84.6 | 0.566 | 2.242 | 14.9 | 213.6 | --- | 3.511 | -0.01 | 0.498 | 59.3 | 333.7 | -0.0 | 0.326 |
| 4-2770 | 4-2930 | 1.285 | 57.8 | 25.0 | 15.68 | 1.175 | 19.6 | 0.950 | 1.534 | 153.2 | 172.8 | --- | --- | 5.56 | 0.340 | 154.1 | 262.3 | 1.4 | 0.594 |
| 4-2770 | 4-2950 | 1.223 | 59.1 | 25.8 | 14.55 | 1.157 | 22.8 | 0.930 | 1.440 | 149.6 | 174.1 | --- | --- | 4.51 | 0.276 | 142.0 | 260.2 | 1.4 | 0.530 |
| 4-2770 | 4-2970 | 1.172 | 60.5 | 26.6 | 13.77 | 1.148 | 25.7 | 0.910 | 1.396 | 146.2 | 175.5 | --- | --- | 3.82 | 0.239 | 127.6 | 258.1 | 1.5 | 0.484 |
| 4-2770 | 4-2990 | 1.128 | 61.9 | 27.4 | 13.19 | 1.144 | 28.4 | 0.890 | 1.379 | 142.8 | 177.0 | --- | --- | 3.32 | 0.225 | 112.6 | 256.2 | 1.5 | 0.449 |
| 4-2770 | 4-3010 | 1.088 | 63.4 | 28.1 | 12.74 | 1.143 | 30.9 | 0.871 | 1.377 | 139.4 | 178.6 | --- | --- | 2.96 | 0.227 | 99.3 | 254.7 | 1.6 | 0.425 |
| 4-2770 | 4-3030 | 1.052 | 65.0 | 28.9 | 12.37 | 1.145 | 33.2 | 0.852 | 1.386 | 136.1 | 180.2 | --- | 2.566 | 2.69 | 0.240 | 88.9 | 253.5 | 1.6 | 0.407 |
| 4-2770 | 4-3050 | 1.019 | 66.6 | 29.6 | 12.06 | 1.149 | 35.3 | 0.834 | 1.401 | 132.7 | 181.8 | --- | 2.568 | 2.47 | 0.258 | 81.1 | 252.9 | 1.6 | 0.394 |
| 4-2770 | 4-3070 | 0.987 | 68.2 | 30.4 | 11.80 | 1.153 | 37.4 | 0.816 | 1.420 | 129.3 | 183.4 | --- | 2.579 | 2.31 | 0.278 | 75.4 | 252.6 | 1.6 | 0.385 |
| 4-2770 | 4-3090 | 0.957 | 69.8 | 31.1 | 11.56 | 1.158 | 39.4 | 0.799 | 1.443 | 125.9 | 185.0 | --- | 2.596 | 2.18 | 0.298 | 71.3 | 252.9 | 1.6 | 0.378 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2770 | 4-3110 | 0.928 | 71.5 | 31.8 | 11.35 | 1.163 | 41.3 | 0.782 | 1.469 | 122.5 | 186.5 | --- | 2.617 | 2.08 | 0.318 | 68.3 | 253.5 | 1.6 | 0.373 |
| 4-2770 | 4-3130 | 0.900 | 73.2 | 32.5 | 11.16 | 1.168 | 43.2 | 0.766 | 1.496 | 119.0 | 188.0 | --- | 2.641 | 2.00 | 0.336 | 66.1 | 254.6 | 1.7 | 0.370 |
| 4-2770 | 4-3150 | 0.872 | 75.0 | 33.2 | 10.98 | 1.174 | 45.0 | 0.750 | 1.524 | 115.5 | 189.5 | --- | 2.668 | 1.94 | 0.353 | 64.5 | 256.0 | 1.7 | 0.367 |
| 4-2770 | 4-3170 | 0.845 | 76.7 | 33.9 | 10.81 | 1.179 | 46.7 | 0.736 | 1.553 | 112.0 | 191.0 | --- | 2.696 | 1.90 | 0.369 | 63.3 | 257.7 | 1.7 | 0.365 |
| 4-2770 | 4-3190 | 0.819 | 78.5 | 34.6 | 10.64 | 1.184 | 48.4 | 0.721 | 1.583 | 108.4 | 192.4 | --- | 2.725 | 1.88 | 0.383 | 62.4 | 259.7 | 1.8 | 0.363 |
| 4-2770 | 4-3210 | 0.793 | 80.4 | 35.3 | 10.48 | 1.189 | 50.1 | 0.708 | 1.614 | 104.8 | 193.7 | --- | 2.756 | 1.87 | 0.395 | 61.7 | 261.9 | 1.8 | 0.362 |
| 4-2770 | 4-3230 | 0.767 | 82.3 | 35.9 | 10.32 | 1.194 | 51.7 | 0.695 | 1.644 | 101.3 | 195.0 | --- | 2.787 | 1.87 | 0.407 | 61.2 | 264.3 | 1.9 | 0.360 |
| 4-2770 | 4-3250 | 0.742 | 84.3 | 36.6 | 10.16 | 1.199 | 53.3 | 0.683 | 1.675 | 97.7 | 196.3 | --- | 2.819 | 1.89 | 0.417 | 60.9 | 266.9 | 1.9 | 0.359 |
| 4-2770 | 4-3270 | 0.717 | 86.3 | 37.2 | 9.99 | 1.203 | 54.9 | 0.671 | 1.706 | 94.0 | 197.5 | --- | 2.851 | 1.92 | 0.426 | 60.7 | 269.6 | 2.0 | 0.358 |
| 4-2770 | 4-3290 | 0.693 | 88.4 | 37.8 | 9.82 | 1.207 | 56.4 | 0.660 | 1.737 | 90.4 | 198.7 | --- | 2.884 | 1.97 | 0.435 | 60.5 | 272.5 | 2.1 | 0.356 |
| 4-2770 | 4-3310 | 0.669 | 90.6 | 38.3 | 9.65 | 1.211 | 57.9 | 0.650 | 1.767 | 86.8 | 199.8 | --- | 2.916 | 2.03 | 0.442 | 60.4 | 275.5 | 2.2 | 0.355 |
| 4-2770 | 4-3330 | 0.645 | 92.9 | 38.9 | 9.46 | 1.215 | 59.4 | 0.641 | 1.797 | 83.1 | 200.9 | --- | 2.949 | 2.11 | 0.449 | 60.3 | 278.5 | 2.3 | 0.353 |
| 4-2770 | 4-3350 | 0.622 | 95.2 | 39.4 | 9.25 | 1.219 | 60.9 | 0.632 | 1.827 | 79.5 | 201.9 | --- | 2.983 | 2.21 | 0.455 | 60.3 | 281.6 | 2.5 | 0.352 |
| 4-2770 | 4-3370 | 0.599 | 97.6 | 39.8 | 9.03 | 1.223 | 62.3 | 0.624 | 1.857 | 75.8 | 202.9 | --- | 3.016 | 2.34 | 0.460 | 60.2 | 284.8 | 2.7 | 0.350 |
| 4-2770 | 4-3390 | 0.576 | 100.2 | 40.1 | 8.78 | 1.226 | 63.7 | 0.617 | 1.886 | 72.2 | 203.8 | --- | 3.050 | 2.50 | 0.465 | 60.2 | 288.1 | 2.9 | 0.349 |
| 4-2770 | 4-3410 | 0.553 | 102.9 | 40.3 | 8.50 | 1.229 | 65.1 | 0.610 | 1.915 | 68.6 | 204.7 | --- | 3.083 | 2.70 | 0.469 | 60.2 | 291.4 | 3.2 | 0.347 |
| 4-2770 | 4-3430 | 0.531 | 105.7 | 40.4 | 8.17 | 1.232 | 66.4 | 0.604 | 1.944 | 65.0 | 205.6 | --- | 3.117 | 2.95 | 0.472 | 60.2 | 294.7 | 3.5 | 0.346 |
| 4-2770 | 4-3450 | 0.509 | 108.6 | 40.2 | 7.77 | 1.235 | 67.8 | 0.598 | 1.972 | 61.4 | 206.4 | --- | 3.151 | 3.26 | 0.476 | 60.2 | 298.1 | 3.9 | 0.345 |
| 4-2770 | 4-3470 | 0.486 | 111.6 | 39.7 | 7.28 | 1.238 | 69.1 | 0.594 | 1.999 | 57.8 | 207.2 | --- | 3.186 | 3.67 | 0.478 | 60.1 | 301.5 | 4.4 | 0.343 |
| 4-2770 | 4-3490 | 0.464 | 114.7 | 38.8 | 6.66 | 1.241 | 70.4 | 0.589 | 2.026 | 54.2 | 207.9 | --- | 3.220 | 4.22 | 0.481 | 60.1 | 304.9 | 5.1 | 0.342 |
| 4-2770 | 4-3510 | 0.441 | 117.8 | 37.0 | 5.82 | 1.243 | 71.7 | 0.586 | 2.052 | 50.7 | 208.6 | --- | 3.254 | 4.98 | 0.483 | 60.0 | 308.4 | 6.1 | 0.341 |
| 4-2770 | 4-3530 | 0.417 | 120.7 | 34.0 | 4.62 | 1.246 | 73.0 | 0.583 | 2.078 | 47.2 | 209.3 | --- | 3.289 | 6.11 | 0.486 | 59.9 | 311.9 | 7.5 | 0.341 |
| 4-2770 | 4-3550 | 0.393 | 123.2 | 28.6 | 2.74 | 1.248 | 74.2 | 0.580 | 2.104 | 43.7 | 210.0 | --- | 3.324 | 7.92 | 0.487 | 59.8 | 315.6 | 9.7 | 0.343 |
| 4-2770 | 4-3570 | 0.372 | 124.1 | 17.5 | -0.67 | 1.250 | 75.5 | 0.578 | 2.129 | 40.2 | 210.6 | --- | 3.359 | 11.26 | 0.489 | 59.6 | 319.7 | 13.7 | 0.349 |
| 4-2770 | 4-3590 | 0.394 | 119.5 | -8.1 | -8.79 | 1.253 | 76.7 | 0.577 | 2.153 | 36.9 | 211.2 | --- | 3.395 | 19.32 | 0.491 | 59.5 | 325.4 | 22.0 | 0.373 |
| 4-2770 | 4-3610 | 0.919 | 76.4 | -48.2 | -44.91 | 1.255 | 77.7 | 0.577 | 2.177 | 34.1 | 211.8 | --- | 3.433 | 55.38 | 0.493 | 59.2 | 346.3 | 37.7 | 0.569 |
| 4-2770 | 4-3630 | 0.914 | 316.5 | 78.0 | 44.93 | 1.257 | 79.5 | 0.574 | 2.201 | 29.1 | 212.4 | --- | 3.463 | -34.53 | 0.494 | 59.2 | 339.1 | -32.9 | 0.443 |
| 4-2770 | 4-3650 | 0.591 | 194.0 | 79.7 | 25.98 | 1.258 | 80.6 | 0.574 | 2.224 | 26.0 | 213.0 | --- | 3.500 | -15.65 | 0.496 | 58.9 | 334.7 | -18.7 | 0.357 |
| 4-2770 | 4-3670 | 0.495 | 182.0 | 71.6 | 20.30 | 1.260 | 81.8 | 0.574 | 2.246 | 22.7 | 213.5 | --- | 3.536 | -10.03 | 0.497 | 58.7 | 336.7 | -12.5 | 0.341 |
| 4-2780 | 4-2940 | 1.392 | 63.5 | 26.0 | 26.82 | 1.166 | 12.5 | 0.979 | 1.482 | 163.3 | 175.8 | --- | --- | 17.25 | 0.308 | 162.0 | 260.6 | 2.5 | 0.635 |
| 4-2780 | 4-2960 | 1.324 | 65.2 | 26.7 | 21.95 | 1.148 | 16.1 | 0.964 | 1.396 | 159.1 | 176.2 | --- | --- | 12.54 | 0.236 | 149.2 | 258.7 | 2.6 | 0.571 |
| 4-2780 | 4-2980 | 1.267 | 66.9 | 27.4 | 19.12 | 1.139 | 19.4 | 0.948 | 1.357 | 155.1 | 177.1 | --- | --- | 9.87 | 0.194 | 132.0 | 256.8 | 2.7 | 0.524 |
| 4-2780 | 4-3000 | 1.218 | 68.7 | 28.1 | 17.25 | 1.136 | 22.4 | 0.930 | 1.343 | 151.3 | 178.2 | --- | --- | 8.17 | 0.179 | 112.9 | 255.3 | 2.7 | 0.490 |
| 4-2780 | 4-3020 | 1.175 | 70.4 | 28.8 | 15.92 | 1.136 | 25.1 | 0.912 | 1.344 | 147.7 | 179.4 | --- | --- | 7.00 | 0.186 | 96.1 | 254.2 | 2.8 | 0.464 |
| 4-2780 | 4-3040 | 1.136 | 72.2 | 29.4 | 14.91 | 1.138 | 27.7 | 0.894 | 1.354 | 144.1 | 180.7 | --- | 2.566 | 6.16 | 0.204 | 83.8 | 253.4 | 2.8 | 0.446 |
| 4-2780 | 4-3060 | 1.099 | 74.0 | 30.0 | 14.10 | 1.142 | 30.2 | 0.876 | 1.371 | 140.5 | 182.1 | --- | 2.573 | 5.54 | 0.228 | 75.3 | 253.1 | 2.8 | 0.432 |
| 4-2780 | 4-3080 | 1.064 | 75.8 | 30.6 | 13.44 | 1.147 | 32.5 | 0.858 | 1.393 | 136.9 | 183.5 | --- | 2.588 | 5.06 | 0.252 | 69.7 | 253.3 | 2.8 | 0.422 |
| 4-2780 | 4-3100 | 1.031 | 77.6 | 31.1 | 12.88 | 1.153 | 34.7 | 0.841 | 1.417 | 133.4 | 185.0 | --- | 2.608 | 4.70 | 0.276 | 65.8 | 253.8 | 2.9 | 0.414 |
| 4-2780 | 4-3120 | 1.000 | 79.5 | 31.7 | 12.39 | 1.158 | 36.8 | 0.824 | 1.444 | 129.8 | 186.4 | --- | 2.633 | 4.41 | 0.299 | 63.1 | 254.8 | 2.9 | 0.408 |
| 4-2780 | 4-3140 | 0.969 | 81.3 | 32.2 | 11.95 | 1.164 | 38.8 | 0.807 | 1.472 | 126.3 | 187.8 | --- | 2.660 | 4.18 | 0.319 | 61.3 | 256.1 | 2.9 | 0.403 |
| 4-2780 | 4-3160 | 0.939 | 83.2 | 32.7 | 11.56 | 1.170 | 40.7 | 0.791 | 1.502 | 122.7 | 189.2 | --- | 2.689 | 4.01 | 0.338 | 60.0 | 257.7 | 2.9 | 0.399 |
| 4-2780 | 4-3180 | 0.910 | 85.0 | 33.1 | 11.19 | 1.175 | 42.6 | 0.775 | 1.532 | 119.1 | 190.6 | --- | 2.720 | 3.88 | 0.355 | 59.1 | 259.6 | 3.0 | 0.396 |
| 4-2780 | 4-3200 | 0.882 | 86.9 | 33.6 | 10.85 | 1.181 | 44.4 | 0.760 | 1.563 | 115.6 | 192.0 | --- | 2.751 | 3.78 | 0.371 | 58.5 | 261.7 | 3.0 | 0.393 |
| 4-2780 | 4-3220 | 0.854 | 88.9 | 34.0 | 10.52 | 1.186 | 46.2 | 0.745 | 1.595 | 112.0 | 193.3 | --- | 2.783 | 3.72 | 0.385 | 58.1 | 264.0 | 3.1 | 0.390 |
| 4-2780 | 4-3240 | 0.827 | 90.8 | 34.4 | 10.20 | 1.191 | 48.0 | 0.731 | 1.627 | 108.4 | 194.6 | --- | 2.816 | 3.69 | 0.397 | 57.8 | 266.5 | 3.2 | 0.387 |
| 4-2780 | 4-3260 | 0.800 | 92.8 | 34.7 | 9.89 | 1.196 | 49.6 | 0.718 | 1.658 | 104.8 | 195.8 | --- | 2.849 | 3.68 | 0.408 | 57.7 | 269.2 | 3.3 | 0.385 |
| 4-2780 | 4-3280 | 0.773 | 94.8 | 35.0 | 9.58 | 1.201 | 51.3 | 0.705 | 1.690 | 101.1 | 197.0 | --- | 2.883 | 3.70 | 0.418 | 57.6 | 272.0 | 3.4 | 0.382 |
| 4-2780 | 4-3300 | 0.747 | 96.9 | 35.3 | 9.26 | 1.206 | 52.9 | 0.693 | 1.722 | 97.5 | 198.2 | --- | 2.916 | 3.74 | 0.427 | 57.6 | 274.9 | 3.6 | 0.380 |
| 4-2780 | 4-3320 | 0.721 | 99.0 | 35.5 | 8.94 | 1.210 | 54.5 | 0.682 | 1.754 | 93.9 | 199.3 | --- | 2.950 | 3.81 | 0.435 | 57.7 | 277.9 | 3.7 | 0.377 |
| 4-2780 | 4-3340 | 0.696 | 101.1 | 35.6 | 8.61 | 1.214 | 56.0 | 0.672 | 1.785 | 90.3 | 200.3 | --- | 2.984 | 3.92 | 0.442 | 57.8 | 281.0 | 3.9 | 0.375 |
| 4-2780 | 4-3360 | 0.671 | 103.3 | 35.7 | 8.26 | 1.218 | 57.5 | 0.662 | 1.816 | 86.7 | 201.4 | --- | 3.018 | 4.05 | 0.449 | 57.9 | 284.2 | 4.1 | 0.372 |
| 4-2780 | 4-3380 | 0.646 | 105.6 | 35.6 | 7.89 | 1.222 | 59.0 | 0.652 | 1.847 | 83.1 | 202.4 | --- | 3.052 | 4.22 | 0.454 | 58.0 | 287.4 | 4.4 | 0.370 |
| 4-2780 | 4-3400 | 0.621 | 107.9 | 35.4 | 7.49 | 1.225 | 60.5 | 0.644 | 1.877 | 79.5 | 203.3 | --- | 3.086 | 4.43 | 0.459 | 58.1 | 290.6 | 4.7 | 0.368 |
| 4-2780 | 4-3420 | 0.597 | 110.2 | 35.1 | 7.05 | 1.229 | 61.9 | 0.636 | 1.907 | 75.9 | 204.2 | --- | 3.119 | 4.69 | 0.464 | 58.2 | 293.9 | 5.1 | 0.365 |
| 4-2780 | 4-3440 | 0.573 | 112.6 | 34.6 | 6.55 | 1.232 | 63.3 | 0.629 | 1.936 | 72.4 | 205.1 | --- | 3.154 | 5.01 | 0.468 | 58.2 | 297.3 | 5.5 | 0.363 |
| 4-2780 | 4-3460 | 0.550 | 115.0 | 33.9 | 5.99 | 1.235 | 64.7 | 0.622 | 1.965 | 68.8 | 205.9 | --- | 3.188 | 5.41 | 0.472 | 58.3 | 300.7 | 6.0 | 0.361 |
| 4-2780 | 4-3480 | 0.526 | 117.4 | 32.8 | 5.33 | 1.238 | 66.0 | 0.616 | 1.993 | 65.3 | 206.7 | --- | 3.222 | 5.90 | 0.475 | 58.4 | 304.1 | 6.6 | 0.359 |
| 4-2780 | 4-3500 | 0.503 | 119.9 | 31.2 | 4.55 | 1.241 | 67.3 | 0.611 | 2.021 | 61.8 | 207.5 | --- | 3.256 | 6.53 | 0.478 | 58.4 | 307.5 | 7.4 | 0.358 |
| 4-2780 | 4-3520 | 0.479 | 122.2 | 29.1 | 3.59 | 1.243 | 68.6 | 0.606 | 2.049 | 58.3 | 208.2 | --- | 3.290 | 7.35 | 0.480 | 58.4 | 311.0 | 8.4 | 0.356 |
| 4-2780 | 4-3540 | 0.457 | 124.3 | 25.9 | 2.36 | 1.246 | 69.9 | 0.602 | 2.076 | 54.8 | 208.9 | --- | 3.324 | 8.44 | 0.483 | 58.4 | 314.6 | 9.8 | 0.356 |
| 4-2780 | 4-3560 | 0.435 | 126.1 | 21.3 | 0.72 | 1.248 | 71.2 | 0.598 | 2.102 | 51.4 | 209.6 | --- | 3.359 | 9.93 | 0.485 | 58.4 | 318.2 | 11.5 | 0.357 |
| 4-2780 | 4-3580 | 0.418 | 127.1 | 14.4 | -1.60 | 1.251 | 72.4 | 0.595 | 2.128 | 48.0 | 210.2 | --- | 3.393 | 12.12 | 0.487 | 58.3 | 322.1 | 14.0 | 0.360 |
| 4-2780 | 4-3600 | 0.411 | 126.6 | 3.5 | -5.17 | 1.253 | 73.6 | 0.592 | 2.153 | 44.7 | 210.9 | --- | 3.428 | 15.55 | 0.489 | 58.3 | 326.3 | 17.7 | 0.368 |
| 4-2780 | 4-3620 | 0.441 | 122.5 | -13.6 | -11.39 | 1.255 | 74.8 | 0.591 | 2.178 | 41.5 | 211.5 | --- | 3.463 | 21.64 | 0.491 | 58.1 | 331.7 | 23.4 | 0.388 |
| 4-2780 | 4-3640 | 0.599 | 107.9 | -35.9 | -24.53 | 1.257 | 75.9 | 0.590 | 2.202 | 38.6 | 212.1 | --- | 3.500 | 34.66 | 0.493 | 58.0 | 340.9 | 32.0 | 0.449 |
| 4-2780 | 4-3680 | 1.253 | 341.1 | 67.9 | 65.32 | 1.261 | 79.5 | 0.583 | 2.249 | 28.8 | 213.3 | --- | 3.559 | -55.45 | 0.496 | 58.1 | 359.1 | -37.8 | 0.566 |
| 4-2790 | 4-2970 | 1.421 | 71.6 | 27.4 | 39.31 | 1.141 | 9.9 | 0.986 | 1.369 | 167.2 | 177.8 | --- | --- | 30.59 | 0.207 | 158.7 | 258.1 | 3.5 | 0.618 |
| 4-2790 | 4-2990 | 1.360 | 73.6 | 28.1 | 29.66 | 1.132 | 13.3 | 0.975 | 1.330 | 163.2 | 178.2 | --- | --- | 21.16 | 0.154 | 139.9 | 256.5 | 3.6 | 0.569 |
| 4-2790 | 4-3010 | 1.307 | 75.7 | 28.6 | 24.38 | 1.129 | 16.5 | 0.962 | 1.317 | 159.2 | 178.9 | --- | --- | 16.12 | 0.135 | 114.9 | 255.3 | 3.7 | 0.534 |
| 4-2790 | 4-3030 | 1.260 | 77.7 | 29.2 | 21.06 | 1.129 | 19.5 | 0.946 | 1.318 | 155.4 | 179.9 | --- | --- | 13.05 | 0.145 | 92.3 | 254.5 | 3.7 | 0.507 |
| 4-2790 | 4-3050 | 1.217 | 79.7 | 29.6 | 18.78 | 1.132 | 22.3 | 0.930 | 1.330 | 151.6 | 181.0 | --- | 2.567 | 11.01 | 0.169 | 77.4 | 254.1 | 3.7 | 0.487 |
| 4-2790 | 4-3070 | 1.178 | 81.7 | 30.1 | 17.09 | 1.136 | 25.0 | 0.914 | 1.347 | 147.9 | 182.1 | --- | 2.578 | 9.57 | 0.198 | 68.5 | 254.1 | 3.7 | 0.472 |
| 4-2790 | 4-3090 | 1.141 | 83.6 | 30.5 | 15.78 | 1.142 | 27.5 | 0.897 | 1.369 | 144.2 | 183.4 | --- | 2.597 | 8.52 | 0.227 | 63.0 | 254.5 | 3.7 | 0.460 |
| 4-2790 | 4-3110 | 1.105 | 85.6 | 30.9 | 14.72 | 1.147 | 29.9 | 0.880 | 1.394 | 140.5 | 184.7 | --- | 2.621 | 7.72 | 0.255 | 59.6 | 255.3 | 3.8 | 0.451 |
| 4-2790 | 4-3130 | 1.071 | 87.5 | 31.3 | 13.83 | 1.153 | 32.1 | 0.863 | 1.422 | 136.9 | 186.0 | --- | 2.648 | 7.12 | 0.280 | 57.4 | 256.5 | 3.8 | 0.444 |
| 4-2790 | 4-3150 | 1.039 | 89.5 | 31.6 | 13.07 | 1.160 | 34.3 | 0.846 | 1.451 | 133.3 | 187.4 | --- | 2.678 | 6.64 | 0.303 | 56.0 | 258.0 | 3.8 | 0.438 |
| 4-2790 | 4-3170 | 1.007 | 91.4 | 31.9 | 12.40 | 1.166 | 36.4 | 0.829 | 1.481 | 129.7 | 188.7 | --- | 2.710 | 6.27 | 0.323 | 55.1 | 259.8 | 3.8 | 0.432 |
| 4-2790 | 4-3190 | 0.976 | 93.4 | 32.2 | 11.79 | 1.172 | 38.4 | 0.813 | 1.513 | 126.1 | 190.0 | --- | 2.743 | 5.98 | 0.342 | 54.5 | 261.8 | 3.9 | 0.428 |
| 4-2790 | 4-3210 | 0.946 | 95.3 | 32.4 | 11.24 | 1.177 | 40.4 | 0.798 | 1.544 | 122.5 | 191.4 | --- | 2.776 | 5.76 | 0.358 | 54.2 | 264.0 | 4.0 | 0.423 |
| 4-2790 | 4-3230 | 0.916 | 97.2 | 32.6 | 10.73 | 1.183 | 42.2 | 0.782 | 1.577 | 118.9 | 192.6 | --- | 2.810 | 5.60 | 0.373 | 54.1 | 266.4 | 4.0 | 0.419 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2790 | 4-3250 | 0.887 | 99.2 | 32.7 | 10.25 | 1.188 | 44.1 | 0.768 | 1.609 | 115.3 | 193.9 | --- | 2.845 | 5.48 | 0.387 | 54.1 | 269.0 | 4.1 | 0.416 |
| 4-2790 | 4-3270 | 0.859 | 101.1 | 32.8 | 9.78 | 1.194 | 45.9 | 0.754 | 1.642 | 111.7 | 195.1 | --- | 2.879 | 5.41 | 0.399 | 54.2 | 271.7 | 4.2 | 0.412 |
| 4-2790 | 4-3290 | 0.831 | 103.1 | 32.9 | 9.33 | 1.199 | 47.6 | 0.740 | 1.675 | 108.1 | 196.3 | --- | 2.914 | 5.38 | 0.410 | 54.4 | 274.6 | 4.4 | 0.408 |
| 4-2790 | 4-3310 | 0.803 | 105.1 | 32.9 | 8.88 | 1.203 | 49.3 | 0.727 | 1.707 | 104.5 | 197.4 | --- | 2.949 | 5.38 | 0.419 | 54.5 | 277.5 | 4.5 | 0.405 |
| 4-2790 | 4-3330 | 0.776 | 107.1 | 32.8 | 8.44 | 1.208 | 50.9 | 0.715 | 1.740 | 100.9 | 198.6 | --- | 2.984 | 5.42 | 0.428 | 54.8 | 280.6 | 4.7 | 0.401 |
| 4-2790 | 4-3350 | 0.750 | 109.1 | 32.6 | 7.98 | 1.212 | 52.5 | 0.703 | 1.772 | 97.3 | 199.6 | --- | 3.018 | 5.50 | 0.435 | 55.0 | 283.7 | 4.9 | 0.398 |
| 4-2790 | 4-3370 | 0.723 | 111.1 | 32.4 | 7.52 | 1.216 | 54.1 | 0.693 | 1.804 | 93.8 | 200.7 | --- | 3.053 | 5.62 | 0.442 | 55.2 | 286.8 | 5.2 | 0.394 |
| 4-2790 | 4-3390 | 0.698 | 113.2 | 32.1 | 7.04 | 1.220 | 55.6 | 0.682 | 1.835 | 90.2 | 201.6 | --- | 3.088 | 5.77 | 0.448 | 55.5 | 290.0 | 5.5 | 0.391 |
| 4-2790 | 4-3410 | 0.672 | 115.2 | 31.6 | 6.54 | 1.224 | 57.1 | 0.673 | 1.867 | 86.7 | 202.6 | --- | 3.122 | 5.98 | 0.454 | 55.7 | 293.3 | 5.8 | 0.387 |
| 4-2790 | 4-3430 | 0.647 | 117.3 | 31.0 | 6.00 | 1.227 | 58.6 | 0.664 | 1.897 | 83.1 | 203.5 | --- | 3.156 | 6.23 | 0.459 | 55.9 | 296.6 | 6.2 | 0.384 |
| 4-2790 | 4-3450 | 0.622 | 119.4 | 30.2 | 5.41 | 1.231 | 60.0 | 0.655 | 1.927 | 79.6 | 204.4 | --- | 3.191 | 6.55 | 0.463 | 56.1 | 299.9 | 6.6 | 0.381 |
| 4-2790 | 4-3470 | 0.598 | 121.4 | 29.2 | 4.77 | 1.234 | 61.4 | 0.648 | 1.957 | 76.1 | 205.3 | --- | 3.225 | 6.93 | 0.467 | 56.3 | 303.3 | 7.1 | 0.378 |
| 4-2790 | 4-3490 | 0.574 | 123.4 | 27.9 | 4.05 | 1.237 | 62.8 | 0.641 | 1.986 | 72.7 | 206.1 | --- | 3.259 | 7.41 | 0.471 | 56.4 | 306.7 | 7.7 | 0.376 |
| 4-2790 | 4-3510 | 0.550 | 125.4 | 26.2 | 3.24 | 1.240 | 64.2 | 0.634 | 2.015 | 69.2 | 206.9 | --- | 3.293 | 7.99 | 0.474 | 56.6 | 310.1 | 8.5 | 0.373 |
| 4-2790 | 4-3530 | 0.527 | 127.3 | 24.1 | 2.29 | 1.243 | 65.5 | 0.628 | 2.043 | 65.8 | 207.6 | --- | 3.327 | 8.71 | 0.477 | 56.7 | 313.6 | 9.4 | 0.372 |
| 4-2790 | 4-3550 | 0.505 | 129.0 | 21.3 | 1.16 | 1.245 | 66.8 | 0.623 | 2.071 | 62.4 | 208.3 | --- | 3.361 | 9.63 | 0.480 | 56.8 | 317.1 | 10.4 | 0.370 |
| 4-2790 | 4-3570 | 0.484 | 130.5 | 17.7 | -0.22 | 1.248 | 68.1 | 0.618 | 2.098 | 59.0 | 209.1 | --- | 3.395 | 10.80 | 0.482 | 56.8 | 320.7 | 11.8 | 0.370 |
| 4-2790 | 4-3590 | 0.466 | 131.5 | 12.9 | -1.97 | 1.250 | 69.3 | 0.614 | 2.125 | 55.7 | 209.7 | --- | 3.429 | 12.34 | 0.485 | 56.9 | 324.4 | 13.5 | 0.371 |
| 4-2790 | 4-3610 | 0.453 | 131.8 | 6.3 | -4.27 | 1.252 | 70.6 | 0.610 | 2.151 | 52.5 | 210.4 | --- | 3.464 | 14.45 | 0.487 | 56.9 | 328.3 | 15.8 | 0.374 |
| 4-2790 | 4-3630 | 0.451 | 130.9 | -2.7 | -7.48 | 1.255 | 71.8 | 0.607 | 2.176 | 49.2 | 211.1 | --- | 3.498 | 17.46 | 0.489 | 56.8 | 332.5 | 18.8 | 0.381 |
| 4-2790 | 4-3650 | 0.473 | 127.6 | -14.8 | -12.25 | 1.257 | 72.9 | 0.605 | 2.201 | 46.1 | 211.7 | --- | 3.533 | 22.04 | 0.491 | 56.8 | 337.5 | 23.0 | 0.395 |
| 4-2790 | 4-3670 | 0.553 | 119.4 | -29.3 | -20.08 | 1.259 | 74.0 | 0.603 | 2.226 | 43.2 | 212.3 | --- | 3.568 | 29.68 | 0.493 | 56.7 | 344.0 | 28.5 | 0.427 |
| 4-2790 | 4-3690 | 0.763 | 100.7 | -42.0 | -34.54 | 1.261 | 74.9 | 0.602 | 2.249 | 40.6 | 212.9 | --- | 3.604 | 43.96 | 0.495 | 56.5 | 354.6 | 34.8 | 0.502 |
| 4-2800 | 4-3000 | 1.450 | 80.6 | 28.5 | 55.05 | 1.128 | 8.3 | 0.990 | 1.315 | 169.6 | 179.0 | --- | --- | 47.37 | 0.127 | 150.6 | 257.0 | 4.3 | 0.618 |
| 4-2800 | 4-3020 | 1.393 | 82.9 | 28.9 | 39.00 | 1.124 | 11.1 | 0.982 | 1.300 | 166.1 | 179.4 | --- | --- | 31.61 | 0.096 | 120.0 | 256.1 | 4.3 | 0.580 |
| 4-2800 | 4-3040 | 1.343 | 85.1 | 29.3 | 30.40 | 1.124 | 14.1 | 0.972 | 1.300 | 162.4 | 180.1 | --- | 2.564 | 23.32 | 0.105 | 87.7 | 255.5 | 4.3 | 0.552 |
| 4-2800 | 4-3060 | 1.297 | 87.3 | 29.6 | 25.21 | 1.127 | 17.0 | 0.959 | 1.311 | 158.6 | 180.9 | --- | 2.568 | 18.44 | 0.136 | 69.3 | 255.4 | 4.3 | 0.531 |
| 4-2800 | 4-3080 | 1.255 | 89.4 | 29.9 | 21.75 | 1.131 | 19.8 | 0.945 | 1.328 | 154.8 | 181.9 | --- | 2.583 | 15.29 | 0.170 | 60.1 | 255.7 | 4.3 | 0.514 |
| 4-2800 | 4-3100 | 1.216 | 91.5 | 30.2 | 19.26 | 1.136 | 22.5 | 0.930 | 1.350 | 151.1 | 183.1 | --- | 2.606 | 13.12 | 0.204 | 55.3 | 256.3 | 4.4 | 0.501 |
| 4-2800 | 4-3120 | 1.178 | 93.6 | 30.4 | 17.37 | 1.142 | 25.0 | 0.914 | 1.375 | 147.4 | 184.2 | --- | 2.633 | 11.56 | 0.234 | 52.6 | 257.3 | 4.4 | 0.490 |
| 4-2800 | 4-3140 | 1.143 | 95.6 | 30.6 | 15.87 | 1.149 | 27.5 | 0.898 | 1.403 | 143.7 | 185.5 | --- | 2.663 | 10.40 | 0.262 | 51.1 | 258.7 | 4.4 | 0.481 |
| 4-2800 | 4-3160 | 1.108 | 97.6 | 30.8 | 14.63 | 1.155 | 29.8 | 0.882 | 1.432 | 140.1 | 186.7 | --- | 2.696 | 9.51 | 0.287 | 50.2 | 260.3 | 4.4 | 0.474 |
| 4-2800 | 4-3180 | 1.075 | 99.6 | 30.9 | 13.59 | 1.161 | 32.0 | 0.866 | 1.463 | 136.5 | 188.0 | --- | 2.730 | 8.83 | 0.309 | 49.8 | 262.2 | 4.4 | 0.467 |
| 4-2800 | 4-3200 | 1.042 | 101.6 | 31.0 | 12.68 | 1.168 | 34.1 | 0.850 | 1.495 | 132.8 | 189.3 | --- | 2.765 | 8.29 | 0.329 | 49.7 | 264.3 | 4.5 | 0.461 |
| 4-2800 | 4-3220 | 1.011 | 103.6 | 31.0 | 11.87 | 1.174 | 36.2 | 0.834 | 1.527 | 129.2 | 190.6 | --- | 2.800 | 7.87 | 0.346 | 49.7 | 266.6 | 4.6 | 0.455 |
| 4-2800 | 4-3240 | 0.980 | 105.5 | 31.0 | 11.14 | 1.179 | 38.2 | 0.818 | 1.560 | 125.6 | 191.8 | --- | 2.836 | 7.55 | 0.362 | 49.9 | 269.1 | 4.6 | 0.450 |
| 4-2800 | 4-3260 | 0.949 | 107.4 | 30.9 | 10.46 | 1.185 | 40.1 | 0.803 | 1.593 | 122.0 | 193.0 | --- | 2.873 | 7.30 | 0.377 | 50.2 | 271.7 | 4.7 | 0.445 |
| 4-2800 | 4-3280 | 0.920 | 109.3 | 30.8 | 9.83 | 1.190 | 42.0 | 0.789 | 1.626 | 118.5 | 194.2 | --- | 2.909 | 7.12 | 0.389 | 50.5 | 274.5 | 4.9 | 0.440 |
| 4-2800 | 4-3300 | 0.890 | 111.2 | 30.7 | 9.23 | 1.196 | 43.8 | 0.775 | 1.659 | 114.9 | 195.4 | --- | 2.945 | 7.00 | 0.401 | 50.9 | 277.3 | 5.0 | 0.435 |
| 4-2800 | 4-3320 | 0.862 | 113.1 | 30.5 | 8.65 | 1.201 | 45.6 | 0.761 | 1.693 | 111.3 | 196.6 | --- | 2.981 | 6.93 | 0.411 | 51.2 | 280.3 | 5.2 | 0.430 |
| 4-2800 | 4-3340 | 0.834 | 115.0 | 30.2 | 8.09 | 1.205 | 47.3 | 0.748 | 1.726 | 107.8 | 197.7 | --- | 3.017 | 6.90 | 0.420 | 51.6 | 283.3 | 5.3 | 0.426 |
| 4-2800 | 4-3360 | 0.806 | 116.9 | 29.8 | 7.53 | 1.210 | 48.9 | 0.736 | 1.759 | 104.2 | 198.7 | --- | 3.053 | 6.92 | 0.428 | 52.0 | 286.4 | 5.5 | 0.421 |
| 4-2800 | 4-3380 | 0.779 | 118.8 | 29.4 | 6.97 | 1.214 | 50.6 | 0.724 | 1.791 | 100.7 | 199.8 | --- | 3.088 | 6.99 | 0.435 | 52.4 | 289.6 | 5.8 | 0.417 |
| 4-2800 | 4-3400 | 0.752 | 120.6 | 28.8 | 6.40 | 1.218 | 52.2 | 0.713 | 1.823 | 97.2 | 200.8 | --- | 3.124 | 7.10 | 0.442 | 52.8 | 292.8 | 6.1 | 0.412 |
| 4-2800 | 4-3420 | 0.726 | 122.5 | 28.2 | 5.81 | 1.222 | 53.7 | 0.703 | 1.855 | 93.7 | 201.7 | --- | 3.159 | 7.26 | 0.448 | 53.1 | 296.1 | 6.4 | 0.408 |
| 4-2800 | 4-3440 | 0.700 | 124.3 | 27.4 | 5.21 | 1.226 | 55.2 | 0.693 | 1.887 | 90.2 | 202.7 | --- | 3.194 | 7.47 | 0.453 | 53.5 | 299.3 | 6.7 | 0.404 |
| 4-2800 | 4-3460 | 0.675 | 126.1 | 26.5 | 4.57 | 1.229 | 56.7 | 0.683 | 1.918 | 86.8 | 203.6 | --- | 3.228 | 7.74 | 0.458 | 53.8 | 302.7 | 7.1 | 0.400 |
| 4-2800 | 4-3480 | 0.650 | 127.9 | 25.3 | 3.88 | 1.232 | 58.1 | 0.675 | 1.948 | 83.3 | 204.5 | --- | 3.263 | 8.07 | 0.462 | 54.1 | 306.0 | 7.6 | 0.396 |
| 4-2800 | 4-3500 | 0.625 | 129.6 | 24.0 | 3.14 | 1.236 | 59.5 | 0.667 | 1.978 | 79.9 | 205.3 | --- | 3.297 | 8.48 | 0.466 | 54.3 | 309.4 | 8.2 | 0.393 |
| 4-2800 | 4-3520 | 0.602 | 131.3 | 22.4 | 2.33 | 1.239 | 60.9 | 0.659 | 2.008 | 76.5 | 206.1 | --- | 3.331 | 8.97 | 0.470 | 54.6 | 312.8 | 8.8 | 0.390 |
| 4-2800 | 4-3540 | 0.579 | 132.9 | 20.4 | 1.43 | 1.241 | 62.3 | 0.652 | 2.037 | 73.2 | 206.9 | --- | 3.366 | 9.57 | 0.473 | 54.8 | 316.2 | 9.6 | 0.387 |
| 4-2800 | 4-3560 | 0.556 | 134.3 | 18.1 | 0.40 | 1.244 | 63.6 | 0.646 | 2.065 | 69.9 | 207.7 | --- | 3.399 | 10.31 | 0.476 | 55.0 | 319.7 | 10.5 | 0.385 |
| 4-2800 | 4-3580 | 0.535 | 135.6 | 15.1 | -0.79 | 1.247 | 64.9 | 0.640 | 2.093 | 66.6 | 208.4 | --- | 3.433 | 11.22 | 0.479 | 55.1 | 323.2 | 11.5 | 0.383 |
| 4-2800 | 4-3600 | 0.516 | 136.6 | 11.5 | -2.20 | 1.249 | 66.2 | 0.635 | 2.120 | 63.3 | 209.1 | --- | 3.467 | 12.35 | 0.482 | 55.2 | 326.8 | 12.8 | 0.382 |
| 4-2800 | 4-3620 | 0.500 | 137.2 | 6.9 | -3.91 | 1.252 | 67.4 | 0.630 | 2.147 | 60.1 | 209.8 | --- | 3.501 | 13.80 | 0.484 | 55.3 | 330.5 | 14.4 | 0.382 |
| 4-2800 | 4-3640 | 0.489 | 137.2 | 1.2 | -6.05 | 1.254 | 68.7 | 0.626 | 2.173 | 56.9 | 210.5 | --- | 3.534 | 15.69 | 0.487 | 55.4 | 334.3 | 16.4 | 0.385 |
| 4-2800 | 4-3660 | 0.487 | 136.3 | -6.1 | -8.82 | 1.256 | 69.8 | 0.623 | 2.199 | 53.8 | 211.1 | --- | 3.568 | 18.21 | 0.489 | 55.4 | 338.4 | 18.8 | 0.390 |
| 4-2800 | 4-3680 | 0.502 | 133.7 | -15.1 | -12.60 | 1.258 | 71.0 | 0.620 | 2.224 | 50.7 | 211.8 | --- | 3.602 | 21.75 | 0.491 | 55.4 | 342.9 | 22.0 | 0.400 |
| 4-2800 | 4-3700 | 0.547 | 128.2 | -25.6 | -18.03 | 1.260 | 72.1 | 0.617 | 2.249 | 47.8 | 212.4 | --- | 3.636 | 26.94 | 0.493 | 55.4 | 348.3 | 26.1 | 0.419 |
| 4-2810 | 4-3030 | 1.476 | 90.3 | 28.9 | 72.63 | 1.120 | 7.6 | 0.992 | 1.291 | 170.6 | 179.6 | --- | --- | 66.16 | 0.071 | 127.5 | 257.5 | 4.7 | 0.628 |
| 4-2810 | 4-3050 | 1.423 | 92.7 | 29.1 | 50.00 | 1.120 | 9.5 | 0.987 | 1.290 | 168.2 | 180.1 | --- | 2.562 | 43.89 | 0.072 | 81.4 | 257.2 | 4.7 | 0.598 |
| 4-2810 | 4-3070 | 1.375 | 95.0 | 29.3 | 37.26 | 1.122 | 12.1 | 0.979 | 1.298 | 164.9 | 180.8 | --- | 2.570 | 31.51 | 0.107 | 58.4 | 257.2 | 4.7 | 0.575 |
| 4-2810 | 4-3090 | 1.331 | 97.3 | 29.5 | 29.72 | 1.127 | 14.9 | 0.969 | 1.315 | 161.3 | 181.6 | --- | 2.588 | 24.34 | 0.146 | 49.9 | 257.7 | 4.7 | 0.556 |
| 4-2810 | 4-3110 | 1.289 | 99.5 | 29.6 | 24.83 | 1.132 | 17.6 | 0.956 | 1.336 | 157.6 | 182.5 | --- | 2.613 | 19.82 | 0.183 | 46.3 | 258.5 | 4.7 | 0.542 |
| 4-2810 | 4-3130 | 1.250 | 101.6 | 29.6 | 21.41 | 1.138 | 20.3 | 0.943 | 1.360 | 153.9 | 183.6 | --- | 2.643 | 16.78 | 0.216 | 44.7 | 259.7 | 4.7 | 0.529 |
| 4-2810 | 4-3150 | 1.213 | 103.7 | 29.7 | 18.87 | 1.144 | 22.8 | 0.929 | 1.388 | 150.3 | 184.7 | --- | 2.676 | 14.62 | 0.245 | 44.1 | 261.1 | 4.8 | 0.519 |
| 4-2810 | 4-3170 | 1.177 | 105.8 | 29.6 | 16.89 | 1.151 | 25.2 | 0.914 | 1.417 | 146.6 | 185.9 | --- | 2.711 | 13.04 | 0.271 | 43.9 | 262.9 | 4.8 | 0.510 |
| 4-2810 | 4-3190 | 1.142 | 107.8 | 29.6 | 15.29 | 1.157 | 27.6 | 0.899 | 1.447 | 143.0 | 187.1 | --- | 2.748 | 11.84 | 0.295 | 44.1 | 264.8 | 4.8 | 0.502 |
| 4-2810 | 4-3210 | 1.108 | 109.7 | 29.5 | 13.94 | 1.163 | 29.8 | 0.883 | 1.479 | 139.4 | 188.4 | --- | 2.785 | 10.92 | 0.316 | 44.4 | 267.0 | 4.9 | 0.494 |
| 4-2810 | 4-3230 | 1.075 | 111.7 | 29.4 | 12.79 | 1.170 | 32.0 | 0.868 | 1.511 | 135.8 | 189.6 | --- | 2.823 | 10.20 | 0.335 | 44.9 | 269.4 | 4.9 | 0.487 |
| 4-2810 | 4-3250 | 1.043 | 113.6 | 29.2 | 11.78 | 1.176 | 34.1 | 0.853 | 1.544 | 132.2 | 190.8 | --- | 2.861 | 9.64 | 0.351 | 45.4 | 271.9 | 5.0 | 0.481 |
| 4-2810 | 4-3270 | 1.012 | 115.5 | 29.0 | 10.88 | 1.181 | 36.1 | 0.838 | 1.577 | 128.6 | 192.0 | --- | 2.899 | 9.20 | 0.366 | 46.0 | 274.6 | 5.1 | 0.475 |
| 4-2810 | 4-3290 | 0.981 | 117.3 | 28.7 | 10.05 | 1.187 | 38.0 | 0.823 | 1.611 | 125.1 | 193.2 | --- | 2.937 | 8.86 | 0.380 | 46.5 | 277.4 | 5.2 | 0.469 |
| 4-2810 | 4-3310 | 0.951 | 119.2 | 28.4 | 9.29 | 1.192 | 39.9 | 0.809 | 1.645 | 121.5 | 194.4 | --- | 2.975 | 8.60 | 0.392 | 47.1 | 280.3 | 5.3 | 0.463 |
| 4-2810 | 4-3330 | 0.921 | 121.0 | 28.0 | 8.56 | 1.197 | 41.8 | 0.795 | 1.678 | 118.0 | 195.5 | --- | 3.013 | 8.42 | 0.402 | 47.7 | 283.2 | 5.5 | 0.457 |
| 4-2810 | 4-3350 | 0.892 | 122.7 | 27.5 | 7.88 | 1.202 | 43.5 | 0.782 | 1.712 | 114.5 | 196.6 | --- | 3.050 | 8.29 | 0.412 | 48.3 | 286.3 | 5.6 | 0.451 |
| 4-2810 | 4-3370 | 0.864 | 124.5 | 27.0 | 7.21 | 1.207 | 45.3 | 0.769 | 1.745 | 111.0 | 197.7 | --- | 3.087 | 8.23 | 0.421 | 48.9 | 289.4 | 5.8 | 0.446 |
| 4-2810 | 4-3390 | 0.836 | 126.2 | 26.4 | 6.55 | 1.211 | 47.0 | 0.756 | 1.778 | 107.5 | 198.8 | --- | 3.123 | 8.22 | 0.428 | 49.4 | 292.5 | 6.1 | 0.440 |
| 4-2810 | 4-3410 | 0.809 | 127.9 | 25.8 | 5.91 | 1.216 | 48.6 | 0.745 | 1.811 | 104.1 | 199.8 | --- | 3.160 | 8.26 | 0.435 | 49.9 | 295.7 | 6.3 | 0.435 |
| 4-2810 | 4-3430 | 0.782 | 129.6 | 25.0 | 5.25 | 1.220 | 50.2 | 0.733 | 1.844 | 100.6 | 200.7 | --- | 3.195 | 8.35 | 0.442 | 50.4 | 298.9 | 6.6 | 0.430 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2810 | 4-3450 | 0.755 | 131.3 | 24.1 | 4.59 | 1.223 | 51.7 | 0.723 | 1.876 | 97.2 | 201.7 | --- | 3.231 | 8.49 | 0.447 | 50.9 | 302.2 | 6.9 | 0.425 |
| 4-2810 | 4-3470 | 0.730 | 132.9 | 23.1 | 3.91 | 1.227 | 53.3 | 0.713 | 1.907 | 93.8 | 202.6 | --- | 3.266 | 8.68 | 0.453 | 51.3 | 305.5 | 7.3 | 0.420 |
| 4-2810 | 4-3490 | 0.704 | 134.5 | 22.0 | 3.20 | 1.230 | 54.8 | 0.703 | 1.938 | 90.4 | 203.5 | --- | 3.301 | 8.94 | 0.457 | 51.7 | 308.8 | 7.7 | 0.415 |
| 4-2810 | 4-3510 | 0.680 | 136.0 | 20.6 | 2.45 | 1.234 | 56.2 | 0.694 | 1.969 | 87.1 | 204.4 | --- | 3.336 | 9.26 | 0.462 | 52.1 | 312.1 | 8.2 | 0.411 |
| 4-2810 | 4-3530 | 0.656 | 137.4 | 19.1 | 1.66 | 1.237 | 57.6 | 0.686 | 1.999 | 83.7 | 205.2 | --- | 3.370 | 9.65 | 0.466 | 52.4 | 315.5 | 8.7 | 0.407 |
| 4-2810 | 4-3550 | 0.632 | 138.8 | 17.3 | 0.80 | 1.240 | 59.0 | 0.678 | 2.029 | 80.4 | 206.0 | --- | 3.405 | 10.12 | 0.469 | 52.7 | 318.9 | 9.4 | 0.403 |
| 4-2810 | 4-3570 | 0.610 | 140.1 | 15.3 | -0.14 | 1.243 | 60.4 | 0.671 | 2.058 | 77.2 | 206.8 | --- | 3.438 | 10.70 | 0.472 | 53.0 | 322.3 | 10.1 | 0.400 |
| 4-2810 | 4-3590 | 0.589 | 141.2 | 12.9 | -1.19 | 1.245 | 61.7 | 0.664 | 2.087 | 73.9 | 207.6 | --- | 3.472 | 11.40 | 0.476 | 53.2 | 325.7 | 10.9 | 0.397 |
| 4-2810 | 4-3610 | 0.569 | 142.2 | 10.0 | -2.38 | 1.248 | 63.0 | 0.658 | 2.115 | 70.7 | 208.3 | --- | 3.506 | 12.25 | 0.479 | 53.4 | 329.2 | 11.9 | 0.394 |
| 4-2810 | 4-3630 | 0.551 | 142.9 | 6.6 | -3.75 | 1.250 | 64.3 | 0.652 | 2.142 | 67.5 | 209.1 | --- | 3.539 | 13.29 | 0.481 | 53.6 | 332.8 | 13.1 | 0.393 |
| 4-2810 | 4-3650 | 0.536 | 143.3 | 2.4 | -5.35 | 1.252 | 65.5 | 0.647 | 2.169 | 64.4 | 209.8 | --- | 3.572 | 14.58 | 0.484 | 53.8 | 336.4 | 14.5 | 0.392 |
| 4-2810 | 4-3670 | 0.525 | 143.2 | -2.5 | -7.28 | 1.255 | 66.7 | 0.642 | 2.195 | 61.3 | 210.5 | --- | 3.606 | 16.20 | 0.487 | 53.9 | 340.2 | 16.2 | 0.393 |
| 4-2810 | 4-3690 | 0.521 | 142.3 | -8.4 | -9.68 | 1.257 | 67.9 | 0.638 | 2.221 | 58.2 | 211.1 | --- | 3.639 | 18.30 | 0.489 | 54.0 | 344.1 | 18.3 | 0.397 |
| 4-2810 | 4-3710 | 0.529 | 140.3 | -15.5 | -12.73 | 1.259 | 69.0 | 0.635 | 2.246 | 55.2 | 211.8 | --- | 3.672 | 21.06 | 0.492 | 54.0 | 348.3 | 20.8 | 0.403 |
| 4-2820 | 4-3060 | 1.500 | 100.3 | 28.7 | 89.44 | 1.117 | 7.5 | 0.992 | 1.286 | 170.8 | 180.1 | --- | 2.561 | 84.34 | 0.058 | 76.5 | 259.2 | 5.0 | 0.645 |
| 4-2820 | 4-3080 | 1.450 | 102.7 | 28.7 | 62.41 | 1.119 | 8.4 | 0.990 | 1.292 | 169.6 | 180.6 | --- | 2.570 | 57.71 | 0.087 | 46.3 | 259.5 | 4.9 | 0.620 |
| 4-2820 | 4-3100 | 1.404 | 105.1 | 28.7 | 45.04 | 1.123 | 10.5 | 0.984 | 1.306 | 166.9 | 181.2 | --- | 2.591 | 40.75 | 0.127 | 38.3 | 260.1 | 4.9 | 0.599 |
| 4-2820 | 4-3120 | 1.361 | 107.4 | 28.6 | 34.64 | 1.128 | 13.0 | 0.976 | 1.325 | 163.6 | 182.0 | --- | 2.619 | 30.76 | 0.165 | 36.3 | 261.0 | 4.9 | 0.583 |
| 4-2820 | 4-3140 | 1.320 | 109.6 | 28.5 | 28.04 | 1.134 | 15.6 | 0.966 | 1.349 | 160.1 | 182.9 | --- | 2.652 | 24.58 | 0.200 | 36.1 | 262.3 | 4.9 | 0.569 |
| 4-2820 | 4-3160 | 1.281 | 111.7 | 28.4 | 23.54 | 1.140 | 18.2 | 0.954 | 1.375 | 156.5 | 183.9 | --- | 2.688 | 20.49 | 0.230 | 36.5 | 263.9 | 4.9 | 0.557 |
| 4-2820 | 4-3180 | 1.244 | 113.7 | 28.2 | 20.26 | 1.146 | 20.7 | 0.941 | 1.404 | 152.9 | 185.0 | --- | 2.725 | 17.65 | 0.258 | 37.1 | 265.7 | 5.0 | 0.546 |
| 4-2820 | 4-3200 | 1.208 | 115.8 | 28.0 | 17.76 | 1.153 | 23.1 | 0.928 | 1.434 | 149.3 | 186.1 | --- | 2.764 | 15.59 | 0.282 | 37.9 | 267.7 | 5.0 | 0.537 |
| 4-2820 | 4-3220 | 1.173 | 117.7 | 27.7 | 15.77 | 1.159 | 25.4 | 0.914 | 1.465 | 145.7 | 187.3 | --- | 2.804 | 14.04 | 0.304 | 38.8 | 270.0 | 5.0 | 0.528 |
| 4-2820 | 4-3240 | 1.140 | 119.6 | 27.5 | 14.13 | 1.166 | 27.7 | 0.899 | 1.497 | 142.2 | 188.5 | --- | 2.844 | 12.86 | 0.323 | 39.7 | 272.4 | 5.1 | 0.520 |
| 4-2820 | 4-3260 | 1.106 | 121.5 | 27.1 | 12.75 | 1.172 | 29.9 | 0.885 | 1.530 | 138.6 | 189.7 | --- | 2.884 | 11.95 | 0.341 | 40.6 | 275.0 | 5.1 | 0.512 |
| 4-2820 | 4-3280 | 1.074 | 123.3 | 26.8 | 11.54 | 1.178 | 32.0 | 0.870 | 1.563 | 135.1 | 190.9 | --- | 2.924 | 11.23 | 0.356 | 41.5 | 277.6 | 5.2 | 0.505 |
| 4-2820 | 4-3300 | 1.043 | 125.1 | 26.3 | 10.47 | 1.183 | 34.0 | 0.856 | 1.597 | 131.5 | 192.0 | --- | 2.964 | 10.66 | 0.370 | 42.3 | 280.4 | 5.3 | 0.498 |
| 4-2820 | 4-3320 | 1.012 | 126.9 | 25.9 | 9.51 | 1.189 | 36.0 | 0.842 | 1.631 | 128.0 | 193.2 | --- | 3.004 | 10.22 | 0.383 | 43.2 | 283.3 | 5.4 | 0.490 |
| 4-2820 | 4-3340 | 0.981 | 128.6 | 25.4 | 8.62 | 1.194 | 37.9 | 0.828 | 1.665 | 124.5 | 194.3 | --- | 3.043 | 9.88 | 0.394 | 44.0 | 286.3 | 5.6 | 0.484 |
| 4-2820 | 4-3360 | 0.952 | 130.3 | 24.8 | 7.79 | 1.199 | 39.7 | 0.814 | 1.698 | 121.1 | 195.4 | --- | 3.081 | 9.63 | 0.404 | 44.8 | 289.3 | 5.7 | 0.477 |
| 4-2820 | 4-3380 | 0.923 | 131.9 | 24.2 | 7.01 | 1.204 | 41.5 | 0.801 | 1.732 | 117.6 | 196.5 | --- | 3.120 | 9.45 | 0.413 | 45.5 | 292.4 | 5.9 | 0.470 |
| 4-2820 | 4-3400 | 0.894 | 133.5 | 23.5 | 6.26 | 1.208 | 43.3 | 0.788 | 1.765 | 114.2 | 197.6 | --- | 3.157 | 9.33 | 0.421 | 46.2 | 295.5 | 6.1 | 0.464 |
| 4-2820 | 4-3420 | 0.866 | 135.1 | 22.7 | 5.53 | 1.213 | 45.0 | 0.776 | 1.799 | 110.8 | 198.6 | --- | 3.195 | 9.28 | 0.429 | 46.9 | 298.7 | 6.3 | 0.458 |
| 4-2820 | 4-3440 | 0.839 | 136.7 | 21.9 | 4.81 | 1.217 | 46.6 | 0.764 | 1.832 | 107.4 | 199.6 | --- | 3.231 | 9.28 | 0.435 | 47.5 | 301.9 | 6.6 | 0.451 |
| 4-2820 | 4-3460 | 0.812 | 138.2 | 20.9 | 4.10 | 1.221 | 48.2 | 0.753 | 1.864 | 104.0 | 200.6 | --- | 3.268 | 9.33 | 0.441 | 48.1 | 305.1 | 6.9 | 0.446 |
| 4-2820 | 4-3480 | 0.786 | 139.6 | 19.9 | 3.38 | 1.224 | 49.8 | 0.742 | 1.896 | 100.7 | 201.5 | --- | 3.304 | 9.44 | 0.447 | 48.6 | 308.4 | 7.2 | 0.440 |
| 4-2820 | 4-3500 | 0.761 | 141.0 | 18.8 | 2.65 | 1.228 | 51.3 | 0.732 | 1.928 | 97.4 | 202.4 | --- | 3.339 | 9.60 | 0.452 | 49.2 | 311.7 | 7.5 | 0.434 |
| 4-2820 | 4-3520 | 0.736 | 142.4 | 17.5 | 1.90 | 1.231 | 52.8 | 0.722 | 1.959 | 94.1 | 203.3 | --- | 3.375 | 9.83 | 0.457 | 49.6 | 315.0 | 8.0 | 0.429 |
| 4-2820 | 4-3540 | 0.711 | 143.7 | 16.1 | 1.12 | 1.234 | 54.2 | 0.713 | 1.990 | 90.8 | 204.2 | --- | 3.409 | 10.11 | 0.461 | 50.1 | 318.3 | 8.4 | 0.424 |
| 4-2820 | 4-3560 | 0.688 | 145.0 | 14.5 | 0.30 | 1.238 | 55.7 | 0.705 | 2.020 | 87.5 | 205.0 | --- | 3.444 | 10.46 | 0.465 | 50.5 | 321.6 | 8.9 | 0.419 |
| 4-2820 | 4-3580 | 0.665 | 146.1 | 12.6 | -0.57 | 1.240 | 57.0 | 0.697 | 2.050 | 84.3 | 205.9 | --- | 3.478 | 10.90 | 0.468 | 50.8 | 325.0 | 9.5 | 0.415 |
| 4-2820 | 4-3600 | 0.643 | 147.2 | 10.6 | -1.52 | 1.243 | 58.4 | 0.689 | 2.079 | 81.1 | 206.7 | --- | 3.512 | 11.42 | 0.472 | 51.2 | 328.4 | 10.2 | 0.411 |
| 4-2820 | 4-3620 | 0.622 | 148.1 | 8.2 | -2.55 | 1.246 | 59.7 | 0.682 | 2.108 | 78.0 | 207.4 | --- | 3.545 | 12.05 | 0.475 | 51.5 | 331.8 | 11.0 | 0.408 |
| 4-2820 | 4-3640 | 0.603 | 148.9 | 5.5 | -3.69 | 1.248 | 61.0 | 0.675 | 2.136 | 74.8 | 208.2 | --- | 3.578 | 12.80 | 0.478 | 51.7 | 335.2 | 11.9 | 0.405 |
| 4-2820 | 4-3660 | 0.586 | 149.4 | 2.4 | -4.98 | 1.251 | 62.3 | 0.669 | 2.163 | 71.7 | 208.9 | --- | 3.611 | 13.72 | 0.481 | 52.0 | 338.7 | 12.9 | 0.402 |
| 4-2820 | 4-3680 | 0.571 | 149.7 | -1.3 | -6.46 | 1.253 | 63.5 | 0.664 | 2.190 | 68.6 | 209.7 | --- | 3.644 | 14.84 | 0.484 | 52.2 | 342.3 | 14.1 | 0.401 |
| 4-2820 | 4-3700 | 0.560 | 149.5 | -5.5 | -8.18 | 1.255 | 64.7 | 0.659 | 2.217 | 65.6 | 210.4 | --- | 3.677 | 16.21 | 0.487 | 52.4 | 345.9 | 15.6 | 0.401 |
| 4-2820 | 4-3720 | 0.554 | 148.8 | -10.4 | -10.24 | 1.257 | 65.9 | 0.654 | 2.243 | 62.6 | 211.1 | --- | 3.709 | 17.93 | 0.490 | 52.5 | 349.7 | 17.3 | 0.402 |
| 4-2830 | 4-3070 | 1.460 | 11.8 | -0.4 | -52.19 | 1.131 | 171.8 | 0.991 | 1.347 | 190.4 | 538.3 | 0.013 | --- | -56.24 | 0.198 | 161.7 | 279.8 | -4.6 | 0.646 |
| 4-2830 | 4-3110 | 1.474 | 112.9 | 27.6 | 75.64 | 1.120 | 7.8 | 0.991 | 1.302 | 170.4 | 180.9 | --- | 2.593 | 72.46 | 0.118 | 29.7 | 262.8 | 5.0 | 0.642 |
| 4-2830 | 4-3130 | 1.430 | 115.2 | 27.3 | 53.86 | 1.124 | 9.2 | 0.988 | 1.320 | 168.5 | 181.4 | --- | 2.623 | 51.12 | 0.154 | 26.8 | 263.9 | 5.0 | 0.624 |
| 4-2830 | 4-3150 | 1.388 | 117.4 | 27.1 | 40.08 | 1.130 | 11.4 | 0.982 | 1.341 | 165.6 | 182.1 | --- | 2.658 | 37.79 | 0.188 | 27.2 | 265.2 | 5.0 | 0.608 |
| 4-2830 | 4-3170 | 1.348 | 119.5 | 26.8 | 31.42 | 1.136 | 13.8 | 0.973 | 1.366 | 162.4 | 183.0 | --- | 2.697 | 29.57 | 0.219 | 28.5 | 266.9 | 5.0 | 0.595 |
| 4-2830 | 4-3190 | 1.310 | 121.6 | 26.5 | 25.65 | 1.142 | 16.2 | 0.963 | 1.394 | 158.9 | 184.0 | --- | 2.737 | 24.25 | 0.246 | 30.0 | 268.7 | 5.0 | 0.583 |
| 4-2830 | 4-3210 | 1.273 | 123.6 | 26.1 | 21.56 | 1.149 | 18.7 | 0.952 | 1.423 | 155.4 | 185.1 | --- | 2.779 | 20.61 | 0.271 | 31.4 | 270.8 | 5.0 | 0.572 |
| 4-2830 | 4-3230 | 1.238 | 125.5 | 25.7 | 18.49 | 1.155 | 21.1 | 0.940 | 1.454 | 151.9 | 186.2 | --- | 2.821 | 18.01 | 0.293 | 32.9 | 273.1 | 5.0 | 0.562 |
| 4-2830 | 4-3250 | 1.203 | 127.4 | 25.3 | 16.10 | 1.162 | 23.4 | 0.927 | 1.486 | 148.4 | 187.3 | --- | 2.863 | 16.09 | 0.313 | 34.2 | 275.5 | 5.1 | 0.553 |
| 4-2830 | 4-3270 | 1.169 | 129.2 | 24.8 | 14.16 | 1.168 | 25.7 | 0.914 | 1.518 | 144.8 | 188.5 | --- | 2.905 | 14.62 | 0.331 | 35.5 | 278.1 | 5.1 | 0.544 |
| 4-2830 | 4-3290 | 1.137 | 131.0 | 24.4 | 12.53 | 1.174 | 27.8 | 0.900 | 1.551 | 141.3 | 189.6 | --- | 2.947 | 13.50 | 0.347 | 36.7 | 280.8 | 5.2 | 0.535 |
| 4-2830 | 4-3310 | 1.104 | 132.7 | 23.8 | 11.14 | 1.179 | 29.9 | 0.887 | 1.584 | 137.9 | 190.8 | --- | 2.989 | 12.61 | 0.361 | 37.9 | 283.6 | 5.3 | 0.527 |
| 4-2830 | 4-3330 | 1.073 | 134.4 | 23.2 | 9.92 | 1.185 | 32.0 | 0.873 | 1.618 | 134.4 | 191.9 | --- | 3.030 | 11.92 | 0.374 | 39.0 | 286.5 | 5.4 | 0.519 |
| 4-2830 | 4-3350 | 1.042 | 136.0 | 22.6 | 8.83 | 1.190 | 33.9 | 0.859 | 1.652 | 130.9 | 193.0 | --- | 3.071 | 11.37 | 0.385 | 40.0 | 289.4 | 5.5 | 0.511 |
| 4-2830 | 4-3370 | 1.012 | 137.6 | 22.0 | 7.84 | 1.195 | 35.9 | 0.846 | 1.686 | 127.5 | 194.2 | --- | 3.111 | 10.94 | 0.396 | 41.0 | 292.4 | 5.6 | 0.503 |
| 4-2830 | 4-3390 | 0.982 | 139.2 | 21.3 | 6.93 | 1.200 | 37.7 | 0.833 | 1.719 | 124.1 | 195.2 | --- | 3.151 | 10.61 | 0.405 | 41.9 | 295.5 | 5.8 | 0.495 |
| 4-2830 | 4-3410 | 0.954 | 140.7 | 20.5 | 6.07 | 1.205 | 39.5 | 0.820 | 1.753 | 120.7 | 196.3 | --- | 3.190 | 10.36 | 0.414 | 42.8 | 298.6 | 5.9 | 0.488 |
| 4-2830 | 4-3430 | 0.925 | 142.1 | 19.7 | 5.25 | 1.209 | 41.3 | 0.807 | 1.786 | 117.4 | 197.3 | --- | 3.229 | 10.19 | 0.422 | 43.6 | 301.7 | 6.1 | 0.481 |
| 4-2830 | 4-3450 | 0.897 | 143.6 | 18.8 | 4.47 | 1.214 | 43.0 | 0.795 | 1.820 | 114.0 | 198.4 | --- | 3.267 | 10.08 | 0.429 | 44.4 | 304.9 | 6.4 | 0.474 |
| 4-2830 | 4-3470 | 0.870 | 145.0 | 17.8 | 3.70 | 1.218 | 44.6 | 0.784 | 1.852 | 110.7 | 199.3 | --- | 3.304 | 10.04 | 0.435 | 45.1 | 308.1 | 6.6 | 0.467 |
| 4-2830 | 4-3490 | 0.844 | 146.3 | 16.8 | 2.95 | 1.221 | 46.2 | 0.772 | 1.885 | 107.4 | 200.3 | --- | 3.341 | 10.05 | 0.441 | 45.8 | 311.3 | 6.9 | 0.460 |
| 4-2830 | 4-3510 | 0.818 | 147.6 | 15.7 | 2.20 | 1.225 | 47.8 | 0.762 | 1.917 | 104.1 | 201.2 | --- | 3.377 | 10.11 | 0.446 | 46.4 | 314.6 | 7.2 | 0.454 |
| 4-2830 | 4-3530 | 0.793 | 148.9 | 14.4 | 1.44 | 1.228 | 49.3 | 0.751 | 1.949 | 100.9 | 202.2 | --- | 3.413 | 10.23 | 0.451 | 47.0 | 317.8 | 7.5 | 0.448 |
| 4-2830 | 4-3550 | 0.768 | 150.1 | 13.1 | 0.67 | 1.232 | 50.8 | 0.742 | 1.980 | 97.7 | 203.0 | --- | 3.448 | 10.41 | 0.456 | 47.6 | 321.1 | 7.9 | 0.442 |
| 4-2830 | 4-3570 | 0.744 | 151.2 | 11.6 | -0.12 | 1.235 | 52.2 | 0.732 | 2.011 | 94.5 | 203.9 | --- | 3.483 | 10.65 | 0.460 | 48.1 | 324.4 | 8.3 | 0.436 |
| 4-2830 | 4-3590 | 0.721 | 152.3 | 10.0 | -0.94 | 1.238 | 53.7 | 0.723 | 2.041 | 91.3 | 204.8 | --- | 3.517 | 10.95 | 0.464 | 48.5 | 327.7 | 8.8 | 0.431 |
| 4-2830 | 4-3610 | 0.699 | 153.3 | 8.2 | -1.81 | 1.241 | 55.1 | 0.715 | 2.071 | 88.2 | 205.6 | --- | 3.551 | 11.32 | 0.468 | 49.0 | 331.0 | 9.4 | 0.426 |
| 4-2830 | 4-3630 | 0.677 | 154.2 | 6.2 | -2.73 | 1.243 | 56.4 | 0.707 | 2.100 | 85.1 | 206.4 | --- | 3.585 | 11.77 | 0.471 | 49.4 | 334.4 | 10.0 | 0.422 |
| 4-2830 | 4-3650 | 0.657 | 155.0 | 4.0 | -3.72 | 1.246 | 57.7 | 0.700 | 2.128 | 82.0 | 207.2 | --- | 3.618 | 12.31 | 0.475 | 49.7 | 337.7 | 10.7 | 0.418 |
| 4-2830 | 4-3670 | 0.638 | 155.6 | 1.5 | -4.80 | 1.248 | 59.0 | 0.693 | 2.157 | 78.9 | 208.0 | --- | 3.651 | 12.97 | 0.478 | 50.0 | 341.1 | 11.5 | 0.414 |
| 4-2830 | 4-3690 | 0.621 | 156.1 | -1.3 | -5.99 | 1.251 | 60.3 | 0.687 | 2.184 | 75.9 | 208.7 | --- | 3.684 | 13.75 | 0.481 | 50.3 | 344.6 | 12.4 | 0.411 |
| 4-2830 | 4-3710 | 0.606 | 156.3 | -4.5 | -7.33 | 1.253 | 61.6 | 0.680 | 2.211 | 72.9 | 209.5 | --- | 3.716 | 14.69 | 0.484 | 50.6 | 348.1 | 13.4 | 0.409 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2830 | 4-3730 | 0.594 | 156.2 | -8.2 | -8.86 | 1.255 | 62.8 | 0.675 | 2.238 | 69.9 | 210.2 | --- | 3.748 | 15.84 | 0.487 | 50.8 | 351.6 | 14.7 | 0.407 |
| 4-2840 | 4-3060 | 1.379 | 16.5 | 1.9 | -25.56 | 1.154 | 166.8 | 0.976 | 1.461 | 197.5 | 535.5 | 0.035 | --- | -29.01 | 0.311 | 160.8 | 288.1 | -4.5 | 0.637 |
| 4-2840 | 4-3080 | 1.393 | 18.5 | 2.1 | -33.49 | 1.133 | 168.1 | 0.980 | 1.361 | 195.2 | 537.3 | 0.027 | --- | -36.46 | 0.217 | 155.4 | 284.0 | -5.0 | 0.612 |
| 4-2840 | 4-3100 | 1.423 | 20.4 | 2.4 | -45.75 | 1.120 | 169.8 | 0.985 | 1.312 | 192.8 | 538.7 | 0.020 | --- | -48.26 | 0.140 | 146.6 | 280.8 | -5.4 | 0.611 |
| 4-2840 | 4-3120 | 1.465 | 22.5 | 2.9 | -64.96 | 1.115 | 171.2 | 0.989 | 1.291 | 190.9 | 539.5 | 0.014 | --- | -67.01 | 0.083 | 127.3 | 279.0 | -5.6 | 0.627 |
| 4-2840 | 4-3160 | 1.454 | 125.1 | 25.3 | 63.85 | 1.127 | 8.1 | 0.991 | 1.338 | 169.7 | 181.6 | --- | 2.663 | 62.72 | 0.181 | 20.0 | 268.3 | 4.9 | 0.647 |
| 4-2840 | 4-3180 | 1.413 | 127.2 | 24.9 | 46.26 | 1.133 | 9.9 | 0.986 | 1.361 | 167.4 | 182.2 | --- | 2.704 | 45.58 | 0.210 | 20.9 | 270.0 | 4.9 | 0.632 |
| 4-2840 | 4-3200 | 1.375 | 129.2 | 24.5 | 35.10 | 1.139 | 12.0 | 0.980 | 1.387 | 164.5 | 183.0 | --- | 2.746 | 34.88 | 0.237 | 22.7 | 271.9 | 4.9 | 0.619 |
| 4-2840 | 4-3220 | 1.337 | 131.2 | 24.0 | 27.81 | 1.145 | 14.4 | 0.971 | 1.415 | 161.2 | 184.0 | --- | 2.790 | 28.05 | 0.261 | 24.7 | 274.1 | 4.9 | 0.607 |
| 4-2840 | 4-3240 | 1.301 | 133.1 | 23.5 | 22.77 | 1.151 | 16.8 | 0.962 | 1.445 | 157.8 | 185.0 | --- | 2.835 | 23.48 | 0.283 | 26.7 | 276.4 | 4.9 | 0.596 |
| 4-2840 | 4-3260 | 1.266 | 134.9 | 22.9 | 19.08 | 1.158 | 19.1 | 0.951 | 1.476 | 154.4 | 186.1 | --- | 2.879 | 20.27 | 0.303 | 28.5 | 278.8 | 4.9 | 0.585 |
| 4-2840 | 4-3280 | 1.232 | 136.7 | 22.4 | 16.26 | 1.164 | 21.4 | 0.939 | 1.508 | 150.9 | 187.2 | --- | 2.924 | 17.92 | 0.321 | 30.2 | 281.4 | 5.0 | 0.575 |
| 4-2840 | 4-3300 | 1.198 | 138.4 | 21.8 | 14.01 | 1.170 | 23.7 | 0.927 | 1.540 | 147.5 | 188.3 | --- | 2.968 | 16.16 | 0.337 | 31.7 | 284.1 | 5.0 | 0.565 |
| 4-2840 | 4-3320 | 1.166 | 140.1 | 21.1 | 12.16 | 1.176 | 25.8 | 0.914 | 1.573 | 144.0 | 189.4 | --- | 3.012 | 14.81 | 0.352 | 33.2 | 286.8 | 5.1 | 0.556 |
| 4-2840 | 4-3340 | 1.134 | 141.7 | 20.5 | 10.59 | 1.181 | 27.9 | 0.902 | 1.607 | 140.6 | 190.5 | --- | 3.055 | 13.75 | 0.365 | 34.6 | 289.7 | 5.2 | 0.547 |
| 4-2840 | 4-3360 | 1.103 | 143.2 | 19.8 | 9.24 | 1.187 | 30.0 | 0.889 | 1.640 | 137.2 | 191.7 | --- | 3.098 | 12.92 | 0.377 | 35.8 | 292.6 | 5.3 | 0.538 |
| 4-2840 | 4-3380 | 1.072 | 144.8 | 19.0 | 8.04 | 1.192 | 31.9 | 0.876 | 1.674 | 133.8 | 192.8 | --- | 3.139 | 12.26 | 0.388 | 37.0 | 295.6 | 5.4 | 0.529 |
| 4-2840 | 4-3400 | 1.042 | 146.2 | 18.3 | 6.96 | 1.197 | 33.8 | 0.863 | 1.707 | 130.5 | 193.8 | --- | 3.181 | 11.74 | 0.398 | 38.1 | 298.7 | 5.5 | 0.521 |
| 4-2840 | 4-3420 | 1.013 | 147.7 | 17.4 | 5.97 | 1.201 | 35.7 | 0.850 | 1.741 | 127.1 | 194.9 | --- | 3.221 | 11.33 | 0.407 | 39.2 | 301.7 | 5.7 | 0.512 |
| 4-2840 | 4-3440 | 0.985 | 149.1 | 16.6 | 5.05 | 1.206 | 37.5 | 0.838 | 1.775 | 123.8 | 196.0 | --- | 3.261 | 11.02 | 0.415 | 40.2 | 304.9 | 5.8 | 0.504 |
| 4-2840 | 4-3460 | 0.957 | 150.4 | 15.7 | 4.19 | 1.210 | 39.2 | 0.826 | 1.808 | 120.5 | 197.0 | --- | 3.300 | 10.78 | 0.422 | 41.1 | 308.0 | 6.0 | 0.496 |
| 4-2840 | 4-3480 | 0.929 | 151.7 | 14.7 | 3.37 | 1.214 | 40.9 | 0.814 | 1.841 | 117.3 | 198.0 | --- | 3.339 | 10.62 | 0.429 | 42.0 | 311.2 | 6.2 | 0.489 |
| 4-2840 | 4-3500 | 0.902 | 153.0 | 13.7 | 2.57 | 1.218 | 42.6 | 0.802 | 1.873 | 114.0 | 199.0 | --- | 3.376 | 10.52 | 0.435 | 42.8 | 314.4 | 6.4 | 0.481 |
| 4-2840 | 4-3520 | 0.876 | 154.2 | 12.6 | 1.80 | 1.222 | 44.2 | 0.791 | 1.906 | 110.8 | 199.9 | --- | 3.414 | 10.48 | 0.441 | 43.5 | 317.6 | 6.7 | 0.474 |
| 4-2840 | 4-3540 | 0.851 | 155.4 | 11.4 | 1.03 | 1.225 | 45.8 | 0.780 | 1.938 | 107.6 | 200.9 | --- | 3.450 | 10.50 | 0.446 | 44.2 | 320.8 | 7.0 | 0.467 |
| 4-2840 | 4-3560 | 0.826 | 156.5 | 10.1 | 0.27 | 1.229 | 47.3 | 0.770 | 1.969 | 104.4 | 201.8 | --- | 3.486 | 10.57 | 0.451 | 44.9 | 324.0 | 7.3 | 0.460 |
| 4-2840 | 4-3580 | 0.802 | 157.6 | 8.8 | -0.50 | 1.232 | 48.8 | 0.760 | 2.000 | 101.3 | 202.7 | --- | 3.522 | 10.69 | 0.455 | 45.5 | 327.2 | 7.6 | 0.454 |
| 4-2840 | 4-3600 | 0.778 | 158.6 | 7.3 | -1.28 | 1.235 | 50.2 | 0.751 | 2.031 | 98.2 | 203.6 | --- | 3.556 | 10.88 | 0.460 | 46.1 | 330.5 | 8.0 | 0.448 |
| 4-2840 | 4-3620 | 0.755 | 159.6 | 5.7 | -2.09 | 1.238 | 51.7 | 0.742 | 2.061 | 95.1 | 204.4 | --- | 3.591 | 11.12 | 0.464 | 46.6 | 333.8 | 8.5 | 0.442 |
| 4-2840 | 4-3640 | 0.733 | 160.4 | 4.0 | -2.92 | 1.241 | 53.0 | 0.733 | 2.091 | 92.0 | 205.3 | --- | 3.625 | 11.42 | 0.468 | 47.1 | 337.1 | 8.9 | 0.437 |
| 4-2840 | 4-3660 | 0.712 | 161.3 | 2.1 | -3.80 | 1.243 | 54.4 | 0.725 | 2.120 | 88.9 | 206.1 | --- | 3.658 | 11.79 | 0.471 | 47.5 | 340.4 | 9.5 | 0.432 |
| 4-2840 | 4-3680 | 0.692 | 162.0 | 0.0 | -4.73 | 1.246 | 55.7 | 0.718 | 2.149 | 85.9 | 206.9 | --- | 3.691 | 12.25 | 0.475 | 47.9 | 343.7 | 10.1 | 0.427 |
| 4-2840 | 4-3700 | 0.674 | 162.5 | -2.3 | -5.74 | 1.248 | 57.0 | 0.710 | 2.177 | 82.9 | 207.7 | --- | 3.723 | 12.79 | 0.478 | 48.3 | 347.0 | 10.8 | 0.423 |
| 4-2840 | 4-3720 | 0.656 | 163.0 | -4.8 | -6.83 | 1.251 | 58.3 | 0.704 | 2.204 | 80.0 | 208.5 | --- | 3.755 | 13.44 | 0.482 | 48.7 | 350.4 | 11.6 | 0.419 |
| 4-2840 | 4-3740 | 0.641 | 163.2 | -7.6 | -8.03 | 1.253 | 59.6 | 0.697 | 2.231 | 77.0 | 209.2 | --- | 3.787 | 14.22 | 0.485 | 49.0 | 353.8 | 12.5 | 0.416 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3000 | 4-3220 | 0.849 | 135.6 | -0.9 | -14.45 | 1.291 | 129.5 | 0.829 | 3.267 | 270.5 | 496.8 | 0.558 | --- | 12.21 | 0.685 | 145.1 | 3.8 | 7.9 | 0.604 |
| 4-3000 | 4-3240 | 0.787 | 135.4 | -0.5 | -13.12 | 1.256 | 127.4 | 0.771 | 2.524 | 270.6 | 501.7 | 0.577 | --- | 11.33 | 0.613 | 140.5 | 4.4 | 8.4 | 0.522 |
| 4-3000 | 4-3260 | 0.740 | 135.3 | 0.0 | -11.97 | 1.230 | 125.8 | 0.728 | 2.171 | 270.6 | 506.5 | 0.592 | --- | 10.64 | 0.556 | 135.6 | 4.5 | 9.1 | 0.454 |
| 4-3000 | 4-3280 | 0.704 | 135.2 | 0.7 | -10.95 | 1.211 | 124.6 | 0.695 | 1.973 | 270.6 | 511.2 | 0.602 | --- | 10.11 | 0.509 | 130.5 | 3.7 | 9.8 | 0.399 |
| 4-3000 | 4-3300 | 0.678 | 135.3 | 1.5 | -10.03 | 1.197 | 123.7 | 0.671 | 1.851 | 270.4 | 515.7 | 0.610 | --- | 9.69 | 0.472 | 125.3 | 2.2 | 10.5 | 0.354 |
| 4-3000 | 4-3320 | 0.659 | 135.6 | 2.4 | -9.18 | 1.187 | 123.2 | 0.654 | 1.772 | 270.1 | 520.1 | 0.613 | --- | 9.36 | 0.442 | 120.1 | 359.8 | 11.3 | 0.319 |
| 4-3000 | 4-3340 | 0.648 | 136.0 | 3.3 | -8.39 | 1.180 | 122.9 | 0.643 | 1.720 | 269.5 | 524.2 | 0.614 | --- | 9.12 | 0.418 | 114.7 | 356.6 | 11.9 | 0.293 |
| 4-3000 | 4-3360 | 0.642 | 136.5 | 4.3 | -7.64 | 1.175 | 122.9 | 0.638 | 1.686 | 268.8 | 528.0 | 0.610 | --- | 8.95 | 0.399 | 109.4 | 352.9 | 12.3 | 0.275 |
| 4-3000 | 4-3380 | 0.642 | 137.2 | 5.3 | -6.92 | 1.171 | 123.1 | 0.637 | 1.664 | 267.8 | 531.6 | 0.604 | --- | 8.85 | 0.384 | 104.2 | 349.1 | 12.5 | 0.264 |
| 4-3000 | 4-3400 | 0.646 | 138.0 | 6.3 | -6.22 | 1.169 | 123.6 | 0.640 | 1.651 | 266.6 | 534.9 | 0.595 | --- | 8.80 | 0.372 | 99.0 | 345.3 | 12.5 | 0.260 |
| 4-3000 | 4-3420 | 0.655 | 138.9 | 7.3 | -5.53 | 1.168 | 124.2 | 0.646 | 1.645 | 265.2 | 537.9 | 0.582 | --- | 8.81 | 0.363 | 93.9 | 342.1 | 12.2 | 0.262 |
| 4-3000 | 4-3440 | 0.668 | 140.0 | 8.3 | -4.85 | 1.168 | 125.1 | 0.655 | 1.643 | 263.5 | 540.6 | 0.567 | 2.720 | 8.86 | 0.356 | 88.9 | 339.6 | 11.8 | 0.269 |
| 4-3000 | 4-3460 | 0.685 | 141.2 | 9.2 | -4.16 | 1.168 | 126.2 | 0.667 | 1.646 | 261.6 | 543.0 | 0.549 | 2.743 | 8.98 | 0.352 | 84.0 | 338.0 | 11.3 | 0.279 |
| 4-3000 | 4-3480 | 0.705 | 142.5 | 10.0 | -3.45 | 1.169 | 127.4 | 0.680 | 1.651 | 259.4 | 545.1 | 0.528 | 2.774 | 9.14 | 0.348 | 79.3 | 337.2 | 10.7 | 0.292 |
| 4-3000 | 4-3500 | 0.729 | 144.0 | 10.7 | -2.73 | 1.171 | 128.8 | 0.696 | 1.659 | 257.0 | 547.0 | 0.504 | 2.814 | 9.36 | 0.347 | 74.7 | 337.1 | 10.2 | 0.308 |
| 4-3000 | 4-3520 | 0.756 | 145.5 | 11.3 | -1.97 | 1.172 | 130.4 | 0.714 | 1.669 | 254.4 | 548.6 | 0.478 | 2.859 | 9.65 | 0.346 | 70.1 | 337.8 | 9.7 | 0.325 |
| 4-3000 | 4-3540 | 0.787 | 147.1 | 11.9 | -1.17 | 1.174 | 132.1 | 0.732 | 1.680 | 251.6 | 549.9 | 0.450 | 2.911 | 10.00 | 0.346 | 65.7 | 339.0 | 9.2 | 0.343 |
| 4-3000 | 4-3560 | 0.820 | 148.8 | 12.3 | -0.32 | 1.176 | 134.0 | 0.753 | 1.693 | 248.5 | 550.9 | 0.419 | 2.968 | 10.43 | 0.347 | 61.4 | 340.7 | 8.8 | 0.362 |
| 4-3000 | 4-3580 | 0.856 | 150.6 | 12.6 | 0.61 | 1.178 | 136.1 | 0.774 | 1.708 | 245.3 | 551.7 | 0.387 | 3.029 | 10.96 | 0.349 | 57.1 | 342.9 | 8.4 | 0.383 |
| 4-3000 | 4-3600 | 0.895 | 152.5 | 12.9 | 1.62 | 1.180 | 138.3 | 0.795 | 1.723 | 241.8 | 552.3 | 0.353 | 3.094 | 11.59 | 0.351 | 52.8 | 345.5 | 8.0 | 0.404 |
| 4-3000 | 4-3620 | 0.937 | 154.4 | 13.0 | 2.75 | 1.182 | 140.7 | 0.818 | 1.740 | 238.2 | 552.5 | 0.317 | 3.162 | 12.35 | 0.354 | 48.7 | 348.4 | 7.7 | 0.426 |
| 4-3000 | 4-3640 | 0.981 | 156.4 | 13.0 | 4.03 | 1.185 | 143.2 | 0.840 | 1.757 | 234.3 | 552.6 | 0.281 | 3.233 | 13.28 | 0.357 | 44.5 | 351.6 | 7.4 | 0.448 |
| 4-3000 | 4-3660 | 1.028 | 158.4 | 12.9 | 5.51 | 1.187 | 145.9 | 0.862 | 1.775 | 230.3 | 552.4 | 0.245 | 3.305 | 14.41 | 0.361 | 40.4 | 355.0 | 7.1 | 0.471 |
| 4-3000 | 4-3680 | 1.076 | 160.4 | 12.7 | 7.25 | 1.190 | 148.7 | 0.884 | 1.794 | 226.2 | 552.1 | 0.209 | 3.379 | 15.82 | 0.365 | 36.4 | 358.7 | 6.9 | 0.494 |
| 4-3000 | 4-3700 | 1.127 | 162.5 | 12.5 | 9.34 | 1.192 | 151.6 | 0.904 | 1.814 | 221.9 | 551.5 | 0.174 | 3.454 | 17.59 | 0.370 | 32.4 | 2.5 | 6.6 | 0.518 |
| 4-3010 | 4-3230 | 0.832 | 141.9 | -6.5 | -16.34 | 1.299 | 127.6 | 0.828 | 3.456 | 275.0 | 494.5 | 0.594 | --- | 15.32 | 0.696 | 144.6 | 7.0 | 10.1 | 0.609 |
| 4-3010 | 4-3250 | 0.767 | 141.6 | -5.6 | -14.50 | 1.264 | 125.5 | 0.767 | 2.631 | 275.3 | 499.4 | 0.613 | --- | 13.94 | 0.625 | 140.1 | 7.9 | 10.6 | 0.526 |
| 4-3010 | 4-3270 | 0.716 | 141.4 | -4.6 | -12.95 | 1.238 | 123.9 | 0.720 | 2.247 | 275.4 | 504.3 | 0.628 | --- | 12.88 | 0.568 | 135.4 | 8.2 | 11.2 | 0.457 |
| 4-3010 | 4-3290 | 0.678 | 141.3 | -3.6 | -11.62 | 1.218 | 122.6 | 0.685 | 2.032 | 275.5 | 509.1 | 0.640 | --- | 12.04 | 0.522 | 130.5 | 7.7 | 11.9 | 0.401 |
| 4-3010 | 4-3310 | 0.649 | 141.4 | -2.4 | -10.45 | 1.204 | 121.7 | 0.659 | 1.901 | 275.5 | 513.7 | 0.648 | --- | 11.39 | 0.485 | 125.5 | 6.5 | 12.7 | 0.356 |
| 4-3010 | 4-3330 | 0.628 | 141.7 | -1.2 | -9.41 | 1.194 | 121.1 | 0.641 | 1.816 | 275.2 | 518.1 | 0.653 | --- | 10.87 | 0.455 | 120.5 | 4.4 | 13.4 | 0.319 |
| 4-3010 | 4-3350 | 0.614 | 142.1 | 0.0 | -8.45 | 1.187 | 120.7 | 0.628 | 1.760 | 274.8 | 522.3 | 0.654 | --- | 10.47 | 0.431 | 115.5 | 1.6 | 14.0 | 0.292 |
| 4-3010 | 4-3370 | 0.606 | 142.6 | 1.3 | -7.57 | 1.182 | 120.6 | 0.621 | 1.723 | 274.2 | 526.2 | 0.653 | --- | 10.17 | 0.412 | 110.5 | 358.2 | 14.5 | 0.272 |
| 4-3010 | 4-3390 | 0.603 | 143.3 | 2.5 | -6.74 | 1.178 | 120.8 | 0.618 | 1.699 | 273.4 | 529.9 | 0.648 | --- | 9.94 | 0.396 | 105.5 | 354.4 | 14.7 | 0.259 |
| 4-3010 | 4-3410 | 0.605 | 144.1 | 3.8 | -5.95 | 1.176 | 121.1 | 0.619 | 1.684 | 272.3 | 533.3 | 0.641 | --- | 9.79 | 0.384 | 100.7 | 350.7 | 14.7 | 0.253 |
| 4-3010 | 4-3430 | 0.612 | 145.1 | 4.9 | -5.19 | 1.175 | 121.7 | 0.624 | 1.675 | 271.1 | 536.4 | 0.630 | --- | 9.70 | 0.375 | 95.9 | 347.3 | 14.4 | 0.252 |
| 4-3010 | 4-3450 | 0.622 | 146.2 | 6.0 | -4.44 | 1.174 | 122.4 | 0.631 | 1.672 | 269.6 | 539.3 | 0.617 | --- | 9.66 | 0.368 | 91.3 | 344.6 | 14.0 | 0.256 |
| 4-3010 | 4-3470 | 0.636 | 147.4 | 7.1 | -3.71 | 1.174 | 123.3 | 0.640 | 1.674 | 267.8 | 541.8 | 0.602 | 2.745 | 9.69 | 0.363 | 86.7 | 342.6 | 13.4 | 0.264 |
| 4-3010 | 4-3490 | 0.653 | 148.7 | 8.0 | -2.98 | 1.175 | 124.3 | 0.652 | 1.678 | 265.9 | 544.1 | 0.584 | 2.772 | 9.77 | 0.359 | 82.3 | 341.5 | 12.7 | 0.274 |
| 4-3010 | 4-3510 | 0.674 | 150.2 | 8.8 | -2.23 | 1.176 | 125.5 | 0.666 | 1.685 | 263.7 | 546.2 | 0.563 | 2.806 | 9.90 | 0.357 | 78.0 | 341.0 | 12.1 | 0.287 |
| 4-3010 | 4-3530 | 0.697 | 151.7 | 9.5 | -1.48 | 1.177 | 126.9 | 0.681 | 1.694 | 261.3 | 547.9 | 0.540 | 2.847 | 10.09 | 0.356 | 73.9 | 341.3 | 11.4 | 0.302 |
| 4-3010 | 4-3550 | 0.724 | 153.3 | 10.1 | -0.69 | 1.179 | 128.4 | 0.698 | 1.704 | 258.7 | 549.5 | 0.515 | 2.894 | 10.34 | 0.355 | 69.8 | 342.2 | 10.8 | 0.318 |
| 4-3010 | 4-3570 | 0.753 | 154.9 | 10.6 | 0.12 | 1.181 | 130.1 | 0.716 | 1.716 | 255.9 | 550.8 | 0.487 | 2.945 | 10.66 | 0.356 | 65.7 | 343.6 | 10.3 | 0.335 |
| 4-3010 | 4-3590 | 0.785 | 156.6 | 11.0 | 0.99 | 1.183 | 131.9 | 0.736 | 1.729 | 253.0 | 551.8 | 0.457 | 3.002 | 11.05 | 0.357 | 61.8 | 345.5 | 9.8 | 0.353 |
| 4-3010 | 4-3610 | 0.820 | 158.4 | 11.2 | 1.91 | 1.185 | 133.8 | 0.756 | 1.744 | 249.8 | 552.6 | 0.426 | 3.062 | 11.52 | 0.358 | 57.9 | 347.8 | 9.4 | 0.372 |
| 4-3010 | 4-3630 | 0.857 | 160.2 | 11.4 | 2.91 | 1.187 | 135.9 | 0.777 | 1.759 | 246.5 | 553.2 | 0.393 | 3.125 | 12.09 | 0.361 | 54.0 | 350.4 | 9.0 | 0.392 |
| 4-3010 | 4-3650 | 0.897 | 162.1 | 11.4 | 4.00 | 1.189 | 138.1 | 0.798 | 1.775 | 242.9 | 553.5 | 0.358 | 3.192 | 12.77 | 0.363 | 50.2 | 353.3 | 8.6 | 0.412 |
| 4-3010 | 4-3670 | 0.940 | 164.0 | 11.4 | 5.22 | 1.191 | 140.5 | 0.820 | 1.792 | 239.2 | 553.7 | 0.323 | 3.262 | 13.60 | 0.367 | 46.4 | 356.4 | 8.3 | 0.433 |
| 4-3010 | 4-3690 | 0.984 | 165.9 | 11.2 | 6.59 | 1.193 | 143.0 | 0.842 | 1.810 | 235.4 | 553.6 | 0.287 | 3.333 | 14.59 | 0.370 | 42.6 | 359.8 | 8.0 | 0.454 |
| 4-3010 | 4-3710 | 1.031 | 167.9 | 11.0 | 8.17 | 1.196 | 145.6 | 0.863 | 1.828 | 231.4 | 553.3 | 0.251 | 3.406 | 15.81 | 0.374 | 38.9 | 3.4 | 7.7 | 0.476 |
| 4-3020 | 4-3240 | 0.824 | 147.8 | -13.7 | -19.16 | 1.306 | 125.6 | 0.827 | 3.641 | 279.7 | 492.2 | 0.629 | --- | 19.32 | 0.705 | 144.1 | 9.8 | 12.9 | 0.615 |
| 4-3020 | 4-3260 | 0.752 | 147.3 | -12.0 | -16.50 | 1.271 | 123.5 | 0.763 | 2.734 | 280.0 | 497.2 | 0.649 | --- | 17.14 | 0.635 | 139.6 | 11.0 | 13.2 | 0.531 |
| 4-3020 | 4-3280 | 0.696 | 147.1 | -10.3 | -14.37 | 1.245 | 121.9 | 0.713 | 2.319 | 280.4 | 502.2 | 0.665 | --- | 15.49 | 0.579 | 135.1 | 11.5 | 13.7 | 0.462 |
| 4-3020 | 4-3300 | 0.654 | 147.0 | -8.7 | -12.61 | 1.226 | 120.6 | 0.676 | 2.090 | 280.6 | 507.0 | 0.677 | --- | 14.23 | 0.534 | 130.4 | 11.3 | 14.3 | 0.405 |
| 4-3020 | 4-3320 | 0.621 | 147.1 | -7.0 | -11.11 | 1.212 | 119.6 | 0.648 | 1.950 | 280.6 | 511.7 | 0.686 | --- | 13.24 | 0.497 | 125.6 | 10.4 | 15.0 | 0.358 |
| 4-3020 | 4-3340 | 0.598 | 147.4 | -5.4 | -9.81 | 1.201 | 119.0 | 0.628 | 1.859 | 280.6 | 516.2 | 0.692 | --- | 12.46 | 0.467 | 120.8 | 8.7 | 15.6 | 0.321 |
| 4-3020 | 4-3360 | 0.581 | 147.8 | -3.8 | -8.66 | 1.194 | 118.6 | 0.614 | 1.799 | 280.3 | 520.4 | 0.694 | --- | 11.85 | 0.443 | 116.0 | 6.2 | 16.3 | 0.292 |
| 4-3020 | 4-3380 | 0.571 | 148.4 | -2.1 | -7.61 | 1.188 | 118.4 | 0.606 | 1.759 | 279.8 | 524.5 | 0.694 | --- | 11.37 | 0.424 | 111.3 | 3.1 | 16.7 | 0.270 |
| 4-3020 | 4-3400 | 0.566 | 149.2 | -0.6 | -6.66 | 1.185 | 118.5 | 0.601 | 1.732 | 279.1 | 528.2 | 0.691 | --- | 10.99 | 0.408 | 106.6 | 359.5 | 17.0 | 0.255 |
| 4-3020 | 4-3420 | 0.566 | 150.1 | 0.9 | -5.76 | 1.182 | 118.7 | 0.601 | 1.715 | 278.2 | 531.7 | 0.685 | --- | 10.70 | 0.396 | 102.0 | 355.9 | 16.9 | 0.247 |
| 4-3020 | 4-3440 | 0.570 | 151.1 | 2.3 | -4.92 | 1.181 | 119.1 | 0.604 | 1.706 | 277.0 | 535.0 | 0.676 | --- | 10.50 | 0.386 | 97.6 | 352.4 | 16.6 | 0.244 |
| 4-3020 | 4-3460 | 0.578 | 152.2 | 3.6 | -4.11 | 1.180 | 119.7 | 0.609 | 1.702 | 275.7 | 537.9 | 0.665 | --- | 10.36 | 0.379 | 93.2 | 349.5 | 16.1 | 0.245 |
| 4-3020 | 4-3480 | 0.589 | 153.5 | 4.8 | -3.33 | 1.180 | 120.5 | 0.617 | 1.702 | 274.1 | 540.6 | 0.652 | 2.751 | 10.28 | 0.373 | 89.0 | 347.3 | 15.4 | 0.251 |
| 4-3020 | 4-3500 | 0.604 | 154.8 | 5.9 | -2.56 | 1.181 | 121.4 | 0.627 | 1.705 | 272.3 | 543.1 | 0.636 | 2.773 | 10.26 | 0.369 | 84.9 | 345.8 | 14.7 | 0.259 |
| 4-3020 | 4-3520 | 0.622 | 156.3 | 6.8 | -1.80 | 1.182 | 122.5 | 0.638 | 1.711 | 270.3 | 545.3 | 0.619 | 2.803 | 10.30 | 0.366 | 80.9 | 345.0 | 13.9 | 0.269 |
| 4-3020 | 4-3540 | 0.642 | 157.8 | 7.6 | -1.04 | 1.183 | 123.6 | 0.652 | 1.719 | 268.1 | 547.2 | 0.598 | 2.839 | 10.39 | 0.365 | 77.0 | 345.0 | 13.1 | 0.282 |
| 4-3020 | 4-3560 | 0.666 | 159.3 | 8.3 | -0.28 | 1.184 | 125.0 | 0.667 | 1.728 | 265.8 | 548.9 | 0.576 | 2.881 | 10.54 | 0.364 | 73.2 | 345.6 | 12.4 | 0.296 |
| 4-3020 | 4-3580 | 0.692 | 161.0 | 8.8 | 0.51 | 1.186 | 126.4 | 0.683 | 1.740 | 263.2 | 550.4 | 0.551 | 2.928 | 10.75 | 0.364 | 69.4 | 346.7 | 11.8 | 0.311 |
| 4-3020 | 4-3600 | 0.720 | 162.6 | 9.2 | 1.32 | 1.187 | 128.0 | 0.700 | 1.752 | 260.5 | 551.6 | 0.525 | 2.979 | 11.01 | 0.365 | 65.8 | 348.3 | 11.2 | 0.327 |
| 4-3020 | 4-3620 | 0.751 | 164.3 | 9.5 | 2.17 | 1.189 | 129.7 | 0.719 | 1.765 | 257.5 | 552.7 | 0.496 | 3.034 | 11.35 | 0.366 | 62.2 | 350.2 | 10.7 | 0.344 |
| 4-3020 | 4-3640 | 0.785 | 166.1 | 9.7 | 3.07 | 1.191 | 131.6 | 0.738 | 1.780 | 254.5 | 553.5 | 0.466 | 3.093 | 11.76 | 0.367 | 58.6 | 352.6 | 10.2 | 0.361 |
| 4-3020 | 4-3660 | 0.820 | 167.9 | 9.8 | 4.03 | 1.193 | 133.5 | 0.758 | 1.795 | 251.2 | 554.1 | 0.434 | 3.156 | 12.25 | 0.370 | 55.1 | 355.2 | 9.8 | 0.379 |
| 4-3020 | 4-3680 | 0.858 | 169.7 | 9.8 | 5.07 | 1.195 | 135.6 | 0.779 | 1.811 | 247.8 | 554.5 | 0.401 | 3.221 | 12.84 | 0.372 | 51.6 | 358.1 | 9.4 | 0.398 |
| 4-3020 | 4-3700 | 0.899 | 171.6 | 9.7 | 6.20 | 1.197 | 137.8 | 0.800 | 1.827 | 244.2 | 554.7 | 0.366 | 3.289 | 13.55 | 0.375 | 48.1 | 1.2 | 9.0 | 0.417 |
| 4-3020 | 4-3720 | 0.941 | 173.4 | 9.5 | 7.46 | 1.199 | 140.2 | 0.821 | 1.845 | 240.5 | 554.8 | 0.330 | 3.359 | 14.40 | 0.379 | 44.6 | 4.5 | 8.7 | 0.437 |
| 4-3030 | 4-3250 | 0.835 | 153.5 | -23.2 | -23.61 | 1.313 | 123.6 | 0.826 | 3.812 | 284.3 | 490.1 | 0.665 | --- | 24.92 | 0.713 | 143.5 | 11.8 | 16.6 | 0.628 |
| 4-3030 | 4-3270 | 0.748 | 152.7 | -20.2 | -19.57 | 1.278 | 121.5 | 0.758 | 2.830 | 284.9 | 495.2 | 0.685 | --- | 21.34 | 0.644 | 139.1 | 13.5 | 16.5 | 0.540 |
| 4-3030 | 4-3290 | 0.683 | 152.3 | -17.5 | -16.50 | 1.252 | 119.8 | 0.706 | 2.388 | 285.4 | 500.2 | 0.701 | --- | 18.76 | 0.588 | 134.7 | 14.4 | 16.7 | 0.469 |
| 4-3030 | 4-3310 | 0.634 | 152.2 | -14.9 | -14.09 | 1.233 | 118.5 | 0.667 | 2.144 | 285.8 | 505.1 | 0.714 | --- | 16.83 | 0.543 | 130.1 | 14.6 | 17.1 | 0.410 |
| 4-3030 | 4-3330 | 0.597 | 152.3 | -12.6 | -12.12 | 1.218 | 117.5 | 0.638 | 1.996 | 286.0 | 509.8 | 0.723 | --- | 15.36 | 0.507 | 125.5 | 14.0 | 17.5 | 0.362 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3030 | 4-3350 | 0.570 | 152.7 | -10.3 | -10.47 | 1.208 | 116.8 | 0.616 | 1.900 | 286.0 | 514.4 | 0.729 | --- | 14.21 | 0.477 | 120.9 | 12.6 | 18.1 | 0.323 |
| 4-3030 | 4-3370 | 0.550 | 153.2 | -8.1 | -9.04 | 1.201 | 116.4 | 0.601 | 1.837 | 285.9 | 518.7 | 0.733 | --- | 13.30 | 0.453 | 116.4 | 10.4 | 18.6 | 0.293 |
| 4-3030 | 4-3390 | 0.537 | 153.9 | -6.0 | -7.79 | 1.195 | 116.2 | 0.591 | 1.794 | 285.5 | 522.8 | 0.733 | --- | 12.59 | 0.434 | 111.9 | 7.6 | 19.0 | 0.269 |
| 4-3030 | 4-3410 | 0.530 | 154.7 | -4.1 | -6.68 | 1.191 | 116.2 | 0.586 | 1.765 | 285.0 | 526.7 | 0.731 | --- | 12.02 | 0.419 | 107.4 | 4.3 | 19.2 | 0.253 |
| 4-3030 | 4-3430 | 0.528 | 155.7 | -2.2 | -5.66 | 1.189 | 116.4 | 0.584 | 1.747 | 284.2 | 530.3 | 0.727 | --- | 11.57 | 0.406 | 103.1 | 0.7 | 19.1 | 0.242 |
| 4-3030 | 4-3450 | 0.530 | 156.8 | -0.5 | -4.72 | 1.187 | 116.7 | 0.585 | 1.736 | 283.2 | 533.6 | 0.720 | --- | 11.22 | 0.396 | 98.9 | 357.3 | 18.8 | 0.237 |
| 4-3030 | 4-3470 | 0.535 | 158.0 | 1.1 | -3.84 | 1.186 | 117.2 | 0.589 | 1.730 | 281.9 | 536.6 | 0.711 | --- | 10.96 | 0.389 | 94.8 | 354.2 | 18.2 | 0.236 |
| 4-3030 | 4-3490 | 0.545 | 159.3 | 2.5 | -3.00 | 1.186 | 117.8 | 0.595 | 1.729 | 280.5 | 539.4 | 0.700 | --- | 10.77 | 0.383 | 90.8 | 351.8 | 17.4 | 0.240 |
| 4-3030 | 4-3510 | 0.557 | 160.7 | 3.7 | -2.20 | 1.187 | 118.6 | 0.604 | 1.732 | 278.8 | 542.0 | 0.686 | 2.777 | 10.64 | 0.379 | 87.0 | 350.1 | 16.5 | 0.246 |
| 4-3030 | 4-3530 | 0.572 | 162.2 | 4.8 | -1.42 | 1.187 | 119.5 | 0.614 | 1.737 | 277.0 | 544.3 | 0.671 | 2.802 | 10.58 | 0.376 | 83.2 | 349.0 | 15.6 | 0.254 |
| 4-3030 | 4-3550 | 0.591 | 163.7 | 5.7 | -0.65 | 1.188 | 120.6 | 0.625 | 1.744 | 275.0 | 546.4 | 0.653 | 2.834 | 10.57 | 0.373 | 79.6 | 348.7 | 14.8 | 0.265 |
| 4-3030 | 4-3570 | 0.611 | 165.3 | 6.5 | 0.11 | 1.190 | 121.7 | 0.638 | 1.753 | 272.8 | 548.3 | 0.634 | 2.872 | 10.62 | 0.372 | 76.0 | 349.0 | 13.9 | 0.277 |
| 4-3030 | 4-3590 | 0.634 | 167.0 | 7.1 | 0.87 | 1.191 | 123.0 | 0.653 | 1.763 | 270.4 | 549.9 | 0.612 | 2.914 | 10.72 | 0.372 | 72.6 | 349.8 | 13.2 | 0.290 |
| 4-3030 | 4-3610 | 0.660 | 168.6 | 7.6 | 1.65 | 1.193 | 124.4 | 0.668 | 1.775 | 267.8 | 551.3 | 0.589 | 2.961 | 10.87 | 0.372 | 69.2 | 351.1 | 12.5 | 0.304 |
| 4-3030 | 4-3630 | 0.688 | 170.3 | 7.9 | 2.44 | 1.194 | 125.9 | 0.685 | 1.787 | 265.1 | 552.6 | 0.563 | 3.012 | 11.08 | 0.373 | 65.8 | 352.8 | 11.8 | 0.319 |
| 4-3030 | 4-3650 | 0.717 | 172.0 | 8.1 | 3.26 | 1.196 | 127.6 | 0.703 | 1.801 | 262.3 | 553.6 | 0.536 | 3.066 | 11.35 | 0.374 | 62.5 | 354.9 | 11.3 | 0.334 |
| 4-3030 | 4-3670 | 0.750 | 173.8 | 8.2 | 4.11 | 1.198 | 129.3 | 0.721 | 1.815 | 259.3 | 554.4 | 0.507 | 3.124 | 11.69 | 0.376 | 59.2 | 357.3 | 10.8 | 0.350 |
| 4-3030 | 4-3690 | 0.784 | 175.5 | 8.2 | 5.02 | 1.200 | 131.1 | 0.740 | 1.830 | 256.1 | 555.1 | 0.476 | 3.185 | 12.10 | 0.378 | 56.0 | 359.9 | 10.3 | 0.367 |
| 4-3030 | 4-3710 | 0.820 | 177.3 | 8.1 | 5.98 | 1.202 | 133.1 | 0.760 | 1.846 | 252.8 | 555.5 | 0.444 | 3.249 | 12.60 | 0.381 | 52.8 | 2.8 | 9.9 | 0.384 |
| 4-3030 | 4-3730 | 0.859 | 179.1 | 8.0 | 7.02 | 1.204 | 135.2 | 0.780 | 1.862 | 249.3 | 555.8 | 0.410 | 3.315 | 13.19 | 0.384 | 49.6 | 5.9 | 9.5 | 0.402 |
| 4-3040 | 4-3280 | 0.771 | 157.8 | -31.2 | -24.61 | 1.284 | 119.4 | 0.753 | 2.915 | 289.9 | 493.3 | 0.720 | --- | 27.49 | 0.651 | 138.6 | 15.0 | 20.8 | 0.558 |
| 4-3040 | 4-3300 | 0.685 | 157.0 | -26.8 | -19.87 | 1.258 | 117.7 | 0.699 | 2.449 | 290.6 | 498.3 | 0.737 | --- | 23.21 | 0.596 | 134.2 | 16.6 | 20.5 | 0.481 |
| 4-3040 | 4-3320 | 0.623 | 156.8 | -22.9 | -16.36 | 1.239 | 116.4 | 0.658 | 2.194 | 291.2 | 503.3 | 0.750 | --- | 20.16 | 0.551 | 129.8 | 17.3 | 20.4 | 0.419 |
| 4-3040 | 4-3340 | 0.578 | 156.9 | -19.4 | -13.65 | 1.225 | 115.4 | 0.628 | 2.039 | 291.5 | 508.1 | 0.759 | --- | 17.92 | 0.515 | 125.4 | 17.1 | 20.6 | 0.368 |
| 4-3040 | 4-3360 | 0.545 | 157.3 | -16.2 | -11.48 | 1.215 | 114.7 | 0.605 | 1.939 | 291.7 | 512.7 | 0.766 | --- | 16.23 | 0.486 | 120.9 | 16.1 | 20.8 | 0.327 |
| 4-3040 | 4-3380 | 0.521 | 158.0 | -13.2 | -9.67 | 1.207 | 114.2 | 0.589 | 1.872 | 291.7 | 517.2 | 0.770 | --- | 14.91 | 0.462 | 116.6 | 14.2 | 21.1 | 0.295 |
| 4-3040 | 4-3400 | 0.505 | 158.8 | -10.5 | -8.15 | 1.202 | 113.9 | 0.578 | 1.827 | 291.5 | 521.3 | 0.771 | --- | 13.88 | 0.443 | 112.2 | 11.7 | 21.4 | 0.270 |
| 4-3040 | 4-3420 | 0.495 | 159.8 | -7.9 | -6.82 | 1.198 | 113.9 | 0.571 | 1.797 | 291.0 | 525.2 | 0.770 | --- | 13.06 | 0.428 | 108.0 | 8.6 | 21.4 | 0.252 |
| 4-3040 | 4-3440 | 0.491 | 160.9 | -5.6 | -5.64 | 1.195 | 114.0 | 0.568 | 1.777 | 290.3 | 528.9 | 0.767 | --- | 12.41 | 0.415 | 103.9 | 5.2 | 21.3 | 0.239 |
| 4-3040 | 4-3460 | 0.491 | 162.2 | -3.5 | -4.58 | 1.193 | 114.3 | 0.568 | 1.765 | 289.4 | 532.3 | 0.762 | --- | 11.89 | 0.406 | 99.9 | 1.8 | 20.8 | 0.232 |
| 4-3040 | 4-3480 | 0.495 | 163.5 | -1.6 | -3.61 | 1.193 | 114.7 | 0.571 | 1.758 | 288.3 | 535.4 | 0.754 | --- | 11.48 | 0.398 | 96.0 | 358.7 | 20.1 | 0.229 |
| 4-3040 | 4-3500 | 0.502 | 164.9 | 0.1 | -2.71 | 1.192 | 115.3 | 0.576 | 1.756 | 287.0 | 538.3 | 0.745 | --- | 11.16 | 0.392 | 92.3 | 356.2 | 19.2 | 0.230 |
| 4-3040 | 4-3520 | 0.513 | 166.4 | 1.6 | -1.86 | 1.193 | 115.9 | 0.583 | 1.758 | 285.4 | 541.0 | 0.733 | 2.783 | 10.92 | 0.387 | 88.7 | 354.2 | 18.2 | 0.235 |
| 4-3040 | 4-3540 | 0.526 | 168.0 | 2.8 | -1.05 | 1.193 | 116.7 | 0.592 | 1.762 | 283.7 | 543.4 | 0.720 | 2.805 | 10.75 | 0.384 | 85.1 | 353.0 | 17.2 | 0.241 |
| 4-3040 | 4-3560 | 0.542 | 169.6 | 3.9 | -0.27 | 1.194 | 117.7 | 0.602 | 1.769 | 281.8 | 545.6 | 0.705 | 2.833 | 10.63 | 0.382 | 81.7 | 352.4 | 16.2 | 0.250 |
| 4-3040 | 4-3580 | 0.560 | 171.3 | 4.8 | 0.49 | 1.195 | 118.7 | 0.613 | 1.777 | 279.8 | 547.5 | 0.688 | 2.866 | 10.58 | 0.380 | 78.4 | 352.4 | 15.3 | 0.260 |
| 4-3040 | 4-3600 | 0.581 | 172.9 | 5.5 | 1.24 | 1.196 | 119.8 | 0.626 | 1.787 | 277.6 | 549.3 | 0.669 | 2.905 | 10.57 | 0.379 | 75.2 | 353.0 | 14.4 | 0.271 |
| 4-3040 | 4-3620 | 0.604 | 174.6 | 6.0 | 1.98 | 1.198 | 121.1 | 0.640 | 1.798 | 275.2 | 550.9 | 0.648 | 2.948 | 10.62 | 0.379 | 72.0 | 354.1 | 13.6 | 0.283 |
| 4-3040 | 4-3640 | 0.629 | 176.3 | 6.4 | 2.72 | 1.199 | 122.4 | 0.654 | 1.810 | 272.6 | 552.3 | 0.626 | 2.994 | 10.72 | 0.380 | 68.9 | 355.5 | 12.9 | 0.296 |
| 4-3040 | 4-3660 | 0.656 | 178.0 | 6.7 | 3.48 | 1.201 | 123.8 | 0.670 | 1.823 | 270.0 | 553.5 | 0.601 | 3.044 | 10.87 | 0.381 | 65.8 | 357.4 | 12.2 | 0.310 |
| 4-3040 | 4-3680 | 0.684 | 179.7 | 6.8 | 4.25 | 1.203 | 125.4 | 0.687 | 1.836 | 267.2 | 554.5 | 0.575 | 3.098 | 11.08 | 0.383 | 62.8 | 359.5 | 11.6 | 0.324 |
| 4-3040 | 4-3700 | 0.715 | 181.4 | 6.8 | 5.05 | 1.204 | 127.0 | 0.704 | 1.851 | 264.2 | 555.4 | 0.547 | 3.154 | 11.34 | 0.384 | 59.8 | 2.0 | 11.1 | 0.339 |
| 4-3040 | 4-3720 | 0.748 | 183.1 | 6.7 | 5.89 | 1.206 | 128.8 | 0.722 | 1.866 | 261.1 | 556.1 | 0.518 | 3.213 | 11.67 | 0.387 | 56.9 | 4.6 | 10.6 | 0.355 |
| 4-3040 | 4-3740 | 0.783 | 184.8 | 6.6 | 6.77 | 1.208 | 130.6 | 0.741 | 1.881 | 257.9 | 556.6 | 0.487 | 3.275 | 12.07 | 0.389 | 53.9 | 7.5 | 10.2 | 0.371 |
| 4-3050 | 4-3290 | 0.861 | 164.1 | -46.7 | -33.94 | 1.289 | 117.3 | 0.748 | 2.984 | 294.8 | 491.6 | 0.753 | --- | 37.87 | 0.656 | 138.0 | 14.1 | 26.6 | 0.601 |
| 4-3050 | 4-3310 | 0.724 | 161.4 | -39.6 | -25.70 | 1.264 | 115.6 | 0.692 | 2.502 | 295.9 | 496.7 | 0.771 | --- | 30.06 | 0.601 | 133.7 | 17.3 | 25.5 | 0.507 |
| 4-3050 | 4-3330 | 0.633 | 160.6 | -33.5 | -20.11 | 1.245 | 114.2 | 0.649 | 2.238 | 296.7 | 501.7 | 0.785 | --- | 24.91 | 0.558 | 129.4 | 19.0 | 24.7 | 0.435 |
| 4-3050 | 4-3350 | 0.570 | 160.6 | -28.2 | -16.10 | 1.231 | 113.2 | 0.618 | 2.078 | 297.3 | 506.6 | 0.795 | --- | 21.33 | 0.522 | 125.1 | 19.5 | 24.2 | 0.379 |
| 4-3050 | 4-3370 | 0.526 | 161.2 | -23.6 | -13.06 | 1.221 | 112.4 | 0.594 | 1.974 | 297.6 | 511.3 | 0.802 | --- | 18.75 | 0.493 | 120.8 | 19.0 | 24.0 | 0.334 |
| 4-3050 | 4-3390 | 0.496 | 162.0 | -19.4 | -10.68 | 1.213 | 111.9 | 0.577 | 1.905 | 297.7 | 515.8 | 0.806 | --- | 16.81 | 0.470 | 116.6 | 17.6 | 24.0 | 0.299 |
| 4-3050 | 4-3410 | 0.475 | 163.1 | -15.7 | -8.74 | 1.208 | 111.6 | 0.565 | 1.858 | 297.6 | 520.0 | 0.808 | --- | 15.33 | 0.451 | 112.4 | 15.4 | 23.9 | 0.272 |
| 4-3050 | 4-3430 | 0.462 | 164.3 | -12.3 | -7.12 | 1.204 | 111.5 | 0.558 | 1.826 | 297.3 | 524.0 | 0.807 | --- | 14.17 | 0.436 | 108.4 | 12.5 | 23.7 | 0.251 |
| 4-3050 | 4-3450 | 0.455 | 165.6 | -9.3 | -5.72 | 1.201 | 111.6 | 0.554 | 1.805 | 296.7 | 527.7 | 0.805 | --- | 13.25 | 0.424 | 104.5 | 9.3 | 23.4 | 0.237 |
| 4-3050 | 4-3470 | 0.453 | 167.1 | -6.6 | -4.51 | 1.199 | 111.8 | 0.553 | 1.792 | 295.9 | 531.1 | 0.801 | --- | 12.52 | 0.414 | 100.7 | 6.1 | 22.8 | 0.228 |
| 4-3050 | 4-3490 | 0.455 | 168.6 | -4.2 | -3.42 | 1.198 | 112.2 | 0.555 | 1.785 | 294.9 | 534.3 | 0.795 | --- | 11.93 | 0.406 | 97.0 | 2.9 | 21.9 | 0.223 |
| 4-3050 | 4-3510 | 0.461 | 170.3 | -2.2 | -2.43 | 1.198 | 112.7 | 0.559 | 1.782 | 293.6 | 537.3 | 0.787 | --- | 11.46 | 0.400 | 93.4 | 0.3 | 20.9 | 0.222 |
| 4-3050 | 4-3530 | 0.470 | 171.9 | -0.4 | -1.53 | 1.198 | 113.3 | 0.564 | 1.783 | 292.2 | 540.0 | 0.777 | --- | 11.09 | 0.395 | 90.0 | 358.2 | 19.8 | 0.225 |
| 4-3050 | 4-3550 | 0.481 | 173.6 | 1.1 | -0.68 | 1.199 | 114.0 | 0.572 | 1.787 | 290.6 | 542.5 | 0.766 | 2.809 | 10.80 | 0.392 | 86.7 | 356.7 | 18.6 | 0.230 |
| 4-3050 | 4-3570 | 0.496 | 175.3 | 2.3 | 0.11 | 1.200 | 114.8 | 0.580 | 1.793 | 288.8 | 544.8 | 0.753 | 2.834 | 10.58 | 0.389 | 83.5 | 355.9 | 17.5 | 0.237 |
| 4-3050 | 4-3590 | 0.512 | 177.0 | 3.3 | 0.88 | 1.201 | 115.8 | 0.590 | 1.801 | 286.9 | 546.8 | 0.738 | 2.864 | 10.42 | 0.388 | 80.4 | 355.8 | 16.4 | 0.245 |
| 4-3050 | 4-3610 | 0.531 | 178.8 | 4.1 | 1.61 | 1.202 | 116.8 | 0.601 | 1.810 | 284.8 | 548.7 | 0.721 | 2.899 | 10.32 | 0.387 | 77.3 | 356.1 | 15.4 | 0.255 |
| 4-3050 | 4-3630 | 0.551 | 180.5 | 4.7 | 2.33 | 1.203 | 117.9 | 0.614 | 1.821 | 282.5 | 550.4 | 0.703 | 2.938 | 10.27 | 0.386 | 74.4 | 357.0 | 14.5 | 0.265 |
| 4-3050 | 4-3650 | 0.574 | 182.2 | 5.1 | 3.04 | 1.204 | 119.1 | 0.627 | 1.832 | 280.1 | 551.9 | 0.684 | 2.981 | 10.26 | 0.387 | 71.5 | 358.2 | 13.7 | 0.277 |
| 4-3050 | 4-3670 | 0.598 | 183.9 | 5.4 | 3.74 | 1.206 | 120.4 | 0.641 | 1.845 | 277.6 | 553.3 | 0.662 | 3.027 | 10.31 | 0.387 | 68.6 | 359.9 | 12.9 | 0.289 |
| 4-3050 | 4-3690 | 0.624 | 185.6 | 5.6 | 4.45 | 1.208 | 121.7 | 0.656 | 1.858 | 274.9 | 554.5 | 0.639 | 3.076 | 10.40 | 0.389 | 65.8 | 1.8 | 12.3 | 0.302 |
| 4-3050 | 4-3710 | 0.652 | 187.3 | 5.6 | 5.17 | 1.209 | 123.2 | 0.672 | 1.871 | 272.2 | 555.5 | 0.614 | 3.128 | 10.55 | 0.390 | 63.1 | 4.1 | 11.7 | 0.315 |
| 4-3050 | 4-3730 | 0.682 | 189.0 | 5.5 | 5.90 | 1.211 | 124.8 | 0.688 | 1.886 | 269.3 | 556.3 | 0.588 | 3.183 | 10.74 | 0.392 | 60.3 | 6.6 | 11.1 | 0.329 |
| 4-3050 | 4-3750 | 0.713 | 190.7 | 5.3 | 6.66 | 1.213 | 126.4 | 0.705 | 1.900 | 266.2 | 557.1 | 0.560 | 3.241 | 10.99 | 0.395 | 57.6 | 9.2 | 10.7 | 0.343 |
| 4-3060 | 4-3320 | 0.862 | 167.9 | -57.7 | -37.38 | 1.268 | 113.4 | 0.684 | 2.543 | 301.0 | 495.3 | 0.802 | --- | 42.72 | 0.605 | 133.2 | 14.6 | 31.7 | 0.570 |
| 4-3060 | 4-3340 | 0.694 | 163.7 | -48.3 | -27.04 | 1.250 | 112.0 | 0.641 | 2.274 | 302.3 | 500.3 | 0.817 | --- | 32.78 | 0.562 | 128.9 | 18.8 | 30.2 | 0.471 |
| 4-3060 | 4-3360 | 0.590 | 163.1 | -40.2 | -20.34 | 1.236 | 110.9 | 0.608 | 2.111 | 303.2 | 505.3 | 0.828 | --- | 26.48 | 0.527 | 124.7 | 20.7 | 28.9 | 0.400 |
| 4-3060 | 4-3380 | 0.522 | 163.8 | -33.3 | -15.71 | 1.226 | 110.1 | 0.583 | 2.005 | 303.8 | 510.0 | 0.835 | --- | 22.25 | 0.499 | 120.5 | 21.1 | 28.0 | 0.347 |
| 4-3060 | 4-3400 | 0.478 | 164.9 | -27.3 | -12.32 | 1.219 | 109.6 | 0.566 | 1.934 | 304.0 | 514.6 | 0.840 | --- | 19.26 | 0.476 | 116.4 | 20.3 | 27.3 | 0.307 |
| 4-3060 | 4-3420 | 0.449 | 166.4 | -22.0 | -9.72 | 1.213 | 109.3 | 0.553 | 1.886 | 304.1 | 518.8 | 0.842 | --- | 17.07 | 0.458 | 112.4 | 18.5 | 26.8 | 0.276 |
| 4-3060 | 4-3440 | 0.430 | 168.0 | -17.4 | -7.65 | 1.209 | 109.2 | 0.545 | 1.853 | 303.8 | 522.9 | 0.843 | --- | 15.42 | 0.443 | 108.6 | 16.0 | 26.2 | 0.253 |
| 4-3060 | 4-3460 | 0.420 | 169.7 | -13.4 | -5.95 | 1.207 | 109.2 | 0.541 | 1.832 | 303.3 | 526.6 | 0.841 | --- | 14.14 | 0.430 | 104.8 | 13.0 | 25.5 | 0.236 |
| 4-3060 | 4-3480 | 0.415 | 171.5 | -9.9 | -4.51 | 1.205 | 109.4 | 0.539 | 1.818 | 302.6 | 530.1 | 0.837 | --- | 13.13 | 0.421 | 101.2 | 9.9 | 24.7 | 0.225 |
| 4-3060 | 4-3500 | 0.416 | 173.3 | -6.8 | -3.27 | 1.204 | 109.7 | 0.540 | 1.810 | 301.6 | 533.4 | 0.832 | --- | 12.32 | 0.413 | 97.7 | 6.8 | 23.6 | 0.218 |
| 4-3060 | 4-3520 | 0.420 | 175.2 | -4.3 | -2.17 | 1.204 | 110.2 | 0.543 | 1.807 | 300.5 | 536.4 | 0.826 | --- | 11.67 | 0.407 | 94.3 | 4.1 | 22.4 | 0.216 |
| 4-3060 | 4-3540 | 0.428 | 177.1 | -2.1 | -1.19 | 1.204 | 110.7 | 0.548 | 1.808 | 299.1 | 539.1 | 0.818 | --- | 11.15 | 0.402 | 91.0 | 1.9 | 21.1 | 0.216 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3060 | 4-3560 | 0.438 | 178.9 | -0.4 | -0.30 | 1.204 | 111.3 | 0.554 | 1.811 | 297.6 | 541.7 | 0.808 | 2.814 | 10.73 | 0.399 | 87.9 | 0.3 | 19.7 | 0.220 |
| 4-3060 | 4-3580 | 0.451 | 180.8 | 1.1 | 0.53 | 1.205 | 112.1 | 0.561 | 1.817 | 295.9 | 544.0 | 0.797 | 2.837 | 10.40 | 0.396 | 84.9 | 359.3 | 18.4 | 0.225 |
| 4-3060 | 4-3600 | 0.466 | 182.7 | 2.2 | 1.30 | 1.206 | 112.9 | 0.570 | 1.824 | 294.1 | 546.2 | 0.784 | 2.864 | 10.14 | 0.394 | 81.9 | 359.0 | 17.2 | 0.232 |
| 4-3060 | 4-3620 | 0.483 | 184.5 | 3.1 | 2.03 | 1.207 | 113.8 | 0.580 | 1.833 | 292.1 | 548.1 | 0.770 | 2.896 | 9.94 | 0.393 | 79.1 | 359.1 | 16.1 | 0.240 |
| 4-3060 | 4-3640 | 0.502 | 186.3 | 3.8 | 2.73 | 1.208 | 114.8 | 0.591 | 1.843 | 289.9 | 549.9 | 0.754 | 2.932 | 9.79 | 0.393 | 76.3 | 359.8 | 15.1 | 0.249 |
| 4-3060 | 4-3660 | 0.523 | 188.1 | 4.2 | 3.40 | 1.210 | 115.9 | 0.602 | 1.854 | 287.6 | 551.5 | 0.737 | 2.971 | 9.70 | 0.393 | 73.6 | 0.9 | 14.2 | 0.260 |
| 4-3060 | 4-3680 | 0.545 | 189.8 | 4.5 | 4.06 | 1.211 | 117.1 | 0.615 | 1.866 | 285.2 | 553.0 | 0.718 | 3.014 | 9.65 | 0.394 | 70.9 | 2.4 | 13.3 | 0.270 |
| 4-3060 | 4-3700 | 0.568 | 191.5 | 4.7 | 4.71 | 1.212 | 118.3 | 0.628 | 1.879 | 282.7 | 554.3 | 0.698 | 3.059 | 9.65 | 0.395 | 68.3 | 4.2 | 12.6 | 0.282 |
| 4-3060 | 4-3720 | 0.594 | 193.2 | 4.7 | 5.36 | 1.214 | 119.6 | 0.642 | 1.892 | 280.1 | 555.5 | 0.676 | 3.107 | 9.69 | 0.396 | 65.8 | 6.2 | 12.0 | 0.293 |
| 4-3060 | 4-3740 | 0.621 | 194.9 | 4.6 | 6.01 | 1.216 | 121.0 | 0.657 | 1.906 | 277.3 | 556.5 | 0.653 | 3.158 | 9.77 | 0.398 | 63.2 | 8.6 | 11.4 | 0.306 |
| 4-3060 | 4-3760 | 0.649 | 196.5 | 4.4 | 6.67 | 1.217 | 122.5 | 0.673 | 1.920 | 274.4 | 557.4 | 0.628 | 3.212 | 9.90 | 0.400 | 60.7 | 11.1 | 10.9 | 0.318 |
| 4-3070 | 4-3350 | 0.907 | 171.5 | -69.5 | -42.53 | 1.254 | 109.8 | 0.632 | 2.301 | 307.7 | 499.3 | 0.846 | --- | 49.15 | 0.565 | 128.4 | 13.5 | 36.2 | 0.567 |
| 4-3070 | 4-3370 | 0.684 | 164.2 | -57.4 | -28.92 | 1.241 | 108.6 | 0.598 | 2.137 | 309.2 | 504.2 | 0.859 | --- | 35.90 | 0.531 | 124.2 | 19.2 | 34.9 | 0.451 |
| 4-3070 | 4-3390 | 0.555 | 164.3 | -47.0 | -20.62 | 1.231 | 107.7 | 0.573 | 2.031 | 310.1 | 509.0 | 0.867 | --- | 27.96 | 0.503 | 120.1 | 21.7 | 33.0 | 0.375 |
| 4-3070 | 4-3410 | 0.478 | 166.0 | -38.0 | -15.19 | 1.224 | 107.2 | 0.555 | 1.959 | 310.6 | 513.6 | 0.872 | --- | 22.88 | 0.481 | 116.1 | 22.0 | 31.5 | 0.322 |
| 4-3070 | 4-3430 | 0.431 | 168.2 | -30.3 | -11.39 | 1.218 | 106.9 | 0.542 | 1.911 | 310.8 | 517.9 | 0.875 | --- | 19.43 | 0.463 | 112.3 | 20.9 | 30.1 | 0.284 |
| 4-3070 | 4-3450 | 0.403 | 170.5 | -23.7 | -8.56 | 1.215 | 106.7 | 0.534 | 1.878 | 310.6 | 522.0 | 0.875 | --- | 16.97 | 0.448 | 108.5 | 18.9 | 29.0 | 0.256 |
| 4-3070 | 4-3470 | 0.387 | 172.8 | -18.1 | -6.37 | 1.212 | 106.8 | 0.529 | 1.856 | 310.2 | 525.8 | 0.874 | --- | 15.14 | 0.436 | 104.9 | 16.2 | 27.8 | 0.236 |
| 4-3070 | 4-3490 | 0.380 | 175.1 | -13.4 | -4.61 | 1.210 | 106.9 | 0.527 | 1.842 | 309.6 | 529.3 | 0.871 | --- | 13.74 | 0.427 | 101.4 | 13.2 | 26.5 | 0.222 |
| 4-3070 | 4-3510 | 0.378 | 177.4 | -9.4 | -3.15 | 1.209 | 107.2 | 0.527 | 1.834 | 308.7 | 532.6 | 0.867 | --- | 12.65 | 0.419 | 98.1 | 10.2 | 25.1 | 0.214 |
| 4-3070 | 4-3530 | 0.381 | 179.6 | -6.1 | -1.90 | 1.209 | 107.6 | 0.529 | 1.830 | 307.6 | 535.6 | 0.862 | --- | 11.79 | 0.413 | 94.9 | 7.5 | 23.6 | 0.210 |
| 4-3070 | 4-3550 | 0.388 | 181.8 | -3.4 | -0.82 | 1.209 | 108.1 | 0.533 | 1.831 | 306.3 | 538.4 | 0.855 | --- | 11.09 | 0.408 | 91.8 | 5.2 | 22.1 | 0.209 |
| 4-3070 | 4-3570 | 0.397 | 184.0 | -1.3 | 0.13 | 1.209 | 108.7 | 0.538 | 1.834 | 304.8 | 541.0 | 0.847 | 2.821 | 10.53 | 0.405 | 88.8 | 3.6 | 20.6 | 0.211 |
| 4-3070 | 4-3590 | 0.409 | 186.0 | 0.4 | 0.99 | 1.210 | 109.4 | 0.545 | 1.839 | 303.2 | 543.4 | 0.837 | 2.841 | 10.08 | 0.402 | 85.9 | 2.5 | 19.1 | 0.215 |
| 4-3070 | 4-3610 | 0.423 | 188.1 | 1.7 | 1.78 | 1.211 | 110.1 | 0.552 | 1.846 | 301.4 | 545.6 | 0.826 | 2.866 | 9.71 | 0.400 | 83.2 | 2.0 | 17.7 | 0.220 |
| 4-3070 | 4-3630 | 0.439 | 190.0 | 2.7 | 2.51 | 1.212 | 111.0 | 0.561 | 1.855 | 299.5 | 547.6 | 0.814 | 2.895 | 9.42 | 0.399 | 80.5 | 2.0 | 16.5 | 0.227 |
| 4-3070 | 4-3650 | 0.456 | 191.9 | 3.5 | 3.19 | 1.213 | 111.9 | 0.571 | 1.865 | 297.4 | 549.5 | 0.801 | 2.928 | 9.19 | 0.399 | 77.9 | 2.5 | 15.3 | 0.235 |
| 4-3070 | 4-3670 | 0.475 | 193.8 | 3.9 | 3.84 | 1.214 | 112.8 | 0.581 | 1.875 | 295.2 | 551.2 | 0.786 | 2.965 | 9.01 | 0.399 | 75.3 | 3.5 | 14.3 | 0.244 |
| 4-3070 | 4-3690 | 0.495 | 195.6 | 4.2 | 4.46 | 1.216 | 113.9 | 0.592 | 1.887 | 292.9 | 552.7 | 0.770 | 3.004 | 8.88 | 0.399 | 72.8 | 4.8 | 13.4 | 0.254 |
| 4-3070 | 4-3710 | 0.517 | 197.4 | 4.4 | 5.06 | 1.217 | 115.0 | 0.604 | 1.899 | 290.5 | 554.1 | 0.752 | 3.046 | 8.79 | 0.400 | 70.4 | 6.5 | 12.6 | 0.264 |
| 4-3070 | 4-3730 | 0.540 | 199.1 | 4.3 | 5.65 | 1.219 | 116.2 | 0.617 | 1.912 | 288.0 | 555.4 | 0.733 | 3.091 | 8.75 | 0.402 | 68.0 | 8.4 | 11.9 | 0.274 |
| 4-3070 | 4-3750 | 0.564 | 200.8 | 4.2 | 6.23 | 1.220 | 117.5 | 0.630 | 1.926 | 285.3 | 556.5 | 0.713 | 3.138 | 8.74 | 0.403 | 65.7 | 10.6 | 11.3 | 0.285 |
| 4-3070 | 4-3770 | 0.590 | 202.4 | 4.0 | 6.80 | 1.222 | 118.9 | 0.644 | 1.939 | 282.6 | 557.5 | 0.691 | 3.188 | 8.77 | 0.406 | 63.3 | 13.0 | 10.7 | 0.297 |
| 4-3080 | 4-3300 | 0.834 | 234.1 | 43.7 | 35.08 | 1.330 | 108.9 | 0.787 | 4.104 | 316.8 | 480.9 | 0.875 | --- | -28.56 | 0.721 | 138.6 | 25.9 | -22.6 | 0.595 |
| 4-3080 | 4-3320 | 0.976 | 251.8 | 45.0 | 46.00 | 1.299 | 107.0 | 0.709 | 3.058 | 318.6 | 486.6 | 0.890 | --- | -39.17 | 0.658 | 134.6 | 21.5 | -30.5 | 0.582 |
| 4-3080 | 4-3380 | 1.025 | 181.5 | -82.9 | -51.34 | 1.245 | 106.5 | 0.590 | 2.156 | 314.7 | 503.5 | 0.884 | --- | 59.10 | 0.533 | 123.7 | 10.4 | 39.1 | 0.603 |
| 4-3080 | 4-3400 | 0.703 | 160.9 | -67.1 | -31.94 | 1.235 | 105.4 | 0.563 | 2.050 | 316.5 | 508.3 | 0.895 | --- | 40.00 | 0.506 | 119.6 | 18.5 | 39.1 | 0.448 |
| 4-3080 | 4-3420 | 0.530 | 163.4 | -53.6 | -21.08 | 1.228 | 104.7 | 0.545 | 1.979 | 317.4 | 513.0 | 0.901 | --- | 29.45 | 0.484 | 115.7 | 21.9 | 36.8 | 0.358 |
| 4-3080 | 4-3440 | 0.437 | 167.2 | -42.1 | -14.53 | 1.223 | 104.4 | 0.532 | 1.931 | 317.8 | 517.3 | 0.904 | --- | 23.20 | 0.467 | 111.9 | 22.4 | 34.5 | 0.301 |
| 4-3080 | 4-3460 | 0.386 | 170.9 | -32.3 | -10.21 | 1.219 | 104.2 | 0.523 | 1.898 | 317.8 | 521.4 | 0.905 | --- | 19.17 | 0.452 | 108.3 | 21.1 | 32.3 | 0.264 |
| 4-3080 | 4-3480 | 0.359 | 174.4 | -24.0 | -7.15 | 1.217 | 104.2 | 0.518 | 1.876 | 317.5 | 525.2 | 0.904 | --- | 16.41 | 0.441 | 104.8 | 18.8 | 30.3 | 0.238 |
| 4-3080 | 4-3500 | 0.346 | 177.6 | -17.3 | -4.85 | 1.215 | 104.4 | 0.516 | 1.862 | 316.8 | 528.8 | 0.902 | --- | 14.42 | 0.431 | 101.5 | 16.1 | 28.4 | 0.221 |
| 4-3080 | 4-3520 | 0.341 | 180.6 | -11.8 | -3.06 | 1.214 | 104.6 | 0.516 | 1.855 | 316.0 | 532.0 | 0.899 | --- | 12.93 | 0.424 | 98.3 | 13.2 | 26.5 | 0.210 |
| 4-3080 | 4-3540 | 0.343 | 183.4 | -7.4 | -1.60 | 1.214 | 105.0 | 0.517 | 1.851 | 314.9 | 535.1 | 0.894 | --- | 11.78 | 0.418 | 95.2 | 10.5 | 24.6 | 0.204 |
| 4-3080 | 4-3560 | 0.349 | 186.0 | -4.0 | -0.38 | 1.214 | 105.5 | 0.520 | 1.852 | 313.7 | 537.9 | 0.888 | --- | 10.88 | 0.413 | 92.3 | 8.2 | 22.7 | 0.202 |
| 4-3080 | 4-3580 | 0.358 | 188.5 | -1.4 | 0.65 | 1.214 | 106.0 | 0.525 | 1.855 | 312.3 | 540.5 | 0.881 | 2.828 | 10.16 | 0.410 | 89.4 | 6.5 | 20.9 | 0.202 |
| 4-3080 | 4-3600 | 0.369 | 190.9 | 0.7 | 1.56 | 1.215 | 106.7 | 0.530 | 1.860 | 310.7 | 542.9 | 0.873 | 2.846 | 9.58 | 0.407 | 86.7 | 5.3 | 19.3 | 0.205 |
| 4-3080 | 4-3620 | 0.382 | 193.2 | 2.2 | 2.37 | 1.216 | 107.4 | 0.537 | 1.867 | 308.9 | 545.1 | 0.864 | 2.870 | 9.11 | 0.406 | 84.1 | 4.7 | 17.7 | 0.210 |
| 4-3080 | 4-3640 | 0.397 | 195.3 | 3.3 | 3.09 | 1.217 | 108.1 | 0.545 | 1.875 | 307.0 | 547.2 | 0.854 | 2.897 | 8.73 | 0.405 | 81.5 | 4.7 | 16.3 | 0.216 |
| 4-3080 | 4-3660 | 0.413 | 197.4 | 4.0 | 3.76 | 1.218 | 109.0 | 0.553 | 1.885 | 305.0 | 549.1 | 0.843 | 2.928 | 8.41 | 0.404 | 79.1 | 5.1 | 15.1 | 0.223 |
| 4-3080 | 4-3680 | 0.431 | 199.4 | 4.5 | 4.38 | 1.219 | 109.9 | 0.562 | 1.896 | 302.9 | 550.9 | 0.830 | 2.962 | 8.16 | 0.404 | 76.7 | 5.9 | 14.0 | 0.231 |
| 4-3080 | 4-3700 | 0.450 | 201.3 | 4.7 | 4.96 | 1.220 | 110.9 | 0.572 | 1.907 | 300.7 | 552.5 | 0.816 | 2.998 | 7.96 | 0.405 | 74.4 | 7.2 | 13.1 | 0.239 |
| 4-3080 | 4-3720 | 0.469 | 203.1 | 4.8 | 5.51 | 1.222 | 111.9 | 0.583 | 1.919 | 298.3 | 554.0 | 0.801 | 3.037 | 7.81 | 0.406 | 72.1 | 8.7 | 12.2 | 0.248 |
| 4-3080 | 4-3740 | 0.490 | 204.9 | 4.7 | 6.04 | 1.223 | 113.0 | 0.594 | 1.932 | 295.9 | 555.3 | 0.785 | 3.079 | 7.69 | 0.407 | 69.9 | 10.5 | 11.5 | 0.257 |
| 4-3080 | 4-3760 | 0.513 | 206.6 | 4.4 | 6.55 | 1.225 | 114.2 | 0.606 | 1.945 | 293.3 | 556.5 | 0.767 | 3.123 | 7.62 | 0.409 | 67.7 | 12.6 | 10.8 | 0.267 |
| 4-3080 | 4-3780 | 0.536 | 208.3 | 4.1 | 7.05 | 1.226 | 115.4 | 0.618 | 1.959 | 290.7 | 557.6 | 0.748 | 3.169 | 7.57 | 0.411 | 65.5 | 14.9 | 10.2 | 0.277 |
| 4-3090 | 4-3290 | 0.653 | 215.6 | 34.4 | 20.80 | 1.372 | 108.0 | 0.878 | 7.273 | 321.4 | 474.3 | 0.890 | --- | -13.59 | 0.792 | 141.4 | 31.8 | -10.9 | 0.617 |
| 4-3090 | 4-3310 | 0.645 | 222.2 | 40.2 | 23.71 | 1.330 | 106.2 | 0.774 | 4.002 | 322.8 | 480.3 | 0.903 | --- | -16.24 | 0.715 | 137.6 | 32.3 | -14.5 | 0.538 |
| 4-3090 | 4-3330 | 0.676 | 231.8 | 45.4 | 27.97 | 1.299 | 104.6 | 0.698 | 3.029 | 324.2 | 486.2 | 0.914 | --- | -20.23 | 0.654 | 133.8 | 31.9 | -19.8 | 0.483 |
| 4-3090 | 4-3350 | 0.762 | 245.7 | 49.0 | 34.76 | 1.277 | 103.3 | 0.641 | 2.576 | 325.7 | 491.9 | 0.923 | --- | -26.77 | 0.605 | 129.9 | 29.4 | -27.2 | 0.457 |
| 4-3090 | 4-3370 | 0.950 | 264.8 | 48.2 | 46.99 | 1.260 | 102.1 | 0.598 | 2.322 | 327.4 | 497.5 | 0.932 | --- | -38.75 | 0.565 | 125.9 | 22.8 | -36.1 | 0.486 |
| 4-3090 | 4-3390 | 1.336 | 285.7 | 38.4 | 71.49 | 1.248 | 100.8 | 0.565 | 2.165 | 329.8 | 502.8 | 0.942 | --- | -63.00 | 0.533 | 121.8 | 9.8 | -40.2 | 0.625 |
| 4-3090 | 4-3430 | 0.779 | 145.4 | -77.7 | -37.67 | 1.232 | 102.3 | 0.536 | 1.994 | 324.1 | 512.6 | 0.925 | --- | 46.64 | 0.486 | 115.2 | 16.4 | 42.4 | 0.474 |
| 4-3090 | 4-3450 | 0.519 | 159.1 | -60.1 | -21.97 | 1.227 | 101.8 | 0.523 | 1.947 | 325.1 | 517.0 | 0.929 | --- | 31.18 | 0.469 | 111.5 | 21.5 | 40.2 | 0.350 |
| 4-3090 | 4-3470 | 0.398 | 167.2 | -45.1 | -13.67 | 1.223 | 101.6 | 0.514 | 1.915 | 325.3 | 521.1 | 0.931 | --- | 23.11 | 0.455 | 108.0 | 22.2 | 36.8 | 0.284 |
| 4-3090 | 4-3490 | 0.341 | 173.4 | -32.3 | -8.68 | 1.221 | 101.6 | 0.509 | 1.894 | 325.0 | 524.9 | 0.930 | --- | 18.36 | 0.444 | 104.6 | 20.8 | 33.5 | 0.245 |
| 4-3090 | 4-3510 | 0.316 | 178.4 | -22.0 | -5.37 | 1.219 | 101.8 | 0.506 | 1.880 | 324.5 | 528.5 | 0.929 | --- | 15.29 | 0.435 | 101.4 | 18.4 | 30.5 | 0.222 |
| 4-3090 | 4-3530 | 0.307 | 182.6 | -14.0 | -3.01 | 1.219 | 102.0 | 0.506 | 1.873 | 323.6 | 531.7 | 0.926 | --- | 13.17 | 0.428 | 98.3 | 15.6 | 27.7 | 0.207 |
| 4-3090 | 4-3550 | 0.307 | 186.3 | -7.9 | -1.22 | 1.218 | 102.4 | 0.507 | 1.870 | 322.6 | 534.8 | 0.922 | --- | 11.62 | 0.422 | 95.3 | 13.0 | 25.2 | 0.199 |
| 4-3090 | 4-3570 | 0.312 | 189.6 | -3.4 | 0.19 | 1.218 | 102.8 | 0.509 | 1.870 | 321.4 | 537.6 | 0.918 | --- | 10.45 | 0.418 | 92.5 | 10.7 | 22.9 | 0.195 |
| 4-3090 | 4-3590 | 0.321 | 192.6 | -0.1 | 1.34 | 1.219 | 103.3 | 0.513 | 1.873 | 319.9 | 540.2 | 0.912 | 2.835 | 9.55 | 0.414 | 89.8 | 9.0 | 20.7 | 0.194 |
| 4-3090 | 4-3610 | 0.332 | 195.4 | 2.3 | 2.30 | 1.219 | 103.9 | 0.518 | 1.879 | 318.4 | 542.6 | 0.905 | 2.852 | 8.84 | 0.412 | 87.2 | 7.8 | 18.8 | 0.196 |
| 4-3090 | 4-3630 | 0.345 | 198.0 | 4.0 | 3.12 | 1.220 | 104.6 | 0.524 | 1.886 | 316.6 | 544.8 | 0.898 | 2.874 | 8.27 | 0.410 | 84.7 | 7.1 | 17.1 | 0.200 |
| 4-3090 | 4-3650 | 0.359 | 200.4 | 5.1 | 3.85 | 1.221 | 105.3 | 0.531 | 1.895 | 314.8 | 546.9 | 0.889 | 2.900 | 7.81 | 0.409 | 82.3 | 7.0 | 15.6 | 0.205 |
| 4-3090 | 4-3670 | 0.375 | 202.6 | 5.8 | 4.49 | 1.222 | 106.1 | 0.538 | 1.904 | 312.8 | 548.8 | 0.880 | 2.929 | 7.43 | 0.409 | 80.0 | 7.4 | 14.3 | 0.211 |
| 4-3090 | 4-3690 | 0.391 | 204.7 | 6.2 | 5.07 | 1.223 | 107.0 | 0.546 | 1.915 | 310.7 | 550.6 | 0.869 | 2.961 | 7.12 | 0.409 | 77.7 | 8.2 | 13.1 | 0.218 |
| 4-3090 | 4-3710 | 0.408 | 206.7 | 6.3 | 5.61 | 1.225 | 107.9 | 0.555 | 1.926 | 308.5 | 552.3 | 0.857 | 2.995 | 6.87 | 0.409 | 75.5 | 9.3 | 12.1 | 0.226 |
| 4-3090 | 4-3730 | 0.426 | 208.7 | 6.2 | 6.10 | 1.226 | 108.8 | 0.564 | 1.938 | 306.2 | 553.8 | 0.845 | 3.032 | 6.66 | 0.410 | 73.4 | 10.8 | 11.2 | 0.234 |
| 4-3090 | 4-3750 | 0.446 | 210.5 | 6.0 | 6.57 | 1.227 | 109.9 | 0.574 | 1.951 | 303.9 | 555.2 | 0.831 | 3.071 | 6.50 | 0.412 | 71.3 | 12.6 | 10.5 | 0.243 |
| 4-3090 | 4-3770 | 0.466 | 212.3 | 5.6 | 7.01 | 1.229 | 110.9 | 0.585 | 1.964 | 301.4 | 556.5 | 0.816 | 3.112 | 6.37 | 0.413 | 69.3 | 14.5 | 9.8 | 0.252 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3090 | 4-3790 | 0.487 | 214.0 | 5.1 | 7.44 | 1.230 | 112.1 | 0.596 | 1.977 | 298.8 | 557.7 | 0.799 | 3.155 | 6.27 | 0.415 | 67.3 | 16.7 | 9.2 | 0.261 |
| 4-3100 | 4-3280 | 0.613 | 210.5 | 26.0 | 15.22 | 1.422 | 106.6 | 1.00076 | .016 | 326.8 | 467.7 | 0.908 | --- | -7.24 | 0.876 | 143.9 | 33.7 | -5.4 | 0.689 |
| 4-3100 | 4-3300 | 0.562 | 213.2 | 31.1 | 16.28 | 1.368 | 104.7 | 0.860 | 6.551 | 328.2 | 473.8 | 0.920 | --- | -8.09 | 0.781 | 140.3 | 35.1 | -6.9 | 0.588 |
| 4-3100 | 4-3320 | 0.534 | 216.5 | 36.3 | 17.63 | 1.328 | 103.0 | 0.758 | 3.849 | 329.6 | 480.0 | 0.930 | --- | -9.24 | 0.707 | 136.6 | 36.1 | -8.9 | 0.506 |
| 4-3100 | 4-3340 | 0.526 | 220.9 | 41.5 | 19.41 | 1.299 | 101.7 | 0.684 | 2.973 | 331.1 | 486.0 | 0.938 | --- | -10.82 | 0.648 | 132.8 | 36.5 | -11.7 | 0.441 |
| 4-3100 | 4-3360 | 0.541 | 227.2 | 46.5 | 21.90 | 1.277 | 100.6 | 0.630 | 2.553 | 332.4 | 491.9 | 0.945 | --- | -13.11 | 0.600 | 129.0 | 36.3 | -15.7 | 0.391 |
| 4-3100 | 4-3380 | 0.585 | 236.4 | 50.8 | 25.67 | 1.261 | 99.7 | 0.589 | 2.314 | 333.7 | 497.6 | 0.950 | --- | -16.69 | 0.562 | 125.1 | 34.9 | -21.6 | 0.359 |
| 4-3100 | 4-3400 | 0.681 | 250.8 | 53.7 | 32.08 | 1.250 | 99.0 | 0.559 | 2.165 | 334.8 | 503.0 | 0.955 | --- | -22.92 | 0.531 | 121.3 | 31.5 | -30.0 | 0.353 |
| 4-3100 | 4-3420 | 0.897 | 272.3 | 52.3 | 45.05 | 1.241 | 98.4 | 0.537 | 2.068 | 335.9 | 508.1 | 0.958 | --- | -35.71 | 0.506 | 117.5 | 23.8 | -39.9 | 0.408 |
| 4-3100 | 4-3440 | 1.406 | 297.9 | 38.6 | 76.74 | 1.234 | 97.5 | 0.519 | 2.002 | 337.9 | 512.9 | 0.964 | --- | -67.23 | 0.486 | 113.7 | 10.0 | -41.6 | 0.618 |
| 4-3100 | 4-3460 | 1.007 | 43.0 | -81.8 | -51.82 | 1.230 | 99.5 | 0.515 | 1.957 | 331.8 | 517.0 | 0.949 | --- | 61.50 | 0.469 | 111.0 | 12.5 | 42.8 | 0.567 |
| 4-3100 | 4-3480 | 0.533 | 148.6 | -66.5 | -23.98 | 1.227 | 99.0 | 0.506 | 1.927 | 332.9 | 521.1 | 0.952 | --- | 33.84 | 0.456 | 107.4 | 20.4 | 43.2 | 0.354 |
| 4-3100 | 4-3500 | 0.358 | 166.4 | -46.1 | -12.41 | 1.224 | 99.0 | 0.501 | 1.907 | 332.9 | 524.9 | 0.952 | --- | 22.45 | 0.446 | 104.1 | 21.6 | 38.2 | 0.267 |
| 4-3100 | 4-3520 | 0.295 | 176.1 | -28.8 | -6.53 | 1.223 | 99.1 | 0.498 | 1.895 | 332.4 | 528.5 | 0.951 | --- | 16.73 | 0.437 | 101.0 | 20.0 | 33.1 | 0.226 |
| 4-3100 | 4-3540 | 0.275 | 182.9 | -15.8 | -3.01 | 1.222 | 99.3 | 0.497 | 1.888 | 331.6 | 531.7 | 0.949 | --- | 13.38 | 0.430 | 98.0 | 17.5 | 28.8 | 0.204 |
| 4-3100 | 4-3560 | 0.273 | 188.2 | -6.7 | -0.66 | 1.222 | 99.7 | 0.498 | 1.885 | 330.6 | 534.7 | 0.946 | --- | 11.20 | 0.425 | 95.2 | 15.0 | 25.2 | 0.193 |
| 4-3100 | 4-3580 | 0.279 | 192.5 | -0.5 | 1.03 | 1.222 | 100.1 | 0.500 | 1.886 | 329.3 | 537.5 | 0.942 | --- | 9.68 | 0.421 | 92.5 | 12.7 | 22.1 | 0.188 |
| 4-3100 | 4-3600 | 0.289 | 196.3 | 3.6 | 2.32 | 1.222 | 100.6 | 0.504 | 1.890 | 327.9 | 540.1 | 0.938 | 2.842 | 8.57 | 0.418 | 89.9 | 11.0 | 19.5 | 0.186 |
| 4-3100 | 4-3620 | 0.301 | 199.5 | 6.3 | 3.33 | 1.223 | 101.2 | 0.508 | 1.896 | 326.3 | 542.5 | 0.933 | 2.859 | 7.73 | 0.416 | 87.5 | 9.8 | 17.3 | 0.188 |
| 4-3100 | 4-3640 | 0.314 | 202.4 | 8.0 | 4.17 | 1.224 | 101.9 | 0.513 | 1.903 | 324.6 | 544.7 | 0.926 | 2.880 | 7.08 | 0.414 | 85.1 | 9.2 | 15.4 | 0.191 |
| 4-3100 | 4-3660 | 0.327 | 205.1 | 9.0 | 4.87 | 1.225 | 102.5 | 0.519 | 1.912 | 322.7 | 546.8 | 0.919 | 2.904 | 6.56 | 0.413 | 82.8 | 9.1 | 13.8 | 0.196 |
| 4-3100 | 4-3680 | 0.342 | 207.5 | 9.5 | 5.47 | 1.226 | 103.3 | 0.526 | 1.922 | 320.7 | 548.7 | 0.912 | 2.932 | 6.14 | 0.413 | 80.6 | 9.5 | 12.5 | 0.201 |
| 4-3100 | 4-3700 | 0.357 | 209.8 | 9.6 | 6.00 | 1.227 | 104.1 | 0.533 | 1.933 | 318.7 | 550.5 | 0.903 | 2.962 | 5.80 | 0.413 | 78.5 | 10.2 | 11.4 | 0.208 |
| 4-3100 | 4-3720 | 0.373 | 211.9 | 9.5 | 6.47 | 1.228 | 105.0 | 0.540 | 1.944 | 316.5 | 552.2 | 0.893 | 2.995 | 5.52 | 0.414 | 76.4 | 11.3 | 10.4 | 0.215 |
| 4-3100 | 4-3740 | 0.389 | 214.0 | 9.1 | 6.90 | 1.230 | 105.9 | 0.549 | 1.956 | 314.3 | 553.7 | 0.883 | 3.029 | 5.29 | 0.415 | 74.4 | 12.8 | 9.5 | 0.222 |
| 4-3100 | 4-3760 | 0.407 | 215.9 | 8.6 | 7.29 | 1.231 | 106.8 | 0.557 | 1.969 | 311.9 | 555.2 | 0.871 | 3.066 | 5.10 | 0.416 | 72.4 | 14.5 | 8.8 | 0.230 |
| 4-3100 | 4-3780 | 0.425 | 217.7 | 8.0 | 7.65 | 1.232 | 107.8 | 0.567 | 1.982 | 309.5 | 556.6 | 0.859 | 3.105 | 4.95 | 0.418 | 70.5 | 16.4 | 8.2 | 0.238 |
| 4-3100 | 4-3800 | 0.444 | 219.5 | 7.2 | 8.00 | 1.234 | 108.9 | 0.577 | 1.995 | 307.0 | 557.8 | 0.845 | 3.145 | 4.83 | 0.420 | 68.7 | 18.5 | 7.7 | 0.246 |
| 4-3110 | 4-3270 | 0.621 | 209.0 | 20.4 | 12.49 | 1.487 | 104.8 | 1.169 | -5.482 | 332.6 | 461.3 | 0.927 | --- | -3.60 | 0.975 | 146.1 | 34.8 | -2.5 | 0.785 |
| 4-3110 | 4-3290 | 0.544 | 210.2 | 24.7 | 12.90 | 1.414 | 102.8 | 0.974 | 35.623 | 334.0 | 467.5 | 0.937 | --- | -3.88 | 0.858 | 142.7 | 36.4 | -3.1 | 0.661 |
| 4-3110 | 4-3310 | 0.491 | 211.3 | 29.3 | 13.39 | 1.362 | 101.1 | 0.837 | 5.805 | 335.6 | 473.8 | 0.946 | --- | -4.22 | 0.768 | 139.2 | 37.7 | -3.8 | 0.562 |
| 4-3110 | 4-3330 | 0.457 | 212.6 | 33.9 | 13.96 | 1.324 | 99.7 | 0.739 | 3.657 | 337.2 | 480.2 | 0.954 | --- | -4.67 | 0.696 | 135.5 | 38.7 | -4.7 | 0.481 |
| 4-3110 | 4-3350 | 0.436 | 214.3 | 38.4 | 14.67 | 1.297 | 98.5 | 0.668 | 2.893 | 338.8 | 486.4 | 0.960 | --- | -5.25 | 0.639 | 131.7 | 39.3 | -6.0 | 0.416 |
| 4-3110 | 4-3370 | 0.427 | 216.5 | 42.6 | 15.58 | 1.276 | 97.5 | 0.616 | 2.513 | 340.2 | 492.4 | 0.964 | --- | -6.04 | 0.593 | 127.9 | 39.4 | -7.8 | 0.362 |
| 4-3110 | 4-3390 | 0.430 | 219.7 | 46.7 | 16.79 | 1.261 | 96.8 | 0.578 | 2.293 | 341.4 | 498.1 | 0.968 | --- | -7.14 | 0.557 | 124.1 | 38.9 | -10.3 | 0.319 |
| 4-3110 | 4-3410 | 0.446 | 224.4 | 50.5 | 18.54 | 1.250 | 96.3 | 0.550 | 2.156 | 342.3 | 503.5 | 0.970 | --- | -8.76 | 0.527 | 120.4 | 37.7 | -14.0 | 0.286 |
| 4-3110 | 4-3430 | 0.484 | 232.0 | 54.2 | 21.28 | 1.242 | 95.9 | 0.529 | 2.065 | 343.0 | 508.6 | 0.972 | --- | -11.39 | 0.503 | 116.7 | 35.5 | -19.6 | 0.265 |
| 4-3110 | 4-3450 | 0.563 | 245.0 | 57.4 | 26.27 | 1.236 | 95.6 | 0.515 | 2.004 | 343.4 | 513.3 | 0.973 | --- | -16.27 | 0.484 | 113.2 | 31.9 | -28.3 | 0.263 |
| 4-3110 | 4-3470 | 0.765 | 269.8 | 57.8 | 38.03 | 1.232 | 95.4 | 0.504 | 1.962 | 343.7 | 517.7 | 0.973 | --- | -27.93 | 0.469 | 109.7 | 25.2 | -40.4 | 0.319 |
| 4-3110 | 4-3490 | 1.461 | 308.7 | 39.9 | 80.73 | 1.229 | 95.0 | 0.496 | 1.934 | 344.9 | 521.9 | 0.975 | --- | -70.53 | 0.456 | 106.3 | 12.1 | -41.7 | 0.620 |
| 4-3110 | 4-3510 | 0.630 | 119.1 | -73.4 | -30.36 | 1.227 | 96.3 | 0.494 | 1.916 | 341.0 | 525.3 | 0.969 | --- | 40.68 | 0.446 | 103.5 | 18.6 | 45.8 | 0.395 |
| 4-3110 | 4-3530 | 0.311 | 166.4 | -43.1 | -10.21 | 1.226 | 96.3 | 0.492 | 1.905 | 340.8 | 528.8 | 0.968 | --- | 20.62 | 0.438 | 100.5 | 20.7 | 38.0 | 0.247 |
| 4-3110 | 4-3550 | 0.249 | 181.1 | -17.3 | -3.12 | 1.225 | 96.6 | 0.491 | 1.899 | 340.0 | 532.0 | 0.967 | --- | 13.64 | 0.432 | 97.6 | 18.8 | 29.9 | 0.203 |
| 4-3110 | 4-3570 | 0.245 | 189.5 | -1.9 | 0.40 | 1.225 | 96.9 | 0.492 | 1.898 | 338.9 | 534.9 | 0.965 | --- | 10.22 | 0.427 | 94.9 | 16.4 | 24.0 | 0.186 |
| 4-3110 | 4-3590 | 0.254 | 195.3 | 6.6 | 2.51 | 1.225 | 97.4 | 0.494 | 1.900 | 337.6 | 537.7 | 0.962 | --- | 8.21 | 0.423 | 92.3 | 14.2 | 19.7 | 0.179 |
| 4-3110 | 4-3610 | 0.266 | 199.8 | 11.3 | 3.93 | 1.226 | 97.9 | 0.497 | 1.904 | 336.1 | 540.2 | 0.958 | 2.849 | 6.90 | 0.420 | 89.8 | 12.5 | 16.5 | 0.178 |
| 4-3110 | 4-3630 | 0.279 | 203.6 | 13.9 | 4.95 | 1.226 | 98.5 | 0.500 | 1.910 | 334.5 | 542.5 | 0.954 | 2.866 | 5.98 | 0.418 | 87.5 | 11.4 | 14.1 | 0.179 |
| 4-3110 | 4-3650 | 0.292 | 206.8 | 15.2 | 5.73 | 1.227 | 99.1 | 0.505 | 1.918 | 332.7 | 544.7 | 0.950 | 2.886 | 5.31 | 0.417 | 85.2 | 10.9 | 12.2 | 0.182 |
| 4-3110 | 4-3670 | 0.305 | 209.7 | 15.8 | 6.35 | 1.228 | 99.8 | 0.510 | 1.927 | 330.8 | 546.8 | 0.944 | 2.910 | 4.79 | 0.416 | 83.0 | 10.8 | 10.6 | 0.187 |
| 4-3110 | 4-3690 | 0.318 | 212.3 | 15.8 | 6.86 | 1.229 | 100.5 | 0.516 | 1.937 | 328.9 | 548.7 | 0.938 | 2.936 | 4.39 | 0.416 | 80.9 | 11.2 | 9.4 | 0.192 |
| 4-3110 | 4-3710 | 0.332 | 214.6 | 15.4 | 7.29 | 1.230 | 101.2 | 0.522 | 1.948 | 326.8 | 550.5 | 0.931 | 2.965 | 4.07 | 0.417 | 78.9 | 12.0 | 8.4 | 0.199 |
| 4-3110 | 4-3730 | 0.346 | 216.9 | 14.7 | 7.65 | 1.232 | 102.1 | 0.529 | 1.960 | 324.7 | 552.2 | 0.924 | 2.996 | 3.81 | 0.417 | 77.0 | 13.1 | 7.6 | 0.205 |
| 4-3110 | 4-3750 | 0.360 | 219.0 | 13.9 | 7.98 | 1.233 | 102.9 | 0.536 | 1.972 | 322.4 | 553.8 | 0.915 | 3.029 | 3.60 | 0.418 | 75.1 | 14.6 | 6.9 | 0.212 |
| 4-3110 | 4-3770 | 0.375 | 220.9 | 13.0 | 8.27 | 1.234 | 103.8 | 0.544 | 1.985 | 320.1 | 555.2 | 0.906 | 3.064 | 3.43 | 0.420 | 73.3 | 16.3 | 6.3 | 0.219 |
| 4-3110 | 4-3790 | 0.391 | 222.8 | 11.9 | 8.53 | 1.236 | 104.8 | 0.552 | 1.998 | 317.7 | 556.6 | 0.895 | 3.101 | 3.29 | 0.422 | 71.5 | 18.2 | 5.8 | 0.227 |
| 4-3110 | 4-3810 | 0.407 | 224.6 | 10.8 | 8.77 | 1.237 | 105.8 | 0.560 | 2.011 | 315.3 | 557.9 | 0.884 | 3.139 | 3.17 | 0.424 | 69.7 | 20.3 | 5.4 | 0.235 |
| 4-3120 | 4-3280 | 0.557 | 208.6 | 20.7 | 11.15 | 1.471 | 100.5 | 1.129 | -7.420 | 340.2 | 461.3 | 0.954 | --- | -1.14 | 0.949 | 144.9 | 37.2 | -0.8 | 0.750 |
| 4-3120 | 4-3300 | 0.485 | 208.7 | 24.9 | 11.27 | 1.403 | 98.8 | 0.941 | 16.247 | 341.9 | 467.8 | 0.961 | --- | -1.21 | 0.838 | 141.5 | 38.7 | -1.0 | 0.631 |
| 4-3120 | 4-3320 | 0.434 | 208.5 | 29.1 | 11.40 | 1.354 | 97.3 | 0.810 | 5.096 | 343.7 | 474.4 | 0.967 | --- | -1.29 | 0.751 | 138.0 | 39.8 | -1.2 | 0.536 |
| 4-3120 | 4-3340 | 0.399 | 208.2 | 33.1 | 11.55 | 1.319 | 96.0 | 0.717 | 3.440 | 345.6 | 481.0 | 0.972 | --- | -1.39 | 0.682 | 134.3 | 40.7 | -1.5 | 0.459 |
| 4-3120 | 4-3360 | 0.375 | 207.9 | 36.8 | 11.73 | 1.293 | 95.0 | 0.651 | 2.792 | 347.3 | 487.3 | 0.976 | --- | -1.52 | 0.628 | 130.5 | 41.2 | -1.8 | 0.395 |
| 4-3120 | 4-3380 | 0.359 | 207.8 | 40.2 | 11.94 | 1.274 | 94.2 | 0.602 | 2.458 | 348.8 | 493.4 | 0.978 | --- | -1.69 | 0.584 | 126.7 | 41.1 | -2.3 | 0.343 |
| 4-3120 | 4-3400 | 0.349 | 207.9 | 43.0 | 12.20 | 1.260 | 93.6 | 0.567 | 2.261 | 350.1 | 499.2 | 0.980 | --- | -1.91 | 0.549 | 123.0 | 40.6 | -2.9 | 0.300 |
| 4-3120 | 4-3420 | 0.344 | 208.5 | 45.5 | 12.54 | 1.250 | 93.2 | 0.541 | 2.136 | 351.0 | 504.6 | 0.981 | --- | -2.20 | 0.521 | 119.3 | 39.5 | -3.8 | 0.264 |
| 4-3120 | 4-3440 | 0.344 | 209.7 | 47.6 | 13.00 | 1.242 | 92.9 | 0.522 | 2.054 | 351.5 | 509.7 | 0.981 | --- | -2.62 | 0.499 | 115.7 | 37.7 | -5.0 | 0.236 |
| 4-3120 | 4-3460 | 0.350 | 211.8 | 49.6 | 13.66 | 1.237 | 92.8 | 0.509 | 1.999 | 351.8 | 514.3 | 0.982 | --- | -3.25 | 0.481 | 112.2 | 35.4 | -6.8 | 0.213 |
| 4-3120 | 4-3480 | 0.363 | 215.3 | 51.8 | 14.75 | 1.233 | 92.8 | 0.499 | 1.961 | 351.7 | 518.6 | 0.982 | --- | -4.30 | 0.466 | 108.8 | 32.5 | -9.7 | 0.197 |
| 4-3120 | 4-3500 | 0.394 | 221.8 | 54.8 | 16.83 | 1.230 | 92.8 | 0.493 | 1.936 | 351.4 | 522.5 | 0.981 | --- | -6.34 | 0.454 | 105.6 | 29.1 | -14.9 | 0.188 |
| 4-3120 | 4-3520 | 0.489 | 238.6 | 59.7 | 22.57 | 1.229 | 93.0 | 0.489 | 1.920 | 350.8 | 526.1 | 0.981 | --- | -12.05 | 0.445 | 102.6 | 25.1 | -26.9 | 0.201 |
| 4-3120 | 4-3540 | 1.438 | 316.2 | 44.2 | 79.13 | 1.228 | 93.1 | 0.487 | 1.911 | 350.6 | 529.6 | 0.981 | --- | -68.57 | 0.438 | 99.6 | 16.3 | -42.7 | 0.593 |
| 4-3120 | 4-3560 | 0.235 | 175.4 | -21.1 | -3.95 | 1.227 | 93.7 | 0.487 | 1.907 | 348.6 | 532.5 | 0.979 | --- | 14.54 | 0.432 | 97.0 | 19.5 | 31.6 | 0.205 |
| 4-3120 | 4-3580 | 0.234 | 193.6 | 14.6 | 3.54 | 1.227 | 94.1 | 0.487 | 1.907 | 347.5 | 535.4 | 0.977 | --- | 7.09 | 0.428 | 94.3 | 17.2 | 17.8 | 0.172 |
| 4-3120 | 4-3600 | 0.255 | 201.0 | 23.6 | 5.95 | 1.228 | 94.6 | 0.489 | 1.910 | 346.1 | 538.1 | 0.976 | --- | 4.71 | 0.424 | 91.9 | 15.1 | 12.0 | 0.167 |
| 4-3120 | 4-3620 | 0.270 | 205.6 | 26.6 | 7.15 | 1.228 | 95.1 | 0.492 | 1.915 | 344.5 | 540.5 | 0.973 | 2.856 | 3.55 | 0.422 | 89.5 | 13.5 | 9.0 | 0.168 |
| 4-3120 | 4-3640 | 0.282 | 209.2 | 27.4 | 7.87 | 1.229 | 95.7 | 0.495 | 1.922 | 342.8 | 542.8 | 0.971 | 2.873 | 2.86 | 0.420 | 87.2 | 12.6 | 7.1 | 0.171 |
| 4-3120 | 4-3660 | 0.292 | 212.1 | 27.2 | 8.36 | 1.230 | 96.3 | 0.499 | 1.930 | 341.0 | 545.0 | 0.967 | 2.894 | 2.41 | 0.419 | 85.1 | 12.2 | 5.8 | 0.175 |
| 4-3120 | 4-3680 | 0.302 | 214.8 | 26.5 | 8.71 | 1.231 | 97.0 | 0.503 | 1.940 | 339.1 | 547.0 | 0.963 | 2.917 | 2.09 | 0.419 | 83.0 | 12.2 | 4.8 | 0.180 |
| 4-3120 | 4-3700 | 0.312 | 217.2 | 25.4 | 8.98 | 1.232 | 97.7 | 0.508 | 1.951 | 337.1 | 548.9 | 0.959 | 2.943 | 1.86 | 0.419 | 81.0 | 12.7 | 4.1 | 0.186 |
| 4-3120 | 4-3720 | 0.322 | 219.5 | 24.1 | 9.20 | 1.233 | 98.4 | 0.514 | 1.962 | 335.1 | 550.7 | 0.954 | 2.971 | 1.68 | 0.419 | 79.1 | 13.6 | 3.6 | 0.192 |
| 4-3120 | 4-3740 | 0.332 | 221.7 | 22.6 | 9.37 | 1.234 | 99.2 | 0.520 | 1.974 | 332.9 | 552.3 | 0.948 | 3.000 | 1.54 | 0.420 | 77.3 | 14.8 | 3.2 | 0.198 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3120 | 4-3760 | 0.343 | 223.7 | 21.1 | 9.52 | 1.236 | 100.0 | 0.526 | 1.987 | 330.7 | 553.9 | 0.942 | 3.032 | 1.43 | 0.422 | 75.5 | 16.3 | 2.9 | 0.205 |
| 4-3120 | 4-3780 | 0.355 | 225.6 | 19.5 | 9.65 | 1.237 | 100.9 | 0.533 | 2.000 | 328.4 | 555.4 | 0.934 | 3.065 | 1.34 | 0.423 | 73.8 | 18.0 | 2.6 | 0.211 |
| 4-3120 | 4-3800 | 0.367 | 227.5 | 17.8 | 9.76 | 1.238 | 101.8 | 0.540 | 2.013 | 326.0 | 556.8 | 0.926 | 3.100 | 1.26 | 0.425 | 72.1 | 19.9 | 2.3 | 0.218 |
| 4-3120 | 4-3820 | 0.380 | 229.3 | 16.2 | 9.86 | 1.240 | 102.7 | 0.547 | 2.026 | 323.6 | 558.1 | 0.917 | 3.136 | 1.20 | 0.427 | 70.5 | 22.0 | 2.1 | 0.225 |
| 4-3130 | 4-3270 | 0.596 | 207.0 | 18.2 | 10.27 | 1.545 | 97.6 | 1.344 | -2.815 | 346.7 | 455.5 | 0.969 | --- | 0.94 | 1.060 | 146.9 | 37.8 | 0.6 | 0.860 |
| 4-3130 | 4-3290 | 0.503 | 206.3 | 22.1 | 10.18 | 1.454 | 96.0 | 1.079 | 12.255 | 348.5 | 462.1 | 0.974 | --- | 0.97 | 0.920 | 143.7 | 39.2 | 0.7 | 0.714 |
| 4-3130 | 4-3310 | 0.437 | 205.1 | 26.1 | 10.09 | 1.390 | 94.5 | 0.902 | 10.014 | 350.5 | 468.9 | 0.978 | --- | 1.01 | 0.813 | 140.3 | 40.5 | 0.9 | 0.601 |
| 4-3130 | 4-3330 | 0.391 | 203.5 | 30.0 | 9.99 | 1.345 | 93.2 | 0.780 | 4.458 | 352.7 | 475.7 | 0.980 | --- | 1.06 | 0.730 | 136.7 | 41.4 | 1.0 | 0.510 |
| 4-3130 | 4-3350 | 0.358 | 201.6 | 33.4 | 9.88 | 1.312 | 92.1 | 0.694 | 3.210 | 354.8 | 482.5 | 0.982 | --- | 1.13 | 0.665 | 133.0 | 42.1 | 1.3 | 0.437 |
| 4-3130 | 4-3370 | 0.335 | 199.7 | 36.3 | 9.76 | 1.288 | 91.3 | 0.633 | 2.676 | 356.7 | 489.0 | 0.983 | --- | 1.21 | 0.613 | 129.2 | 42.3 | 1.5 | 0.376 |
| 4-3130 | 4-3390 | 0.318 | 197.9 | 38.6 | 9.62 | 1.271 | 90.6 | 0.588 | 2.390 | 358.3 | 495.2 | 0.984 | --- | 1.31 | 0.572 | 125.4 | 42.0 | 1.9 | 0.327 |
| 4-3130 | 4-3410 | 0.305 | 196.2 | 40.2 | 9.45 | 1.258 | 90.2 | 0.556 | 2.218 | 359.5 | 500.9 | 0.984 | --- | 1.43 | 0.539 | 121.7 | 41.2 | 2.3 | 0.286 |
| 4-3130 | 4-3430 | 0.295 | 194.9 | 41.1 | 9.25 | 1.248 | 89.9 | 0.533 | 2.108 | 0.4 | 146.3 | --- | --- | 1.59 | 0.513 | 118.0 | 39.8 | 2.9 | 0.253 |
| 4-3130 | 4-3450 | 0.286 | 193.9 | 41.4 | 9.00 | 1.242 | 89.7 | 0.517 | 2.035 | 0.9 | 151.2 | --- | --- | 1.80 | 0.492 | 114.4 | 37.8 | 3.6 | 0.226 |
| 4-3130 | 4-3470 | 0.279 | 193.2 | 41.0 | 8.68 | 1.237 | 89.6 | 0.505 | 1.987 | 1.1 | 155.8 | --- | --- | 2.09 | 0.475 | 111.0 | 35.3 | 4.5 | 0.205 |
| 4-3130 | 4-3490 | 0.270 | 192.6 | 39.8 | 8.24 | 1.233 | 89.7 | 0.496 | 1.954 | 0.9 | 159.9 | --- | --- | 2.49 | 0.462 | 107.7 | 32.3 | 5.8 | 0.189 |
| 4-3130 | 4-3510 | 0.261 | 191.9 | 37.5 | 7.60 | 1.231 | 89.9 | 0.491 | 1.933 | 0.4 | 163.7 | --- | --- | 3.10 | 0.451 | 104.6 | 29.0 | 7.7 | 0.177 |
| 4-3130 | 4-3530 | 0.249 | 190.6 | 33.2 | 6.55 | 1.230 | 90.1 | 0.487 | 1.920 | 359.7 | 527.2 | 0.984 | --- | 4.12 | 0.443 | 101.6 | 25.7 | 10.5 | 0.171 |
| 4-3130 | 4-3550 | 0.230 | 187.3 | 23.9 | 4.48 | 1.229 | 90.4 | 0.486 | 1.913 | 358.8 | 530.4 | 0.984 | --- | 6.16 | 0.436 | 98.8 | 22.4 | 15.7 | 0.171 |
| 4-3130 | 4-3570 | 0.215 | 175.3 | -7.3 | -1.50 | 1.229 | 90.8 | 0.485 | 1.911 | 357.7 | 533.4 | 0.984 | --- | 12.10 | 0.431 | 96.1 | 19.6 | 28.0 | 0.192 |
| 4-3130 | 4-3610 | 0.498 | 241.7 | 60.7 | 23.20 | 1.229 | 91.8 | 0.487 | 1.916 | 354.6 | 538.7 | 0.983 | --- | -12.66 | 0.424 | 91.2 | 16.2 | -28.5 | 0.195 |
| 4-3130 | 4-3630 | 0.394 | 226.4 | 53.2 | 16.90 | 1.230 | 92.3 | 0.489 | 1.923 | 353.1 | 541.1 | 0.982 | 2.864 | -6.40 | 0.422 | 89.0 | 14.5 | -15.8 | 0.173 |
| 4-3130 | 4-3650 | 0.362 | 222.9 | 48.3 | 14.77 | 1.231 | 92.9 | 0.492 | 1.931 | 351.3 | 543.3 | 0.980 | 2.881 | -4.30 | 0.421 | 86.8 | 13.6 | -10.6 | 0.172 |
| 4-3130 | 4-3670 | 0.349 | 222.3 | 44.7 | 13.70 | 1.232 | 93.5 | 0.496 | 1.940 | 349.5 | 545.4 | 0.979 | 2.902 | -3.25 | 0.421 | 84.7 | 13.4 | -7.8 | 0.174 |
| 4-3130 | 4-3690 | 0.342 | 222.9 | 41.5 | 13.05 | 1.233 | 94.1 | 0.499 | 1.950 | 347.6 | 547.4 | 0.976 | 2.925 | -2.63 | 0.420 | 82.8 | 13.5 | -6.2 | 0.179 |
| 4-3130 | 4-3710 | 0.340 | 224.0 | 38.7 | 12.60 | 1.234 | 94.8 | 0.504 | 1.962 | 345.5 | 549.2 | 0.974 | 2.950 | -2.22 | 0.421 | 80.9 | 14.2 | -5.0 | 0.184 |
| 4-3130 | 4-3730 | 0.340 | 225.4 | 36.0 | 12.28 | 1.235 | 95.6 | 0.508 | 1.974 | 343.4 | 550.9 | 0.970 | 2.977 | -1.93 | 0.422 | 79.1 | 15.1 | -4.2 | 0.189 |
| 4-3130 | 4-3750 | 0.343 | 226.9 | 33.4 | 12.04 | 1.237 | 96.3 | 0.514 | 1.986 | 341.3 | 552.6 | 0.966 | 3.006 | -1.72 | 0.423 | 77.4 | 16.4 | -3.6 | 0.195 |
| 4-3130 | 4-3770 | 0.347 | 228.5 | 30.9 | 11.84 | 1.238 | 97.1 | 0.519 | 1.999 | 339.0 | 554.1 | 0.962 | 3.037 | -1.55 | 0.424 | 75.7 | 17.9 | -3.2 | 0.201 |
| 4-3130 | 4-3790 | 0.352 | 230.2 | 28.4 | 11.68 | 1.239 | 98.0 | 0.525 | 2.013 | 336.7 | 555.6 | 0.956 | 3.069 | -1.42 | 0.426 | 74.1 | 19.6 | -2.8 | 0.207 |
| 4-3130 | 4-3810 | 0.359 | 231.9 | 26.0 | 11.54 | 1.241 | 98.8 | 0.531 | 2.026 | 334.4 | 557.0 | 0.950 | 3.102 | -1.32 | 0.428 | 72.5 | 21.6 | -2.5 | 0.213 |
| 4-3130 | 4-3830 | 0.367 | 233.7 | 23.6 | 11.42 | 1.242 | 99.7 | 0.537 | 2.040 | 332.0 | 558.3 | 0.944 | 3.136 | -1.23 | 0.430 | 71.0 | 23.7 | -2.3 | 0.219 |
| 4-3140 | 4-3280 | 0.547 | 203.5 | 20.4 | 9.71 | 1.519 | 92.5 | 1.268 | -3.660 | 355.5 | 456.6 | 0.982 | --- | 2.79 | 1.020 | 145.9 | 39.5 | 2.0 | 0.815 |
| 4-3140 | 4-3300 | 0.463 | 201.5 | 24.2 | 9.47 | 1.434 | 91.2 | 1.023 | 42.932 | 357.7 | 463.6 | 0.983 | --- | 2.85 | 0.887 | 142.6 | 40.8 | 2.3 | 0.678 |
| 4-3140 | 4-3320 | 0.406 | 198.8 | 27.9 | 9.22 | 1.375 | 89.9 | 0.860 | 7.016 | 0.1 | 110.8 | --- | --- | 2.93 | 0.786 | 139.2 | 41.8 | 2.6 | 0.570 |
| 4-3140 | 4-3340 | 0.366 | 195.7 | 31.2 | 8.95 | 1.333 | 88.9 | 0.748 | 3.904 | 2.6 | 117.9 | --- | --- | 3.03 | 0.707 | 135.5 | 42.4 | 3.1 | 0.484 |
| 4-3140 | 4-3360 | 0.338 | 192.4 | 33.8 | 8.67 | 1.303 | 88.0 | 0.670 | 2.979 | 4.9 | 124.9 | --- | --- | 3.16 | 0.645 | 131.7 | 42.8 | 3.7 | 0.415 |
| 4-3140 | 4-3380 | 0.317 | 189.3 | 35.7 | 8.36 | 1.281 | 87.4 | 0.615 | 2.550 | 6.9 | 131.5 | --- | --- | 3.32 | 0.596 | 127.9 | 42.6 | 4.4 | 0.358 |
| 4-3140 | 4-3400 | 0.302 | 186.4 | 36.8 | 8.02 | 1.265 | 86.9 | 0.576 | 2.311 | 8.5 | 137.6 | --- | --- | 3.53 | 0.558 | 124.1 | 42.0 | 5.2 | 0.312 |
| 4-3140 | 4-3420 | 0.289 | 184.0 | 37.1 | 7.64 | 1.254 | 86.5 | 0.548 | 2.165 | 9.8 | 143.4 | --- | --- | 3.78 | 0.527 | 120.3 | 40.9 | 6.3 | 0.274 |
| 4-3140 | 4-3440 | 0.279 | 182.0 | 36.7 | 7.20 | 1.245 | 86.4 | 0.528 | 2.071 | 10.6 | 148.6 | --- | --- | 4.10 | 0.503 | 116.6 | 39.1 | 7.6 | 0.244 |
| 4-3140 | 4-3460 | 0.269 | 180.4 | 35.6 | 6.69 | 1.239 | 86.3 | 0.514 | 2.009 | 11.0 | 153.4 | --- | --- | 4.49 | 0.483 | 113.1 | 36.8 | 9.1 | 0.220 |
| 4-3140 | 4-3480 | 0.259 | 179.2 | 33.6 | 6.07 | 1.235 | 86.3 | 0.503 | 1.968 | 11.0 | 157.7 | --- | --- | 5.00 | 0.468 | 109.7 | 34.0 | 10.9 | 0.202 |
| 4-3140 | 4-3500 | 0.249 | 178.1 | 30.6 | 5.30 | 1.232 | 86.5 | 0.496 | 1.941 | 10.7 | 161.7 | --- | --- | 5.66 | 0.456 | 106.4 | 30.9 | 13.2 | 0.189 |
| 4-3140 | 4-3520 | 0.239 | 177.0 | 26.1 | 4.30 | 1.230 | 86.7 | 0.491 | 1.924 | 10.1 | 165.4 | --- | --- | 6.55 | 0.446 | 103.3 | 27.6 | 15.8 | 0.182 |
| 4-3140 | 4-3540 | 0.229 | 175.4 | 19.4 | 2.94 | 1.229 | 87.0 | 0.488 | 1.914 | 9.3 | 168.7 | --- | --- | 7.81 | 0.439 | 100.4 | 24.4 | 19.1 | 0.179 |
| 4-3140 | 4-3560 | 0.220 | 172.8 | 8.9 | 0.95 | 1.229 | 87.3 | 0.487 | 1.910 | 8.2 | 171.8 | --- | --- | 9.70 | 0.433 | 97.7 | 21.5 | 23.4 | 0.182 |
| 4-3140 | 4-3580 | 0.222 | 167.6 | -8.5 | -2.27 | 1.229 | 87.7 | 0.486 | 1.910 | 7.0 | 174.6 | --- | --- | 12.81 | 0.429 | 95.1 | 19.2 | 29.1 | 0.195 |
| 4-3140 | 4-3600 | 0.271 | 155.6 | -35.0 | -8.37 | 1.229 | 88.1 | 0.487 | 1.914 | 5.7 | 177.2 | --- | --- | 18.81 | 0.426 | 92.6 | 17.9 | 36.9 | 0.228 |
| 4-3140 | 4-3620 | 0.509 | 116.9 | -61.2 | -23.81 | 1.230 | 88.5 | 0.488 | 1.919 | 4.6 | 179.7 | --- | --- | 34.16 | 0.423 | 90.3 | 19.5 | 45.5 | 0.333 |
| 4-3140 | 4-3660 | 0.888 | 293.8 | 65.4 | 45.25 | 1.232 | 90.3 | 0.492 | 1.936 | 359.1 | 543.9 | 0.983 | 2.889 | -35.09 | 0.421 | 86.2 | 21.3 | -45.1 | 0.341 |
| 4-3140 | 4-3680 | 0.609 | 258.0 | 64.1 | 29.42 | 1.233 | 90.8 | 0.495 | 1.947 | 357.7 | 546.0 | 0.983 | 2.910 | -19.36 | 0.421 | 84.2 | 17.3 | -35.6 | 0.238 |
| 4-3140 | 4-3700 | 0.501 | 243.7 | 59.3 | 23.23 | 1.234 | 91.4 | 0.498 | 1.958 | 355.8 | 547.9 | 0.983 | 2.934 | -13.26 | 0.421 | 82.3 | 16.3 | -27.1 | 0.210 |
| 4-3140 | 4-3720 | 0.448 | 237.7 | 54.5 | 19.98 | 1.235 | 92.0 | 0.502 | 1.970 | 353.9 | 549.7 | 0.982 | 2.959 | -10.10 | 0.422 | 80.5 | 16.4 | -21.3 | 0.201 |
| 4-3140 | 4-3740 | 0.417 | 235.3 | 50.3 | 17.98 | 1.237 | 92.8 | 0.506 | 1.983 | 351.8 | 551.4 | 0.980 | 2.986 | -8.19 | 0.423 | 78.8 | 17.1 | -17.2 | 0.200 |
| 4-3140 | 4-3760 | 0.398 | 234.5 | 46.4 | 16.61 | 1.238 | 93.5 | 0.510 | 1.996 | 349.6 | 553.0 | 0.978 | 3.014 | -6.92 | 0.424 | 77.2 | 18.3 | -14.3 | 0.201 |
| 4-3140 | 4-3780 | 0.386 | 234.6 | 42.8 | 15.61 | 1.239 | 94.3 | 0.515 | 2.010 | 347.4 | 554.5 | 0.975 | 3.044 | -6.02 | 0.426 | 75.6 | 19.8 | -12.2 | 0.205 |
| 4-3140 | 4-3800 | 0.379 | 235.4 | 39.4 | 14.84 | 1.241 | 95.1 | 0.520 | 2.024 | 345.1 | 555.9 | 0.972 | 3.075 | -5.34 | 0.428 | 74.1 | 21.5 | -10.6 | 0.209 |
| 4-3140 | 4-3820 | 0.375 | 236.4 | 36.2 | 14.23 | 1.242 | 95.9 | 0.525 | 2.038 | 342.8 | 557.3 | 0.968 | 3.107 | -4.83 | 0.430 | 72.6 | 23.4 | -9.3 | 0.213 |
| 4-3140 | 4-3840 | 0.375 | 237.8 | 33.0 | 13.72 | 1.244 | 96.8 | 0.530 | 2.052 | 340.4 | 558.6 | 0.964 | 3.140 | -4.42 | 0.433 | 71.2 | 25.5 | -8.3 | 0.218 |
| 4-3150 | 4-3270 | 0.628 | 200.3 | 19.1 | 9.72 | 1.605 | 88.2 | 1.532 | -1.846 | 3.0 | 91.7 | --- | --- | 4.50 | 1.144 | 148.0 | 39.7 | 2.9 | 0.942 |
| 4-3150 | 4-3290 | 0.518 | 197.6 | 22.8 | 9.34 | 1.490 | 87.1 | 1.183 | -5.351 | 5.3 | 98.8 | --- | --- | 4.51 | 0.976 | 145.0 | 40.8 | 3.3 | 0.771 |
| 4-3150 | 4-3310 | 0.445 | 194.1 | 26.3 | 8.96 | 1.413 | 86.1 | 0.962 | 25.764 | 8.0 | 106.2 | --- | --- | 4.55 | 0.850 | 141.6 | 41.7 | 3.7 | 0.641 |
| 4-3150 | 4-3330 | 0.396 | 190.0 | 29.3 | 8.58 | 1.358 | 85.1 | 0.816 | 5.296 | 10.8 | 113.8 | --- | --- | 4.62 | 0.754 | 138.0 | 42.4 | 4.3 | 0.540 |
| 4-3150 | 4-3350 | 0.363 | 185.9 | 31.6 | 8.19 | 1.320 | 84.3 | 0.717 | 3.433 | 13.6 | 121.2 | --- | --- | 4.72 | 0.680 | 134.3 | 42.8 | 5.0 | 0.459 |
| 4-3150 | 4-3370 | 0.340 | 181.9 | 33.0 | 7.78 | 1.293 | 83.7 | 0.649 | 2.757 | 16.0 | 128.2 | --- | --- | 4.86 | 0.622 | 130.4 | 42.8 | 5.9 | 0.394 |
| 4-3150 | 4-3390 | 0.323 | 178.4 | 33.7 | 7.34 | 1.273 | 83.2 | 0.601 | 2.420 | 18.1 | 134.8 | --- | --- | 5.04 | 0.577 | 126.5 | 42.2 | 6.9 | 0.341 |
| 4-3150 | 4-3410 | 0.310 | 175.5 | 33.7 | 6.88 | 1.259 | 82.9 | 0.568 | 2.226 | 19.6 | 140.9 | --- | --- | 5.27 | 0.541 | 122.6 | 41.2 | 8.1 | 0.298 |
| 4-3150 | 4-3430 | 0.299 | 173.1 | 33.0 | 6.37 | 1.249 | 82.7 | 0.544 | 2.106 | 20.7 | 146.4 | --- | --- | 5.54 | 0.512 | 118.8 | 39.6 | 9.5 | 0.264 |
| 4-3150 | 4-3450 | 0.289 | 171.4 | 31.7 | 5.81 | 1.241 | 82.7 | 0.527 | 2.028 | 21.4 | 151.5 | --- | --- | 5.89 | 0.490 | 115.1 | 37.5 | 11.1 | 0.237 |
| 4-3150 | 4-3470 | 0.280 | 170.0 | 29.8 | 5.19 | 1.236 | 82.7 | 0.514 | 1.977 | 21.6 | 156.0 | --- | --- | 6.31 | 0.473 | 111.5 | 34.9 | 12.9 | 0.216 |
| 4-3150 | 4-3490 | 0.271 | 169.1 | 27.2 | 4.47 | 1.233 | 82.8 | 0.506 | 1.943 | 21.4 | 160.1 | --- | --- | 6.83 | 0.459 | 108.1 | 31.9 | 14.9 | 0.201 |
| 4-3150 | 4-3510 | 0.262 | 168.3 | 23.7 | 3.62 | 1.230 | 83.1 | 0.500 | 1.922 | 20.9 | 163.9 | --- | --- | 7.49 | 0.448 | 104.9 | 28.7 | 17.2 | 0.191 |
| 4-3150 | 4-3530 | 0.253 | 167.6 | 19.1 | 2.61 | 1.229 | 83.4 | 0.496 | 1.910 | 20.2 | 167.3 | --- | --- | 8.32 | 0.440 | 101.9 | 25.6 | 19.6 | 0.186 |
| 4-3150 | 4-3550 | 0.245 | 166.6 | 13.0 | 1.35 | 1.228 | 83.7 | 0.493 | 1.904 | 19.2 | 170.5 | --- | --- | 9.40 | 0.433 | 99.0 | 22.6 | 22.3 | 0.185 |
| 4-3150 | 4-3570 | 0.240 | 165.2 | 4.9 | -0.27 | 1.228 | 84.1 | 0.492 | 1.903 | 18.0 | 173.3 | --- | --- | 10.85 | 0.429 | 96.4 | 20.1 | 25.3 | 0.188 |
| 4-3150 | 4-3590 | 0.241 | 162.6 | -6.2 | -2.45 | 1.229 | 84.5 | 0.491 | 1.906 | 16.6 | 176.0 | --- | --- | 12.87 | 0.425 | 93.8 | 18.3 | 28.8 | 0.196 |
| 4-3150 | 4-3610 | 0.257 | 158.0 | -20.7 | -5.58 | 1.229 | 85.0 | 0.491 | 1.911 | 15.2 | 178.5 | --- | --- | 15.84 | 0.423 | 91.5 | 17.2 | 32.9 | 0.212 |
| 4-3150 | 4-3630 | 0.308 | 148.8 | -37.8 | -10.49 | 1.230 | 85.5 | 0.492 | 1.919 | 13.7 | 180.8 | --- | 2.863 | 20.58 | 0.421 | 89.2 | 17.2 | 37.8 | 0.241 |
| 4-3150 | 4-3650 | 0.436 | 128.8 | -53.9 | -19.16 | 1.231 | 85.9 | 0.494 | 1.928 | 12.3 | 183.0 | --- | 2.880 | 29.10 | 0.420 | 87.1 | 19.1 | 43.1 | 0.299 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3150 | 4-3670 | 0.751 | 87.6 | -59.9 | -37.31 | 1.232 | 86.3 | 0.496 | 1.939 | 11.3 | 185.1 | --- | 2.900 | 47.09 | 0.420 | 85.0 | 24.8 | 45.8 | 0.428 |
| 4-3150 | 4-3710 | 1.159 | 322.2 | 64.2 | 61.06 | 1.235 | 89.1 | 0.499 | 1.963 | 2.6 | 188.3 | --- | 2.943 | -51.59 | 0.421 | 81.9 | 30.2 | -45.3 | 0.460 |
| 4-3150 | 4-3730 | 0.810 | 284.2 | 68.2 | 40.68 | 1.236 | 89.5 | 0.502 | 1.976 | 1.5 | 190.2 | --- | 2.969 | -31.36 | 0.422 | 80.1 | 24.8 | -42.6 | 0.320 |
| 4-3150 | 4-3750 | 0.642 | 261.6 | 65.0 | 31.17 | 1.237 | 90.1 | 0.506 | 1.990 | 359.7 | 551.8 | 0.983 | 2.996 | -21.99 | 0.424 | 78.4 | 22.5 | -36.1 | 0.263 |
| 4-3150 | 4-3770 | 0.550 | 250.8 | 60.6 | 25.91 | 1.239 | 90.8 | 0.509 | 2.004 | 357.7 | 553.4 | 0.983 | 3.024 | -16.88 | 0.425 | 76.8 | 22.2 | -30.2 | 0.239 |
| 4-3150 | 4-3790 | 0.494 | 245.6 | 56.1 | 22.59 | 1.240 | 91.5 | 0.513 | 2.018 | 355.6 | 554.9 | 0.982 | 3.053 | -13.72 | 0.427 | 75.3 | 22.9 | -25.4 | 0.229 |
| 4-3150 | 4-3810 | 0.458 | 243.2 | 51.9 | 20.32 | 1.242 | 92.3 | 0.517 | 2.032 | 353.4 | 556.3 | 0.981 | 3.084 | -11.60 | 0.430 | 73.9 | 24.2 | -21.7 | 0.225 |
| 4-3150 | 4-3830 | 0.433 | 242.4 | 47.8 | 18.64 | 1.243 | 93.1 | 0.522 | 2.047 | 351.1 | 557.7 | 0.979 | 3.115 | -10.08 | 0.432 | 72.5 | 25.8 | -18.7 | 0.224 |
| 4-3150 | 4-3850 | 0.416 | 242.4 | 44.0 | 17.35 | 1.245 | 93.9 | 0.526 | 2.062 | 348.7 | 559.0 | 0.977 | 3.147 | -8.94 | 0.435 | 71.2 | 27.8 | -16.5 | 0.226 |
| 4-3160 | 4-3280 | 0.611 | 194.0 | 21.4 | 9.65 | 1.565 | 82.2 | 1.403 | -2.405 | 13.4 | 94.4 | --- | --- | 6.20 | 1.087 | 147.5 | 40.6 | 4.1 | 0.889 |
| 4-3160 | 4-3300 | 0.515 | 189.9 | 24.6 | 9.13 | 1.460 | 81.5 | 1.094 | 10.217 | 16.4 | 102.2 | --- | --- | 6.14 | 0.928 | 144.3 | 41.4 | 4.6 | 0.727 |
| 4-3160 | 4-3320 | 0.453 | 185.3 | 27.3 | 8.62 | 1.389 | 80.7 | 0.900 | 9.612 | 19.6 | 110.1 | --- | --- | 6.12 | 0.810 | 140.8 | 42.0 | 5.2 | 0.605 |
| 4-3160 | 4-3340 | 0.413 | 180.7 | 29.2 | 8.12 | 1.340 | 80.1 | 0.774 | 4.203 | 22.8 | 118.0 | --- | --- | 6.15 | 0.720 | 137.0 | 42.4 | 5.9 | 0.510 |
| 4-3160 | 4-3360 | 0.386 | 176.4 | 30.3 | 7.62 | 1.305 | 79.5 | 0.689 | 3.039 | 25.7 | 125.5 | --- | --- | 6.21 | 0.650 | 133.1 | 42.4 | 6.8 | 0.434 |
| 4-3160 | 4-3380 | 0.366 | 172.7 | 30.7 | 7.10 | 1.281 | 79.2 | 0.632 | 2.549 | 28.2 | 132.6 | --- | --- | 6.32 | 0.596 | 129.1 | 41.9 | 7.8 | 0.374 |
| 4-3160 | 4-3400 | 0.352 | 169.7 | 30.4 | 6.57 | 1.263 | 78.9 | 0.592 | 2.290 | 30.1 | 139.0 | --- | --- | 6.47 | 0.554 | 125.1 | 40.9 | 9.0 | 0.325 |
| 4-3160 | 4-3420 | 0.340 | 167.4 | 29.6 | 6.02 | 1.251 | 78.7 | 0.564 | 2.137 | 31.5 | 144.8 | --- | --- | 6.67 | 0.521 | 121.1 | 39.5 | 10.4 | 0.286 |
| 4-3160 | 4-3440 | 0.330 | 165.7 | 28.4 | 5.44 | 1.242 | 78.7 | 0.544 | 2.041 | 32.3 | 150.1 | --- | --- | 6.92 | 0.495 | 117.2 | 37.4 | 12.0 | 0.256 |
| 4-3160 | 4-3460 | 0.321 | 164.5 | 26.7 | 4.81 | 1.236 | 78.8 | 0.530 | 1.979 | 32.7 | 154.8 | --- | --- | 7.24 | 0.475 | 113.4 | 35.0 | 13.7 | 0.232 |
| 4-3160 | 4-3480 | 0.312 | 163.6 | 24.6 | 4.13 | 1.232 | 79.0 | 0.520 | 1.939 | 32.6 | 159.1 | --- | --- | 7.62 | 0.460 | 109.9 | 32.1 | 15.5 | 0.214 |
| 4-3160 | 4-3500 | 0.303 | 163.1 | 21.9 | 3.38 | 1.229 | 79.2 | 0.513 | 1.914 | 32.2 | 162.9 | --- | --- | 8.09 | 0.448 | 106.5 | 29.0 | 17.4 | 0.202 |
| 4-3160 | 4-3520 | 0.295 | 162.7 | 18.7 | 2.54 | 1.227 | 79.5 | 0.508 | 1.899 | 31.5 | 166.4 | --- | --- | 8.66 | 0.438 | 103.3 | 25.9 | 19.4 | 0.194 |
| 4-3160 | 4-3540 | 0.287 | 162.4 | 14.7 | 1.57 | 1.227 | 79.9 | 0.504 | 1.891 | 30.5 | 169.6 | --- | --- | 9.37 | 0.432 | 100.3 | 23.0 | 21.3 | 0.190 |
| 4-3160 | 4-3560 | 0.279 | 161.9 | 9.8 | 0.45 | 1.226 | 80.3 | 0.502 | 1.890 | 29.3 | 172.5 | --- | --- | 10.25 | 0.426 | 97.5 | 20.5 | 23.4 | 0.190 |
| 4-3160 | 4-3580 | 0.274 | 161.2 | 3.6 | -0.90 | 1.227 | 80.8 | 0.500 | 1.892 | 27.9 | 175.1 | --- | --- | 11.35 | 0.423 | 94.8 | 18.5 | 25.5 | 0.193 |
| 4-3160 | 4-3600 | 0.273 | 160.0 | -3.9 | -2.56 | 1.227 | 81.3 | 0.499 | 1.897 | 26.4 | 177.6 | --- | --- | 12.78 | 0.420 | 92.4 | 17.0 | 27.8 | 0.199 |
| 4-3160 | 4-3620 | 0.278 | 157.9 | -13.3 | -4.67 | 1.228 | 81.8 | 0.499 | 1.905 | 24.8 | 179.9 | --- | --- | 14.67 | 0.419 | 90.1 | 16.2 | 30.5 | 0.209 |
| 4-3160 | 4-3640 | 0.296 | 154.1 | -24.3 | -7.48 | 1.229 | 82.3 | 0.500 | 1.915 | 23.2 | 182.1 | --- | 2.872 | 17.25 | 0.418 | 87.9 | 16.2 | 33.5 | 0.224 |
| 4-3160 | 4-3660 | 0.336 | 147.3 | -36.5 | -11.41 | 1.230 | 82.9 | 0.501 | 1.926 | 21.5 | 184.1 | --- | 2.890 | 20.96 | 0.418 | 85.9 | 17.2 | 37.0 | 0.248 |
| 4-3160 | 4-3680 | 0.418 | 135.0 | -48.2 | -17.31 | 1.232 | 83.4 | 0.502 | 1.938 | 19.8 | 186.1 | --- | 2.911 | 26.65 | 0.418 | 84.0 | 19.4 | 40.8 | 0.286 |
| 4-3160 | 4-3700 | 0.576 | 112.8 | -56.1 | -26.98 | 1.233 | 83.9 | 0.504 | 1.951 | 18.3 | 187.9 | --- | 2.935 | 36.11 | 0.419 | 82.1 | 23.7 | 44.1 | 0.351 |
| 4-3160 | 4-3720 | 0.877 | 82.0 | -55.1 | -44.30 | 1.235 | 84.2 | 0.507 | 1.965 | 17.4 | 189.7 | --- | 2.961 | 53.22 | 0.420 | 80.3 | 31.0 | 44.6 | 0.472 |
| 4-3160 | 4-3760 | 1.341 | 342.0 | 64.0 | 72.27 | 1.238 | 88.2 | 0.507 | 1.993 | 5.3 | 192.2 | --- | 3.005 | -63.76 | 0.424 | 78.0 | 39.6 | -43.0 | 0.545 |
| 4-3160 | 4-3780 | 0.982 | 306.0 | 70.7 | 50.44 | 1.239 | 88.4 | 0.511 | 2.008 | 4.7 | 193.8 | --- | 3.034 | -42.13 | 0.426 | 76.4 | 34.2 | -44.3 | 0.397 |
| 4-3160 | 4-3800 | 0.772 | 276.6 | 69.2 | 38.42 | 1.241 | 88.9 | 0.514 | 2.023 | 3.1 | 195.3 | --- | 3.064 | -30.31 | 0.428 | 74.9 | 30.9 | -40.6 | 0.321 |
| 4-3160 | 4-3820 | 0.648 | 261.2 | 65.0 | 31.36 | 1.242 | 89.6 | 0.517 | 2.039 | 1.2 | 196.8 | --- | 3.094 | -23.45 | 0.431 | 73.5 | 29.9 | -35.6 | 0.282 |
| 4-3160 | 4-3840 | 0.569 | 253.6 | 60.4 | 26.81 | 1.243 | 90.3 | 0.521 | 2.054 | 359.1 | 558.1 | 0.984 | 3.124 | -19.10 | 0.433 | 72.2 | 30.2 | -31.0 | 0.262 |
| 4-3160 | 4-3860 | 0.515 | 249.9 | 55.9 | 23.64 | 1.245 | 91.1 | 0.525 | 2.069 | 356.9 | 559.4 | 0.983 | 3.156 | -16.14 | 0.436 | 70.9 | 31.3 | -27.1 | 0.252 |
| 4-3170 | 4-3290 | 0.625 | 186.8 | 22.9 | 9.73 | 1.524 | 75.9 | 1.271 | -3.442 | 25.2 | 98.6 | --- | --- | 7.89 | 1.027 | 147.2 | 40.8 | 5.2 | 0.838 |
| 4-3170 | 4-3310 | 0.541 | 182.0 | 25.2 | 9.07 | 1.428 | 75.5 | 1.007 | 23.642 | 28.9 | 107.0 | --- | --- | 7.72 | 0.877 | 143.8 | 41.3 | 5.8 | 0.686 |
| 4-3170 | 4-3330 | 0.488 | 177.3 | 26.7 | 8.43 | 1.364 | 75.1 | 0.844 | 5.857 | 32.6 | 115.4 | --- | --- | 7.62 | 0.766 | 140.1 | 41.6 | 6.6 | 0.571 |
| 4-3170 | 4-3350 | 0.454 | 173.1 | 27.5 | 7.81 | 1.320 | 74.8 | 0.739 | 3.462 | 36.0 | 123.4 | --- | --- | 7.56 | 0.682 | 136.1 | 41.5 | 7.4 | 0.482 |
| 4-3170 | 4-3370 | 0.430 | 169.5 | 27.7 | 7.20 | 1.289 | 74.5 | 0.669 | 2.712 | 38.9 | 130.9 | --- | --- | 7.56 | 0.617 | 132.0 | 41.0 | 8.4 | 0.412 |
| 4-3170 | 4-3390 | 0.413 | 166.7 | 27.3 | 6.60 | 1.268 | 74.4 | 0.622 | 2.359 | 41.2 | 137.8 | --- | --- | 7.61 | 0.568 | 127.8 | 40.1 | 9.6 | 0.356 |
| 4-3170 | 4-3410 | 0.399 | 164.6 | 26.5 | 5.99 | 1.253 | 74.3 | 0.590 | 2.164 | 42.9 | 143.9 | --- | --- | 7.70 | 0.529 | 123.6 | 38.7 | 10.9 | 0.312 |
| 4-3170 | 4-3430 | 0.388 | 163.0 | 25.4 | 5.37 | 1.242 | 74.4 | 0.568 | 2.047 | 43.9 | 149.4 | --- | --- | 7.84 | 0.499 | 119.5 | 36.7 | 12.4 | 0.277 |
| 4-3170 | 4-3450 | 0.378 | 161.9 | 23.9 | 4.72 | 1.235 | 74.5 | 0.552 | 1.973 | 44.4 | 154.2 | --- | --- | 8.03 | 0.476 | 115.5 | 34.3 | 13.9 | 0.250 |
| 4-3170 | 4-3470 | 0.368 | 161.2 | 22.2 | 4.06 | 1.230 | 74.8 | 0.540 | 1.926 | 44.4 | 158.5 | --- | --- | 8.29 | 0.458 | 111.7 | 31.6 | 15.5 | 0.229 |
| 4-3170 | 4-3490 | 0.359 | 160.8 | 20.1 | 3.35 | 1.226 | 75.1 | 0.531 | 1.897 | 44.0 | 162.4 | --- | --- | 8.60 | 0.445 | 108.0 | 28.6 | 17.2 | 0.214 |
| 4-3170 | 4-3510 | 0.349 | 160.6 | 17.7 | 2.59 | 1.224 | 75.4 | 0.525 | 1.880 | 43.2 | 165.9 | --- | --- | 8.98 | 0.435 | 104.6 | 25.6 | 18.8 | 0.204 |
| 4-3170 | 4-3530 | 0.341 | 160.5 | 14.9 | 1.77 | 1.223 | 75.8 | 0.520 | 1.871 | 42.2 | 169.1 | --- | --- | 9.45 | 0.427 | 101.4 | 22.7 | 20.3 | 0.198 |
| 4-3170 | 4-3550 | 0.332 | 160.5 | 11.6 | 0.86 | 1.223 | 76.3 | 0.517 | 1.869 | 41.0 | 171.9 | --- | --- | 10.02 | 0.422 | 98.5 | 20.2 | 21.8 | 0.195 |
| 4-3170 | 4-3570 | 0.324 | 160.4 | 7.7 | -0.16 | 1.223 | 76.8 | 0.515 | 1.871 | 39.6 | 174.6 | --- | --- | 10.72 | 0.418 | 95.7 | 18.1 | 23.3 | 0.196 |
| 4-3170 | 4-3590 | 0.318 | 160.2 | 3.0 | -1.32 | 1.224 | 77.3 | 0.513 | 1.876 | 38.0 | 177.0 | --- | --- | 11.57 | 0.415 | 93.1 | 16.6 | 24.8 | 0.198 |
| 4-3170 | 4-3610 | 0.314 | 159.6 | -2.4 | -2.66 | 1.225 | 77.9 | 0.512 | 1.885 | 36.3 | 179.3 | --- | --- | 12.61 | 0.414 | 90.7 | 15.6 | 26.4 | 0.203 |
| 4-3170 | 4-3630 | 0.313 | 158.6 | -8.9 | -4.26 | 1.226 | 78.5 | 0.511 | 1.895 | 34.6 | 181.4 | --- | 2.864 | 13.92 | 0.413 | 88.5 | 15.2 | 28.2 | 0.210 |
| 4-3170 | 4-3650 | 0.319 | 156.9 | -16.4 | -6.21 | 1.227 | 79.1 | 0.511 | 1.907 | 32.7 | 183.4 | --- | 2.882 | 15.59 | 0.413 | 86.4 | 15.4 | 30.3 | 0.220 |
| 4-3170 | 4-3670 | 0.333 | 153.9 | -25.0 | -8.67 | 1.229 | 79.7 | 0.512 | 1.920 | 30.8 | 185.3 | --- | 2.902 | 17.77 | 0.414 | 84.5 | 16.2 | 32.6 | 0.234 |
| 4-3170 | 4-3690 | 0.363 | 148.9 | -34.3 | -11.87 | 1.230 | 80.3 | 0.512 | 1.934 | 28.9 | 187.1 | --- | 2.924 | 20.71 | 0.415 | 82.6 | 17.8 | 35.3 | 0.252 |
| 4-3170 | 4-3710 | 0.418 | 140.7 | -43.5 | -16.24 | 1.232 | 80.9 | 0.513 | 1.948 | 27.1 | 188.8 | --- | 2.948 | 24.82 | 0.417 | 80.9 | 20.2 | 38.2 | 0.279 |
| 4-3170 | 4-3730 | 0.512 | 127.2 | -51.1 | -22.54 | 1.234 | 81.4 | 0.515 | 1.963 | 25.3 | 190.5 | --- | 2.974 | 30.85 | 0.418 | 79.3 | 23.9 | 41.3 | 0.319 |
| 4-3170 | 4-3750 | 0.673 | 107.1 | -54.7 | -32.19 | 1.235 | 81.9 | 0.517 | 1.979 | 23.8 | 192.1 | --- | 3.002 | 40.26 | 0.420 | 77.7 | 29.4 | 43.7 | 0.384 |
| 4-3170 | 4-3770 | 0.941 | 84.2 | -51.4 | -47.74 | 1.237 | 82.2 | 0.520 | 1.995 | 22.8 | 193.7 | --- | 3.031 | 55.55 | 0.423 | 76.1 | 37.2 | 43.6 | 0.490 |
| 4-3170 | 4-3790 | 1.333 | 66.0 | -40.6 | -71.63 | 1.238 | 82.1 | 0.524 | 2.011 | 23.0 | 195.3 | --- | 3.063 | 79.20 | 0.425 | 74.4 | 46.2 | 38.6 | 0.645 |
| 4-3170 | 4-3810 | 1.467 | 359.1 | 64.8 | 80.47 | 1.240 | 87.4 | 0.516 | 2.027 | 7.7 | 195.6 | --- | 3.072 | -73.16 | 0.428 | 74.6 | 48.8 | -40.6 | 0.607 |
| 4-3170 | 4-3830 | 1.123 | 325.6 | 73.1 | 58.66 | 1.242 | 87.5 | 0.519 | 2.043 | 7.5 | 197.1 | --- | 3.104 | -51.59 | 0.431 | 73.1 | 44.3 | -44.0 | 0.466 |
| 4-3170 | 4-3850 | 0.888 | 289.2 | 72.9 | 44.87 | 1.243 | 87.9 | 0.523 | 2.059 | 6.2 | 198.5 | --- | 3.135 | -38.05 | 0.434 | 71.8 | 40.5 | -42.5 | 0.376 |
| 4-3170 | 4-3870 | 0.736 | 268.7 | 68.7 | 36.24 | 1.245 | 88.5 | 0.526 | 2.075 | 4.4 | 199.8 | --- | 3.166 | -29.67 | 0.437 | 70.6 | 38.7 | -38.8 | 0.326 |
| 4-3180 | 4-3320 | 0.594 | 175.7 | 24.3 | 9.15 | 1.396 | 69.3 | 0.931 | 12.452 | 43.0 | 113.5 | --- | --- | 9.29 | 0.824 | 143.6 | 40.4 | 7.0 | 0.649 |
| 4-3180 | 4-3340 | 0.547 | 171.6 | 24.9 | 8.37 | 1.338 | 69.3 | 0.799 | 4.210 | 47.0 | 122.1 | --- | --- | 9.06 | 0.720 | 139.6 | 40.2 | 7.8 | 0.541 |
| 4-3180 | 4-3360 | 0.515 | 168.3 | 24.9 | 7.63 | 1.299 | 69.3 | 0.715 | 2.936 | 50.4 | 130.1 | --- | --- | 8.90 | 0.641 | 135.4 | 39.7 | 8.7 | 0.458 |
| 4-3180 | 4-3380 | 0.492 | 165.8 | 24.5 | 6.91 | 1.272 | 69.3 | 0.660 | 2.441 | 53.1 | 137.3 | --- | --- | 8.80 | 0.582 | 131.0 | 38.7 | 9.8 | 0.393 |
| 4-3180 | 4-3400 | 0.475 | 163.8 | 23.7 | 6.22 | 1.254 | 69.4 | 0.623 | 2.190 | 55.0 | 143.6 | --- | --- | 8.75 | 0.536 | 126.6 | 37.3 | 11.0 | 0.342 |
| 4-3180 | 4-3420 | 0.461 | 162.5 | 22.7 | 5.53 | 1.241 | 69.6 | 0.598 | 2.046 | 56.1 | 149.2 | --- | --- | 8.76 | 0.501 | 122.2 | 35.4 | 12.3 | 0.302 |
| 4-3180 | 4-3440 | 0.448 | 161.6 | 21.4 | 4.85 | 1.232 | 69.8 | 0.580 | 1.959 | 56.6 | 154.2 | --- | --- | 8.83 | 0.474 | 117.8 | 33.1 | 13.7 | 0.271 |
| 4-3180 | 4-3460 | 0.437 | 161.1 | 20.0 | 4.16 | 1.226 | 70.2 | 0.566 | 1.905 | 56.6 | 158.5 | --- | --- | 8.94 | 0.454 | 113.7 | 30.4 | 15.1 | 0.247 |
| 4-3180 | 4-3480 | 0.426 | 160.8 | 18.3 | 3.46 | 1.222 | 70.5 | 0.557 | 1.871 | 56.2 | 162.4 | --- | --- | 9.11 | 0.439 | 109.8 | 27.5 | 16.5 | 0.230 |
| 4-3180 | 4-3500 | 0.416 | 160.7 | 16.4 | 2.74 | 1.220 | 71.0 | 0.549 | 1.852 | 55.4 | 165.8 | --- | --- | 9.34 | 0.428 | 106.1 | 24.6 | 17.9 | 0.218 |
| 4-3180 | 4-3520 | 0.405 | 160.7 | 14.2 | 1.98 | 1.219 | 71.5 | 0.543 | 1.843 | 54.3 | 168.9 | --- | --- | 9.63 | 0.420 | 102.6 | 21.8 | 19.1 | 0.209 |
| 4-3180 | 4-3540 | 0.395 | 160.9 | 11.8 | 1.18 | 1.219 | 72.0 | 0.539 | 1.840 | 53.0 | 171.8 | --- | --- | 9.99 | 0.414 | 99.4 | 19.4 | 20.3 | 0.205 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3180 | 4-3560 | 0.386 | 161.0 | 9.1 | 0.32 | 1.219 | 72.6 | 0.535 | 1.842 | 51.5 | 174.3 | --- | --- | 10.43 | 0.410 | 96.4 | 17.3 | 21.3 | 0.203 |
| 4-3180 | 4-3580 | 0.377 | 161.2 | 5.9 | -0.61 | 1.220 | 73.1 | 0.532 | 1.849 | 49.9 | 176.7 | --- | --- | 10.96 | 0.408 | 93.7 | 15.8 | 22.4 | 0.203 |
| 4-3180 | 4-3600 | 0.369 | 161.2 | 2.3 | -1.63 | 1.221 | 73.8 | 0.530 | 1.858 | 48.1 | 178.9 | --- | --- | 11.60 | 0.407 | 91.2 | 14.7 | 23.5 | 0.205 |
| 4-3180 | 4-3620 | 0.363 | 161.1 | -1.8 | -2.77 | 1.222 | 74.4 | 0.529 | 1.869 | 46.2 | 181.0 | --- | 2.857 | 12.38 | 0.406 | 88.9 | 14.2 | 24.6 | 0.209 |
| 4-3180 | 4-3640 | 0.358 | 160.7 | -6.5 | -4.07 | 1.223 | 75.0 | 0.527 | 1.882 | 44.3 | 183.0 | --- | 2.874 | 13.32 | 0.407 | 86.7 | 14.2 | 25.9 | 0.214 |
| 4-3180 | 4-3660 | 0.357 | 159.9 | -11.9 | -5.56 | 1.225 | 75.7 | 0.527 | 1.896 | 42.3 | 184.8 | --- | 2.894 | 14.48 | 0.408 | 84.7 | 14.7 | 27.3 | 0.221 |
| 4-3180 | 4-3680 | 0.360 | 158.5 | -18.0 | -7.33 | 1.227 | 76.4 | 0.526 | 1.911 | 40.2 | 186.5 | --- | 2.916 | 15.92 | 0.409 | 82.8 | 15.6 | 28.9 | 0.230 |
| 4-3180 | 4-3700 | 0.371 | 156.2 | -24.8 | -9.46 | 1.229 | 77.0 | 0.526 | 1.926 | 38.2 | 188.2 | --- | 2.940 | 17.73 | 0.411 | 81.1 | 17.0 | 30.8 | 0.242 |
| 4-3180 | 4-3720 | 0.391 | 152.6 | -32.2 | -12.11 | 1.230 | 77.7 | 0.526 | 1.943 | 36.1 | 189.8 | --- | 2.965 | 20.06 | 0.413 | 79.5 | 19.0 | 33.0 | 0.256 |
| 4-3180 | 4-3740 | 0.428 | 146.8 | -39.7 | -15.50 | 1.232 | 78.4 | 0.527 | 1.959 | 34.1 | 191.3 | --- | 2.991 | 23.15 | 0.416 | 77.9 | 21.5 | 35.4 | 0.276 |
| 4-3180 | 4-3760 | 0.488 | 137.9 | -46.5 | -20.02 | 1.234 | 79.0 | 0.527 | 1.976 | 32.1 | 192.8 | --- | 3.018 | 27.37 | 0.418 | 76.5 | 24.9 | 38.1 | 0.303 |
| 4-3180 | 4-3780 | 0.584 | 124.6 | -51.5 | -26.31 | 1.236 | 79.6 | 0.529 | 1.993 | 30.3 | 194.3 | --- | 3.047 | 33.37 | 0.421 | 75.1 | 29.4 | 40.8 | 0.343 |
| 4-3180 | 4-3800 | 0.736 | 107.3 | -52.9 | -35.49 | 1.237 | 80.1 | 0.530 | 2.010 | 28.7 | 195.7 | --- | 3.076 | 42.25 | 0.424 | 73.7 | 35.5 | 42.8 | 0.403 |
| 4-3180 | 4-3820 | 0.971 | 89.3 | -49.0 | -49.29 | 1.239 | 80.5 | 0.533 | 2.027 | 27.7 | 197.1 | --- | 3.108 | 55.76 | 0.427 | 72.3 | 43.4 | 42.9 | 0.495 |
| 4-3180 | 4-3840 | 1.298 | 75.0 | -39.7 | -69.28 | 1.241 | 80.5 | 0.537 | 2.044 | 27.5 | 198.5 | --- | 3.141 | 75.48 | 0.431 | 70.9 | 52.3 | 39.2 | 0.624 |
| 4-3180 | 4-3880 | 1.236 | 345.4 | 75.7 | 65.45 | 1.244 | 86.6 | 0.528 | 2.078 | 10.0 | 200.1 | --- | 3.175 | -59.83 | 0.438 | 70.2 | 54.4 | -42.8 | 0.524 |
| 4-3190 | 4-3330 | 0.669 | 171.7 | 22.4 | 9.41 | 1.363 | 62.8 | 0.873 | 6.028 | 58.8 | 121.5 | --- | --- | 10.89 | 0.769 | 143.8 | 38.6 | 8.0 | 0.617 |
| 4-3190 | 4-3350 | 0.623 | 168.6 | 22.4 | 8.46 | 1.312 | 63.2 | 0.771 | 3.300 | 62.6 | 130.0 | --- | --- | 10.49 | 0.672 | 139.5 | 38.0 | 8.8 | 0.516 |
| 4-3190 | 4-3370 | 0.591 | 166.3 | 21.9 | 7.57 | 1.278 | 63.5 | 0.707 | 2.552 | 65.6 | 137.5 | --- | --- | 10.18 | 0.598 | 134.9 | 37.0 | 9.8 | 0.439 |
| 4-3190 | 4-3390 | 0.567 | 164.6 | 21.2 | 6.74 | 1.255 | 63.8 | 0.665 | 2.218 | 67.7 | 144.1 | --- | --- | 9.95 | 0.543 | 130.2 | 35.5 | 10.9 | 0.379 |
| 4-3190 | 4-3410 | 0.548 | 163.5 | 20.2 | 5.95 | 1.239 | 64.2 | 0.636 | 2.040 | 68.9 | 149.7 | --- | --- | 9.80 | 0.502 | 125.4 | 33.6 | 12.1 | 0.333 |
| 4-3190 | 4-3430 | 0.532 | 162.8 | 19.1 | 5.19 | 1.228 | 64.6 | 0.616 | 1.937 | 69.4 | 154.7 | --- | --- | 9.70 | 0.470 | 120.7 | 31.3 | 13.3 | 0.297 |
| 4-3190 | 4-3450 | 0.518 | 162.4 | 17.8 | 4.44 | 1.221 | 65.1 | 0.601 | 1.874 | 69.3 | 159.0 | --- | --- | 9.67 | 0.447 | 116.2 | 28.7 | 14.5 | 0.270 |
| 4-3190 | 4-3470 | 0.505 | 162.2 | 16.4 | 3.71 | 1.217 | 65.6 | 0.590 | 1.837 | 68.8 | 162.7 | --- | --- | 9.69 | 0.430 | 111.8 | 26.0 | 15.6 | 0.249 |
| 4-3190 | 4-3490 | 0.492 | 162.2 | 14.8 | 2.97 | 1.214 | 66.2 | 0.581 | 1.816 | 67.9 | 166.1 | --- | --- | 9.77 | 0.417 | 107.7 | 23.2 | 16.7 | 0.235 |
| 4-3190 | 4-3510 | 0.480 | 162.4 | 13.1 | 2.23 | 1.213 | 66.8 | 0.574 | 1.806 | 66.7 | 169.1 | --- | --- | 9.90 | 0.409 | 103.9 | 20.5 | 17.7 | 0.224 |
| 4-3190 | 4-3530 | 0.468 | 162.6 | 11.2 | 1.48 | 1.212 | 67.4 | 0.568 | 1.803 | 65.3 | 171.9 | --- | --- | 10.09 | 0.403 | 100.4 | 18.1 | 18.6 | 0.218 |
| 4-3190 | 4-3550 | 0.457 | 162.9 | 9.1 | 0.69 | 1.213 | 68.0 | 0.563 | 1.806 | 63.7 | 174.4 | --- | --- | 10.34 | 0.399 | 97.2 | 16.2 | 19.4 | 0.214 |
| 4-3190 | 4-3570 | 0.446 | 163.2 | 6.8 | -0.12 | 1.214 | 68.7 | 0.559 | 1.813 | 61.9 | 176.7 | --- | --- | 10.66 | 0.397 | 94.2 | 14.7 | 20.2 | 0.212 |
| 4-3190 | 4-3590 | 0.435 | 163.5 | 4.2 | -0.98 | 1.215 | 69.4 | 0.555 | 1.824 | 60.0 | 178.8 | --- | --- | 11.05 | 0.396 | 91.5 | 13.6 | 20.9 | 0.213 |
| 4-3190 | 4-3610 | 0.425 | 163.8 | 1.4 | -1.91 | 1.217 | 70.1 | 0.552 | 1.836 | 58.1 | 180.8 | --- | 2.850 | 11.52 | 0.397 | 89.0 | 13.1 | 21.7 | 0.215 |
| 4-3190 | 4-3630 | 0.417 | 163.9 | -1.8 | -2.90 | 1.218 | 70.8 | 0.550 | 1.850 | 56.0 | 182.7 | --- | 2.867 | 12.08 | 0.398 | 86.8 | 13.0 | 22.5 | 0.217 |
| 4-3190 | 4-3650 | 0.409 | 163.9 | -5.4 | -3.99 | 1.220 | 71.5 | 0.547 | 1.866 | 53.9 | 184.4 | --- | 2.887 | 12.77 | 0.399 | 84.7 | 13.3 | 23.4 | 0.221 |
| 4-3190 | 4-3670 | 0.404 | 163.6 | -9.5 | -5.21 | 1.222 | 72.2 | 0.546 | 1.882 | 51.8 | 186.1 | --- | 2.909 | 13.59 | 0.401 | 82.8 | 14.1 | 24.4 | 0.226 |
| 4-3190 | 4-3690 | 0.401 | 163.0 | -14.0 | -6.58 | 1.224 | 73.0 | 0.544 | 1.899 | 49.6 | 187.7 | --- | 2.932 | 14.58 | 0.404 | 81.0 | 15.2 | 25.6 | 0.233 |
| 4-3190 | 4-3710 | 0.402 | 162.0 | -19.0 | -8.16 | 1.226 | 73.7 | 0.543 | 1.916 | 47.4 | 189.3 | --- | 2.957 | 15.79 | 0.406 | 79.3 | 16.7 | 26.9 | 0.240 |
| 4-3190 | 4-3730 | 0.408 | 160.2 | -24.6 | -10.01 | 1.228 | 74.4 | 0.542 | 1.934 | 45.2 | 190.7 | --- | 2.983 | 17.28 | 0.409 | 77.8 | 18.5 | 28.5 | 0.249 |
| 4-3190 | 4-3750 | 0.421 | 157.5 | -30.5 | -12.22 | 1.230 | 75.2 | 0.542 | 1.952 | 43.0 | 192.2 | --- | 3.010 | 19.14 | 0.412 | 76.4 | 20.7 | 30.3 | 0.260 |
| 4-3190 | 4-3770 | 0.445 | 153.4 | -36.8 | -14.93 | 1.232 | 75.9 | 0.541 | 1.971 | 40.8 | 193.6 | --- | 3.038 | 21.51 | 0.415 | 75.0 | 23.4 | 32.4 | 0.275 |
| 4-3190 | 4-3790 | 0.484 | 147.3 | -42.8 | -18.36 | 1.234 | 76.6 | 0.542 | 1.989 | 38.7 | 194.9 | --- | 3.066 | 24.61 | 0.419 | 73.7 | 26.6 | 34.8 | 0.294 |
| 4-3190 | 4-3810 | 0.544 | 138.3 | -48.1 | -22.83 | 1.235 | 77.3 | 0.542 | 2.007 | 36.7 | 196.2 | --- | 3.095 | 28.76 | 0.422 | 72.5 | 30.5 | 37.3 | 0.320 |
| 4-3190 | 4-3830 | 0.637 | 125.8 | -51.4 | -28.90 | 1.237 | 77.9 | 0.543 | 2.025 | 34.8 | 197.5 | --- | 3.125 | 34.50 | 0.426 | 71.3 | 35.4 | 39.8 | 0.357 |
| 4-3190 | 4-3850 | 0.776 | 110.7 | -51.7 | -37.44 | 1.239 | 78.5 | 0.544 | 2.043 | 33.1 | 198.8 | --- | 3.155 | 42.72 | 0.430 | 70.1 | 41.7 | 41.8 | 0.412 |
| 4-3190 | 4-3870 | 0.983 | 95.7 | -47.7 | -49.75 | 1.241 | 78.8 | 0.546 | 2.061 | 31.9 | 200.0 | --- | 3.188 | 54.72 | 0.434 | 69.0 | 49.6 | 42.2 | 0.492 |
| 4-3190 | 4-3890 | 1.265 | 83.7 | -39.3 | -67.08 | 1.242 | 78.9 | 0.550 | 2.079 | 31.5 | 201.3 | --- | 3.222 | 71.73 | 0.438 | 67.7 | 58.5 | 39.6 | 0.603 |
| 4-3200 | 4-3340 | 0.758 | 170.0 | 20.1 | 9.87 | 1.332 | 56.1 | 0.840 | 4.055 | 75.6 | 130.7 | --- | --- | 12.57 | 0.714 | 144.6 | 35.9 | 8.7 | 0.594 |
| 4-3200 | 4-3360 | 0.711 | 167.9 | 19.6 | 8.70 | 1.286 | 56.8 | 0.765 | 2.735 | 78.9 | 138.5 | --- | --- | 11.94 | 0.622 | 139.8 | 34.9 | 9.6 | 0.499 |
| 4-3200 | 4-3380 | 0.677 | 166.4 | 18.9 | 7.65 | 1.256 | 57.5 | 0.717 | 2.264 | 81.0 | 145.2 | --- | --- | 11.44 | 0.553 | 134.8 | 33.4 | 10.5 | 0.427 |
| 4-3200 | 4-3400 | 0.651 | 165.4 | 18.0 | 6.68 | 1.236 | 58.2 | 0.684 | 2.036 | 82.2 | 150.8 | --- | --- | 11.05 | 0.503 | 129.7 | 31.5 | 11.5 | 0.372 |
| 4-3200 | 4-3420 | 0.629 | 164.9 | 16.9 | 5.78 | 1.223 | 58.8 | 0.662 | 1.910 | 82.6 | 155.6 | --- | --- | 10.76 | 0.465 | 124.5 | 29.3 | 12.5 | 0.330 |
| 4-3200 | 4-3440 | 0.610 | 164.6 | 15.7 | 4.93 | 1.215 | 59.5 | 0.644 | 1.838 | 82.4 | 159.8 | --- | --- | 10.54 | 0.437 | 119.4 | 26.8 | 13.5 | 0.298 |
| 4-3200 | 4-3460 | 0.594 | 164.6 | 14.5 | 4.12 | 1.210 | 60.2 | 0.631 | 1.795 | 81.7 | 163.5 | --- | --- | 10.39 | 0.417 | 114.5 | 24.1 | 14.5 | 0.274 |
| 4-3200 | 4-3480 | 0.578 | 164.7 | 13.1 | 3.33 | 1.207 | 60.9 | 0.621 | 1.772 | 80.7 | 166.7 | --- | --- | 10.31 | 0.403 | 109.8 | 21.4 | 15.4 | 0.256 |
| 4-3200 | 4-3500 | 0.563 | 165.0 | 11.7 | 2.56 | 1.205 | 61.6 | 0.612 | 1.761 | 79.3 | 169.6 | --- | --- | 10.29 | 0.394 | 105.5 | 18.9 | 16.2 | 0.244 |
| 4-3200 | 4-3520 | 0.549 | 165.3 | 10.1 | 1.80 | 1.205 | 62.4 | 0.604 | 1.759 | 77.7 | 172.2 | --- | --- | 10.32 | 0.388 | 101.6 | 16.7 | 16.8 | 0.235 |
| 4-3200 | 4-3540 | 0.535 | 165.7 | 8.4 | 1.04 | 1.205 | 63.1 | 0.598 | 1.763 | 76.0 | 174.5 | --- | --- | 10.40 | 0.384 | 98.0 | 14.8 | 17.4 | 0.229 |
| 4-3200 | 4-3560 | 0.522 | 166.1 | 6.6 | 0.27 | 1.206 | 63.9 | 0.592 | 1.771 | 74.1 | 176.7 | --- | --- | 10.54 | 0.383 | 94.7 | 13.4 | 18.0 | 0.226 |
| 4-3200 | 4-3580 | 0.510 | 166.6 | 4.6 | -0.51 | 1.208 | 64.7 | 0.587 | 1.783 | 72.1 | 178.8 | --- | --- | 10.74 | 0.382 | 91.8 | 12.4 | 18.5 | 0.225 |
| 4-3200 | 4-3600 | 0.498 | 167.0 | 2.4 | -1.32 | 1.210 | 65.5 | 0.582 | 1.796 | 70.0 | 180.7 | --- | 2.842 | 11.00 | 0.383 | 89.1 | 11.9 | 19.0 | 0.225 |
| 4-3200 | 4-3620 | 0.486 | 167.4 | 0.1 | -2.16 | 1.212 | 66.3 | 0.578 | 1.812 | 67.8 | 182.4 | --- | 2.860 | 11.33 | 0.385 | 86.6 | 11.8 | 19.5 | 0.226 |
| 4-3200 | 4-3640 | 0.475 | 167.7 | -2.5 | -3.06 | 1.214 | 67.1 | 0.575 | 1.829 | 65.6 | 184.1 | --- | 2.880 | 11.73 | 0.387 | 84.4 | 12.1 | 20.1 | 0.228 |
| 4-3200 | 4-3660 | 0.466 | 167.9 | -5.4 | -4.01 | 1.216 | 67.9 | 0.571 | 1.847 | 63.4 | 185.8 | --- | 2.902 | 12.21 | 0.390 | 82.4 | 12.8 | 20.7 | 0.231 |
| 4-3200 | 4-3680 | 0.457 | 167.9 | -8.5 | -5.03 | 1.218 | 68.7 | 0.569 | 1.865 | 61.1 | 187.3 | --- | 2.926 | 12.79 | 0.393 | 80.6 | 13.8 | 21.5 | 0.235 |
| 4-3200 | 4-3700 | 0.450 | 167.8 | -11.9 | -6.15 | 1.220 | 69.5 | 0.566 | 1.884 | 58.8 | 188.8 | --- | 2.951 | 13.48 | 0.397 | 78.9 | 15.1 | 22.3 | 0.239 |
| 4-3200 | 4-3720 | 0.445 | 167.4 | -15.8 | -7.40 | 1.223 | 70.3 | 0.564 | 1.904 | 56.5 | 190.2 | --- | 2.977 | 14.31 | 0.400 | 77.3 | 16.7 | 23.3 | 0.244 |
| 4-3200 | 4-3740 | 0.443 | 166.6 | -20.0 | -8.80 | 1.225 | 71.1 | 0.562 | 1.923 | 54.1 | 191.6 | --- | 3.004 | 15.31 | 0.404 | 75.9 | 18.5 | 24.5 | 0.250 |
| 4-3200 | 4-3760 | 0.445 | 165.4 | -24.5 | -10.39 | 1.227 | 71.9 | 0.560 | 1.943 | 51.8 | 192.9 | --- | 3.031 | 16.52 | 0.408 | 74.6 | 20.6 | 25.8 | 0.257 |
| 4-3200 | 4-3780 | 0.453 | 163.4 | -29.5 | -12.26 | 1.229 | 72.7 | 0.559 | 1.963 | 49.5 | 194.2 | --- | 3.059 | 18.01 | 0.412 | 73.3 | 23.0 | 27.4 | 0.265 |
| 4-3200 | 4-3800 | 0.467 | 160.5 | -34.7 | -14.47 | 1.231 | 73.5 | 0.558 | 1.982 | 47.2 | 195.5 | --- | 3.088 | 19.85 | 0.416 | 72.1 | 25.7 | 29.2 | 0.276 |
| 4-3200 | 4-3820 | 0.491 | 156.2 | -40.0 | -17.15 | 1.233 | 74.2 | 0.557 | 2.002 | 45.0 | 196.7 | --- | 3.117 | 22.18 | 0.420 | 71.0 | 28.8 | 31.2 | 0.289 |
| 4-3200 | 4-3840 | 0.529 | 149.9 | -45.0 | -20.50 | 1.235 | 75.0 | 0.557 | 2.021 | 42.8 | 198.0 | --- | 3.146 | 25.18 | 0.424 | 69.9 | 32.3 | 33.6 | 0.307 |
| 4-3200 | 4-3860 | 0.587 | 141.1 | -49.1 | -24.82 | 1.237 | 75.7 | 0.557 | 2.040 | 40.7 | 199.2 | --- | 3.176 | 29.15 | 0.428 | 68.9 | 36.5 | 36.1 | 0.331 |
| 4-3200 | 4-3880 | 0.673 | 129.6 | -51.6 | -30.55 | 1.239 | 76.4 | 0.557 | 2.059 | 38.7 | 200.4 | --- | 3.206 | 34.54 | 0.433 | 67.9 | 41.6 | 38.6 | 0.365 |
| 4-3200 | 4-3900 | 0.800 | 116.1 | -51.3 | -38.44 | 1.241 | 76.9 | 0.558 | 2.078 | 37.0 | 201.5 | --- | 3.237 | 42.09 | 0.437 | 67.0 | 47.9 | 40.6 | 0.414 |
| 4-3210 | 4-3350 | 0.858 | 170.0 | 17.6 | 10.61 | 1.302 | 49.1 | 0.833 | 3.120 | 92.7 | 140.2 | --- | --- | 14.42 | 0.658 | 146.0 | 32.6 | 9.1 | 0.580 |
| 4-3210 | 4-3370 | 0.808 | 168.7 | 16.8 | 9.15 | 1.261 | 50.3 | 0.779 | 2.358 | 94.9 | 146.9 | --- | --- | 13.47 | 0.571 | 140.8 | 31.2 | 9.9 | 0.491 |
| 4-3210 | 4-3390 | 0.770 | 168.0 | 15.9 | 7.87 | 1.235 | 51.3 | 0.743 | 2.045 | 95.9 | 152.4 | --- | --- | 12.73 | 0.507 | 135.2 | 29.3 | 10.7 | 0.424 |
| 4-3210 | 4-3410 | 0.740 | 167.6 | 14.9 | 6.73 | 1.219 | 52.3 | 0.717 | 1.886 | 96.1 | 157.0 | --- | --- | 12.13 | 0.460 | 129.5 | 27.2 | 11.5 | 0.373 |
| 4-3210 | 4-3430 | 0.715 | 167.4 | 13.8 | 5.70 | 1.208 | 53.3 | 0.698 | 1.799 | 95.7 | 161.0 | --- | --- | 11.67 | 0.426 | 123.7 | 24.7 | 12.4 | 0.335 |
| 4-3210 | 4-3450 | 0.693 | 167.5 | 12.6 | 4.74 | 1.201 | 54.2 | 0.682 | 1.749 | 94.8 | 164.4 | --- | --- | 11.30 | 0.402 | 118.1 | 22.2 | 13.1 | 0.306 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3210 | 4-3470 | 0.674 | 167.8 | 11.4 | 3.85 | 1.198 | 55.1 | 0.669 | 1.723 | 93.6 | 167.4 | --- | --- | 11.02 | 0.386 | 112.8 | 19.7 | 13.8 | 0.284 |
| 4-3210 | 4-3490 | 0.655 | 168.1 | 10.0 | 3.01 | 1.196 | 56.0 | 0.658 | 1.711 | 92.0 | 170.1 | --- | --- | 10.82 | 0.375 | 107.8 | 17.3 | 14.4 | 0.268 |
| 4-3210 | 4-3510 | 0.638 | 168.6 | 8.7 | 2.20 | 1.196 | 56.9 | 0.649 | 1.709 | 90.3 | 172.6 | --- | --- | 10.68 | 0.368 | 103.2 | 15.2 | 15.0 | 0.257 |
| 4-3210 | 4-3530 | 0.622 | 169.1 | 7.2 | 1.42 | 1.196 | 57.9 | 0.640 | 1.713 | 88.3 | 174.8 | --- | --- | 10.60 | 0.365 | 99.1 | 13.4 | 15.4 | 0.250 |
| 4-3210 | 4-3550 | 0.606 | 169.6 | 5.7 | 0.65 | 1.198 | 58.8 | 0.633 | 1.723 | 86.3 | 176.9 | --- | --- | 10.58 | 0.364 | 95.4 | 12.1 | 15.8 | 0.245 |
| 4-3210 | 4-3570 | 0.591 | 170.1 | 4.0 | -0.11 | 1.200 | 59.7 | 0.626 | 1.735 | 84.2 | 178.8 | --- | --- | 10.62 | 0.365 | 92.0 | 11.2 | 16.1 | 0.242 |
| 4-3210 | 4-3590 | 0.577 | 170.7 | 2.3 | -0.87 | 1.202 | 60.6 | 0.619 | 1.751 | 81.9 | 180.6 | --- | 2.835 | 10.70 | 0.366 | 89.1 | 10.7 | 16.5 | 0.240 |
| 4-3210 | 4-3610 | 0.563 | 171.2 | 0.4 | -1.64 | 1.204 | 61.5 | 0.614 | 1.768 | 79.6 | 182.3 | --- | 2.853 | 10.85 | 0.369 | 86.4 | 10.7 | 16.8 | 0.240 |
| 4-3210 | 4-3630 | 0.550 | 171.7 | -1.5 | -2.43 | 1.206 | 62.4 | 0.608 | 1.786 | 77.3 | 183.9 | --- | 2.873 | 11.04 | 0.373 | 84.0 | 11.0 | 17.2 | 0.240 |
| 4-3210 | 4-3650 | 0.537 | 172.1 | -3.7 | -3.24 | 1.209 | 63.2 | 0.604 | 1.806 | 75.0 | 185.4 | --- | 2.896 | 11.30 | 0.376 | 81.9 | 11.6 | 17.6 | 0.241 |
| 4-3210 | 4-3670 | 0.525 | 172.5 | -6.0 | -4.09 | 1.211 | 64.1 | 0.599 | 1.826 | 72.6 | 186.9 | --- | 2.920 | 11.62 | 0.380 | 79.9 | 12.6 | 18.1 | 0.243 |
| 4-3210 | 4-3690 | 0.514 | 172.7 | -8.5 | -4.98 | 1.214 | 65.0 | 0.595 | 1.847 | 70.2 | 188.3 | --- | 2.946 | 12.02 | 0.385 | 78.2 | 13.8 | 18.6 | 0.245 |
| 4-3210 | 4-3710 | 0.504 | 172.9 | -11.3 | -5.93 | 1.216 | 65.9 | 0.591 | 1.868 | 67.8 | 189.7 | --- | 2.972 | 12.49 | 0.389 | 76.6 | 15.3 | 19.3 | 0.248 |
| 4-3210 | 4-3730 | 0.496 | 172.9 | -14.2 | -6.95 | 1.219 | 66.8 | 0.588 | 1.889 | 65.3 | 191.0 | --- | 2.999 | 13.06 | 0.394 | 75.1 | 17.0 | 20.0 | 0.251 |
| 4-3210 | 4-3750 | 0.489 | 172.7 | -17.5 | -8.06 | 1.221 | 67.6 | 0.585 | 1.910 | 62.9 | 192.3 | --- | 3.027 | 13.74 | 0.398 | 73.8 | 18.9 | 20.9 | 0.255 |
| 4-3210 | 4-3770 | 0.485 | 172.2 | -21.0 | -9.29 | 1.224 | 68.5 | 0.582 | 1.931 | 60.5 | 193.6 | --- | 3.055 | 14.55 | 0.403 | 72.5 | 21.0 | 21.9 | 0.259 |
| 4-3210 | 4-3790 | 0.483 | 171.4 | -24.8 | -10.67 | 1.226 | 69.4 | 0.580 | 1.952 | 58.1 | 194.8 | --- | 3.084 | 15.53 | 0.407 | 71.4 | 23.3 | 23.0 | 0.265 |
| 4-3210 | 4-3810 | 0.485 | 170.0 | -29.0 | -12.24 | 1.228 | 70.2 | 0.577 | 1.973 | 55.7 | 196.0 | --- | 3.112 | 16.70 | 0.412 | 70.3 | 25.8 | 24.3 | 0.271 |
| 4-3210 | 4-3830 | 0.493 | 168.0 | -33.4 | -14.06 | 1.230 | 71.0 | 0.575 | 1.994 | 53.3 | 197.2 | --- | 3.141 | 18.14 | 0.417 | 69.3 | 28.5 | 25.9 | 0.278 |
| 4-3210 | 4-3850 | 0.506 | 165.0 | -38.0 | -16.21 | 1.232 | 71.9 | 0.574 | 2.014 | 51.0 | 198.4 | --- | 3.170 | 19.91 | 0.422 | 68.3 | 31.5 | 27.6 | 0.288 |
| 4-3210 | 4-3870 | 0.529 | 160.6 | -42.5 | -18.80 | 1.234 | 72.7 | 0.572 | 2.035 | 48.7 | 199.5 | --- | 3.199 | 22.14 | 0.426 | 67.4 | 34.8 | 29.7 | 0.300 |
| 4-3210 | 4-3890 | 0.565 | 154.5 | -46.8 | -22.01 | 1.236 | 73.5 | 0.571 | 2.055 | 46.4 | 200.6 | --- | 3.229 | 24.99 | 0.431 | 66.6 | 38.5 | 32.0 | 0.316 |
| 4-3210 | 4-3910 | 0.618 | 146.0 | -50.3 | -26.09 | 1.238 | 74.2 | 0.571 | 2.074 | 44.2 | 201.8 | --- | 3.259 | 28.71 | 0.436 | 65.7 | 42.8 | 34.5 | 0.337 |
| 4-3220 | 4-3360 | 0.964 | 171.4 | 15.0 | 11.73 | 1.274 | 41.9 | 0.851 | 2.590 | 109.3 | 149.2 | --- | --- | 16.56 | 0.605 | 148.3 | 29.0 | 9.0 | 0.578 |
| 4-3220 | 4-3380 | 0.909 | 170.8 | 14.0 | 9.86 | 1.238 | 43.5 | 0.811 | 2.097 | 110.0 | 154.4 | --- | --- | 15.17 | 0.521 | 142.5 | 27.2 | 9.7 | 0.493 |
| 4-3220 | 4-3400 | 0.867 | 170.6 | 13.0 | 8.28 | 1.215 | 44.9 | 0.782 | 1.878 | 109.9 | 158.7 | --- | --- | 14.09 | 0.460 | 136.3 | 25.2 | 10.4 | 0.430 |
| 4-3220 | 4-3420 | 0.833 | 170.6 | 11.9 | 6.91 | 1.201 | 46.3 | 0.760 | 1.765 | 109.2 | 162.4 | --- | --- | 13.23 | 0.416 | 129.8 | 22.9 | 11.0 | 0.382 |
| 4-3220 | 4-3440 | 0.804 | 170.8 | 10.8 | 5.71 | 1.193 | 47.5 | 0.742 | 1.704 | 108.0 | 165.5 | --- | --- | 12.54 | 0.385 | 123.3 | 20.5 | 11.6 | 0.347 |
| 4-3220 | 4-3460 | 0.779 | 171.2 | 9.6 | 4.62 | 1.188 | 48.7 | 0.726 | 1.672 | 106.5 | 168.3 | --- | --- | 11.99 | 0.365 | 117.1 | 18.1 | 12.2 | 0.320 |
| 4-3220 | 4-3480 | 0.757 | 171.6 | 8.4 | 3.64 | 1.186 | 49.9 | 0.713 | 1.657 | 104.7 | 170.8 | --- | --- | 11.56 | 0.352 | 111.1 | 15.8 | 12.6 | 0.300 |
| 4-3220 | 4-3500 | 0.736 | 172.2 | 7.1 | 2.72 | 1.185 | 51.0 | 0.701 | 1.654 | 102.8 | 173.0 | --- | --- | 11.22 | 0.344 | 105.7 | 13.9 | 13.0 | 0.286 |
| 4-3220 | 4-3520 | 0.716 | 172.8 | 5.8 | 1.87 | 1.186 | 52.1 | 0.691 | 1.659 | 100.7 | 175.1 | --- | --- | 10.96 | 0.341 | 100.7 | 12.2 | 13.4 | 0.276 |
| 4-3220 | 4-3540 | 0.698 | 173.4 | 4.4 | 1.05 | 1.188 | 53.2 | 0.681 | 1.669 | 98.4 | 177.0 | --- | --- | 10.77 | 0.340 | 96.4 | 11.0 | 13.6 | 0.268 |
| 4-3220 | 4-3560 | 0.680 | 174.0 | 3.0 | 0.27 | 1.190 | 54.3 | 0.672 | 1.683 | 96.2 | 178.8 | --- | --- | 10.64 | 0.342 | 92.5 | 10.2 | 13.9 | 0.263 |
| 4-3220 | 4-3580 | 0.663 | 174.7 | 1.5 | -0.49 | 1.192 | 55.3 | 0.664 | 1.700 | 93.8 | 180.5 | --- | 2.828 | 10.57 | 0.345 | 89.1 | 9.7 | 14.1 | 0.260 |
| 4-3220 | 4-3600 | 0.647 | 175.3 | -0.0 | -1.23 | 1.195 | 56.3 | 0.656 | 1.719 | 91.4 | 182.1 | --- | 2.846 | 10.55 | 0.349 | 86.1 | 9.7 | 14.3 | 0.258 |
| 4-3220 | 4-3620 | 0.631 | 175.9 | -1.7 | -1.97 | 1.198 | 57.3 | 0.649 | 1.739 | 89.0 | 183.6 | --- | 2.867 | 10.58 | 0.354 | 83.4 | 10.0 | 14.5 | 0.257 |
| 4-3220 | 4-3640 | 0.616 | 176.5 | -3.4 | -2.71 | 1.201 | 58.3 | 0.642 | 1.760 | 86.5 | 185.0 | --- | 2.890 | 10.67 | 0.359 | 81.1 | 10.7 | 14.8 | 0.257 |
| 4-3220 | 4-3660 | 0.602 | 177.0 | -5.2 | -3.46 | 1.203 | 59.3 | 0.636 | 1.782 | 84.0 | 186.4 | --- | 2.914 | 10.81 | 0.364 | 79.0 | 11.6 | 15.1 | 0.257 |
| 4-3220 | 4-3680 | 0.588 | 177.5 | -7.2 | -4.23 | 1.206 | 60.3 | 0.630 | 1.804 | 81.5 | 187.8 | --- | 2.941 | 11.00 | 0.369 | 77.2 | 12.7 | 15.5 | 0.258 |
| 4-3220 | 4-3700 | 0.575 | 178.0 | -9.2 | -5.02 | 1.209 | 61.3 | 0.625 | 1.827 | 79.0 | 189.1 | --- | 2.968 | 11.24 | 0.375 | 75.5 | 14.2 | 15.9 | 0.259 |
| 4-3220 | 4-3720 | 0.563 | 178.3 | -11.5 | -5.84 | 1.212 | 62.2 | 0.620 | 1.849 | 76.5 | 190.4 | --- | 2.995 | 11.55 | 0.381 | 74.0 | 15.8 | 16.3 | 0.260 |
| 4-3220 | 4-3740 | 0.552 | 178.6 | -13.9 | -6.70 | 1.215 | 63.2 | 0.615 | 1.872 | 74.0 | 191.6 | --- | 3.023 | 11.93 | 0.386 | 72.7 | 17.6 | 16.9 | 0.262 |
| 4-3220 | 4-3760 | 0.541 | 178.7 | -16.4 | -7.62 | 1.217 | 64.1 | 0.611 | 1.895 | 71.5 | 192.8 | --- | 3.052 | 12.38 | 0.392 | 71.4 | 19.5 | 17.5 | 0.264 |
| 4-3220 | 4-3780 | 0.533 | 178.7 | -19.2 | -8.61 | 1.220 | 65.0 | 0.607 | 1.917 | 69.0 | 194.0 | --- | 3.081 | 12.92 | 0.397 | 70.3 | 21.7 | 18.3 | 0.267 |
| 4-3220 | 4-3800 | 0.526 | 178.4 | -22.2 | -9.69 | 1.222 | 66.0 | 0.603 | 1.940 | 66.5 | 195.2 | --- | 3.110 | 13.57 | 0.402 | 69.3 | 24.0 | 19.1 | 0.270 |
| 4-3220 | 4-3820 | 0.521 | 177.9 | -25.5 | -10.87 | 1.225 | 66.9 | 0.600 | 1.962 | 64.0 | 196.4 | --- | 3.139 | 14.34 | 0.408 | 68.3 | 26.4 | 20.1 | 0.273 |
| 4-3220 | 4-3840 | 0.519 | 177.1 | -29.0 | -12.20 | 1.227 | 67.8 | 0.597 | 1.984 | 61.6 | 197.5 | --- | 3.168 | 15.26 | 0.413 | 67.4 | 29.0 | 21.2 | 0.277 |
| 4-3220 | 4-3860 | 0.521 | 175.7 | -32.7 | -13.70 | 1.229 | 68.7 | 0.594 | 2.006 | 59.1 | 198.6 | --- | 3.197 | 16.37 | 0.418 | 66.5 | 31.7 | 22.5 | 0.283 |
| 4-3220 | 4-3880 | 0.527 | 173.7 | -36.7 | -15.44 | 1.231 | 69.5 | 0.591 | 2.027 | 56.7 | 199.7 | --- | 3.226 | 17.73 | 0.424 | 65.7 | 34.6 | 24.0 | 0.289 |
| 4-3220 | 4-3900 | 0.539 | 170.8 | -40.8 | -17.48 | 1.233 | 70.4 | 0.589 | 2.048 | 54.3 | 200.9 | --- | 3.255 | 19.40 | 0.429 | 65.0 | 37.8 | 25.8 | 0.297 |
| 4-3220 | 4-3920 | 0.560 | 166.6 | -44.8 | -19.93 | 1.235 | 71.2 | 0.587 | 2.069 | 51.9 | 201.9 | --- | 3.284 | 21.48 | 0.434 | 64.3 | 41.2 | 27.7 | 0.308 |
| 4-3230 | 4-3370 | 1.075 | 173.7 | 12.3 | 13.49 | 1.250 | 34.4 | 0.883 | 2.264 | 124.6 | 157.1 | --- | --- | 19.26 | 0.555 | 151.5 | 25.4 | 8.5 | 0.588 |
| 4-3230 | 4-3390 | 1.014 | 173.6 | 11.3 | 10.98 | 1.217 | 36.5 | 0.853 | 1.912 | 124.0 | 160.8 | --- | --- | 17.19 | 0.472 | 145.2 | 23.5 | 9.1 | 0.506 |
| 4-3230 | 4-3410 | 0.967 | 173.8 | 10.1 | 8.95 | 1.197 | 38.4 | 0.828 | 1.750 | 122.8 | 164.0 | --- | --- | 15.61 | 0.413 | 138.2 | 21.3 | 9.6 | 0.445 |
| 4-3230 | 4-3430 | 0.929 | 174.2 | 9.0 | 7.26 | 1.185 | 40.1 | 0.808 | 1.668 | 121.3 | 166.8 | --- | --- | 14.38 | 0.371 | 130.9 | 19.1 | 10.0 | 0.400 |
| 4-3230 | 4-3450 | 0.896 | 174.7 | 7.8 | 5.83 | 1.178 | 41.6 | 0.790 | 1.625 | 119.4 | 169.2 | --- | --- | 13.41 | 0.343 | 123.5 | 16.8 | 10.5 | 0.366 |
| 4-3230 | 4-3470 | 0.867 | 175.3 | 6.6 | 4.57 | 1.175 | 43.1 | 0.774 | 1.605 | 117.4 | 171.4 | --- | --- | 12.64 | 0.326 | 116.3 | 14.7 | 10.8 | 0.341 |
| 4-3230 | 4-3490 | 0.842 | 176.0 | 5.4 | 3.46 | 1.174 | 44.5 | 0.760 | 1.600 | 115.2 | 173.4 | --- | --- | 12.02 | 0.316 | 109.5 | 12.9 | 11.1 | 0.322 |
| 4-3230 | 4-3510 | 0.818 | 176.7 | 4.2 | 2.46 | 1.175 | 45.9 | 0.747 | 1.603 | 112.9 | 175.3 | --- | --- | 11.52 | 0.312 | 103.5 | 11.4 | 11.3 | 0.308 |
| 4-3230 | 4-3530 | 0.796 | 177.4 | 3.0 | 1.54 | 1.177 | 47.2 | 0.735 | 1.614 | 110.5 | 177.1 | --- | --- | 11.13 | 0.312 | 98.1 | 10.2 | 11.5 | 0.298 |
| 4-3230 | 4-3550 | 0.775 | 178.1 | 1.7 | 0.69 | 1.179 | 48.4 | 0.724 | 1.628 | 108.0 | 178.7 | --- | --- | 10.82 | 0.314 | 93.4 | 9.4 | 11.7 | 0.290 |
| 4-3230 | 4-3570 | 0.756 | 178.8 | 0.3 | -0.12 | 1.182 | 49.6 | 0.714 | 1.646 | 105.5 | 180.3 | --- | 2.820 | 10.58 | 0.319 | 89.3 | 9.0 | 11.8 | 0.285 |
| 4-3230 | 4-3590 | 0.737 | 179.6 | -1.0 | -0.88 | 1.185 | 50.8 | 0.704 | 1.666 | 103.0 | 181.8 | --- | 2.838 | 10.40 | 0.324 | 85.8 | 9.0 | 12.0 | 0.281 |
| 4-3230 | 4-3610 | 0.719 | 180.3 | -2.4 | -1.62 | 1.188 | 52.0 | 0.695 | 1.687 | 100.5 | 183.2 | --- | 2.859 | 10.28 | 0.330 | 82.8 | 9.3 | 12.1 | 0.279 |
| 4-3230 | 4-3630 | 0.701 | 181.0 | -3.9 | -2.33 | 1.191 | 53.1 | 0.686 | 1.710 | 97.9 | 184.6 | --- | 2.883 | 10.22 | 0.337 | 80.2 | 9.9 | 12.3 | 0.277 |
| 4-3230 | 4-3650 | 0.685 | 181.7 | -5.4 | -3.04 | 1.195 | 54.2 | 0.678 | 1.733 | 95.3 | 185.9 | --- | 2.908 | 10.20 | 0.344 | 77.9 | 10.8 | 12.5 | 0.276 |
| 4-3230 | 4-3670 | 0.668 | 182.3 | -7.0 | -3.73 | 1.198 | 55.3 | 0.671 | 1.757 | 92.7 | 187.2 | --- | 2.935 | 10.23 | 0.351 | 75.9 | 12.0 | 12.7 | 0.275 |
| 4-3230 | 4-3690 | 0.653 | 182.9 | -8.7 | -4.43 | 1.201 | 56.4 | 0.664 | 1.781 | 90.1 | 188.4 | --- | 2.963 | 10.31 | 0.358 | 74.2 | 13.3 | 13.0 | 0.275 |
| 4-3230 | 4-3710 | 0.638 | 183.5 | -10.4 | -5.14 | 1.204 | 57.4 | 0.657 | 1.805 | 87.6 | 189.7 | --- | 2.991 | 10.43 | 0.364 | 72.6 | 14.9 | 13.3 | 0.275 |
| 4-3230 | 4-3730 | 0.624 | 184.0 | -12.3 | -5.86 | 1.207 | 58.5 | 0.651 | 1.830 | 85.0 | 190.9 | --- | 3.020 | 10.61 | 0.371 | 71.2 | 16.6 | 13.6 | 0.275 |
| 4-3230 | 4-3750 | 0.610 | 184.4 | -14.3 | -6.61 | 1.210 | 59.5 | 0.645 | 1.854 | 82.4 | 192.0 | --- | 3.049 | 10.84 | 0.378 | 70.0 | 18.5 | 14.0 | 0.276 |
| 4-3230 | 4-3770 | 0.598 | 184.8 | -16.4 | -7.39 | 1.213 | 60.5 | 0.639 | 1.878 | 79.8 | 193.2 | --- | 3.079 | 11.12 | 0.384 | 68.9 | 20.6 | 14.5 | 0.276 |
| 4-3230 | 4-3790 | 0.586 | 185.1 | -18.6 | -8.20 | 1.216 | 61.5 | 0.634 | 1.902 | 77.3 | 194.3 | --- | 3.108 | 11.47 | 0.391 | 67.8 | 22.7 | 15.0 | 0.277 |
| 4-3230 | 4-3810 | 0.576 | 185.2 | -21.1 | -9.07 | 1.218 | 62.5 | 0.629 | 1.926 | 74.7 | 195.5 | --- | 3.137 | 11.89 | 0.397 | 66.9 | 25.0 | 15.6 | 0.279 |
| 4-3230 | 4-3830 | 0.567 | 185.2 | -23.6 | -10.00 | 1.221 | 63.5 | 0.625 | 1.949 | 72.2 | 196.6 | --- | 3.167 | 12.39 | 0.403 | 66.1 | 27.4 | 16.3 | 0.281 |
| 4-3230 | 4-3850 | 0.559 | 185.0 | -26.4 | -11.01 | 1.223 | 64.4 | 0.620 | 1.972 | 69.7 | 197.7 | --- | 3.196 | 12.99 | 0.409 | 65.3 | 29.9 | 17.2 | 0.283 |
| 4-3230 | 4-3870 | 0.554 | 184.6 | -29.4 | -12.13 | 1.226 | 65.4 | 0.616 | 1.995 | 67.2 | 198.8 | --- | 3.225 | 13.70 | 0.415 | 64.5 | 32.6 | 18.1 | 0.285 |
| 4-3230 | 4-3890 | 0.551 | 183.8 | -32.6 | -13.37 | 1.228 | 66.3 | 0.613 | 2.018 | 64.6 | 199.9 | --- | 3.254 | 14.56 | 0.421 | 63.8 | 35.3 | 19.2 | 0.289 |
| 4-3230 | 4-3910 | 0.551 | 182.5 | -36.0 | -14.78 | 1.230 | 67.2 | 0.609 | 2.040 | 62.2 | 200.9 | --- | 3.283 | 15.59 | 0.426 | 63.2 | 38.2 | 20.4 | 0.293 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3230 | 4-3930 | 0.556 | 180.6 | -39.6 | -16.40 | 1.232 | 68.2 | 0.606 | 2.062 | 59.7 | 202.0 | --- | 3.312 | 16.84 | 0.432 | 62.6 | 41.2 | 21.9 | 0.298 |
| 4-3240 | 4-3380 | 1.187 | 176.7 | 9.7 | 16.42 | 1.230 | 26.9 | 0.922 | 2.057 | 138.5 | 163.6 | --- | --- | 23.04 | 0.512 | 156.0 | 22.3 | 7.7 | 0.609 |
| 4-3240 | 4-3400 | 1.120 | 177.1 | 8.5 | 12.78 | 1.199 | 29.4 | 0.898 | 1.782 | 136.8 | 166.1 | --- | --- | 19.80 | 0.427 | 149.2 | 20.3 | 8.1 | 0.528 |
| 4-3240 | 4-3420 | 1.068 | 177.6 | 7.3 | 10.03 | 1.181 | 31.6 | 0.876 | 1.654 | 134.7 | 168.3 | --- | --- | 17.45 | 0.368 | 141.4 | 18.2 | 8.4 | 0.469 |
| 4-3240 | 4-3440 | 1.025 | 178.3 | 6.1 | 7.86 | 1.170 | 33.7 | 0.857 | 1.591 | 132.4 | 170.3 | --- | --- | 15.69 | 0.327 | 133.0 | 16.1 | 8.8 | 0.424 |
| 4-3240 | 4-3460 | 0.989 | 179.0 | 5.0 | 6.09 | 1.165 | 35.6 | 0.840 | 1.560 | 130.0 | 172.1 | --- | --- | 14.33 | 0.300 | 124.3 | 14.1 | 9.0 | 0.391 |
| 4-3240 | 4-3480 | 0.957 | 179.8 | 3.8 | 4.60 | 1.163 | 37.3 | 0.824 | 1.549 | 127.6 | 173.9 | --- | --- | 13.26 | 0.285 | 115.9 | 12.4 | 9.2 | 0.367 |
| 4-3240 | 4-3500 | 0.928 | 180.7 | 2.6 | 3.32 | 1.163 | 39.0 | 0.809 | 1.550 | 125.0 | 175.5 | --- | --- | 12.41 | 0.279 | 108.1 | 10.9 | 9.4 | 0.348 |
| 4-3240 | 4-3520 | 0.902 | 181.5 | 1.4 | 2.20 | 1.165 | 40.6 | 0.794 | 1.558 | 122.4 | 177.1 | --- | --- | 11.73 | 0.278 | 101.2 | 9.8 | 9.5 | 0.334 |
| 4-3240 | 4-3540 | 0.877 | 182.3 | 0.2 | 1.21 | 1.167 | 42.1 | 0.781 | 1.572 | 119.8 | 178.5 | --- | --- | 11.18 | 0.281 | 95.2 | 9.1 | 9.6 | 0.324 |
| 4-3240 | 4-3560 | 0.854 | 183.1 | -1.1 | 0.30 | 1.170 | 43.5 | 0.769 | 1.590 | 117.1 | 180.0 | --- | --- | 10.74 | 0.287 | 90.1 | 8.7 | 9.7 | 0.316 |
| 4-3240 | 4-3580 | 0.833 | 184.0 | -2.3 | -0.53 | 1.174 | 44.9 | 0.757 | 1.611 | 114.5 | 181.3 | --- | 2.830 | 10.39 | 0.294 | 85.8 | 8.6 | 9.8 | 0.310 |
| 4-3240 | 4-3600 | 0.812 | 184.8 | -3.6 | -1.31 | 1.177 | 46.2 | 0.746 | 1.633 | 111.8 | 182.7 | --- | 2.851 | 10.11 | 0.302 | 82.2 | 8.9 | 9.9 | 0.305 |
| 4-3240 | 4-3620 | 0.792 | 185.6 | -4.9 | -2.04 | 1.181 | 47.5 | 0.736 | 1.657 | 109.1 | 184.0 | --- | 2.875 | 9.89 | 0.311 | 79.2 | 9.5 | 10.0 | 0.302 |
| 4-3240 | 4-3640 | 0.773 | 186.4 | -6.2 | -2.74 | 1.185 | 48.8 | 0.726 | 1.681 | 106.4 | 185.2 | --- | 2.901 | 9.73 | 0.319 | 76.6 | 10.4 | 10.1 | 0.299 |
| 4-3240 | 4-3660 | 0.755 | 187.1 | -7.6 | -3.41 | 1.188 | 50.0 | 0.717 | 1.706 | 103.8 | 186.4 | --- | 2.929 | 9.62 | 0.328 | 74.4 | 11.5 | 10.3 | 0.297 |
| 4-3240 | 4-3680 | 0.737 | 187.8 | -9.0 | -4.07 | 1.192 | 51.2 | 0.708 | 1.732 | 101.1 | 187.6 | --- | 2.957 | 9.56 | 0.337 | 72.5 | 12.8 | 10.4 | 0.295 |
| 4-3240 | 4-3700 | 0.720 | 188.5 | -10.4 | -4.71 | 1.196 | 52.4 | 0.699 | 1.758 | 98.4 | 188.8 | --- | 2.987 | 9.55 | 0.345 | 70.8 | 14.3 | 10.6 | 0.294 |
| 4-3240 | 4-3720 | 0.703 | 189.2 | -12.0 | -5.35 | 1.199 | 53.5 | 0.691 | 1.783 | 95.8 | 190.0 | --- | 3.016 | 9.57 | 0.353 | 69.4 | 16.0 | 10.8 | 0.293 |
| 4-3240 | 4-3740 | 0.687 | 189.8 | -13.6 | -5.99 | 1.202 | 54.6 | 0.684 | 1.809 | 93.2 | 191.1 | --- | 3.046 | 9.64 | 0.361 | 68.2 | 17.8 | 11.1 | 0.292 |
| 4-3240 | 4-3760 | 0.672 | 190.4 | -15.2 | -6.64 | 1.205 | 55.7 | 0.677 | 1.835 | 90.5 | 192.2 | --- | 3.076 | 9.75 | 0.369 | 67.0 | 19.8 | 11.4 | 0.291 |
| 4-3240 | 4-3780 | 0.657 | 191.0 | -17.0 | -7.31 | 1.209 | 56.8 | 0.670 | 1.860 | 87.9 | 193.3 | --- | 3.106 | 9.91 | 0.376 | 66.0 | 21.9 | 11.7 | 0.291 |
| 4-3240 | 4-3800 | 0.643 | 191.5 | -18.9 | -7.99 | 1.212 | 57.9 | 0.664 | 1.885 | 85.3 | 194.4 | --- | 3.136 | 10.11 | 0.383 | 65.1 | 24.1 | 12.1 | 0.291 |
| 4-3240 | 4-3820 | 0.630 | 191.9 | -20.8 | -8.70 | 1.214 | 58.9 | 0.658 | 1.910 | 82.7 | 195.5 | --- | 3.166 | 10.36 | 0.390 | 64.3 | 26.4 | 12.6 | 0.291 |
| 4-3240 | 4-3840 | 0.618 | 192.2 | -22.9 | -9.45 | 1.217 | 60.0 | 0.652 | 1.935 | 80.1 | 196.6 | --- | 3.196 | 10.68 | 0.397 | 63.6 | 28.8 | 13.1 | 0.292 |
| 4-3240 | 4-3860 | 0.607 | 192.4 | -25.2 | -10.25 | 1.220 | 61.0 | 0.646 | 1.959 | 77.6 | 197.7 | --- | 3.226 | 11.05 | 0.404 | 62.9 | 31.3 | 13.6 | 0.292 |
| 4-3240 | 4-3880 | 0.597 | 192.5 | -27.5 | -11.10 | 1.222 | 62.0 | 0.641 | 1.983 | 75.0 | 198.7 | --- | 3.255 | 11.51 | 0.411 | 62.3 | 33.8 | 14.3 | 0.293 |
| 4-3240 | 4-3900 | 0.589 | 192.4 | -30.1 | -12.03 | 1.225 | 63.0 | 0.637 | 2.007 | 72.4 | 199.8 | --- | 3.284 | 12.05 | 0.417 | 61.7 | 36.5 | 15.1 | 0.295 |
| 4-3240 | 4-3920 | 0.582 | 192.1 | -32.8 | -13.05 | 1.227 | 64.0 | 0.632 | 2.030 | 69.9 | 200.9 | --- | 3.313 | 12.69 | 0.423 | 61.2 | 39.3 | 16.0 | 0.296 |
| 4-3240 | 4-3940 | 0.578 | 191.4 | -35.8 | -14.19 | 1.229 | 65.0 | 0.628 | 2.052 | 67.3 | 201.9 | --- | 3.341 | 13.46 | 0.429 | 60.7 | 42.1 | 17.0 | 0.299 |
| 4-3250 | 4-3390 | 1.299 | 180.2 | 7.1 | 21.87 | 1.214 | 19.3 | 0.957 | 1.929 | 151.2 | 169.0 | --- | --- | 29.27 | 0.477 | 161.7 | 19.9 | 6.6 | 0.641 |
| 4-3250 | 4-3410 | 1.226 | 180.9 | 5.8 | 15.93 | 1.184 | 22.1 | 0.939 | 1.693 | 148.4 | 170.3 | --- | --- | 23.68 | 0.389 | 154.7 | 17.9 | 6.8 | 0.560 |
| 4-3250 | 4-3430 | 1.169 | 181.8 | 4.6 | 11.84 | 1.167 | 24.8 | 0.921 | 1.584 | 145.6 | 171.7 | --- | --- | 19.94 | 0.326 | 146.3 | 16.0 | 7.1 | 0.500 |
| 4-3250 | 4-3450 | 1.122 | 182.7 | 3.4 | 8.85 | 1.157 | 27.2 | 0.903 | 1.532 | 142.8 | 173.0 | --- | --- | 17.30 | 0.284 | 136.7 | 14.1 | 7.3 | 0.456 |
| 4-3250 | 4-3470 | 1.082 | 183.7 | 2.1 | 6.55 | 1.153 | 29.4 | 0.887 | 1.508 | 139.9 | 174.4 | --- | --- | 15.36 | 0.257 | 126.4 | 12.4 | 7.5 | 0.423 |
| 4-3250 | 4-3490 | 1.046 | 184.6 | 1.0 | 4.72 | 1.152 | 31.4 | 0.871 | 1.502 | 137.1 | 175.7 | --- | --- | 13.89 | 0.244 | 116.3 | 11.0 | 7.6 | 0.398 |
| 4-3250 | 4-3510 | 1.015 | 185.6 | -0.2 | 3.21 | 1.153 | 33.3 | 0.855 | 1.507 | 134.3 | 177.0 | --- | --- | 12.74 | 0.240 | 106.9 | 9.9 | 7.7 | 0.378 |
| 4-3250 | 4-3530 | 0.986 | 186.5 | -1.4 | 1.94 | 1.155 | 35.1 | 0.841 | 1.519 | 131.4 | 178.3 | --- | --- | 11.84 | 0.242 | 98.8 | 9.1 | 7.8 | 0.364 |
| 4-3250 | 4-3550 | 0.959 | 187.5 | -2.6 | 0.84 | 1.158 | 36.9 | 0.827 | 1.536 | 128.6 | 179.6 | --- | --- | 11.11 | 0.249 | 92.0 | 8.7 | 7.8 | 0.353 |
| 4-3250 | 4-3570 | 0.934 | 188.4 | -3.7 | -0.14 | 1.162 | 38.5 | 0.813 | 1.556 | 125.8 | 180.8 | --- | 2.822 | 10.53 | 0.258 | 86.4 | 8.7 | 7.9 | 0.344 |
| 4-3250 | 4-3590 | 0.910 | 189.3 | -4.9 | -1.01 | 1.166 | 40.0 | 0.801 | 1.578 | 123.0 | 182.0 | --- | 2.842 | 10.06 | 0.268 | 81.8 | 8.9 | 7.9 | 0.337 |
| 4-3250 | 4-3610 | 0.888 | 190.2 | -6.1 | -1.80 | 1.170 | 41.5 | 0.789 | 1.603 | 120.2 | 183.2 | --- | 2.866 | 9.67 | 0.279 | 78.1 | 9.5 | 8.0 | 0.331 |
| 4-3250 | 4-3630 | 0.866 | 191.1 | -7.3 | -2.53 | 1.174 | 43.0 | 0.777 | 1.628 | 117.4 | 184.4 | --- | 2.893 | 9.36 | 0.290 | 75.1 | 10.3 | 8.0 | 0.327 |
| 4-3250 | 4-3650 | 0.846 | 192.0 | -8.5 | -3.21 | 1.178 | 44.3 | 0.766 | 1.654 | 114.6 | 185.6 | --- | 2.921 | 9.12 | 0.301 | 72.6 | 11.3 | 8.1 | 0.323 |
| 4-3250 | 4-3670 | 0.826 | 192.8 | -9.8 | -3.86 | 1.182 | 45.7 | 0.756 | 1.680 | 111.9 | 186.7 | --- | 2.950 | 8.93 | 0.312 | 70.5 | 12.6 | 8.2 | 0.320 |
| 4-3250 | 4-3690 | 0.806 | 193.6 | -11.0 | -4.47 | 1.186 | 47.0 | 0.746 | 1.707 | 109.2 | 187.8 | --- | 2.980 | 8.79 | 0.322 | 68.7 | 14.0 | 8.3 | 0.317 |
| 4-3250 | 4-3710 | 0.788 | 194.4 | -12.4 | -5.07 | 1.190 | 48.3 | 0.736 | 1.734 | 106.4 | 189.0 | --- | 3.011 | 8.69 | 0.332 | 67.2 | 15.6 | 8.4 | 0.315 |
| 4-3250 | 4-3730 | 0.770 | 195.2 | -13.7 | -5.65 | 1.194 | 49.5 | 0.727 | 1.761 | 103.7 | 190.1 | --- | 3.042 | 8.63 | 0.342 | 65.9 | 17.4 | 8.6 | 0.313 |
| 4-3250 | 4-3750 | 0.752 | 195.9 | -15.1 | -6.22 | 1.197 | 50.7 | 0.718 | 1.788 | 101.1 | 191.1 | --- | 3.073 | 8.61 | 0.351 | 64.8 | 19.3 | 8.8 | 0.311 |
| 4-3250 | 4-3770 | 0.735 | 196.6 | -16.5 | -6.79 | 1.201 | 51.9 | 0.710 | 1.815 | 98.4 | 192.2 | --- | 3.104 | 8.63 | 0.359 | 63.8 | 21.3 | 9.0 | 0.310 |
| 4-3250 | 4-3790 | 0.719 | 197.3 | -18.0 | -7.36 | 1.204 | 53.1 | 0.702 | 1.842 | 95.7 | 193.3 | --- | 3.135 | 8.69 | 0.368 | 63.0 | 23.5 | 9.2 | 0.308 |
| 4-3250 | 4-3810 | 0.703 | 197.9 | -19.6 | -7.94 | 1.207 | 54.2 | 0.695 | 1.868 | 93.1 | 194.3 | --- | 3.166 | 8.79 | 0.376 | 62.2 | 25.7 | 9.5 | 0.307 |
| 4-3250 | 4-3830 | 0.688 | 198.5 | -21.2 | -8.53 | 1.210 | 55.3 | 0.688 | 1.894 | 90.5 | 195.4 | --- | 3.196 | 8.92 | 0.384 | 61.5 | 28.0 | 9.8 | 0.306 |
| 4-3250 | 4-3850 | 0.674 | 199.1 | -23.0 | -9.14 | 1.213 | 56.4 | 0.681 | 1.919 | 87.8 | 196.5 | --- | 3.226 | 9.10 | 0.391 | 60.9 | 30.4 | 10.2 | 0.306 |
| 4-3250 | 4-3870 | 0.660 | 199.6 | -24.8 | -9.77 | 1.216 | 57.5 | 0.674 | 1.945 | 85.2 | 197.5 | --- | 3.256 | 9.32 | 0.399 | 60.4 | 32.9 | 10.6 | 0.305 |
| 4-3250 | 4-3890 | 0.647 | 200.0 | -26.7 | -10.44 | 1.219 | 58.6 | 0.668 | 1.970 | 82.6 | 198.6 | --- | 3.286 | 9.59 | 0.406 | 59.9 | 35.4 | 11.1 | 0.305 |
| 4-3250 | 4-3910 | 0.635 | 200.3 | -28.8 | -11.15 | 1.221 | 59.7 | 0.662 | 1.994 | 80.0 | 199.6 | --- | 3.315 | 9.92 | 0.413 | 59.4 | 38.1 | 11.6 | 0.305 |
| 4-3250 | 4-3930 | 0.625 | 200.5 | -31.0 | -11.90 | 1.224 | 60.7 | 0.657 | 2.018 | 77.4 | 200.7 | --- | 3.344 | 10.31 | 0.420 | 59.0 | 40.8 | 12.2 | 0.305 |
| 4-3250 | 4-3950 | 0.615 | 200.6 | -33.3 | -12.73 | 1.226 | 61.7 | 0.652 | 2.042 | 74.9 | 201.7 | --- | 3.372 | 10.79 | 0.427 | 58.6 | 43.5 | 12.9 | 0.306 |
| 4-3260 | 4-3420 | 1.332 | 185.1 | 3.2 | 22.36 | 1.173 | 14.9 | 0.971 | 1.638 | 159.2 | 173.9 | --- | --- | 30.77 | 0.359 | 161.8 | 16.5 | 5.5 | 0.599 |
| 4-3260 | 4-3440 | 1.269 | 186.2 | 1.9 | 15.23 | 1.156 | 17.8 | 0.958 | 1.537 | 155.8 | 174.5 | --- | --- | 23.93 | 0.291 | 153.2 | 14.7 | 5.7 | 0.538 |
| 4-3260 | 4-3460 | 1.218 | 187.4 | 0.6 | 10.61 | 1.147 | 20.6 | 0.943 | 1.489 | 152.5 | 175.2 | --- | --- | 19.60 | 0.244 | 142.6 | 13.1 | 5.8 | 0.492 |
| 4-3260 | 4-3480 | 1.174 | 188.5 | -0.6 | 7.38 | 1.143 | 23.1 | 0.928 | 1.469 | 149.3 | 176.1 | --- | --- | 16.67 | 0.215 | 130.4 | 11.7 | 5.9 | 0.458 |
| 4-3260 | 4-3500 | 1.136 | 189.6 | -1.8 | 4.98 | 1.142 | 25.4 | 0.913 | 1.466 | 146.1 | 177.1 | --- | --- | 14.57 | 0.202 | 117.8 | 10.5 | 6.0 | 0.432 |
| 4-3260 | 4-3520 | 1.101 | 190.7 | -3.0 | 3.13 | 1.144 | 27.6 | 0.898 | 1.473 | 143.0 | 178.1 | --- | --- | 13.01 | 0.200 | 106.1 | 9.7 | 6.0 | 0.412 |
| 4-3260 | 4-3540 | 1.070 | 191.8 | -4.1 | 1.63 | 1.146 | 29.6 | 0.884 | 1.486 | 140.0 | 179.2 | --- | --- | 11.82 | 0.205 | 96.3 | 9.3 | 6.1 | 0.396 |
| 4-3260 | 4-3560 | 1.041 | 192.8 | -5.3 | 0.39 | 1.150 | 31.5 | 0.870 | 1.505 | 137.0 | 180.2 | --- | 2.813 | 10.89 | 0.215 | 88.3 | 9.1 | 6.1 | 0.384 |
| 4-3260 | 4-3580 | 1.014 | 193.9 | -6.4 | -0.66 | 1.154 | 33.4 | 0.856 | 1.526 | 134.0 | 181.3 | --- | 2.832 | 10.15 | 0.228 | 82.1 | 9.3 | 6.1 | 0.374 |
| 4-3260 | 4-3600 | 0.989 | 194.9 | -7.5 | -1.58 | 1.158 | 35.1 | 0.843 | 1.550 | 131.1 | 182.4 | --- | 2.856 | 9.55 | 0.242 | 77.3 | 9.8 | 6.1 | 0.366 |
| 4-3260 | 4-3620 | 0.965 | 195.9 | -8.6 | -2.39 | 1.163 | 36.7 | 0.830 | 1.575 | 128.2 | 183.5 | --- | 2.882 | 9.06 | 0.256 | 73.5 | 10.5 | 6.2 | 0.359 |
| 4-3260 | 4-3640 | 0.941 | 196.8 | -9.7 | -3.12 | 1.167 | 38.3 | 0.818 | 1.601 | 125.3 | 184.6 | --- | 2.911 | 8.67 | 0.269 | 70.5 | 11.5 | 6.2 | 0.353 |
| 4-3260 | 4-3660 | 0.919 | 197.8 | -10.9 | -3.79 | 1.172 | 39.8 | 0.806 | 1.628 | 122.5 | 185.7 | --- | 2.941 | 8.35 | 0.282 | 68.1 | 12.7 | 6.3 | 0.349 |
| 4-3260 | 4-3680 | 0.898 | 198.7 | -12.0 | -4.41 | 1.176 | 41.3 | 0.795 | 1.656 | 119.7 | 186.7 | --- | 2.972 | 8.09 | 0.295 | 66.2 | 14.0 | 6.3 | 0.344 |
| 4-3260 | 4-3700 | 0.877 | 199.6 | -13.2 | -4.99 | 1.180 | 42.7 | 0.784 | 1.684 | 116.9 | 187.8 | --- | 3.004 | 7.88 | 0.307 | 64.6 | 15.6 | 6.4 | 0.341 |
| 4-3260 | 4-3720 | 0.857 | 200.4 | -14.3 | -5.53 | 1.184 | 44.1 | 0.773 | 1.712 | 114.1 | 188.8 | --- | 3.036 | 7.72 | 0.318 | 63.2 | 17.3 | 6.5 | 0.337 |
| 4-3260 | 4-3740 | 0.837 | 201.3 | -15.5 | -6.06 | 1.188 | 45.4 | 0.763 | 1.740 | 111.4 | 189.9 | --- | 3.068 | 7.59 | 0.329 | 62.1 | 19.1 | 6.6 | 0.335 |
| 4-3260 | 4-3760 | 0.818 | 202.1 | -16.8 | -6.56 | 1.192 | 46.7 | 0.754 | 1.768 | 108.7 | 190.9 | --- | 3.100 | 7.51 | 0.340 | 61.2 | 21.1 | 6.7 | 0.332 |
| 4-3260 | 4-3780 | 0.800 | 203.0 | -18.0 | -7.06 | 1.196 | 48.0 | 0.744 | 1.795 | 106.0 | 192.0 | --- | 3.132 | 7.46 | 0.350 | 60.4 | 23.1 | 6.9 | 0.329 |
| 4-3260 | 4-3800 | 0.782 | 203.7 | -19.3 | -7.55 | 1.199 | 49.3 | 0.736 | 1.823 | 103.3 | 193.0 | --- | 3.164 | 7.44 | 0.359 | 59.7 | 25.3 | 7.0 | 0.327 |
| 4-3260 | 4-3820 | 0.765 | 204.5 | -20.7 | -8.03 | 1.203 | 50.5 | 0.727 | 1.850 | 100.6 | 194.1 | --- | 3.195 | 7.45 | 0.368 | 59.0 | 27.5 | 7.2 | 0.325 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3260 | 4-3840 | 0.748 | 205.3 | -22.1 | -8.52 | 1.206 | 51.7 | 0.719 | 1.877 | 97.9 | 195.1 | --- | 3.226 | 7.50 | 0.377 | 58.5 | 29.9 | 7.4 | 0.323 |
| 4-3260 | 4-3860 | 0.732 | 206.0 | -23.5 | -9.01 | 1.209 | 52.8 | 0.711 | 1.903 | 95.3 | 196.1 | --- | 3.257 | 7.58 | 0.385 | 58.0 | 32.3 | 7.7 | 0.322 |
| 4-3260 | 4-3880 | 0.716 | 206.7 | -25.0 | -9.52 | 1.212 | 54.0 | 0.704 | 1.929 | 92.7 | 197.2 | --- | 3.287 | 7.69 | 0.393 | 57.6 | 34.8 | 8.0 | 0.320 |
| 4-3260 | 4-3900 | 0.701 | 207.3 | -26.6 | -10.04 | 1.215 | 55.1 | 0.697 | 1.955 | 90.0 | 198.2 | --- | 3.317 | 7.83 | 0.401 | 57.2 | 37.3 | 8.3 | 0.319 |
| 4-3260 | 4-3920 | 0.687 | 207.9 | -28.3 | -10.58 | 1.217 | 56.2 | 0.690 | 1.980 | 87.4 | 199.2 | --- | 3.347 | 8.02 | 0.409 | 56.9 | 39.9 | 8.6 | 0.318 |
| 4-3260 | 4-3940 | 0.673 | 208.5 | -30.1 | -11.15 | 1.220 | 57.3 | 0.683 | 2.005 | 84.8 | 200.3 | --- | 3.376 | 8.25 | 0.416 | 56.6 | 42.6 | 9.0 | 0.317 |
| 4-3260 | 4-3960 | 0.660 | 209.0 | -31.9 | -11.75 | 1.223 | 58.4 | 0.677 | 2.030 | 82.2 | 201.3 | --- | 3.404 | 8.53 | 0.423 | 56.3 | 45.3 | 9.5 | 0.317 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3500 | 4-3740 | 0.800 | 264.8 | -2.9 | 14.32 | 1.355 | 123.6 | 0.870 | 5.068 | 287.0 | 491.7 | 0.660 | --- | -4.24 | 0.697 | 147.0 | 123.6 | -2.7 | 0.588 |
| 4-3500 | 4-3760 | 0.746 | 264.4 | -2.4 | 13.73 | 1.323 | 121.7 | 0.808 | 3.527 | 287.7 | 496.2 | 0.677 | --- | -3.72 | 0.631 | 143.3 | 124.7 | -2.7 | 0.516 |
| 4-3500 | 4-3780 | 0.703 | 264.1 | -1.8 | 13.27 | 1.298 | 120.2 | 0.759 | 2.873 | 288.3 | 500.6 | 0.692 | --- | -3.32 | 0.575 | 139.4 | 125.3 | -2.7 | 0.455 |
| 4-3500 | 4-3800 | 0.668 | 263.9 | -1.4 | 12.90 | 1.279 | 118.9 | 0.720 | 2.519 | 288.9 | 504.9 | 0.705 | --- | -3.02 | 0.530 | 135.2 | 125.6 | -2.8 | 0.403 |
| 4-3500 | 4-3820 | 0.641 | 263.7 | -1.0 | 12.59 | 1.265 | 117.9 | 0.690 | 2.303 | 289.3 | 509.1 | 0.715 | --- | -2.77 | 0.492 | 130.9 | 125.5 | -2.9 | 0.359 |
| 4-3500 | 4-3840 | 0.620 | 263.5 | -0.7 | 12.33 | 1.253 | 117.1 | 0.666 | 2.161 | 289.7 | 513.2 | 0.723 | --- | -2.58 | 0.460 | 126.5 | 124.9 | -3.0 | 0.322 |
| 4-3500 | 4-3860 | 0.604 | 263.4 | -0.5 | 12.10 | 1.244 | 116.5 | 0.647 | 2.064 | 289.9 | 517.1 | 0.729 | --- | -2.42 | 0.435 | 121.9 | 123.8 | -3.1 | 0.290 |
| 4-3500 | 4-3880 | 0.592 | 263.4 | -0.5 | 11.90 | 1.238 | 116.1 | 0.633 | 1.994 | 289.9 | 520.8 | 0.732 | --- | -2.29 | 0.414 | 117.3 | 122.1 | -3.2 | 0.263 |
| 4-3500 | 4-3900 | 0.583 | 263.4 | -0.5 | 11.72 | 1.233 | 115.8 | 0.623 | 1.945 | 289.8 | 524.4 | 0.734 | --- | -2.18 | 0.398 | 112.7 | 119.9 | -3.3 | 0.241 |
| 4-3500 | 4-3920 | 0.578 | 263.5 | -0.7 | 11.56 | 1.229 | 115.7 | 0.615 | 1.909 | 289.5 | 527.8 | 0.734 | --- | -2.08 | 0.385 | 108.1 | 117.1 | -3.4 | 0.224 |
| 4-3500 | 4-3940 | 0.575 | 263.7 | -1.0 | 11.40 | 1.226 | 115.7 | 0.611 | 1.883 | 289.1 | 531.1 | 0.732 | --- | -2.01 | 0.375 | 103.5 | 114.0 | -3.5 | 0.212 |
| 4-3500 | 4-3960 | 0.576 | 264.0 | -1.4 | 11.26 | 1.224 | 115.9 | 0.609 | 1.865 | 288.4 | 534.1 | 0.729 | --- | -1.95 | 0.368 | 99.0 | 110.6 | -3.5 | 0.203 |
| 4-3500 | 4-3980 | 0.578 | 264.3 | -1.8 | 11.13 | 1.222 | 116.1 | 0.609 | 1.853 | 287.6 | 537.0 | 0.724 | --- | -1.90 | 0.364 | 94.7 | 107.3 | -3.5 | 0.198 |
| 4-3500 | 4-4000 | 0.583 | 264.8 | -2.4 | 11.00 | 1.221 | 116.5 | 0.611 | 1.845 | 286.6 | 539.7 | 0.717 | --- | -1.85 | 0.362 | 90.5 | 104.1 | -3.4 | 0.197 |
| 4-3500 | 4-4020 | 0.590 | 265.3 | -3.0 | 10.88 | 1.221 | 117.0 | 0.615 | 1.841 | 285.5 | 542.2 | 0.709 | 2.973 | -1.82 | 0.361 | 86.4 | 101.2 | -3.3 | 0.199 |
| 4-3500 | 4-4040 | 0.599 | 265.9 | -3.7 | 10.76 | 1.221 | 117.6 | 0.620 | 1.840 | 284.1 | 544.6 | 0.699 | 2.981 | -1.80 | 0.362 | 82.6 | 98.9 | -3.2 | 0.204 |
| 4-3500 | 4-4060 | 0.609 | 266.5 | -4.4 | 10.64 | 1.221 | 118.3 | 0.627 | 1.841 | 282.6 | 546.8 | 0.688 | 2.995 | -1.78 | 0.364 | 78.9 | 97.2 | -3.0 | 0.210 |
| 4-3500 | 4-4080 | 0.622 | 267.3 | -5.2 | 10.52 | 1.221 | 119.1 | 0.634 | 1.845 | 280.9 | 548.9 | 0.674 | 3.015 | -1.77 | 0.367 | 75.3 | 96.0 | -2.9 | 0.219 |
| 4-3500 | 4-4100 | 0.637 | 268.1 | -6.0 | 10.41 | 1.222 | 120.0 | 0.644 | 1.849 | 279.1 | 550.7 | 0.659 | 3.040 | -1.77 | 0.372 | 71.9 | 95.5 | -2.7 | 0.230 |
| 4-3500 | 4-4120 | 0.654 | 269.1 | -6.8 | 10.29 | 1.222 | 121.0 | 0.654 | 1.856 | 277.0 | 552.5 | 0.642 | 3.069 | -1.78 | 0.376 | 68.7 | 95.5 | -2.6 | 0.242 |
| 4-3500 | 4-4140 | 0.673 | 270.1 | -7.7 | 10.17 | 1.223 | 122.1 | 0.665 | 1.863 | 274.8 | 554.0 | 0.623 | 3.103 | -1.80 | 0.382 | 65.5 | 96.0 | -2.5 | 0.255 |
| 4-3500 | 4-4160 | 0.694 | 271.2 | -8.5 | 10.05 | 1.224 | 123.4 | 0.678 | 1.871 | 272.3 | 555.4 | 0.602 | 3.141 | -1.82 | 0.388 | 62.5 | 97.0 | -2.3 | 0.269 |
| 4-3500 | 4-4180 | 0.717 | 272.4 | -9.4 | 9.92 | 1.225 | 124.8 | 0.692 | 1.881 | 269.7 | 556.6 | 0.579 | 3.182 | -1.85 | 0.395 | 59.5 | 98.5 | -2.2 | 0.285 |
| 4-3500 | 4-4200 | 0.743 | 273.7 | -10.3 | 9.79 | 1.227 | 126.3 | 0.707 | 1.891 | 266.9 | 557.7 | 0.554 | 3.228 | -1.90 | 0.402 | 56.7 | 100.3 | -2.1 | 0.302 |
| 4-3500 | 4-4220 | 0.771 | 275.0 | -11.2 | 9.64 | 1.228 | 127.9 | 0.723 | 1.902 | 263.8 | 558.6 | 0.527 | 3.277 | -1.95 | 0.409 | 53.8 | 102.4 | -2.0 | 0.320 |
| 4-3500 | 4-4240 | 0.802 | 276.5 | -12.1 | 9.49 | 1.229 | 129.7 | 0.740 | 1.913 | 260.6 | 559.2 | 0.497 | 3.330 | -2.02 | 0.417 | 51.0 | 104.9 | -1.9 | 0.339 |
| 4-3500 | 4-4260 | 0.836 | 278.1 | -13.0 | 9.32 | 1.230 | 131.7 | 0.759 | 1.925 | 257.1 | 559.7 | 0.464 | 3.387 | -2.11 | 0.424 | 48.1 | 107.6 | -1.9 | 0.360 |
| 4-3500 | 4-4280 | 0.872 | 279.8 | -13.8 | 9.14 | 1.232 | 133.8 | 0.778 | 1.938 | 253.3 | 560.0 | 0.430 | 3.447 | -2.21 | 0.432 | 45.3 | 110.7 | -1.8 | 0.382 |
| 4-3500 | 4-4300 | 0.912 | 281.6 | -14.6 | 8.93 | 1.233 | 136.2 | 0.799 | 1.952 | 249.3 | 560.0 | 0.393 | 3.511 | -2.34 | 0.441 | 42.4 | 114.0 | -1.7 | 0.405 |
| 4-3500 | 4-4320 | 0.956 | 283.6 | -15.4 | 8.70 | 1.235 | 138.7 | 0.820 | 1.965 | 245.0 | 559.8 | 0.353 | 3.578 | -2.50 | 0.449 | 39.4 | 117.6 | -1.7 | 0.430 |
| 4-3500 | 4-4340 | 1.003 | 285.7 | -16.2 | 8.42 | 1.236 | 141.4 | 0.843 | 1.980 | 240.4 | 559.4 | 0.312 | 3.648 | -2.70 | 0.457 | 36.3 | 121.5 | -1.6 | 0.457 |
| 4-3500 | 4-4360 | 1.053 | 287.9 | -16.9 | 8.09 | 1.238 | 144.4 | 0.865 | 1.995 | 235.5 | 558.6 | 0.269 | 3.721 | -2.96 | 0.466 | 33.1 | 125.6 | -1.5 | 0.486 |
| 4-3500 | 4-4380 | 1.108 | 290.3 | -17.5 | 7.69 | 1.239 | 147.7 | 0.888 | 2.011 | 230.2 | 557.6 | 0.225 | 3.797 | -3.29 | 0.474 | 29.7 | 129.9 | -1.5 | 0.516 |
| 4-3500 | 4-4400 | 1.166 | 292.8 | -18.1 | 7.17 | 1.241 | 151.2 | 0.911 | 2.027 | 224.6 | 556.2 | 0.181 | 3.874 | -3.74 | 0.483 | 26.2 | 134.5 | -1.5 | 0.549 |
| 4-3500 | 4-4420 | 1.229 | 295.5 | -18.6 | 6.48 | 1.243 | 155.0 | 0.933 | 2.044 | 218.6 | 554.5 | 0.138 | 3.951 | -4.36 | 0.491 | 22.6 | 139.4 | -1.4 | 0.584 |
| 4-3510 | 4-3750 | 0.827 | 274.6 | 8.3 | 21.89 | 1.359 | 121.0 | 0.869 | 5.366 | 292.6 | 489.5 | 0.702 | --- | -12.43 | 0.704 | 146.3 | 126.0 | -8.1 | 0.595 |
| 4-3510 | 4-3770 | 0.758 | 273.4 | 7.4 | 19.58 | 1.327 | 119.2 | 0.804 | 3.664 | 293.4 | 494.1 | 0.719 | --- | -10.23 | 0.638 | 142.6 | 127.3 | -7.6 | 0.521 |
| 4-3510 | 4-3790 | 0.706 | 272.6 | 6.8 | 17.95 | 1.302 | 117.7 | 0.752 | 2.960 | 294.2 | 498.6 | 0.734 | --- | -8.73 | 0.583 | 138.8 | 128.2 | -7.3 | 0.459 |
| 4-3510 | 4-3810 | 0.664 | 271.9 | 6.5 | 16.74 | 1.283 | 116.4 | 0.711 | 2.584 | 294.9 | 503.0 | 0.747 | --- | -7.64 | 0.538 | 134.7 | 128.7 | -7.2 | 0.406 |
| 4-3510 | 4-3830 | 0.632 | 271.3 | 6.2 | 15.80 | 1.269 | 115.3 | 0.679 | 2.355 | 295.5 | 507.3 | 0.757 | --- | -6.83 | 0.501 | 130.5 | 128.8 | -7.2 | 0.362 |
| 4-3510 | 4-3850 | 0.606 | 270.9 | 5.9 | 15.04 | 1.257 | 114.5 | 0.653 | 2.205 | 296.0 | 511.5 | 0.765 | --- | -6.19 | 0.470 | 126.2 | 128.4 | -7.3 | 0.323 |
| 4-3510 | 4-3870 | 0.586 | 270.5 | 5.5 | 14.41 | 1.248 | 113.9 | 0.633 | 2.102 | 296.3 | 515.5 | 0.771 | --- | -5.69 | 0.444 | 121.8 | 127.5 | -7.4 | 0.291 |
| 4-3510 | 4-3890 | 0.571 | 270.3 | 5.1 | 13.87 | 1.241 | 113.4 | 0.618 | 2.029 | 296.5 | 519.3 | 0.775 | --- | -5.28 | 0.424 | 117.3 | 126.1 | -7.6 | 0.264 |
| 4-3510 | 4-3910 | 0.559 | 270.1 | 4.7 | 13.40 | 1.236 | 113.1 | 0.607 | 1.977 | 296.5 | 523.0 | 0.778 | --- | -4.95 | 0.408 | 112.9 | 124.1 | -7.7 | 0.241 |
| 4-3510 | 4-3930 | 0.551 | 270.1 | 4.1 | 12.98 | 1.232 | 113.0 | 0.598 | 1.939 | 296.4 | 526.5 | 0.779 | --- | -4.67 | 0.395 | 108.4 | 121.6 | -7.9 | 0.223 |
| 4-3510 | 4-3950 | 0.546 | 270.1 | 3.5 | 12.61 | 1.229 | 112.9 | 0.593 | 1.911 | 296.0 | 529.9 | 0.778 | --- | -4.44 | 0.385 | 104.1 | 118.7 | -8.0 | 0.209 |
| 4-3510 | 4-3970 | 0.543 | 270.3 | 2.8 | 12.27 | 1.227 | 113.0 | 0.590 | 1.892 | 295.5 | 533.0 | 0.776 | --- | -4.25 | 0.379 | 99.8 | 115.5 | -8.0 | 0.199 |
| 4-3510 | 4-3990 | 0.543 | 270.5 | 2.0 | 11.96 | 1.225 | 113.2 | 0.589 | 1.878 | 294.8 | 536.0 | 0.772 | --- | -4.09 | 0.374 | 95.7 | 112.1 | -7.9 | 0.193 |
| 4-3510 | 4-4010 | 0.545 | 270.8 | 1.2 | 11.67 | 1.224 | 113.5 | 0.590 | 1.870 | 293.9 | 538.8 | 0.766 | --- | -3.96 | 0.372 | 91.7 | 108.9 | -7.7 | 0.190 |
| 4-3510 | 4-4030 | 0.549 | 271.3 | 0.3 | 11.40 | 1.224 | 113.9 | 0.593 | 1.864 | 292.9 | 541.5 | 0.760 | 2.969 | -3.85 | 0.371 | 87.8 | 105.9 | -7.5 | 0.191 |
| 4-3510 | 4-4050 | 0.555 | 271.8 | -0.6 | 11.13 | 1.224 | 114.4 | 0.596 | 1.862 | 291.7 | 544.0 | 0.752 | 2.973 | -3.76 | 0.372 | 84.2 | 103.4 | -7.2 | 0.194 |
| 4-3510 | 4-4070 | 0.563 | 272.5 | -1.6 | 10.88 | 1.224 | 115.0 | 0.602 | 1.863 | 290.3 | 546.3 | 0.742 | 2.984 | -3.70 | 0.374 | 80.7 | 101.4 | -6.9 | 0.199 |
| 4-3510 | 4-4090 | 0.573 | 273.2 | -2.6 | 10.64 | 1.224 | 115.7 | 0.608 | 1.865 | 288.7 | 548.5 | 0.731 | 3.000 | -3.64 | 0.377 | 77.3 | 100.0 | -6.5 | 0.206 |
| 4-3510 | 4-4110 | 0.585 | 274.0 | -3.6 | 10.40 | 1.224 | 116.5 | 0.616 | 1.870 | 287.0 | 550.5 | 0.718 | 3.021 | -3.61 | 0.381 | 74.1 | 99.2 | -6.1 | 0.215 |
| 4-3510 | 4-4130 | 0.598 | 274.9 | -4.7 | 10.16 | 1.225 | 117.4 | 0.625 | 1.875 | 285.0 | 552.4 | 0.703 | 3.047 | -3.59 | 0.385 | 71.0 | 98.9 | -5.8 | 0.226 |
| 4-3510 | 4-4150 | 0.614 | 275.9 | -5.7 | 9.92 | 1.226 | 118.4 | 0.635 | 1.882 | 282.9 | 554.1 | 0.687 | 3.077 | -3.59 | 0.391 | 68.1 | 99.2 | -5.5 | 0.238 |
| 4-3510 | 4-4170 | 0.632 | 277.0 | -6.8 | 9.68 | 1.227 | 119.6 | 0.646 | 1.890 | 280.7 | 555.6 | 0.669 | 3.111 | -3.60 | 0.396 | 65.3 | 99.9 | -5.2 | 0.250 |
| 4-3510 | 4-4190 | 0.651 | 278.1 | -7.8 | 9.43 | 1.228 | 120.8 | 0.658 | 1.899 | 278.2 | 557.0 | 0.649 | 3.148 | -3.63 | 0.403 | 62.5 | 101.1 | -4.9 | 0.265 |
| 4-3510 | 4-4210 | 0.673 | 279.4 | -8.9 | 9.18 | 1.229 | 122.1 | 0.672 | 1.908 | 275.6 | 558.3 | 0.627 | 3.190 | -3.68 | 0.409 | 59.8 | 102.7 | -4.7 | 0.280 |
| 4-3510 | 4-4230 | 0.698 | 280.8 | -9.9 | 8.92 | 1.230 | 123.6 | 0.686 | 1.918 | 272.7 | 559.4 | 0.602 | 3.235 | -3.74 | 0.416 | 57.2 | 104.6 | -4.4 | 0.296 |
| 4-3510 | 4-4250 | 0.725 | 282.2 | -10.9 | 8.64 | 1.231 | 125.2 | 0.702 | 1.929 | 269.7 | 560.3 | 0.576 | 3.283 | -3.83 | 0.424 | 54.6 | 106.9 | -4.2 | 0.313 |
| 4-3510 | 4-4270 | 0.754 | 283.8 | -11.9 | 8.35 | 1.232 | 126.9 | 0.718 | 1.941 | 266.4 | 561.0 | 0.547 | 3.335 | -3.94 | 0.431 | 52.0 | 109.5 | -4.0 | 0.332 |
| 4-3510 | 4-4290 | 0.786 | 285.5 | -12.8 | 8.03 | 1.234 | 128.8 | 0.736 | 1.953 | 262.9 | 561.5 | 0.515 | 3.391 | -4.09 | 0.439 | 49.4 | 112.3 | -3.9 | 0.352 |
| 4-3510 | 4-4310 | 0.822 | 287.3 | -13.7 | 7.69 | 1.235 | 130.8 | 0.755 | 1.965 | 259.2 | 561.9 | 0.481 | 3.450 | -4.26 | 0.447 | 46.7 | 115.4 | -3.7 | 0.373 |
| 4-3510 | 4-4330 | 0.860 | 289.2 | -14.5 | 7.30 | 1.236 | 133.1 | 0.776 | 1.979 | 255.2 | 562.0 | 0.444 | 3.513 | -4.48 | 0.455 | 44.1 | 118.8 | -3.6 | 0.395 |
| 4-3510 | 4-4350 | 0.902 | 291.2 | -15.3 | 6.87 | 1.238 | 135.5 | 0.797 | 1.992 | 250.9 | 561.8 | 0.405 | 3.580 | -4.75 | 0.463 | 41.3 | 122.4 | -3.5 | 0.420 |
| 4-3510 | 4-4370 | 0.948 | 293.4 | -16.1 | 6.38 | 1.239 | 138.2 | 0.819 | 2.006 | 246.3 | 561.5 | 0.363 | 3.650 | -5.09 | 0.471 | 38.4 | 126.3 | -3.3 | 0.446 |
| 4-3510 | 4-4390 | 0.998 | 295.7 | -16.8 | 5.80 | 1.241 | 141.1 | 0.842 | 2.021 | 241.4 | 560.8 | 0.319 | 3.724 | -5.51 | 0.479 | 35.4 | 130.5 | -3.2 | 0.474 |
| 4-3510 | 4-4410 | 1.051 | 298.1 | -17.3 | 5.10 | 1.242 | 144.2 | 0.866 | 2.036 | 236.2 | 559.9 | 0.273 | 3.800 | -6.06 | 0.487 | 32.2 | 134.9 | -3.1 | 0.504 |
| 4-3510 | 4-4430 | 1.109 | 300.7 | -17.9 | 4.23 | 1.244 | 147.7 | 0.890 | 2.052 | 230.6 | 558.6 | 0.226 | 3.878 | -6.78 | 0.495 | 28.9 | 139.5 | -3.0 | 0.537 |
| 4-3520 | 4-3760 | 1.033 | 292.3 | 28.7 | 41.35 | 1.362 | 118.7 | 0.868 | 5.594 | 297.8 | 487.6 | 0.739 | --- | -32.53 | 0.709 | 145.6 | 124.0 | -19.6 | 0.641 |
| 4-3520 | 4-3780 | 0.876 | 286.5 | 24.5 | 32.43 | 1.330 | 116.7 | 0.799 | 3.772 | 299.0 | 492.2 | 0.758 | --- | -23.79 | 0.643 | 141.9 | 127.4 | -17.0 | 0.547 |
| 4-3520 | 4-3800 | 0.776 | 283.2 | 21.3 | 27.16 | 1.305 | 115.1 | 0.745 | 3.031 | 300.1 | 496.8 | 0.774 | --- | -18.69 | 0.589 | 138.1 | 129.4 | -15.4 | 0.476 |
| 4-3520 | 4-3820 | 0.707 | 281.1 | 19.1 | 23.70 | 1.286 | 113.8 | 0.702 | 2.637 | 301.0 | 501.3 | 0.787 | --- | -15.41 | 0.545 | 134.1 | 130.5 | -14.4 | 0.419 |
| 4-3520 | 4-3840 | 0.657 | 279.6 | 17.3 | 21.26 | 1.272 | 112.8 | 0.668 | 2.399 | 301.8 | 505.7 | 0.797 | --- | -13.15 | 0.508 | 130.0 | 131.0 | -13.8 | 0.371 |
| 4-3520 | 4-3860 | 0.618 | 278.4 | 15.8 | 19.43 | 1.260 | 111.9 | 0.641 | 2.243 | 302.4 | 510.0 | 0.805 | --- | -11.50 | 0.477 | 125.8 | 131.0 | -13.5 | 0.331 |
| 4-3520 | 4-3880 | 0.589 | 277.6 | 14.5 | 18.01 | 1.251 | 111.3 | 0.620 | 2.136 | 302.9 | 514.1 | 0.812 | --- | -10.26 | 0.452 | 121.5 | 130.4 | -13.4 | 0.297 |
| 4-3520 | 4-3900 | 0.566 | 277.0 | 13.3 | 16.85 | 1.244 | 110.8 | 0.604 | 2.060 | 303.2 | 518.1 | 0.816 | --- | -9.29 | 0.432 | 117.2 | 129.3 | -13.4 | 0.269 |
| 4-3520 | 4-3920 | 0.548 | 276.5 | 12.2 | 15.90 | 1.239 | 110.4 | 0.592 | 2.005 | 303.4 | 521.8 | 0.819 | --- | -8.52 | 0.416 | 112.8 | 127.6 | -13.4 | 0.245 |
| 4-3520 | 4-3940 | 0.535 | 276.2 | 11.0 | 15.08 | 1.235 | 110.2 | 0.583 | 1.966 | 303.3 | 525.4 | 0.820 | --- | -7.90 | 0.404 | 108.6 | 125.4 | -13.5 | 0.226 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3520 | 4-3960 | 0.525 | 276.1 | 9.9 | 14.38 | 1.232 | 110.2 | 0.577 | 1.937 | 303.1 | 528.9 | 0.820 | --- | -7.39 | 0.394 | 104.4 | 122.7 | -13.5 | 0.211 |
| 4-3520 | 4-3980 | 0.518 | 276.0 | 8.7 | 13.75 | 1.230 | 110.2 | 0.573 | 1.916 | 302.7 | 532.1 | 0.819 | --- | -6.97 | 0.388 | 100.3 | 119.7 | -13.4 | 0.199 |
| 4-3520 | 4-4000 | 0.514 | 276.2 | 7.4 | 13.19 | 1.228 | 110.4 | 0.571 | 1.902 | 302.1 | 535.2 | 0.816 | --- | -6.62 | 0.383 | 96.3 | 116.5 | -13.2 | 0.192 |
| 4-3520 | 4-4020 | 0.513 | 276.4 | 6.2 | 12.68 | 1.227 | 110.6 | 0.571 | 1.892 | 301.3 | 538.1 | 0.812 | --- | -6.33 | 0.381 | 92.5 | 113.2 | -12.9 | 0.188 |
| 4-3520 | 4-4040 | 0.514 | 276.8 | 4.9 | 12.21 | 1.226 | 111.0 | 0.572 | 1.886 | 300.4 | 540.9 | 0.806 | 2.966 | -6.08 | 0.380 | 88.9 | 110.2 | -12.5 | 0.186 |
| 4-3520 | 4-4060 | 0.516 | 277.3 | 3.6 | 11.77 | 1.226 | 111.4 | 0.575 | 1.884 | 299.3 | 543.4 | 0.800 | 2.967 | -5.88 | 0.380 | 85.4 | 107.6 | -11.9 | 0.188 |
| 4-3520 | 4-4080 | 0.521 | 277.8 | 2.2 | 11.36 | 1.226 | 111.9 | 0.580 | 1.883 | 298.0 | 545.9 | 0.792 | 2.975 | -5.71 | 0.382 | 82.0 | 105.4 | -11.3 | 0.192 |
| 4-3520 | 4-4100 | 0.528 | 278.5 | 0.9 | 10.97 | 1.226 | 112.6 | 0.585 | 1.885 | 296.5 | 548.1 | 0.782 | 2.988 | -5.57 | 0.385 | 78.9 | 103.8 | -10.7 | 0.197 |
| 4-3520 | 4-4120 | 0.537 | 279.4 | -0.4 | 10.59 | 1.227 | 113.3 | 0.592 | 1.889 | 294.9 | 550.3 | 0.772 | 3.006 | -5.47 | 0.389 | 75.8 | 102.8 | -10.1 | 0.205 |
| 4-3520 | 4-4140 | 0.547 | 280.3 | -1.8 | 10.22 | 1.227 | 114.1 | 0.599 | 1.894 | 293.1 | 552.3 | 0.759 | 3.029 | -5.39 | 0.393 | 73.0 | 102.3 | -9.5 | 0.214 |
| 4-3520 | 4-4160 | 0.560 | 281.3 | -3.1 | 9.86 | 1.228 | 115.0 | 0.608 | 1.901 | 291.1 | 554.1 | 0.746 | 3.055 | -5.33 | 0.399 | 70.2 | 102.4 | -8.9 | 0.224 |
| 4-3520 | 4-4180 | 0.574 | 282.4 | -4.4 | 9.50 | 1.229 | 115.9 | 0.617 | 1.908 | 289.0 | 555.8 | 0.730 | 3.086 | -5.30 | 0.404 | 67.5 | 102.9 | -8.4 | 0.236 |
| 4-3520 | 4-4200 | 0.591 | 283.6 | -5.7 | 9.14 | 1.230 | 117.0 | 0.628 | 1.916 | 286.6 | 557.3 | 0.713 | 3.120 | -5.29 | 0.410 | 65.0 | 103.9 | -7.9 | 0.248 |
| 4-3520 | 4-4220 | 0.610 | 284.9 | -6.9 | 8.78 | 1.231 | 118.2 | 0.640 | 1.925 | 284.2 | 558.7 | 0.694 | 3.157 | -5.31 | 0.417 | 62.5 | 105.3 | -7.5 | 0.262 |
| 4-3520 | 4-4240 | 0.630 | 286.3 | -8.1 | 8.41 | 1.232 | 119.5 | 0.652 | 1.935 | 281.5 | 560.0 | 0.672 | 3.198 | -5.35 | 0.424 | 60.0 | 107.0 | -7.1 | 0.276 |
| 4-3520 | 4-4260 | 0.654 | 287.7 | -9.3 | 8.03 | 1.233 | 120.9 | 0.666 | 1.945 | 278.6 | 561.1 | 0.649 | 3.242 | -5.42 | 0.431 | 57.6 | 109.1 | -6.8 | 0.292 |
| 4-3520 | 4-4280 | 0.679 | 289.3 | -10.4 | 7.64 | 1.234 | 122.5 | 0.681 | 1.956 | 275.6 | 562.0 | 0.624 | 3.289 | -5.52 | 0.438 | 55.2 | 111.5 | -6.4 | 0.309 |
| 4-3520 | 4-4300 | 0.707 | 291.0 | -11.5 | 7.22 | 1.235 | 124.1 | 0.697 | 1.968 | 272.3 | 562.8 | 0.595 | 3.341 | -5.65 | 0.445 | 52.9 | 114.2 | -6.2 | 0.326 |
| 4-3520 | 4-4320 | 0.738 | 292.8 | -12.5 | 6.78 | 1.236 | 126.0 | 0.715 | 1.980 | 268.8 | 563.4 | 0.565 | 3.395 | -5.82 | 0.453 | 50.5 | 117.1 | -5.9 | 0.345 |
| 4-3520 | 4-4340 | 0.773 | 294.7 | -13.4 | 6.30 | 1.238 | 128.0 | 0.733 | 1.992 | 265.0 | 563.8 | 0.531 | 3.454 | -6.04 | 0.461 | 48.1 | 120.3 | -5.7 | 0.366 |
| 4-3520 | 4-4360 | 0.810 | 296.7 | -14.3 | 5.77 | 1.239 | 130.1 | 0.753 | 2.005 | 261.0 | 563.9 | 0.495 | 3.516 | -6.30 | 0.468 | 45.6 | 123.8 | -5.4 | 0.388 |
| 4-3520 | 4-4380 | 0.851 | 298.8 | -15.1 | 5.19 | 1.240 | 132.5 | 0.774 | 2.019 | 256.8 | 563.9 | 0.456 | 3.582 | -6.64 | 0.476 | 43.0 | 127.5 | -5.2 | 0.412 |
| 4-3520 | 4-4400 | 0.895 | 301.1 | -15.8 | 4.53 | 1.242 | 135.1 | 0.796 | 2.033 | 252.2 | 563.6 | 0.414 | 3.651 | -7.06 | 0.484 | 40.3 | 131.4 | -5.1 | 0.437 |
| 4-3520 | 4-4420 | 0.944 | 303.5 | -16.5 | 3.77 | 1.243 | 137.9 | 0.819 | 2.047 | 247.3 | 563.0 | 0.370 | 3.725 | -7.58 | 0.492 | 37.5 | 135.6 | -4.9 | 0.464 |
| 4-3520 | 4-4440 | 0.997 | 306.0 | -17.0 | 2.87 | 1.245 | 140.9 | 0.843 | 2.062 | 242.1 | 562.1 | 0.323 | 3.802 | -8.25 | 0.500 | 34.6 | 140.0 | -4.7 | 0.494 |
| 4-3530 | 4-3810 | 1.079 | 305.4 | 41.5 | 49.70 | 1.307 | 112.9 | 0.738 | 3.080 | 305.2 | 495.4 | 0.807 | --- | -42.02 | 0.593 | 137.5 | 123.3 | -28.5 | 0.563 |
| 4-3530 | 4-3830 | 0.892 | 296.3 | 37.4 | 38.72 | 1.288 | 111.5 | 0.693 | 2.677 | 306.7 | 499.9 | 0.822 | --- | -31.27 | 0.549 | 133.5 | 128.0 | -26.0 | 0.471 |
| 4-3530 | 4-3850 | 0.774 | 291.1 | 33.5 | 31.93 | 1.273 | 110.3 | 0.657 | 2.433 | 307.9 | 504.4 | 0.833 | --- | -24.70 | 0.513 | 129.4 | 130.5 | -24.1 | 0.406 |
| 4-3530 | 4-3870 | 0.694 | 287.8 | 30.2 | 27.39 | 1.262 | 109.4 | 0.630 | 2.273 | 308.8 | 508.7 | 0.842 | --- | -20.38 | 0.483 | 125.3 | 131.6 | -22.7 | 0.356 |
| 4-3530 | 4-3890 | 0.637 | 285.5 | 27.4 | 24.15 | 1.253 | 108.7 | 0.608 | 2.163 | 309.5 | 513.0 | 0.849 | --- | -17.38 | 0.459 | 121.1 | 131.8 | -21.8 | 0.316 |
| 4-3530 | 4-3910 | 0.595 | 284.0 | 24.9 | 21.72 | 1.246 | 108.2 | 0.591 | 2.086 | 310.0 | 517.0 | 0.854 | --- | -15.18 | 0.439 | 116.8 | 131.2 | -21.2 | 0.283 |
| 4-3530 | 4-3930 | 0.564 | 282.9 | 22.6 | 19.82 | 1.241 | 107.8 | 0.578 | 2.030 | 310.3 | 520.9 | 0.857 | --- | -13.51 | 0.423 | 112.6 | 130.0 | -20.8 | 0.256 |
| 4-3530 | 4-3950 | 0.539 | 282.1 | 20.5 | 18.29 | 1.237 | 107.6 | 0.568 | 1.989 | 310.4 | 524.6 | 0.859 | --- | -12.22 | 0.411 | 108.5 | 128.2 | -20.6 | 0.235 |
| 4-3530 | 4-3970 | 0.521 | 281.6 | 18.5 | 17.02 | 1.234 | 107.5 | 0.561 | 1.959 | 310.3 | 528.1 | 0.859 | --- | -11.19 | 0.402 | 104.4 | 125.9 | -20.3 | 0.218 |
| 4-3530 | 4-3990 | 0.507 | 281.3 | 16.6 | 15.94 | 1.231 | 107.5 | 0.557 | 1.937 | 310.0 | 531.4 | 0.858 | --- | -10.35 | 0.395 | 100.5 | 123.1 | -20.0 | 0.205 |
| 4-3530 | 4-4010 | 0.497 | 281.2 | 14.7 | 15.00 | 1.230 | 107.6 | 0.555 | 1.922 | 309.5 | 534.6 | 0.856 | --- | -9.67 | 0.391 | 96.7 | 120.1 | -19.5 | 0.195 |
| 4-3530 | 4-4030 | 0.490 | 281.3 | 12.8 | 14.17 | 1.229 | 107.8 | 0.554 | 1.912 | 308.8 | 537.5 | 0.853 | --- | -9.10 | 0.389 | 93.0 | 117.0 | -18.9 | 0.189 |
| 4-3530 | 4-4050 | 0.487 | 281.6 | 11.0 | 13.43 | 1.228 | 108.1 | 0.555 | 1.906 | 308.0 | 540.4 | 0.849 | 2.963 | -8.63 | 0.388 | 89.6 | 114.1 | -18.2 | 0.186 |
| 4-3530 | 4-4070 | 0.485 | 282.0 | 9.1 | 12.75 | 1.228 | 108.4 | 0.557 | 1.903 | 306.9 | 543.0 | 0.844 | 2.962 | -8.24 | 0.388 | 86.2 | 111.4 | -17.4 | 0.186 |
| 4-3530 | 4-4090 | 0.486 | 282.6 | 7.3 | 12.13 | 1.227 | 108.9 | 0.560 | 1.902 | 305.7 | 545.5 | 0.837 | 2.968 | -7.91 | 0.390 | 83.1 | 109.2 | -16.5 | 0.188 |
| 4-3530 | 4-4110 | 0.489 | 283.3 | 5.5 | 11.55 | 1.228 | 109.5 | 0.564 | 1.904 | 304.4 | 547.9 | 0.829 | 2.979 | -7.63 | 0.393 | 80.0 | 107.4 | -15.5 | 0.192 |
| 4-3530 | 4-4130 | 0.495 | 284.1 | 3.8 | 11.01 | 1.228 | 110.1 | 0.570 | 1.907 | 302.8 | 550.1 | 0.821 | 2.994 | -7.41 | 0.397 | 77.2 | 106.2 | -14.6 | 0.198 |
| 4-3530 | 4-4150 | 0.502 | 285.0 | 2.0 | 10.49 | 1.229 | 110.8 | 0.576 | 1.912 | 301.1 | 552.2 | 0.810 | 3.014 | -7.22 | 0.401 | 74.4 | 105.6 | -13.7 | 0.206 |
| 4-3530 | 4-4170 | 0.511 | 286.1 | 0.3 | 9.99 | 1.229 | 111.6 | 0.584 | 1.918 | 299.3 | 554.1 | 0.799 | 3.038 | -7.08 | 0.406 | 71.8 | 105.5 | -12.8 | 0.215 |
| 4-3530 | 4-4190 | 0.522 | 287.2 | -1.3 | 9.51 | 1.230 | 112.5 | 0.592 | 1.925 | 297.2 | 555.9 | 0.786 | 3.065 | -6.97 | 0.412 | 69.3 | 105.9 | -12.0 | 0.225 |
| 4-3530 | 4-4210 | 0.536 | 288.5 | -2.9 | 9.03 | 1.231 | 113.5 | 0.601 | 1.933 | 295.0 | 557.6 | 0.771 | 3.095 | -6.89 | 0.418 | 66.9 | 106.7 | -11.3 | 0.236 |
| 4-3530 | 4-4230 | 0.551 | 289.9 | -4.4 | 8.56 | 1.232 | 114.5 | 0.611 | 1.942 | 292.7 | 559.1 | 0.755 | 3.129 | -6.84 | 0.424 | 64.6 | 107.9 | -10.6 | 0.248 |
| 4-3530 | 4-4250 | 0.568 | 291.3 | -5.9 | 8.09 | 1.233 | 115.7 | 0.623 | 1.951 | 290.1 | 560.5 | 0.736 | 3.166 | -6.83 | 0.431 | 62.3 | 109.5 | -10.0 | 0.261 |
| 4-3530 | 4-4270 | 0.588 | 292.9 | -7.3 | 7.61 | 1.234 | 117.0 | 0.635 | 1.961 | 287.4 | 561.8 | 0.716 | 3.207 | -6.85 | 0.438 | 60.1 | 111.4 | -9.5 | 0.275 |
| 4-3530 | 4-4290 | 0.610 | 294.5 | -8.6 | 7.12 | 1.235 | 118.4 | 0.648 | 1.972 | 284.5 | 562.9 | 0.694 | 3.250 | -6.90 | 0.445 | 58.0 | 113.7 | -9.0 | 0.290 |
| 4-3530 | 4-4310 | 0.635 | 296.3 | -9.8 | 6.62 | 1.236 | 119.9 | 0.662 | 1.983 | 281.4 | 563.9 | 0.670 | 3.297 | -6.99 | 0.452 | 55.8 | 116.2 | -8.6 | 0.306 |
| 4-3530 | 4-4330 | 0.662 | 298.1 | -11.0 | 6.10 | 1.237 | 121.5 | 0.678 | 1.995 | 278.1 | 564.7 | 0.643 | 3.347 | -7.13 | 0.459 | 53.6 | 119.0 | -8.2 | 0.323 |
| 4-3530 | 4-4350 | 0.692 | 300.1 | -12.1 | 5.54 | 1.239 | 123.3 | 0.694 | 2.007 | 274.6 | 565.3 | 0.613 | 3.401 | -7.30 | 0.467 | 51.4 | 122.0 | -7.8 | 0.341 |
| 4-3530 | 4-4370 | 0.725 | 302.1 | -13.1 | 4.95 | 1.240 | 125.2 | 0.712 | 2.019 | 270.8 | 565.7 | 0.581 | 3.458 | -7.53 | 0.474 | 49.2 | 125.3 | -7.5 | 0.361 |
| 4-3530 | 4-4390 | 0.761 | 304.2 | -14.0 | 4.32 | 1.241 | 127.3 | 0.732 | 2.032 | 266.8 | 565.9 | 0.545 | 3.519 | -7.82 | 0.482 | 46.9 | 128.9 | -7.2 | 0.382 |
| 4-3530 | 4-4410 | 0.801 | 306.5 | -14.8 | 3.61 | 1.242 | 129.6 | 0.752 | 2.046 | 262.6 | 565.9 | 0.507 | 3.584 | -8.18 | 0.489 | 44.5 | 132.6 | -6.9 | 0.405 |
| 4-3530 | 4-4430 | 0.845 | 308.9 | -15.5 | 2.83 | 1.244 | 132.1 | 0.774 | 2.059 | 258.0 | 565.7 | 0.466 | 3.653 | -8.64 | 0.497 | 42.1 | 136.6 | -6.7 | 0.430 |
| 4-3530 | 4-4450 | 0.892 | 311.4 | -16.0 | 1.94 | 1.245 | 134.8 | 0.797 | 2.074 | 253.2 | 565.2 | 0.421 | 3.726 | -9.21 | 0.504 | 39.4 | 140.8 | -6.5 | 0.456 |
| 4-3540 | 4-3860 | 1.147 | 318.5 | 51.6 | 56.81 | 1.274 | 108.3 | 0.649 | 2.455 | 312.9 | 503.5 | 0.861 | --- | -50.49 | 0.516 | 128.9 | 120.7 | -35.4 | 0.534 |
| 4-3540 | 4-3880 | 0.936 | 305.6 | 48.3 | 44.26 | 1.263 | 107.1 | 0.619 | 2.294 | 314.6 | 507.8 | 0.873 | --- | -38.20 | 0.487 | 124.7 | 126.3 | -34.3 | 0.439 |
| 4-3540 | 4-3900 | 0.796 | 297.9 | 44.1 | 36.10 | 1.254 | 106.2 | 0.597 | 2.184 | 315.8 | 512.1 | 0.881 | --- | -30.31 | 0.463 | 120.6 | 129.3 | -32.7 | 0.372 |
| 4-3540 | 4-3920 | 0.701 | 293.2 | 40.1 | 30.54 | 1.247 | 105.6 | 0.579 | 2.106 | 316.6 | 516.2 | 0.887 | --- | -25.02 | 0.444 | 116.4 | 130.5 | -31.3 | 0.324 |
| 4-3540 | 4-3940 | 0.634 | 290.2 | 36.4 | 26.55 | 1.242 | 105.2 | 0.565 | 2.049 | 317.2 | 520.2 | 0.890 | --- | -21.30 | 0.429 | 112.3 | 130.5 | -30.1 | 0.287 |
| 4-3540 | 4-3960 | 0.584 | 288.2 | 33.1 | 23.54 | 1.238 | 104.9 | 0.555 | 2.008 | 317.5 | 523.9 | 0.893 | --- | -18.56 | 0.417 | 108.2 | 129.5 | -29.2 | 0.258 |
| 4-3540 | 4-3980 | 0.548 | 286.9 | 29.9 | 21.19 | 1.235 | 104.8 | 0.548 | 1.977 | 317.5 | 527.5 | 0.894 | --- | -16.49 | 0.408 | 104.3 | 127.8 | -28.4 | 0.236 |
| 4-3540 | 4-4000 | 0.520 | 286.1 | 27.0 | 19.29 | 1.232 | 104.7 | 0.543 | 1.956 | 317.4 | 530.9 | 0.894 | --- | -14.88 | 0.402 | 100.5 | 125.6 | -27.6 | 0.219 |
| 4-3540 | 4-4020 | 0.499 | 285.6 | 24.2 | 17.72 | 1.231 | 104.8 | 0.540 | 1.940 | 317.0 | 534.1 | 0.892 | --- | -13.59 | 0.398 | 96.8 | 123.0 | -26.7 | 0.206 |
| 4-3540 | 4-4040 | 0.483 | 285.4 | 21.5 | 16.38 | 1.230 | 105.0 | 0.539 | 1.930 | 316.4 | 537.2 | 0.890 | --- | -12.55 | 0.395 | 93.3 | 120.1 | -25.7 | 0.198 |
| 4-3540 | 4-4060 | 0.472 | 285.5 | 18.9 | 15.23 | 1.229 | 105.2 | 0.539 | 1.924 | 315.7 | 540.0 | 0.887 | 2.960 | -11.70 | 0.395 | 90.0 | 117.4 | -24.6 | 0.192 |
| 4-3540 | 4-4080 | 0.465 | 285.9 | 16.3 | 14.21 | 1.228 | 105.6 | 0.540 | 1.920 | 314.7 | 542.8 | 0.883 | 2.958 | -11.00 | 0.395 | 86.8 | 114.8 | -23.4 | 0.190 |
| 4-3540 | 4-4100 | 0.460 | 286.4 | 13.9 | 13.29 | 1.228 | 106.0 | 0.543 | 1.920 | 313.6 | 545.3 | 0.878 | 2.962 | -10.41 | 0.397 | 83.7 | 112.5 | -22.1 | 0.190 |
| 4-3540 | 4-4120 | 0.458 | 287.1 | 11.5 | 12.47 | 1.229 | 106.5 | 0.546 | 1.921 | 312.3 | 547.7 | 0.871 | 2.971 | -9.92 | 0.400 | 80.9 | 110.8 | -20.8 | 0.192 |
| 4-3540 | 4-4140 | 0.459 | 287.9 | 9.1 | 11.71 | 1.229 | 107.0 | 0.551 | 1.924 | 310.8 | 550.0 | 0.864 | 2.984 | -9.50 | 0.404 | 78.2 | 109.5 | -19.4 | 0.196 |
| 4-3540 | 4-4160 | 0.462 | 288.9 | 6.9 | 11.00 | 1.229 | 107.7 | 0.556 | 1.929 | 309.2 | 552.2 | 0.856 | 3.002 | -9.16 | 0.408 | 75.6 | 108.7 | -18.2 | 0.202 |
| 4-3540 | 4-4180 | 0.468 | 290.1 | 4.7 | 10.33 | 1.230 | 108.4 | 0.563 | 1.935 | 307.4 | 554.2 | 0.846 | 3.023 | -8.88 | 0.413 | 73.1 | 108.5 | -17.0 | 0.209 |
| 4-3540 | 4-4200 | 0.476 | 291.3 | 2.6 | 9.70 | 1.231 | 109.2 | 0.570 | 1.942 | 305.5 | 556.1 | 0.835 | 3.048 | -8.65 | 0.419 | 70.8 | 108.8 | -15.9 | 0.218 |
| 4-3540 | 4-4220 | 0.485 | 292.7 | 0.6 | 9.09 | 1.232 | 110.1 | 0.578 | 1.949 | 303.4 | 557.9 | 0.823 | 3.076 | -8.47 | 0.425 | 68.5 | 109.4 | -14.8 | 0.227 |
| 4-3540 | 4-4240 | 0.498 | 294.2 | -1.3 | 8.49 | 1.233 | 111.1 | 0.587 | 1.958 | 301.1 | 559.5 | 0.809 | 3.107 | -8.33 | 0.431 | 66.3 | 110.5 | -13.9 | 0.238 |
| 4-3540 | 4-4260 | 0.512 | 295.8 | -3.1 | 7.91 | 1.234 | 112.1 | 0.596 | 1.967 | 298.7 | 561.0 | 0.794 | 3.140 | -8.23 | 0.437 | 64.2 | 112.0 | -13.1 | 0.249 |
| 4-3540 | 4-4280 | 0.528 | 297.5 | -4.8 | 7.34 | 1.235 | 113.3 | 0.607 | 1.977 | 296.1 | 562.4 | 0.777 | 3.177 | -8.17 | 0.444 | 62.2 | 113.8 | -12.3 | 0.262 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3540 | 4-4300 | 0.547 | 299.3 | -6.4 | 6.76 | 1.236 | 114.5 | 0.619 | 1.987 | 293.3 | 563.7 | 0.758 | 3.217 | -8.15 | 0.451 | 60.2 | 115.9 | -11.7 | 0.275 |
| 4-3540 | 4-4320 | 0.568 | 301.1 | -7.9 | 6.18 | 1.237 | 115.9 | 0.631 | 1.998 | 290.4 | 564.8 | 0.737 | 3.260 | -8.18 | 0.458 | 58.2 | 118.3 | -11.0 | 0.289 |
| 4-3540 | 4-4340 | 0.592 | 303.1 | -9.3 | 5.58 | 1.238 | 117.3 | 0.645 | 2.010 | 287.3 | 565.7 | 0.714 | 3.305 | -8.25 | 0.465 | 56.2 | 121.0 | -10.5 | 0.305 |
| 4-3540 | 4-4360 | 0.618 | 305.1 | -10.6 | 4.97 | 1.239 | 118.9 | 0.660 | 2.021 | 283.9 | 566.6 | 0.688 | 3.355 | -8.36 | 0.473 | 54.3 | 123.9 | -10.0 | 0.321 |
| 4-3540 | 4-4380 | 0.647 | 307.3 | -11.7 | 4.32 | 1.240 | 120.7 | 0.676 | 2.033 | 280.4 | 567.2 | 0.659 | 3.407 | -8.52 | 0.480 | 52.3 | 127.1 | -9.6 | 0.339 |
| 4-3540 | 4-4400 | 0.679 | 309.5 | -12.7 | 3.64 | 1.241 | 122.5 | 0.693 | 2.046 | 276.6 | 567.7 | 0.628 | 3.463 | -8.74 | 0.487 | 50.2 | 130.5 | -9.2 | 0.358 |
| 4-3540 | 4-4420 | 0.715 | 311.8 | -13.6 | 2.91 | 1.243 | 124.6 | 0.711 | 2.059 | 272.6 | 567.9 | 0.594 | 3.523 | -9.03 | 0.495 | 48.1 | 134.1 | -8.8 | 0.378 |
| 4-3540 | 4-4440 | 0.754 | 314.2 | -14.4 | 2.12 | 1.244 | 126.8 | 0.731 | 2.072 | 268.3 | 568.0 | 0.557 | 3.587 | -9.40 | 0.502 | 45.9 | 137.9 | -8.5 | 0.400 |
| 4-3540 | 4-4460 | 0.797 | 316.7 | -15.0 | 1.25 | 1.245 | 129.2 | 0.753 | 2.086 | 263.7 | 567.8 | 0.516 | 3.656 | -9.86 | 0.509 | 43.6 | 142.0 | -8.2 | 0.424 |
| 4-3550 | 4-3790 | 0.688 | 322.8 | -66.1 | -23.20 | 1.359 | 107.8 | 0.842 | 5.600 | 320.9 | 482.1 | 0.886 | --- | 29.80 | 0.707 | 142.2 | 132.6 | 20.7 | 0.608 |
| 4-3550 | 4-3810 | 0.749 | 353.4 | -71.5 | -30.11 | 1.329 | 106.0 | 0.765 | 3.834 | 322.9 | 487.2 | 0.900 | --- | 36.40 | 0.645 | 138.6 | 130.4 | 26.2 | 0.572 |
| 4-3550 | 4-3830 | 0.882 | 29.8 | -67.8 | -40.12 | 1.305 | 104.3 | 0.705 | 3.099 | 325.1 | 492.2 | 0.913 | --- | 46.11 | 0.594 | 134.8 | 125.6 | 32.1 | 0.571 |
| 4-3550 | 4-3850 | 1.106 | 47.5 | -56.7 | -54.84 | 1.287 | 102.7 | 0.657 | 2.704 | 327.8 | 497.2 | 0.927 | --- | 60.52 | 0.552 | 130.8 | 117.5 | 36.3 | 0.614 |
| 4-3550 | 4-3910 | 1.215 | 331.8 | 59.9 | 62.73 | 1.254 | 104.4 | 0.588 | 2.196 | 320.7 | 511.6 | 0.904 | --- | -57.94 | 0.465 | 120.1 | 117.8 | -39.6 | 0.536 |
| 4-3550 | 4-3930 | 0.987 | 314.1 | 57.4 | 48.94 | 1.247 | 103.4 | 0.569 | 2.119 | 322.5 | 515.7 | 0.913 | --- | -44.45 | 0.447 | 115.9 | 123.4 | -40.3 | 0.436 |
| 4-3550 | 4-3950 | 0.826 | 303.4 | 53.2 | 39.58 | 1.242 | 102.8 | 0.555 | 2.063 | 323.7 | 519.7 | 0.918 | --- | -35.39 | 0.432 | 111.8 | 126.6 | -39.6 | 0.365 |
| 4-3550 | 4-3970 | 0.715 | 297.1 | 48.6 | 33.07 | 1.238 | 102.4 | 0.544 | 2.022 | 324.4 | 523.6 | 0.922 | --- | -29.18 | 0.421 | 107.8 | 127.9 | -38.4 | 0.315 |
| 4-3550 | 4-3990 | 0.636 | 293.3 | 44.2 | 28.36 | 1.235 | 102.2 | 0.536 | 1.992 | 324.7 | 527.2 | 0.924 | --- | -24.78 | 0.413 | 104.0 | 127.7 | -37.1 | 0.278 |
| 4-3550 | 4-4010 | 0.578 | 291.0 | 40.1 | 24.81 | 1.233 | 102.1 | 0.531 | 1.970 | 324.7 | 530.6 | 0.924 | --- | -21.54 | 0.407 | 100.3 | 126.5 | -35.8 | 0.251 |
| 4-3550 | 4-4030 | 0.535 | 289.6 | 36.1 | 22.03 | 1.231 | 102.1 | 0.528 | 1.955 | 324.5 | 533.9 | 0.924 | --- | -19.08 | 0.403 | 96.7 | 124.6 | -34.5 | 0.231 |
| 4-3550 | 4-4050 | 0.503 | 288.8 | 32.4 | 19.80 | 1.230 | 102.2 | 0.526 | 1.945 | 324.1 | 537.0 | 0.922 | --- | -17.16 | 0.401 | 93.3 | 122.4 | -33.1 | 0.217 |
| 4-3550 | 4-4070 | 0.478 | 288.6 | 28.9 | 17.95 | 1.229 | 102.4 | 0.525 | 1.938 | 323.4 | 539.9 | 0.920 | --- | -15.64 | 0.401 | 90.1 | 119.9 | -31.5 | 0.207 |
| 4-3550 | 4-4090 | 0.460 | 288.7 | 25.4 | 16.38 | 1.229 | 102.7 | 0.526 | 1.935 | 322.6 | 542.7 | 0.917 | 2.954 | -14.41 | 0.401 | 87.0 | 117.6 | -29.8 | 0.200 |
| 4-3550 | 4-4110 | 0.447 | 289.1 | 22.1 | 15.02 | 1.229 | 103.1 | 0.528 | 1.935 | 321.5 | 545.3 | 0.913 | 2.956 | -13.40 | 0.403 | 84.1 | 115.5 | -28.1 | 0.197 |
| 4-3550 | 4-4130 | 0.438 | 289.8 | 18.9 | 13.83 | 1.229 | 103.5 | 0.531 | 1.936 | 320.3 | 547.8 | 0.908 | 2.964 | -12.57 | 0.406 | 81.4 | 113.8 | -26.3 | 0.197 |
| 4-3550 | 4-4150 | 0.433 | 290.7 | 15.9 | 12.77 | 1.229 | 104.1 | 0.535 | 1.939 | 318.9 | 550.1 | 0.902 | 2.976 | -11.87 | 0.410 | 78.8 | 112.5 | -24.6 | 0.199 |
| 4-3550 | 4-4170 | 0.431 | 291.8 | 12.9 | 11.81 | 1.230 | 104.7 | 0.539 | 1.944 | 317.4 | 552.3 | 0.896 | 2.992 | -11.29 | 0.415 | 76.4 | 111.7 | -22.9 | 0.202 |
| 4-3550 | 4-4190 | 0.432 | 293.1 | 10.1 | 10.92 | 1.230 | 105.3 | 0.545 | 1.950 | 315.7 | 554.4 | 0.888 | 3.012 | -10.81 | 0.420 | 74.0 | 111.4 | -21.4 | 0.208 |
| 4-3550 | 4-4210 | 0.435 | 294.5 | 7.4 | 10.10 | 1.231 | 106.1 | 0.551 | 1.957 | 313.8 | 556.3 | 0.879 | 3.034 | -10.41 | 0.425 | 71.8 | 111.5 | -19.9 | 0.214 |
| 4-3550 | 4-4230 | 0.441 | 296.0 | 4.8 | 9.33 | 1.232 | 106.9 | 0.558 | 1.964 | 311.8 | 558.2 | 0.869 | 3.060 | -10.07 | 0.431 | 69.7 | 112.1 | -18.5 | 0.222 |
| 4-3550 | 4-4250 | 0.450 | 297.7 | 2.4 | 8.59 | 1.233 | 107.8 | 0.565 | 1.973 | 309.6 | 559.9 | 0.858 | 3.088 | -9.80 | 0.437 | 67.7 | 113.1 | -17.3 | 0.231 |
| 4-3550 | 4-4270 | 0.460 | 299.5 | 0.1 | 7.88 | 1.234 | 108.7 | 0.574 | 1.982 | 307.2 | 561.5 | 0.845 | 3.119 | -9.59 | 0.444 | 65.7 | 114.5 | -16.2 | 0.241 |
| 4-3550 | 4-4290 | 0.473 | 301.4 | -2.0 | 7.20 | 1.235 | 109.8 | 0.583 | 1.992 | 304.7 | 563.0 | 0.831 | 3.153 | -9.42 | 0.450 | 63.8 | 116.2 | -15.2 | 0.252 |
| 4-3550 | 4-4310 | 0.489 | 303.4 | -4.0 | 6.52 | 1.236 | 110.9 | 0.593 | 2.002 | 302.1 | 564.4 | 0.815 | 3.190 | -9.31 | 0.457 | 62.0 | 118.2 | -14.3 | 0.264 |
| 4-3550 | 4-4330 | 0.507 | 305.4 | -5.8 | 5.86 | 1.237 | 112.1 | 0.604 | 2.013 | 299.3 | 565.6 | 0.797 | 3.229 | -9.24 | 0.464 | 60.2 | 120.5 | -13.5 | 0.276 |
| 4-3550 | 4-4350 | 0.527 | 307.6 | -7.4 | 5.19 | 1.238 | 113.5 | 0.616 | 2.024 | 296.2 | 566.7 | 0.777 | 3.271 | -9.22 | 0.471 | 58.4 | 123.1 | -12.8 | 0.290 |
| 4-3550 | 4-4370 | 0.550 | 309.8 | -8.9 | 4.51 | 1.239 | 114.9 | 0.629 | 2.035 | 293.0 | 567.7 | 0.755 | 3.316 | -9.25 | 0.478 | 56.6 | 125.9 | -12.2 | 0.305 |
| 4-3550 | 4-4390 | 0.576 | 312.1 | -10.2 | 3.82 | 1.240 | 116.5 | 0.643 | 2.047 | 289.7 | 568.5 | 0.731 | 3.364 | -9.33 | 0.486 | 54.8 | 129.0 | -11.6 | 0.321 |
| 4-3550 | 4-4410 | 0.605 | 314.4 | -11.4 | 3.10 | 1.241 | 118.2 | 0.658 | 2.060 | 286.1 | 569.1 | 0.703 | 3.416 | -9.47 | 0.493 | 53.0 | 132.2 | -11.1 | 0.338 |
| 4-3550 | 4-4430 | 0.636 | 316.9 | -12.4 | 2.35 | 1.243 | 120.0 | 0.675 | 2.072 | 282.2 | 569.6 | 0.673 | 3.471 | -9.67 | 0.500 | 51.1 | 135.7 | -10.6 | 0.356 |
| 4-3550 | 4-4450 | 0.671 | 319.3 | -13.2 | 1.55 | 1.244 | 122.0 | 0.693 | 2.085 | 278.2 | 569.9 | 0.640 | 3.530 | -9.94 | 0.507 | 49.1 | 139.4 | -10.2 | 0.375 |
| 4-3550 | 4-4470 | 0.710 | 321.9 | -13.9 | 0.69 | 1.245 | 124.1 | 0.712 | 2.098 | 273.9 | 570.0 | 0.604 | 3.593 | -10.28 | 0.514 | 47.1 | 143.3 | -9.8 | 0.397 |
| 4-3560 | 4-3760 | 0.639 | 304.8 | -46.4 | -11.78 | 1.446 | 108.4 | 1.06014.893 | | 324.3 | 470.6 | 0.893 | --- | 18.24 | 0.865 | 147.7 | 136.0 | 11.4 | 0.731 |
| 4-3560 | 4-3780 | 0.593 | 308.0 | -53.5 | -14.14 | 1.394 | 106.3 | 0.92812.586 | | 326.1 | 475.9 | 0.908 | --- | 20.24 | 0.774 | 144.5 | 136.8 | 14.0 | 0.643 |
| 4-3560 | 4-3800 | 0.575 | 314.2 | -61.4 | -17.04 | 1.355 | 104.5 | 0.828 | 5.359 | 327.9 | 481.3 | 0.920 | --- | 22.80 | 0.701 | 141.2 | 137.0 | 17.3 | 0.574 |
| 4-3560 | 4-3820 | 0.586 | 327.4 | -69.1 | -20.72 | 1.325 | 102.9 | 0.752 | 3.756 | 329.8 | 486.6 | 0.931 | --- | 26.13 | 0.640 | 137.6 | 136.6 | 21.3 | 0.523 |
| 4-3560 | 4-3840 | 0.630 | 355.3 | -74.2 | -25.53 | 1.302 | 101.5 | 0.693 | 3.066 | 331.8 | 491.9 | 0.941 | --- | 30.62 | 0.590 | 133.8 | 135.0 | 26.3 | 0.490 |
| 4-3560 | 4-3860 | 0.716 | 31.7 | -72.6 | -32.07 | 1.285 | 100.2 | 0.647 | 2.690 | 333.9 | 497.0 | 0.949 | --- | 36.82 | 0.549 | 130.0 | 131.8 | 31.8 | 0.479 |
| 4-3560 | 4-3880 | 0.857 | 53.0 | -64.9 | -41.25 | 1.271 | 99.0 | 0.611 | 2.459 | 336.1 | 502.0 | 0.957 | --- | 45.67 | 0.516 | 125.9 | 126.4 | 37.0 | 0.496 |
| 4-3560 | 4-3900 | 1.069 | 61.6 | -54.2 | -54.33 | 1.260 | 97.8 | 0.582 | 2.306 | 338.7 | 506.9 | 0.964 | --- | 58.43 | 0.488 | 121.8 | 118.7 | 39.9 | 0.551 |
| 4-3560 | 4-3920 | 1.350 | 64.4 | -41.6 | -72.17 | 1.252 | 96.4 | 0.558 | 2.200 | 342.0 | 511.6 | 0.972 | --- | 75.95 | 0.466 | 117.5 | 110.9 | 38.5 | 0.644 |
| 4-3560 | 4-3960 | 1.275 | 346.1 | 67.1 | 67.53 | 1.241 | 101.0 | 0.547 | 2.070 | 328.5 | 519.6 | 0.937 | --- | -64.40 | 0.435 | 111.4 | 116.2 | -41.3 | 0.553 |
| 4-3560 | 4-3980 | 1.033 | 321.4 | 65.4 | 52.71 | 1.237 | 100.3 | 0.535 | 2.031 | 330.3 | 523.4 | 0.944 | --- | -49.91 | 0.424 | 107.4 | 121.0 | -43.6 | 0.449 |
| 4-3560 | 4-4000 | 0.855 | 306.6 | 60.8 | 42.25 | 1.234 | 99.8 | 0.527 | 2.002 | 331.4 | 527.1 | 0.947 | --- | -39.77 | 0.416 | 103.6 | 123.9 | -43.9 | 0.373 |
| 4-3560 | 4-4020 | 0.728 | 298.7 | 55.6 | 34.86 | 1.232 | 99.6 | 0.521 | 1.981 | 331.9 | 530.6 | 0.949 | --- | -32.71 | 0.411 | 99.9 | 125.0 | -43.2 | 0.320 |
| 4-3560 | 4-4040 | 0.637 | 294.4 | 50.5 | 29.49 | 1.230 | 99.5 | 0.517 | 1.966 | 332.0 | 533.9 | 0.949 | --- | -27.67 | 0.407 | 96.4 | 124.7 | -41.9 | 0.282 |
| 4-3560 | 4-4060 | 0.570 | 292.0 | 45.6 | 25.44 | 1.229 | 99.5 | 0.515 | 1.957 | 331.7 | 537.1 | 0.949 | --- | -23.97 | 0.406 | 93.1 | 123.5 | -40.3 | 0.255 |
| 4-3560 | 4-4080 | 0.521 | 290.8 | 41.0 | 22.29 | 1.229 | 99.7 | 0.514 | 1.951 | 331.2 | 540.0 | 0.947 | --- | -21.15 | 0.406 | 90.0 | 121.7 | -38.4 | 0.235 |
| 4-3560 | 4-4100 | 0.484 | 290.4 | 36.5 | 19.75 | 1.228 | 99.9 | 0.515 | 1.948 | 330.5 | 542.8 | 0.945 | 2.950 | -18.97 | 0.407 | 87.1 | 119.8 | -36.4 | 0.222 |
| 4-3560 | 4-4120 | 0.456 | 290.6 | 32.2 | 17.66 | 1.228 | 100.3 | 0.516 | 1.947 | 329.5 | 545.4 | 0.942 | 2.952 | -17.23 | 0.409 | 84.3 | 118.0 | -34.3 | 0.214 |
| 4-3560 | 4-4140 | 0.435 | 291.2 | 28.1 | 15.89 | 1.229 | 100.7 | 0.518 | 1.949 | 328.4 | 547.9 | 0.939 | 2.959 | -15.83 | 0.412 | 81.7 | 116.4 | -32.1 | 0.209 |
| 4-3560 | 4-4160 | 0.421 | 292.1 | 24.1 | 14.37 | 1.229 | 101.2 | 0.521 | 1.952 | 327.1 | 550.3 | 0.934 | 2.971 | -14.69 | 0.416 | 79.2 | 115.2 | -30.0 | 0.207 |
| 4-3560 | 4-4180 | 0.411 | 293.3 | 20.3 | 13.03 | 1.229 | 101.7 | 0.525 | 1.957 | 325.6 | 552.5 | 0.929 | 2.985 | -13.75 | 0.420 | 76.8 | 114.4 | -27.9 | 0.208 |
| 4-3560 | 4-4200 | 0.405 | 294.7 | 16.7 | 11.84 | 1.230 | 102.3 | 0.530 | 1.963 | 323.9 | 554.6 | 0.923 | 3.003 | -12.96 | 0.425 | 74.6 | 114.1 | -25.9 | 0.211 |
| 4-3560 | 4-4220 | 0.403 | 296.4 | 13.2 | 10.77 | 1.231 | 103.0 | 0.535 | 1.970 | 322.1 | 556.7 | 0.916 | 3.024 | -12.31 | 0.431 | 72.5 | 114.2 | -24.0 | 0.215 |
| 4-3560 | 4-4240 | 0.404 | 298.2 | 9.9 | 9.78 | 1.232 | 103.8 | 0.541 | 1.978 | 320.1 | 558.5 | 0.908 | 3.048 | -11.76 | 0.437 | 70.6 | 114.7 | -22.3 | 0.221 |
| 4-3560 | 4-4260 | 0.408 | 300.1 | 6.8 | 8.86 | 1.233 | 104.6 | 0.547 | 1.987 | 318.0 | 560.3 | 0.899 | 3.074 | -11.31 | 0.443 | 68.7 | 115.6 | -20.8 | 0.228 |
| 4-3560 | 4-4280 | 0.415 | 302.2 | 4.0 | 8.00 | 1.234 | 105.5 | 0.555 | 1.996 | 315.8 | 562.0 | 0.889 | 3.103 | -10.94 | 0.449 | 66.8 | 116.9 | -19.4 | 0.237 |
| 4-3560 | 4-4300 | 0.424 | 304.4 | 1.3 | 7.19 | 1.234 | 106.5 | 0.563 | 2.006 | 313.3 | 563.6 | 0.877 | 3.134 | -10.63 | 0.456 | 65.1 | 118.6 | -18.1 | 0.246 |
| 4-3560 | 4-4320 | 0.436 | 306.6 | -1.1 | 6.40 | 1.236 | 107.5 | 0.571 | 2.016 | 310.7 | 565.0 | 0.864 | 3.168 | -10.39 | 0.463 | 63.4 | 120.5 | -17.0 | 0.256 |
| 4-3560 | 4-4340 | 0.451 | 309.0 | -3.4 | 5.64 | 1.237 | 108.6 | 0.581 | 2.027 | 308.0 | 566.4 | 0.849 | 3.204 | -10.21 | 0.470 | 61.7 | 122.8 | -15.9 | 0.267 |
| 4-3560 | 4-4360 | 0.468 | 311.4 | -5.3 | 4.89 | 1.238 | 109.9 | 0.591 | 2.038 | 305.1 | 567.6 | 0.833 | 3.243 | -10.09 | 0.477 | 60.1 | 125.2 | -15.0 | 0.279 |
| 4-3560 | 4-4380 | 0.488 | 313.9 | -7.1 | 4.14 | 1.239 | 111.2 | 0.603 | 2.049 | 302.0 | 568.7 | 0.814 | 3.284 | -10.02 | 0.484 | 58.5 | 128.0 | -14.2 | 0.292 |
| 4-3560 | 4-4400 | 0.511 | 316.4 | -8.7 | 3.40 | 1.240 | 112.6 | 0.615 | 2.061 | 298.7 | 569.6 | 0.793 | 3.329 | -10.00 | 0.491 | 56.8 | 130.9 | -13.5 | 0.306 |
| 4-3560 | 4-4420 | 0.536 | 319.0 | -10.0 | 2.64 | 1.241 | 114.1 | 0.628 | 2.073 | 295.3 | 570.4 | 0.770 | 3.376 | -10.04 | 0.498 | 55.2 | 134.1 | -12.8 | 0.321 |
| 4-3560 | 4-4440 | 0.565 | 321.6 | -11.2 | 1.87 | 1.242 | 115.8 | 0.643 | 2.085 | 291.6 | 571.1 | 0.745 | 3.426 | -10.14 | 0.505 | 53.5 | 137.5 | -12.2 | 0.337 |
| 4-3560 | 4-4460 | 0.596 | 324.3 | -12.1 | 1.06 | 1.243 | 117.6 | 0.659 | 2.098 | 287.7 | 571.6 | 0.716 | 3.480 | -10.30 | 0.512 | 51.8 | 141.1 | -11.7 | 0.355 |
| 4-3560 | 4-4480 | 0.630 | 326.9 | -12.9 | 0.22 | 1.245 | 119.5 | 0.676 | 2.111 | 283.6 | 571.9 | 0.684 | 3.538 | -10.54 | 0.519 | 50.0 | 144.9 | -11.2 | 0.374 |
| 4-3570 | 4-3750 | 0.646 | 305.5 | -39.9 | -8.76 | 1.503 | 106.6 | 1.221-4.148 | | 329.9 | 464.5 | 0.918 | --- | 14.78 | 0.961 | 149.6 | 137.5 | 8.7 | 0.817 |
| 4-3570 | 4-3770 | 0.574 | 306.4 | -45.5 | -10.21 | 1.436 | 104.5 | 1.04122.532 | | 331.6 | 469.9 | 0.931 | --- | 15.83 | 0.851 | 146.6 | 138.7 | 10.4 | 0.707 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3570 | 4-3790 | 0.526 | 307.9 | -51.9 | -11.87 | 1.386 | 102.6 | 0.910 | 10.407 | 333.5 | 475.4 | 0.942 | --- | 17.10 | 0.763 | 143.4 | 139.6 | 12.5 | 0.619 |
| 4-3570 | 4-3810 | 0.500 | 310.8 | -59.1 | -13.81 | 1.349 | 100.9 | 0.811 | 5.030 | 335.5 | 481.0 | 0.951 | --- | 18.67 | 0.691 | 140.0 | 140.2 | 15.0 | 0.549 |
| 4-3570 | 4-3830 | 0.493 | 316.7 | -66.6 | -16.13 | 1.320 | 99.5 | 0.736 | 3.634 | 337.5 | 486.5 | 0.959 | --- | 20.62 | 0.633 | 136.5 | 140.3 | 18.2 | 0.492 |
| 4-3570 | 4-3850 | 0.507 | 329.9 | -73.5 | -18.96 | 1.298 | 98.3 | 0.679 | 3.006 | 339.5 | 491.9 | 0.966 | --- | 23.08 | 0.584 | 132.7 | 139.8 | 22.0 | 0.450 |
| 4-3570 | 4-3870 | 0.543 | 359.2 | -78.0 | -22.50 | 1.281 | 97.2 | 0.634 | 2.657 | 341.5 | 497.2 | 0.971 | --- | 26.27 | 0.545 | 128.9 | 138.5 | 26.5 | 0.421 |
| 4-3570 | 4-3890 | 0.604 | 38.2 | -76.9 | -27.08 | 1.268 | 96.2 | 0.600 | 2.440 | 343.3 | 502.3 | 0.976 | --- | 30.50 | 0.512 | 124.9 | 136.0 | 31.6 | 0.407 |
| 4-3570 | 4-3910 | 0.699 | 60.4 | -70.8 | -33.19 | 1.258 | 95.4 | 0.573 | 2.295 | 345.1 | 507.3 | 0.979 | --- | 36.27 | 0.486 | 120.9 | 132.0 | 36.8 | 0.412 |
| 4-3570 | 4-3930 | 0.839 | 69.8 | -62.6 | -41.62 | 1.250 | 94.6 | 0.553 | 2.195 | 347.1 | 512.0 | 0.982 | --- | 44.35 | 0.465 | 116.9 | 126.4 | 41.0 | 0.442 |
| 4-3570 | 4-3950 | 1.037 | 73.6 | -52.7 | -53.43 | 1.244 | 93.8 | 0.536 | 2.124 | 349.2 | 516.5 | 0.985 | --- | 55.83 | 0.448 | 112.8 | 119.7 | 42.8 | 0.503 |
| 4-3570 | 4-3970 | 1.298 | 74.9 | -41.3 | -69.58 | 1.239 | 92.8 | 0.523 | 2.072 | 351.9 | 520.9 | 0.988 | --- | 71.64 | 0.435 | 108.7 | 113.7 | 40.9 | 0.597 |
| 4-3570 | 4-4010 | 1.324 | 3.2 | 73.5 | 71.27 | 1.233 | 98.2 | 0.521 | 2.007 | 336.1 | 527.2 | 0.962 | --- | -69.90 | 0.418 | 103.2 | 116.7 | -41.5 | 0.576 |
| 4-3570 | 4-4030 | 1.069 | 326.7 | 72.6 | 55.49 | 1.231 | 97.5 | 0.514 | 1.987 | 337.9 | 530.8 | 0.967 | --- | -54.45 | 0.413 | 99.5 | 120.3 | -45.0 | 0.469 |
| 4-3570 | 4-4050 | 0.874 | 306.3 | 67.3 | 44.00 | 1.229 | 97.1 | 0.509 | 1.974 | 338.8 | 534.2 | 0.969 | --- | -43.30 | 0.410 | 96.0 | 122.5 | -46.1 | 0.388 |
| 4-3570 | 4-4070 | 0.732 | 297.2 | 61.1 | 35.80 | 1.228 | 97.0 | 0.507 | 1.965 | 339.1 | 537.3 | 0.969 | --- | -35.46 | 0.409 | 92.8 | 123.2 | -45.7 | 0.331 |
| 4-3570 | 4-4090 | 0.630 | 293.1 | 55.1 | 29.84 | 1.228 | 97.1 | 0.506 | 1.960 | 338.9 | 540.3 | 0.969 | 2.950 | -29.84 | 0.409 | 89.7 | 122.7 | -44.4 | 0.291 |
| 4-3570 | 4-4110 | 0.556 | 291.2 | 49.5 | 25.36 | 1.228 | 97.2 | 0.506 | 1.957 | 338.4 | 543.1 | 0.968 | 2.947 | -25.72 | 0.411 | 86.8 | 121.5 | -42.5 | 0.263 |
| 4-3570 | 4-4130 | 0.501 | 290.7 | 44.1 | 21.89 | 1.228 | 97.5 | 0.507 | 1.958 | 337.6 | 545.8 | 0.966 | 2.949 | -22.61 | 0.413 | 84.2 | 120.2 | -40.3 | 0.244 |
| 4-3570 | 4-4150 | 0.460 | 291.0 | 38.9 | 19.10 | 1.228 | 97.9 | 0.508 | 1.960 | 336.5 | 548.3 | 0.964 | 2.956 | -20.19 | 0.417 | 81.6 | 118.8 | -37.9 | 0.232 |
| 4-3570 | 4-4170 | 0.429 | 291.8 | 34.0 | 16.82 | 1.228 | 98.3 | 0.511 | 1.963 | 335.3 | 550.6 | 0.961 | 2.966 | -18.29 | 0.421 | 79.3 | 117.7 | -35.3 | 0.224 |
| 4-3570 | 4-4190 | 0.407 | 293.1 | 29.2 | 14.89 | 1.229 | 98.8 | 0.514 | 1.969 | 333.8 | 552.9 | 0.957 | 2.981 | -16.76 | 0.425 | 77.1 | 116.9 | -32.8 | 0.220 |
| 4-3570 | 4-4210 | 0.391 | 294.7 | 24.6 | 13.24 | 1.229 | 99.4 | 0.518 | 1.975 | 332.2 | 555.0 | 0.952 | 2.998 | -15.51 | 0.431 | 75.0 | 116.6 | -30.4 | 0.219 |
| 4-3570 | 4-4230 | 0.381 | 296.6 | 20.2 | 11.80 | 1.230 | 100.0 | 0.522 | 1.982 | 330.5 | 557.1 | 0.947 | 3.017 | -14.48 | 0.436 | 73.0 | 116.7 | -28.2 | 0.221 |
| 4-3570 | 4-4250 | 0.375 | 298.8 | 16.0 | 10.51 | 1.231 | 100.7 | 0.527 | 1.990 | 328.6 | 559.0 | 0.941 | 3.040 | -13.63 | 0.442 | 71.1 | 117.2 | -26.1 | 0.224 |
| 4-3570 | 4-4270 | 0.373 | 301.1 | 12.1 | 9.35 | 1.232 | 101.5 | 0.533 | 1.999 | 326.5 | 560.8 | 0.934 | 3.064 | -12.92 | 0.448 | 69.3 | 118.0 | -24.2 | 0.229 |
| 4-3570 | 4-4290 | 0.376 | 303.5 | 8.4 | 8.29 | 1.233 | 102.4 | 0.539 | 2.009 | 324.3 | 562.5 | 0.926 | 3.091 | -12.33 | 0.455 | 67.6 | 119.3 | -22.4 | 0.235 |
| 4-3570 | 4-4310 | 0.381 | 306.1 | 5.1 | 7.31 | 1.234 | 103.3 | 0.546 | 2.018 | 321.9 | 564.2 | 0.917 | 3.120 | -11.84 | 0.461 | 66.0 | 120.9 | -20.9 | 0.243 |
| 4-3570 | 4-4330 | 0.389 | 308.8 | 2.0 | 6.38 | 1.235 | 104.2 | 0.553 | 2.029 | 319.4 | 565.7 | 0.906 | 3.152 | -11.44 | 0.468 | 64.4 | 122.8 | -19.5 | 0.251 |
| 4-3570 | 4-4350 | 0.401 | 311.5 | -0.8 | 5.51 | 1.236 | 105.3 | 0.562 | 2.040 | 316.7 | 567.1 | 0.894 | 3.185 | -11.12 | 0.475 | 62.9 | 124.9 | -18.2 | 0.261 |
| 4-3570 | 4-4370 | 0.415 | 314.4 | -3.2 | 4.66 | 1.237 | 106.4 | 0.571 | 2.051 | 313.8 | 568.4 | 0.881 | 3.221 | -10.86 | 0.482 | 61.4 | 127.3 | -17.1 | 0.271 |
| 4-3570 | 4-4390 | 0.432 | 317.2 | -5.4 | 3.85 | 1.238 | 107.7 | 0.580 | 2.062 | 310.9 | 569.6 | 0.865 | 3.259 | -10.67 | 0.489 | 60.0 | 130.0 | -16.1 | 0.283 |
| 4-3570 | 4-4410 | 0.452 | 320.1 | -7.2 | 3.04 | 1.239 | 109.0 | 0.591 | 2.074 | 307.7 | 570.6 | 0.848 | 3.300 | -10.55 | 0.496 | 58.5 | 132.9 | -15.2 | 0.295 |
| 4-3570 | 4-4430 | 0.474 | 323.0 | -8.8 | 2.24 | 1.240 | 110.4 | 0.603 | 2.086 | 304.3 | 571.6 | 0.829 | 3.344 | -10.48 | 0.503 | 57.0 | 136.0 | -14.4 | 0.308 |
| 4-3570 | 4-4450 | 0.499 | 325.9 | -10.1 | 1.44 | 1.241 | 111.9 | 0.615 | 2.098 | 300.8 | 572.4 | 0.807 | 3.390 | -10.47 | 0.510 | 55.5 | 139.3 | -13.7 | 0.323 |
| 4-3570 | 4-4470 | 0.527 | 328.8 | -11.2 | 0.63 | 1.243 | 113.5 | 0.629 | 2.111 | 297.1 | 573.0 | 0.782 | 3.440 | -10.52 | 0.517 | 54.0 | 142.8 | -13.0 | 0.338 |
| 4-3570 | 4-4490 | 0.558 | 331.7 | -12.1 | -0.21 | 1.244 | 115.3 | 0.644 | 2.124 | 293.1 | 573.5 | 0.755 | 3.493 | -10.64 | 0.524 | 52.4 | 146.5 | -12.5 | 0.355 |
| 4-3580 | 4-3760 | 0.583 | 306.3 | -40.5 | -8.10 | 1.488 | 102.3 | 1.193 | -4.944 | 337.5 | 464.0 | 0.953 | --- | 13.24 | 0.940 | 148.4 | 139.8 | 8.2 | 0.788 |
| 4-3580 | 4-3780 | 0.516 | 306.2 | -45.9 | -9.24 | 1.424 | 100.3 | 1.015 | 63.382 | 339.5 | 469.7 | 0.962 | --- | 13.94 | 0.834 | 145.4 | 141.0 | 9.6 | 0.681 |
| 4-3580 | 4-3800 | 0.470 | 306.1 | -52.1 | -10.49 | 1.377 | 98.6 | 0.886 | 8.510 | 341.6 | 475.4 | 0.970 | --- | 14.79 | 0.748 | 142.3 | 141.9 | 11.3 | 0.595 |
| 4-3580 | 4-3820 | 0.443 | 306.5 | -58.8 | -11.90 | 1.341 | 97.2 | 0.790 | 4.650 | 343.8 | 481.2 | 0.976 | --- | 15.80 | 0.679 | 138.8 | 142.6 | 13.4 | 0.525 |
| 4-3580 | 4-3840 | 0.431 | 308.1 | -65.8 | -13.52 | 1.313 | 95.9 | 0.718 | 3.478 | 345.9 | 486.9 | 0.981 | --- | 17.02 | 0.622 | 135.3 | 142.9 | 15.9 | 0.468 |
| 4-3580 | 4-3860 | 0.433 | 312.5 | -72.7 | -15.39 | 1.292 | 94.8 | 0.663 | 2.923 | 348.0 | 492.5 | 0.985 | --- | 18.51 | 0.576 | 131.5 | 142.8 | 18.9 | 0.422 |
| 4-3580 | 4-3880 | 0.449 | 324.8 | -79.1 | -17.61 | 1.276 | 93.9 | 0.621 | 2.607 | 349.9 | 498.0 | 0.988 | --- | 20.36 | 0.538 | 127.7 | 142.1 | 22.5 | 0.386 |
| 4-3580 | 4-3900 | 0.480 | 1.8 | -83.3 | -20.31 | 1.264 | 93.1 | 0.589 | 2.408 | 351.7 | 503.2 | 0.990 | --- | 22.69 | 0.507 | 123.7 | 140.8 | 26.7 | 0.362 |
| 4-3580 | 4-3920 | 0.527 | 53.0 | -81.5 | -23.66 | 1.254 | 92.4 | 0.564 | 2.275 | 353.3 | 508.1 | 0.991 | --- | 25.69 | 0.482 | 119.8 | 138.6 | 31.4 | 0.348 |
| 4-3580 | 4-3940 | 0.594 | 73.4 | -75.9 | -27.96 | 1.247 | 91.9 | 0.545 | 2.182 | 354.7 | 512.8 | 0.992 | --- | 29.63 | 0.462 | 115.8 | 135.4 | 36.3 | 0.348 |
| 4-3580 | 4-3960 | 0.689 | 80.5 | -69.1 | -33.64 | 1.241 | 91.4 | 0.531 | 2.115 | 356.1 | 517.3 | 0.993 | --- | 34.96 | 0.446 | 111.8 | 131.1 | 40.7 | 0.364 |
| 4-3580 | 4-3980 | 0.822 | 83.3 | -61.3 | -41.40 | 1.236 | 90.9 | 0.519 | 2.067 | 357.4 | 521.6 | 0.993 | --- | 42.37 | 0.434 | 107.9 | 125.9 | 44.0 | 0.401 |
| 4-3580 | 4-4000 | 1.007 | 84.3 | -52.3 | -52.25 | 1.233 | 90.4 | 0.511 | 2.032 | 359.0 | 525.6 | 0.994 | --- | 52.88 | 0.425 | 104.1 | 120.6 | 45.0 | 0.465 |
| 4-3580 | 4-4020 | 1.252 | 84.6 | -41.7 | -67.23 | 1.231 | 89.7 | 0.505 | 2.007 | 1.0 | 169.5 | --- | --- | 67.51 | 0.419 | 100.3 | 116.6 | 42.8 | 0.560 |
| 4-3580 | 4-4060 | 1.359 | 27.6 | 78.8 | 74.02 | 1.228 | 95.5 | 0.504 | 1.977 | 343.4 | 534.4 | 0.980 | --- | -74.43 | 0.412 | 95.6 | 119.1 | -41.0 | 0.602 |
| 4-3580 | 4-4080 | 1.090 | 326.6 | 79.1 | 57.20 | 1.227 | 94.9 | 0.501 | 1.969 | 345.2 | 537.7 | 0.983 | --- | -57.96 | 0.412 | 92.3 | 121.6 | -45.3 | 0.491 |
| 4-3580 | 4-4100 | 0.878 | 300.1 | 72.1 | 44.70 | 1.226 | 94.7 | 0.499 | 1.965 | 345.9 | 540.7 | 0.984 | 2.947 | -45.81 | 0.412 | 89.3 | 122.9 | -46.9 | 0.405 |
| 4-3580 | 4-4120 | 0.724 | 292.2 | 64.7 | 35.77 | 1.226 | 94.7 | 0.499 | 1.964 | 345.9 | 543.6 | 0.984 | 2.944 | -37.23 | 0.414 | 86.4 | 123.0 | -46.7 | 0.343 |
| 4-3580 | 4-4140 | 0.613 | 289.5 | 57.8 | 29.31 | 1.226 | 94.9 | 0.500 | 1.965 | 345.4 | 546.2 | 0.983 | 2.947 | -31.13 | 0.417 | 83.8 | 122.2 | -45.3 | 0.302 |
| 4-3580 | 4-4160 | 0.532 | 289.0 | 51.3 | 24.48 | 1.227 | 95.1 | 0.501 | 1.968 | 344.6 | 548.8 | 0.982 | 2.954 | -26.67 | 0.421 | 81.4 | 121.2 | -43.1 | 0.273 |
| 4-3580 | 4-4180 | 0.473 | 289.6 | 45.2 | 20.77 | 1.227 | 95.5 | 0.503 | 1.972 | 343.4 | 551.1 | 0.980 | 2.964 | -23.33 | 0.425 | 79.1 | 120.2 | -40.5 | 0.254 |
| 4-3580 | 4-4200 | 0.430 | 290.9 | 39.4 | 17.81 | 1.228 | 96.0 | 0.506 | 1.978 | 342.1 | 553.4 | 0.978 | 2.978 | -20.75 | 0.430 | 77.0 | 119.5 | -37.8 | 0.242 |
| 4-3580 | 4-4220 | 0.398 | 292.8 | 33.7 | 15.39 | 1.228 | 96.5 | 0.509 | 1.985 | 340.6 | 555.5 | 0.975 | 2.995 | -18.73 | 0.435 | 75.0 | 119.1 | -35.0 | 0.235 |
| 4-3580 | 4-4240 | 0.375 | 295.0 | 28.3 | 13.37 | 1.229 | 97.1 | 0.513 | 1.992 | 338.9 | 557.6 | 0.971 | 3.014 | -17.11 | 0.441 | 73.2 | 119.1 | -32.4 | 0.232 |
| 4-3580 | 4-4260 | 0.359 | 297.5 | 23.1 | 11.64 | 1.230 | 97.8 | 0.517 | 2.001 | 337.0 | 559.5 | 0.967 | 3.035 | -15.79 | 0.447 | 71.4 | 119.5 | -29.8 | 0.232 |
| 4-3580 | 4-4280 | 0.349 | 300.2 | 18.2 | 10.13 | 1.231 | 98.5 | 0.522 | 2.010 | 334.9 | 561.4 | 0.962 | 3.058 | -14.72 | 0.453 | 69.7 | 120.3 | -27.5 | 0.234 |
| 4-3580 | 4-4300 | 0.345 | 303.2 | 13.6 | 8.79 | 1.232 | 99.3 | 0.527 | 2.020 | 332.8 | 563.1 | 0.956 | 3.084 | -13.83 | 0.460 | 68.1 | 121.5 | -25.4 | 0.237 |
| 4-3580 | 4-4320 | 0.345 | 306.3 | 9.3 | 7.59 | 1.233 | 100.2 | 0.533 | 2.030 | 330.4 | 564.8 | 0.949 | 3.111 | -13.09 | 0.467 | 66.6 | 123.1 | -23.5 | 0.243 |
| 4-3580 | 4-4340 | 0.349 | 309.5 | 5.4 | 6.48 | 1.234 | 101.1 | 0.539 | 2.041 | 327.9 | 566.3 | 0.941 | 3.140 | -12.48 | 0.473 | 65.2 | 124.9 | -21.8 | 0.249 |
| 4-3580 | 4-4360 | 0.356 | 312.8 | 1.9 | 5.46 | 1.235 | 102.1 | 0.546 | 2.051 | 325.3 | 567.8 | 0.931 | 3.172 | -11.98 | 0.480 | 63.8 | 127.0 | -20.3 | 0.257 |
| 4-3580 | 4-4380 | 0.367 | 316.2 | -1.1 | 4.51 | 1.236 | 103.2 | 0.554 | 2.063 | 322.5 | 569.2 | 0.921 | 3.205 | -11.57 | 0.487 | 62.4 | 129.4 | -19.0 | 0.266 |
| 4-3580 | 4-4400 | 0.381 | 319.6 | -3.8 | 3.60 | 1.237 | 104.3 | 0.562 | 2.074 | 319.6 | 570.4 | 0.908 | 3.240 | -11.24 | 0.494 | 61.1 | 132.0 | -17.8 | 0.276 |
| 4-3580 | 4-4420 | 0.398 | 322.9 | -6.0 | 2.72 | 1.238 | 105.5 | 0.571 | 2.086 | 316.5 | 571.6 | 0.894 | 3.278 | -10.98 | 0.501 | 59.8 | 134.9 | -16.7 | 0.287 |
| 4-3580 | 4-4440 | 0.418 | 326.3 | -7.9 | 1.88 | 1.239 | 106.9 | 0.581 | 2.099 | 313.2 | 572.6 | 0.879 | 3.318 | -10.79 | 0.508 | 58.5 | 137.9 | -15.8 | 0.298 |
| 4-3580 | 4-4460 | 0.440 | 329.6 | -9.4 | 1.04 | 1.240 | 108.3 | 0.592 | 2.111 | 309.8 | 573.5 | 0.861 | 3.361 | -10.67 | 0.515 | 57.1 | 141.2 | -14.9 | 0.311 |
| 4-3580 | 4-4480 | 0.465 | 332.8 | -10.6 | 0.21 | 1.242 | 109.8 | 0.604 | 2.124 | 306.1 | 574.3 | 0.840 | 3.407 | -10.61 | 0.522 | 55.8 | 144.6 | -14.1 | 0.325 |
| 4-3580 | 4-4500 | 0.493 | 336.0 | -11.6 | -0.63 | 1.243 | 111.4 | 0.618 | 2.136 | 302.3 | 574.9 | 0.817 | 3.456 | -10.62 | 0.528 | 54.4 | 148.2 | -13.5 | 0.340 |
| 4-3590 | 4-3750 | 0.614 | 305.8 | -37.2 | -6.86 | 1.554 | 99.6 | 1.397 | -2.450 | 343.6 | 458.4 | 0.973 | --- | 11.50 | 1.044 | 150.1 | 140.6 | 6.7 | 0.886 |
| 4-3590 | 4-3770 | 0.528 | 304.7 | -42.0 | -7.72 | 1.471 | 97.7 | 1.154 | -6.375 | 345.6 | 464.2 | 0.980 | --- | 11.88 | 0.915 | 147.3 | 141.8 | 7.7 | 0.757 |
| 4-3590 | 4-3790 | 0.467 | 303.1 | -47.5 | -8.64 | 1.410 | 96.0 | 0.982 | 55.224 | 347.9 | 470.1 | 0.986 | --- | 12.34 | 0.813 | 144.3 | 142.9 | 8.9 | 0.654 |
| 4-3590 | 4-3810 | 0.426 | 301.1 | -53.4 | -9.62 | 1.365 | 94.5 | 0.858 | 6.968 | 350.3 | 476.1 | 0.990 | --- | 12.90 | 0.730 | 141.1 | 143.8 | 10.4 | 0.570 |
| 4-3590 | 4-3830 | 0.401 | 298.8 | -59.7 | -10.70 | 1.331 | 93.2 | 0.766 | 4.253 | 352.6 | 482.1 | 0.993 | --- | 13.56 | 0.663 | 137.6 | 144.5 | 12.1 | 0.501 |
| 4-3590 | 4-3850 | 0.389 | 296.2 | -65.9 | -11.90 | 1.305 | 92.1 | 0.698 | 3.298 | 354.9 | 488.1 | 0.995 | --- | 14.35 | 0.609 | 134.0 | 144.8 | 14.1 | 0.445 |
| 4-3590 | 4-3870 | 0.387 | 293.6 | -72.1 | -13.24 | 1.286 | 91.1 | 0.647 | 2.822 | 357.1 | 493.8 | 0.996 | --- | 15.29 | 0.565 | 130.2 | 144.8 | 16.6 | 0.398 |
| 4-3590 | 4-3890 | 0.395 | 290.9 | -77.9 | -14.76 | 1.270 | 90.4 | 0.608 | 2.543 | 359.1 | 499.3 | 0.997 | --- | 16.44 | 0.528 | 126.3 | 144.3 | 19.5 | 0.361 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3590 | 4-3910 | 0.412 | 288.7 | -83.6 | -16.53 | 1.259 | 89.7 | 0.579 | 2.365 | 0.8 | 144.6 | --- | --- | 17.83 | 0.499 | 122.4 | 143.4 | 22.9 | 0.332 |
| 4-3590 | 4-3930 | 0.438 | 293.0 | -89.0 | -18.62 | 1.250 | 89.2 | 0.556 | 2.244 | 2.3 | 149.5 | --- | --- | 19.55 | 0.476 | 118.4 | 141.8 | 26.8 | 0.311 |
| 4-3590 | 4-3950 | 0.474 | 100.3 | -85.6 | -21.15 | 1.243 | 88.8 | 0.539 | 2.160 | 3.5 | 154.2 | --- | --- | 21.72 | 0.457 | 114.5 | 139.6 | 31.0 | 0.299 |
| 4-3590 | 4-3970 | 0.524 | 99.1 | -80.2 | -24.27 | 1.237 | 88.5 | 0.526 | 2.100 | 4.5 | 158.6 | --- | --- | 24.49 | 0.442 | 110.6 | 136.7 | 35.5 | 0.296 |
| 4-3590 | 4-3990 | 0.590 | 97.5 | -74.5 | -28.27 | 1.233 | 88.2 | 0.516 | 2.056 | 5.3 | 162.8 | --- | --- | 28.14 | 0.431 | 106.8 | 133.1 | 39.8 | 0.304 |
| 4-3590 | 4-4010 | 0.680 | 96.1 | -68.3 | -33.53 | 1.230 | 88.0 | 0.509 | 2.025 | 6.0 | 166.7 | --- | --- | 33.05 | 0.423 | 103.1 | 129.0 | 43.4 | 0.327 |
| 4-3590 | 4-4030 | 0.804 | 95.0 | -61.3 | -40.71 | 1.228 | 87.7 | 0.503 | 2.002 | 6.7 | 170.3 | --- | --- | 39.89 | 0.418 | 99.5 | 124.9 | 45.9 | 0.368 |
| 4-3590 | 4-4050 | 0.977 | 94.2 | -53.0 | -50.80 | 1.226 | 87.5 | 0.500 | 1.987 | 7.6 | 173.8 | --- | --- | 49.64 | 0.414 | 96.1 | 121.5 | 46.4 | 0.434 |
| 4-3590 | 4-4070 | 1.212 | 93.7 | -42.9 | -65.01 | 1.225 | 87.0 | 0.498 | 1.977 | 8.9 | 177.2 | --- | --- | 63.51 | 0.413 | 92.7 | 119.5 | 44.2 | 0.529 |
| 4-3590 | 4-4090 | 1.495 | 93.7 | -31.0 | -83.68 | 1.225 | 86.3 | 0.497 | 1.970 | 11.1 | 180.5 | --- | 2.950 | 81.83 | 0.413 | 89.5 | 119.4 | 39.0 | 0.649 |
| 4-3590 | 4-4110 | 1.380 | 68.8 | 82.2 | 75.74 | 1.224 | 93.2 | 0.496 | 1.968 | 350.5 | 541.1 | 0.992 | 2.943 | -77.93 | 0.414 | 88.9 | 123.1 | -40.3 | 0.626 |
| 4-3590 | 4-4130 | 1.094 | 305.9 | 84.2 | 57.69 | 1.224 | 92.6 | 0.495 | 1.967 | 352.1 | 544.1 | 0.993 | 2.941 | -60.22 | 0.416 | 86.0 | 124.6 | -45.1 | 0.509 |
| 4-3590 | 4-4150 | 0.865 | 286.6 | 74.5 | 44.19 | 1.224 | 92.5 | 0.495 | 1.969 | 352.5 | 546.8 | 0.994 | 2.945 | -47.07 | 0.420 | 83.4 | 124.8 | -47.1 | 0.417 |
| 4-3590 | 4-4170 | 0.699 | 284.4 | 65.7 | 34.62 | 1.225 | 92.6 | 0.496 | 1.973 | 352.2 | 549.4 | 0.994 | 2.953 | -37.86 | 0.424 | 81.0 | 124.2 | -46.8 | 0.352 |
| 4-3590 | 4-4190 | 0.581 | 284.8 | 57.9 | 27.78 | 1.225 | 92.8 | 0.498 | 1.978 | 351.4 | 551.8 | 0.993 | 2.964 | -31.38 | 0.428 | 78.8 | 123.3 | -45.0 | 0.309 |
| 4-3590 | 4-4210 | 0.497 | 286.4 | 50.8 | 22.74 | 1.226 | 93.2 | 0.500 | 1.985 | 350.3 | 554.0 | 0.992 | 2.978 | -26.70 | 0.433 | 76.7 | 122.4 | -42.5 | 0.281 |
| 4-3590 | 4-4230 | 0.436 | 288.5 | 44.0 | 18.89 | 1.227 | 93.7 | 0.503 | 1.992 | 348.9 | 556.2 | 0.990 | 2.994 | -23.23 | 0.439 | 74.8 | 121.8 | -39.6 | 0.262 |
| 4-3590 | 4-4250 | 0.392 | 291.1 | 37.4 | 15.86 | 1.228 | 94.3 | 0.506 | 2.000 | 347.2 | 558.2 | 0.988 | 3.013 | -20.58 | 0.445 | 73.1 | 121.6 | -36.6 | 0.251 |
| 4-3590 | 4-4270 | 0.361 | 294.1 | 31.1 | 13.39 | 1.229 | 94.9 | 0.509 | 2.009 | 345.4 | 560.1 | 0.986 | 3.033 | -18.50 | 0.451 | 71.4 | 121.9 | -33.6 | 0.245 |
| 4-3590 | 4-4290 | 0.339 | 297.4 | 25.1 | 11.34 | 1.230 | 95.6 | 0.513 | 2.019 | 343.4 | 562.0 | 0.982 | 3.056 | -16.86 | 0.458 | 69.9 | 122.6 | -30.9 | 0.243 |
| 4-3590 | 4-4310 | 0.326 | 300.9 | 19.3 | 9.59 | 1.231 | 96.4 | 0.518 | 2.029 | 341.2 | 563.7 | 0.979 | 3.080 | -15.53 | 0.464 | 68.4 | 123.7 | -28.4 | 0.243 |
| 4-3590 | 4-4330 | 0.318 | 304.7 | 14.0 | 8.07 | 1.232 | 97.2 | 0.523 | 2.040 | 338.9 | 565.4 | 0.974 | 3.106 | -14.44 | 0.471 | 67.0 | 125.2 | -26.1 | 0.246 |
| 4-3590 | 4-4350 | 0.316 | 308.6 | 9.1 | 6.72 | 1.233 | 98.1 | 0.528 | 2.051 | 336.5 | 567.0 | 0.968 | 3.134 | -13.55 | 0.478 | 65.6 | 127.0 | -24.0 | 0.250 |
| 4-3590 | 4-4370 | 0.319 | 312.6 | 4.7 | 5.51 | 1.234 | 99.0 | 0.534 | 2.062 | 333.9 | 568.5 | 0.961 | 3.163 | -12.81 | 0.485 | 64.4 | 129.1 | -22.2 | 0.256 |
| 4-3590 | 4-4390 | 0.326 | 316.6 | 0.8 | 4.41 | 1.235 | 100.1 | 0.540 | 2.074 | 331.1 | 569.9 | 0.953 | 3.194 | -12.21 | 0.492 | 63.1 | 131.4 | -20.6 | 0.263 |
| 4-3590 | 4-4410 | 0.336 | 320.7 | -2.4 | 3.39 | 1.236 | 101.1 | 0.548 | 2.086 | 328.2 | 571.2 | 0.944 | 3.228 | -11.71 | 0.499 | 61.9 | 134.0 | -19.2 | 0.272 |
| 4-3590 | 4-4430 | 0.350 | 324.7 | -5.2 | 2.43 | 1.237 | 102.3 | 0.555 | 2.098 | 325.1 | 572.4 | 0.933 | 3.263 | -11.31 | 0.506 | 60.7 | 136.8 | -17.9 | 0.281 |
| 4-3590 | 4-4450 | 0.367 | 328.6 | -7.4 | 1.52 | 1.238 | 103.5 | 0.564 | 2.110 | 321.9 | 573.6 | 0.920 | 3.300 | -10.99 | 0.513 | 59.5 | 139.8 | -16.8 | 0.291 |
| 4-3590 | 4-4470 | 0.387 | 332.5 | -9.2 | 0.64 | 1.239 | 104.9 | 0.573 | 2.123 | 318.5 | 574.6 | 0.906 | 3.340 | -10.74 | 0.519 | 58.4 | 143.0 | -15.8 | 0.302 |
| 4-3590 | 4-4490 | 0.410 | 336.2 | -10.6 | -0.21 | 1.240 | 106.3 | 0.584 | 2.135 | 315.0 | 575.4 | 0.889 | 3.382 | -10.57 | 0.526 | 57.2 | 146.4 | -14.9 | 0.314 |
| 4-3590 | 4-4510 | 0.435 | 339.9 | -11.6 | -1.05 | 1.242 | 107.8 | 0.595 | 2.148 | 311.3 | 576.2 | 0.870 | 3.427 | -10.46 | 0.533 | 55.9 | 150.0 | -14.2 | 0.328 |
| 4-3600 | 4-3760 | 0.562 | 302.6 | -39.3 | -6.80 | 1.530 | 94.5 | 1.337 | -2.949 | 352.1 | 459.0 | 0.994 | --- | 10.37 | 1.010 | 149.1 | 142.4 | 6.3 | 0.848 |
| 4-3600 | 4-3780 | 0.485 | 299.9 | -44.2 | -7.52 | 1.451 | 92.9 | 1.105 | -9.470 | 354.5 | 465.1 | 0.997 | --- | 10.61 | 0.886 | 146.3 | 143.5 | 7.2 | 0.724 |
| 4-3600 | 4-3800 | 0.432 | 296.3 | -49.4 | -8.28 | 1.394 | 91.4 | 0.943 | 17.548 | 357.0 | 471.3 | 0.999 | --- | 10.90 | 0.788 | 143.2 | 144.5 | 8.2 | 0.625 |
| 4-3600 | 4-3820 | 0.397 | 291.8 | -54.8 | -9.08 | 1.352 | 90.1 | 0.826 | 5.760 | 359.7 | 477.6 | 0.999 | --- | 11.25 | 0.709 | 139.9 | 145.3 | 9.4 | 0.544 |
| 4-3600 | 4-3840 | 0.376 | 286.3 | -60.1 | -9.94 | 1.320 | 89.0 | 0.741 | 3.864 | 2.3 | 123.9 | --- | --- | 11.67 | 0.645 | 136.4 | 145.8 | 10.9 | 0.477 |
| 4-3600 | 4-3860 | 0.366 | 280.0 | -65.1 | -10.86 | 1.296 | 88.1 | 0.679 | 3.105 | 4.7 | 129.9 | --- | --- | 12.18 | 0.593 | 132.7 | 146.1 | 12.6 | 0.422 |
| 4-3600 | 4-3880 | 0.364 | 272.6 | -69.6 | -11.86 | 1.277 | 87.3 | 0.632 | 2.707 | 7.0 | 135.8 | --- | --- | 12.78 | 0.551 | 128.8 | 146.0 | 14.6 | 0.376 |
| 4-3600 | 4-3900 | 0.368 | 263.8 | -73.6 | -12.97 | 1.263 | 86.7 | 0.597 | 2.467 | 8.9 | 141.4 | --- | --- | 13.51 | 0.517 | 124.9 | 145.5 | 17.0 | 0.339 |
| 4-3600 | 4-3920 | 0.378 | 252.7 | -77.2 | -14.21 | 1.252 | 86.2 | 0.570 | 2.311 | 10.6 | 146.6 | --- | --- | 14.37 | 0.489 | 120.9 | 144.6 | 19.7 | 0.308 |
| 4-3600 | 4-3940 | 0.394 | 237.1 | -80.3 | -15.62 | 1.244 | 85.8 | 0.550 | 2.205 | 11.9 | 151.5 | --- | --- | 15.42 | 0.467 | 116.9 | 143.2 | 22.9 | 0.285 |
| 4-3600 | 4-3960 | 0.415 | 212.9 | -82.6 | -17.25 | 1.238 | 85.5 | 0.535 | 2.130 | 13.0 | 156.1 | --- | --- | 16.69 | 0.450 | 113.0 | 141.3 | 26.4 | 0.268 |
| 4-3600 | 4-3980 | 0.442 | 178.4 | -83.2 | -19.18 | 1.233 | 85.3 | 0.524 | 2.077 | 13.8 | 160.4 | --- | --- | 18.27 | 0.437 | 109.1 | 138.9 | 30.2 | 0.257 |
| 4-3600 | 4-4000 | 0.478 | 147.0 | -81.6 | -21.50 | 1.229 | 85.2 | 0.515 | 2.039 | 14.3 | 164.4 | --- | --- | 20.25 | 0.427 | 105.3 | 136.0 | 34.1 | 0.254 |
| 4-3600 | 4-4020 | 0.524 | 127.6 | -78.4 | -24.39 | 1.226 | 85.1 | 0.509 | 2.012 | 14.6 | 168.2 | --- | --- | 22.79 | 0.420 | 101.7 | 132.7 | 38.0 | 0.259 |
| 4-3600 | 4-4040 | 0.586 | 116.5 | -74.0 | -28.06 | 1.225 | 85.1 | 0.504 | 1.993 | 14.7 | 171.7 | --- | --- | 26.13 | 0.415 | 98.3 | 129.4 | 41.6 | 0.273 |
| 4-3600 | 4-4060 | 0.668 | 109.8 | -68.8 | -32.92 | 1.223 | 85.1 | 0.501 | 1.980 | 14.8 | 175.0 | --- | --- | 30.66 | 0.413 | 95.0 | 126.2 | 44.6 | 0.299 |
| 4-3600 | 4-4080 | 0.783 | 105.7 | -62.5 | -39.58 | 1.222 | 85.1 | 0.499 | 1.972 | 14.8 | 178.1 | --- | --- | 37.00 | 0.412 | 91.9 | 123.7 | 46.6 | 0.342 |
| 4-3600 | 4-4100 | 0.946 | 103.4 | -54.6 | -49.08 | 1.222 | 85.0 | 0.498 | 1.968 | 15.0 | 181.1 | --- | 2.947 | 46.16 | 0.413 | 88.9 | 122.3 | 47.0 | 0.407 |
| 4-3600 | 4-4120 | 1.174 | 102.3 | -44.8 | -62.83 | 1.222 | 84.8 | 0.498 | 1.966 | 15.6 | 184.0 | --- | 2.946 | 59.59 | 0.415 | 86.0 | 122.5 | 45.2 | 0.503 |
| 4-3600 | 4-4140 | 1.463 | 102.3 | -32.7 | -81.77 | 1.222 | 84.3 | 0.499 | 1.968 | 17.0 | 186.9 | --- | 2.950 | 78.19 | 0.418 | 83.2 | 124.3 | 40.1 | 0.630 |
| 4-3600 | 4-4160 | 1.385 | 120.6 | 81.6 | 76.32 | 1.222 | 90.9 | 0.493 | 1.971 | 357.3 | 547.3 | 0.999 | 2.943 | -80.23 | 0.422 | 83.0 | 128.2 | -39.6 | 0.646 |
| 4-3600 | 4-4180 | 1.074 | 250.1 | 84.0 | 56.71 | 1.223 | 90.4 | 0.494 | 1.976 | 358.6 | 550.0 | 0.999 | 2.952 | -60.95 | 0.426 | 80.5 | 128.6 | -44.9 | 0.520 |
| 4-3600 | 4-4200 | 0.828 | 271.6 | 73.3 | 42.22 | 1.223 | 90.4 | 0.496 | 1.982 | 358.8 | 552.5 | 0.999 | 2.964 | -46.80 | 0.431 | 78.3 | 127.8 | -46.8 | 0.422 |
| 4-3600 | 4-4220 | 0.654 | 277.2 | 63.8 | 32.19 | 1.224 | 90.6 | 0.498 | 1.989 | 358.1 | 554.7 | 0.999 | 2.979 | -37.12 | 0.436 | 76.3 | 126.5 | -46.1 | 0.355 |
| 4-3600 | 4-4240 | 0.534 | 281.1 | 55.3 | 25.18 | 1.225 | 91.0 | 0.500 | 1.997 | 357.0 | 556.9 | 0.999 | 2.996 | -30.46 | 0.442 | 74.5 | 125.4 | -43.8 | 0.312 |
| 4-3600 | 4-4260 | 0.450 | 284.7 | 47.5 | 20.10 | 1.226 | 91.5 | 0.502 | 2.006 | 355.5 | 558.9 | 0.998 | 3.014 | -25.73 | 0.448 | 72.8 | 124.7 | -40.8 | 0.285 |
| 4-3600 | 4-4280 | 0.391 | 288.4 | 39.9 | 16.26 | 1.227 | 92.1 | 0.505 | 2.016 | 353.7 | 560.8 | 0.997 | 3.035 | -22.26 | 0.455 | 71.2 | 124.6 | -37.5 | 0.268 |
| 4-3600 | 4-4300 | 0.350 | 292.4 | 32.6 | 13.26 | 1.228 | 92.8 | 0.508 | 2.026 | 351.8 | 562.7 | 0.996 | 3.057 | -19.63 | 0.462 | 69.7 | 125.0 | -34.3 | 0.258 |
| 4-3600 | 4-4320 | 0.322 | 296.6 | 25.6 | 10.85 | 1.229 | 93.5 | 0.512 | 2.037 | 349.7 | 564.4 | 0.994 | 3.080 | -17.60 | 0.468 | 68.4 | 125.9 | -31.3 | 0.254 |
| 4-3600 | 4-4340 | 0.304 | 301.0 | 19.0 | 8.85 | 1.230 | 94.3 | 0.516 | 2.048 | 347.4 | 566.1 | 0.991 | 3.105 | -15.99 | 0.475 | 67.1 | 127.3 | -28.5 | 0.252 |
| 4-3600 | 4-4360 | 0.294 | 305.7 | 12.9 | 7.15 | 1.231 | 95.1 | 0.520 | 2.060 | 344.9 | 567.7 | 0.988 | 3.131 | -14.71 | 0.482 | 65.8 | 129.0 | -26.1 | 0.254 |
| 4-3600 | 4-4380 | 0.290 | 310.4 | 7.3 | 5.67 | 1.232 | 96.1 | 0.525 | 2.071 | 342.3 | 569.2 | 0.983 | 3.159 | -13.66 | 0.489 | 64.7 | 131.0 | -23.9 | 0.258 |
| 4-3600 | 4-4400 | 0.292 | 315.3 | 2.5 | 4.37 | 1.233 | 97.0 | 0.531 | 2.083 | 339.6 | 570.7 | 0.978 | 3.189 | -12.81 | 0.496 | 63.5 | 133.3 | -22.0 | 0.263 |
| 4-3600 | 4-4420 | 0.299 | 320.2 | -1.6 | 3.20 | 1.235 | 98.1 | 0.537 | 2.096 | 336.7 | 572.0 | 0.971 | 3.220 | -12.10 | 0.503 | 62.4 | 135.9 | -20.3 | 0.269 |
| 4-3600 | 4-4440 | 0.309 | 325.1 | -5.0 | 2.14 | 1.236 | 99.2 | 0.543 | 2.108 | 333.7 | 573.3 | 0.963 | 3.253 | -11.53 | 0.510 | 61.4 | 138.7 | -18.8 | 0.277 |
| 4-3600 | 4-4460 | 0.323 | 329.8 | -7.7 | 1.15 | 1.237 | 100.4 | 0.550 | 2.121 | 330.5 | 574.4 | 0.954 | 3.288 | -11.06 | 0.517 | 60.3 | 141.6 | -17.6 | 0.286 |
| 4-3600 | 4-4480 | 0.341 | 334.4 | -9.8 | 0.23 | 1.238 | 101.6 | 0.558 | 2.133 | 327.2 | 575.5 | 0.942 | 3.325 | -10.69 | 0.524 | 59.3 | 144.8 | -16.4 | 0.295 |
| 4-3600 | 4-4500 | 0.361 | 338.8 | -11.3 | -0.65 | 1.239 | 103.0 | 0.567 | 2.146 | 323.7 | 576.5 | 0.929 | 3.364 | -10.40 | 0.530 | 58.2 | 148.2 | -15.4 | 0.306 |
| 4-3600 | 4-4520 | 0.384 | 343.0 | -12.3 | -1.50 | 1.240 | 104.4 | 0.577 | 2.159 | 320.0 | 577.3 | 0.914 | 3.405 | -10.18 | 0.537 | 57.1 | 151.7 | -14.5 | 0.318 |
| 4-3610 | 4-3750 | 0.624 | 299.7 | -37.2 | -6.25 | 1.606 | 90.6 | 1.584 | -1.716 | 359.0 | 454.2 | 1.002 | --- | 9.17 | 1.125 | 150.8 | 142.8 | 5.2 | 0.959 |
| 4-3610 | 4-3770 | 0.526 | 296.1 | -41.5 | -6.86 | 1.503 | 89.2 | 1.265 | -3.780 | 1.4 | 100.4 | --- | --- | 9.25 | 0.972 | 148.2 | 143.8 | 5.8 | 0.808 |
| 4-3610 | 4-3790 | 0.460 | 291.4 | -46.1 | -7.48 | 1.430 | 87.9 | 1.050 | 20.106 | 4.2 | 106.8 | --- | --- | 9.37 | 0.853 | 145.3 | 144.8 | 6.6 | 0.689 |
| 4-3610 | 4-3810 | 0.417 | 285.5 | -50.6 | -8.12 | 1.377 | 86.6 | 0.900 | 10.000 | 7.1 | 113.4 | --- | --- | 9.53 | 0.759 | 142.1 | 145.6 | 7.5 | 0.594 |
| 4-3610 | 4-3830 | 0.389 | 278.8 | -54.8 | -8.78 | 1.337 | 85.6 | 0.794 | 4.824 | 10.0 | 120.0 | --- | --- | 9.73 | 0.684 | 138.7 | 146.2 | 8.5 | 0.517 |
| 4-3610 | 4-3850 | 0.373 | 271.5 | -58.5 | -9.46 | 1.308 | 84.7 | 0.717 | 3.502 | 12.8 | 126.5 | --- | --- | 9.99 | 0.623 | 135.1 | 146.6 | 9.7 | 0.453 |
| 4-3610 | 4-3870 | 0.365 | 264.0 | -61.6 | -10.19 | 1.285 | 83.9 | 0.660 | 2.910 | 15.3 | 132.7 | --- | --- | 10.30 | 0.574 | 131.3 | 146.7 | 11.1 | 0.400 |
| 4-3610 | 4-3890 | 0.363 | 256.5 | -64.3 | -10.96 | 1.268 | 83.3 | 0.619 | 2.584 | 17.6 | 138.6 | --- | --- | 10.68 | 0.534 | 127.4 | 146.5 | 12.8 | 0.355 |
| 4-3610 | 4-3910 | 0.365 | 249.1 | -66.7 | -11.79 | 1.255 | 82.8 | 0.588 | 2.382 | 19.5 | 144.1 | --- | --- | 11.13 | 0.502 | 123.4 | 145.9 | 14.7 | 0.319 |
| 4-3610 | 4-3930 | 0.372 | 241.8 | -68.9 | -12.69 | 1.245 | 82.4 | 0.565 | 2.250 | 21.0 | 149.3 | --- | --- | 11.66 | 0.477 | 119.3 | 144.8 | 16.9 | 0.289 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3610 | 4-3950 | 0.381 | 234.4 | -71.0 | -13.69 | 1.238 | 82.2 | 0.548 | 2.159 | 22.2 | 154.1 | --- | --- | 12.31 | 0.457 | 115.3 | 143.4 | 19.4 | 0.264 |
| 4-3610 | 4-3970 | 0.393 | 226.3 | -73.1 | -14.81 | 1.232 | 82.0 | 0.535 | 2.095 | 23.0 | 158.5 | --- | --- | 13.08 | 0.441 | 111.3 | 141.5 | 22.2 | 0.246 |
| 4-3610 | 4-3990 | 0.408 | 216.9 | -75.1 | -16.09 | 1.228 | 81.9 | 0.525 | 2.049 | 23.6 | 162.6 | --- | --- | 14.02 | 0.429 | 107.4 | 139.1 | 25.3 | 0.232 |
| 4-3610 | 4-4010 | 0.428 | 205.1 | -76.8 | -17.56 | 1.225 | 81.9 | 0.517 | 2.017 | 23.8 | 166.5 | --- | --- | 15.16 | 0.421 | 103.7 | 136.4 | 28.5 | 0.224 |
| 4-3610 | 4-4030 | 0.453 | 189.6 | -78.1 | -19.31 | 1.222 | 82.0 | 0.512 | 1.994 | 23.8 | 170.0 | --- | --- | 16.58 | 0.415 | 100.1 | 133.5 | 31.8 | 0.221 |
| 4-3610 | 4-4050 | 0.484 | 170.4 | -78.5 | -21.41 | 1.221 | 82.1 | 0.508 | 1.979 | 23.6 | 173.4 | --- | --- | 18.36 | 0.412 | 96.7 | 130.4 | 35.1 | 0.224 |
| 4-3610 | 4-4070 | 0.525 | 150.7 | -77.4 | -24.02 | 1.220 | 82.2 | 0.505 | 1.969 | 23.2 | 176.5 | --- | --- | 20.66 | 0.410 | 93.6 | 127.6 | 38.3 | 0.233 |
| 4-3610 | 4-4090 | 0.579 | 134.5 | -74.7 | -27.37 | 1.219 | 82.4 | 0.503 | 1.963 | 22.7 | 179.5 | --- | --- | 23.70 | 0.411 | 90.5 | 125.1 | 41.3 | 0.250 |
| 4-3610 | 4-4110 | 0.653 | 123.3 | -70.5 | -31.82 | 1.219 | 82.6 | 0.502 | 1.961 | 22.1 | 182.3 | --- | 2.945 | 27.84 | 0.412 | 87.7 | 123.3 | 43.9 | 0.277 |
| 4-3610 | 4-4130 | 0.758 | 116.1 | -64.8 | -38.01 | 1.219 | 82.8 | 0.501 | 1.962 | 21.6 | 184.9 | --- | 2.945 | 33.72 | 0.415 | 85.1 | 122.6 | 45.9 | 0.319 |
| 4-3610 | 4-4150 | 0.912 | 112.1 | -57.3 | -47.03 | 1.219 | 83.0 | 0.501 | 1.965 | 21.1 | 187.5 | --- | 2.950 | 42.43 | 0.418 | 82.6 | 123.3 | 46.8 | 0.384 |
| 4-3610 | 4-4170 | 1.137 | 110.4 | -47.4 | -60.62 | 1.220 | 83.0 | 0.502 | 1.969 | 21.1 | 190.0 | --- | 2.959 | 55.71 | 0.423 | 80.2 | 125.7 | 45.6 | 0.482 |
| 4-3610 | 4-4190 | 1.442 | 110.5 | -34.6 | -80.44 | 1.220 | 82.7 | 0.505 | 1.976 | 21.9 | 192.5 | --- | 2.973 | 75.22 | 0.427 | 77.9 | 129.6 | 40.8 | 0.618 |
| 4-3610 | 4-4230 | 1.025 | 234.2 | 78.8 | 53.86 | 1.222 | 88.4 | 0.497 | 1.991 | 4.8 | 195.4 | --- | 2.981 | -59.70 | 0.439 | 75.8 | 133.3 | -44.9 | 0.520 |
| 4-3610 | 4-4250 | 0.763 | 263.8 | 68.9 | 38.53 | 1.223 | 88.5 | 0.499 | 2.000 | 4.5 | 197.6 | --- | 2.999 | -44.70 | 0.445 | 73.9 | 131.3 | -46.3 | 0.416 |
| 4-3610 | 4-4270 | 0.587 | 273.9 | 59.0 | 28.36 | 1.224 | 88.8 | 0.502 | 2.010 | 3.5 | 199.6 | --- | 3.019 | -34.85 | 0.451 | 72.3 | 129.4 | -44.7 | 0.349 |
| 4-3610 | 4-4290 | 0.470 | 280.1 | 49.7 | 21.47 | 1.225 | 89.3 | 0.504 | 2.021 | 2.0 | 201.5 | --- | 3.039 | -28.28 | 0.458 | 70.8 | 128.2 | -41.6 | 0.309 |
| 4-3610 | 4-4310 | 0.392 | 285.4 | 40.9 | 16.57 | 1.226 | 90.0 | 0.507 | 2.032 | 0.1 | 203.4 | --- | 3.061 | -23.72 | 0.465 | 69.4 | 127.9 | -38.0 | 0.284 |
| 4-3610 | 4-4330 | 0.340 | 290.4 | 32.5 | 12.93 | 1.227 | 90.7 | 0.509 | 2.043 | 358.0 | 565.1 | 1.002 | 3.084 | -20.42 | 0.472 | 68.1 | 128.4 | -34.4 | 0.270 |
| 4-3610 | 4-4350 | 0.305 | 295.6 | 24.3 | 10.10 | 1.228 | 91.4 | 0.513 | 2.055 | 355.8 | 566.8 | 1.001 | 3.108 | -17.95 | 0.479 | 66.9 | 129.5 | -31.0 | 0.263 |
| 4-3610 | 4-4370 | 0.284 | 300.9 | 6.7 | 7.84 | 1.229 | 92.3 | 0.516 | 2.067 | 353.3 | 568.4 | 1.000 | 3.134 | -16.05 | 0.486 | 65.8 | 131.0 | -28.0 | 0.261 |
| 4-3610 | 4-4390 | 0.272 | 306.5 | 9.8 | 5.98 | 1.231 | 93.2 | 0.520 | 2.079 | 350.7 | 569.9 | 0.998 | 3.160 | -14.56 | 0.493 | 64.7 | 132.9 | -25.4 | 0.261 |
| 4-3610 | 4-4410 | 0.268 | 312.3 | 3.7 | 4.40 | 1.232 | 94.1 | 0.524 | 2.092 | 348.0 | 571.4 | 0.995 | 3.188 | -13.38 | 0.500 | 63.7 | 135.2 | -23.1 | 0.264 |
| 4-3610 | 4-4430 | 0.269 | 318.1 | -1.5 | 3.04 | 1.233 | 95.1 | 0.529 | 2.104 | 345.1 | 572.7 | 0.991 | 3.218 | -12.42 | 0.507 | 62.7 | 137.7 | -21.1 | 0.269 |
| 4-3610 | 4-4450 | 0.276 | 323.9 | -5.7 | 1.83 | 1.234 | 96.2 | 0.535 | 2.117 | 342.1 | 574.0 | 0.985 | 3.249 | -11.64 | 0.514 | 61.8 | 140.5 | -19.4 | 0.275 |
| 4-3610 | 4-4470 | 0.287 | 329.6 | -9.0 | 0.75 | 1.235 | 97.3 | 0.540 | 2.130 | 339.0 | 575.2 | 0.979 | 3.281 | -11.00 | 0.521 | 60.8 | 143.4 | -17.9 | 0.282 |
| 4-3610 | 4-4490 | 0.302 | 335.1 | -11.4 | -0.24 | 1.236 | 98.6 | 0.547 | 2.143 | 335.6 | 576.4 | 0.971 | 3.316 | -10.49 | 0.528 | 59.9 | 146.6 | -16.6 | 0.291 |
| 4-3610 | 4-4510 | 0.319 | 340.3 | -13.1 | -1.15 | 1.238 | 99.8 | 0.554 | 2.157 | 332.2 | 577.4 | 0.961 | 3.352 | -10.07 | 0.534 | 59.0 | 150.0 | -15.5 | 0.300 |
| 4-3610 | 4-4530 | 0.339 | 345.2 | -14.1 | -2.01 | 1.239 | 101.2 | 0.563 | 2.170 | 328.6 | 578.3 | 0.949 | 3.391 | -9.74 | 0.541 | 58.0 | 153.5 | -14.5 | 0.310 |
| 4-3620 | 4-3760 | 0.600 | 292.3 | -39.2 | -6.51 | 1.570 | 84.7 | 1.475 | -2.099 | 8.8 | 96.2 | --- | --- | 8.09 | 1.076 | 150.2 | 143.9 | 4.7 | 0.912 |
| 4-3620 | 4-3780 | 0.516 | 286.9 | -43.1 | -7.04 | 1.475 | 83.6 | 1.185 | -5.374 | 11.7 | 102.8 | --- | --- | 8.09 | 0.930 | 147.5 | 144.8 | 5.3 | 0.767 |
| 4-3620 | 4-3800 | 0.461 | 280.4 | -46.7 | -7.57 | 1.407 | 82.6 | 0.991 | 04.166 | 14.9 | 109.7 | --- | --- | 8.11 | 0.817 | 144.5 | 145.6 | 5.9 | 0.655 |
| 4-3620 | 4-3820 | 0.426 | 273.4 | -49.9 | -8.11 | 1.358 | 81.7 | 0.856 | 6.839 | 18.1 | 116.6 | --- | --- | 8.18 | 0.728 | 141.2 | 146.2 | 6.6 | 0.564 |
| 4-3620 | 4-3840 | 0.404 | 266.3 | -52.5 | -8.65 | 1.321 | 80.8 | 0.762 | 4.100 | 21.2 | 123.5 | --- | --- | 8.27 | 0.656 | 137.6 | 146.6 | 7.5 | 0.490 |
| 4-3620 | 4-3860 | 0.392 | 259.5 | -54.5 | -9.21 | 1.294 | 80.1 | 0.695 | 3.174 | 24.1 | 130.0 | --- | --- | 8.41 | 0.599 | 133.9 | 146.8 | 8.5 | 0.429 |
| 4-3620 | 4-3880 | 0.386 | 253.3 | -56.3 | -9.78 | 1.274 | 79.6 | 0.646 | 2.721 | 26.7 | 136.3 | --- | --- | 8.58 | 0.552 | 130.0 | 146.6 | 9.6 | 0.378 |
| 4-3620 | 4-3900 | 0.384 | 247.8 | -57.8 | -10.38 | 1.258 | 79.1 | 0.610 | 2.459 | 28.9 | 142.1 | --- | --- | 8.80 | 0.515 | 125.9 | 146.1 | 11.0 | 0.336 |
| 4-3620 | 4-3920 | 0.385 | 243.1 | -59.3 | -11.01 | 1.247 | 78.8 | 0.584 | 2.293 | 30.6 | 147.5 | --- | --- | 9.07 | 0.486 | 121.8 | 145.3 | 12.5 | 0.300 |
| 4-3620 | 4-3940 | 0.388 | 238.9 | -60.7 | -11.69 | 1.238 | 78.6 | 0.565 | 2.183 | 32.0 | 152.5 | --- | --- | 9.40 | 0.462 | 117.6 | 144.0 | 14.3 | 0.271 |
| 4-3620 | 4-3960 | 0.392 | 235.1 | -62.3 | -12.41 | 1.231 | 78.4 | 0.550 | 2.107 | 32.9 | 157.0 | --- | --- | 9.78 | 0.444 | 113.5 | 142.4 | 16.2 | 0.248 |
| 4-3620 | 4-3980 | 0.399 | 231.5 | -64.0 | -13.21 | 1.226 | 78.4 | 0.539 | 2.053 | 33.5 | 161.3 | --- | --- | 10.25 | 0.430 | 109.5 | 140.3 | 18.4 | 0.229 |
| 4-3620 | 4-4000 | 0.406 | 227.9 | -65.9 | -14.08 | 1.222 | 78.4 | 0.531 | 2.016 | 33.8 | 165.2 | --- | --- | 10.81 | 0.420 | 105.6 | 137.8 | 20.7 | 0.215 |
| 4-3620 | 4-4020 | 0.416 | 223.9 | -67.9 | -15.07 | 1.220 | 78.5 | 0.524 | 1.990 | 33.7 | 168.8 | --- | --- | 11.48 | 0.413 | 101.9 | 135.1 | 23.1 | 0.205 |
| 4-3620 | 4-4040 | 0.428 | 219.1 | -70.1 | -16.18 | 1.218 | 78.7 | 0.519 | 1.972 | 33.5 | 172.1 | --- | --- | 12.30 | 0.409 | 98.3 | 132.2 | 25.6 | 0.199 |
| 4-3620 | 4-4060 | 0.444 | 212.8 | -72.3 | -17.48 | 1.216 | 78.9 | 0.515 | 1.960 | 33.0 | 175.3 | --- | --- | 13.30 | 0.407 | 95.0 | 129.4 | 28.2 | 0.197 |
| 4-3620 | 4-4080 | 0.463 | 204.1 | -74.4 | -19.01 | 1.216 | 79.2 | 0.513 | 1.954 | 32.3 | 178.2 | --- | --- | 14.54 | 0.407 | 91.9 | 126.7 | 30.8 | 0.200 |
| 4-3620 | 4-4100 | 0.488 | 191.6 | -76.2 | -20.87 | 1.215 | 79.5 | 0.510 | 1.951 | 31.4 | 181.0 | --- | 2.947 | 16.12 | 0.408 | 89.0 | 124.3 | 33.3 | 0.206 |
| 4-3620 | 4-4120 | 0.522 | 174.5 | -77.0 | -23.20 | 1.216 | 79.8 | 0.509 | 1.951 | 30.5 | 183.6 | --- | 2.944 | 18.15 | 0.410 | 86.2 | 122.5 | 36.0 | 0.217 |
| 4-3620 | 4-4140 | 0.568 | 155.0 | -76.2 | -26.19 | 1.216 | 80.2 | 0.508 | 1.954 | 29.4 | 186.1 | --- | 2.947 | 20.87 | 0.414 | 83.7 | 121.4 | 38.7 | 0.234 |
| 4-3620 | 4-4160 | 0.633 | 138.3 | -73.3 | -30.23 | 1.216 | 80.6 | 0.507 | 1.959 | 28.3 | 188.5 | --- | 2.953 | 24.63 | 0.418 | 81.4 | 121.1 | 41.4 | 0.260 |
| 4-3620 | 4-4180 | 0.727 | 127.0 | -68.3 | -35.95 | 1.217 | 80.9 | 0.507 | 1.965 | 27.1 | 190.8 | --- | 2.962 | 30.07 | 0.423 | 79.2 | 122.1 | 43.9 | 0.300 |
| 4-3620 | 4-4200 | 0.872 | 120.6 | -61.0 | -44.56 | 1.218 | 81.3 | 0.508 | 1.973 | 26.1 | 193.1 | --- | 2.975 | 38.40 | 0.428 | 77.2 | 124.6 | 45.7 | 0.362 |
| 4-3620 | 4-4220 | 1.099 | 118.0 | -50.7 | -58.26 | 1.219 | 81.4 | 0.509 | 1.981 | 25.5 | 195.2 | --- | 2.990 | 51.82 | 0.434 | 75.3 | 129.1 | 45.5 | 0.463 |
| 4-3620 | 4-4240 | 1.431 | 118.4 | -36.7 | -79.85 | 1.220 | 81.3 | 0.512 | 1.991 | 25.8 | 197.4 | --- | 3.010 | 73.14 | 0.440 | 73.3 | 135.3 | 41.1 | 0.615 |
| 4-3620 | 4-4280 | 0.935 | 238.9 | 72.3 | 48.56 | 1.222 | 86.5 | 0.503 | 2.012 | 10.5 | 200.3 | --- | 3.024 | -55.84 | 0.454 | 71.7 | 137.8 | -45.1 | 0.504 |
| 4-3620 | 4-4300 | 0.666 | 264.4 | 61.8 | 32.88 | 1.223 | 86.7 | 0.506 | 2.023 | 9.7 | 202.2 | --- | 3.046 | -40.45 | 0.461 | 70.2 | 134.5 | -45.1 | 0.397 |
| 4-3620 | 4-4320 | 0.499 | 275.4 | 50.9 | 23.11 | 1.224 | 87.2 | 0.508 | 2.035 | 8.2 | 204.1 | --- | 3.068 | -30.97 | 0.468 | 68.9 | 132.3 | -42.1 | 0.335 |
| 4-3620 | 4-4340 | 0.396 | 282.6 | 40.4 | 16.72 | 1.225 | 87.9 | 0.510 | 2.047 | 6.3 | 205.8 | --- | 3.091 | -24.88 | 0.475 | 67.7 | 131.6 | -38.0 | 0.300 |
| 4-3620 | 4-4360 | 0.331 | 288.9 | 30.3 | 12.28 | 1.227 | 88.6 | 0.512 | 2.060 | 4.1 | 207.5 | --- | 3.115 | -20.74 | 0.482 | 66.6 | 132.0 | -33.9 | 0.281 |
| 4-3620 | 4-4380 | 0.291 | 295.0 | 20.8 | 9.02 | 1.228 | 89.4 | 0.515 | 2.072 | 1.6 | 209.0 | --- | 3.140 | -17.80 | 0.489 | 65.5 | 133.1 | -30.1 | 0.272 |
| 4-3620 | 4-4400 | 0.267 | 301.3 | 12.0 | 6.51 | 1.229 | 90.3 | 0.518 | 2.085 | 359.1 | 570.6 | 1.005 | 3.165 | -15.61 | 0.497 | 64.6 | 134.8 | -26.8 | 0.268 |
| 4-3620 | 4-4420 | 0.254 | 307.8 | 4.2 | 4.51 | 1.230 | 91.3 | 0.521 | 2.098 | 356.3 | 572.0 | 1.004 | 3.192 | -13.95 | 0.504 | 63.6 | 137.0 | -24.0 | 0.268 |
| 4-3620 | 4-4440 | 0.250 | 314.4 | -2.4 | 2.87 | 1.231 | 92.3 | 0.525 | 2.112 | 353.4 | 573.4 | 1.003 | 3.220 | -12.65 | 0.511 | 62.8 | 139.4 | -21.6 | 0.270 |
| 4-3620 | 4-4460 | 0.253 | 321.2 | -7.6 | 1.48 | 1.233 | 93.3 | 0.529 | 2.125 | 350.4 | 574.7 | 1.000 | 3.250 | -11.62 | 0.518 | 61.9 | 142.2 | -19.6 | 0.275 |
| 4-3620 | 4-4480 | 0.260 | 327.9 | -11.6 | 0.28 | 1.234 | 94.4 | 0.534 | 2.138 | 347.3 | 576.0 | 0.997 | 3.280 | -10.79 | 0.525 | 61.1 | 145.2 | -17.8 | 0.281 |
| 4-3620 | 4-4500 | 0.272 | 334.4 | -14.4 | -0.78 | 1.235 | 95.6 | 0.539 | 2.152 | 344.0 | 577.1 | 0.991 | 3.313 | -10.12 | 0.531 | 60.3 | 148.3 | -16.4 | 0.288 |
| 4-3620 | 4-4520 | 0.286 | 340.6 | -16.2 | -1.73 | 1.236 | 96.9 | 0.545 | 2.166 | 340.5 | 578.2 | 0.985 | 3.347 | -9.58 | 0.538 | 59.5 | 151.7 | -15.1 | 0.296 |
| 4-3620 | 4-4540 | 0.304 | 346.5 | -17.3 | -2.60 | 1.237 | 98.2 | 0.552 | 2.179 | 336.9 | 579.2 | 0.976 | 3.382 | -9.14 | 0.544 | 58.6 | 155.2 | -14.0 | 0.305 |
| 4-3630 | 4-3770 | 0.605 | 283.4 | -40.3 | -6.89 | 1.534 | 78.6 | 1.359 | -2.716 | 19.7 | 99.3 | --- | --- | 6.92 | 1.024 | 149.8 | 144.5 | 4.1 | 0.864 |
| 4-3630 | 4-3790 | 0.533 | 276.9 | -43.1 | -7.35 | 1.446 | 77.9 | 1.102 | -9.486 | 23.1 | 106.5 | --- | --- | 6.86 | 0.885 | 146.9 | 145.2 | 4.5 | 0.727 |
| 4-3630 | 4-3810 | 0.488 | 270.1 | -45.5 | -7.80 | 1.383 | 77.1 | 0.932 | 14.004 | 26.7 | 113.8 | --- | --- | 6.82 | 0.778 | 143.8 | 145.8 | 5.1 | 0.620 |
| 4-3630 | 4-3830 | 0.459 | 263.5 | -47.3 | -8.24 | 1.338 | 76.4 | 0.816 | 5.134 | 30.2 | 121.0 | --- | --- | 6.81 | 0.693 | 140.3 | 146.1 | 5.6 | 0.534 |
| 4-3630 | 4-3850 | 0.442 | 257.6 | -48.6 | -8.68 | 1.305 | 75.9 | 0.735 | 3.537 | 33.5 | 128.0 | --- | --- | 6.83 | 0.626 | 136.6 | 146.3 | 6.3 | 0.464 |
| 4-3630 | 4-3870 | 0.432 | 252.5 | -49.7 | -9.13 | 1.280 | 75.4 | 0.678 | 2.885 | 36.4 | 134.5 | --- | --- | 6.88 | 0.571 | 132.7 | 146.2 | 7.1 | 0.406 |
| 4-3630 | 4-3890 | 0.426 | 248.3 | -50.7 | -9.58 | 1.261 | 75.0 | 0.638 | 2.541 | 38.8 | 140.6 | --- | --- | 6.96 | 0.528 | 128.6 | 145.7 | 8.0 | 0.358 |
| 4-3630 | 4-3910 | 0.423 | 244.8 | -51.6 | -10.04 | 1.248 | 74.8 | 0.608 | 2.335 | 40.8 | 146.2 | --- | --- | 7.07 | 0.494 | 124.3 | 144.9 | 9.1 | 0.318 |
| 4-3630 | 4-3930 | 0.422 | 241.9 | -52.6 | -10.52 | 1.237 | 74.6 | 0.586 | 2.202 | 42.3 | 151.4 | --- | --- | 7.21 | 0.466 | 120.1 | 143.8 | 10.3 | 0.284 |
| 4-3630 | 4-3950 | 0.422 | 239.6 | -53.7 | -11.03 | 1.229 | 74.6 | 0.570 | 2.113 | 43.3 | 156.1 | --- | --- | 7.39 | 0.445 | 115.8 | 142.2 | 11.6 | 0.257 |
| 4-3630 | 4-3970 | 0.423 | 237.7 | -55.0 | -11.56 | 1.224 | 74.6 | 0.558 | 2.051 | 43.9 | 160.4 | --- | --- | 7.61 | 0.429 | 111.6 | 140.2 | 13.0 | 0.235 |
| 4-3630 | 4-3990 | 0.425 | 236.0 | -56.4 | -12.12 | 1.219 | 74.7 | 0.548 | 2.008 | 44.2 | 164.3 | --- | --- | 7.88 | 0.418 | 107.5 | 137.9 | 14.6 | 0.217 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3630 | 4-4010 | 0.427 | 234.6 | -57.9 | -12.73 | 1.216 | 74.8 | 0.541 | 1.979 | 44.2 | 167.9 | --- | --- | 8.20 | 0.409 | 103.5 | 135.3 | 16.2 | 0.203 |
| 4-3630 | 4-4030 | 0.431 | 233.1 | -59.7 | -13.40 | 1.214 | 75.0 | 0.535 | 1.959 | 43.8 | 171.3 | --- | --- | 8.59 | 0.404 | 99.8 | 132.6 | 17.9 | 0.194 |
| 4-3630 | 4-4050 | 0.435 | 231.7 | -61.6 | -14.13 | 1.213 | 75.3 | 0.531 | 1.946 | 43.3 | 174.4 | --- | --- | 9.05 | 0.401 | 96.3 | 129.7 | 19.6 | 0.187 |
| 4-3630 | 4-4070 | 0.441 | 230.0 | -63.7 | -14.96 | 1.212 | 75.6 | 0.527 | 1.938 | 42.5 | 177.3 | --- | --- | 9.62 | 0.401 | 93.0 | 127.0 | 21.3 | 0.184 |
| 4-3630 | 4-4090 | 0.448 | 227.8 | -66.1 | -15.90 | 1.212 | 76.0 | 0.524 | 1.935 | 41.6 | 180.0 | --- | 2.950 | 10.30 | 0.402 | 89.9 | 124.5 | 23.1 | 0.183 |
| 4-3630 | 4-4110 | 0.458 | 224.8 | -68.6 | -17.00 | 1.212 | 76.4 | 0.522 | 1.935 | 40.5 | 182.6 | --- | 2.946 | 11.15 | 0.404 | 87.1 | 122.4 | 24.9 | 0.185 |
| 4-3630 | 4-4130 | 0.472 | 220.3 | -71.2 | -18.30 | 1.212 | 76.8 | 0.520 | 1.938 | 39.2 | 185.1 | --- | 2.947 | 12.21 | 0.407 | 84.5 | 120.7 | 26.8 | 0.190 |
| 4-3630 | 4-4150 | 0.490 | 213.1 | -73.9 | -19.90 | 1.212 | 77.3 | 0.519 | 1.943 | 37.9 | 187.5 | --- | 2.951 | 13.55 | 0.411 | 82.1 | 119.6 | 28.9 | 0.198 |
| 4-3630 | 4-4170 | 0.516 | 201.1 | -76.3 | -21.90 | 1.213 | 77.8 | 0.518 | 1.950 | 36.4 | 189.7 | --- | 2.959 | 15.31 | 0.416 | 79.9 | 119.1 | 31.2 | 0.209 |
| 4-3630 | 4-4190 | 0.552 | 182.1 | -77.7 | -24.51 | 1.214 | 78.3 | 0.517 | 1.958 | 34.8 | 191.9 | --- | 2.969 | 17.68 | 0.422 | 77.9 | 119.2 | 33.9 | 0.225 |
| 4-3630 | 4-4210 | 0.606 | 158.8 | -76.8 | -28.09 | 1.215 | 78.8 | 0.516 | 1.967 | 33.2 | 193.9 | --- | 2.982 | 21.02 | 0.428 | 76.0 | 120.2 | 37.0 | 0.248 |
| 4-3630 | 4-4230 | 0.689 | 139.9 | -72.8 | -33.30 | 1.216 | 79.3 | 0.516 | 1.977 | 31.7 | 196.0 | --- | 2.997 | 26.00 | 0.435 | 74.3 | 122.4 | 40.4 | 0.283 |
| 4-3630 | 4-4250 | 0.824 | 129.2 | -65.7 | -41.51 | 1.217 | 79.8 | 0.516 | 1.988 | 30.2 | 197.9 | --- | 3.014 | 33.97 | 0.441 | 72.6 | 126.3 | 43.6 | 0.342 |
| 4-3630 | 4-4270 | 1.057 | 125.2 | -54.8 | -55.61 | 1.218 | 80.2 | 0.518 | 1.999 | 29.1 | 199.9 | --- | 3.034 | 47.83 | 0.448 | 71.1 | 132.9 | 45.0 | 0.445 |
| 4-3630 | 4-4290 | 1.439 | 126.1 | -38.6 | -80.43 | 1.220 | 80.2 | 0.520 | 2.011 | 28.9 | 201.8 | --- | 3.058 | 72.40 | 0.456 | 69.5 | 141.9 | 40.9 | 0.622 |
| 4-3630 | 4-4310 | 1.223 | 200.8 | 69.5 | 66.14 | 1.221 | 84.7 | 0.508 | 2.024 | 15.8 | 202.8 | --- | 3.052 | -74.40 | 0.463 | 69.6 | 146.4 | -40.7 | 0.641 |
| 4-3630 | 4-4330 | 0.793 | 250.8 | 64.1 | 40.13 | 1.222 | 84.7 | 0.511 | 2.036 | 15.6 | 204.7 | --- | 3.078 | -48.64 | 0.470 | 68.2 | 141.2 | -44.9 | 0.464 |
| 4-3630 | 4-4350 | 0.538 | 270.9 | 51.3 | 25.22 | 1.223 | 85.2 | 0.513 | 2.049 | 14.2 | 206.5 | --- | 3.101 | -33.98 | 0.478 | 67.1 | 137.1 | -42.4 | 0.365 |
| 4-3630 | 4-4370 | 0.399 | 281.1 | 38.3 | 16.61 | 1.225 | 85.9 | 0.515 | 2.063 | 12.2 | 208.1 | --- | 3.125 | -25.62 | 0.485 | 66.0 | 135.4 | -37.6 | 0.314 |
| 4-3630 | 4-4390 | 0.321 | 288.7 | 25.8 | 11.17 | 1.226 | 86.7 | 0.517 | 2.076 | 9.8 | 209.7 | --- | 3.150 | -20.45 | 0.492 | 65.1 | 135.6 | -32.6 | 0.289 |
| 4-3630 | 4-4410 | 0.277 | 295.6 | 14.3 | 7.46 | 1.227 | 87.5 | 0.519 | 2.090 | 7.3 | 211.2 | --- | 3.174 | -17.00 | 0.500 | 64.2 | 136.8 | -28.3 | 0.278 |
| 4-3630 | 4-4430 | 0.254 | 302.7 | 4.2 | 4.76 | 1.229 | 88.5 | 0.521 | 2.104 | 4.5 | 212.6 | --- | 3.200 | -14.57 | 0.507 | 63.4 | 138.8 | -24.7 | 0.273 |
| 4-3630 | 4-4450 | 0.243 | 309.9 | -4.2 | 2.69 | 1.230 | 89.4 | 0.524 | 2.117 | 1.6 | 214.0 | --- | 3.227 | -12.78 | 0.514 | 62.6 | 141.1 | -21.7 | 0.273 |
| 4-3630 | 4-4470 | 0.241 | 317.4 | -10.8 | 1.04 | 1.231 | 90.5 | 0.527 | 2.131 | 358.6 | 575.4 | 1.008 | 3.255 | -11.42 | 0.521 | 61.8 | 143.9 | -19.3 | 0.276 |
| 4-3630 | 4-4490 | 0.245 | 325.0 | -15.6 | -0.31 | 1.232 | 91.6 | 0.531 | 2.145 | 355.4 | 576.6 | 1.007 | 3.284 | -10.37 | 0.528 | 61.1 | 146.8 | -17.3 | 0.280 |
| 4-3630 | 4-4510 | 0.253 | 332.5 | -19.0 | -1.46 | 1.234 | 92.7 | 0.535 | 2.160 | 352.1 | 577.8 | 1.004 | 3.315 | -9.54 | 0.535 | 60.4 | 150.0 | -15.6 | 0.286 |
| 4-3630 | 4-4530 | 0.264 | 339.7 | -21.0 | -2.45 | 1.235 | 94.0 | 0.540 | 2.174 | 348.7 | 578.9 | 1.001 | 3.347 | -8.87 | 0.541 | 59.7 | 153.4 | -14.2 | 0.293 |
| 4-3630 | 4-4550 | 0.278 | 346.5 | -22.0 | -3.33 | 1.236 | 95.3 | 0.545 | 2.188 | 345.1 | 579.9 | 0.996 | 3.380 | -8.34 | 0.548 | 59.0 | 156.9 | -13.1 | 0.301 |
| 4-3640 | 4-3780 | 0.640 | 275.0 | -40.1 | -7.41 | 1.497 | 72.3 | 1.241 | -3.835 | 31.9 | 103.8 | --- | --- | 5.63 | 0.969 | 149.7 | 144.5 | 3.4 | 0.819 |
| 4-3640 | 4-3800 | 0.578 | 268.7 | -41.8 | -7.79 | 1.416 | 71.8 | 1.022 | 40.735 | 35.9 | 111.5 | --- | --- | 5.52 | 0.838 | 146.7 | 145.0 | 3.7 | 0.689 |
| 4-3640 | 4-3820 | 0.539 | 262.8 | -43.1 | -8.16 | 1.359 | 71.4 | 0.879 | 7.453 | 39.8 | 119.1 | --- | --- | 5.44 | 0.736 | 143.3 | 145.3 | 4.1 | 0.587 |
| 4-3640 | 4-3840 | 0.515 | 257.7 | -44.0 | -8.52 | 1.317 | 71.0 | 0.783 | 4.089 | 43.5 | 126.5 | --- | --- | 5.39 | 0.656 | 139.7 | 145.4 | 4.5 | 0.506 |
| 4-3640 | 4-3860 | 0.499 | 253.4 | -44.8 | -8.87 | 1.287 | 70.7 | 0.717 | 3.097 | 46.7 | 133.4 | --- | --- | 5.36 | 0.592 | 135.7 | 145.2 | 5.0 | 0.439 |
| 4-3640 | 4-3880 | 0.489 | 249.9 | -45.4 | -9.21 | 1.265 | 70.5 | 0.670 | 2.635 | 49.4 | 139.8 | --- | --- | 5.35 | 0.542 | 131.6 | 144.7 | 5.6 | 0.385 |
| 4-3640 | 4-3900 | 0.482 | 247.2 | -46.0 | -9.56 | 1.249 | 70.3 | 0.637 | 2.376 | 51.5 | 145.6 | --- | --- | 5.36 | 0.501 | 127.2 | 143.9 | 6.3 | 0.339 |
| 4-3640 | 4-3920 | 0.477 | 245.1 | -46.7 | -9.90 | 1.236 | 70.3 | 0.613 | 2.216 | 53.1 | 150.8 | --- | --- | 5.40 | 0.470 | 122.8 | 142.8 | 7.1 | 0.302 |
| 4-3640 | 4-3940 | 0.474 | 243.5 | -47.4 | -10.26 | 1.227 | 70.3 | 0.596 | 2.112 | 54.2 | 155.6 | --- | --- | 5.46 | 0.445 | 118.3 | 141.2 | 7.9 | 0.271 |
| 4-3640 | 4-3960 | 0.471 | 242.3 | -48.3 | -10.62 | 1.221 | 70.4 | 0.582 | 2.041 | 54.8 | 159.9 | --- | --- | 5.54 | 0.427 | 113.8 | 139.3 | 8.8 | 0.246 |
| 4-3640 | 4-3980 | 0.469 | 241.5 | -49.2 | -11.00 | 1.216 | 70.6 | 0.572 | 1.993 | 55.0 | 163.8 | --- | --- | 5.65 | 0.413 | 109.5 | 137.1 | 9.8 | 0.226 |
| 4-3640 | 4-4000 | 0.467 | 240.8 | -50.3 | -11.39 | 1.212 | 70.8 | 0.564 | 1.960 | 55.0 | 167.4 | --- | --- | 5.79 | 0.403 | 105.3 | 134.6 | 10.8 | 0.210 |
| 4-3640 | 4-4020 | 0.465 | 240.4 | -51.6 | -11.81 | 1.210 | 71.1 | 0.557 | 1.938 | 54.6 | 170.7 | --- | --- | 5.96 | 0.397 | 101.3 | 131.9 | 11.8 | 0.197 |
| 4-3640 | 4-4040 | 0.463 | 240.1 | -53.0 | -12.25 | 1.208 | 71.4 | 0.552 | 1.925 | 54.0 | 173.8 | --- | --- | 6.17 | 0.393 | 97.5 | 129.1 | 12.9 | 0.188 |
| 4-3640 | 4-4060 | 0.462 | 240.0 | -54.5 | -12.73 | 1.208 | 71.8 | 0.548 | 1.917 | 53.1 | 176.7 | --- | --- | 6.42 | 0.392 | 94.0 | 126.4 | 13.9 | 0.182 |
| 4-3640 | 4-4080 | 0.462 | 239.9 | -56.2 | -13.25 | 1.207 | 72.2 | 0.544 | 1.913 | 52.1 | 179.3 | --- | --- | 6.72 | 0.393 | 90.8 | 123.9 | 14.9 | 0.179 |
| 4-3640 | 4-4100 | 0.462 | 239.8 | -58.1 | -13.84 | 1.207 | 72.6 | 0.541 | 1.914 | 50.9 | 181.9 | --- | 2.948 | 7.09 | 0.395 | 87.8 | 121.8 | 15.9 | 0.178 |
| 4-3640 | 4-4120 | 0.463 | 239.6 | -60.1 | -14.49 | 1.208 | 73.1 | 0.538 | 1.917 | 49.6 | 184.3 | --- | 2.948 | 7.54 | 0.399 | 85.0 | 120.0 | 17.0 | 0.179 |
| 4-3640 | 4-4140 | 0.465 | 239.2 | -62.4 | -15.24 | 1.208 | 73.6 | 0.535 | 1.922 | 48.1 | 186.6 | --- | 2.952 | 8.08 | 0.403 | 82.5 | 118.6 | 18.1 | 0.181 |
| 4-3640 | 4-4160 | 0.470 | 238.5 | -65.0 | -16.12 | 1.209 | 74.2 | 0.533 | 1.930 | 46.5 | 188.8 | --- | 2.958 | 8.76 | 0.408 | 80.2 | 117.7 | 19.3 | 0.185 |
| 4-3640 | 4-4180 | 0.477 | 237.1 | -67.8 | -17.17 | 1.210 | 74.8 | 0.531 | 1.938 | 44.8 | 190.9 | --- | 2.968 | 9.61 | 0.414 | 78.1 | 117.3 | 20.8 | 0.191 |
| 4-3640 | 4-4200 | 0.488 | 234.3 | -70.9 | -18.46 | 1.211 | 75.4 | 0.530 | 1.948 | 43.0 | 192.9 | --- | 2.980 | 10.71 | 0.421 | 76.2 | 117.4 | 22.5 | 0.198 |
| 4-3640 | 4-4220 | 0.505 | 228.9 | -74.2 | -20.10 | 1.212 | 76.0 | 0.528 | 1.959 | 41.2 | 194.9 | --- | 2.994 | 12.15 | 0.427 | 74.5 | 118.0 | 24.6 | 0.208 |
| 4-3640 | 4-4240 | 0.531 | 217.5 | -77.5 | -22.28 | 1.213 | 76.7 | 0.527 | 1.970 | 39.2 | 196.8 | --- | 3.009 | 14.14 | 0.434 | 72.9 | 119.2 | 27.3 | 0.221 |
| 4-3640 | 4-4260 | 0.572 | 193.9 | -79.7 | -25.33 | 1.215 | 77.3 | 0.526 | 1.983 | 37.3 | 198.7 | --- | 3.026 | 16.99 | 0.442 | 71.4 | 121.0 | 30.7 | 0.240 |
| 4-3640 | 4-4280 | 0.641 | 160.5 | -78.4 | -29.93 | 1.216 | 78.0 | 0.526 | 1.995 | 35.3 | 200.5 | --- | 3.044 | 21.40 | 0.449 | 70.1 | 123.8 | 35.0 | 0.269 |
| 4-3640 | 4-4300 | 0.764 | 138.9 | -71.9 | -37.63 | 1.217 | 78.6 | 0.526 | 2.008 | 33.4 | 202.2 | --- | 3.064 | 28.91 | 0.457 | 68.8 | 128.5 | 39.9 | 0.321 |
| 4-3640 | 4-4320 | 1.007 | 131.8 | -59.8 | -52.43 | 1.219 | 79.2 | 0.526 | 2.022 | 31.8 | 204.0 | --- | 3.086 | 43.52 | 0.464 | 67.6 | 136.9 | 43.8 | 0.427 |
| 4-3640 | 4-4340 | 1.479 | 133.9 | -39.5 | -83.37 | 1.220 | 79.3 | 0.529 | 2.036 | 31.3 | 205.7 | --- | 3.112 | 74.26 | 0.472 | 66.3 | 149.7 | 40.0 | 0.648 |
| 4-3640 | 4-4360 | 1.031 | 226.9 | 64.5 | 54.16 | 1.222 | 82.9 | 0.518 | 2.050 | 21.0 | 207.0 | --- | 3.112 | -63.46 | 0.480 | 66.4 | 150.6 | -42.8 | 0.579 |
| 4-3640 | 4-4380 | 0.597 | 266.3 | 51.8 | 28.35 | 1.223 | 83.2 | 0.521 | 2.064 | 19.9 | 208.7 | --- | 3.138 | -37.85 | 0.487 | 65.3 | 142.7 | -42.6 | 0.401 |
| 4-3640 | 4-4400 | 0.399 | 281.2 | 34.6 | 16.02 | 1.224 | 83.9 | 0.522 | 2.078 | 17.8 | 210.2 | --- | 3.163 | -25.72 | 0.495 | 64.4 | 139.3 | -36.6 | 0.325 |
| 4-3640 | 4-4420 | 0.308 | 290.3 | 18.4 | 9.35 | 1.226 | 84.7 | 0.523 | 2.093 | 15.3 | 211.7 | --- | 3.187 | -19.26 | 0.503 | 63.6 | 139.2 | -30.4 | 0.294 |
| 4-3640 | 4-4440 | 0.266 | 298.1 | 4.3 | 5.24 | 1.227 | 85.7 | 0.525 | 2.107 | 12.6 | 213.2 | --- | 3.213 | -15.36 | 0.510 | 62.9 | 140.6 | -25.3 | 0.281 |
| 4-3640 | 4-4460 | 0.248 | 305.7 | -6.8 | 2.46 | 1.228 | 86.7 | 0.526 | 2.122 | 9.7 | 214.6 | --- | 3.238 | -12.78 | 0.517 | 62.2 | 142.8 | -21.5 | 0.277 |
| 4-3640 | 4-4480 | 0.242 | 313.5 | -15.2 | 0.43 | 1.230 | 87.7 | 0.528 | 2.136 | 6.6 | 215.9 | --- | 3.265 | -10.98 | 0.524 | 61.6 | 145.5 | -18.5 | 0.277 |
| 4-3640 | 4-4500 | 0.242 | 321.6 | -21.1 | -1.12 | 1.231 | 88.8 | 0.531 | 2.151 | 3.4 | 217.2 | --- | 3.293 | -9.65 | 0.531 | 60.9 | 148.4 | -16.1 | 0.281 |
| 4-3640 | 4-4520 | 0.247 | 329.8 | -25.0 | -2.37 | 1.232 | 90.0 | 0.534 | 2.166 | 0.1 | 218.4 | --- | 3.321 | -8.65 | 0.538 | 60.3 | 151.7 | -14.3 | 0.286 |
| 4-3640 | 4-4540 | 0.255 | 337.9 | -27.2 | -3.39 | 1.233 | 91.2 | 0.537 | 2.181 | 356.6 | 579.5 | 1.010 | 3.351 | -7.87 | 0.545 | 59.7 | 155.1 | -12.8 | 0.292 |
| 4-3640 | 4-4560 | 0.265 | 345.6 | -28.1 | -4.26 | 1.235 | 92.4 | 0.541 | 2.195 | 353.1 | 580.6 | 1.008 | 3.383 | -7.26 | 0.551 | 59.1 | 158.6 | -11.5 | 0.299 |
| 4-3650 | 4-3810 | 0.646 | 263.5 | -39.9 | -8.41 | 1.386 | 65.6 | 0.954 | 18.272 | 50.1 | 118.0 | --- | --- | 4.04 | 0.789 | 146.8 | 144.1 | 2.7 | 0.654 |
| 4-3650 | 4-3830 | 0.610 | 259.0 | -40.6 | -8.69 | 1.334 | 65.5 | 0.839 | 5.090 | 54.1 | 125.8 | --- | --- | 3.95 | 0.692 | 143.2 | 144.1 | 2.9 | 0.558 |
| 4-3650 | 4-3850 | 0.586 | 255.3 | -41.1 | -8.95 | 1.297 | 65.4 | 0.762 | 3.396 | 57.7 | 133.0 | --- | --- | 3.87 | 0.616 | 139.2 | 143.8 | 3.2 | 0.481 |
| 4-3650 | 4-3870 | 0.570 | 252.5 | -41.5 | -9.20 | 1.270 | 65.4 | 0.710 | 2.750 | 60.6 | 139.6 | --- | --- | 3.81 | 0.556 | 135.0 | 143.3 | 3.6 | 0.418 |
| 4-3650 | 4-3890 | 0.558 | 250.3 | -41.9 | -9.45 | 1.250 | 65.4 | 0.673 | 2.420 | 62.8 | 145.5 | --- | --- | 3.78 | 0.509 | 130.6 | 142.4 | 4.0 | 0.367 |
| 4-3650 | 4-3910 | 0.549 | 248.7 | -42.4 | -9.70 | 1.236 | 65.5 | 0.647 | 2.226 | 64.4 | 150.9 | --- | --- | 3.75 | 0.472 | 125.9 | 141.2 | 4.4 | 0.325 |
| 4-3650 | 4-3930 | 0.542 | 247.5 | -42.9 | -9.94 | 1.225 | 65.6 | 0.628 | 2.105 | 65.5 | 155.6 | --- | --- | 3.75 | 0.443 | 121.2 | 139.7 | 4.9 | 0.290 |
| 4-3650 | 4-3950 | 0.536 | 246.8 | -43.5 | -10.18 | 1.217 | 65.8 | 0.613 | 2.024 | 66.1 | 159.9 | --- | --- | 3.75 | 0.422 | 116.4 | 137.8 | 5.4 | 0.262 |
| 4-3650 | 4-3970 | 0.530 | 246.3 | -44.2 | -10.42 | 1.212 | 66.1 | 0.602 | 1.971 | 66.3 | 163.7 | --- | --- | 3.78 | 0.406 | 111.7 | 135.6 | 5.9 | 0.239 |
| 4-3650 | 4-3990 | 0.524 | 246.1 | -44.9 | -10.67 | 1.208 | 66.4 | 0.593 | 1.935 | 66.1 | 167.2 | --- | --- | 3.82 | 0.394 | 107.2 | 133.1 | 6.5 | 0.221 |
| 4-3650 | 4-4010 | 0.519 | 246.1 | -45.8 | -10.92 | 1.205 | 66.8 | 0.585 | 1.911 | 65.6 | 170.5 | --- | --- | 3.87 | 0.387 | 102.9 | 130.5 | 7.1 | 0.207 |
| 4-3650 | 4-4030 | 0.514 | 246.3 | -46.8 | -11.19 | 1.204 | 67.2 | 0.579 | 1.896 | 64.9 | 173.5 | --- | --- | 3.95 | 0.383 | 98.8 | 127.8 | 7.6 | 0.197 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3650 | 4-4050 | 0.509 | 246.6 | -47.8 | -11.47 | 1.203 | 67.6 | 0.574 | 1.888 | 64.0 | 176.2 | --- | --- | 4.05 | 0.381 | 95.0 | 125.2 | 8.1 | 0.189 |
| 4-3650 | 4-4070 | 0.504 | 247.0 | -49.0 | -11.76 | 1.202 | 68.1 | 0.569 | 1.885 | 62.9 | 178.8 | --- | --- | 4.17 | 0.382 | 91.5 | 122.8 | 8.6 | 0.184 |
| 4-3650 | 4-4090 | 0.499 | 247.6 | -50.2 | -12.07 | 1.202 | 68.6 | 0.565 | 1.886 | 61.6 | 181.3 | --- | 2.951 | 4.31 | 0.384 | 88.3 | 120.6 | 9.1 | 0.182 |
| 4-3650 | 4-4110 | 0.494 | 248.3 | -51.6 | -12.41 | 1.203 | 69.2 | 0.561 | 1.890 | 60.1 | 183.6 | --- | 2.950 | 4.49 | 0.388 | 85.4 | 118.9 | 9.6 | 0.181 |
| 4-3650 | 4-4130 | 0.489 | 249.0 | -53.1 | -12.78 | 1.204 | 69.8 | 0.558 | 1.896 | 58.6 | 185.8 | --- | 2.953 | 4.71 | 0.393 | 82.7 | 117.5 | 10.1 | 0.181 |
| 4-3650 | 4-4150 | 0.485 | 249.9 | -54.8 | -13.20 | 1.204 | 70.4 | 0.554 | 1.904 | 56.9 | 188.0 | --- | 2.960 | 4.97 | 0.398 | 80.3 | 116.6 | 10.7 | 0.183 |
| 4-3650 | 4-4170 | 0.482 | 250.7 | -56.6 | -13.67 | 1.206 | 71.0 | 0.552 | 1.913 | 55.2 | 190.0 | --- | 2.969 | 5.29 | 0.405 | 78.1 | 116.1 | 11.3 | 0.186 |
| 4-3650 | 4-4190 | 0.479 | 251.6 | -58.6 | -14.20 | 1.207 | 71.7 | 0.549 | 1.924 | 53.3 | 192.0 | --- | 2.980 | 5.68 | 0.411 | 76.2 | 116.0 | 12.0 | 0.190 |
| 4-3650 | 4-4210 | 0.478 | 252.5 | -60.9 | -14.84 | 1.208 | 72.4 | 0.546 | 1.936 | 51.3 | 193.9 | --- | 2.994 | 6.17 | 0.419 | 74.4 | 116.3 | 12.9 | 0.194 |
| 4-3650 | 4-4230 | 0.479 | 253.3 | -63.4 | -15.60 | 1.209 | 73.1 | 0.544 | 1.948 | 49.3 | 195.8 | --- | 3.009 | 6.79 | 0.426 | 72.7 | 117.0 | 13.9 | 0.200 |
| 4-3650 | 4-4250 | 0.482 | 253.7 | -66.3 | -16.55 | 1.211 | 73.8 | 0.542 | 1.961 | 47.2 | 197.6 | --- | 3.025 | 7.60 | 0.434 | 71.3 | 118.0 | 15.3 | 0.206 |
| 4-3650 | 4-4270 | 0.490 | 253.5 | -69.7 | -17.77 | 1.212 | 74.5 | 0.540 | 1.975 | 45.0 | 199.4 | --- | 3.042 | 8.69 | 0.442 | 69.9 | 119.4 | 17.0 | 0.214 |
| 4-3650 | 4-4290 | 0.505 | 251.4 | -73.6 | -19.43 | 1.214 | 75.3 | 0.538 | 1.989 | 42.8 | 201.1 | --- | 3.060 | 10.20 | 0.449 | 68.7 | 121.2 | 19.4 | 0.223 |
| 4-3650 | 4-4310 | 0.531 | 243.9 | -78.2 | -21.81 | 1.215 | 76.1 | 0.537 | 2.004 | 40.4 | 202.8 | --- | 3.079 | 12.45 | 0.457 | 67.6 | 123.5 | 22.7 | 0.237 |
| 4-3650 | 4-4330 | 0.582 | 214.9 | -82.5 | -25.58 | 1.217 | 76.9 | 0.536 | 2.018 | 38.1 | 204.5 | --- | 3.099 | 16.08 | 0.466 | 66.8 | 126.5 | 27.3 | 0.258 |
| 4-3650 | 4-4350 | 0.685 | 156.0 | -79.9 | -32.44 | 1.218 | 77.7 | 0.535 | 2.033 | 35.8 | 206.1 | --- | 3.121 | 22.81 | 0.474 | 65.6 | 131.3 | 34.1 | 0.299 |
| 4-3650 | 4-4370 | 0.940 | 137.8 | -66.1 | -48.16 | 1.220 | 78.4 | 0.535 | 2.048 | 33.7 | 207.7 | --- | 3.143 | 38.38 | 0.481 | 64.7 | 140.9 | 41.8 | 0.405 |
| 4-3650 | 4-4410 | 0.703 | 259.3 | 53.2 | 34.33 | 1.223 | 81.3 | 0.529 | 2.079 | 25.3 | 210.7 | --- | 3.178 | -44.39 | 0.497 | 63.6 | 150.0 | -42.9 | 0.458 |
| 4-3650 | 4-4430 | 0.389 | 283.7 | 28.5 | 14.46 | 1.224 | 82.0 | 0.530 | 2.094 | 23.2 | 212.2 | --- | 3.204 | -24.66 | 0.505 | 62.9 | 143.0 | -34.6 | 0.330 |
| 4-3650 | 4-4450 | 0.294 | 294.5 | 6.1 | 6.35 | 1.225 | 82.9 | 0.531 | 2.109 | 20.5 | 213.6 | --- | 3.228 | -16.69 | 0.512 | 62.2 | 142.7 | -26.4 | 0.293 |
| 4-3650 | 4-4470 | 0.264 | 302.8 | -10.1 | 2.08 | 1.227 | 83.9 | 0.531 | 2.125 | 17.6 | 215.0 | --- | 3.253 | -12.57 | 0.520 | 61.6 | 144.4 | -20.7 | 0.281 |
| 4-3650 | 4-4490 | 0.255 | 310.8 | -20.9 | -0.55 | 1.228 | 85.0 | 0.532 | 2.140 | 14.5 | 216.4 | --- | 3.279 | -10.09 | 0.527 | 61.1 | 147.0 | -16.8 | 0.279 |
| 4-3650 | 4-4510 | 0.254 | 319.0 | -27.9 | -2.35 | 1.230 | 86.1 | 0.533 | 2.155 | 11.3 | 217.6 | --- | 3.305 | -8.45 | 0.534 | 60.6 | 150.0 | -14.0 | 0.282 |
| 4-3650 | 4-4530 | 0.256 | 327.4 | -32.1 | -3.67 | 1.231 | 87.2 | 0.535 | 2.171 | 7.9 | 218.9 | --- | 3.333 | -7.29 | 0.541 | 60.1 | 153.3 | -12.0 | 0.286 |
| 4-3650 | 4-4550 | 0.261 | 335.9 | -34.5 | -4.68 | 1.232 | 88.4 | 0.537 | 2.186 | 4.4 | 220.0 | --- | 3.361 | -6.44 | 0.547 | 59.6 | 156.7 | -10.5 | 0.292 |
| 4-3650 | 4-4570 | 0.268 | 344.2 | -35.3 | -5.50 | 1.234 | 89.7 | 0.540 | 2.202 | 0.8 | 221.1 | --- | 3.391 | -5.80 | 0.554 | 59.1 | 160.3 | -9.3 | 0.298 |
| 4-3660 | 4-3820 | 0.731 | 261.2 | -38.0 | -9.24 | 1.357 | 59.1 | 0.904 | 7.634 | 65.5 | 125.8 | --- | --- | 2.36 | 0.738 | 147.3 | 142.4 | 1.5 | 0.625 |
| 4-3660 | 4-3840 | 0.695 | 258.0 | -38.4 | -9.41 | 1.310 | 59.4 | 0.815 | 3.892 | 69.3 | 133.3 | --- | --- | 2.28 | 0.646 | 143.4 | 142.0 | 1.6 | 0.534 |
| 4-3660 | 4-3860 | 0.670 | 255.6 | -38.7 | -9.57 | 1.276 | 59.6 | 0.756 | 2.911 | 72.4 | 140.1 | --- | --- | 2.21 | 0.575 | 139.1 | 141.4 | 1.8 | 0.461 |
| 4-3660 | 4-3880 | 0.651 | 253.8 | -39.0 | -9.72 | 1.252 | 59.9 | 0.716 | 2.475 | 74.7 | 146.1 | --- | --- | 2.16 | 0.518 | 134.6 | 140.5 | 2.0 | 0.402 |
| 4-3660 | 4-3900 | 0.637 | 252.6 | -39.3 | -9.87 | 1.235 | 60.1 | 0.688 | 2.237 | 76.3 | 151.4 | --- | --- | 2.12 | 0.474 | 129.7 | 139.3 | 2.2 | 0.354 |
| 4-3660 | 4-3920 | 0.625 | 251.7 | -39.7 | -10.01 | 1.223 | 60.4 | 0.667 | 2.093 | 77.3 | 156.1 | --- | --- | 2.09 | 0.441 | 124.7 | 137.7 | 2.4 | 0.315 |
| 4-3660 | 4-3940 | 0.615 | 251.3 | -40.1 | -10.14 | 1.214 | 60.8 | 0.651 | 2.002 | 77.7 | 160.2 | --- | --- | 2.06 | 0.415 | 119.6 | 135.8 | 2.6 | 0.284 |
| 4-3660 | 4-3960 | 0.605 | 251.1 | -40.6 | -10.27 | 1.207 | 61.2 | 0.638 | 1.942 | 77.8 | 164.0 | --- | --- | 2.05 | 0.396 | 114.5 | 133.6 | 2.9 | 0.259 |
| 4-3660 | 4-3980 | 0.596 | 251.1 | -41.2 | -10.41 | 1.203 | 61.6 | 0.628 | 1.902 | 77.5 | 167.4 | --- | --- | 2.05 | 0.383 | 109.5 | 131.2 | 3.1 | 0.238 |
| 4-3660 | 4-4000 | 0.588 | 251.3 | -41.8 | -10.54 | 1.200 | 62.1 | 0.620 | 1.877 | 76.9 | 170.5 | --- | --- | 2.05 | 0.374 | 104.8 | 128.6 | 3.3 | 0.223 |
| 4-3660 | 4-4020 | 0.580 | 251.7 | -42.4 | -10.67 | 1.198 | 62.6 | 0.612 | 1.862 | 76.1 | 173.3 | --- | --- | 2.06 | 0.369 | 100.3 | 126.0 | 3.6 | 0.211 |
| 4-3660 | 4-4040 | 0.571 | 252.3 | -43.1 | -10.81 | 1.197 | 63.2 | 0.606 | 1.854 | 75.0 | 176.0 | --- | --- | 2.08 | 0.367 | 96.1 | 123.5 | 3.8 | 0.202 |
| 4-3660 | 4-4060 | 0.563 | 252.9 | -43.9 | -10.95 | 1.197 | 63.7 | 0.600 | 1.851 | 73.8 | 178.5 | --- | --- | 2.12 | 0.368 | 92.3 | 121.2 | 4.0 | 0.196 |
| 4-3660 | 4-4080 | 0.555 | 253.7 | -44.7 | -11.09 | 1.197 | 64.3 | 0.595 | 1.852 | 72.4 | 180.8 | --- | 2.954 | 2.16 | 0.370 | 88.8 | 119.2 | 4.2 | 0.192 |
| 4-3660 | 4-4100 | 0.546 | 254.6 | -45.6 | -11.24 | 1.197 | 65.0 | 0.590 | 1.857 | 70.9 | 183.0 | --- | 2.952 | 2.21 | 0.374 | 85.6 | 117.5 | 4.3 | 0.191 |
| 4-3660 | 4-4120 | 0.538 | 255.6 | -46.6 | -11.41 | 1.198 | 65.6 | 0.586 | 1.864 | 69.2 | 185.2 | --- | 2.955 | 2.28 | 0.380 | 82.8 | 116.2 | 4.5 | 0.190 |
| 4-3660 | 4-4140 | 0.530 | 256.8 | -47.6 | -11.58 | 1.199 | 66.3 | 0.581 | 1.873 | 67.5 | 187.2 | --- | 2.962 | 2.36 | 0.386 | 80.2 | 115.3 | 4.7 | 0.191 |
| 4-3660 | 4-4160 | 0.521 | 258.0 | -48.7 | -11.77 | 1.201 | 67.0 | 0.577 | 1.883 | 65.6 | 189.2 | --- | 2.971 | 2.46 | 0.393 | 77.9 | 114.9 | 4.9 | 0.193 |
| 4-3660 | 4-4180 | 0.513 | 259.3 | -49.9 | -11.98 | 1.202 | 67.7 | 0.574 | 1.895 | 63.7 | 191.1 | --- | 2.982 | 2.58 | 0.400 | 75.8 | 114.8 | 5.1 | 0.195 |
| 4-3660 | 4-4200 | 0.505 | 260.8 | -51.2 | -12.21 | 1.203 | 68.4 | 0.570 | 1.908 | 61.7 | 193.0 | --- | 2.995 | 2.72 | 0.408 | 73.9 | 115.0 | 5.4 | 0.198 |
| 4-3660 | 4-4220 | 0.497 | 262.4 | -52.6 | -12.47 | 1.205 | 69.2 | 0.567 | 1.922 | 59.6 | 194.8 | --- | 3.010 | 2.90 | 0.416 | 72.3 | 115.7 | 5.7 | 0.202 |
| 4-3660 | 4-4240 | 0.490 | 264.1 | -54.1 | -12.78 | 1.207 | 70.0 | 0.563 | 1.936 | 57.4 | 196.6 | --- | 3.026 | 3.13 | 0.424 | 70.8 | 116.6 | 6.1 | 0.206 |
| 4-3660 | 4-4260 | 0.484 | 266.0 | -55.8 | -13.14 | 1.208 | 70.8 | 0.560 | 1.950 | 55.2 | 198.3 | --- | 3.043 | 3.41 | 0.432 | 69.4 | 117.8 | 6.6 | 0.210 |
| 4-3660 | 4-4280 | 0.478 | 268.0 | -57.8 | -13.58 | 1.210 | 71.6 | 0.557 | 1.966 | 52.9 | 200.0 | --- | 3.061 | 3.77 | 0.441 | 68.2 | 119.3 | 7.2 | 0.215 |
| 4-3660 | 4-4300 | 0.474 | 270.2 | -60.0 | -14.13 | 1.211 | 72.5 | 0.555 | 1.981 | 50.5 | 201.7 | --- | 3.080 | 4.25 | 0.449 | 67.1 | 121.0 | 8.0 | 0.220 |
| 4-3660 | 4-4320 | 0.472 | 272.5 | -62.6 | -14.86 | 1.213 | 73.3 | 0.552 | 1.997 | 48.0 | 203.3 | --- | 3.099 | 4.89 | 0.458 | 66.1 | 123.0 | 9.1 | 0.226 |
| 4-3660 | 4-4340 | 0.474 | 274.9 | -65.8 | -15.86 | 1.215 | 74.2 | 0.550 | 2.013 | 45.5 | 204.9 | --- | 3.119 | 5.82 | 0.466 | 65.2 | 125.3 | 10.6 | 0.232 |
| 4-3660 | 4-4360 | 0.484 | 277.1 | -69.9 | -17.36 | 1.216 | 75.1 | 0.548 | 2.029 | 42.9 | 206.5 | --- | 3.139 | 7.25 | 0.474 | 64.4 | 127.8 | 13.0 | 0.240 |
| 4-3660 | 4-4380 | 0.509 | 277.8 | -75.6 | -19.88 | 1.218 | 76.0 | 0.546 | 2.045 | 40.3 | 208.1 | --- | 3.160 | 9.69 | 0.483 | 63.7 | 130.7 | 16.8 | 0.252 |
| 4-3660 | 4-4400 | 0.576 | 261.3 | -84.1 | -25.04 | 1.220 | 76.9 | 0.544 | 2.061 | 37.6 | 209.6 | --- | 3.182 | 14.77 | 0.491 | 63.0 | 134.7 | 23.8 | 0.276 |
| 4-3660 | 4-4420 | 0.826 | 143.2 | -75.3 | -41.02 | 1.221 | 77.8 | 0.543 | 2.077 | 35.1 | 211.1 | --- | 3.205 | 30.67 | 0.499 | 62.3 | 144.2 | 37.6 | 0.369 |
| 4-3660 | 4-4440 | 1.051 | 233.6 | 55.4 | 55.07 | 1.223 | 79.5 | 0.539 | 2.093 | 30.3 | 212.5 | --- | 3.221 | -65.50 | 0.507 | 62.0 | 163.7 | -41.2 | 0.618 |
| 4-3660 | 4-4460 | 0.357 | 290.1 | 15.8 | 10.39 | 1.224 | 80.2 | 0.539 | 2.110 | 28.2 | 214.0 | --- | 3.248 | -20.89 | 0.515 | 61.4 | 145.9 | -30.1 | 0.321 |
| 4-3660 | 4-4480 | 0.288 | 302.2 | -15.0 | 1.20 | 1.226 | 81.2 | 0.539 | 2.126 | 25.3 | 215.3 | --- | 3.272 | -11.79 | 0.522 | 60.9 | 145.9 | -19.0 | 0.286 |
| 4-3660 | 4-4500 | 0.282 | 310.6 | -29.4 | -2.49 | 1.227 | 82.3 | 0.539 | 2.142 | 22.1 | 216.7 | --- | 3.296 | -8.18 | 0.529 | 60.5 | 148.4 | -13.5 | 0.281 |
| 4-3660 | 4-4520 | 0.282 | 318.6 | -36.7 | -4.49 | 1.228 | 83.4 | 0.539 | 2.158 | 18.9 | 218.0 | --- | 3.322 | -6.27 | 0.537 | 60.0 | 151.5 | -10.3 | 0.283 |
| 4-3660 | 4-4540 | 0.284 | 326.7 | -40.6 | -5.74 | 1.230 | 84.6 | 0.540 | 2.174 | 15.5 | 219.2 | --- | 3.348 | -5.09 | 0.543 | 59.6 | 154.9 | -8.3 | 0.287 |
| 4-3660 | 4-4560 | 0.285 | 335.0 | -42.5 | -6.62 | 1.231 | 85.8 | 0.541 | 2.191 | 12.0 | 220.4 | --- | 3.375 | -4.31 | 0.550 | 59.2 | 158.4 | -7.0 | 0.293 |
| 4-3660 | 4-4580 | 0.287 | 343.3 | -43.0 | -7.27 | 1.233 | 87.0 | 0.542 | 2.207 | 8.4 | 221.5 | --- | 3.403 | -3.75 | 0.556 | 58.8 | 162.1 | -6.0 | 0.300 |
| 4-3670 | 4-3830 | 0.828 | 261.2 | -36.5 | -10.38 | 1.330 | 52.4 | 0.877 | 4.944 | 81.7 | 134.4 | --- | --- | 0.37 | 0.688 | 148.3 | 140.0 | 0.2 | 0.603 |
| 4-3670 | 4-3850 | 0.790 | 259.1 | -36.7 | -10.41 | 1.287 | 53.0 | 0.811 | 3.182 | 84.9 | 141.3 | --- | --- | 0.36 | 0.600 | 144.1 | 139.3 | 0.2 | 0.516 |
| 4-3670 | 4-3870 | 0.762 | 257.6 | -36.9 | -10.43 | 1.257 | 53.6 | 0.767 | 2.561 | 87.1 | 147.3 | --- | --- | 0.34 | 0.532 | 139.4 | 138.3 | 0.3 | 0.447 |
| 4-3670 | 4-3890 | 0.740 | 256.7 | -37.2 | -10.46 | 1.236 | 54.1 | 0.736 | 2.256 | 88.6 | 152.4 | --- | --- | 0.33 | 0.479 | 134.4 | 137.0 | 0.3 | 0.392 |
| 4-3670 | 4-3910 | 0.722 | 256.1 | -37.4 | -10.48 | 1.221 | 54.7 | 0.713 | 2.082 | 89.4 | 156.9 | --- | --- | 0.32 | 0.438 | 129.1 | 135.4 | 0.3 | 0.348 |
| 4-3670 | 4-3930 | 0.707 | 255.8 | 37.7 | -10.50 | 1.210 | 55.3 | 0.696 | 1.976 | 89.7 | 160.9 | --- | --- | 0.31 | 0.407 | 123.6 | 133.5 | 0.3 | 0.312 |
| 4-3670 | 4-3950 | 0.693 | 255.9 | -38.1 | -10.52 | 1.202 | 55.8 | 0.682 | 1.908 | 89.6 | 164.5 | --- | --- | 0.31 | 0.384 | 118.0 | 131.3 | 0.4 | 0.284 |
| 4-3670 | 4-3970 | 0.680 | 256.1 | -38.5 | -10.54 | 1.197 | 56.4 | 0.671 | 1.865 | 89.1 | 167.7 | --- | --- | 0.30 | 0.368 | 112.5 | 128.9 | 0.4 | 0.261 |
| 4-3670 | 4-3990 | 0.669 | 256.5 | -38.9 | -10.56 | 1.194 | 57.1 | 0.661 | 1.838 | 88.3 | 170.6 | --- | --- | 0.30 | 0.358 | 107.2 | 126.5 | 0.4 | 0.243 |
| 4-3670 | 4-4010 | 0.657 | 257.0 | -39.3 | -10.58 | 1.192 | 57.7 | 0.652 | 1.821 | 87.3 | 173.3 | --- | --- | 0.30 | 0.352 | 102.2 | 124.0 | 0.4 | 0.230 |
| 4-3670 | 4-4030 | 0.646 | 257.7 | -39.8 | -10.60 | 1.191 | 58.4 | 0.645 | 1.813 | 86.1 | 175.8 | --- | --- | 0.30 | 0.350 | 97.5 | 121.7 | 0.5 | 0.220 |
| 4-3670 | 4-4050 | 0.635 | 258.5 | -40.3 | -10.62 | 1.191 | 59.0 | 0.638 | 1.811 | 84.8 | 178.2 | --- | --- | 0.30 | 0.350 | 93.2 | 119.5 | 0.5 | 0.213 |
| 4-3670 | 4-4070 | 0.624 | 259.4 | -40.9 | -10.64 | 1.191 | 59.7 | 0.631 | 1.813 | 83.2 | 180.4 | --- | 2.957 | 0.30 | 0.353 | 89.3 | 117.6 | 0.5 | 0.208 |
| 4-3670 | 4-4090 | 0.613 | 260.4 | -41.4 | -10.66 | 1.192 | 60.5 | 0.625 | 1.818 | 81.6 | 182.5 | --- | 2.955 | 0.30 | 0.358 | 85.8 | 116.1 | 0.5 | 0.206 |
| 4-3670 | 4-4110 | 0.602 | 261.5 | -42.0 | -10.68 | 1.193 | 61.2 | 0.619 | 1.826 | 79.9 | 184.5 | --- | 2.958 | 0.31 | 0.364 | 82.7 | 114.9 | 0.5 | 0.204 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3670 | 4-4130 | 0.590 | 262.6 | -42.6 | -10.70 | 1.194 | 61.9 | 0.614 | 1.837 | 78.0 | 186.5 | --- | 2.964 | 0.31 | 0.370 | 79.9 | 114.1 | 0.6 | 0.204 |
| 4-3670 | 4-4150 | 0.579 | 263.9 | -43.3 | -10.72 | 1.195 | 62.7 | 0.609 | 1.848 | 76.1 | 188.4 | --- | 2.973 | 0.32 | 0.378 | 77.4 | 113.7 | 0.6 | 0.206 |
| 4-3670 | 4-4170 | 0.568 | 265.3 | -44.0 | -10.75 | 1.197 | 63.5 | 0.604 | 1.861 | 74.1 | 190.2 | --- | 2.985 | 0.33 | 0.386 | 75.2 | 113.6 | 0.6 | 0.207 |
| 4-3670 | 4-4190 | 0.556 | 266.8 | -44.7 | -10.77 | 1.199 | 64.3 | 0.599 | 1.875 | 72.0 | 192.0 | --- | 2.998 | 0.34 | 0.395 | 73.2 | 113.9 | 0.6 | 0.210 |
| 4-3670 | 4-4210 | 0.545 | 268.3 | -45.4 | -10.80 | 1.200 | 65.1 | 0.594 | 1.890 | 69.9 | 193.8 | --- | 3.013 | 0.36 | 0.403 | 71.5 | 114.6 | 0.6 | 0.213 |
| 4-3670 | 4-4230 | 0.533 | 270.0 | -46.2 | -10.83 | 1.202 | 66.0 | 0.590 | 1.905 | 67.7 | 195.5 | --- | 3.029 | 0.38 | 0.412 | 70.0 | 115.5 | 0.7 | 0.216 |
| 4-3670 | 4-4250 | 0.522 | 271.9 | -47.0 | -10.87 | 1.204 | 66.8 | 0.585 | 1.921 | 65.4 | 197.2 | --- | 3.046 | 0.40 | 0.421 | 68.6 | 116.7 | 0.7 | 0.219 |
| 4-3670 | 4-4270 | 0.510 | 273.8 | -47.8 | -10.91 | 1.206 | 67.7 | 0.581 | 1.938 | 63.1 | 198.8 | --- | 3.064 | 0.43 | 0.430 | 67.4 | 118.2 | 0.8 | 0.223 |
| 4-3670 | 4-4290 | 0.499 | 276.0 | -48.7 | -10.95 | 1.208 | 68.6 | 0.577 | 1.954 | 60.7 | 200.5 | --- | 3.083 | 0.46 | 0.439 | 66.3 | 119.8 | 0.8 | 0.227 |
| 4-3670 | 4-4310 | 0.487 | 278.3 | -49.6 | -11.01 | 1.209 | 69.5 | 0.574 | 1.971 | 58.2 | 202.1 | --- | 3.102 | 0.50 | 0.448 | 65.3 | 121.7 | 0.9 | 0.231 |
| 4-3670 | 4-4330 | 0.476 | 280.8 | -50.6 | -11.08 | 1.211 | 70.4 | 0.570 | 1.988 | 55.7 | 203.7 | --- | 3.121 | 0.56 | 0.457 | 64.4 | 123.8 | 1.0 | 0.235 |
| 4-3670 | 4-4350 | 0.464 | 283.6 | -51.6 | -11.16 | 1.213 | 71.3 | 0.567 | 2.005 | 53.1 | 205.2 | --- | 3.142 | 0.64 | 0.466 | 63.6 | 126.1 | 1.1 | 0.240 |
| 4-3670 | 4-4370 | 0.453 | 286.6 | -52.7 | -11.28 | 1.215 | 72.3 | 0.564 | 2.022 | 50.4 | 206.8 | --- | 3.162 | 0.74 | 0.475 | 62.9 | 128.5 | 1.3 | 0.244 |
| 4-3670 | 4-4390 | 0.443 | 289.9 | -54.0 | -11.45 | 1.216 | 73.3 | 0.561 | 2.040 | 47.7 | 208.3 | --- | 3.183 | 0.89 | 0.484 | 62.3 | 131.1 | 1.5 | 0.249 |
| 4-3670 | 4-4410 | 0.434 | 293.7 | -55.4 | -11.71 | 1.218 | 74.3 | 0.558 | 2.057 | 44.8 | 209.8 | --- | 3.204 | 1.14 | 0.492 | 61.7 | 133.9 | 2.0 | 0.253 |
| 4-3670 | 4-4430 | 0.427 | 297.9 | -57.3 | -12.18 | 1.220 | 75.3 | 0.555 | 2.074 | 42.0 | 211.3 | --- | 3.226 | 1.60 | 0.500 | 61.2 | 136.8 | 2.7 | 0.259 |
| 4-3670 | 4-4450 | 0.428 | 302.9 | -60.8 | -13.30 | 1.221 | 76.3 | 0.553 | 2.091 | 39.0 | 212.7 | --- | 3.248 | 2.71 | 0.508 | 60.8 | 139.8 | 4.6 | 0.264 |
| 4-3670 | 4-4470 | 0.502 | 311.4 | -75.1 | -19.93 | 1.223 | 77.4 | 0.551 | 2.109 | 36.0 | 214.1 | --- | 3.271 | 9.33 | 0.516 | 60.4 | 143.9 | 15.0 | 0.282 |
| 4-3670 | 4-4490 | 0.331 | 307.2 | -35.5 | -4.36 | 1.225 | 78.5 | 0.549 | 2.126 | 32.8 | 215.5 | --- | 3.293 | -6.25 | 0.524 | 60.0 | 146.6 | -10.2 | 0.280 |
| 4-3670 | 4-4510 | 0.346 | 315.7 | -48.4 | -8.28 | 1.226 | 79.6 | 0.548 | 2.143 | 29.6 | 216.9 | --- | 3.317 | -2.34 | 0.531 | 59.6 | 149.6 | -3.8 | 0.280 |
| 4-3670 | 4-4530 | 0.344 | 322.6 | -51.1 | -9.19 | 1.228 | 80.8 | 0.547 | 2.160 | 26.3 | 218.2 | --- | 3.341 | -1.44 | 0.539 | 59.3 | 153.0 | -2.3 | 0.285 |
| 4-3670 | 4-4550 | 0.339 | 329.6 | -52.0 | -9.60 | 1.229 | 82.0 | 0.546 | 2.177 | 22.9 | 219.4 | --- | 3.366 | -1.04 | 0.546 | 59.0 | 156.6 | -1.7 | 0.291 |
| 4-3670 | 4-4570 | 0.333 | 336.8 | -52.0 | -9.84 | 1.230 | 83.2 | 0.546 | 2.194 | 19.4 | 220.6 | --- | 3.392 | -0.82 | 0.552 | 58.7 | 160.2 | -1.3 | 0.297 |
| 4-3670 | 4-4590 | 0.328 | 344.3 | -51.3 | -9.99 | 1.232 | 84.4 | 0.547 | 2.210 | 15.7 | 221.7 | --- | 3.419 | -0.68 | 0.558 | 58.4 | 164.0 | -1.1 | 0.303 |
| 4-3680 | 4-3840 | 0.934 | 262.8 | -35.2 | -11.95 | 1.304 | 45.5 | 0.873 | 3.744 | 98.0 | 143.2 | --- | --- | -2.05 | 0.638 | 150.0 | 137.0 | -1.1 | 0.590 |
| 4-3680 | 4-3860 | 0.891 | 261.6 | -35.4 | -11.78 | 1.265 | 46.5 | 0.825 | 2.723 | 100.1 | 149.0 | --- | --- | -1.93 | 0.554 | 145.4 | 136.0 | -1.2 | 0.507 |
| 4-3680 | 4-3880 | 0.859 | 260.9 | -35.6 | -11.62 | 1.238 | 47.4 | 0.792 | 2.301 | 101.3 | 153.9 | --- | --- | -1.83 | 0.488 | 140.3 | 134.6 | -1.3 | 0.442 |
| 4-3680 | 4-3900 | 0.833 | 260.5 | -35.8 | -11.48 | 1.220 | 48.3 | 0.767 | 2.081 | 101.9 | 158.2 | --- | --- | -1.75 | 0.438 | 134.7 | 133.0 | -1.4 | 0.390 |
| 4-3680 | 4-3920 | 0.811 | 260.5 | -36.0 | -11.35 | 1.207 | 49.1 | 0.748 | 1.953 | 101.9 | 161.9 | --- | --- | -1.68 | 0.400 | 128.8 | 131.1 | -1.5 | 0.349 |
| 4-3680 | 4-3940 | 0.792 | 260.7 | -36.2 | -11.23 | 1.198 | 49.9 | 0.733 | 1.874 | 101.5 | 165.2 | --- | --- | -1.63 | 0.372 | 122.7 | 129.0 | -1.6 | 0.316 |
| 4-3680 | 4-3960 | 0.775 | 261.1 | -36.5 | -11.11 | 1.192 | 50.7 | 0.720 | 1.825 | 100.8 | 168.2 | --- | --- | -1.58 | 0.352 | 116.5 | 126.7 | -1.7 | 0.290 |
| 4-3680 | 4-3980 | 0.759 | 261.6 | -36.8 | -11.01 | 1.18[illegible] | 51.5 | 0.709 | 1.795 | 99.8 | 170.9 | --- | --- | -1.54 | 0.339 | 110.5 | 124.3 | -1.8 | 0.270 |
| 4-3680 | 4-4000 | 0.745 | 262.3 | -37.1 | -10.90 | 1.185 | 52.3 | 0.699 | 1.777 | 98.6 | 173.4 | --- | --- | -1.51 | 0.332 | 104.7 | 122.0 | -1.9 | 0.255 |
| 4-3680 | 4-4020 | 0.730 | 263.1 | -37.4 | -10.80 | 1.184 | 53.1 | 0.690 | 1.768 | 97.3 | 175.7 | --- | --- | -1.49 | 0.329 | 99.3 | 119.8 | -2.0 | 0.243 |
| 4-3680 | 4-4040 | 0.716 | 263.9 | -37.7 | -10.71 | 1.184 | 54.0 | 0.681 | 1.766 | 95.8 | 177.9 | --- | --- | -1.47 | 0.329 | 94.4 | 117.8 | -2.1 | 0.235 |
| 4-3680 | 4-4060 | 0.703 | 264.9 | -38.1 | -10.61 | 1.184 | 54.8 | 0.673 | 1.769 | 94.1 | 180.0 | --- | 2.960 | -1.46 | 0.332 | 90.0 | 116.0 | -2.1 | 0.229 |
| 4-3680 | 4-4080 | 0.689 | 265.9 | -38.4 | -10.52 | 1.185 | 55.6 | 0.666 | 1.775 | 92.4 | 182.0 | --- | 2.957 | -1.46 | 0.337 | 86.0 | 114.6 | -2.2 | 0.225 |
| 4-3680 | 4-4100 | 0.676 | 267.1 | -38.8 | -10.42 | 1.186 | 56.5 | 0.659 | 1.784 | 90.5 | 183.9 | --- | 2.960 | -1.46 | 0.344 | 82.5 | 113.6 | -2.2 | 0.223 |
| 4-3680 | 4-4120 | 0.662 | 268.3 | -39.1 | -10.32 | 1.188 | 57.3 | 0.652 | 1.796 | 88.6 | 185.8 | --- | 2.966 | -1.47 | 0.352 | 79.4 | 112.9 | -2.3 | 0.223 |
| 4-3680 | 4-4140 | 0.649 | 269.5 | -39.5 | -10.23 | 1.190 | 58.2 | 0.645 | 1.808 | 86.6 | 187.6 | --- | 2.976 | -1.48 | 0.360 | 76.7 | 112.6 | -2.3 | 0.223 |
| 4-3680 | 4-4160 | 0.635 | 270.9 | -39.9 | -10.12 | 1.191 | 59.1 | 0.639 | 1.823 | 84.5 | 189.3 | --- | 2.988 | -1.51 | 0.369 | 74.4 | 112.6 | -2.4 | 0.224 |
| 4-3680 | 4-4180 | 0.621 | 272.3 | -40.2 | -10.02 | 1.193 | 59.9 | 0.633 | 1.838 | 82.4 | 191.0 | --- | 3.001 | -1.54 | 0.379 | 72.3 | 112.9 | -2.5 | 0.226 |
| 4-3680 | 4-4200 | 0.607 | 273.8 | -40.6 | -9.90 | 1.195 | 60.8 | 0.627 | 1.854 | 80.2 | 192.7 | --- | 3.017 | -1.58 | 0.388 | 70.5 | 113.6 | -2.5 | 0.228 |
| 4-3680 | 4-4220 | 0.593 | 275.3 | -40.9 | -9.78 | 1.197 | 61.7 | 0.621 | 1.871 | 77.9 | 194.3 | --- | 3.033 | -1.63 | 0.398 | 68.8 | 114.6 | -2.6 | 0.231 |
| 4-3680 | 4-4240 | 0.579 | 277.0 | -41.3 | -9.65 | 1.199 | 62.6 | 0.616 | 1.888 | 75.6 | 196.0 | --- | 3.050 | -1.69 | 0.408 | 67.4 | 115.8 | -2.7 | 0.233 |
| 4-3680 | 4-4260 | 0.565 | 278.7 | -41.6 | -9.51 | 1.201 | 63.6 | 0.611 | 1.905 | 73.2 | 197.6 | --- | 3.069 | -1.76 | 0.418 | 66.2 | 117.2 | -2.9 | 0.237 |
| 4-3680 | 4-4280 | 0.551 | 280.6 | -41.8 | -9.35 | 1.203 | 64.5 | 0.605 | 1.923 | 70.8 | 199.2 | --- | 3.087 | -1.86 | 0.428 | 65.1 | 118.9 | -3.0 | 0.240 |
| 4-3680 | 4-4300 | 0.536 | 282.6 | -42.1 | -9.18 | 1.205 | 65.5 | 0.600 | 1.941 | 68.3 | 200.8 | --- | 3.107 | -1.97 | 0.438 | 64.1 | 120.8 | -3.2 | 0.244 |
| 4-3680 | 4-4320 | 0.521 | 284.6 | -42.2 | -8.97 | 1.207 | 66.4 | 0.596 | 1.959 | 65.8 | 202.3 | --- | 3.126 | -2.12 | 0.447 | 63.3 | 122.8 | -3.4 | 0.247 |
| 4-3680 | 4-4340 | 0.505 | 286.8 | -42.3 | -8.73 | 1.209 | 67.4 | 0.591 | 1.978 | 63.2 | 203.9 | --- | 3.146 | -2.30 | 0.457 | 62.5 | 125.1 | -3.7 | 0.251 |
| 4-3680 | 4-4360 | 0.490 | 289.2 | -42.2 | -8.44 | 1.211 | 68.4 | 0.586 | 1.996 | 60.5 | 205.4 | --- | 3.167 | -2.53 | 0.466 | 61.9 | 127.5 | -4.1 | 0.255 |
| 4-3680 | 4-4380 | 0.473 | 291.6 | -41.9 | -8.07 | 1.213 | 69.4 | 0.582 | 2.015 | 57.8 | 206.9 | --- | 3.188 | -2.84 | 0.475 | 61.3 | 130.1 | -4.6 | 0.259 |
| 4-3680 | 4-4400 | 0.457 | 294.2 | -41.2 | -7.60 | 1.215 | 70.4 | 0.578 | 2.033 | 55.0 | 208.4 | --- | 3.208 | -3.25 | 0.484 | 60.8 | 132.8 | -5.2 | 0.264 |
| 4-3680 | 4-4420 | 0.439 | 296.9 | -40.0 | -6.95 | 1.217 | 71.4 | 0.574 | 2.051 | 52.2 | 209.9 | --- | 3.230 | -3.84 | 0.493 | 60.3 | 135.7 | -6.1 | 0.269 |
| 4-3680 | 4-4440 | 0.419 | 299.5 | -37.9 | -6.00 | 1.219 | 72.5 | 0.571 | 2.070 | 49.3 | 211.3 | --- | 3.251 | -4.74 | 0.501 | 59.9 | 138.7 | -7.5 | 0.274 |
| 4-3680 | 4-4460 | 0.398 | 301.9 | -33.7 | -4.43 | 1.220 | 73.6 | 0.568 | 2.088 | 46.3 | 212.8 | --- | 3.273 | -6.25 | 0.510 | 59.5 | 142.0 | -9.8 | 0.281 |
| 4-3680 | 4-4480 | 0.375 | 303.1 | -24.3 | -1.33 | 1.[illegible] | 74.7 | 0.565 | 2.106 | 43.2 | 214.2 | --- | 3.295 | -9.29 | 0.518 | 59.2 | 145.7 | -14.2 | 0.292 |
| 4-3680 | 4-4500 | 0.388 | 298.4 | 3.9 | 7.75 | 1.22[illegible] | 75.8 | 0.562 | 2.124 | 40.2 | 215.6 | --- | 3.318 | -18.32 | 0.526 | 58.9 | 151.6 | -25.3 | 0.331 |
| 4-3680 | 4-4540 | 0.609 | 353.9 | -82.6 | -27.29 | 1.22[illegible] | 78.2 | 0.557 | 2.160 | 33.2 | 218.2 | --- | 3.363 | 16.85 | 0.540 | 58.5 | 158.1 | 23.6 | 0.333 |
| 4-3680 | 4-4560 | 0.480 | 342.0 | -70.6 | -19.14 | 1.228 | 79.4 | 0.555 | 2.178 | 29.9 | 219.5 | --- | 3.387 | 8.76 | 0.547 | 58.3 | 159.5 | 13.2 | 0.311 |
| 4-3680 | 4-4580 | 0.432 | 344.6 | -64.9 | -16.23 | 1.230 | 80.6 | 0.554 | 2.195 | 26.4 | 220.7 | --- | 3.412 | 5.91 | 0.554 | 58.1 | 162.7 | 9.0 | 0.310 |
| 4-3680 | 4-4600 | 0.403 | 349.3 | -61.2 | -14.73 | 1.231 | 81.9 | 0.554 | 2.213 | 22.8 | 221.9 | --- | 3.438 | 4.47 | 0.560 | 57.8 | 166.3 | 6.8 | 0.314 |
| 4-3690 | 4-3850 | 1.044 | 265.5 | -34.2 | -14.22 | 1.282 | 38.4 | 0.888 | 3.087 | 113.6 | 151.4 | --- | --- | -5.18 | 0.592 | 152.5 | 133.7 | -2.4 | 0.587 |
| 4-3690 | 4-3870 | 0.997 | 265.1 | -34.3 | -13.72 | 1.246 | 39.8 | 0.853 | 2.413 | 114.4 | 155.9 | --- | --- | -4.79 | 0.509 | 147.5 | 132.3 | -2.6 | 0.508 |
| 4-3690 | 4-3890 | 0.959 | 264.9 | -34.5 | -13.28 | 1.222 | 41.1 | 0.827 | 2.107 | 114.6 | 159.8 | --- | --- | -4.47 | 0.445 | 141.9 | 130.7 | -2.8 | 0.445 |
| 4-3690 | 4-3910 | 0.929 | 265.1 | -34.6 | -12.90 | 1.205 | 42.3 | 0.806 | 1.942 | 114.3 | 163.1 | --- | --- | -4.21 | 0.396 | 135.7 | 128.9 | -2.9 | 0.397 |
| 4-3690 | 4-3930 | 0.903 | 265.5 | -34.8 | -12.56 | 1.194 | 43.4 | 0.790 | 1.846 | 113.6 | 166.1 | --- | --- | -3.99 | 0.360 | 129.0 | 126.8 | -3.1 | 0.358 |
| 4-3690 | 4-3950 | 0.881 | 266.0 | -34.9 | -12.25 | 1.186 | 44.5 | 0.775 | 1.787 | 112.6 | 168.8 | --- | --- | -3.81 | 0.335 | 122.1 | 124.6 | -3.3 | 0.328 |
| 4-3690 | 4-3970 | 0.860 | 266.7 | -35.1 | -11.97 | 1.182 | 45.5 | 0.762 | 1.752 | 111.4 | 171.3 | --- | --- | -3.66 | 0.318 | 115.1 | 122.4 | -3.5 | 0.304 |
| 4-3690 | 4-3990 | 0.841 | 267.5 | -35.3 | -11.70 | 1.179 | 46.5 | 0.751 | 1.731 | 110.0 | 173.6 | --- | --- | -3.54 | 0.308 | 108.3 | 120.2 | -3.6 | 0.286 |
| 4-3690 | 4-4010 | 0.824 | 268.4 | -35.5 | -11.46 | 1.177 | 47.5 | 0.740 | 1.722 | 108.4 | 175.7 | --- | --- | -3.44 | 0.304 | 102.0 | 118.1 | -3.7 | 0.272 |
| 4-3690 | 4-4030 | 0.807 | 269.4 | -35.7 | -11.22 | 1.177 | 48.5 | 0.730 | 1.719 | 106.7 | 177.7 | --- | --- | -3.35 | 0.304 | 96.2 | 116.3 | -3.9 | 0.262 |
| 4-3690 | 4-4050 | 0.790 | 270.4 | -35.9 | -11.00 | 1.178 | 49.5 | 0.721 | 1.722 | 105.0 | 179.6 | --- | --- | -3.29 | 0.307 | 91.0 | 114.7 | -4.0 | 0.255 |
| 4-3690 | 4-4070 | 0.774 | 271.5 | -36.1 | -10.78 | 1.178 | 50.4 | 0.712 | 1.729 | 103.1 | 181.5 | --- | 2.959 | -3.24 | 0.313 | 86.4 | 113.4 | -4.0 | 0.250 |
| 4-3690 | 4-4090 | 0.758 | 272.6 | -36.3 | -10.57 | 1.180 | 51.4 | 0.703 | 1.739 | 101.1 | 183.2 | --- | 2.961 | -3.20 | 0.321 | 82.4 | 112.5 | -4.1 | 0.247 |
| 4-3690 | 4-4110 | 0.742 | 273.8 | -36.5 | -10.36 | 1.182 | 52.4 | 0.695 | 1.751 | 99.1 | 185.0 | --- | 2.968 | -3.18 | 0.329 | 78.9 | 111.9 | -4.2 | 0.245 |
| 4-3690 | 4-4130 | 0.727 | 275.1 | -36.7 | -10.15 | 1.183 | 53.3 | 0.687 | 1.765 | 97.0 | 186.7 | --- | 2.978 | -3.17 | 0.339 | 75.9 | 111.6 | -4.3 | 0.244 |
| 4-3690 | 4-4150 | 0.711 | 276.4 | -36.8 | -9.93 | 1.186 | 54.3 | 0.679 | 1.780 | 94.8 | 188.3 | --- | 2.990 | -3.17 | 0.350 | 73.3 | 111.7 | -4.3 | 0.244 |
| 4-3690 | 4-4170 | 0.695 | 277.7 | -37.0 | -9.72 | 1.188 | 55.3 | 0.672 | 1.797 | 92.6 | 189.9 | --- | 3.004 | -3.19 | 0.360 | 71.0 | 112.1 | -4.4 | 0.245 |
| 4-3690 | 4-4190 | 0.680 | 279.1 | -37.1 | -9.50 | 1.190 | 56.3 | 0.665 | 1.814 | 90.4 | 191.6 | --- | 3.020 | -3.23 | 0.371 | 69.1 | 112.8 | -4.5 | 0.247 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3690 | 4-4210 | 0.664 | 280.6 | -37.2 | -9.27 | 1.192 | 57.2 | 0.658 | 1.832 | 88.1 | 193.1 | --- | 3.037 | -3.28 | 0.382 | 67.4 | 113.7 | -4.7 | 0.249 |
| 4-3690 | 4-4230 | 0.648 | 282.1 | -37.3 | -9.04 | 1.194 | 58.2 | 0.651 | 1.850 | 85.7 | 194.7 | --- | 3.055 | -3.35 | 0.393 | 66.0 | 115.0 | -4.8 | 0.251 |
| 4-3690 | 4-4250 | 0.632 | 283.7 | -37.3 | -8.79 | 1.197 | 59.2 | 0.644 | 1.869 | 83.3 | 196.3 | --- | 3.073 | -3.44 | 0.404 | 64.7 | 116.4 | -4.9 | 0.254 |
| 4-3690 | 4-4270 | 0.615 | 285.3 | -37.3 | -8.52 | 1.199 | 60.2 | 0.638 | 1.888 | 80.9 | 197.8 | --- | 3.093 | -3.55 | 0.414 | 63.6 | 118.1 | -5.1 | 0.257 |
| 4-3690 | 4-4290 | 0.599 | 287.0 | -37.2 | -8.22 | 1.201 | 61.2 | 0.632 | 1.907 | 78.4 | 199.3 | --- | 3.112 | -3.70 | 0.425 | 62.6 | 119.9 | -5.4 | 0.260 |
| 4-3690 | 4-4310 | 0.582 | 288.8 | -37.0 | -7.90 | 1.203 | 62.3 | 0.626 | 1.927 | 75.8 | 200.9 | --- | 3.132 | -3.87 | 0.435 | 61.8 | 122.0 | -5.7 | 0.263 |
| 4-3690 | 4-4330 | 0.565 | 290.7 | -36.7 | -7.54 | 1.206 | 63.3 | 0.620 | 1.946 | 73.2 | 202.4 | --- | 3.153 | -4.09 | 0.445 | 61.1 | 124.2 | -6.0 | 0.266 |
| 4-3690 | 4-4350 | 0.548 | 292.6 | -36.3 | -7.14 | 1.208 | 64.3 | 0.614 | 1.966 | 70.6 | 203.9 | --- | 3.173 | -4.36 | 0.455 | 60.4 | 126.6 | -6.4 | 0.270 |
| 4-3690 | 4-4370 | 0.530 | 294.5 | -35.6 | -6.66 | 1.210 | 65.4 | 0.609 | 1.986 | 67.9 | 205.4 | --- | 3.194 | -4.69 | 0.465 | 59.9 | 129.2 | -6.9 | 0.274 |
| 4-3690 | 4-4390 | 0.512 | 296.6 | -34.7 | -6.10 | 1.212 | 66.4 | 0.603 | 2.005 | 65.1 | 206.9 | --- | 3.215 | -5.12 | 0.475 | 59.4 | 131.9 | -7.6 | 0.278 |
| 4-3690 | 4-4410 | 0.494 | 298.6 | -33.4 | -5.41 | 1.214 | 67.5 | 0.598 | 2.025 | 62.3 | 208.3 | --- | 3.236 | -5.68 | 0.484 | 59.0 | 134.7 | -8.4 | 0.282 |
| 4-3690 | 4-4430 | 0.474 | 300.6 | -31.6 | -4.54 | 1.216 | 68.6 | 0.594 | 2.044 | 59.4 | 209.8 | --- | 3.257 | -6.42 | 0.493 | 58.7 | 137.7 | -9.5 | 0.287 |
| 4-3690 | 4-4450 | 0.455 | 302.6 | -28.8 | -3.38 | 1.218 | 69.7 | 0.589 | 2.063 | 56.5 | 211.2 | --- | 3.279 | -7.45 | 0.502 | 58.4 | 140.9 | -10.9 | 0.293 |
| 4-3690 | 4-4470 | 0.435 | 304.2 | -24.5 | -1.75 | 1.219 | 70.8 | 0.585 | 2.083 | 53.5 | 212.7 | --- | 3.301 | -8.95 | 0.511 | 58.1 | 144.3 | -13.0 | 0.300 |
| 4-3690 | 4-4490 | 0.418 | 305.1 | -17.5 | 0.73 | 1.221 | 71.9 | 0.581 | 2.102 | 50.4 | 214.1 | --- | 3.323 | -11.31 | 0.519 | 57.9 | 148.0 | -16.1 | 0.311 |
| 4-3690 | 4-4510 | 0.413 | 304.1 | -4.9 | 5.06 | 1.223 | 73.0 | 0.577 | 2.121 | 47.4 | 215.4 | --- | 3.345 | -15.51 | 0.527 | 57.7 | 152.5 | -21.2 | 0.329 |
| 4-3690 | 4-4530 | 0.472 | 296.9 | 18.1 | 14.43 | 1.225 | 74.1 | 0.574 | 2.140 | 44.4 | 216.8 | --- | 3.369 | -24.75 | 0.535 | 57.5 | 159.5 | -30.0 | 0.378 |
| 4-3690 | 4-4550 | 0.901 | 261.6 | 44.4 | 44.64 | 1.226 | 75.0 | 0.573 | 2.159 | 41.9 | 218.1 | --- | 3.396 | -54.83 | 0.542 | 57.2 | 178.2 | -39.9 | 0.581 |
| 4-3690 | 4-4570 | 1.172 | 162.1 | -70.0 | -62.15 | 1.228 | 77.4 | 0.564 | 2.177 | 35.5 | 219.5 | --- | 3.406 | 52.09 | 0.549 | 57.6 | 181.1 | 40.2 | 0.566 |
| 4-3690 | 4-4590 | 0.713 | 38.7 | -84.5 | -33.69 | 1.230 | 78.3 | 0.564 | 2.196 | 32.8 | 220.7 | --- | 3.434 | 23.76 | 0.556 | 57.3 | 170.2 | 29.2 | 0.386 |
| 4-3690 | 4-4610 | 0.565 | 5.3 | -74.9 | -24.68 | 1.231 | 79.5 | 0.562 | 2.214 | 29.4 | 221.8 | --- | 3.459 | 14.89 | 0.562 | 57.2 | 170.7 | 20.3 | 0.349 |
| 4-3700 | 4-3860 | 1.157 | 269.2 | -33.3 | -17.68 | 1.263 | 31.2 | 0.914 | 2.691 | 128.1 | 158.6 | --- | --- | -9.50 | 0.550 | 155.9 | 130.3 | -3.6 | 0.596 |
| 4-3700 | 4-3880 | 1.104 | 269.3 | -33.4 | -16.59 | 1.230 | 33.0 | 0.888 | 2.197 | 127.7 | 161.8 | --- | --- | -8.58 | 0.466 | 150.6 | 128.7 | -3.8 | 0.518 |
| 4-3700 | 4-3900 | 1.062 | 269.7 | -33.5 | -15.69 | 1.207 | 34.6 | 0.867 | 1.962 | 126.9 | 164.7 | --- | --- | -7.85 | 0.403 | 144.4 | 126.9 | -4.0 | 0.459 |
| 4-3700 | 4-3920 | 1.027 | 270.2 | -33.6 | -14.93 | 1.192 | 36.1 | 0.849 | 1.833 | 125.8 | 167.3 | --- | --- | -7.26 | 0.355 | 137.5 | 125.0 | -4.2 | 0.412 |
| 4-3700 | 4-3940 | 0.998 | 270.9 | -33.7 | -14.27 | 1.183 | 37.5 | 0.834 | 1.758 | 124.5 | 169.6 | --- | --- | -6.78 | 0.321 | 129.9 | 122.9 | -4.4 | 0.375 |
| 4-3700 | 4-3960 | 0.971 | 271.8 | -33.8 | -13.69 | 1.176 | 38.9 | 0.819 | 1.713 | 123.0 | 171.7 | --- | --- | -6.38 | 0.297 | 121.9 | 120.8 | -4.6 | 0.347 |
| 4-3700 | 4-3980 | 0.947 | 272.7 | -33.9 | -13.17 | 1.173 | 40.1 | 0.806 | 1.688 | 121.3 | 173.8 | --- | --- | -6.06 | 0.282 | 113.9 | 118.7 | -4.8 | 0.325 |
| 4-3700 | 4-4000 | 0.925 | 273.7 | -34.0 | -12.71 | 1.171 | 41.3 | 0.794 | 1.675 | 119.6 | 175.6 | --- | --- | -5.78 | 0.275 | 106.2 | 116.8 | -5.0 | 0.308 |
| 4-3700 | 4-4020 | 0.905 | 274.7 | -34.1 | -12.27 | 1.170 | 42.5 | 0.783 | 1.672 | 117.7 | 177.5 | --- | --- | -5.55 | 0.274 | 99.0 | 115.1 | -5.1 | 0.295 |
| 4-3700 | 4-4040 | 0.885 | 275.8 | -34.2 | -11.87 | 1.170 | 43.7 | 0.772 | 1.674 | 115.7 | 179.2 | --- | --- | -5.36 | 0.278 | 92.7 | 113.6 | -5.2 | 0.286 |
| 4-3700 | 4-4060 | 0.866 | 277.0 | -34.3 | -11.50 | 1.171 | 44.8 | 0.762 | 1.681 | 113.7 | 180.9 | --- | 2.961 | -5.20 | 0.284 | 87.2 | 112.4 | -5.3 | 0.279 |
| 4-3700 | 4-4080 | 0.848 | 278.2 | -34.3 | -11.14 | 1.173 | 46.0 | 0.752 | 1.691 | 111.6 | 182.5 | --- | 2.962 | -5.08 | 0.293 | 82.4 | 111.6 | -5.4 | 0.274 |
| 4-3700 | 4-4100 | 0.829 | 279.4 | -34.4 | -10.79 | 1.175 | 47.1 | 0.742 | 1.704 | 109.5 | 184.1 | --- | 2.969 | -4.97 | 0.303 | 78.3 | 111.1 | -5.4 | 0.271 |
| 4-3700 | 4-4120 | 0.812 | 280.6 | -34.4 | -10.46 | 1.177 | 48.2 | 0.733 | 1.719 | 107.3 | 185.7 | --- | 2.978 | -4.90 | 0.314 | 74.9 | 110.9 | -5.5 | 0.270 |
| 4-3700 | 4-4140 | 0.794 | 281.9 | -34.4 | -10.13 | 1.179 | 49.3 | 0.724 | 1.735 | 105.1 | 187.3 | --- | 2.991 | -4.84 | 0.326 | 72.0 | 111.0 | -5.6 | 0.269 |
| 4-3700 | 4-4160 | 0.776 | 283.2 | -34.4 | -9.81 | 1.182 | 50.3 | 0.715 | 1.752 | 102.8 | 188.8 | --- | 3.006 | -4.81 | 0.338 | 69.5 | 111.4 | -5.7 | 0.269 |
| 4-3700 | 4-4180 | 0.759 | 284.6 | -34.4 | -9.49 | 1.184 | 51.4 | 0.707 | 1.771 | 100.5 | 190.3 | --- | 3.022 | -4.80 | 0.350 | 67.4 | 112.1 | -5.8 | 0.269 |
| 4-3700 | 4-4200 | 0.741 | 286.0 | -34.4 | -9.16 | 1.187 | 52.5 | 0.699 | 1.790 | 98.1 | 191.8 | --- | 3.040 | -4.81 | 0.363 | 65.6 | 113.1 | -5.9 | 0.271 |
| 4-3700 | 4-4220 | 0.724 | 287.4 | -34.3 | -8.83 | 1.189 | 53.6 | 0.690 | 1.809 | 95.7 | 193.3 | --- | 3.059 | -4.84 | 0.375 | 64.1 | 114.3 | -6.0 | 0.272 |
| 4-3700 | 4-4240 | 0.706 | 288.9 | -34.1 | -8.49 | 1.192 | 54.7 | 0.683 | 1.829 | 93.3 | 194 | --- | 3.078 | -4.89 | 0.387 | 62.8 | 115.8 | -6.1 | 0.274 |
| 4-3700 | 4-4260 | 0.688 | 290.4 | -34.0 | -8.14 | 1.194 | 55.7 | 0.675 | 1.850 | 90.8 | 19 .3 | --- | 3.098 | -4.98 | 0.399 | 61.7 | 117.4 | -6.3 | 0.276 |
| 4-3700 | 4-4280 | 0.671 | 291.9 | -33.7 | -7.77 | 1.197 | 56.8 | 0.667 | 1.870 | 88.3 | 197.8 | --- | 3.118 | -5.09 | 0.410 | 60.8 | 119.3 | -6.5 | 0.279 |
| 4-3700 | 4-4300 | 0.653 | 293.5 | -33.4 | -7.38 | 1.19, | 57.9 | 0.660 | 1.891 | 85.7 | 199.3 | --- | 3.139 | -5.23 | 0.421 | 60.0 | 121.3 | -6.8 | 0.281 |
| 4-3700 | 4-4320 | 0.634 | 295.1 | -32.9 | -6.96 | 1.202 | 59.0 | 0.653 | 1.911 | 83.1 | 200.7 | --- | 3.160 | -5.41 | 0.433 | 59.3 | 123.5 | -7.1 | 0.284 |
| 4-3700 | 4-4340 | 0.616 | 296.7 | -32.4 | -6.50 | 1.204 | 60.1 | 0.646 | 1.932 | 80.5 | 202.2 | --- | 3.181 | -5.64 | 0.443 | 58.7 | 125.8 | -7.5 | 0.287 |
| 4-3700 | 4-4360 | 0.597 | 298.4 | -31.7 | -5.99 | 1.206 | 61.2 | 0.639 | 1.953 | 77.8 | 203.7 | --- | 3.202 | -5.93 | 0.454 | 58.2 | 128.3 | -7.9 | 0.290 |
| 4-3700 | 4-4380 | 0.579 | 300.1 | -30.8 | -5.42 | 1.209 | 62.3 | 0.633 | 1.974 | 75.0 | 205.2 | --- | 3.223 | -6.28 | 0.464 | 57.8 | 131.0 | -8.4 | 0.293 |
| 4-3700 | 4-4400 | 0.559 | 301.8 | -29.7 | -4.76 | 1.211 | 63.4 | 0.627 | 1.994 | 72.2 | 206.6 | --- | 3.244 | -6.72 | 0.474 | 57.4 | 133.8 | -9.1 | 0.297 |
| 4-3700 | 4-4420 | 0.540 | 303.5 | -28.2 | -3.99 | 1.213 | 64.5 | 0.621 | 2.015 | 69.4 | 208.1 | --- | 3.266 | -7.28 | 0.484 | 57.1 | 136.7 | -9.8 | 0.301 |
| 4-3700 | 4-4440 | 0.521 | 305.1 | -26.2 | -3.07 | 1.215 | 65.6 | 0.615 | 2.036 | 66.5 | 209.5 | --- | 3.287 | -7.99 | 0.493 | 56.9 | 139.8 | -10.8 | 0.306 |
| 4-3700 | 4-4460 | 0.501 | 306.7 | -23.6 | -1.92 | 1.217 | 66.8 | 0.609 | 2.056 | 63.5 | 211.0 | --- | 3.309 | -8.94 | 0.502 | 56.7 | 143.1 | -12.1 | 0.311 |
| 4-3700 | 4-4480 | 0.482 | 308.0 | -20.0 | -0.44 | 1.219 | 67.9 | 0.604 | 2.076 | 60.5 | 212.4 | --- | 3.331 | -10.21 | 0.511 | 56.6 | 146.5 | -13.8 | 0.318 |
| 4-3700 | 4-4500 | 0.465 | 308.8 | -14.7 | 1.56 | 1.221 | 69.1 | 0.599 | 2.097 | 57.5 | 213.8 | --- | 3.352 | -12.01 | 0.520 | 56.4 | 150.2 | -16.0 | 0.326 |
| 4-3700 | 4-4520 | 0.455 | 308.7 | -7.0 | 4.46 | 1.223 | 70.3 | 0.594 | 2.117 | 54.4 | 215.2 | --- | 3.375 | -14.72 | 0.528 | 56.3 | 154.3 | -19.2 | 0.339 |
| 4-3700 | 4-4540 | 0.462 | 306.5 | 4.8 | 9.08 | 1.224 | 71.4 | 0.590 | 2.137 | 51.3 | 216.5 | --- | 3.398 | -19.14 | 0.536 | 56.2 | 159.3 | -23.9 | 0.361 |
| 4-3700 | 4-4560 | 0.528 | 299.1 | 22.2 | 17.56 | 1.226 | 72.5 | 0.587 | 2.156 | 48.3 | 217.8 | --- | 3.421 | -27.42 | 0.543 | 56.2 | 166.2 | -30.7 | 0.407 |
| 4-3700 | 4-4580 | 0.788 | 276.5 | 40.2 | 36.78 | 1.228 | 73.5 | 0.585 | 2.176 | 45.7 | 219.0 | --- | 3.448 | -46.44 | 0.550 | 56.0 | 179.5 | -38.3 | 0.534 |
| 4-3700 | 4-4620 | 1.032 | 155.9 | -79.7 | -53.09 | 1.231 | 77.5 | 0.571 | 2.214 | 34.8 | 221.7 | --- | 3.478 | 43.83 | 0.563 | 56.5 | 186.5 | 38.4 | 0.524 |
| 4-3710 | 4-3870 | 1.272 | 273.4 | -32.5 | -23.39 | 1.249 | 24.1 | 0.944 | 2.446 | 141.3 | 164.6 | --- | --- | -16.08 | 0.514 | 160.2 | 127.1 | -4.5 | 0.616 |
| 4-3710 | 4-3890 | 1.213 | 274.0 | -32.6 | -21.12 | 1.217 | 26.2 | 0.924 | 2.048 | 139.9 | 166.8 | --- | --- | -14.03 | 0.429 | 154.7 | 125.4 | -4.7 | 0.539 |
| 4-3710 | 4-3910 | 1.166 | 274.8 | -32.6 | -19.36 | 1.195 | 28.1 | 0.907 | 1.854 | 138.3 | 168.7 | --- | --- | -12.48 | 0.364 | 148.1 | 123.6 | -5.0 | 0.481 |
| 4-3710 | 4-3930 | 1.127 | 275.7 | -32.6 | -17.93 | 1.182 | 29.9 | 0.891 | 1.748 | 136.5 | 170.6 | --- | --- | -11.28 | 0.316 | 140.4 | 121.7 | -5.2 | 0.435 |
| 4-3710 | 4-3950 | 1.093 | 276.7 | -32.6 | -16.76 | 1.173 | 31.6 | 0.877 | 1.687 | 134.6 | 172.3 | --- | --- | -10.32 | 0.281 | 131.7 | 119.7 | -5.4 | 0.400 |
| 4-3710 | 4-3970 | 1.063 | 277.8 | -32.7 | -15.76 | 1.167 | 33.2 | 0.863 | 1.652 | 132.7 | 174.0 | --- | --- | -9.55 | 0.258 | 122.4 | 117.7 | -5.6 | 0.372 |
| 4-3710 | 4-3990 | 1.036 | 278.9 | -32.7 | -14.89 | 1.165 | 34.7 | 0.850 | 1.634 | 130.7 | 175.7 | --- | --- | -8.92 | 0.246 | 112.9 | 115.9 | -5.7 | 0.351 |
| 4-3710 | 4-4010 | 1.011 | 280.0 | -32.7 | -14.13 | 1.163 | 36.1 | 0.838 | 1.627 | 128.6 | 177.2 | --- | --- | -8.40 | 0.241 | 103.9 | 114.3 | -5.9 | 0.335 |
| 4-3710 | 4-4030 | 0.987 | 281.2 | -32.7 | -13.44 | 1.164 | 37.5 | 0.826 | 1.627 | 126.5 | 178.8 | --- | --- | -7.96 | 0.244 | 95.8 | 113.0 | -6.0 | 0.323 |
| 4-3710 | 4-4050 | 0.965 | 282.4 | -32.7 | -12.82 | 1.164 | 38.8 | 0.814 | 1.633 | 124.3 | 180.3 | --- | 2.963 | -7.60 | 0.250 | 88.8 | 111.9 | -6.1 | 0.314 |
| 4-3710 | 4-4070 | 0.944 | 283.7 | -32.6 | -12.25 | 1.166 | 40.1 | 0.803 | 1.643 | 122.1 | 181.8 | --- | 2.963 | -7.29 | 0.260 | 82.8 | 111.1 | -6.1 | 0.307 |
| 4-3710 | 4-4090 | 0.923 | 284.9 | -32.6 | -11.72 | 1.168 | 41.4 | 0.793 | 1.656 | 119.8 | 183.2 | --- | 2.968 | -7.04 | 0.272 | 77.9 | 110.6 | -6.2 | 0.302 |
| 4-3710 | 4-4110 | 0.^03 | 286.2 | -32.5 | -11.22 | 1.170 | 42.6 | 0.782 | 1.671 | 117.5 | 184.7 | --- | 2.978 | -6.83 | 0.285 | 73.8 | 110.5 | -6.3 | 0.299 |
| 4-3710 | 4-4130 | 0.883 | 287.5 | -32.4 | -10.74 | 1.173 | 43.9 | 0.772 | 1.688 | 115.2 | 186.1 | --- | 2.991 | -6.66 | 0.299 | 70.5 | 110.6 | -6.3 | 0.297 |
| 4-3710 | 4-4150 | 0.864 | 288.8 | -32.3 | -10.28 | 1.176 | 45.1 | 0.762 | 1.706 | 112.9 | 187.6 | --- | 3.006 | -6.53 | 0.313 | 67.7 | 111.0 | -6.4 | 0.296 |
| 4-3710 | 4-4170 | 0.844 | 290.1 | -32.2 | -9.84 | 1.178 | 46.3 | 0.752 | 1.725 | 110.5 | 189.0 | --- | 3.023 | -6.42 | 0.327 | 65.4 | 111.7 | -6.5 | 0.295 |
| 4-3710 | 4-4190 | 0.825 | 291.4 | -32.0 | -9.40 | 1.181 | 47.5 | 0.743 | 1.745 | 108.1 | 190.4 | --- | 3.041 | -6.35 | 0.340 | 63.5 | 112.7 | -6.5 | 0.296 |
| 4-3710 | 4-4210 | 0.806 | 292.8 | -31.8 | -8.97 | 1.184 | 48.6 | 0.734 | 1.766 | 105.6 | 191.8 | --- | 3.061 | -6.31 | 0.354 | 61.9 | 113.9 | -6.7 | 0.296 |
| 4-3710 | 4-4230 | 0.787 | 294.2 | -31.6 | -8.54 | 1.187 | 49.8 | 0.724 | 1.787 | 103.1 | 193.3 | --- | 3.081 | -6.29 | 0.367 | 60.6 | 115.3 | -6.8 | 0.297 |
| 4-3710 | 4-4250 | 0.768 | 295.6 | -31.3 | -8.11 | 1.190 | 51.0 | 0.716 | 1.808 | 100.6 | 194.7 | --- | 3.102 | -6.31 | 0.381 | 59.5 | 116.9 | -6.9 | 0.299 |
| 4-3710 | 4-4270 | 0.748 | 297.0 | -30.9 | -7.66 | 1.192 | 52.1 | 0.707 | 1.830 | 98.1 | 196.1 | --- | 3.123 | -6.36 | 0.393 | 58.5 | 118.7 | -7.1 | 0.300 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3710 | 4-4290 | 0.729 | 298.4 | -30.5 | -7.21 | 1.195 | 53.3 | 0.698 | 1.851 | 95.5 | 197.6 | --- | 3.145 | -6.44 | 0.406 | 57.7 | 120.7 | -7.3 | 0.302 |
| 4-3710 | 4-4310 | 0.710 | 299.9 | -30.1 | -6.73 | 1.198 | 54.5 | 0.690 | 1.873 | 92.9 | 199.0 | --- | 3.166 | -6.55 | 0.418 | 57.1 | 122.9 | -7.6 | 0.304 |
| 4-3710 | 4-4330 | 0.690 | 301.3 | -29.5 | -6.23 | 1.200 | 55.6 | 0.682 | 1.895 | 90.2 | 200.4 | --- | 3.188 | -6.71 | 0.430 | 56.6 | 125.2 | -7.9 | 0.306 |
| 4-3710 | 4-4350 | 0.671 | 302.8 | -28.8 | -5.69 | 1.203 | 56.8 | 0.674 | 1.917 | 87.5 | 201.9 | --- | 3.210 | -6.91 | 0.441 | 56.1 | 127.6 | -8.2 | 0.309 |
| 4-3710 | 4-4370 | 0.651 | 304.3 | -28.0 | -5.12 | 1.205 | 58.0 | 0.667 | 1.939 | 84.8 | 203.3 | --- | 3.231 | -7.17 | 0.452 | 55.8 | 130.2 | -8.6 | 0.312 |
| 4-3710 | 4-4390 | 0.631 | 305.8 | -27.0 | -4.49 | 1.208 | 59.1 | 0.659 | 1.961 | 82.0 | 204.8 | --- | 3.253 | -7.49 | 0.463 | 55.5 | 133.0 | -9.1 | 0.314 |
| 4-3710 | 4-4410 | 0.611 | 307.3 | -25.7 | -3.78 | 1.210 | 60.3 | 0.652 | 1.983 | 79.2 | 206.2 | --- | 3.275 | -7.89 | 0.473 | 55.3 | 135.9 | -9.7 | 0.318 |
| 4-3710 | 4-4430 | 0.591 | 308.8 | -24.2 | -2.99 | 1.212 | 61.5 | 0.645 | 2.004 | 76.3 | 207.7 | --- | 3.297 | -8.40 | 0.483 | 55.1 | 138.9 | -10.4 | 0.321 |
| 4-3710 | 4-4450 | 0.571 | 310.2 | -22.4 | -2.06 | 1.214 | 62.7 | 0.638 | 2.026 | 73.4 | 209.1 | --- | 3.318 | -9.03 | 0.493 | 55.0 | 142.0 | -11.2 | 0.325 |
| 4-3710 | 4-4470 | 0.551 | 311.5 | -20.0 | -0.97 | 1.217 | 63.9 | 0.631 | 2.047 | 70.4 | 210.5 | --- | 3.340 | -9.84 | 0.503 | 54.9 | 145.3 | -12.3 | 0.330 |
| 4-3710 | 4-4490 | 0.532 | 312.6 | -16.9 | 0.36 | 1.219 | 65.1 | 0.625 | 2.069 | 67.4 | 211.9 | --- | 3.362 | -10.90 | 0.512 | 54.8 | 148.8 | -13.6 | 0.335 |
| 4-3710 | 4-4510 | 0.515 | 313.4 | -12.9 | 2.03 | 1.221 | 66.3 | 0.619 | 2.090 | 64.3 | 213.3 | --- | 3.384 | -12.30 | 0.520 | 54.8 | 152.4 | -15.3 | 0.342 |
| 4-3710 | 4-4530 | 0.501 | 313.6 | -7.5 | 4.23 | 1.223 | 67.5 | 0.613 | 2.111 | 61.2 | 214.7 | --- | 3.406 | -14.23 | 0.529 | 54.8 | 156.3 | -17.6 | 0.351 |
| 4-3710 | 4-4550 | 0.495 | 312.9 | 0.1 | 7.29 | 1.224 | 68.7 | 0.608 | 2.132 | 58.1 | 216.1 | --- | 3.428 | -17.02 | 0.537 | 54.8 | 160.7 | -20.6 | 0.365 |
| 4-3710 | 4-4570 | 0.508 | 310.1 | 10.4 | 11.86 | 1.226 | 69.9 | 0.604 | 2.152 | 54.9 | 217.4 | --- | 3.452 | -21.32 | 0.544 | 54.9 | 165.8 | -24.7 | 0.387 |
| 4-3710 | 4-4590 | 0.570 | 303.0 | 24.0 | 19.42 | 1.228 | 71.0 | 0.599 | 2.173 | 51.9 | 218.7 | --- | 3.476 | -28.62 | 0.551 | 54.9 | 172.6 | -30.2 | 0.429 |
| 4-3710 | 4-4610 | 0.755 | 286.0 | 37.4 | 33.76 | 1.230 | 72.0 | 0.597 | 2.193 | 49.2 | 219.9 | --- | 3.502 | -42.70 | 0.558 | 54.8 | 183.4 | -36.4 | 0.521 |
| 4-3720 | 4-3880 | 1.387 | 278.1 | -31.8 | -34.04 | 1.239 | 17.2 | 0.969 | 2.298 | 153.0 | 169.6 | --- | --- | -27.64 | 0.488 | 165.1 | 124.5 | -5.2 | 0.646 |
| 4-3720 | 4-3900 | 1.322 | 279.2 | -31.7 | -29.02 | 1.207 | 19.5 | 0.956 | 1.949 | 150.8 | 170.8 | --- | --- | -22.86 | 0.399 | 159.8 | 122.8 | -5.4 | 0.569 |
| 4-3720 | 4-3920 | 1.270 | 280.3 | -31.7 | -25.41 | 1.186 | 21.7 | 0.942 | 1.778 | 148.6 | 172.0 | --- | --- | -19.51 | 0.331 | 153.1 | 121.0 | -5.6 | 0.510 |
| 4-3720 | 4-3940 | 1.226 | 281.5 | -31.6 | -22.69 | 1.173 | 23.8 | 0.929 | 1.684 | 146.3 | 173.2 | --- | --- | -17.04 | 0.279 | 144.8 | 119.1 | -5.8 | 0.465 |
| 4-3720 | 4-3960 | 1.188 | 282.7 | -31.5 | -20.56 | 1.165 | 25.7 | 0.916 | 1.632 | 144.1 | 174.5 | --- | --- | -15.17 | 0.243 | 134.9 | 117.3 | -6.0 | 0.430 |
| 4-3720 | 4-3980 | 1.155 | 283.9 | -31.5 | -18.83 | 1.160 | 27.5 | 0.903 | 1.603 | 141.8 | 175.8 | --- | --- | -13.71 | 0.220 | 123.8 | 115.6 | -6.2 | 0.403 |
| 4-3720 | 4-4000 | 1.125 | 285.2 | -31.4 | -17.40 | 1.158 | 29.2 | 0.891 | 1.589 | 139.5 | 177.1 | --- | --- | -12.55 | 0.208 | 112.4 | 114.1 | -6.3 | 0.382 |
| 4-3720 | 4-4020 | 1.097 | 286.5 | -31.3 | -16.18 | 1.157 | 30.8 | 0.879 | 1.585 | 137.1 | 178.4 | --- | --- | -11.61 | 0.207 | 101.6 | 112.8 | -6.4 | 0.366 |
| 4-3720 | 4-4040 | 1.071 | 287.8 | -31.2 | -15.12 | 1.158 | 32.3 | 0.867 | 1.589 | 134.8 | 179.7 | --- | --- | -10.83 | 0.212 | 92.1 | 111.7 | -6.5 | 0.354 |
| 4-3720 | 4-4060 | 1.046 | 289.1 | -31.1 | -14.19 | 1.159 | 33.8 | 0.855 | 1.597 | 132.4 | 181.0 | --- | 2.963 | -10.19 | 0.223 | 84.3 | 111.0 | -6.5 | 0.345 |
| 4-3720 | 4-4080 | 1.023 | 290.4 | -30.9 | -13.35 | 1.161 | 35.3 | 0.844 | 1.609 | 130.1 | 182.3 | --- | 2.966 | -9.66 | 0.236 | 77.9 | 110.5 | -6.6 | 0.338 |
| 4-3720 | 4-4100 | 1.000 | 291.7 | -30.8 | -12.59 | 1.164 | 36.7 | 0.832 | 1.624 | 127.7 | 183.6 | --- | 2.975 | -9.21 | 0.251 | 72.9 | 110.4 | -6.6 | 0.333 |
| 4-3720 | 4-4120 | 0.978 | 293.0 | -30.6 | -11.89 | 1.166 | 38.1 | 0.821 | 1.641 | 125.2 | 184.9 | --- | 2.988 | -8.84 | 0.267 | 68.8 | 110.5 | -6.7 | 0.329 |
| 4-3720 | 4-4140 | 0.956 | 294.3 | -30.4 | -11.24 | 1.169 | 39.5 | 0.810 | 1.659 | 122.8 | 186.2 | --- | 3.004 | -8.53 | 0.283 | 65.6 | 110.9 | -6.7 | 0.326 |
| 4-3720 | 4-4160 | 0.935 | 295.6 | -30.2 | -10.62 | 1.172 | 40.8 | 0.800 | 1.679 | 120.4 | 187.6 | --- | 3.021 | -8.27 | 0.299 | 63.0 | 111.6 | -6.8 | 0.325 |
| 4-3720 | 4-4180 | 0.914 | 297.0 | -29.9 | -10.04 | 1.175 | 42.1 | 0.789 | 1.699 | 117.9 | 188.9 | --- | 3.040 | -8.06 | 0.315 | 60.9 | 112.5 | -6.8 | 0.324 |
| 4-3720 | 4-4200 | 0.893 | 298.3 | -29.6 | -9.47 | 1.179 | 43.4 | 0.779 | 1.720 | 115.4 | 190.3 | --- | 3.061 | -7.90 | 0.330 | 59.3 | 113.7 | -6.9 | 0.323 |
| 4-3720 | 4-4220 | 0.872 | 299.6 | -29.3 | -8.93 | 1.182 | 44.7 | 0.769 | 1.742 | 112.9 | 191.6 | --- | 3.082 | -7.77 | 0.345 | 57.9 | 115.1 | -7.0 | 0.323 |
| 4-3720 | 4-4240 | 0.852 | 300.9 | -29.0 | -8.39 | 1.185 | 46.0 | 0.759 | 1.764 | 110.3 | 193.0 | --- | 3.104 | -7.69 | 0.360 | 56.8 | 116.6 | -7.1 | 0.324 |
| 4-3720 | 4-4260 | 0.831 | 302.3 | -28.6 | -7.86 | 1.188 | 47.2 | 0.750 | 1.787 | 107.8 | 194.4 | --- | 3.126 | -7.64 | 0.374 | 55.8 | 118.4 | -7.3 | 0.325 |
| 4-3720 | 4-4280 | 0.811 | 303.6 | -28.1 | -7.32 | 1.191 | 48.5 | 0.740 | 1.810 | 105.2 | 195.7 | --- | 3.149 | -7.62 | 0.388 | 55.1 | 120.3 | -7.4 | 0.326 |
| 4-3720 | 4-4300 | 0.790 | 305.0 | -27.6 | -6.78 | 1.194 | 49.7 | 0.731 | 1.832 | 102.5 | 197.1 | --- | 3.171 | -7.65 | 0.401 | 54.5 | 122.4 | -7.6 | 0.327 |
| 4-3720 | 4-4320 | 0.770 | 306.3 | -27.0 | -6.23 | 1.196 | 51.0 | 0.721 | 1.855 | 99.9 | 198.5 | --- | 3.194 | -7.71 | 0.414 | 54.0 | 124.7 | -7.9 | 0.329 |
| 4-3720 | 4-4340 | 0.749 | 307.7 | -26.3 | -5.66 | 1.199 | 52.2 | 0.712 | 1.878 | 97.2 | 199.9 | --- | 3.217 | -7.82 | 0.426 | 53.7 | 127.1 | -8.1 | 0.330 |
| 4-3720 | 4-4360 | 0.728 | 309.0 | -25.6 | -5.06 | 1.202 | 53.4 | 0.704 | 1.901 | 94.4 | 201.4 | --- | 3.239 | -7.97 | 0.438 | 53.4 | 129.6 | -8.4 | 0.332 |
| 4-3720 | 4-4380 | 0.708 | 310.4 | -24.7 | -4.44 | 1.204 | 54.7 | 0.695 | 1.924 | 91.7 | 202.8 | --- | 3.262 | -8.17 | 0.450 | 53.2 | 132.3 | -8.8 | 0.334 |
| 4-3720 | 4-4400 | 0.687 | 311.8 | -23.6 | -3.76 | 1.207 | 55.9 | 0.687 | 1.947 | 88.8 | 204.2 | --- | 3.284 | -8.44 | 0.461 | 53.0 | 135.1 | -9.2 | 0.336 |
| 4-3720 | 4-4420 | 0.666 | 313.1 | -22.4 | -3.03 | 1.209 | 57.1 | 0.678 | 1.970 | 86.0 | 205.6 | --- | 3.306 | -8.78 | 0.472 | 52.9 | 138.0 | -9.8 | 0.339 |
| 4-3720 | 4-4440 | 0.645 | 314.4 | -20.9 | -2.22 | 1.212 | 58.4 | 0.670 | 1.993 | 83.1 | 207.1 | --- | 3.329 | -9.20 | 0.482 | 52.9 | 141.1 | -10.4 | 0.342 |
| 4-3720 | 4-4460 | 0.624 | 315.6 | -19.2 | -1.32 | 1.214 | 59.6 | 0.663 | 2.015 | 80.1 | 208.5 | --- | 3.351 | -9.74 | 0.493 | 52.9 | 144.3 | -11.1 | 0.345 |
| 4-3720 | 4-4480 | 0.604 | 316.8 | -17.1 | -0.29 | 1.216 | 60.9 | 0.655 | 2.038 | 77.1 | 209.9 | --- | 3.373 | -10.41 | 0.502 | 52.9 | 147.6 | -12.0 | 0.349 |
| 4-3720 | 4-4500 | 0.584 | 317.8 | -14.5 | 0.92 | 1.219 | 62.1 | 0.648 | 2.060 | 74.1 | 211.3 | --- | 3.395 | -11.26 | 0.512 | 53.0 | 151.1 | -13.1 | 0.353 |
| 4-3720 | 4-4520 | 0.566 | 318.6 | -11.2 | 2.37 | 1.221 | 63.4 | 0.641 | 2.082 | 71.0 | 212.7 | --- | 3.417 | -12.36 | 0.520 | 53.1 | 154.7 | -14.4 | 0.359 |
| 4-3720 | 4-4540 | 0.549 | 319.0 | -7.1 | 4.15 | 1.223 | 64.6 | 0.634 | 2.104 | 67.9 | 214.1 | --- | 3.439 | -13.81 | 0.529 | 53.2 | 158.5 | -16.0 | 0.366 |
| 4-3720 | 4-4560 | 0.537 | 318.8 | -1.8 | 6.44 | 1.225 | 65.9 | 0.628 | 2.126 | 64.7 | 215.5 | --- | 3.461 | -15.76 | 0.537 | 53.3 | 162.6 | -18.2 | 0.375 |
| 4-3720 | 4-4580 | 0.534 | 317.7 | 5.2 | 9.51 | 1.227 | 67.1 | 0.622 | 2.148 | 61.5 | 216.8 | --- | 3.484 | -18.50 | 0.545 | 53.4 | 167.1 | -21.0 | 0.388 |
| 4-3720 | 4-4600 | 0.549 | 314.6 | 14.2 | 13.89 | 1.228 | 68.4 | 0.617 | 2.169 | 58.3 | 218.1 | --- | 3.507 | -22.55 | 0.552 | 53.5 | 172.2 | -24.6 | 0.409 |
| 4-3720 | 4-4620 | 0.604 | 308.0 | 25.1 | 20.64 | 1.230 | 69.6 | 0.612 | 2.190 | 55.2 | 219.3 | --- | 3.531 | -28.98 | 0.559 | 53.6 | 178.7 | -29.3 | 0.445 |
| 4-3720 | 4-4640 | 0.745 | 294.2 | 35.7 | 32.13 | 1.232 | 70.6 | 0.609 | 2.211 | 52.4 | 220.5 | --- | 3.557 | -40.14 | 0.565 | 53.7 | 188.0 | -34.6 | 0.516 |
| 4-3730 | 4-3910 | 1.430 | 284.6 | -30.8 | -44.73 | 1.202 | 13.6 | 0.978 | 1.890 | 160.0 | 173.9 | --- | --- | -39.53 | 0.378 | 165.3 | 120.9 | -5.8 | 0.606 |
| 4-3730 | 4-3930 | 1.372 | 286.0 | -30.6 | -36.60 | 1.181 | 15.7 | 0.969 | 1.727 | 157.7 | 174.6 | --- | --- | -31.68 | 0.305 | 159.1 | 119.1 | -6.0 | 0.547 |
| 4-3730 | 4-3950 | 1.324 | 287.4 | -30.5 | -30.94 | 1.167 | 17.8 | 0.959 | 1.639 | 155.3 | 175.3 | --- | --- | -26.31 | 0.248 | 150.8 | 117.4 | -6.2 | 0.501 |
| 4-3730 | 4-3970 | 1.283 | 288.8 | -30.3 | -26.83 | 1.159 | 19.8 | 0.949 | 1.590 | 152.8 | 176.2 | --- | --- | -22.49 | 0.208 | 139.9 | 115.8 | -6.3 | 0.466 |
| 4-3730 | 4-3990 | 1.246 | 290.2 | -30.2 | -23.70 | 1.155 | 21.8 | 0.938 | 1.565 | 150.2 | 177.1 | --- | --- | -19.66 | 0.182 | 126.8 | 114.3 | -6.4 | 0.439 |
| 4-3730 | 4-4010 | 1.213 | 291.6 | -30.0 | -21.24 | 1.153 | 23.6 | 0.927 | 1.553 | 147.7 | 178.1 | --- | --- | -17.50 | 0.171 | 112.6 | 113.0 | -6.5 | 0.417 |
| 4-3730 | 4-4030 | 1.183 | 293.0 | -29.8 | -19.25 | 1.153 | 25.4 | 0.915 | 1.551 | 145.2 | 179.1 | --- | --- | -15.81 | 0.171 | 99.1 | 112.0 | -6.6 | 0.401 |
| 4-3730 | 4-4050 | 1.154 | 294.4 | -29.6 | -17.59 | 1.153 | 27.1 | 0.904 | 1.556 | 142.7 | 180.2 | --- | 2.963 | -14.46 | 0.180 | 87.8 | 111.3 | -6.6 | 0.388 |
| 4-3730 | 4-4070 | 1.128 | 295.8 | -29.4 | -16.17 | 1.155 | 28.8 | 0.893 | 1.566 | 140.2 | 181.4 | --- | 2.964 | -13.36 | 0.194 | 78.9 | 110.8 | -6.7 | 0.378 |
| 4-3730 | 4-4090 | 1.102 | 297.1 | -29.1 | -14.94 | 1.157 | 30.4 | 0.881 | 1.579 | 137.7 | 182.5 | --- | 2.971 | -12.46 | 0.212 | 72.2 | 110.6 | -6.7 | 0.371 |
| 4-3730 | 4-4110 | 1.077 | 298.5 | -28.9 | -13.86 | 1.160 | 32.0 | 0.870 | 1.595 | 135.2 | 183.7 | --- | 2.983 | -11.72 | 0.230 | 67.0 | 110.7 | -6.8 | 0.365 |
| 4-3730 | 4-4130 | 1.053 | 299.8 | -28.6 | -12.88 | 1.163 | 33.5 | 0.859 | 1.613 | 132.7 | 184.9 | --- | 2.999 | -11.09 | 0.249 | 63.2 | 111.1 | -6.8 | 0.361 |
| 4-3730 | 4-4150 | 1.030 | 301.1 | -28.3 | -12.00 | 1.166 | 35.0 | 0.848 | 1.633 | 130.2 | 186.1 | --- | 3.017 | -10.57 | 0.267 | 60.2 | 111.8 | -6.8 | 0.358 |
| 4-3730 | 4-4170 | 1.007 | 302.4 | -28.0 | -11.18 | 1.170 | 36.4 | 0.837 | 1.653 | 127.6 | 187.3 | --- | 3.036 | -10.14 | 0.285 | 57.9 | 112.6 | -6.9 | 0.355 |
| 4-3730 | 4-4190 | 0.985 | 303.8 | -27.6 | -10.42 | 1.173 | 37.9 | 0.826 | 1.675 | 125.1 | 188.6 | --- | 3.058 | -9.78 | 0.303 | 56.1 | 113.7 | -6.9 | 0.354 |
| 4-3730 | 4-4210 | 0.962 | 305.1 | -27.2 | -9.71 | 1.176 | 39.3 | 0.815 | 1.697 | 122.5 | 189.9 | --- | 3.080 | -9.48 | 0.320 | 54.7 | 115.1 | -7.0 | 0.353 |
| 4-3730 | 4-4230 | 0.940 | 306.4 | -26.8 | -9.03 | 1.180 | 40.6 | 0.804 | 1.720 | 119.9 | 191.2 | --- | 3.103 | -9.24 | 0.336 | 53.5 | 116.6 | -7.1 | 0.352 |
| 4-3730 | 4-4250 | 0.918 | 307.6 | -26.4 | -8.37 | 1.183 | 42.0 | 0.794 | 1.743 | 117.3 | 192.5 | --- | 3.126 | -9.05 | 0.352 | 52.7 | 118.3 | -7.2 | 0.352 |
| 4-3730 | 4-4270 | 0.896 | 308.9 | -25.9 | -7.73 | 1.186 | 43.4 | 0.784 | 1.766 | 114.7 | 193.8 | --- | 3.150 | -8.91 | 0.367 | 52.0 | 120.2 | -7.3 | 0.352 |
| 4-3730 | 4-4290 | 0.875 | 310.2 | -25.3 | -7.10 | 1.189 | 44.7 | 0.773 | 1.790 | 112.1 | 195.1 | --- | 3.174 | -8.81 | 0.382 | 51.5 | 122.2 | -7.5 | 0.352 |
| 4-3730 | 4-4310 | 0.853 | 311.5 | -24.7 | -6.47 | 1.192 | 46.0 | 0.763 | 1.814 | 109.4 | 196.5 | --- | 3.198 | -8.76 | 0.396 | 51.1 | 124.4 | -7.6 | 0.353 |
| 4-3730 | 4-4330 | 0.831 | 312.8 | -24.1 | -5.85 | 1.195 | 47.4 | 0.753 | 1.837 | 106.7 | 197.9 | --- | 3.222 | -8.75 | 0.410 | 50.8 | 126.7 | -7.8 | 0.354 |
| 4-3730 | 4-4350 | 0.810 | 314.1 | -23.3 | -5.21 | 1.198 | 48.7 | 0.744 | 1.861 | 103.9 | 199.2 | --- | 3.245 | -8.78 | 0.423 | 50.6 | 129.2 | -8.1 | 0.355 |
| 4-3730 | 4-4370 | 0.788 | 315.3 | -22.5 | -4.56 | 1.201 | 50.0 | 0.734 | 1.885 | 101.2 | 200.6 | --- | 3.269 | -8.87 | 0.435 | 50.4 | 131.8 | -8.4 | 0.356 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3730 | 4-4390 | 0.766 | 316.6 | -21.6 | -3.88 | 1.204 | 51.3 | 0.724 | 1.909 | 98.3 | 202.0 | --- | 3.292 | -9.00 | 0.448 | 50.4 | 134.5 | -8.7 | 0.358 |
| 4-3730 | 4-4410 | 0.744 | 317.8 | -20.5 | -3.17 | 1.206 | 52.6 | 0.715 | 1.933 | 95.5 | 203.4 | --- | 3.315 | -9.19 | 0.459 | 50.4 | 137.4 | -9.1 | 0.359 |
| 4-3730 | 4-4430 | 0.723 | 319.0 | -19.3 | -2.42 | 1.209 | 53.9 | 0.706 | 1.957 | 92.6 | 204.9 | --- | 3.338 | -9.45 | 0.471 | 50.4 | 140.4 | -9.5 | 0.361 |
| 4-3730 | 4-4450 | 0.701 | 320.2 | -17.9 | -1.61 | 1.212 | 55.2 | 0.697 | 1.980 | 89.7 | 206.3 | --- | 3.361 | -9.79 | 0.481 | 50.5 | 143.5 | -10.0 | 0.363 |
| 4-3730 | 4-4470 | 0.680 | 321.3 | -16.3 | -0.73 | 1.214 | 56.5 | 0.689 | 2.004 | 86.7 | 207.7 | --- | 3.384 | -10.21 | 0.492 | 50.6 | 146.7 | -10.6 | 0.366 |
| 4-3730 | 4-4490 | 0.658 | 322.4 | -14.4 | 0.25 | 1.216 | 57.8 | 0.680 | 2.027 | 83.7 | 209.1 | --- | 3.406 | -10.75 | 0.502 | 50.8 | 150.0 | -11.3 | 0.369 |
| 4-3730 | 4-4510 | 0.638 | 323.3 | -12.2 | 1.36 | 1.219 | 59.1 | 0.672 | 2.050 | 80.6 | 210.5 | --- | 3.428 | -11.43 | 0.511 | 51.0 | 153.5 | -12.2 | 0.372 |
| 4-3730 | 4-4530 | 0.618 | 324.1 | -9.5 | 2.64 | 1.221 | 60.4 | 0.664 | 2.074 | 77.5 | 211.9 | --- | 3.450 | -12.29 | 0.520 | 51.2 | 157.1 | -13.3 | 0.376 |
| 4-3730 | 4-4550 | 0.600 | 324.7 | -6.2 | 4.15 | 1.223 | 61.8 | 0.656 | 2.096 | 74.4 | 213.3 | --- | 3.472 | -13.39 | 0.529 | 51.4 | 160.8 | -14.5 | 0.381 |
| 4-3730 | 4-4570 | 0.584 | 324.8 | -2.1 | 5.98 | 1.225 | 63.1 | 0.649 | 2.119 | 71.2 | 214.7 | --- | 3.495 | -14.82 | 0.537 | 51.6 | 164.7 | -16.1 | 0.388 |
| 4-3730 | 4-4590 | 0.573 | 324.4 | 2.9 | 8.28 | 1.227 | 64.4 | 0.642 | 2.142 | 67.9 | 216.1 | --- | 3.517 | -16.72 | 0.545 | 51.8 | 168.9 | -18.1 | 0.396 |
| 4-3730 | 4-4610 | 0.571 | 323.0 | 9.2 | 11.28 | 1.229 | 65.7 | 0.636 | 2.164 | 64.7 | 217.4 | --- | 3.540 | -19.33 | 0.553 | 52.0 | 173.5 | -20.7 | 0.409 |
| 4-3730 | 4-4630 | 0.586 | 319.9 | 17.0 | 15.41 | 1.231 | 67.0 | 0.630 | 2.186 | 61.5 | 218.6 | --- | 3.563 | -23.07 | 0.559 | 52.3 | 178.6 | -23.9 | 0.428 |
| 4-3730 | 4-4650 | 0.632 | 313.8 | 26.1 | 21.44 | 1.233 | 68.2 | 0.625 | 2.208 | 58.3 | 219.9 | --- | 3.587 | -28.73 | 0.566 | 52.4 | 184.8 | -28.0 | 0.459 |
| 4-3740 | 4-3920 | 1.535 | 290.2 | -29.7 | -77.63 | 1.200 | 9.9 | 0.988 | 1.867 | 165.6 | 175.6 | --- | --- | -73.40 | 0.369 | 169.1 | 119.7 | -5.9 | 0.650 |
| 4-3740 | 4-3940 | 1.473 | 291.9 | -29.5 | -59.85 | 1.178 | 10.9 | 0.985 | 1.700 | 164.7 | 176.4 | --- | --- | -55.93 | 0.289 | 164.9 | 118.1 | -6.1 | 0.589 |
| 4-3740 | 4-3960 | 1.422 | 293.5 | -29.2 | -47.16 | 1.164 | 12.5 | 0.980 | 1.611 | 162.8 | 176.9 | --- | --- | -43.55 | 0.226 | 157.8 | 116.5 | -6.2 | 0.542 |
| 4-3740 | 4-3980 | 1.377 | 295.0 | -29.0 | -38.39 | 1.156 | 14.3 | 0.973 | 1.562 | 160.5 | 177.4 | --- | --- | -35.10 | 0.179 | 147.1 | 115.1 | -6.4 | 0.506 |
| 4-3740 | 4-4000 | 1.337 | 296.6 | -28.7 | -32.18 | 1.151 | 16.3 | 0.965 | 1.537 | 158.0 | 178.1 | --- | --- | -29.20 | 0.148 | 132.1 | 113.8 | -6.4 | 0.477 |
| 4-3740 | 4-4020 | 1.301 | 298.1 | -28.4 | -27.62 | 1.149 | 18.2 | 0.956 | 1.526 | 155.5 | 178.8 | --- | --- | -24.96 | 0.134 | 114.1 | 112.8 | -6.5 | 0.455 |
| 4-3740 | 4-4040 | 1.269 | 299.6 | -28.1 | -24.14 | 1.149 | 20.1 | 0.946 | 1.524 | 152.9 | 179.6 | --- | --- | -21.81 | 0.136 | 96.6 | 112.0 | -6.6 | 0.438 |
| 4-3740 | 4-4060 | 1.238 | 301.0 | -27.8 | -21.39 | 1.150 | 22.0 | 0.936 | 1.530 | 150.3 | 180.5 | --- | 2.962 | -19.39 | 0.148 | 82.5 | 111.5 | -6.6 | 0.425 |
| 4-3740 | 4-4080 | 1.209 | 302.4 | -27.5 | -19.16 | 1.152 | 23.7 | 0.926 | 1.540 | 147.7 | 181.5 | --- | 2.966 | -17.50 | 0.167 | 72.4 | 111.3 | -6.6 | 0.414 |
| 4-3740 | 4-4100 | 1.182 | 303.8 | -27.2 | -17.30 | 1.155 | 25.5 | 0.915 | 1.554 | 145.1 | 182.5 | --- | 2.976 | -15.99 | 0.188 | 65.3 | 111.4 | -6.7 | 0.406 |
| 4-3740 | 4-4120 | 1.155 | 305.2 | -26.8 | -15.72 | 1.157 | 27.2 | 0.904 | 1.570 | 142.5 | 183.5 | --- | 2.991 | -14.76 | 0.209 | 60.3 | 111.7 | -6.7 | 0.399 |
| 4-3740 | 4-4140 | 1.130 | 306.6 | -26.5 | -14.34 | 1.161 | 28.8 | 0.894 | 1.589 | 139.9 | 184.6 | --- | 3.009 | -13.75 | 0.231 | 56.8 | 112.2 | -6.7 | 0.394 |
| 4-3740 | 4-4160 | 1.105 | 307.9 | -26.1 | -13.13 | 1.164 | 30.4 | 0.883 | 1.609 | 137.3 | 185.7 | --- | 3.029 | -12.92 | 0.252 | 54.1 | 113.0 | -6.7 | 0.390 |
| 4-3740 | 4-4180 | 1.080 | 309.2 | -25.7 | -12.04 | 1.167 | 32.0 | 0.872 | 1.630 | 134.7 | 186.9 | --- | 3.051 | -12.22 | 0.272 | 52.2 | 114.1 | -6.8 | 0.387 |
| 4-3740 | 4-4200 | 1.056 | 310.5 | -25.2 | -11.05 | 1.171 | 33.5 | 0.861 | 1.652 | 132.1 | 188.1 | --- | 3.074 | -11.64 | 0.292 | 50.8 | 115.3 | -6.8 | 0.385 |
| 4-3740 | 4-4220 | 1.033 | 311.8 | -24.8 | -10.14 | 1.174 | 35.0 | 0.850 | 1.675 | 129.5 | 189.3 | --- | 3.098 | -11.15 | 0.310 | 49.7 | 116.8 | -6.9 | 0.383 |
| 4-3740 | 4-4240 | 1.009 | 313.1 | -24.3 | -9.29 | 1.178 | 36.5 | 0.839 | 1.698 | 126.8 | 190.5 | --- | 3.123 | -10.75 | 0.328 | 48.9 | 118.4 | -6.9 | 0.382 |
| 4-3740 | 4-4260 | 0.986 | 314.3 | -23.7 | -8.49 | 1.181 | 38.0 | 0.828 | 1.722 | 124.2 | 191.8 | --- | 3.148 | -10.42 | 0.345 | 48.3 | 120.2 | -7.0 | 0.381 |
| 4-3740 | 4-4280 | 0.963 | 315.6 | -23.2 | -7.72 | 1.185 | 39.4 | 0.817 | 1.746 | 121.5 | 193.0 | --- | 3.173 | -10.15 | 0.361 | 47.9 | 122.2 | -7.1 | 0.380 |
| 4-3740 | 4-4300 | 0.940 | 316.8 | -22.6 | -6.98 | 1.188 | 40.9 | 0.807 | 1.771 | 118.8 | 194.3 | --- | 3.199 | -9.94 | 0.377 | 47.6 | 124.3 | -7.3 | 0.380 |
| 4-3740 | 4-4320 | 0.917 | 318.0 | -21.9 | -6.26 | 1.191 | 42.3 | 0.796 | 1.795 | 116.1 | 195.7 | --- | 3.224 | -9.79 | 0.391 | 47.4 | 126.5 | -7.4 | 0.380 |
| 4-3740 | 4-4340 | 0.895 | 319.2 | -21.2 | -5.55 | 1.195 | 43.7 | 0.785 | 1.820 | 113.3 | 197.0 | --- | 3.249 | -9.68 | 0.406 | 47.3 | 128.9 | -7.6 | 0.380 |
| 4-3740 | 4-4360 | 0.872 | 320.5 | -20.4 | -4.85 | 1.198 | 45.1 | 0.775 | 1.844 | 110.5 | 198.4 | --- | 3.274 | -9.63 | 0.419 | 47.3 | 131.5 | -7.8 | 0.381 |
| 4-3740 | 4-4380 | 0.849 | 321.6 | -19.5 | -4.14 | 1.201 | 46.5 | 0.765 | 1.869 | 107.7 | 199.7 | --- | 3.298 | -9.63 | 0.433 | 47.3 | 134.1 | -8.0 | 0.381 |
| 4-3740 | 4-4400 | 0.826 | 322.8 | -18.6 | -3.42 | 1.203 | 47.9 | 0.755 | 1.894 | 104.9 | 201.1 | --- | 3.323 | -9.68 | 0.445 | 47.4 | 136.9 | -8.3 | 0.382 |
| 4-3740 | 4-4420 | 0.804 | 324.0 | -17.5 | -2.68 | 1.206 | 49.2 | 0.744 | 1.918 | 102.0 | 202.5 | --- | 3.346 | -9.79 | 0.457 | 47.6 | 139.8 | -8.6 | 0.383 |
| 4-3740 | 4-4440 | 0.781 | 325.1 | -16.3 | -1.91 | 1.209 | 50.6 | 0.735 | 1.943 | 99.1 | 203.9 | --- | 3.370 | -9.96 | 0.469 | 47.8 | 142.8 | -9.0 | 0.384 |
| 4-3740 | 4-4460 | 0.759 | 326.2 | -15.0 | -1.09 | 1.212 | 52.0 | 0.725 | 1.967 | 96.2 | 205.3 | --- | 3.394 | -10.20 | 0.480 | 48.0 | 145.9 | -9.4 | 0.386 |
| 4-3740 | 4-4480 | 0.736 | 327.3 | -13.5 | -0.23 | 1.214 | 53.4 | 0.715 | 1.992 | 93.2 | 206.8 | --- | 3.417 | -10.51 | 0.491 | 48.3 | 149.1 | -9.9 | 0.387 |
| 4-3740 | 4-4500 | 0.714 | 328.3 | -11.8 | 0.71 | 1.217 | 54.7 | 0.706 | 2.016 | 90.1 | 208.2 | --- | 3.440 | -10.92 | 0.501 | 48.5 | 152.5 | -10.5 | 0.389 |
| 4-3740 | 4-4520 | 0.693 | 329.2 | -9.8 | 1.74 | 1.219 | 56.1 | 0.697 | 2.040 | 87.0 | 209.6 | --- | 3.462 | -11.44 | 0.511 | 48.8 | 155.9 | -11.2 | 0.392 |
| 4-3740 | 4-4540 | 0.672 | 330.0 | -7.5 | 2.89 | 1.221 | 57.5 | 0.688 | 2.064 | 83.9 | 211.0 | --- | 3.485 | -12.10 | 0.520 | 49.1 | 159.5 | -12.1 | 0.395 |
| 4-3740 | 4-4560 | 0.652 | 330.6 | -4.8 | 4.20 | 1.224 | 58.8 | 0.680 | 2.088 | 80.7 | 212.4 | --- | 3.507 | -12.93 | 0.529 | 49.5 | 163.2 | -13.1 | 0.398 |
| 4-3740 | 4-4580 | 0.634 | 330.9 | -1.6 | 5.73 | 1.226 | 60.2 | 0.672 | 2.111 | 77.5 | 213.8 | --- | 3.529 | -14.00 | 0.537 | 49.8 | 167.1 | -14.3 | 0.403 |
| 4-3740 | 4-4600 | 0.618 | 330.9 | 2.3 | 7.56 | 1.228 | 61.6 | 0.664 | 2.135 | 74.3 | 215.1 | --- | 3.552 | -15.37 | 0.545 | 50.1 | 171.1 | -15.8 | 0.408 |
| 4-3740 | 4-4620 | 0.608 | 330.4 | 7.0 | 9.81 | 1.230 | 62.9 | 0.656 | 2.158 | 71.0 | 216.5 | --- | 3.574 | -17.17 | 0.553 | 50.4 | 175.3 | -17.6 | 0.416 |
| 4-3740 | 4-4640 | 0.606 | 328.9 | 12.7 | 12.69 | 1.232 | 64.3 | 0.649 | 2.181 | 67.7 | 217.8 | --- | 3.597 | -19.61 | 0.560 | 50.7 | 179.9 | -19.9 | 0.427 |
| 4-3740 | 4-4660 | 0.618 | 325.8 | 19.5 | 16.52 | 1.234 | 65.6 | 0.643 | 2.204 | 64.4 | 219.0 | --- | 3.620 | -23.01 | 0.566 | 51.0 | 185.0 | -22.8 | 0.443 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3940 | 4-4200 | 0.799 | 336.3 | 13.1 | 15.56 | 1.307 | 123.9 | 0.802 | 3.245 | 282.1 | 498.4 | 0.643 | --- | -18.04 | 0.618 | 143.0 | 205.9 | -11.4 | 0.583 |
| 4-3940 | 4-4220 | 0.741 | 335.9 | 11.8 | 13.68 | 1.279 | 122.0 | 0.749 | 2.644 | 282.9 | 503.0 | 0.662 | --- | -16.56 | 0.561 | 138.3 | 206.9 | -11.9 | 0.516 |
| 4-3940 | 4-4240 | 0.694 | 335.7 | 10.4 | 12.05 | 1.259 | 120.5 | 0.708 | 2.320 | 283.6 | 507.5 | 0.678 | --- | -15.36 | 0.515 | 133.3 | 207.4 | -12.5 | 0.458 |
| 4-3940 | 4-4260 | 0.656 | 335.6 | 8.9 | 10.63 | 1.243 | 119.3 | 0.674 | 2.122 | 284.3 | 512.0 | 0.691 | --- | -14.36 | 0.478 | 128.1 | 207.5 | -13.2 | 0.409 |
| 4-3940 | 4-4280 | 0.626 | 335.6 | 7.4 | 9.36 | 1.230 | 118.3 | 0.648 | 1.993 | 284.7 | 516.4 | 0.702 | --- | -13.54 | 0.449 | 122.6 | 207.0 | -14.0 | 0.367 |
| 4-3940 | 4-4300 | 0.603 | 335.8 | 5.9 | 8.21 | 1.221 | 117.5 | 0.628 | 1.905 | 285.1 | 520.6 | 0.709 | --- | -12.86 | 0.426 | 117.1 | 206.0 | -14.8 | 0.331 |
| 4-3940 | 4-4320 | 0.585 | 336.1 | 4.3 | 7.15 | 1.214 | 117.0 | 0.613 | 1.843 | 285.2 | 524.8 | 0.714 | --- | -12.29 | 0.410 | 111.5 | 204.3 | -15.6 | 0.302 |
| 4-3940 | 4-4340 | 0.573 | 336.6 | 2.8 | 6.16 | 1.208 | 116.7 | 0.602 | 1.800 | 285.1 | 528.7 | 0.717 | --- | -11.82 | 0.398 | 106.0 | 201.9 | -16.4 | 0.278 |
| 4-3940 | 4-4360 | 0.565 | 337.2 | 1.2 | 5.24 | 1.204 | 116.5 | 0.595 | 1.768 | 284.8 | 532.5 | 0.717 | --- | -11.44 | 0.391 | 100.7 | 199.0 | -17.0 | 0.260 |
| 4-3940 | 4-4380 | 0.562 | 338.0 | -0.3 | 4.35 | 1.201 | 116.6 | 0.591 | 1.747 | 284.3 | 536.1 | 0.715 | --- | -11.13 | 0.387 | 95.5 | 195.6 | -17.5 | 0.248 |
| 4-3940 | 4-4400 | 0.562 | 338.9 | -1.7 | 3.50 | 1.199 | 116.8 | 0.590 | 1.732 | 283.5 | 539.6 | 0.710 | --- | -10.90 | 0.386 | 90.6 | 192.0 | -17.7 | 0.240 |
| 4-3940 | 4-4420 | 0.567 | 339.9 | -3.0 | 2.67 | 1.198 | 117.2 | 0.592 | 1.723 | 282.4 | 542.8 | 0.703 | 2.743 | -10.73 | 0.387 | 86.0 | 188.4 | -17.6 | 0.238 |
| 4-3940 | 4-4440 | 0.575 | 341.1 | -4.3 | 1.85 | 1.197 | 117.7 | 0.597 | 1.718 | 281.1 | 545.7 | 0.693 | 2.743 | -10.62 | 0.390 | 81.7 | 185.3 | -17.2 | 0.241 |
| 4-3940 | 4-4460 | 0.587 | 342.5 | -5.4 | 1.03 | 1.197 | 118.4 | 0.604 | 1.716 | 279.5 | 548.5 | 0.680 | 2.752 | -10.57 | 0.395 | 77.5 | 182.7 | -16.6 | 0.247 |
| 4-3940 | 4-4480 | 0.603 | 343.9 | -6.5 | 0.21 | 1.197 | 119.3 | 0.613 | 1.717 | 277.6 | 551.0 | 0.665 | 2.770 | -10.59 | 0.401 | 73.7 | 180.8 | -15.9 | 0.258 |
| 4-3940 | 4-4500 | 0.622 | 345.5 | -7.3 | -0.63 | 1.198 | 120.4 | 0.624 | 1.721 | 275.4 | 553.3 | 0.647 | 2.795 | -10.68 | 0.407 | 70.0 | 179.8 | -15.1 | 0.271 |
| 4-3940 | 4-4520 | 0.645 | 347.2 | -8.1 | -1.50 | 1.198 | 121.7 | 0.638 | 1.726 | 272.9 | 555.3 | 0.625 | 2.828 | -10.83 | 0.415 | 66.4 | 179.6 | -14.3 | 0.288 |
| 4-3940 | 4-4540 | 0.672 | 349.0 | -8.6 | -2.41 | 1.199 | 123.2 | 0.654 | 1.734 | 270.0 | 557.0 | 0.600 | 2.867 | -11.06 | 0.422 | 63.0 | 180.1 | -13.6 | 0.307 |
| 4-3940 | 4-4560 | 0.704 | 350.9 | -9.1 | -3.38 | 1.201 | 124.8 | 0.672 | 1.742 | 266.9 | 558.5 | 0.572 | 2.913 | -11.38 | 0.430 | 59.6 | 181.3 | -12.9 | 0.329 |
| 4-3940 | 4-4580 | 0.739 | 352.9 | -9.3 | -4.41 | 1.202 | 126.7 | 0.692 | 1.752 | 263.4 | 559.6 | 0.540 | 2.964 | -11.80 | 0.438 | 56.3 | 183.2 | -12.2 | 0.353 |
| 4-3940 | 4-4600 | 0.779 | 355.0 | -9.4 | -5.55 | 1.203 | 128.9 | 0.714 | 1.763 | 259.6 | 560.5 | 0.504 | 3.022 | -12.34 | 0.446 | 53.0 | 185.6 | -11.6 | 0.380 |
| 4-3940 | 4-4620 | 0.824 | 357.2 | -9.4 | -6.81 | 1.205 | 131.3 | 0.738 | 1.776 | 255.4 | 561.0 | 0.465 | 3.087 | -13.03 | 0.454 | 49.6 | 188.5 | -11.0 | 0.408 |
| 4-3940 | 4-4640 | 0.874 | 359.6 | -9.1 | -8.24 | 1.207 | 133.9 | 0.764 | 1.789 | 250.9 | 561.1 | 0.422 | 3.156 | -13.91 | 0.461 | 46.2 | 191.9 | -10.5 | 0.439 |
| 4-3950 | 4-4210 | 0.789 | 341.3 | 21.9 | 18.96 | 1.308 | 121.4 | 0.795 | 3.349 | 287.6 | 496.2 | 0.687 | --- | -22.49 | 0.627 | 142.2 | 208.0 | -14.4 | 0.593 |
| 4-3950 | 4-4230 | 0.722 | 340.8 | 19.5 | 16.14 | 1.281 | 119.6 | 0.739 | 2.711 | 288.5 | 500.8 | 0.707 | --- | -20.06 | 0.571 | 137.6 | 209.3 | -14.6 | 0.523 |
| 4-3950 | 4-4250 | 0.668 | 340.5 | 17.2 | 13.83 | 1.260 | 118.0 | 0.695 | 2.370 | 289.4 | 505.5 | 0.723 | --- | -18.15 | 0.525 | 132.7 | 210.1 | -15.0 | 0.464 |
| 4-3950 | 4-4270 | 0.625 | 340.4 | 15.0 | 11.89 | 1.244 | 116.8 | 0.660 | 2.163 | 290.2 | 510.1 | 0.736 | --- | -16.62 | 0.489 | 127.5 | 210.5 | -15.5 | 0.413 |
| 4-3950 | 4-4290 | 0.591 | 340.5 | 12.8 | 10.22 | 1.232 | 115.7 | 0.632 | 2.028 | 290.9 | 514.6 | 0.747 | --- | -15.37 | 0.460 | 122.3 | 210.3 | -16.2 | 0.370 |
| 4-3950 | 4-4310 | 0.565 | 340.8 | 10.7 | 8.76 | 1.222 | 114.9 | 0.610 | 1.936 | 291.3 | 519.0 | 0.755 | --- | -14.35 | 0.438 | 116.9 | 209.5 | -16.9 | 0.334 |
| 4-3950 | 4-4330 | 0.545 | 341.2 | 8.6 | 7.46 | 1.215 | 114.4 | 0.593 | 1.871 | 291.6 | 523.3 | 0.761 | --- | -13.51 | 0.422 | 111.6 | 208.1 | -17.6 | 0.303 |
| 4-3950 | 4-4350 | 0.530 | 341.7 | 6.5 | 6.28 | 1.209 | 114.0 | 0.581 | 1.825 | 291.7 | 527.4 | 0.764 | --- | -12.81 | 0.410 | 106.4 | 206.1 | -18.3 | 0.278 |
| 4-3950 | 4-4370 | 0.520 | 342.4 | 4.5 | 5.20 | 1.205 | 113.8 | 0.573 | 1.793 | 291.5 | 531.3 | 0.765 | --- | -12.23 | 0.403 | 101.3 | 203.4 | -18.9 | 0.259 |
| 4-3950 | 4-4390 | 0.515 | 343.3 | 2.6 | 4.20 | 1.202 | 113.8 | 0.568 | 1.770 | 291.1 | 535.1 | 0.764 | --- | -11.76 | 0.399 | 96.4 | 200.2 | -19.3 | 0.245 |
| 4-3950 | 4-4410 | 0.514 | 344.3 | 0.8 | 3.25 | 1.200 | 113.9 | 0.566 | 1.754 | 290.4 | 538.6 | 0.761 | --- | -11.38 | 0.398 | 91.8 | 196.7 | -19.4 | 0.236 |
| 4-3950 | 4-4430 | 0.517 | 345.5 | -0.8 | 2.35 | 1.199 | 114.2 | 0.567 | 1.744 | 289.5 | 542.0 | 0.755 | 2.732 | -11.08 | 0.399 | 87.4 | 193.1 | -19.3 | 0.231 |
| 4-3950 | 4-4450 | 0.524 | 346.8 | -2.3 | 1.48 | 1.198 | 114.7 | 0.570 | 1.738 | 288.3 | 545.1 | 0.747 | 2.729 | -10.85 | 0.402 | 83.3 | 189.8 | -18.9 | 0.232 |
| 4-3950 | 4-4470 | 0.534 | 348.2 | -3.7 | 0.63 | 1.197 | 115.3 | 0.576 | 1.736 | 286.8 | 548.0 | 0.736 | 2.735 | -10.68 | 0.406 | 79.4 | 187.0 | -18.2 | 0.236 |
| 4-3950 | 4-4490 | 0.547 | 349.7 | -4.9 | -0.21 | 1.198 | 116.1 | 0.583 | 1.736 | 285.0 | 550.7 | 0.723 | 2.749 | -10.59 | 0.411 | 75.8 | 184.9 | -17.4 | 0.245 |
| 4-3950 | 4-4510 | 0.564 | 351.4 | -5.9 | -1.05 | 1.198 | 117.0 | 0.593 | 1.739 | 283.0 | 553.1 | 0.708 | 2.771 | -10.56 | 0.417 | 72.3 | 183.6 | -16.5 | 0.256 |
| 4-3950 | 4-4530 | 0.585 | 353.1 | -6.7 | -1.89 | 1.199 | 118.2 | 0.605 | 1.744 | 280.6 | 555.3 | 0.689 | 2.800 | -10.59 | 0.424 | 69.0 | 183.1 | -15.6 | 0.270 |
| 4-3950 | 4-4550 | 0.609 | 355.0 | -7.3 | -2.76 | 1.200 | 119.4 | 0.619 | 1.751 | 278.0 | 557.2 | 0.667 | 2.835 | -10.70 | 0.431 | 65.8 | 183.3 | -14.7 | 0.287 |
| 4-3950 | 4-4570 | 0.637 | 356.9 | -7.8 | -3.66 | 1.201 | 120.9 | 0.635 | 1.759 | 275.0 | 558.9 | 0.642 | 2.876 | -10.88 | 0.438 | 62.8 | 184.3 | -13.9 | 0.307 |
| 4-3950 | 4-4590 | 0.669 | 358.9 | -8.1 | -4.60 | 1.202 | 122.6 | 0.653 | 1.769 | 271.7 | 560.3 | 0.614 | 2.923 | -11.15 | 0.446 | 59.7 | 185.8 | -13.1 | 0.328 |
| 4-3950 | 4-4610 | 0.705 | 0.9 | -8.2 | -5.61 | 1.203 | 124.5 | 0.673 | 1.779 | 268.2 | 561.4 | 0.582 | 2.976 | -11.51 | 0.453 | 56.7 | 188.0 | -12.4 | 0.352 |
| 4-3950 | 4-4630 | 0.745 | 3.1 | -8.2 | -6.70 | 1.205 | 126.6 | 0.695 | 1.791 | 264.2 | 562.2 | 0.546 | 3.035 | -11.98 | 0.460 | 53.6 | 190.6 | -11.8 | 0.377 |
| 4-3950 | 4-4650 | 0.790 | 5.3 | -7.9 | -7.90 | 1.206 | 129.0 | 0.719 | 1.803 | 259.9 | 562.7 | 0.506 | 3.100 | -12.59 | 0.468 | 50.5 | 193.7 | -11.2 | 0.405 |
| 4-3960 | 4-4220 | 0.811 | 346.0 | 34.2 | 24.92 | 1.309 | 119.0 | 0.787 | 3.430 | 292.9 | 494.1 | 0.730 | --- | -29.44 | 0.634 | 141.3 | 208.9 | -18.6 | 0.611 |
| 4-3960 | 4-4240 | 0.722 | 345.0 | 30.0 | 20.28 | 1.282 | 117.1 | 0.729 | 2.764 | 294.2 | 498.9 | 0.750 | --- | -25.16 | 0.578 | 136.7 | 210.9 | -18.3 | 0.536 |
| 4-3960 | 4-4260 | 0.654 | 344.6 | 26.2 | 16.71 | 1.261 | 115.5 | 0.682 | 2.411 | 295.3 | 503.6 | 0.766 | --- | -21.97 | 0.534 | 131.9 | 212.2 | -18.3 | 0.473 |
| 4-3960 | 4-4280 | 0.602 | 344.5 | 22.7 | 13.88 | 1.245 | 114.2 | 0.645 | 2.197 | 296.3 | 508.3 | 0.780 | --- | -19.52 | 0.498 | 126.9 | 212.9 | -18.5 | 0.420 |
| 4-3960 | 4-4300 | 0.561 | 344.6 | 19.4 | 11.57 | 1.232 | 113.2 | 0.616 | 2.058 | 297.1 | 513.0 | 0.791 | --- | -17.60 | 0.470 | 121.8 | 213.1 | -18.8 | 0.375 |
| 4-3960 | 4-4320 | 0.530 | 345.0 | 16.3 | 9.64 | 1.223 | 112.4 | 0.593 | 1.963 | 297.7 | 517.6 | 0.799 | --- | -16.08 | 0.448 | 116.6 | 212.6 | -19.2 | 0.337 |
| 4-3960 | 4-4340 | 0.506 | 345.5 | 13.4 | 7.98 | 1.215 | 111.8 | 0.575 | 1.896 | 298.1 | 522.0 | 0.805 | --- | -14.84 | 0.432 | 111.5 | 211.5 | -19.7 | 0.305 |
| 4-3960 | 4-4360 | 0.489 | 346.3 | 10.6 | 6.53 | 1.210 | 111.4 | 0.562 | 1.849 | 298.3 | 526.2 | 0.809 | --- | -13.84 | 0.421 | 106.5 | 209.7 | -20.2 | 0.279 |
| 4-3960 | 4-4380 | 0.477 | 347.2 | 8.0 | 5.25 | 1.205 | 111.1 | 0.553 | 1.815 | 298.2 | 530.3 | 0.811 | --- | -13.01 | 0.414 | 101.6 | 207.3 | -20.7 | 0.258 |
| 4-3960 | 4-4400 | 0.470 | 348.2 | 5.6 | 4.09 | 1.202 | 111.1 | 0.547 | 1.791 | 298.0 | 534.2 | 0.810 | --- | -12.33 | 0.410 | 97.0 | 204.3 | -21.0 | 0.242 |
| 4-3960 | 4-4420 | 0.468 | 349.4 | 3.3 | 3.03 | 1.200 | 111.1 | 0.545 | 1.774 | 297.4 | 537.9 | 0.808 | --- | -11.77 | 0.408 | 92.6 | 200.9 | -21.1 | 0.232 |
| 4-3960 | 4-4440 | 0.470 | 350.7 | 1.3 | 2.04 | 1.199 | 111.4 | 0.544 | 1.763 | 296.6 | 541.3 | 0.803 | 2.723 | -11.32 | 0.409 | 88.4 | 197.4 | -20.8 | 0.226 |
| 4-3960 | 4-4460 | 0.475 | 352.2 | -0.6 | 1.11 | 1.198 | 111.8 | 0.547 | 1.757 | 295.4 | 544.6 | 0.797 | 2.717 | -10.95 | 0.412 | 84.5 | 194.0 | -20.3 | 0.224 |
| 4-3960 | 4-4480 | 0.483 | 353.7 | -2.2 | 0.22 | 1.198 | 112.3 | 0.551 | 1.754 | 294.1 | 547.6 | 0.788 | 2.721 | -10.67 | 0.416 | 80.9 | 191.1 | -19.6 | 0.227 |
| 4-3960 | 4-4500 | 0.495 | 355.4 | -3.6 | -0.64 | 1.198 | 113.0 | 0.557 | 1.755 | 292.4 | 550.4 | 0.777 | 2.732 | -10.46 | 0.421 | 77.5 | 188.8 | -18.6 | 0.233 |
| 4-3960 | 4-4520 | 0.511 | 357.1 | -4.7 | -1.48 | 1.198 | 113.9 | 0.566 | 1.757 | 290.5 | 553.0 | 0.763 | 2.751 | -10.31 | 0.427 | 74.2 | 187.2 | -17.6 | 0.243 |
| 4-3960 | 4-4540 | 0.529 | 358.9 | -5.6 | -2.31 | 1.199 | 114.9 | 0.576 | 1.762 | 288.2 | 555.3 | 0.747 | 2.776 | -10.24 | 0.433 | 71.1 | 186.5 | -16.6 | 0.255 |
| 4-3960 | 4-4560 | 0.551 | 0.8 | -6.3 | -3.14 | 1.199 | 116.0 | 0.588 | 1.768 | 285.7 | 557.4 | 0.729 | 2.807 | -10.23 | 0.440 | 68.2 | 186.5 | -15.6 | 0.270 |
| 4-3960 | 4-4580 | 0.576 | 2.8 | -6.8 | -3.98 | 1.200 | 117.3 | 0.602 | 1.776 | 282.9 | 559.2 | 0.707 | 2.845 | -10.29 | 0.446 | 65.3 | 187.2 | -14.6 | 0.287 |
| 4-3960 | 4-4600 | 0.605 | 4.8 | -7.1 | -4.85 | 1.202 | 118.9 | 0.618 | 1.785 | 279.8 | 560.8 | 0.682 | 2.888 | -10.42 | 0.453 | 62.5 | 188.5 | -13.7 | 0.307 |
| 4-3960 | 4-4620 | 0.637 | 6.9 | -7.3 | -5.76 | 1.203 | 120.6 | 0.636 | 1.795 | 276.4 | 562.2 | 0.653 | 2.936 | -10.63 | 0.460 | 59.7 | 190.4 | -12.9 | 0.328 |
| 4-3960 | 4-4640 | 0.674 | 9.0 | -7.2 | -6.71 | 1.204 | 122.5 | 0.656 | 1.806 | 272.7 | 563.2 | 0.621 | 2.991 | -10.93 | 0.467 | 56.9 | 192.9 | -12.2 | 0.351 |
| 4-3960 | 4-4660 | 0.714 | 11.2 | -6.9 | -7.73 | 1.206 | 124.6 | 0.678 | 1.818 | 268.6 | 563.9 | 0.585 | 3.051 | -11.32 | 0.474 | 54.1 | 195.8 | -11.6 | 0.376 |
| 4-3970 | 4-4250 | 0.778 | 349.0 | 45.2 | 28.09 | 1.281 | 114.7 | 0.718 | 2.801 | 299.8 | 497.2 | 0.790 | --- | -33.88 | 0.584 | 135.9 | 210.5 | -23.6 | 0.565 |
| 4-3970 | 4-4270 | 0.672 | 347.6 | 38.8 | 21.80 | 1.261 | 113.0 | 0.669 | 2.441 | 301.2 | 502.0 | 0.807 | --- | -27.94 | 0.540 | 131.1 | 213.0 | -22.8 | 0.492 |
| 4-3970 | 4-4290 | 0.597 | 347.3 | 33.1 | 17.23 | 1.245 | 111.7 | 0.631 | 2.224 | 302.4 | 506.9 | 0.821 | --- | -23.72 | 0.505 | 126.2 | 214.5 | -22.3 | 0.432 |
| 4-3970 | 4-4310 | 0.542 | 347.6 | 28.0 | 13.76 | 1.232 | 110.6 | 0.600 | 2.082 | 303.4 | 511.7 | 0.832 | --- | -20.61 | 0.478 | 121.1 | 215.2 | -22.0 | 0.383 |
| 4-3970 | 4-4330 | 0.501 | 348.2 | 23.4 | 11.04 | 1.223 | 109.8 | 0.577 | 1.985 | 304.2 | 516.3 | 0.841 | --- | -18.25 | 0.457 | 116.1 | 215.2 | -22.0 | 0.342 |
| 4-3970 | 4-4350 | 0.472 | 349.0 | 19.2 | 8.82 | 1.215 | 109.2 | 0.558 | 1.917 | 304.8 | 520.9 | 0.847 | --- | -16.41 | 0.441 | 111.2 | 214.4 | -22.2 | 0.308 |
| 4-3970 | 4-4370 | 0.450 | 350.0 | 15.3 | 6.98 | 1.210 | 108.7 | 0.545 | 1.869 | 305.1 | 525.3 | 0.851 | --- | -14.96 | 0.430 | 106.3 | 212.9 | -22.4 | 0.280 |
| 4-3970 | 4-4390 | 0.436 | 351.2 | 11.8 | 5.40 | 1.206 | 108.5 | 0.535 | 1.834 | 305.2 | 529.5 | 0.853 | --- | -13.79 | 0.423 | 101.7 | 210.7 | -22.6 | 0.258 |
| 4-3970 | 4-4410 | 0.427 | 352.5 | 8.5 | 4.03 | 1.202 | 108.4 | 0.529 | 1.810 | 305.0 | 533.4 | 0.853 | --- | -12.85 | 0.419 | 97.2 | 207.9 | -22.6 | 0.240 |
| 4-3970 | 4-4430 | 0.424 | 353.9 | 5.6 | 2.82 | 1.200 | 108.5 | 0.525 | 1.793 | 304.5 | 537.2 | 0.851 | --- | -12.08 | 0.418 | 93.1 | 204.6 | -22.5 | 0.228 |
| 4-3970 | 4-4450 | 0.424 | 355.5 | 3.1 | 1.72 | 1.199 | 108.7 | 0.524 | 1.781 | 303.7 | 540.8 | 0.848 | 2.715 | -11.44 | 0.419 | 89.1 | 201.2 | -22.1 | 0.221 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3970 | 4-4470 | 0.428 | 357.2 | 0.8 | 0.71 | 1.198 | 109.0 | 0.525 | 1.775 | 302.7 | 544.2 | 0.842 | 2.707 | -10.93 | 0.421 | 85.4 | 197.8 | -21.5 | 0.218 |
| 4-3970 | 4-4490 | 0.436 | 358.9 | -1.1 | -0.23 | 1.198 | 109.5 | 0.529 | 1.772 | 301.4 | 547.3 | 0.835 | 2.709 | -10.51 | 0.425 | 82.0 | 194.8 | -20.6 | 0.219 |
| 4-3970 | 4-4510 | 0.447 | 0.7 | -2.7 | -1.11 | 1.198 | 110.1 | 0.534 | 1.772 | 299.8 | 550.2 | 0.826 | 2.718 | -10.18 | 0.430 | 78.7 | 192.3 | -19.5 | 0.223 |
| 4-3970 | 4-4530 | 0.461 | 2.6 | -4.0 | -1.95 | 1.198 | 110.9 | 0.541 | 1.774 | 297.9 | 552.9 | 0.814 | 2.734 | -9.93 | 0.435 | 75.7 | 190.6 | -18.3 | 0.231 |
| 4-3970 | 4-4550 | 0.478 | 4.6 | -5.1 | -2.77 | 1.198 | 111.8 | 0.550 | 1.778 | 295.8 | 555.3 | 0.800 | 2.757 | -9.75 | 0.441 | 72.8 | 189.7 | -17.1 | 0.242 |
| 4-3970 | 4-4570 | 0.498 | 6.6 | -5.8 | -3.57 | 1.199 | 112.8 | 0.561 | 1.784 | 293.4 | 557.5 | 0.784 | 2.785 | -9.64 | 0.448 | 70.1 | 189.5 | -16.0 | 0.255 |
| 4-3970 | 4-4590 | 0.521 | 8.6 | -6.3 | -4.37 | 1.200 | 114.0 | 0.573 | 1.792 | 290.7 | 559.5 | 0.765 | 2.819 | -9.59 | 0.454 | 67.4 | 190.0 | -14.9 | 0.271 |
| 4-3970 | 4-4610 | 0.547 | 10.6 | -6.6 | -5.16 | 1.201 | 115.4 | 0.587 | 1.801 | 287.7 | 561.3 | 0.743 | 2.858 | -9.60 | 0.461 | 64.8 | 191.2 | -14.0 | 0.288 |
| 4-3970 | 4-4630 | 0.576 | 12.7 | -6.7 | -5.98 | 1.203 | 116.9 | 0.603 | 1.810 | 284.4 | 562.7 | 0.718 | 2.903 | -9.69 | 0.467 | 62.3 | 192.9 | -13.1 | 0.307 |
| 4-3970 | 4-4650 | 0.609 | 14.8 | -6.5 | -6.82 | 1.204 | 118.7 | 0.621 | 1.821 | 280.9 | 564.0 | 0.689 | 2.953 | -9.85 | 0.473 | 59.7 | 195.2 | -12.3 | 0.328 |
| 4-3970 | 4-4670 | 0.646 | 17.0 | -6.2 | -7.70 | 1.205 | 120.6 | 0.641 | 1.833 | 277.0 | 564.9 | 0.657 | 3.009 | -10.08 | 0.480 | 57.1 | 197.9 | -11.6 | 0.351 |
| 4-3980 | 4-4280 | 0.782 | 350.7 | 57.6 | 32.47 | 1.259 | 110.6 | 0.656 | 2.459 | 307.0 | 500.7 | 0.845 | --- | -39.42 | 0.544 | 130.2 | 210.6 | -29.2 | 0.541 |
| 4-3980 | 4-4300 | 0.640 | 348.6 | 48.3 | 23.65 | 1.244 | 109.2 | 0.616 | 2.241 | 308.6 | 505.7 | 0.860 | --- | -30.91 | 0.510 | 125.3 | 214.3 | -27.7 | 0.460 |
| 4-3980 | 4-4320 | 0.547 | 348.8 | 40.1 | 17.68 | 1.231 | 108.1 | 0.585 | 2.099 | 309.9 | 510.6 | 0.871 | --- | -25.26 | 0.484 | 120.4 | 216.2 | -26.5 | 0.400 |
| 4-3980 | 4-4340 | 0.485 | 349.8 | 32.9 | 13.41 | 1.222 | 107.2 | 0.561 | 2.002 | 310.9 | 515.4 | 0.879 | --- | -21.32 | 0.463 | 115.5 | 216.9 | -25.6 | 0.352 |
| 4-3980 | 4-4360 | 0.444 | 351.1 | 26.6 | 10.22 | 1.215 | 106.6 | 0.542 | 1.934 | 311.6 | 520.1 | 0.885 | --- | -18.45 | 0.448 | 110.7 | 216.7 | -25.1 | 0.313 |
| 4-3980 | 4-4380 | 0.416 | 352.6 | 20.9 | 7.72 | 1.209 | 106.2 | 0.528 | 1.885 | 312.1 | 524.6 | 0.889 | --- | -16.30 | 0.438 | 106.0 | 215.5 | -24.8 | 0.282 |
| 4-3980 | 4-4400 | 0.397 | 354.3 | 15.9 | 5.70 | 1.205 | 105.9 | 0.518 | 1.851 | 312.3 | 528.9 | 0.891 | --- | -14.64 | 0.431 | 101.5 | 213.6 | -24.5 | 0.257 |
| 4-3980 | 4-4420 | 0.386 | 356.0 | 11.5 | 4.03 | 1.202 | 105.8 | 0.512 | 1.826 | 312.1 | 533.0 | 0.892 | --- | -13.33 | 0.427 | 97.3 | 211.0 | -24.2 | 0.238 |
| 4-3980 | 4-4440 | 0.381 | 357.8 | 7.7 | 2.60 | 1.200 | 105.8 | 0.508 | 1.809 | 311.7 | 536.8 | 0.891 | --- | -12.29 | 0.426 | 93.3 | 207.9 | -23.8 | 0.225 |
| 4-3980 | 4-4460 | 0.381 | 359.8 | 4.4 | 1.36 | 1.199 | 106.0 | 0.506 | 1.797 | 311.0 | 540.5 | 0.888 | 2.707 | -11.44 | 0.427 | 89.5 | 204.5 | -23.1 | 0.216 |
| 4-3980 | 4-4480 | 0.384 | 1.7 | 1.6 | 0.26 | 1.198 | 106.3 | 0.507 | 1.791 | 310.1 | 543.9 | 0.883 | 2.698 | -10.76 | 0.430 | 86.0 | 201.1 | -22.2 | 0.211 |
| 4-3980 | 4-4500 | 0.392 | 3.7 | -0.7 | -0.73 | 1.197 | 106.7 | 0.509 | 1.788 | 308.8 | 547.1 | 0.877 | 2.698 | -10.20 | 0.433 | 82.7 | 198.0 | -21.1 | 0.211 |
| 4-3980 | 4-4520 | 0.402 | 5.8 | -2.6 | -1.65 | 1.197 | 107.3 | 0.514 | 1.788 | 307.3 | 550.1 | 0.869 | 2.706 | -9.75 | 0.438 | 79.7 | 195.5 | -19.9 | 0.215 |
| 4-3980 | 4-4540 | 0.415 | 7.9 | -4.1 | -2.50 | 1.198 | 108.0 | 0.520 | 1.790 | 305.4 | 552.8 | 0.859 | 2.720 | -9.40 | 0.443 | 76.8 | 193.7 | -18.6 | 0.221 |
| 4-3980 | 4-4560 | 0.431 | 10.0 | -5.2 | -3.30 | 1.198 | 108.9 | 0.528 | 1.794 | 303.3 | 555.4 | 0.848 | 2.741 | -9.12 | 0.449 | 74.1 | 192.6 | -17.2 | 0.231 |
| 4-3980 | 4-4580 | 0.449 | 12.1 | -5.9 | -4.07 | 1.199 | 109.8 | 0.537 | 1.800 | 301.0 | 557.7 | 0.834 | 2.767 | -8.91 | 0.455 | 71.5 | 192.3 | -16.0 | 0.243 |
| 4-3980 | 4-4600 | 0.471 | 14.2 | -6.4 | -4.82 | 1.200 | 110.9 | 0.548 | 1.807 | 298.4 | 559.8 | 0.817 | 2.798 | -8.77 | 0.461 | 69.1 | 192.7 | -14.8 | 0.256 |
| 4-3980 | 4-4620 | 0.495 | 16.4 | -6.6 | -5.55 | 1.201 | 112.2 | 0.561 | 1.816 | 295.4 | 561.6 | 0.798 | 2.834 | -8.69 | 0.467 | 66.7 | 193.7 | -13.8 | 0.272 |
| 4-3980 | 4-4640 | 0.521 | 18.5 | -6.6 | -6.28 | 1.202 | 113.6 | 0.575 | 1.826 | 292.3 | 563.2 | 0.776 | 2.875 | -8.67 | 0.473 | 64.3 | 195.3 | -12.8 | 0.289 |
| 4-3980 | 4-4660 | 0.551 | 20.6 | -6.4 | -7.02 | 1.203 | 115.2 | 0.591 | 1.836 | 288.8 | 564.6 | 0.751 | 2.922 | -8.71 | 0.479 | 62.0 | 197.5 | -12.0 | 0.308 |
| 4-3980 | 4-4680 | 0.584 | 22.8 | -6.0 | -7.78 | 1.205 | 116.9 | 0.609 | 1.848 | 285.1 | 565.7 | 0.723 | 2.973 | -8.82 | 0.485 | 59.6 | 200.0 | -11.3 | 0.329 |
| 4-3990 | 4-4310 | 0.843 | 350.1 | 71.5 | 39.22 | 1.242 | 106.8 | 0.603 | 2.250 | 314.6 | 504.8 | 0.893 | --- | -47.19 | 0.514 | 124.4 | 208.5 | -34.8 | 0.545 |
| 4-3990 | 4-4330 | 0.629 | 346.6 | 58.2 | 26.06 | 1.230 | 105.5 | 0.571 | 2.110 | 316.4 | 509.8 | 0.906 | --- | -34.31 | 0.488 | 119.5 | 214.4 | -32.8 | 0.442 |
| 4-3990 | 4-4350 | 0.505 | 348.4 | 46.7 | 18.00 | 1.221 | 104.6 | 0.546 | 2.014 | 317.8 | 514.8 | 0.914 | --- | -26.53 | 0.468 | 114.7 | 217.2 | -30.6 | 0.373 |
| 4-3990 | 4-4370 | 0.432 | 350.9 | 36.8 | 12.71 | 1.214 | 104.0 | 0.527 | 1.946 | 318.7 | 519.6 | 0.920 | --- | -21.52 | 0.454 | 110.0 | 218.0 | -28.9 | 0.324 |
| 4-3990 | 4-4390 | 0.388 | 353.5 | 28.2 | 9.00 | 1.209 | 103.5 | 0.513 | 1.898 | 319.3 | 524.2 | 0.924 | --- | -18.10 | 0.444 | 105.5 | 217.5 | -27.6 | 0.287 |
| 4-3990 | 4-4410 | 0.362 | 356.0 | 20.8 | 6.24 | 1.205 | 103.3 | 0.503 | 1.864 | 319.6 | 528.6 | 0.926 | --- | -15.63 | 0.438 | 101.1 | 215.9 | -26.6 | 0.258 |
| 4-3990 | 4-4430 | 0.347 | 358.5 | 14.5 | 4.09 | 1.202 | 103.2 | 0.496 | 1.839 | 319.5 | 532.7 | 0.926 | --- | -13.80 | 0.435 | 97.1 | 213.5 | -25.8 | 0.237 |
| 4-3990 | 4-4450 | 0.341 | 0.9 | 9.3 | 2.37 | 1.199 | 103.2 | 0.492 | 1.822 | 319.2 | 536.7 | 0.926 | --- | -12.39 | 0.434 | 93.2 | 210.5 | -24.8 | 0.221 |
| 4-3990 | 4-4470 | 0.340 | 3.3 | 4.9 | 0.93 | 1.198 | 103.4 | 0.490 | 1.811 | 318.5 | 540.4 | 0.923 | 2.699 | -11.28 | 0.435 | 89.6 | 207.2 | -23.8 | 0.211 |
| 4-3990 | 4-4490 | 0.343 | 5.7 | 1.4 | -0.29 | 1.197 | 103.7 | 0.491 | 1.805 | 317.5 | 543.9 | 0.920 | 2.690 | -10.41 | 0.437 | 86.3 | 203.8 | -22.6 | 0.205 |
| 4-3990 | 4-4510 | 0.350 | 8.1 | -1.4 | -1.35 | 1.197 | 104.1 | 0.493 | 1.802 | 316.3 | 547.1 | 0.914 | 2.690 | -9.70 | 0.441 | 83.2 | 200.7 | -21.2 | 0.204 |
| 4-3990 | 4-4530 | 0.360 | 10.5 | -3.5 | -2.29 | 1.197 | 104.6 | 0.496 | 1.802 | 314.8 | 550.1 | 0.908 | 2.696 | -9.14 | 0.445 | 80.3 | 198.2 | -19.7 | 0.207 |
| 4-3990 | 4-4550 | 0.373 | 12.8 | -5.1 | -3.15 | 1.197 | 105.3 | 0.502 | 1.804 | 313.0 | 552.9 | 0.899 | 2.709 | -8.68 | 0.450 | 77.6 | 196.3 | -18.2 | 0.212 |
| 4-3990 | 4-4570 | 0.388 | 15.1 | -6.3 | -3.93 | 1.198 | 106.1 | 0.508 | 1.809 | 310.9 | 555.5 | 0.889 | 2.728 | -8.31 | 0.456 | 75.1 | 195.2 | -16.8 | 0.221 |
| 4-3990 | 4-4590 | 0.406 | 17.4 | -7.0 | -4.67 | 1.199 | 107.0 | 0.517 | 1.815 | 308.6 | 557.9 | 0.877 | 2.752 | -8.03 | 0.462 | 72.7 | 194.8 | -15.4 | 0.231 |
| 4-3990 | 4-4610 | 0.425 | 19.7 | -7.4 | -5.36 | 1.199 | 108.0 | 0.526 | 1.822 | 306.0 | 560.0 | 0.863 | 2.781 | -7.81 | 0.468 | 70.4 | 195.1 | -14.2 | 0.244 |
| 4-3990 | 4-4630 | 0.447 | 21.9 | -7.5 | -6.03 | 1.201 | 109.2 | 0.538 | 1.831 | 303.1 | 562.0 | 0.847 | 2.815 | -7.65 | 0.474 | 68.1 | 196.1 | -13.1 | 0.258 |
| 4-3990 | 4-4650 | 0.472 | 24.1 | -7.3 | -6.68 | 1.202 | 110.5 | 0.550 | 1.841 | 300.0 | 563.7 | 0.828 | 2.853 | -7.55 | 0.479 | 66.0 | 197.6 | -12.1 | 0.274 |
| 4-3990 | 4-4670 | 0.499 | 26.3 | -6.9 | -7.32 | 1.203 | 111.9 | 0.565 | 1.851 | 296.6 | 565.2 | 0.806 | 2.896 | -7.51 | 0.485 | 63.8 | 199.7 | -11.3 | 0.291 |
| 4-3990 | 4-4690 | 0.529 | 28.5 | -6.3 | -7.97 | 1.204 | 113.5 | 0.581 | 1.862 | 293.0 | 566.4 | 0.781 | 2.944 | -7.52 | 0.491 | 61.7 | 202.2 | -10.5 | 0.310 |
| 4-4000 | 4-4240 | 0.746 | 48.0 | -38.6 | -28.20 | 1.333 | 108.0 | 0.815 | 4.867 | 319.7 | 481.9 | 0.902 | --- | 20.43 | 0.701 | 140.5 | 220.9 | 14.5 | 0.620 |
| 4-4000 | 4-4260 | 0.792 | 58.9 | -43.6 | -33.88 | 1.300 | 106.1 | 0.732 | 3.417 | 321.6 | 487.4 | 0.917 | --- | 25.90 | 0.638 | 136.3 | 220.2 | 19.8 | 0.567 |
| 4-4000 | 4-4280 | 0.915 | 74.8 | -46.0 | -43.38 | 1.275 | 104.4 | 0.667 | 2.794 | 323.7 | 493.0 | 0.931 | --- | 35.18 | 0.587 | 131.8 | 216.8 | 27.3 | 0.549 |
| 4-4000 | 4-4300 | 1.179 | 95.1 | -42.0 | -61.03 | 1.255 | 102.7 | 0.615 | 2.455 | 326.3 | 498.5 | 0.944 | --- | 52.61 | 0.547 | 127.1 | 207.6 | 35.2 | 0.602 |
| 4-4000 | 4-4340 | 1.009 | 329.9 | 87.6 | 51.31 | 1.228 | 103.3 | 0.558 | 2.112 | 322.4 | 509.5 | 0.934 | --- | -60.17 | 0.491 | 118.6 | 203.1 | -38.5 | 0.600 |
| 4-4000 | 4-4360 | 0.649 | 338.4 | 68.3 | 29.57 | 1.219 | 102.1 | 0.532 | 2.019 | 324.7 | 514.5 | 0.944 | --- | -38.65 | 0.472 | 113.8 | 213.2 | -37.7 | 0.441 |
| 4-4000 | 4-4380 | 0.469 | 345.5 | 52.4 | 18.10 | 1.213 | 101.4 | 0.513 | 1.953 | 326.0 | 519.4 | 0.950 | --- | -27.41 | 0.458 | 109.2 | 217.5 | -34.5 | 0.352 |
| 4-4000 | 4-4400 | 0.379 | 351.0 | 38.7 | 11.47 | 1.207 | 100.9 | 0.500 | 1.906 | 326.8 | 524.1 | 0.954 | --- | -21.02 | 0.449 | 104.7 | 218.5 | -31.5 | 0.298 |
| 4-4000 | 4-4420 | 0.334 | 355.6 | 27.1 | 7.22 | 1.204 | 100.7 | 0.490 | 1.873 | 327.1 | 528.6 | 0.956 | --- | -17.00 | 0.443 | 100.6 | 217.6 | -29.2 | 0.261 |
| 4-4000 | 4-4440 | 0.312 | 359.4 | 17.6 | 4.26 | 1.201 | 100.6 | 0.483 | 1.849 | 327.1 | 532.8 | 0.956 | --- | -14.29 | 0.440 | 96.6 | 215.5 | -27.3 | 0.235 |
| 4-4000 | 4-4460 | 0.303 | 2.9 | 10.1 | 2.07 | 1.199 | 100.6 | 0.479 | 1.833 | 326.8 | 536.8 | 0.956 | --- | -12.35 | 0.440 | 92.9 | 212.6 | -25.6 | 0.217 |
| 4-4000 | 4-4480 | 0.302 | 6.1 | 4.2 | 0.37 | 1.197 | 100.8 | 0.477 | 1.823 | 326.1 | 540.5 | 0.954 | 2.692 | -10.91 | 0.441 | 89.5 | 209.3 | -24.0 | 0.205 |
| 4-4000 | 4-4500 | 0.306 | 9.1 | -0.2 | -1.00 | 1.197 | 101.1 | 0.477 | 1.817 | 325.2 | 544.0 | 0.951 | 2.683 | -9.81 | 0.443 | 86.4 | 206.0 | -22.3 | 0.199 |
| 4-4000 | 4-4520 | 0.313 | 12.0 | -3.6 | -2.13 | 1.196 | 101.5 | 0.478 | 1.814 | 323.9 | 547.3 | 0.946 | 2.682 | -8.95 | 0.447 | 83.4 | 202.9 | -20.5 | 0.197 |
| 4-4000 | 4-4540 | 0.324 | 14.7 | -6.0 | -3.10 | 1.196 | 102.0 | 0.482 | 1.815 | 322.4 | 550.3 | 0.941 | 2.689 | -8.28 | 0.452 | 80.7 | 200.4 | -18.8 | 0.199 |
| 4-4000 | 4-4560 | 0.336 | 17.3 | -7.6 | -3.95 | 1.197 | 102.7 | 0.486 | 1.817 | 320.6 | 553.2 | 0.934 | 2.701 | -7.73 | 0.457 | 78.1 | 198.5 | -17.2 | 0.204 |
| 4-4000 | 4-4580 | 0.351 | 19.9 | -8.7 | -4.71 | 1.197 | 103.4 | 0.492 | 1.822 | 318.5 | 555.8 | 0.925 | 2.719 | -7.30 | 0.462 | 75.7 | 197.4 | -15.6 | 0.212 |
| 4-4000 | 4-4600 | 0.367 | 22.4 | -9.3 | -5.39 | 1.198 | 104.3 | 0.499 | 1.828 | 316.1 | 558.2 | 0.915 | 2.741 | -6.95 | 0.468 | 73.5 | 197.0 | -14.2 | 0.222 |
| 4-4000 | 4-4620 | 0.386 | 24.8 | -9.4 | -6.03 | 1.199 | 105.3 | 0.508 | 1.836 | 313.6 | 560.4 | 0.903 | 2.769 | -6.68 | 0.474 | 71.3 | 197.4 | -12.9 | 0.233 |
| 4-4000 | 4-4640 | 0.406 | 27.2 | -9.3 | -6.62 | 1.200 | 106.4 | 0.518 | 1.845 | 310.7 | 562.3 | 0.889 | 2.800 | -6.47 | 0.479 | 69.3 | 198.3 | -11.8 | 0.247 |
| 4-4000 | 4-4660 | 0.429 | 29.5 | -8.8 | -7.19 | 1.201 | 107.6 | 0.529 | 1.855 | 307.6 | 564.1 | 0.873 | 2.836 | -6.31 | 0.485 | 67.3 | 199.8 | -10.8 | 0.261 |
| 4-4000 | 4-4680 | 0.453 | 31.7 | -8.2 | -7.73 | 1.203 | 108.9 | 0.542 | 1.865 | 304.3 | 565.7 | 0.854 | 2.876 | -6.21 | 0.490 | 65.3 | 201.8 | -10.0 | 0.277 |
| 4-4000 | 4-4700 | 0.480 | 33.9 | -7.4 | -8.27 | 1.204 | 110.4 | 0.556 | 1.877 | 300.7 | 567.0 | 0.833 | 2.921 | -6.15 | 0.496 | 63.4 | 204.3 | -9.3 | 0.295 |
| 4-4010 | 4-4230 | 0.632 | 36.8 | -28.0 | -18.03 | 1.369 | 107.0 | 0.905 | 9.711 | 324.2 | 475.6 | 0.921 | --- | 9.63 | 0.769 | 143.3 | 223.7 | 6.6 | 0.670 |
| 4-4010 | 4-4250 | 0.600 | 40.1 | -33.3 | -19.61 | 1.327 | 105.0 | 0.797 | 4.614 | 326.0 | 481.3 | 0.935 | --- | 11.04 | 0.694 | 139.3 | 224.9 | 8.5 | 0.587 |
| 4-4010 | 4-4270 | 0.590 | 44.6 | -38.8 | -21.76 | 1.295 | 103.3 | 0.715 | 3.325 | 327.9 | 487.0 | 0.947 | --- | 13.02 | 0.633 | 135.1 | 225.6 | 11.2 | 0.520 |
| 4-4010 | 4-4290 | 0.607 | 51.4 | -44.2 | -24.89 | 1.271 | 101.9 | 0.652 | 2.750 | 329.7 | 492.8 | 0.957 | --- | 15.98 | 0.584 | 130.7 | 225.8 | 15.1 | 0.467 |
| 4-4010 | 4-4310 | 0.664 | 62.1 | -49.0 | -29.85 | 1.252 | 100.6 | 0.603 | 2.432 | 331.6 | 498.5 | 0.965 | --- | 20.78 | 0.545 | 126.1 | 224.7 | 21.1 | 0.433 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4010 | 4-4330 | 0.797 | 79.2 | -51.4 | -38.91 | 1.237 | 99.5 | 0.565 | 2.236 | 333.5 | 504.2 | 0.973 | --- | 29.67 | 0.515 | 121.4 | 220.8 | 30.1 | 0.434 |
| 4-4010 | 4-4350 | 1.115 | 103.9 | -46.3 | -58.82 | 1.226 | 98.4 | 0.535 | 2.107 | 335.7 | 509.6 | 0.980 | --- | 49.42 | 0.491 | 116.6 | 209.4 | 39.4 | 0.526 |
| 4-4010 | 4-4390 | 0.729 | 309.7 | 77.7 | 35.84 | 1.211 | 98.9 | 0.501 | 1.955 | 333.2 | 519.7 | 0.975 | --- | -45.59 | 0.461 | 108.2 | 210.0 | -41.8 | 0.469 |
| 4-4010 | 4-4410 | 0.434 | 340.0 | 56.0 | 17.74 | 1.206 | 98.3 | 0.488 | 1.910 | 334.5 | 524.5 | 0.979 | --- | -27.66 | 0.453 | 103.8 | 217.2 | -37.7 | 0.334 |
| 4-4010 | 4-4430 | 0.323 | 351.1 | 36.7 | 9.32 | 1.202 | 98.0 | 0.478 | 1.879 | 335.0 | 529.0 | 0.981 | --- | -19.42 | 0.447 | 99.8 | 218.3 | -32.9 | 0.270 |
| 4-4010 | 4-4450 | 0.281 | 358.3 | 21.0 | 4.62 | 1.200 | 97.9 | 0.472 | 1.856 | 335.0 | 533.2 | 0.981 | --- | -14.90 | 0.445 | 96.0 | 216.8 | -29.1 | 0.234 |
| 4-4010 | 4-4470 | 0.268 | 3.6 | 9.4 | 1.63 | 1.198 | 98.0 | 0.468 | 1.841 | 334.7 | 537.2 | 0.980 | --- | -12.09 | 0.445 | 92.5 | 214.1 | -26.0 | 0.212 |
| 4-4010 | 4-4490 | 0.268 | 8.1 | 1.3 | -0.46 | 1.197 | 98.2 | 0.466 | 1.832 | 334.0 | 540.9 | 0.979 | 2.685 | -10.20 | 0.446 | 89.2 | 210.9 | -23.4 | 0.199 |
| 4-4010 | 4-4510 | 0.274 | 11.9 | -4.3 | -2.00 | 1.196 | 98.5 | 0.466 | 1.826 | 333.0 | 544.4 | 0.976 | 2.677 | -8.85 | 0.449 | 86.2 | 207.6 | -21.0 | 0.192 |
| 4-4010 | 4-4530 | 0.283 | 15.3 | -8.1 | -3.21 | 1.196 | 98.9 | 0.467 | 1.825 | 331.7 | 547.7 | 0.973 | 2.676 | -7.84 | 0.453 | 83.4 | 204.6 | -18.9 | 0.190 |
| 4-4010 | 4-4550 | 0.294 | 18.5 | -10.6 | -4.18 | 1.196 | 99.4 | 0.470 | 1.826 | 330.1 | 550.7 | 0.968 | 2.683 | -7.08 | 0.457 | 80.8 | 202.1 | -16.9 | 0.191 |
| 4-4010 | 4-4570 | 0.306 | 21.5 | -12.1 | -5.00 | 1.196 | 100.1 | 0.474 | 1.829 | 328.2 | 553.5 | 0.963 | 2.695 | -6.48 | 0.462 | 78.4 | 200.3 | -15.1 | 0.196 |
| 4-4010 | 4-4590 | 0.320 | 24.3 | -12.9 | -5.70 | 1.197 | 100.8 | 0.479 | 1.834 | 326.1 | 556.2 | 0.956 | 2.712 | -6.01 | 0.468 | 76.1 | 199.3 | -13.5 | 0.204 |
| 4-4010 | 4-4610 | 0.336 | 27.0 | -13.1 | -6.31 | 1.198 | 101.7 | 0.485 | 1.841 | 323.8 | 558.6 | 0.947 | 2.734 | -5.64 | 0.473 | 74.0 | 199.0 | -12.1 | 0.213 |
| 4-4010 | 4-4630 | 0.353 | 29.6 | -12.9 | -6.86 | 1.199 | 102.6 | 0.493 | 1.849 | 321.1 | 560.8 | 0.937 | 2.760 | -5.34 | 0.479 | 72.0 | 199.3 | -10.9 | 0.225 |
| 4-4010 | 4-4650 | 0.371 | 32.1 | -12.4 | -7.36 | 1.200 | 103.6 | 0.502 | 1.858 | 318.3 | 562.8 | 0.926 | 2.790 | -5.10 | 0.485 | 70.1 | 200.3 | -9.8 | 0.237 |
| 4-4010 | 4-4670 | 0.391 | 34.5 | -11.5 | -7.83 | 1.201 | 104.8 | 0.512 | 1.868 | 315.2 | 564.6 | 0.912 | 2.823 | -4.92 | 0.490 | 68.3 | 201.9 | -8.9 | 0.251 |
| 4-4010 | 4-4690 | 0.413 | 36.8 | -10.5 | -8.27 | 1.202 | 106.1 | 0.523 | 1.879 | 311.9 | 566.2 | 0.896 | 2.861 | -4.78 | 0.495 | 66.5 | 203.9 | -8.2 | 0.266 |
| 4-4010 | 4-4710 | 0.437 | 39.1 | -9.3 | -8.69 | 1.204 | 107.5 | 0.536 | 1.890 | 308.4 | 567.6 | 0.877 | 2.903 | -4.69 | 0.500 | 64.7 | 206.3 | -7.5 | 0.282 |
| 4-4020 | 4-4220 | 0.608 | 34.0 | -20.6 | -13.73 | 1.414 | 105.6 | 1.025 | 37.908 | 329.2 | 469.4 | 0.941 | --- | 4.60 | 0.848 | 145.7 | 224.8 | 3.0 | 0.744 |
| 4-4020 | 4-4240 | 0.549 | 34.9 | -25.0 | -14.27 | 1.361 | 103.5 | 0.883 | 8.127 | 331.1 | 475.1 | 0.954 | --- | 5.03 | 0.757 | 142.0 | 226.3 | 3.6 | 0.646 |
| 4-4020 | 4-4260 | 0.507 | 36.1 | -29.5 | -14.92 | 1.320 | 101.8 | 0.776 | 4.315 | 333.0 | 481.1 | 0.965 | --- | 5.57 | 0.684 | 138.0 | 227.5 | 4.5 | 0.563 |
| 4-4020 | 4-4280 | 0.480 | 37.6 | -34.3 | -15.75 | 1.289 | 100.2 | 0.696 | 3.205 | 335.0 | 487.0 | 0.974 | --- | 6.29 | 0.625 | 133.7 | 228.5 | 5.7 | 0.495 |
| 4-4020 | 4-4300 | 0.467 | 39.8 | -39.1 | -16.85 | 1.266 | 98.9 | 0.635 | 2.688 | 337.0 | 493.0 | 0.982 | --- | 7.28 | 0.578 | 129.3 | 229.2 | 7.5 | 0.437 |
| 4-4020 | 4-4320 | 0.468 | 43.2 | -44.0 | -18.37 | 1.248 | 97.8 | 0.588 | 2.396 | 338.8 | 498.9 | 0.988 | --- | 8.69 | 0.541 | 124.7 | 229.5 | 10.0 | 0.388 |
| 4-4020 | 4-4340 | 0.487 | 48.6 | -48.9 | -20.67 | 1.234 | 96.9 | 0.552 | 2.214 | 340.5 | 504.7 | 0.992 | --- | 10.88 | 0.512 | 120.1 | 229.1 | 13.8 | 0.350 |
| 4-4020 | 4-4360 | 0.539 | 58.1 | -53.6 | -24.57 | 1.223 | 96.2 | 0.524 | 2.093 | 341.9 | 510.2 | 0.996 | --- | 14.67 | 0.490 | 115.5 | 227.7 | 20.1 | 0.326 |
| 4-4020 | 4-4380 | 0.665 | 76.6 | -56.9 | -32.60 | 1.215 | 95.6 | 0.503 | 2.010 | 343.2 | 515.6 | 0.999 | --- | 22.59 | 0.474 | 111.0 | 223.6 | 30.6 | 0.334 |
| 4-4020 | 4-4400 | 1.059 | 111.1 | -51.1 | -56.39 | 1.209 | 95.0 | 0.487 | 1.951 | 344.8 | 520.7 | 1.001 | --- | 46.27 | 0.462 | 106.6 | 210.3 | 42.8 | 0.471 |
| 4-4020 | 4-4420 | 0.996 | 223.1 | 75.9 | 52.63 | 1.204 | 95.9 | 0.478 | 1.910 | 341.8 | 525.1 | 0.997 | --- | -62.86 | 0.455 | 102.9 | 203.7 | -42.6 | 0.583 |
| 4-4020 | 4-4440 | 0.391 | 334.3 | 55.8 | 16.27 | 1.201 | 95.4 | 0.469 | 1.880 | 343.1 | 529.7 | 0.999 | --- | -26.62 | 0.450 | 98.8 | 216.5 | -39.7 | 0.312 |
| 4-4020 | 4-4460 | 0.261 | 353.8 | 26.1 | 5.56 | 1.199 | 95.3 | 0.463 | 1.860 | 343.2 | 534.0 | 1.000 | --- | -16.02 | 0.448 | 95.2 | 217.4 | -31.4 | 0.237 |
| 4-4020 | 4-4480 | 0.239 | 3.3 | 5.8 | 0.80 | 1.197 | 95.4 | 0.459 | 1.846 | 342.8 | 537.9 | 0.999 | --- | -11.38 | 0.449 | 91.8 | 215.0 | -25.5 | 0.206 |
| 4-4020 | 4-4500 | 0.242 | 9.7 | -5.9 | -1.87 | 1.196 | 95.6 | 0.457 | 1.838 | 342.1 | 541.6 | 0.998 | 2.678 | -8.83 | 0.451 | 88.6 | 211.9 | -21.3 | 0.190 |
| 4-4020 | 4-4520 | 0.252 | 14.5 | -12.5 | -3.59 | 1.195 | 95.9 | 0.457 | 1.834 | 341.0 | 545.1 | 0.996 | 2.671 | -7.23 | 0.454 | 85.7 | 208.6 | -18.1 | 0.183 |
| 4-4020 | 4-4540 | 0.263 | 18.5 | -16.3 | -4.80 | 1.195 | 96.4 | 0.458 | 1.833 | 339.6 | 548.3 | 0.993 | 2.672 | -6.14 | 0.458 | 83.1 | 205.6 | -15.5 | 0.182 |
| 4-4020 | 4-4560 | 0.274 | 22.1 | -18.3 | -5.71 | 1.195 | 96.9 | 0.460 | 1.834 | 337.9 | 551.3 | 0.990 | 2.679 | -5.36 | 0.462 | 80.7 | 203.3 | -13.4 | 0.184 |
| 4-4020 | 4-4580 | 0.287 | 25.3 | -19.2 | -6.43 | 1.196 | 97.6 | 0.464 | 1.838 | 336.0 | 554.1 | 0.985 | 2.691 | -4.78 | 0.467 | 78.4 | 201.6 | -11.6 | 0.190 |
| 4-4020 | 4-4600 | 0.300 | 28.3 | -19.4 | -7.01 | 1.197 | 98.3 | 0.469 | 1.844 | 333.8 | 556.7 | 0.980 | 2.708 | -4.34 | 0.473 | 76.3 | 200.7 | -10.1 | 0.197 |
| 4-4020 | 4-4620 | 0.313 | 31.2 | -19.0 | -7.50 | 1.198 | 99.1 | 0.474 | 1.851 | 331.4 | 559.1 | 0.973 | 2.729 | -3.99 | 0.478 | 74.3 | 200.6 | -8.9 | 0.207 |
| 4-4020 | 4-4640 | 0.328 | 33.9 | -18.1 | -7.93 | 1.199 | 100.0 | 0.481 | 1.860 | 328.7 | 561.2 | 0.965 | 2.754 | -3.72 | 0.484 | 72.5 | 201.1 | -7.9 | 0.218 |
| 4-4020 | 4-4660 | 0.344 | 36.5 | -17.0 | -8.30 | 1.200 | 101.0 | 0.489 | 1.869 | 325.9 | 563.2 | 0.956 | 2.783 | -3.50 | 0.489 | 70.7 | 202.1 | -7.1 | 0.230 |
| 4-4020 | 4-4680 | 0.361 | 39.1 | -15.6 | -8.64 | 1.201 | 102.2 | 0.498 | 1.880 | 322.8 | 565.1 | 0.945 | 2.815 | -3.33 | 0.495 | 69.0 | 203.7 | -6.3 | 0.243 |
| 4-4020 | 4-4700 | 0.381 | 41.5 | -14.0 | -8.95 | 1.202 | 103.4 | 0.508 | 1.891 | 319.5 | 566.7 | 0.931 | 2.851 | -3.20 | 0.500 | 67.4 | 205.8 | -5.7 | 0.257 |
| 4-4020 | 4-4720 | 0.402 | 43.9 | -12.3 | -9.24 | 1.204 | 104.7 | 0.519 | 1.903 | 315.9 | 568.1 | 0.916 | 2.890 | -3.10 | 0.504 | 65.7 | 208.2 | -5.2 | 0.272 |
| 4-4030 | 4-4210 | 0.618 | 33.3 | -15.9 | -11.52 | 1.471 | 103.8 | 1.185 | -5.183 | 334.5 | 463.3 | 0.961 | --- | 1.56 | 0.941 | 147.8 | 225.4 | 0.9 | 0.834 |
| 4-4030 | 4-4230 | 0.540 | 33.2 | -19.7 | -11.66 | 1.402 | 101.7 | 0.994 | 69.206 | 336.4 | 469.2 | 0.973 | --- | 1.66 | 0.830 | 144.3 | 226.9 | 1.1 | 0.718 |
| 4-4030 | 4-4250 | 0.482 | 33.0 | -23.6 | -11.83 | 1.350 | 99.9 | 0.855 | 6.777 | 338.5 | 475.2 | 0.982 | --- | 1.78 | 0.742 | 140.6 | 228.3 | 1.3 | 0.622 |
| 4-4030 | 4-4270 | 0.439 | 32.6 | -27.7 | -12.03 | 1.312 | 98.3 | 0.752 | 3.993 | 340.7 | 481.4 | 0.990 | --- | 1.92 | 0.671 | 136.5 | 229.5 | 1.6 | 0.542 |
| 4-4030 | 4-4290 | 0.408 | 32.2 | -31.8 | -12.26 | 1.282 | 96.9 | 0.675 | 3.064 | 342.9 | 487.6 | 0.997 | --- | 2.11 | 0.615 | 132.3 | 230.5 | 2.0 | 0.474 |
| 4-4030 | 4-4310 | 0.386 | 31.9 | -35.7 | -12.55 | 1.260 | 95.7 | 0.616 | 2.610 | 345.0 | 493.8 | 1.002 | --- | 2.35 | 0.570 | 127.8 | 231.2 | 2.5 | 0.416 |
| 4-4030 | 4-4330 | 0.372 | 31.9 | -39.4 | -12.92 | 1.243 | 94.7 | 0.572 | 2.349 | 346.9 | 499.9 | 1.005 | --- | 2.68 | 0.535 | 123.2 | 231.5 | 3.3 | 0.367 |
| 4-4030 | 4-4350 | 0.365 | 32.3 | -42.9 | -13.42 | 1.230 | 94.0 | 0.538 | 2.183 | 348.7 | 505.7 | 1.008 | --- | 3.13 | 0.508 | 118.6 | 231.4 | 4.3 | 0.325 |
| 4-4030 | 4-4370 | 0.365 | 33.5 | -46.3 | -14.14 | 1.220 | 93.4 | 0.513 | 2.072 | 350.1 | 511.4 | 1.010 | --- | 3.80 | 0.487 | 114.1 | 230.8 | 5.8 | 0.290 |
| 4-4030 | 4-4390 | 0.374 | 36.1 | -49.9 | -15.27 | 1.212 | 92.9 | 0.494 | 1.996 | 351.2 | 516.7 | 1.011 | --- | 4.89 | 0.472 | 109.7 | 229.6 | 8.4 | 0.261 |
| 4-4030 | 4-4410 | 0.401 | 41.7 | -53.9 | -17.35 | 1.207 | 92.6 | 0.479 | 1.942 | 351.9 | 521.8 | 1.011 | --- | 6.92 | 0.462 | 105.4 | 227.7 | 12.9 | 0.240 |
| 4-4030 | 4-4430 | 0.480 | 56.2 | -59.3 | -22.50 | 1.203 | 92.4 | 0.469 | 1.904 | 352.4 | 526.5 | 1.012 | --- | 12.02 | 0.455 | 101.4 | 224.2 | 23.1 | 0.237 |
| 4-4030 | 4-4450 | 0.997 | 115.9 | -56.3 | -53.16 | 1.199 | 92.3 | 0.461 | 1.878 | 352.8 | 531.0 | 1.012 | --- | 42.64 | 0.452 | 97.5 | 210.6 | 45.3 | 0.427 |
| 4-4030 | 4-4470 | 0.298 | 337.9 | 43.8 | 10.68 | 1.197 | 92.6 | 0.456 | 1.860 | 351.7 | 535.1 | 1.011 | --- | -21.25 | 0.451 | 94.1 | 216.2 | -37.8 | 0.266 |
| 4-4030 | 4-4490 | 0.221 | 4.5 | -7.1 | -1.53 | 1.196 | 92.7 | 0.453 | 1.848 | 351.2 | 539.0 | 1.011 | --- | -9.08 | 0.452 | 90.9 | 215.4 | -21.7 | 0.193 |
| 4-4030 | 4-4510 | 0.239 | 13.5 | -22.0 | -4.92 | 1.195 | 93.0 | 0.451 | 1.841 | 350.3 | 542.6 | 1.010 | 2.672 | -5.75 | 0.454 | 87.9 | 212.2 | -14.8 | 0.178 |
| 4-4030 | 4-4530 | 0.253 | 18.8 | -27.2 | -6.51 | 1.195 | 93.4 | 0.451 | 1.838 | 349.1 | 546.0 | 1.009 | 2.667 | -4.21 | 0.457 | 85.1 | 208.9 | -11.1 | 0.173 |
| 4-4030 | 4-4550 | 0.265 | 22.8 | -29.2 | -7.44 | 1.195 | 93.9 | 0.452 | 1.838 | 347.6 | 549.1 | 1.007 | 2.670 | -3.33 | 0.462 | 82.6 | 206.1 | -8.8 | 0.174 |
| 4-4030 | 4-4570 | 0.275 | 26.2 | -29.7 | -8.06 | 1.195 | 94.4 | 0.454 | 1.841 | 345.8 | 552.1 | 1.005 | 2.677 | -2.76 | 0.466 | 80.3 | 204.0 | -7.1 | 0.178 |
| 4-4030 | 4-4590 | 0.284 | 29.3 | -29.3 | -8.50 | 1.196 | 95.1 | 0.457 | 1.846 | 343.8 | 554.8 | 1.002 | 2.690 | -2.37 | 0.472 | 78.2 | 202.6 | -5.9 | 0.185 |
| 4-4030 | 4-4610 | 0.294 | 32.3 | -28.3 | -8.84 | 1.196 | 95.8 | 0.461 | 1.853 | 341.5 | 557.3 | 0.998 | 2.707 | -2.09 | 0.477 | 76.2 | 201.9 | -5.0 | 0.193 |
| 4-4030 | 4-4630 | 0.304 | 35.1 | -26.9 | -9.11 | 1.197 | 96.6 | 0.466 | 1.861 | 339.1 | 559.6 | 0.993 | 2.728 | -1.87 | 0.483 | 74.4 | 201.9 | -4.3 | 0.202 |
| 4-4030 | 4-4650 | 0.315 | 37.9 | -25.2 | -9.34 | 1.198 | 97.5 | 0.472 | 1.870 | 336.3 | 561.8 | 0.987 | 2.752 | -1.71 | 0.488 | 72.7 | 202.6 | -3.7 | 0.213 |
| 4-4030 | 4-4670 | 0.327 | 40.5 | -23.3 | -9.53 | 1.200 | 98.5 | 0.479 | 1.880 | 333.4 | 563.8 | 0.980 | 2.780 | -1.58 | 0.494 | 71.0 | 203.8 | -3.3 | 0.225 |
| 4-4030 | 4-4690 | 0.341 | 43.1 | -21.1 | -9.69 | 1.201 | 99.6 | 0.486 | 1.891 | 330.3 | 565.6 | 0.971 | 2.811 | -1.48 | 0.499 | 69.5 | 205.5 | -2.9 | 0.238 |
| 4-4030 | 4-4710 | 0.356 | 45.7 | -18.9 | -9.84 | 1.202 | 100.8 | 0.495 | 1.903 | 327.0 | 567.2 | 0.960 | 2.845 | -1.40 | 0.504 | 68.0 | 207.6 | -2.6 | 0.251 |
| 4-4030 | 4-4730 | 0.373 | 48.2 | -16.6 | -9.97 | 1.204 | 102.1 | 0.505 | 1.915 | 323.4 | 568.6 | 0.948 | 2.882 | -1.34 | 0.508 | 66.5 | 210.1 | -2.4 | 0.265 |
| 4-4040 | 4-4220 | 0.555 | 32.1 | -16.3 | -10.27 | 1.453 | 99.6 | 1.142 | -6.986 | 342.1 | 463.4 | 0.990 | --- | -0.63 | 0.915 | 146.5 | 227.3 | -0.4 | 0.802 |
| 4-4040 | 4-4240 | 0.482 | 31.0 | -20.0 | -10.21 | 1.388 | 97.7 | 0.957 | 23.092 | 344.3 | 469.6 | 0.997 | --- | -0.66 | 0.808 | 143.0 | 228.7 | -0.5 | 0.690 |
| 4-4040 | 4-4260 | 0.428 | 29.5 | -23.7 | -10.15 | 1.339 | 96.0 | 0.823 | 5.677 | 346.6 | 475.9 | 1.003 | --- | -0.69 | 0.723 | 139.2 | 230.0 | -0.6 | 0.597 |
| 4-4040 | 4-4280 | 0.387 | 27.7 | -27.4 | -10.09 | 1.302 | 94.6 | 0.725 | 3.668 | 349.1 | 482.4 | 1.008 | --- | -0.74 | 0.656 | 135.0 | 231.0 | -0.7 | 0.519 |
| 4-4040 | 4-4300 | 0.357 | 25.7 | -30.9 | -10.01 | 1.275 | 93.3 | 0.652 | 2.909 | 351.5 | 488.9 | 1.011 | --- | -0.79 | 0.602 | 130.7 | 231.8 | -0.8 | 0.454 |
| 4-4040 | 4-4320 | 0.335 | 23.6 | -33.9 | -9.92 | 1.254 | 92.3 | 0.598 | 2.521 | 353.8 | 495.3 | 1.014 | --- | -0.86 | 0.560 | 126.2 | 232.4 | -1.0 | 0.399 |
| 4-4040 | 4-4340 | 0.318 | 21.5 | -36.5 | -9.81 | 1.238 | 91.5 | 0.557 | 2.291 | 355.9 | 501.5 | 1.015 | --- | -0.95 | 0.527 | 121.6 | 232.5 | -1.2 | 0.351 |
| 4-4040 | 4-4360 | 0.305 | 19.5 | -38.5 | -9.67 | 1.226 | 90.8 | 0.526 | 2.144 | 357.6 | 507.4 | 1.016 | --- | -1.07 | 0.502 | 117.0 | 232.2 | -1.5 | 0.311 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4040 | 4-4380 | 0.295 | 17.7 | -39.8 | -9.49 | 1.216 | 90.3 | 0.503 | 2.045 | 359.0 | 513.1 | 1.016 | --- | -1.23 | 0.483 | 112.5 | 231.5 | -2.0 | 0.276 |
| 4-4040 | 4-4400 | 0.286 | 16.1 | -40.5 | -9.24 | 1.210 | 90.0 | 0.486 | 1.976 | 0.1 | 158.4 | --- | --- | -1.46 | 0.469 | 108.1 | 230.1 | -2.6 | 0.247 |
| 4-4040 | 4-4420 | 0.277 | 14.6 | -40.3 | -8.87 | 1.204 | 89.8 | 0.473 | 1.928 | 0.7 | 163.4 | --- | --- | -1.80 | 0.460 | 103.9 | 228.1 | -3.6 | 0.223 |
| 4-4040 | 4-4440 | 0.267 | 12.9 | -38.9 | -8.25 | 1.200 | 89.7 | 0.464 | 1.895 | 1.0 | 168.1 | --- | --- | -2.40 | 0.455 | 100.0 | 225.5 | -5.3 | 0.205 |
| 4-4040 | 4-4460 | 0.251 | 10.2 | -34.8 | -7.00 | 1.198 | 89.7 | 0.457 | 1.871 | 0.9 | 172.4 | --- | --- | -3.63 | 0.452 | 96.3 | 222.3 | -8.6 | 0.191 |
| 4-4040 | 4-4480 | 0.219 | 1.3 | -17.4 | -2.97 | 1.196 | 89.8 | 0.453 | 1.856 | 0.5 | 176.5 | --- | --- | -7.64 | 0.452 | 92.9 | 218.5 | -18.3 | 0.191 |
| 4-4040 | 4-4500 | 1.042 | 125.9 | -58.9 | -56.14 | 1.195 | 90.2 | 0.450 | 1.846 | 359.5 | 540.2 | 1.016 | 2.677 | 45.54 | 0.453 | 89.8 | 209.3 | 46.7 | 0.445 |
| 4-4040 | 4-4520 | 0.377 | 39.4 | -56.5 | -16.58 | 1.194 | 90.4 | 0.448 | 1.841 | 358.6 | 543.8 | 1.016 | 2.667 | 6.01 | 0.456 | 86.9 | 211.7 | 15.6 | 0.177 |
| 4-4040 | 4-4540 | 0.334 | 33.1 | -50.7 | -13.72 | 1.194 | 90.8 | 0.448 | 1.840 | 357.3 | 547.1 | 1.016 | 2.665 | 3.17 | 0.460 | 84.3 | 208.7 | 8.5 | 0.171 |
| 4-4040 | 4-4560 | 0.320 | 32.4 | -47.3 | -12.68 | 1.194 | 91.3 | 0.449 | 1.842 | 355.7 | 550.1 | 1.015 | 2.669 | 2.15 | 0.465 | 82.0 | 206.2 | 5.7 | 0.173 |
| 4-4040 | 4-4580 | 0.314 | 33.3 | -44.6 | -12.14 | 1.195 | 91.9 | 0.451 | 1.846 | 353.8 | 553.0 | 1.014 | 2.678 | 1.64 | 0.470 | 79.8 | 204.3 | 4.3 | 0.177 |
| 4-4040 | 4-4600 | 0.312 | 34.9 | -42.0 | -11.80 | 1.195 | 92.6 | 0.453 | 1.852 | 351.7 | 555.6 | 1.013 | 2.691 | 1.32 | 0.475 | 77.8 | 203.2 | 3.3 | 0.184 |
| 4-4040 | 4-4620 | 0.312 | 36.9 | -39.4 | -11.57 | 1.196 | 93.4 | 0.457 | 1.859 | 349.3 | 558.1 | 1.010 | 2.708 | 1.12 | 0.481 | 76.0 | 202.8 | 2.7 | 0.193 |
| 4-4040 | 4-4640 | 0.315 | 39.2 | -36.7 | -11.40 | 1.197 | 94.2 | 0.461 | 1.868 | 346.7 | 560.3 | 1.007 | 2.729 | 0.97 | 0.486 | 74.3 | 203.1 | 2.3 | 0.202 |
| 4-4040 | 4-4660 | 0.319 | 41.6 | -34.0 | -11.27 | 1.199 | 95.1 | 0.466 | 1.878 | 343.9 | 562.4 | 1.003 | 2.753 | 0.86 | 0.492 | 72.7 | 204.0 | 1.9 | 0.212 |
| 4-4040 | 4-4680 | 0.325 | 44.1 | -31.1 | -11.16 | 1.200 | 96.1 | 0.472 | 1.889 | 341.0 | 564.4 | 0.998 | 2.780 | 0.78 | 0.497 | 71.2 | 205.4 | 1.6 | 0.224 |
| 4-4040 | 4-4700 | 0.333 | 46.6 | -28.2 | -11.07 | 1.201 | 97.1 | 0.478 | 1.901 | 337.8 | 566.1 | 0.991 | 2.810 | 0.72 | 0.502 | 69.7 | 207.2 | 1.4 | 0.235 |
| 4-4040 | 4-4720 | 0.343 | 49.2 | -25.2 | -10.99 | 1.203 | 98.3 | 0.486 | 1.913 | 334.4 | 567.7 | 0.983 | 2.843 | 0.67 | 0.507 | 68.4 | 209.5 | 1.3 | 0.248 |
| 4-4040 | 4-4740 | 0.354 | 51.7 | -22.1 | -10.93 | 1.204 | 99.5 | 0.495 | 1.926 | 330.9 | 569.2 | 0.973 | 2.878 | 0.63 | 0.512 | 67.0 | 212.0 | 1.1 | 0.261 |
| 4-4050 | 4-4210 | 0.591 | 30.7 | -14.2 | -9.53 | 1.518 | 96.8 | 1.339 | -2.959 | 348.1 | 458.1 | 1.004 | --- | -2.42 | 1.015 | 148.5 | 227.6 | -1.4 | 0.902 |
| 4-4050 | 4-4230 | 0.502 | 29.0 | -17.7 | -9.35 | 1.434 | 95.0 | 1.089 | 11.372 | 350.3 | 464.2 | 1.009 | --- | -2.49 | 0.885 | 145.3 | 228.9 | -1.6 | 0.708 |
| 4-4050 | 4-4250 | 0.436 | 26.7 | -21.3 | -9.16 | 1.372 | 93.4 | 0.914 | 11.738 | 352.9 | 470.7 | 1.013 | --- | -2.58 | 0.783 | 141.6 | 230.2 | -1.9 | 0.660 |
| 4-4050 | 4-4270 | 0.388 | 23.8 | -24.8 | -8.95 | 1.326 | 92.0 | 0.788 | 4.795 | 355.6 | 477.5 | 1.015 | --- | -2.68 | 0.702 | 137.7 | 231.2 | -2.2 | 0.571 |
| 4-4050 | 4-4290 | 0.353 | 20.5 | -28.0 | -8.71 | 1.292 | 90.7 | 0.697 | 3.355 | 358.3 | 484.2 | 1.016 | --- | -2.81 | 0.638 | 133.5 | 232.1 | -2.6 | 0.497 |
| 4-4050 | 4-4310 | 0.327 | 17.0 | -30.7 | -8.45 | 1.266 | 89.6 | 0.630 | 2.748 | 1.0 | 131.0 | --- | --- | -2.97 | 0.587 | 129.0 | 232.7 | -3.1 | 0.434 |
| 4-4050 | 4-4330 | 0.308 | 13.5 | -32.8 | -8.15 | 1.247 | 88.8 | 0.581 | 2.423 | 3.4 | 137.5 | --- | --- | -3.17 | 0.547 | 124.4 | 232.9 | -3.8 | 0.381 |
| 4-4050 | 4-4350 | 0.292 | 10.1 | -34.1 | -7.81 | 1.232 | 88.1 | 0.544 | 2.225 | 5.5 | 143.8 | --- | --- | -3.42 | 0.516 | 119.8 | 232.8 | -4.6 | 0.336 |
| 4-4050 | 4-4370 | 0.280 | 6.9 | -34.6 | -7.39 | 1.221 | 87.5 | 0.517 | 2.097 | 7.3 | 149.8 | --- | --- | -3.74 | 0.493 | 115.2 | 232.2 | -5.6 | 0.298 |
| 4-4050 | 4-4390 | 0.269 | 4.0 | -34.3 | -6.89 | 1.213 | 87.1 | 0.496 | 2.011 | 8.7 | 155.4 | --- | --- | -4.15 | 0.476 | 110.6 | 231.1 | -7.0 | 0.267 |
| 4-4050 | 4-4410 | 0.258 | 1.4 | -32.9 | -6.24 | 1.206 | 86.9 | 0.481 | 1.951 | 9.6 | 160.6 | --- | --- | -4.71 | 0.465 | 106.3 | 229.3 | -8.7 | 0.241 |
| 4-4050 | 4-4430 | 0.248 | 358.8 | -30.2 | -5.39 | 1.202 | 86.8 | 0.470 | 1.909 | 10.1 | 165.5 | --- | --- | -5.47 | 0.457 | 102.2 | 226.9 | -11.2 | 0.220 |
| 4-4050 | 4-4450 | 0.236 | 356.1 | -25.4 | -4.17 | 1.198 | 86.8 | 0.462 | 1.881 | 10.3 | 170.1 | --- | --- | -6.60 | 0.453 | 98.3 | 224.0 | -14.5 | 0.206 |
| 4-4050 | 4-4470 | 0.224 | 352.4 | -16.7 | -2.29 | 1.196 | 86.8 | 0.456 | 1.861 | 10.1 | 174.3 | --- | --- | -8.39 | 0.451 | 94.8 | 220.5 | -19.2 | 0.199 |
| 4-4050 | 4-4490 | 0.218 | 346.1 | 0.3 | 1.05 | 1.194 | 87.0 | 0.453 | 1.849 | 9.6 | 178.2 | --- | --- | -11.63 | 0.452 | 91.5 | 216.6 | -26.3 | 0.205 |
| 4-4050 | 4-4510 | 0.271 | 330.6 | 33.0 | 8.66 | 1.194 | 87.3 | 0.450 | 1.842 | 8.8 | 181.9 | --- | 2.671 | -19.16 | 0.454 | 88.5 | 212.6 | -37.4 | 0.245 |
| 4-4050 | 4-4530 | 0.753 | 261.3 | 62.1 | 38.91 | 1.193 | 87.4 | 0.449 | 1.839 | 8.3 | 185.3 | --- | 2.665 | -49.31 | 0.458 | 85.7 | 209.4 | -46.6 | 0.476 |
| 4-4050 | 4-4550 | 0.947 | 124.0 | -65.2 | -50.46 | 1.193 | 88.6 | 0.448 | 1.840 | 4.7 | 188.2 | --- | 2.664 | 40.15 | 0.462 | 83.5 | 210.2 | 46.9 | 0.406 |
| 4-4050 | 4-4570 | 0.554 | 69.2 | -66.8 | -27.35 | 1.194 | 88.9 | 0.449 | 1.843 | 3.4 | 191.2 | --- | 2.670 | 17.14 | 0.467 | 81.2 | 207.2 | 35.1 | 0.236 |
| 4-4050 | 4-4590 | 0.445 | 51.7 | -61.1 | -20.81 | 1.194 | 89.5 | 0.450 | 1.848 | 1.6 | 193.9 | --- | 2.680 | 10.69 | 0.472 | 79.1 | 205.2 | 24.8 | 0.205 |
| 4-4050 | 4-4610 | 0.397 | 45.9 | -56.1 | -17.79 | 1.195 | 90.2 | 0.452 | 1.856 | 359.4 | 556.5 | 1.017 | 2.695 | 7.76 | 0.478 | 77.2 | 204.2 | 18.3 | 0.200 |
| 4-4050 | 4-4630 | 0.370 | 44.3 | -51.7 | -16.04 | 1.196 | 90.9 | 0.455 | 1.864 | 357.0 | 558.9 | 1.016 | 2.712 | 6.11 | 0.484 | 75.5 | 204.0 | 14.2 | 0.203 |
| 4-4050 | 4-4650 | 0.355 | 44.5 | -47.7 | -14.89 | 1.197 | 91.8 | 0.458 | 1.874 | 354.3 | 561.1 | 1.015 | 2.733 | 5.06 | 0.489 | 73.9 | 204.4 | 11.4 | 0.209 |
| 4-4050 | 4-4670 | 0.346 | 45.7 | -43.8 | -14.06 | 1.199 | 92.7 | 0.463 | 1.885 | 351.5 | 563.1 | 1.013 | 2.757 | 4.34 | 0.495 | 72.5 | 205.5 | 9.5 | 0.218 |
| 4-4050 | 4-4690 | 0.342 | 47.5 | -40.0 | -13.44 | 1.200 | 93.7 | 0.468 | 1.897 | 348.4 | 565.0 | 1.010 | 2.783 | 3.82 | 0.500 | 71.1 | 207.0 | 8.0 | 0.227 |
| 4-4050 | 4-4710 | 0.340 | 49.7 | -36.3 | -12.94 | 1.202 | 94.7 | 0.473 | 1.909 | 345.2 | 566.7 | 1.006 | 2.812 | 3.44 | 0.505 | 69.8 | 209.0 | 6.9 | 0.238 |
| 4-4050 | 4-4730 | 0.342 | 52.1 | -32.5 | -12.53 | 1.203 | 95.9 | 0.480 | 1.922 | 341.8 | 568.3 | 1.000 | 2.844 | 3.14 | 0.510 | 68.5 | 211.3 | 6.0 | 0.249 |
| 4-4050 | 4-4750 | 0.347 | 54.6 | -28.8 | -12.18 | 1.205 | 97.1 | 0.487 | 1.936 | 338.3 | 569.7 | 0.993 | 2.879 | 2.91 | 0.515 | 67.3 | 214.0 | 5.3 | 0.260 |
| 4-4060 | 4-4220 | 0.544 | 26.6 | -16.2 | -8.97 | 1.492 | 91.8 | 1.262 | -3.873 | 356.7 | 459.3 | 1.016 | --- | -4.05 | 0.975 | 147.4 | 229.0 | -2.5 | 0.860 |
| 4-4060 | 4-4240 | 0.465 | 23.5 | -19.7 | -8.68 | 1.413 | 90.3 | 1.029 | 35.338 | 359.4 | 465.9 | 1.017 | --- | -4.12 | 0.851 | 144.0 | 230.1 | -2.8 | 0.732 |
| 4-4060 | 4-4260 | 0.409 | 19.7 | -23.0 | -8.37 | 1.355 | 88.9 | 0.867 | 7.636 | 2.4 | 112.8 | --- | --- | -4.22 | 0.754 | 140.3 | 231.2 | -3.2 | 0.629 |
| 4-4060 | 4-4280 | 0.369 | 15.5 | -26.0 | -8.05 | 1.313 | 87.7 | 0.752 | 4.093 | 5.4 | 119.9 | --- | --- | -4.34 | 0.677 | 136.2 | 232.0 | -3.7 | 0.544 |
| 4-4060 | 4-4300 | 0.340 | 11.0 | -28.4 | -7.70 | 1.281 | 86.6 | 0.670 | 3.064 | 8.5 | 127.0 | --- | --- | -4.50 | 0.617 | 131.9 | 232.6 | -4.4 | 0.473 |
| 4-4060 | 4-4320 | 0.319 | 6.6 | -30.1 | -7.32 | 1.257 | 85.7 | 0.610 | 2.587 | 11.3 | 133.9 | --- | --- | -4.69 | 0.569 | 127.3 | 232.9 | -5.1 | 0.414 |
| 4-4060 | 4-4340 | 0.304 | 2.5 | -31.0 | -6.89 | 1.239 | 85.0 | 0.566 | 2.320 | 13.8 | 140.6 | --- | --- | -4.94 | 0.532 | 122.6 | 232.9 | -6.1 | 0.364 |
| 4-4060 | 4-4360 | 0.292 | 358.7 | -31.2 | -6.42 | 1.226 | 84.5 | 0.534 | 2.154 | 15.9 | 146.9 | --- | --- | -5.23 | 0.504 | 117.9 | 232.4 | -7.3 | 0.322 |
| 4-4060 | 4-4380 | 0.282 | 355.4 | -30.5 | -5.87 | 1.216 | 84.1 | 0.511 | 2.046 | 17.6 | 152.8 | --- | --- | -5.61 | 0.483 | 113.2 | 231.4 | -8.7 | 0.287 |
| 4-4060 | 4-4400 | 0.273 | 352.6 | -29.1 | -5.23 | 1.208 | 83.8 | 0.494 | 1.972 | 18.8 | 158.2 | --- | --- | -6.08 | 0.468 | 108.7 | 229.8 | -10.5 | 0.258 |
| 4-4060 | 4-4420 | 0.264 | 350.2 | -26.7 | -4.45 | 1.203 | 83.7 | 0.481 | 1.921 | 19.6 | 163.3 | --- | --- | -6.69 | 0.458 | 104.3 | 227.7 | -12.7 | 0.235 |
| 4-4060 | 4-4440 | 0.255 | 348.0 | -23.1 | -3.49 | 1.199 | 83.6 | 0.471 | 1.886 | 20.0 | 168.0 | --- | --- | -7.49 | 0.452 | 100.3 | 224.9 | -15.4 | 0.218 |
| 4-4060 | 4-4460 | 0.247 | 345.8 | -17.8 | -2.24 | 1.196 | 83.7 | 0.464 | 1.863 | 19.9 | 172.4 | --- | --- | -8.57 | 0.449 | 96.5 | 221.7 | -18.7 | 0.207 |
| 4-4060 | 4-4480 | 0.241 | 343.2 | -10.0 | -0.53 | 1.194 | 83.9 | 0.460 | 1.847 | 19.5 | 176.4 | --- | --- | -10.11 | 0.449 | 93.1 | 218.2 | -22.8 | 0.203 |
| 4-4060 | 4-4500 | 0.240 | 339.4 | 1.8 | 1.95 | 1.193 | 84.1 | 0.456 | 1.838 | 18.8 | 180.1 | --- | 2.677 | -12.44 | 0.451 | 89.9 | 214.6 | -27.8 | 0.208 |
| 4-4060 | 4-4520 | 0.260 | 332.6 | 19.3 | 5.98 | 1.192 | 84.5 | 0.454 | 1.834 | 17.8 | 183.6 | --- | 2.667 | -16.30 | 0.454 | 87.0 | 211.4 | -34.0 | 0.228 |
| 4-4060 | 4-4540 | 0.345 | 317.7 | 41.7 | 13.59 | 1.192 | 84.8 | 0.453 | 1.834 | 16.7 | 186.9 | --- | 2.664 | -23.76 | 0.458 | 84.4 | 209.3 | -41.3 | 0.278 |
| 4-4060 | 4-4560 | 0.644 | 277.1 | 57.8 | 32.34 | 1.193 | 85.1 | 0.453 | 1.837 | 15.8 | 189.9 | --- | 2.668 | -42.34 | 0.463 | 82.0 | 210.0 | -46.6 | 0.425 |
| 4-4060 | 4-4600 | 0.895 | 120.7 | -69.9 | -47.25 | 1.194 | 87.4 | 0.452 | 1.849 | 8.4 | 194.9 | --- | 2.684 | 37.58 | 0.474 | 78.3 | 211.6 | 45.9 | 0.394 |
| 4-4060 | 4-4620 | 0.623 | 77.9 | -69.3 | -31.27 | 1.195 | 87.9 | 0.454 | 1.857 | 6.7 | 197.4 | --- | 2.700 | 21.77 | 0.480 | 76.5 | 207.8 | 38.2 | 0.280 |
| 4-4060 | 4-4640 | 0.507 | 60.4 | -64.1 | -24.46 | 1.196 | 88.6 | 0.456 | 1.867 | 4.4 | 199.7 | --- | 2.719 | 15.12 | 0.486 | 74.9 | 206.5 | 30.0 | 0.245 |
| 4-4060 | 4-4660 | 0.446 | 53.8 | -58.9 | -20.75 | 1.198 | 89.4 | 0.459 | 1.878 | 1.8 | 201.9 | --- | 2.740 | 11.58 | 0.492 | 73.4 | 206.5 | 23.8 | 0.235 |
| 4-4060 | 4-4680 | 0.409 | 51.6 | -54.1 | -18.41 | 1.199 | 90.3 | 0.462 | 1.890 | 358.9 | 563.8 | 1.017 | 2.764 | 9.42 | 0.498 | 72.1 | 207.4 | 19.3 | 0.235 |
| 4-4060 | 4-4700 | 0.385 | 51.5 | -49.5 | -16.78 | 1.201 | 91.3 | 0.466 | 1.903 | 355.8 | 565.6 | 1.016 | 2.790 | 7.97 | 0.503 | 70.8 | 209.0 | 16.0 | 0.239 |
| 4-4060 | 4-4720 | 0.370 | 52.6 | -45.0 | -15.57 | 1.202 | 92.4 | 0.471 | 1.916 | 352.6 | 567.3 | 1.014 | 2.818 | 6.95 | 0.508 | 69.6 | 210.9 | 13.5 | 0.246 |
| 4-4060 | 4-4740 | 0.360 | 54.5 | -40.6 | -14.63 | 1.204 | 93.5 | 0.476 | 1.930 | 349.2 | 568.8 | 1.011 | 2.849 | 6.20 | 0.513 | 68.5 | 213.3 | 11.7 | 0.255 |
| 4-4060 | 4-4760 | 0.355 | 56.7 | -36.3 | -13.86 | 1.205 | 94.7 | 0.482 | 1.944 | 345.6 | 570.2 | 1.006 | 2.882 | 5.63 | 0.517 | 67.4 | 216.0 | 10.2 | 0.265 |
| 4-4070 | 4-4210 | 0.616 | 23.8 | -15.2 | -8.95 | 1.567 | 87.9 | 1.494 | -2.053 | 3.6 | 94.8 | --- | --- | -5.53 | 1.086 | 149.5 | 228.9 | -3.1 | 0.973 |
| 4-4070 | 4-4230 | 0.518 | 20.2 | -18.5 | -8.58 | 1.464 | 86.6 | 1.177 | -5.729 | 6.4 | 101.5 | --- | --- | -5.55 | 0.932 | 146.4 | 229.9 | -3.5 | 0.818 |
| 4-4070 | 4-4250 | 0.451 | 15.8 | -21.6 | -8.19 | 1.390 | 85.3 | 0.965 | 28.787 | 9.6 | 108.6 | --- | --- | -5.59 | 0.814 | 142.9 | 230.9 | -3.9 | 0.696 |
| 4-4070 | 4-4270 | 0.404 | 10.9 | -24.3 | -7.79 | 1.337 | 84.2 | 0.819 | 5.560 | 13.0 | 116.0 | --- | --- | -5.67 | 0.722 | 139.0 | 231.7 | -4.5 | 0.597 |
| 4-4070 | 4-4290 | 0.373 | 5.9 | -26.4 | -7.37 | 1.298 | 83.2 | 0.717 | 3.536 | 16.4 | 123.4 | --- | --- | -5.78 | 0.650 | 134.7 | 232.3 | -5.2 | 0.517 |
| 4-4070 | 4-4310 | 0.351 | 1.0 | -27.7 | -6.93 | 1.269 | 82.3 | 0.645 | 2.800 | 19.6 | 130.7 | --- | --- | -5.92 | 0.593 | 130.2 | 232.6 | -6.0 | 0.450 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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ARRIVAL PLANET= CERES

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ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4070 | 4-4330 | 0.335 | 356.6 | -28.3 | -6.46 | 1.247 | 81.6 | 0.594 | 2.431 | 22.6 | 137.8 | --- | --- | -6.11 | 0.548 | 125.5 | 232.5 | -6.9 | 0.394 |
| 4-4070 | 4-4350 | 0.323 | 352.8 | -28.2 | -5.95 | 1.231 | 81.1 | 0.557 | 2.215 | 25.1 | 144.4 | --- | --- | -6.34 | 0.514 | 120.6 | 232.1 | -8.1 | 0.347 |
| 4-4070 | 4-4370 | 0.314 | 349.6 | -27.5 | -5.39 | 1.219 | 80.7 | 0.530 | 2.080 | 27.0 | 150.6 | --- | --- | -6.63 | 0.489 | 115.8 | 231.2 | -9.5 | 0.308 |
| 4-4070 | 4-4390 | 0.306 | 346.9 | -26.2 | -4.77 | 1.210 | 80.5 | 0.510 | 1.990 | 28.5 | 156.3 | --- | --- | -6.99 | 0.471 | 111.1 | 229.7 | -11.2 | 0.276 |
| 4-4070 | 4-4410 | 0.299 | 344.8 | -24.3 | -4.07 | 1.204 | 80.3 | 0.496 | 1.929 | 29.5 | 161.5 | --- | --- | -7.45 | 0.458 | 106.5 | 227.7 | -13.2 | 0.250 |
| 4-4070 | 4-4430 | 0.292 | 343.0 | -21.6 | -3.25 | 1.199 | 80.3 | 0.485 | 1.887 | 30.0 | 166.4 | --- | --- | -8.02 | 0.450 | 102.2 | 225.2 | -15.5 | 0.230 |
| 4-4070 | 4-4450 | 0.285 | 341.5 | -18.1 | -2.28 | 1.196 | 80.4 | 0.477 | 1.859 | 30.1 | 170.8 | --- | --- | -8.75 | 0.446 | 98.2 | 222.2 | -18.1 | 0.216 |
| 4-4070 | 4-4470 | 0.278 | 340.0 | -13.4 | -1.09 | 1.194 | 80.6 | 0.471 | 1.841 | 29.8 | 174.9 | --- | --- | -9.69 | 0.445 | 94.5 | 218.8 | -21.0 | 0.208 |
| 4-4070 | 4-4490 | 0.273 | 338.3 | -7.2 | 0.41 | 1.192 | 80.8 | 0.467 | 1.830 | 29.1 | 178.7 | --- | --- | -10.96 | 0.446 | 91.2 | 215.4 | -24.3 | 0.206 |
| 4-4070 | 4-4510 | 0.272 | 336.0 | 1.2 | 2.39 | 1.191 | 81.2 | 0.464 | 1.825 | 28.1 | 182.2 | --- | 2.671 | -12.70 | 0.449 | 88.1 | 212.2 | -27.9 | 0.211 |
| 4-4070 | 4-4530 | 0.281 | 332.4 | 12.4 | 5.15 | 1.191 | 81.6 | 0.462 | 1.824 | 26.9 | 185.4 | --- | 2.666 | -15.24 | 0.453 | 85.4 | 209.5 | -32.0 | 0.223 |
| 4-4070 | 4-4550 | 0.313 | 325.9 | 26.8 | 9.34 | 1.192 | 82.0 | 0.460 | 1.826 | 25.5 | 188.5 | --- | 2.667 | -19.19 | 0.458 | 82.9 | 207.8 | -36.7 | 0.249 |
| 4-4070 | 4-4570 | 0.399 | 312.7 | 42.6 | 16.40 | 1.192 | 82.5 | 0.460 | 1.831 | 24.0 | 191.4 | --- | 2.673 | -26.02 | 0.463 | 80.6 | 207.7 | -41.9 | 0.300 |
| 4-4070 | 4-4590 | 0.618 | 284.6 | 53.8 | 30.37 | 1.193 | 82.9 | 0.460 | 1.838 | 22.7 | 194.1 | --- | 2.684 | -39.76 | 0.469 | 78.6 | 210.6 | -45.7 | 0.411 |
| 4-4070 | 4-4630 | 1.276 | 161.4 | -64.6 | -70.89 | 1.195 | 86.3 | 0.456 | 1.857 | 11.9 | 198.1 | --- | 2.704 | 61.97 | 0.482 | 75.9 | 220.2 | 43.9 | 0.595 |
| 4-4070 | 4-4650 | 0.844 | 111.5 | -73.4 | -44.09 | 1.197 | 86.6 | 0.459 | 1.868 | 10.9 | 200.5 | --- | 2.726 | 35.40 | 0.488 | 74.2 | 214.5 | 44.2 | 0.390 |
| 4-4070 | 4-4670 | 0.641 | 76.7 | -70.1 | -32.16 | 1.198 | 87.2 | 0.461 | 1.881 | 8.8 | 202.6 | --- | 2.749 | 23.71 | 0.494 | 72.8 | 211.5 | 37.7 | 0.310 |
| 4-4070 | 4-4690 | 0.534 | 63.0 | -64.5 | -25.90 | 1.200 | 88.1 | 0.464 | 1.894 | 6.0 | 204.5 | --- | 2.773 | 17.69 | 0.500 | 71.6 | 211.0 | 31.1 | 0.279 |
| 4-4070 | 4-4710 | 0.470 | 57.9 | -59.1 | -22.09 | 1.201 | 89.0 | 0.467 | 1.908 | 3.0 | 206.3 | --- | 2.799 | 14.12 | 0.505 | 70.4 | 211.8 | 25.7 | 0.268 |
| 4-4070 | 4-4730 | 0.429 | 56.4 | -53.9 | -19.51 | 1.203 | 90.1 | 0.471 | 1.922 | 359.8 | 567.9 | 1.017 | 2.827 | 11.80 | 0.510 | 69.3 | 213.5 | 21.5 | 0.266 |
| 4-4070 | 4-4750 | 0.401 | 56.9 | -48.9 | -17.64 | 1.205 | 91.2 | 0.475 | 1.937 | 356.4 | 569.4 | 1.016 | 2.858 | 10.19 | 0.515 | 68.3 | 215.7 | 18.3 | 0.269 |
| 4-4070 | 4-4770 | 0.381 | 58.4 | -44.1 | -16.20 | 1.206 | 92.3 | 0.481 | 1.952 | 352.8 | 570.7 | 1.014 | 2.890 | 9.01 | 0.519 | 67.3 | 218.4 | 15.8 | 0.275 |
| 4-4080 | 4-4220 | 0.604 | 17.1 | -17.3 | -8.81 | 1.530 | 82.0 | 1.371 | -2.696 | 13.8 | 97.5 | --- | --- | -6.99 | 1.032 | 148.9 | 229.5 | -4.0 | 0.923 |
| 4-4080 | 4-4240 | 0.519 | 12.3 | -20.1 | -8.33 | 1.434 | 81.0 | 1.088 | 11.294 | 17.2 | 104.9 | --- | --- | -6.95 | 0.886 | 145.6 | 230.4 | -4.5 | 0.775 |
| 4-4080 | 4-4260 | 0.463 | 7.2 | -22.5 | -7.84 | 1.367 | 80.1 | 0.901 | 9.966 | 21.0 | 112.6 | --- | --- | -6.95 | 0.774 | 141.8 | 231.1 | -5.0 | 0.659 |
| 4-4080 | 4-4280 | 0.426 | 2.0 | -24.2 | -7.36 | 1.318 | 79.2 | 0.775 | 4.328 | 24.8 | 120.4 | --- | --- | -6.98 | 0.687 | 137.7 | 231.6 | -5.7 | 0.566 |
| 4-4080 | 4-4300 | 0.401 | 357.1 | -25.3 | -6.86 | 1.283 | 78.4 | 0.688 | 3.091 | 28.5 | 128.1 | --- | --- | -7.05 | 0.619 | 133.2 | 231.9 | -6.5 | 0.490 |
| 4-4080 | 4-4320 | 0.384 | 352.8 | -25.7 | -6.34 | 1.257 | 77.8 | 0.627 | 2.564 | 31.8 | 135.5 | --- | --- | -7.15 | 0.566 | 128.5 | 231.8 | -7.4 | 0.427 |
| 4-4080 | 4-4340 | 0.372 | 349.2 | -25.5 | -5.80 | 1.237 | 77.3 | 0.584 | 2.282 | 34.7 | 142.5 | --- | --- | -7.30 | 0.525 | 123.5 | 231.4 | -8.5 | 0.374 |
| 4-4080 | 4-4360 | 0.363 | 346.3 | -24.8 | -5.22 | 1.223 | 77.0 | 0.554 | 2.112 | 37.0 | 148.9 | --- | --- | -7.49 | 0.495 | 118.5 | 230.5 | -9.9 | 0.331 |
| 4-4080 | 4-4380 | 0.355 | 343.9 | -23.7 | -4.61 | 1.212 | 76.8 | 0.532 | 2.004 | 38.7 | 154.8 | --- | --- | -7.74 | 0.472 | 113.6 | 229.1 | -11.4 | 0.295 |
| 4-4080 | 4-4400 | 0.348 | 342.1 | -22.1 | -3.94 | 1.205 | 76.7 | 0.516 | 1.931 | 39.8 | 160.2 | --- | --- | -8.06 | 0.457 | 108.7 | 227.2 | -13.1 | 0.267 |
| 4-4080 | 4-4420 | 0.341 | 340.6 | -20.1 | -3.20 | 1.199 | 76.7 | 0.504 | 1.883 | 40.4 | 165.1 | --- | --- | -8.46 | 0.446 | 104.2 | 224.8 | -15.1 | 0.244 |
| 4-4080 | 4-4440 | 0.334 | 339.5 | -17.6 | -2.37 | 1.195 | 76.8 | 0.495 | 1.851 | 40.6 | 169.6 | --- | --- | -8.95 | 0.441 | 99.9 | 221.9 | -17.3 | 0.227 |
| 4-4080 | 4-4460 | 0.327 | 338.5 | -14.5 | -1.42 | 1.193 | 77.0 | 0.488 | 1.829 | 40.3 | 173.7 | --- | --- | -9.58 | 0.438 | 95.9 | 218.7 | -19.6 | 0.216 |
| 4-4080 | 4-4480 | 0.321 | 337.6 | -10.6 | -0.31 | 1.191 | 77.3 | 0.483 | 1.817 | 39.7 | 177.5 | --- | --- | -10.37 | 0.439 | 92.3 | 215.4 | -22.1 | 0.210 |
| 4-4080 | 4-4500 | 0.316 | 336.6 | -5.7 | 1.02 | 1.190 | 77.7 | 0.479 | 1.810 | 38.8 | 181.0 | --- | 2.677 | -11.40 | 0.441 | 89.1 | 212.2 | -24.6 | 0.209 |
| 4-4080 | 4-4520 | 0.313 | 335.3 | 0.5 | 2.67 | 1.190 | 78.1 | 0.476 | 1.809 | 37.5 | 184.3 | --- | 2.669 | -12.74 | 0.445 | 86.1 | 209.5 | -27.3 | 0.214 |
| 4-4080 | 4-4540 | 0.315 | 333.2 | 8.3 | 4.80 | 1.190 | 78.6 | 0.474 | 1.811 | 36.1 | 187.3 | --- | 2.668 | -14.56 | 0.450 | 83.5 | 207.3 | -30.2 | 0.224 |
| 4-4080 | 4-4560 | 0.328 | 329.8 | 18.1 | 7.66 | 1.191 | 79.1 | 0.472 | 1.816 | 34.4 | 190.1 | --- | 2.672 | -17.13 | 0.456 | 81.2 | 206.1 | -33.4 | 0.241 |
| 4-4080 | 4-4580 | 0.363 | 323.7 | 29.7 | 11.78 | 1.192 | 79.7 | 0.471 | 1.823 | 32.6 | 192.8 | --- | 2.681 | -20.95 | 0.462 | 79.1 | 206.0 | -37.1 | 0.269 |
| 4-4080 | 4-4600 | 0.442 | 312.3 | 41.9 | 18.22 | 1.193 | 80.3 | 0.470 | 1.832 | 30.7 | 195.3 | --- | 2.694 | -27.09 | 0.469 | 77.2 | 207.5 | -41.1 | 0.317 |
| 4-4080 | 4-4620 | 0.613 | 291.0 | 50.6 | 29.44 | 1.194 | 80.8 | 0.471 | 1.843 | 29.0 | 197.7 | --- | 2.710 | -38.03 | 0.476 | 75.4 | 211.6 | -44.4 | 0.405 |
| 4-4080 | 4-4640 | 0.972 | 260.4 | 48.6 | 51.24 | 1.196 | 81.1 | 0.473 | 1.855 | 28.1 | 200.0 | --- | 2.732 | -59.53 | 0.482 | 73.7 | 219.6 | -43.6 | 0.579 |
| 4-4080 | 4-4680 | 1.086 | 148.8 | -74.1 | -58.55 | 1.199 | 85.5 | 0.465 | 1.881 | 14.2 | 203.2 | --- | 2.757 | 50.86 | 0.495 | 72.2 | 223.7 | 44.6 | 0.521 |
| 4-4080 | 4-4700 | 0.792 | 95.5 | -74.9 | -40.82 | 1.201 | 86.0 | 0.468 | 1.896 | 12.5 | 205.1 | --- | 2.783 | 33.44 | 0.501 | 71.0 | 218.9 | 41.9 | 0.391 |
| 4-4080 | 4-4720 | 0.632 | 71.5 | -69.2 | -31.46 | 1.202 | 86.9 | 0.471 | 1.911 | 9.8 | 206.9 | --- | 2.810 | 24.38 | 0.507 | 69.9 | 217.1 | 36.2 | 0.332 |
| 4-4080 | 4-4740 | 0.537 | 63.0 | -63.1 | -25.89 | 1.204 | 87.8 | 0.474 | 1.926 | 6.8 | 208.4 | --- | 2.839 | 19.12 | 0.512 | 68.9 | 217.5 | 30.6 | 0.307 |
| 4-4080 | 4-4760 | 0.475 | 60.2 | -57.4 | -22.22 | 1.206 | 88.9 | 0.477 | 1.942 | 3.4 | 209.9 | --- | 2.869 | 15.76 | 0.517 | 67.9 | 219.0 | 26.0 | 0.297 |
| 4-4080 | 4-4780 | 0.433 | 60.1 | -52.0 | -19.61 | 1.208 | 90.0 | 0.481 | 1.958 | 359.9 | 571.2 | 1.016 | 2.900 | 13.47 | 0.521 | 67.0 | 221.3 | 22.3 | 0.295 |
| 4-4090 | 4-4230 | 0.621 | 9.8 | -18.6 | -8.80 | 1.492 | 75.9 | 1.245 | -3.920 | 25.5 | 101.7 | --- | --- | -8.43 | 0.975 | 148.5 | 229.6 | -4.9 | 0.874 |
| 4-4090 | 4-4250 | 0.549 | 4.6 | -20.6 | -8.21 | 1.405 | 75.2 | 1.002 | 49.699 | 29.6 | 109.7 | --- | --- | -8.31 | 0.836 | 144.9 | 230.2 | -5.4 | 0.734 |
| 4-4090 | 4-4270 | 0.502 | 359.6 | -22.1 | -7.63 | 1.343 | 74.6 | 0.844 | 5.982 | 33.8 | 117.9 | --- | --- | -8.23 | 0.731 | 140.9 | 230.6 | -6.1 | 0.624 |
| 4-4090 | 4-4290 | 0.472 | 355.0 | -22.9 | -7.05 | 1.299 | 74.0 | 0.738 | 3.525 | 38.0 | 126.1 | --- | --- | -8.19 | 0.649 | 136.5 | 230.8 | -6.8 | 0.536 |
| 4-4090 | 4-4310 | 0.451 | 351.0 | -23.2 | -6.47 | 1.267 | 73.5 | 0.667 | 2.734 | 41.7 | 133.9 | --- | --- | -8.19 | 0.585 | 131.8 | 230.7 | -7.7 | 0.464 |
| 4-4090 | 4-4330 | 0.437 | 347.7 | -22.9 | -5.88 | 1.244 | 73.1 | 0.618 | 2.357 | 44.9 | 141.1 | --- | --- | -8.23 | 0.537 | 126.7 | 230.2 | -8.7 | 0.405 |
| 4-4090 | 4-4350 | 0.426 | 345.0 | -22.3 | -5.27 | 1.227 | 72.9 | 0.583 | 2.144 | 47.5 | 147.8 | --- | --- | -8.32 | 0.500 | 121.5 | 229.3 | -9.9 | 0.357 |
| 4-4090 | 4-4370 | 0.417 | 343.0 | -21.3 | -4.64 | 1.214 | 72.7 | 0.559 | 2.013 | 49.4 | 153.8 | --- | --- | -8.45 | 0.472 | 116.3 | 228.0 | -11.3 | 0.317 |
| 4-4090 | 4-4390 | 0.409 | 341.4 | -20.1 | -3.98 | 1.205 | 72.7 | 0.541 | 1.928 | 50.6 | 159.3 | --- | --- | -8.64 | 0.453 | 111.2 | 226.1 | -12.9 | 0.285 |
| 4-4090 | 4-4410 | 0.401 | 340.2 | -18.5 | -3.28 | 1.199 | 72.8 | 0.528 | 1.872 | 51.3 | 164.3 | --- | --- | -8.89 | 0.441 | 106.2 | 223.7 | -14.6 | 0.260 |
| 4-4090 | 4-4430 | 0.394 | 339.4 | -16.6 | -2.52 | 1.194 | 72.9 | 0.518 | 1.835 | 51.5 | 168.8 | --- | --- | -9.21 | 0.433 | 101.6 | 221.0 | -16.4 | 0.240 |
| 4-4090 | 4-4450 | 0.386 | 338.7 | -14.3 | -1.69 | 1.191 | 73.2 | 0.511 | 1.811 | 51.2 | 172.9 | --- | --- | -9.62 | 0.430 | 97.3 | 217.9 | -18.3 | 0.227 |
| 4-4090 | 4-4470 | 0.379 | 338.2 | -11.7 | -0.77 | 1.190 | 73.5 | 0.505 | 1.797 | 50.6 | 176.6 | --- | --- | -10.14 | 0.430 | 93.4 | 214.7 | -20.2 | 0.218 |
| 4-4090 | 4-4490 | 0.371 | 337.7 | -8.4 | 0.27 | 1.189 | 74.0 | 0.500 | 1.790 | 49.6 | 180.1 | --- | 2.684 | -10.78 | 0.432 | 89.9 | 211.6 | -22.1 | 0.214 |
| 4-4090 | 4-4510 | 0.365 | 337.2 | -4.6 | 1.48 | 1.188 | 74.4 | 0.496 | 1.788 | 48.4 | 183.3 | --- | 2.674 | -11.60 | 0.436 | 86.8 | 208.9 | -24.1 | 0.215 |
| 4-4090 | 4-4530 | 0.360 | 336.4 | 0.2 | 2.90 | 1.189 | 75.0 | 0.492 | 1.790 | 46.8 | 186.3 | --- | 2.671 | -12.65 | 0.441 | 84.0 | 206.6 | -26.0 | 0.219 |
| 4-4090 | 4-4550 | 0.358 | 335.3 | 5.9 | 4.64 | 1.189 | 75.5 | 0.489 | 1.795 | 45.1 | 189.1 | --- | 2.674 | -14.01 | 0.447 | 81.5 | 205.1 | -28.1 | 0.227 |
| 4-4090 | 4-4570 | 0.361 | 333.4 | 13.0 | 6.82 | 1.190 | 76.2 | 0.487 | 1.803 | 43.2 | 191.7 | --- | 2.681 | -15.82 | 0.454 | 79.3 | 204.4 | -30.4 | 0.240 |
| 4-4090 | 4-4590 | 0.376 | 330.1 | 21.4 | 9.68 | 1.192 | 76.8 | 0.485 | 1.813 | 41.1 | 194.2 | --- | 2.692 | -18.32 | 0.461 | 77.3 | 204.5 | -33.0 | 0.259 |
| 4-4090 | 4-4610 | 0.409 | 324.5 | 31.0 | 13.63 | 1.193 | 77.5 | 0.484 | 1.824 | 38.9 | 196.5 | --- | 2.707 | -21.91 | 0.468 | 75.6 | 205.8 | -36.1 | 0.287 |
| 4-4090 | 4-4630 | 0.478 | 314.6 | 40.9 | 19.46 | 1.195 | 78.2 | 0.483 | 1.837 | 36.7 | 198.7 | --- | 2.724 | -27.39 | 0.475 | 74.0 | 208.4 | -39.5 | 0.330 |
| 4-4090 | 4-4650 | 0.616 | 297.5 | 48.2 | 28.84 | 1.196 | 78.9 | 0.483 | 1.850 | 34.7 | 200.8 | --- | 2.745 | -36.42 | 0.482 | 72.6 | 213.3 | -42.7 | 0.403 |
| 4-4090 | 4-4670 | 0.881 | 273.3 | 48.2 | 45.27 | 1.198 | 79.3 | 0.485 | 1.865 | 33.2 | 202.8 | --- | 2.769 | -52.49 | 0.489 | 71.2 | 221.3 | -43.6 | 0.533 |
| 4-4090 | 4-4730 | 0.955 | 120.1 | -79.1 | -50.30 | 1.203 | 85.0 | 0.476 | 1.912 | 15.5 | 207.3 | --- | 2.822 | 44.14 | 0.508 | 69.3 | 227.9 | 43.3 | 0.482 |
| 4-4090 | 4-4750 | 0.737 | 78.6 | -73.5 | -37.42 | 1.205 | 85.8 | 0.478 | 1.929 | 13.1 | 208.9 | --- | 2.852 | 31.61 | 0.513 | 68.3 | 224.7 | 39.4 | 0.393 |
| 4-4090 | 4-4770 | 0.607 | 66.5 | -66.6 | -29.81 | 1.207 | 86.7 | 0.481 | 1.946 | 10.1 | 210.3 | --- | 2.882 | 24.37 | 0.518 | 67.4 | 224.2 | 34.3 | 0.350 |
| 4-4090 | 4-4790 | 0.523 | 62.8 | -60.2 | -24.89 | 1.209 | 87.8 | 0.484 | 1.963 | 6.8 | 211.6 | --- | 2.914 | 19.83 | 0.522 | 66.6 | 225.3 | 29.5 | 0.330 |
| 4-4100 | 4-4260 | 0.604 | 358.6 | -20.0 | -8.22 | 1.375 | 69.1 | 0.926 | 11.927 | 43.5 | 116.1 | --- | --- | -9.64 | 0.785 | 144.5 | 229.4 | -6.3 | 0.696 |
| 4-4100 | 4-4280 | 0.564 | 354.3 | -20.6 | -7.53 | 1.319 | 68.8 | 0.798 | 4.274 | 48.1 | 124.7 | --- | --- | -9.45 | 0.685 | 140.2 | 229.4 | -7.0 | 0.592 |
| 4-4100 | 4-4300 | 0.536 | 350.6 | -20.8 | -6.85 | 1.280 | 68.5 | 0.714 | 2.969 | 52.3 | 132.9 | --- | --- | -9.32 | 0.608 | 135.5 | 229.2 | -7.8 | 0.509 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4100 | 4-4320 | 0.517 | 347.7 | -20.5 | -6.19 | 1.251 | 68.3 | 0.658 | 2.447 | 55.8 | 140.4 | --- | --- | -9.23 | 0.549 | 130.4 | 228.7 | -8.7 | 0.442 |
| 4-4100 | 4-4340 | 0.503 | 345.4 | -20.0 | -5.52 | 1.231 | 68.2 | 0.620 | 2.176 | 58.6 | 147.3 | --- | --- | -9.20 | 0.505 | 125.0 | 227.7 | -9.8 | 0.387 |
| 4-4100 | 4-4360 | 0.492 | 343.6 | -19.1 | -4.85 | 1.216 | 68.2 | 0.593 | 2.018 | 60.6 | 153.4 | --- | --- | -9.21 | 0.472 | 119.5 | 226.4 | -11.1 | 0.342 |
| 4-4100 | 4-4380 | 0.482 | 342.3 | -18.0 | -4.17 | 1.205 | 68.3 | 0.574 | 1.918 | 61.9 | 158.9 | --- | --- | -9.26 | 0.448 | 113.9 | 224.5 | -12.4 | 0.307 |
| 4-4100 | 4-4400 | 0.472 | 341.3 | -16.8 | -3.47 | 1.198 | 68.4 | 0.559 | 1.854 | 62.6 | 163.8 | --- | --- | -9.38 | 0.432 | 108.6 | 222.2 | -13.9 | 0.278 |
| 4-4100 | 4-4420 | 0.463 | 340.7 | -15.3 | -2.73 | 1.193 | 68.7 | 0.549 | 1.813 | 62.7 | 168.3 | --- | --- | -9.55 | 0.423 | 103.5 | 219.5 | -15.4 | 0.256 |
| 4-4100 | 4-4440 | 0.455 | 340.2 | -13.5 | -1.96 | 1.189 | 69.0 | 0.540 | 1.787 | 62.5 | 172.3 | --- | --- | -9.78 | 0.418 | 98.8 | 216.5 | -17.0 | 0.240 |
| 4-4100 | 4-4460 | 0.446 | 339.9 | -11.5 | -1.13 | 1.187 | 69.5 | 0.533 | 1.771 | 61.8 | 176.0 | --- | --- | -10.09 | 0.417 | 94.5 | 213.4 | -18.5 | 0.229 |
| 4-4100 | 4-4480 | 0.437 | 339.7 | -9.2 | -0.24 | 1.186 | 69.9 | 0.527 | 1.763 | 60.7 | 179.4 | --- | --- | -10.49 | 0.419 | 90.7 | 210.5 | -20.0 | 0.223 |
| 4-4100 | 4-4500 | 0.428 | 339.6 | -6.5 | 0.75 | 1.186 | 70.5 | 0.522 | 1.761 | 59.4 | 182.5 | --- | 2.680 | -11.00 | 0.423 | 87.3 | 207.8 | -21.4 | 0.221 |
| 4-4100 | 4-4520 | 0.419 | 339.4 | -3.3 | 1.85 | 1.186 | 71.1 | 0.517 | 1.763 | 57.8 | 185.4 | --- | 2.675 | -11.64 | 0.429 | 84.2 | 205.6 | -22.8 | 0.222 |
| 4-4100 | 4-4540 | 0.412 | 339.0 | 0.4 | 3.11 | 1.187 | 71.7 | 0.513 | 1.769 | 56.0 | 188.2 | --- | 2.677 | -12.44 | 0.436 | 81.6 | 204.0 | -24.2 | 0.227 |
| 4-4100 | 4-4560 | 0.406 | 338.4 | 4.8 | 4.58 | 1.188 | 72.4 | 0.509 | 1.778 | 54.0 | 190.7 | --- | 2.683 | -13.47 | 0.443 | 79.3 | 203.0 | -25.7 | 0.234 |
| 4-4100 | 4-4580 | 0.404 | 337.4 | 10.1 | 6.34 | 1.190 | 73.1 | 0.506 | 1.788 | 51.8 | 193.1 | --- | 2.694 | -14.80 | 0.451 | 77.2 | 202.8 | -27.3 | 0.245 |
| 4-4100 | 4-4600 | 0.407 | 335.6 | 16.3 | 8.51 | 1.191 | 73.9 | 0.503 | 1.800 | 49.5 | 195.4 | --- | 2.707 | -16.56 | 0.459 | 75.4 | 203.3 | -29.3 | 0.259 |
| 4-4100 | 4-4620 | 0.420 | 332.6 | 23.7 | 11.30 | 1.193 | 74.7 | 0.501 | 1.814 | 47.1 | 197.6 | --- | 2.723 | -18.92 | 0.467 | 73.8 | 204.6 | -31.6 | 0.277 |
| 4-4100 | 4-4640 | 0.450 | 327.4 | 31.8 | 15.02 | 1.195 | 75.5 | 0.499 | 1.829 | 44.6 | 199.6 | --- | 2.741 | -22.24 | 0.474 | 72.4 | 206.8 | -34.3 | 0.303 |
| 4-4100 | 4-4660 | 0.510 | 318.8 | 40.1 | 20.29 | 1.197 | 76.3 | 0.498 | 1.844 | 42.1 | 201.6 | --- | 2.762 | -27.10 | 0.482 | 71.2 | 210.3 | -37.5 | 0.341 |
| 4-4100 | 4-4680 | 0.621 | 304.6 | 46.5 | 28.29 | 1.199 | 77.0 | 0.497 | 1.860 | 39.7 | 203.4 | --- | 2.786 | -34.70 | 0.489 | 70.0 | 215.4 | -40.7 | 0.401 |
| 4-4100 | 4-4700 | 0.826 | 284.6 | 47.7 | 41.34 | 1.201 | 77.7 | 0.498 | 1.877 | 37.8 | 205.2 | --- | 2.812 | -47.34 | 0.496 | 68.9 | 223.3 | -42.6 | 0.502 |
| 4-4100 | 4-4760 | 1.124 | 158.5 | -82.0 | -60.42 | 1.207 | 84.1 | 0.484 | 1.930 | 18.1 | 209.2 | --- | 2.863 | 55.62 | 0.513 | 67.8 | 237.8 | 42.7 | 0.578 |
| 4-4100 | 4-4780 | 0.850 | 83.8 | -77.9 | -43.81 | 1.209 | 84.8 | 0.487 | 1.948 | 16.1 | 210.7 | --- | 2.896 | 39.42 | 0.518 | 66.9 | 233.4 | 41.2 | 0.460 |
| 4-4100 | 4-4800 | 0.681 | 68.0 | -69.6 | -33.88 | 1.211 | 85.7 | 0.489 | 1.966 | 13.2 | 211.9 | --- | 2.929 | 29.89 | 0.523 | 66.1 | 231.7 | 36.9 | 0.397 |
| 4-4110 | 4-4290 | 0.642 | 351.5 | -18.5 | -7.55 | 1.296 | 62.8 | 0.770 | 3.339 | 63.6 | 132.6 | --- | --- | -10.67 | 0.637 | 139.8 | 227.4 | -7.7 | 0.564 |
| 4-4110 | 4-4310 | 0.615 | 348.8 | -18.3 | -6.76 | 1.261 | 62.8 | 0.707 | 2.568 | 67.4 | 140.4 | --- | --- | -10.41 | 0.565 | 134.7 | 226.8 | -8.6 | 0.486 |
| 4-4110 | 4-4330 | 0.595 | 346.8 | -17.7 | -6.00 | 1.236 | 62.9 | 0.664 | 2.214 | 70.3 | 147.4 | --- | --- | -10.21 | 0.510 | 129.1 | 225.8 | -9.5 | 0.423 |
| 4-4110 | 4-4350 | 0.580 | 345.3 | -17.0 | -5.25 | 1.218 | 63.1 | 0.635 | 2.020 | 72.3 | 153.5 | --- | --- | -10.07 | 0.470 | 123.2 | 224.4 | -10.6 | 0.373 |
| 4-4110 | 4-4370 | 0.566 | 344.2 | -16.1 | -4.51 | 1.205 | 63.3 | 0.614 | 1.903 | 73.6 | 159.0 | --- | --- | -9.98 | 0.441 | 117.3 | 222.5 | -11.8 | 0.332 |
| 4-4110 | 4-4390 | 0.554 | 343.4 | -15.0 | -3.77 | 1.197 | 63.6 | 0.598 | 1.830 | 74.2 | 163.8 | --- | --- | -9.95 | 0.422 | 111.4 | 220.2 | -13.0 | 0.300 |
| 4-4110 | 4-4410 | 0.543 | 342.9 | -13.7 | -3.03 | 1.191 | 64.0 | 0.586 | 1.784 | 74.3 | 168.1 | --- | --- | -9.97 | 0.410 | 105.8 | 217.6 | -14.3 | 0.276 |
| 4-4110 | 4-4430 | 0.532 | 342.7 | -12.3 | -2.26 | 1.187 | 64.5 | 0.576 | 1.755 | 73.9 | 172.0 | --- | --- | -10.05 | 0.403 | 100.6 | 214.7 | -15.6 | 0.257 |
| 4-4110 | 4-4450 | 0.521 | 342.5 | -10.7 | -1.48 | 1.185 | 65.0 | 0.568 | 1.738 | 73.1 | 175.5 | --- | --- | -10.19 | 0.402 | 95.8 | 211.8 | -16.8 | 0.244 |
| 4-4110 | 4-4470 | 0.510 | 342.5 | -8.9 | -0.65 | 1.183 | 65.6 | 0.561 | 1.730 | 72.0 | 178.8 | --- | --- | -10.40 | 0.404 | 91.5 | 208.9 | -18.0 | 0.236 |
| 4-4110 | 4-4490 | 0.499 | 342.6 | -6.9 | 0.22 | 1.183 | 66.2 | 0.554 | 1.728 | 70.6 | 181.8 | --- | 2.686 | -10.69 | 0.408 | 87.7 | 206.3 | -19.0 | 0.232 |
| 4-4110 | 4-4510 | 0.488 | 342.6 | -4.6 | 1.16 | 1.183 | 66.9 | 0.548 | 1.731 | 68.9 | 184.6 | --- | 2.680 | -11.06 | 0.414 | 84.4 | 204.2 | -20.0 | 0.231 |
| 4-4110 | 4-4530 | 0.478 | 342.7 | -1.9 | 2.18 | 1.184 | 67.6 | 0.543 | 1.738 | 67.0 | 187.3 | --- | 2.681 | -11.54 | 0.421 | 81.5 | 202.6 | -21.0 | 0.233 |
| 4-4110 | 4-4550 | 0.468 | 342.6 | 1.1 | 3.32 | 1.186 | 68.3 | 0.538 | 1.747 | 65.0 | 189.8 | --- | 2.687 | -12.15 | 0.430 | 79.0 | 201.7 | -22.0 | 0.237 |
| 4-4110 | 4-4570 | 0.459 | 342.4 | 4.6 | 4.60 | 1.187 | 69.1 | 0.533 | 1.758 | 62.7 | 192.1 | --- | 2.696 | -12.93 | 0.438 | 76.8 | 201.3 | -23.0 | 0.244 |
| 4-4110 | 4-4590 | 0.453 | 341.9 | 8.7 | 6.08 | 1.189 | 70.0 | 0.529 | 1.772 | 60.3 | 194.4 | --- | 2.709 | -13.91 | 0.447 | 74.9 | 201.6 | -24.3 | 0.252 |
| 4-4110 | 4-4610 | 0.449 | 341.0 | 13.5 | 7.82 | 1.191 | 70.9 | 0.525 | 1.786 | 57.8 | 196.5 | --- | 2.724 | -15.17 | 0.456 | 73.3 | 202.4 | -25.7 | 0.263 |
| 4-4110 | 4-4630 | 0.451 | 339.3 | 19.1 | 9.94 | 1.193 | 71.7 | 0.521 | 1.802 | 55.2 | 198.5 | --- | 2.742 | -16.82 | 0.464 | 71.9 | 203.9 | -27.4 | 0.277 |
| 4-4110 | 4-4650 | 0.462 | 336.5 | 25.5 | 12.59 | 1.195 | 72.7 | 0.518 | 1.819 | 52.5 | 200.4 | --- | 2.762 | -19.01 | 0.473 | 70.6 | 206.1 | -29.5 | 0.295 |
| 4-4110 | 4-4670 | 0.487 | 331.9 | 32.6 | 16.05 | 1.197 | 73.6 | 0.516 | 1.836 | 49.7 | 202.2 | --- | 2.783 | -22.02 | 0.481 | 69.5 | 209.0 | -32.1 | 0.318 |
| 4-4110 | 4-4690 | 0.537 | 324.3 | 39.7 | 20.79 | 1.200 | 74.5 | 0.513 | 1.854 | 46.9 | 204.0 | --- | 2.806 | -26.31 | 0.488 | 68.5 | 212.8 | -35.1 | 0.351 |
| 4-4110 | 4-4710 | 0.627 | 312.3 | 45.5 | 27.68 | 1.202 | 75.3 | 0.512 | 1.873 | 44.3 | 205.6 | --- | 2.832 | -32.75 | 0.495 | 67.6 | 218.1 | -38.3 | 0.400 |
| 4-4110 | 4-4730 | 0.789 | 295.2 | 47.5 | 38.34 | 1.204 | 76.1 | 0.512 | 1.891 | 41.9 | 207.2 | --- | 2.859 | -42.98 | 0.502 | 66.8 | 225.6 | -40.9 | 0.480 |
| 4-4110 | 4-4750 | 1.062 | 276.9 | 42.5 | 55.57 | 1.206 | 76.6 | 0.513 | 1.910 | 40.2 | 208.7 | --- | 2.891 | -59.78 | 0.508 | 65.8 | 235.9 | -41.0 | 0.611 |
| 4-4110 | 4-4810 | 0.972 | 84.3 | -82.5 | -50.78 | 1.213 | 83.8 | 0.495 | 1.968 | 18.7 | 212.1 | --- | 2.944 | 47.89 | 0.523 | 65.6 | 242.8 | 41.7 | 0.531 |
| 4-4120 | 4-4280 | 0.772 | 353.1 | -16.5 | -8.69 | 1.318 | 56.1 | 0.837 | 4.059 | 75.7 | 133.1 | --- | --- | -12.40 | 0.676 | 145.0 | 225.4 | -7.5 | 0.634 |
| 4-4120 | 4-4300 | 0.733 | 350.7 | -16.2 | -7.70 | 1.273 | 56.5 | 0.764 | 2.758 | 79.7 | 141.1 | --- | --- | -11.89 | 0.587 | 139.8 | 224.7 | -8.3 | 0.542 |
| 4-4120 | 4-4320 | 0.704 | 348.9 | -15.7 | -6.77 | 1.242 | 56.9 | 0.717 | 2.270 | 82.6 | 148.1 | --- | --- | -11.48 | 0.519 | 134.1 | 223.6 | -9.1 | 0.469 |
| 4-4120 | 4-4340 | 0.682 | 347.7 | -15.0 | -5.89 | 1.220 | 57.3 | 0.685 | 2.025 | 84.6 | 154.1 | --- | --- | -11.14 | 0.469 | 128.0 | 222.1 | -10.0 | 0.411 |
| 4-4120 | 4-4360 | 0.663 | 346.8 | -14.1 | -5.05 | 1.205 | 57.8 | 0.662 | 1.886 | 85.8 | 159.4 | --- | --- | -10.87 | 0.433 | 121.5 | 220.2 | -11.0 | 0.365 |
| 4-4120 | 4-4380 | 0.647 | 346.2 | -13.1 | -4.23 | 1.195 | 58.3 | 0.645 | 1.801 | 86.2 | 164.0 | --- | --- | -10.67 | 0.409 | 115.1 | 218.0 | -12.1 | 0.328 |
| 4-4120 | 4-4400 | 0.632 | 345.9 | -12.0 | -3.43 | 1.188 | 58.8 | 0.632 | 1.749 | 86.2 | 168.2 | --- | --- | -10.53 | 0.393 | 108.7 | 215.4 | -13.1 | 0.300 |
| 4-4120 | 4-4420 | 0.618 | 345.7 | -10.8 | -2.64 | 1.183 | 59.4 | 0.620 | 1.718 | 85.6 | 171.9 | --- | --- | -10.45 | 0.385 | 102.8 | 212.6 | -14.1 | 0.279 |
| 4-4120 | 4-4440 | 0.605 | 345.7 | -9.5 | -1.84 | 1.181 | 60.1 | 0.611 | 1.700 | 84.7 | 175.2 | --- | --- | -10.43 | 0.382 | 97.4 | 209.8 | -15.1 | 0.264 |
| 4-4120 | 4-4460 | 0.591 | 345.9 | -8.0 | -1.04 | 1.180 | 60.8 | 0.602 | 1.691 | 83.4 | 178.3 | --- | --- | -10.47 | 0.384 | 92.5 | 207.1 | -16.0 | 0.253 |
| 4-4120 | 4-4480 | 0.578 | 346.1 | -6.4 | -0.21 | 1.179 | 61.5 | 0.594 | 1.689 | 81.9 | 181.2 | --- | 2.693 | -10.57 | 0.389 | 88.2 | 204.7 | -16.8 | 0.247 |
| 4-4120 | 4-4500 | 0.565 | 346.3 | -4.6 | 0.64 | 1.180 | 62.3 | 0.586 | 1.693 | 80.1 | 183.9 | --- | 2.686 | -10.74 | 0.395 | 84.5 | 202.7 | -17.5 | 0.244 |
| 4-4120 | 4-4520 | 0.552 | 346.6 | -2.6 | 1.54 | 1.181 | 63.1 | 0.580 | 1.700 | 78.1 | 186.4 | --- | 2.686 | -10.99 | 0.404 | 81.3 | 201.2 | -18.2 | 0.244 |
| 4-4120 | 4-4540 | 0.539 | 346.8 | -0.3 | 2.50 | 1.182 | 64.0 | 0.573 | 1.711 | 75.9 | 188.8 | --- | 2.691 | -11.33 | 0.413 | 78.5 | 200.2 | -18.8 | 0.247 |
| 4-4120 | 4-4560 | 0.527 | 347.0 | 2.2 | 3.54 | 1.184 | 64.9 | 0.567 | 1.723 | 73.6 | 191.1 | --- | 2.700 | -11.77 | 0.423 | 76.2 | 199.8 | -19.5 | 0.251 |
| 4-4120 | 4-4580 | 0.516 | 347.0 | 5.1 | 4.68 | 1.186 | 65.8 | 0.561 | 1.738 | 71.2 | 193.3 | --- | 2.712 | -12.34 | 0.432 | 74.2 | 200.0 | -20.3 | 0.257 |
| 4-4120 | 4-4600 | 0.505 | 346.9 | 8.4 | 5.95 | 1.189 | 66.7 | 0.555 | 1.754 | 68.6 | 195.3 | --- | 2.727 | -13.06 | 0.442 | 72.5 | 200.7 | -21.2 | 0.264 |
| 4-4120 | 4-4620 | 0.497 | 346.5 | 12.2 | 7.40 | 1.191 | 67.7 | 0.550 | 1.771 | 65.9 | 197.3 | --- | 2.745 | -13.97 | 0.452 | 71.0 | 202.0 | -22.3 | 0.272 |
| 4-4120 | 4-4640 | 0.492 | 345.6 | 16.6 | 9.09 | 1.193 | 68.7 | 0.545 | 1.789 | 63.1 | 199.2 | --- | 2.764 | -15.14 | 0.461 | 69.7 | 203.7 | -23.6 | 0.283 |
| 4-4120 | 4-4660 | 0.492 | 344.2 | 21.6 | 11.10 | 1.196 | 69.7 | 0.540 | 1.808 | 60.2 | 201.0 | --- | 2.784 | -16.65 | 0.470 | 68.7 | 205.9 | -25.2 | 0.295 |
| 4-4120 | 4-4680 | 0.500 | 341.7 | 27.3 | 13.59 | 1.198 | 70.7 | 0.536 | 1.827 | 57.2 | 202.7 | --- | 2.806 | -18.64 | 0.479 | 67.7 | 208.6 | -27.1 | 0.311 |
| 4-4120 | 4-4700 | 0.520 | 337.6 | 33.5 | 16.76 | 1.201 | 71.8 | 0.533 | 1.847 | 54.2 | 204.4 | --- | 2.830 | -21.33 | 0.487 | 66.9 | 211.9 | -29.5 | 0.331 |
| 4-4120 | 4-4720 | 0.560 | 331.0 | 39.8 | 20.99 | 1.203 | 72.8 | 0.529 | 1.867 | 51.2 | 205.9 | --- | 2.855 | -25.09 | 0.494 | 66.1 | 216.0 | -32.3 | 0.358 |
| 4-4120 | 4-4740 | 0.632 | 320.6 | 45.2 | 26.93 | 1.205 | 73.8 | 0.527 | 1.887 | 48.3 | 207.4 | --- | 2.882 | -30.55 | 0.501 | 65.5 | 221.3 | -35.6 | 0.398 |
| 4-4120 | 4-4760 | 0.759 | 305.8 | 47.7 | 35.76 | 1.208 | 74.6 | 0.526 | 1.907 | 45.6 | 208.8 | --- | 2.910 | -38.92 | 0.507 | 64.8 | 228.3 | -38.7 | 0.461 |
| 4-4120 | 4-4780 | 0.975 | 288.8 | 44.8 | 49.60 | 1.210 | 75.3 | 0.526 | 1.928 | 43.4 | 210.2 | --- | 2.942 | -52.30 | 0.513 | 64.1 | 237.9 | -40.4 | 0.563 |
| 4-4130 | 4-4290 | 0.874 | 353.1 | -14.3 | -9.23 | 1.292 | 49.2 | 0.831 | 3.126 | 92.6 | 142.5 | --- | --- | -13.93 | 0.620 | 146.0 | 222.3 | -7.8 | 0.615 |
| 4-4130 | 4-4310 | 0.832 | 351.6 | -13.7 | -8.02 | 1.251 | 50.0 | 0.779 | 2.371 | 95.5 | 149.3 | --- | --- | -13.18 | 0.535 | 140.3 | 221.2 | -8.5 | 0.527 |
| 4-4130 | 4-4330 | 0.799 | 350.5 | -13.0 | -6.91 | 1.224 | 50.8 | 0.745 | 2.044 | 97.3 | 155.2 | --- | --- | -12.56 | 0.472 | 134.0 | 219.7 | -9.3 | 0.459 |
| 4-4130 | 4-4350 | 0.773 | 349.8 | -12.2 | -5.88 | 1.206 | 51.5 | 0.720 | 1.871 | 98.3 | 160.2 | --- | --- | -12.04 | 0.426 | 127.1 | 217.8 | -10.1 | 0.406 |
| 4-4130 | 4-4370 | 0.751 | 349.4 | -11.3 | -4.92 | 1.193 | 52.3 | 0.701 | 1.771 | 98.5 | 164.5 | --- | --- | -11.62 | 0.394 | 119.9 | 215.6 | -10.9 | 0.363 |
| 4-4130 | 4-4390 | 0.732 | 349.2 | -10.3 | -4.01 | 1.185 | 53.1 | 0.685 | 1.711 | 98.2 | 168.4 | --- | --- | -11.28 | 0.374 | 112.7 | 213.1 | -11.8 | 0.331 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4130 | 4-4410 | 0.714 | 349.2 | -9.2 | -3.13 | 1.179 | 53.9 | 0.672 | 1.676 | 97.4 | 171.9 | --- | --- | -11.01 | 0.363 | 105.8 | 210.5 | -12.6 | 0.306 |
| 4-4130 | 4-4430 | 0.697 | 349.3 | -8.0 | -2.28 | 1.176 | 54.7 | 0.661 | 1.656 | 96.3 | 175.0 | --- | --- | -10.82 | 0.359 | 99.5 | 207.8 | -13.3 | 0.288 |
| 4-4130 | 4-4450 | 0.681 | 349.6 | -6.7 | -1.45 | 1.175 | 55.6 | 0.650 | 1.647 | 94.9 | 177.9 | --- | --- | -10.69 | 0.360 | 93.8 | 205.3 | -14.0 | 0.275 |
| 4-4130 | 4-4470 | 0.665 | 349.9 | -5.3 | -0.62 | 1.175 | 56.4 | 0.641 | 1.646 | 93.2 | 180.6 | --- | 2.700 | -10.62 | 0.365 | 88.9 | 203.0 | -14.6 | 0.267 |
| 4-4130 | 4-4490 | 0.649 | 350.3 | -3.8 | 0.21 | 1.175 | 57.4 | 0.631 | 1.650 | 91.3 | 183.2 | --- | 2.691 | -10.61 | 0.373 | 84.6 | 201.1 | -15.1 | 0.262 |
| 4-4130 | 4-4510 | 0.634 | 350.7 | -2.2 | 1.05 | 1.177 | 58.3 | 0.623 | 1.658 | 89.2 | 185.6 | --- | 2.690 | -10.67 | 0.382 | 81.0 | 199.7 | -15.6 | 0.261 |
| 4-4130 | 4-4530 | 0.619 | 351.1 | -0.4 | 1.92 | 1.178 | 59.3 | 0.614 | 1.669 | 86.9 | 187.8 | --- | 2.695 | -10.80 | 0.393 | 77.9 | 198.8 | -16.0 | 0.261 |
| 4-4130 | 4-4550 | 0.604 | 351.5 | 1.5 | 2.83 | 1.181 | 60.3 | 0.606 | 1.683 | 84.5 | 190.0 | --- | 2.704 | -11.01 | 0.404 | 75.3 | 198.5 | -16.4 | 0.264 |
| 4-4130 | 4-4570 | 0.589 | 351.8 | 3.7 | 3.78 | 1.183 | 61.3 | 0.599 | 1.699 | 82.0 | 192.1 | --- | 2.716 | -11.30 | 0.415 | 73.2 | 198.6 | -16.9 | 0.267 |
| 4-4130 | 4-4590 | 0.575 | 352.1 | 6.2 | 4.81 | 1.185 | 62.3 | 0.591 | 1.716 | 79.3 | 194.1 | --- | 2.731 | -11.69 | 0.426 | 71.3 | 199.3 | -17.5 | 0.272 |
| 4-4130 | 4-4610 | 0.562 | 352.3 | 8.9 | 5.92 | 1.188 | 63.4 | 0.584 | 1.735 | 76.6 | 196.0 | --- | 2.748 | -12.20 | 0.437 | 69.8 | 200.4 | -18.2 | 0.278 |
| 4-4130 | 4-4630 | 0.550 | 352.2 | 12.0 | 7.15 | 1.191 | 64.5 | 0.578 | 1.754 | 73.7 | 197.9 | --- | 2.767 | -12.85 | 0.448 | 68.5 | 201.9 | -19.0 | 0.285 |
| 4-4130 | 4-4650 | 0.540 | 351.9 | 15.5 | 8.54 | 1.193 | 65.6 | 0.571 | 1.774 | 70.8 | 199.7 | --- | 2.787 | -13.68 | 0.458 | 67.4 | 203.9 | -19.9 | 0.293 |
| 4-4130 | 4-4670 | 0.533 | 351.2 | 19.5 | 10.14 | 1.196 | 66.7 | 0.565 | 1.795 | 67.7 | 201.4 | --- | 2.809 | -14.74 | 0.467 | 66.5 | 206.2 | -21.1 | 0.302 |
| 4-4130 | 4-4690 | 0.530 | 350.0 | 24.0 | 12.03 | 1.199 | 67.8 | 0.559 | 1.816 | 64.6 | 203.0 | --- | 2.832 | -16.10 | 0.476 | 65.7 | 208.9 | -22.6 | 0.313 |
| 4-4130 | 4-4710 | 0.534 | 347.8 | 29.1 | 14.32 | 1.202 | 68.9 | 0.554 | 1.837 | 61.4 | 204.6 | --- | 2.856 | -17.87 | 0.485 | 65.1 | 212.0 | -24.4 | 0.326 |
| 4-4130 | 4-4730 | 0.549 | 344.3 | 34.6 | 17.18 | 1.204 | 70.1 | 0.550 | 1.859 | 58.2 | 206.1 | --- | 2.881 | -20.23 | 0.493 | 64.5 | 215.6 | -26.7 | 0.343 |
| 4-4130 | 4-4750 | 0.579 | 338.6 | 40.3 | 20.91 | 1.207 | 71.2 | 0.546 | 1.881 | 55.0 | 207.5 | --- | 2.907 | -23.47 | 0.500 | 64.0 | 219.8 | -29.3 | 0.365 |
| 4-4130 | 4-4770 | 0.636 | 329.7 | 45.4 | 26.00 | 1.209 | 72.3 | 0.542 | 1.903 | 51.9 | 208.9 | --- | 2.935 | -28.08 | 0.506 | 63.5 | 224.9 | -32.5 | 0.397 |
| 4-4130 | 4-4790 | 0.735 | 316.7 | 48.5 | 33.33 | 1.212 | 73.3 | 0.540 | 1.925 | 48.9 | 210.2 | --- | 2.964 | -34.93 | 0.512 | 63.0 | 231.3 | -35.9 | 0.445 |
| 4-4130 | 4-4810 | 0.904 | 300.8 | 47.3 | 44.50 | 1.214 | 74.2 | 0.539 | 1.947 | 46.3 | 211.4 | --- | 2.996 | -45.63 | 0.518 | 62.5 | 240.1 | -38.8 | 0.524 |
| 4-4130 | 4-4830 | 1.175 | 286.3 | 39.9 | 61.95 | 1.217 | 74.7 | 0.540 | 1.968 | 44.4 | 212.5 | --- | 3.032 | -62.62 | 0.522 | 61.9 | 251.4 | -39.0 | 0.650 |
| 4-4140 | 4-4300 | 0.982 | 354.4 | -11.9 | -10.09 | 1.268 | 42.0 | 0.848 | 2.590 | 109.0 | 151.2 | --- | --- | -15.71 | 0.566 | 147.9 | 218.8 | -7.7 | 0.606 |
| 4-4140 | 4-4320 | 0.936 | 353.5 | -11.2 | -8.56 | 1.232 | 43.3 | 0.811 | 2.101 | 110.5 | 156.7 | --- | --- | -14.60 | 0.484 | 141.6 | 217.3 | -8.3 | 0.523 |
| 4-4140 | 4-4340 | 0.899 | 353.0 | -10.4 | -7.20 | 1.208 | 44.4 | 0.784 | 1.871 | 111.1 | 161.3 | --- | --- | -13.69 | 0.424 | 134.4 | 215.5 | -9.0 | 0.458 |
| 4-4140 | 4-4360 | 0.869 | 352.8 | -9.5 | -5.97 | 1.192 | 45.5 | 0.764 | 1.746 | 111.0 | 165.3 | --- | --- | -12.95 | 0.381 | 126.5 | 213.3 | -9.7 | 0.409 |
| 4-4140 | 4-4380 | 0.843 | 352.8 | -8.5 | -4.86 | 1.182 | 46.6 | 0.746 | 1.675 | 110.4 | 168.8 | --- | --- | -12.33 | 0.353 | 118.4 | 211.0 | -10.3 | 0.370 |
| 4-4140 | 4-4400 | 0.820 | 352.9 | -7.5 | -3.83 | 1.175 | 47.7 | 0.731 | 1.633 | 109.4 | 172.0 | --- | --- | -11.82 | 0.337 | 110.3 | 208.4 | -11.0 | 0.341 |
| 4-4140 | 4-4420 | 0.799 | 353.2 | -6.4 | -2.86 | 1.171 | 48.7 | 0.718 | 1.610 | 108.0 | 174.9 | --- | --- | -11.41 | 0.331 | 102.7 | 205.9 | -11.5 | 0.319 |
| 4-4140 | 4-4440 | 0.779 | 353.5 | -5.2 | -1.95 | 1.170 | 49.8 | 0.706 | 1.600 | 106.4 | 177.5 | --- | --- | -11.08 | 0.331 | 95.9 | 203.5 | -12.0 | 0.304 |
| 4-4140 | 4-4460 | 0.760 | 354.0 | -4.0 | -1.07 | 1.169 | 50.9 | 0.694 | 1.598 | 104.5 | 180.0 | --- | 2.707 | -10.82 | 0.336 | 89.9 | 201.4 | -12.5 | 0.293 |
| 4-4140 | 4-4480 | 0.741 | 354.5 | -2.7 | -0.21 | 1.170 | 52.0 | 0.683 | 1.602 | 102.5 | 182.4 | --- | 2.697 | -10.64 | 0.345 | 84.9 | 199.7 | -12.8 | 0.286 |
| 4-4140 | 4-4500 | 0.723 | 355.0 | -1.3 | 0.63 | 1.172 | 53.1 | 0.672 | 1.611 | 100.3 | 184.6 | --- | 2.695 | -10.53 | 0.356 | 80.7 | 198.4 | -13.1 | 0.282 |
| 4-4140 | 4-4520 | 0.705 | 355.5 | 0.2 | 1.47 | 1.174 | 54.2 | 0.662 | 1.624 | 97.9 | 186.8 | --- | 2.699 | -10.48 | 0.368 | 77.1 | 197.5 | -13.4 | 0.281 |
| 4-4140 | 4-4540 | 0.687 | 356.1 | 1.8 | 2.31 | 1.176 | 55.3 | 0.652 | 1.639 | 95.4 | 188.8 | --- | 2.708 | -10.49 | 0.381 | 74.2 | 197.2 | -13.7 | 0.282 |
| 4-4140 | 4-4560 | 0.670 | 356.6 | 3.6 | 3.17 | 1.179 | 56.5 | 0.643 | 1.656 | 92.8 | 190.8 | --- | 2.720 | -10.58 | 0.394 | 71.9 | 197.4 | -14.0 | 0.284 |
| 4-4140 | 4-4580 | 0.653 | 357.1 | 5.5 | 4.06 | 1.182 | 57.6 | 0.633 | 1.674 | 90.1 | 192.8 | --- | 2.735 | -10.74 | 0.406 | 69.9 | 198.0 | -14.4 | 0.287 |
| 4-4140 | 4-4600 | 0.636 | 357.6 | 7.6 | 4.99 | 1.185 | 58.8 | 0.625 | 1.694 | 87.3 | 194.6 | --- | 2.752 | -10.98 | 0.419 | 68.3 | 199.1 | -14.8 | 0.291 |
| 4-4140 | 4-4620 | 0.620 | 357.9 | 9.9 | 5.98 | 1.188 | 60.0 | 0.616 | 1.715 | 84.3 | 196.4 | --- | 2.771 | -11.32 | 0.431 | 66.9 | 200.5 | -15.3 | 0.296 |
| 4-4140 | 4-4640 | 0.605 | 358.2 | 12.5 | 7.05 | 1.191 | 61.2 | 0.608 | 1.736 | 81.3 | 198.2 | --- | 2.792 | -11.76 | 0.443 | 65.8 | 202.3 | -15.9 | 0.301 |
| 4-4140 | 4-4660 | 0.592 | 358.3 | 15.4 | 8.21 | 1.194 | 62.4 | 0.600 | 1.759 | 78.3 | 199.9 | --- | 2.813 | -12.33 | 0.454 | 64.9 | 204.5 | -16.6 | 0.307 |
| 4-4140 | 4-4680 | 0.580 | 358.1 | 18.6 | 9.52 | 1.197 | 63.6 | 0.592 | 1.781 | 75.1 | 201.5 | --- | 2.836 | -13.06 | 0.464 | 64.2 | 206.9 | -17.5 | 0.314 |
| 4-4140 | 4-4700 | 0.570 | 357.6 | 22.3 | 11.00 | 1.200 | 64.8 | 0.585 | 1.804 | 71.9 | 203.1 | --- | 2.859 | -13.99 | 0.473 | 63.6 | 209.6 | -18.6 | 0.321 |
| 4-4140 | 4-4720 | 0.565 | 356.6 | 26.4 | 12.73 | 1.202 | 66.0 | 0.579 | 1.827 | 68.6 | 204.6 | --- | 2.884 | -15.18 | 0.482 | 63.1 | 212.7 | -19.9 | 0.330 |
| 4-4140 | 4-4740 | 0.565 | 354.8 | 30.9 | 14.79 | 1.205 | 67.3 | 0.572 | 1.850 | 65.2 | 206.1 | --- | 2.909 | -16.73 | 0.491 | 62.6 | 216.0 | -21.6 | 0.341 |
| 4-4140 | 4-4760 | 0.574 | 351.9 | 35.9 | 17.33 | 1.208 | 68.5 | 0.567 | 1.873 | 61.9 | 207.5 | --- | 2.935 | -18.76 | 0.498 | 62.3 | 219.8 | -23.6 | 0.354 |
| 4-4140 | 4-4780 | 0.595 | 347.1 | 41.1 | 20.57 | 1.211 | 69.7 | 0.562 | 1.897 | 58.5 | 208.8 | --- | 2.963 | -21.51 | 0.505 | 61.9 | 224.0 | -26.1 | 0.371 |
| 4-4140 | 4-4800 | 0.637 | 339.6 | 46.0 | 24.88 | 1.213 | 70.9 | 0.558 | 1.920 | 55.2 | 210.0 | --- | 2.991 | -25.34 | 0.511 | 61.6 | 228.8 | -29.1 | 0.395 |
| 4-4140 | 4-4820 | 0.712 | 328.3 | 49.6 | 30.92 | 1.216 | 72.0 | 0.554 | 1.943 | 51.9 | 211.2 | --- | 3.020 | -30.91 | 0.516 | 61.4 | 234.8 | -32.6 | 0.432 |
| 4-4140 | 4-4840 | 0.841 | 313.4 | 50.0 | 39.89 | 1.219 | 73.0 | 0.552 | 1.966 | 48.9 | 212.3 | --- | 3.052 | -39.41 | 0.521 | 61.1 | 242.5 | -36.2 | 0.490 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4400 | 4-4620 | 0.801 | 75.0 | 9.4 | -10.02 | 1.305 | 126.2 | 0.834 | 3.741 | 278.6 | 492.3 | 0.623 | --- | -0.70 | 0.708 | 144.5 | 299.3 | -0.4 | 0.648 |
| 4-4400 | 4-4640 | 0.738 | 75.0 | 8.2 | -10.11 | 1.265 | 123.9 | 0.762 | 2.708 | 278.9 | 497.5 | 0.644 | --- | -0.62 | 0.635 | 139.6 | 300.4 | -0.5 | 0.559 |
| 4-4400 | 4-4660 | 0.690 | 75.1 | 7.1 | -10.19 | 1.236 | 122.1 | 0.707 | 2.260 | 279.3 | 502.7 | 0.662 | --- | -0.56 | 0.576 | 134.4 | 301.1 | -0.5 | 0.485 |
| 4-4400 | 4-4680 | 0.653 | 75.1 | 6.1 | -10.26 | 1.214 | 120.6 | 0.664 | 2.017 | 279.5 | 507.8 | 0.677 | --- | -0.52 | 0.530 | 129.0 | 301.1 | -0.5 | 0.422 |
| 4-4400 | 4-4700 | 0.625 | 75.2 | 5.3 | -10.31 | 1.198 | 119.4 | 0.633 | 1.871 | 279.6 | 512.9 | 0.688 | --- | -0.48 | 0.494 | 123.4 | 300.4 | -0.5 | 0.371 |
| 4-4400 | 4-4720 | 0.606 | 75.3 | 4.7 | -10.36 | 1.186 | 118.6 | 0.609 | 1.777 | 279.6 | 517.8 | 0.695 | --- | -0.45 | 0.466 | 117.8 | 298.8 | -0.6 | 0.329 |
| 4-4400 | 4-4740 | 0.593 | 75.6 | 4.2 | -10.40 | 1.178 | 118.1 | 0.593 | 1.716 | 279.3 | 522.5 | 0.698 | --- | -0.43 | 0.445 | 112.3 | 296.2 | -0.6 | 0.295 |
| 4-4400 | 4-4760 | 0.586 | 75.9 | 4.0 | -10.45 | 1.172 | 117.9 | 0.583 | 1.674 | 278.8 | 527.0 | 0.699 | --- | -0.42 | 0.429 | 106.9 | 292.8 | -0.6 | 0.270 |
| 4-4400 | 4-4780 | 0.585 | 76.2 | 4.0 | -10.48 | 1.167 | 117.9 | 0.578 | 1.647 | 278.0 | 531.2 | 0.695 | --- | -0.40 | 0.418 | 101.6 | 288.8 | -0.7 | 0.254 |
| 4-4400 | 4-4800 | 0.588 | 76.8 | 4.2 | -10.52 | 1.165 | 118.2 | 0.577 | 1.629 | 277.0 | 535.2 | 0.689 | --- | -0.40 | 0.410 | 96.5 | 284.4 | -0.7 | 0.245 |
| 4-4400 | 4-4820 | 0.595 | 77.4 | 4.6 | -10.55 | 1.163 | 118.7 | 0.581 | 1.620 | 275.6 | 538.8 | 0.679 | --- | -0.39 | 0.405 | 91.7 | 280.3 | -0.6 | 0.243 |
| 4-4400 | 4-4840 | 0.607 | 78.1 | 5.1 | -10.59 | 1.162 | 119.4 | 0.588 | 1.615 | 273.9 | 542.1 | 0.665 | 2.565 | -0.39 | 0.401 | 87.0 | 276.8 | -0.6 | 0.248 |
| 4-4400 | 4-4860 | 0.623 | 79.0 | 5.8 | -10.62 | 1.162 | 120.4 | 0.599 | 1.615 | 271.9 | 545.1 | 0.648 | 2.583 | -0.39 | 0.400 | 82.5 | 274.2 | -0.6 | 0.259 |
| 4-4400 | 4-4880 | 0.643 | 80.0 | 6.5 | -10.66 | 1.163 | 121.6 | 0.613 | 1.618 | 269.6 | 547.7 | 0.627 | 2.610 | -0.39 | 0.399 | 78.2 | 272.6 | -0.6 | 0.273 |
| 4-4400 | 4-4900 | 0.667 | 81.2 | 7.4 | -10.69 | 1.164 | 123.0 | 0.629 | 1.625 | 266.9 | 550.0 | 0.602 | 2.647 | -0.40 | 0.399 | 74.0 | 272.0 | -0.5 | 0.291 |
| 4-4400 | 4-4920 | 0.694 | 82.5 | 8.4 | -10.73 | 1.165 | 124.7 | 0.648 | 1.633 | 264.0 | 551.9 | 0.574 | 2.692 | -0.41 | 0.400 | 69.9 | 272.4 | -0.5 | 0.311 |
| 4-4400 | 4-4940 | 0.726 | 83.9 | 9.4 | -10.76 | 1.167 | 126.6 | 0.670 | 1.643 | 260.7 | 553.5 | 0.542 | 2.744 | -0.42 | 0.402 | 65.8 | 273.5 | -0.5 | 0.334 |
| 4-4400 | 4-4960 | 0.761 | 85.5 | 10.4 | -10.80 | 1.169 | 128.7 | 0.694 | 1.655 | 257.1 | 554.8 | 0.507 | 2.804 | -0.44 | 0.403 | 61.8 | 275.3 | -0.4 | 0.358 |
| 4-4400 | 4-4980 | 0.801 | 87.2 | 11.4 | -10.85 | 1.171 | 131.0 | 0.720 | 1.669 | 253.3 | 555.7 | 0.468 | 2.869 | -0.46 | 0.405 | 57.7 | 277.7 | -0.4 | 0.384 |
| 4-4400 | 4-5000 | 0.845 | 89.0 | 12.5 | -10.89 | 1.173 | 133.6 | 0.747 | 1.683 | 249.1 | 556.2 | 0.426 | 2.941 | -0.49 | 0.407 | 53.6 | 280.6 | -0.4 | 0.411 |
| 4-4400 | 4-5020 | 0.892 | 91.0 | 13.5 | -10.95 | 1.175 | 136.4 | 0.776 | 1.699 | 244.6 | 556.4 | 0.381 | 3.017 | -0.52 | 0.409 | 49.4 | 283.9 | -0.4 | 0.439 |
| 4-4400 | 4-5040 | 0.943 | 93.2 | 14.5 | -11.01 | 1.178 | 139.5 | 0.805 | 1.716 | 239.8 | 556.3 | 0.334 | 3.098 | -0.56 | 0.412 | 45.2 | 287.6 | -0.4 | 0.469 |
| 4-4400 | 4-5060 | 0.998 | 95.4 | 15.4 | -11.08 | 1.180 | 142.8 | 0.835 | 1.735 | 234.7 | 555.8 | 0.286 | 3.183 | -0.62 | 0.414 | 40.9 | 291.7 | -0.3 | 0.499 |
| 4-4400 | 4-5080 | 1.056 | 97.8 | 16.3 | -11.17 | 1.183 | 146.3 | 0.864 | 1.754 | 229.3 | 555.0 | 0.238 | 3.270 | -0.69 | 0.417 | 36.4 | 296.0 | -0.3 | 0.529 |
| 4-4400 | 4-5100 | 1.117 | 100.4 | 17.2 | -11.27 | 1.186 | 150.1 | 0.893 | 1.774 | 223.7 | 553.9 | 0.190 | 3.358 | -0.78 | 0.420 | 31.9 | 300.6 | -0.3 | 0.560 |
| 4-4400 | 4-5120 | 1.181 | 103.0 | 17.9 | -11.41 | 1.189 | 154.1 | 0.919 | 1.795 | 217.8 | 552.4 | 0.145 | 3.445 | -0.90 | 0.423 | 27.3 | 305.4 | -0.3 | 0.592 |
| 4-4400 | 4-5140 | 1.246 | 105.7 | 18.5 | -11.61 | 1.192 | 158.2 | 0.943 | 1.817 | 211.8 | 550.8 | 0.104 | 3.531 | -1.08 | 0.426 | 22.7 | 310.3 | -0.3 | 0.623 |
| 4-4410 | 4-4630 | 0.782 | 83.1 | 4.8 | -13.23 | 1.308 | 124.1 | 0.829 | 3.879 | 283.3 | 490.1 | 0.661 | --- | 3.04 | 0.716 | 143.7 | 302.6 | 2.0 | 0.643 |
| 4-4410 | 4-4650 | 0.718 | 82.9 | 3.9 | -12.74 | 1.268 | 121.9 | 0.755 | 2.782 | 283.7 | 495.4 | 0.683 | --- | 2.61 | 0.643 | 138.9 | 303.8 | 2.0 | 0.555 |
| 4-4410 | 4-4670 | 0.668 | 82.7 | 3.1 | -12.37 | 1.239 | 120.0 | 0.697 | 2.312 | 284.1 | 500.7 | 0.701 | --- | 2.30 | 0.586 | 133.8 | 304.6 | 2.0 | 0.481 |
| 4-4410 | 4-4690 | 0.630 | 82.6 | 2.4 | -12.07 | 1.218 | 118.5 | 0.653 | 2.059 | 284.5 | 505.9 | 0.715 | --- | 2.07 | 0.540 | 128.5 | 304.8 | 2.1 | 0.419 |
| 4-4410 | 4-4710 | 0.601 | 82.5 | 1.9 | -11.82 | 1.202 | 117.4 | 0.619 | 1.907 | 284.7 | 511.1 | 0.726 | --- | 1.89 | 0.505 | 123.2 | 304.2 | 2.2 | 0.367 |
| 4-4410 | 4-4730 | 0.580 | 82.5 | 1.6 | -11.61 | 1.190 | 116.5 | 0.595 | 1.809 | 284.7 | 516.1 | 0.734 | --- | 1.75 | 0.477 | 117.8 | 302.8 | 2.3 | 0.325 |
| 4-4410 | 4-4750 | 0.566 | 82.5 | 1.4 | -11.43 | 1.181 | 116.0 | 0.577 | 1.745 | 284.6 | 520.9 | 0.738 | --- | 1.64 | 0.456 | 112.5 | 300.5 | 2.4 | 0.291 |
| 4-4410 | 4-4770 | 0.557 | 82.7 | 1.4 | -11.27 | 1.175 | 115.7 | 0.566 | 1.701 | 284.2 | 525.5 | 0.739 | --- | 1.56 | 0.441 | 107.4 | 297.3 | 2.5 | 0.265 |
| 4-4410 | 4-4790 | 0.553 | 83.0 | 1.7 | -11.12 | 1.171 | 115.7 | 0.560 | 1.673 | 283.5 | 529.8 | 0.737 | --- | 1.49 | 0.429 | 102.4 | 293.4 | 2.5 | 0.247 |
| 4-4410 | 4-4810 | 0.554 | 83.4 | 2.1 | -10.98 | 1.168 | 115.9 | 0.558 | 1.654 | 282.5 | 533.9 | 0.731 | --- | 1.44 | 0.421 | 97.6 | 289.1 | 2.5 | 0.237 |
| 4-4410 | 4-4830 | 0.559 | 83.9 | 2.7 | -10.85 | 1.166 | 116.3 | 0.560 | 1.643 | 281.3 | 537.6 | 0.723 | --- | 1.41 | 0.415 | 93.1 | 284.9 | 2.5 | 0.234 |
| 4-4410 | 4-4850 | 0.568 | 84.6 | 3.4 | -10.73 | 1.165 | 117.0 | 0.566 | 1.638 | 279.7 | 541.0 | 0.711 | 2.566 | 1.38 | 0.411 | 88.7 | 281.3 | 2.4 | 0.237 |
| 4-4410 | 4-4870 | 0.581 | 85.4 | 4.3 | -10.61 | 1.165 | 117.8 | 0.575 | 1.638 | 277.8 | 544.1 | 0.696 | 2.579 | 1.37 | 0.409 | 84.5 | 278.4 | 2.3 | 0.245 |
| 4-4410 | 4-4890 | 0.597 | 86.3 | 5.3 | -10.49 | 1.166 | 118.9 | 0.587 | 1.640 | 275.7 | 546.9 | 0.678 | 2.603 | 1.37 | 0.408 | 80.4 | 276.6 | 2.1 | 0.257 |
| 4-4410 | 4-4910 | 0.617 | 87.4 | 6.3 | -10.37 | 1.166 | 120.2 | 0.601 | 1.646 | 273.2 | 549.3 | 0.656 | 2.636 | 1.38 | 0.408 | 76.5 | 275.7 | 2.0 | 0.273 |
| 4-4410 | 4-4930 | 0.641 | 88.7 | 7.4 | -10.25 | 1.168 | 121.6 | 0.619 | 1.654 | 270.4 | 551.4 | 0.631 | 2.676 | 1.39 | 0.408 | 72.7 | 275.8 | 1.9 | 0.291 |
| 4-4410 | 4-4950 | 0.668 | 90.0 | 8.5 | -10.13 | 1.169 | 123.3 | 0.638 | 1.663 | 267.4 | 553.2 | 0.602 | 2.724 | 1.42 | 0.409 | 69.0 | 276.6 | 1.7 | 0.311 |
| 4-4410 | 4-4970 | 0.699 | 91.6 | 9.7 | -10.00 | 1.171 | 125.1 | 0.659 | 1.675 | 264.0 | 554.7 | 0.571 | 2.779 | 1.46 | 0.410 | 65.2 | 278.2 | 1.6 | 0.333 |
| 4-4410 | 4-4990 | 0.734 | 93.2 | 10.8 | -9.87 | 1.173 | 127.2 | 0.683 | 1.688 | 260.4 | 555.8 | 0.535 | 2.840 | 1.51 | 0.411 | 61.5 | 280.3 | 1.5 | 0.356 |
| 4-4410 | 4-5010 | 0.772 | 95.0 | 11.9 | -9.73 | 1.175 | 129.5 | 0.708 | 1.702 | 256.5 | 556.6 | 0.497 | 2.906 | 1.58 | 0.413 | 57.8 | 282.9 | 1.5 | 0.381 |
| 4-4410 | 4-5030 | 0.814 | 96.9 | 13.0 | -9.57 | 1.177 | 132.0 | 0.735 | 1.717 | 252.4 | 557.1 | 0.455 | 2.978 | 1.67 | 0.414 | 54.0 | 286.0 | 1.4 | 0.406 |
| 4-4410 | 4-5050 | 0.860 | 99.0 | 14.0 | -9.40 | 1.179 | 134.7 | 0.763 | 1.733 | 247.9 | 557.3 | 0.411 | 3.055 | 1.77 | 0.416 | 50.1 | 289.4 | 1.3 | 0.432 |
| 4-4410 | 4-5070 | 0.909 | 101.1 | 15.0 | -9.20 | 1.182 | 137.7 | 0.791 | 1.750 | 243.2 | 557.2 | 0.365 | 3.135 | 1.90 | 0.418 | 46.2 | 293.1 | 1.2 | 0.460 |
| 4-4410 | 4-5090 | 0.962 | 103.4 | 15.9 | -8.97 | 1.184 | 140.8 | 0.821 | 1.768 | 238.3 | 556.8 | 0.317 | 3.219 | 2.06 | 0.420 | 42.2 | 297.2 | 1.2 | 0.488 |
| 4-4410 | 4-5110 | 1.017 | 105.8 | 16.7 | -8.71 | 1.187 | 144.2 | 0.850 | 1.787 | 233.1 | 556.0 | 0.269 | 3.306 | 2.27 | 0.422 | 38.0 | 301.5 | 1.1 | 0.516 |
| 4-4410 | 4-5130 | 1.076 | 108.4 | 17.4 | -8.38 | 1.189 | 147.8 | 0.878 | 1.807 | 227.6 | 555.0 | 0.221 | 3.393 | 2.54 | 0.425 | 33.8 | 306.0 | 1.1 | 0.545 |
| 4-4410 | 4-5150 | 1.137 | 111.0 | 18.0 | -7.97 | 1.192 | 151.6 | 0.904 | 1.828 | 221.9 | 553.7 | 0.175 | 3.481 | 2.89 | 0.427 | 29.5 | 310.7 | 1.1 | 0.575 |
| 4-4410 | 4-5170 | 1.199 | 113.7 | 18.6 | -7.43 | 1.195 | 155.5 | 0.929 | 1.850 | 216.1 | 552.2 | 0.131 | 3.568 | 3.38 | 0.430 | 25.1 | 315.6 | 1.0 | 0.604 |
| 4-4420 | 4-4640 | 0.784 | 91.8 | -3.5 | -18.67 | 1.310 | 122.0 | 0.824 | 3.984 | 288.0 | 488.0 | 0.699 | --- | 9.05 | 0.722 | 142.8 | 305.4 | 6.1 | 0.641 |
| 4-4420 | 4-4660 | 0.712 | 91.0 | -3.2 | -16.84 | 1.271 | 119.8 | 0.747 | 2.842 | 288.6 | 493.4 | 0.720 | --- | 7.36 | 0.650 | 138.1 | 306.9 | 5.8 | 0.552 |
| 4-4420 | 4-4680 | 0.657 | 90.4 | -3.2 | -15.57 | 1.242 | 117.9 | 0.687 | 2.356 | 289.1 | 498.8 | 0.738 | --- | 6.23 | 0.593 | 133.1 | 307.8 | 5.6 | 0.478 |
| 4-4420 | 4-4700 | 0.615 | 89.9 | -3.2 | -14.63 | 1.221 | 116.5 | 0.641 | 2.095 | 289.5 | 504.2 | 0.752 | --- | 5.43 | 0.549 | 128.0 | 308.1 | 5.6 | 0.416 |
| 4-4420 | 4-4720 | 0.584 | 89.6 | -3.2 | -13.89 | 1.205 | 115.3 | 0.606 | 1.938 | 289.8 | 509.4 | 0.763 | --- | 4.84 | 0.514 | 122.8 | 307.7 | 5.7 | 0.365 |
| 4-4420 | 4-4740 | 0.560 | 89.3 | -3.0 | -13.29 | 1.193 | 114.5 | 0.581 | 1.838 | 290.0 | 514.5 | 0.771 | --- | 4.40 | 0.487 | 117.7 | 306.4 | 5.9 | 0.322 |
| 4-4420 | 4-4760 | 0.543 | 89.2 | -2.8 | -12.79 | 1.184 | 113.9 | 0.562 | 1.772 | 289.9 | 519.4 | 0.775 | --- | 4.05 | 0.466 | 112.6 | 304.3 | 6.1 | 0.288 |
| 4-4420 | 4-4780 | 0.532 | 89.2 | -2.3 | -12.36 | 1.178 | 113.6 | 0.550 | 1.727 | 289.6 | 524.1 | 0.777 | --- | 3.79 | 0.451 | 107.7 | 301.3 | 6.2 | 0.261 |
| 4-4420 | 4-4800 | 0.525 | 89.4 | -1.7 | -11.97 | 1.174 | 113.6 | 0.543 | 1.697 | 289.0 | 528.5 | 0.776 | --- | 3.58 | 0.439 | 103.0 | 297.6 | 6.3 | 0.243 |
| 4-4420 | 4-4820 | 0.524 | 89.7 | -0.9 | -11.63 | 1.171 | 113.7 | 0.540 | 1.678 | 288.2 | 532.7 | 0.771 | --- | 3.42 | 0.431 | 98.5 | 293.4 | 6.3 | 0.231 |
| 4-4420 | 4-4840 | 0.526 | 90.1 | -0.0 | -11.31 | 1.169 | 114.1 | 0.541 | 1.666 | 287.0 | 536.5 | 0.764 | --- | 3.29 | 0.425 | 94.2 | 289.2 | 6.2 | 0.227 |
| 4-4420 | 4-4860 | 0.532 | 90.7 | 1.0 | -11.01 | 1.168 | 114.6 | 0.546 | 1.661 | 285.6 | 540.0 | 0.754 | --- | 3.20 | 0.420 | 90.0 | 285.5 | 5.9 | 0.228 |
| 4-4420 | 4-4880 | 0.542 | 91.5 | 2.2 | -10.73 | 1.168 | 115.4 | 0.554 | 1.660 | 283.8 | 543.2 | 0.741 | 2.578 | 3.14 | 0.418 | 86.1 | 282.5 | 5.6 | 0.234 |
| 4-4420 | 4-4900 | 0.555 | 92.4 | 3.4 | -10.46 | 1.169 | 116.3 | 0.564 | 1.662 | 281.8 | 546.0 | 0.725 | 2.599 | 3.10 | 0.416 | 82.3 | 280.5 | 5.2 | 0.245 |
| 4-4420 | 4-4920 | 0.572 | 93.5 | 4.7 | -10.20 | 1.169 | 117.5 | 0.577 | 1.667 | 279.4 | 548.6 | 0.706 | 2.628 | 3.08 | 0.416 | 78.7 | 279.4 | 4.9 | 0.258 |
| 4-4420 | 4-4940 | 0.592 | 94.7 | 6.0 | -9.94 | 1.170 | 118.8 | 0.592 | 1.674 | 276.8 | 550.8 | 0.684 | 2.665 | 3.09 | 0.415 | 75.1 | 279.2 | 4.5 | 0.274 |
| 4-4420 | 4-4960 | 0.616 | 96.1 | 7.3 | -9.67 | 1.172 | 120.2 | 0.609 | 1.684 | 274.0 | 552.8 | 0.658 | 2.709 | 3.12 | 0.416 | 71.6 | 279.8 | 4.2 | 0.292 |
| 4-4420 | 4-4980 | 0.643 | 97.5 | 8.6 | -9.41 | 1.174 | 121.9 | 0.628 | 1.695 | 270.8 | 554.4 | 0.630 | 2.759 | 3.17 | 0.416 | 68.2 | 281.1 | 3.9 | 0.312 |
| 4-4420 | 4-5000 | 0.673 | 99.2 | 9.8 | -9.13 | 1.175 | 123.8 | 0.649 | 1.707 | 267.4 | 555.8 | 0.598 | 2.816 | 3.25 | 0.417 | 64.8 | 283.0 | 3.7 | 0.333 |
| 4-4420 | 4-5020 | 0.706 | 100.9 | 11.0 | -8.84 | 1.177 | 125.8 | 0.672 | 1.720 | 263.8 | 556.8 | 0.564 | 2.877 | 3.35 | 0.418 | 61.4 | 285.4 | 3.5 | 0.354 |
| 4-4420 | 4-5040 | 0.743 | 102.8 | 12.2 | -8.54 | 1.179 | 128.0 | 0.697 | 1.735 | 259.9 | 557.6 | 0.526 | 2.944 | 3.48 | 0.419 | 57.9 | 288.2 | 3.3 | 0.377 |
| 4-4420 | 4-5060 | 0.784 | 104.8 | 13.3 | -8.21 | 1.182 | 130.4 | 0.723 | 1.751 | 255.8 | 558.1 | 0.485 | 3.016 | 3.65 | 0.421 | 54.4 | 291.4 | 3.1 | 0.401 |
| 4-4420 | 4-5080 | 0.828 | 106.9 | 14.3 | -7.84 | 1.184 | 133.0 | 0.750 | 1.767 | 251.4 | 558.2 | 0.442 | 3.092 | 3.85 | 0.422 | 50.8 | 294.9 | 3.0 | 0.426 |
| 4-4420 | 4-5100 | 0.875 | 109.1 | 15.2 | -7.44 | 1.186 | 135.8 | 0.778 | 1.784 | 246.8 | 558.1 | 0.397 | 3.171 | 4.11 | 0.424 | 47.2 | 298.7 | 2.8 | 0.451 |
| 4-4420 | 4-5120 | 0.925 | 111.4 | 16.0 | -6.99 | 1.188 | 138.9 | 0.806 | 1.802 | 242.0 | 557.7 | 0.350 | 3.255 | 4.42 | 0.425 | 43.4 | 302.7 | 2.7 | 0.477 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4420 | 4-5140 | 0.978 | 113.9 | 16.7 | -6.46 | 1.191 | 142.1 | 0.834 | 1.821 | 237.0 | 557.1 | 0.302 | 3.340 | 4.81 | 0.427 | 39.6 | 306.9 | 2.6 | 0.503 |
| 4-4420 | 4-5160 | 1.034 | 116.4 | 17.4 | -5.83 | 1.193 | 145.4 | 0.862 | 1.841 | 231.7 | 556.2 | 0.254 | 3.427 | 5.31 | 0.429 | 35.7 | 311.4 | 2.5 | 0.530 |
| 4-4420 | 4-5180 | 1.092 | 119.0 | 17.9 | -5.06 | 1.196 | 149.0 | 0.888 | 1.861 | 226.2 | 555.0 | 0.208 | 3.515 | 5.95 | 0.431 | 31.7 | 316.0 | 2.4 | 0.558 |
| 4-4430 | 4-4670 | 0.748 | 100.3 | -14.8 | -23.96 | 1.273 | 117.7 | 0.738 | 2.885 | 293.4 | 491.7 | 0.756 | --- | 15.18 | 0.655 | 137.3 | 308.9 | 12.0 | 0.558 |
| 4-4430 | 4-4690 | 0.673 | 98.6 | -12.8 | -20.67 | 1.245 | 115.8 | 0.676 | 2.390 | 294.1 | 497.1 | 0.774 | --- | 12.10 | 0.599 | 132.4 | 310.2 | 11.1 | 0.481 |
| 4-4430 | 4-4710 | 0.619 | 97.4 | -11.5 | -18.46 | 1.223 | 114.4 | 0.629 | 2.125 | 294.7 | 502.6 | 0.788 | --- | 10.10 | 0.556 | 127.4 | 310.8 | 10.7 | 0.418 |
| 4-4430 | 4-4730 | 0.579 | 96.6 | -10.5 | -16.85 | 1.208 | 113.2 | 0.594 | 1.966 | 295.1 | 508.0 | 0.799 | --- | 8.72 | 0.521 | 122.4 | 310.6 | 10.5 | 0.365 |
| 4-4430 | 4-4750 | 0.550 | 96.0 | -9.5 | -15.62 | 1.196 | 112.4 | 0.567 | 1.864 | 295.4 | 513.2 | 0.806 | --- | 7.71 | 0.495 | 117.4 | 309.6 | 10.5 | 0.322 |
| 4-4430 | 4-4770 | 0.528 | 95.6 | -8.5 | -14.63 | 1.188 | 111.9 | 0.548 | 1.796 | 295.4 | 518.1 | 0.811 | --- | 6.96 | 0.475 | 112.6 | 307.7 | 10.6 | 0.287 |
| 4-4430 | 4-4790 | 0.513 | 95.4 | -7.5 | -13.82 | 1.182 | 111.5 | 0.536 | 1.750 | 295.2 | 522.9 | 0.813 | --- | 6.38 | 0.459 | 107.9 | 304.8 | 10.7 | 0.260 |
| 4-4430 | 4-4810 | 0.503 | 95.4 | -6.3 | -13.12 | 1.177 | 111.4 | 0.528 | 1.720 | 294.7 | 527.4 | 0.812 | --- | 5.93 | 0.448 | 103.4 | 301.3 | 10.8 | 0.241 |
| 4-4430 | 4-4830 | 0.498 | 95.6 | -5.0 | -12.51 | 1.174 | 111.6 | 0.524 | 1.700 | 293.9 | 531.6 | 0.809 | --- | 5.58 | 0.439 | 99.1 | 297.3 | 10.6 | 0.228 |
| 4-4430 | 4-4850 | 0.497 | 95.9 | -3.7 | -11.96 | 1.173 | 111.9 | 0.525 | 1.688 | 292.9 | 535.5 | 0.803 | --- | 5.31 | 0.433 | 95.0 | 293.2 | 10.4 | 0.222 |
| 4-4430 | 4-4870 | 0.500 | 96.5 | -2.2 | -11.47 | 1.172 | 112.4 | 0.528 | 1.682 | 291.5 | 539.0 | 0.794 | --- | 5.10 | 0.429 | 91.1 | 289.4 | 9.9 | 0.222 |
| 4-4430 | 4-4890 | 0.507 | 97.2 | -0.7 | -11.01 | 1.171 | 113.1 | 0.534 | 1.681 | 289.8 | 542.3 | 0.783 | 2.579 | 4.95 | 0.426 | 87.4 | 286.4 | 9.3 | 0.227 |
| 4-4430 | 4-4910 | 0.517 | 98.2 | 0.9 | -10.57 | 1.172 | 113.9 | 0.543 | 1.683 | 287.9 | 545.2 | 0.769 | 2.597 | 4.83 | 0.424 | 83.8 | 284.2 | 8.7 | 0.235 |
| 4-4430 | 4-4930 | 0.531 | 99.2 | 2.4 | -10.16 | 1.173 | 114.9 | 0.554 | 1.688 | 285.7 | 547.9 | 0.752 | 2.624 | 4.76 | 0.423 | 80.4 | 282.9 | 8.1 | 0.247 |
| 4-4430 | 4-4950 | 0.547 | 100.5 | 4.0 | -9.76 | 1.174 | 116.1 | 0.568 | 1.695 | 283.2 | 550.2 | 0.733 | 2.657 | 4.72 | 0.422 | 77.1 | 282.6 | 7.5 | 0.261 |
| 4-4430 | 4-4970 | 0.567 | 101.8 | 5.5 | -9.36 | 1.175 | 117.4 | 0.583 | 1.704 | 280.5 | 552.3 | 0.710 | 2.698 | 4.72 | 0.422 | 73.9 | 283.0 | 6.9 | 0.277 |
| 4-4430 | 4-4990 | 0.590 | 103.3 | 7.0 | -8.97 | 1.176 | 118.9 | 0.600 | 1.715 | 277.5 | 554.1 | 0.685 | 2.744 | 4.75 | 0.422 | 70.7 | 284.1 | 6.4 | 0.294 |
| 4-4430 | 4-5010 | 0.617 | 105.0 | 8.5 | -8.57 | 1.178 | 120.6 | 0.619 | 1.727 | 274.3 | 555.6 | 0.657 | 2.796 | 4.81 | 0.423 | 67.6 | 285.8 | 6.0 | 0.313 |
| 4-4430 | 4-5030 | 0.646 | 106.7 | 9.8 | -8.16 | 1.180 | 122.4 | 0.640 | 1.740 | 270.9 | 556.8 | 0.626 | 2.853 | 4.90 | 0.424 | 64.4 | 288.0 | 5.6 | 0.332 |
| 4-4430 | 4-5050 | 0.679 | 108.6 | 11.1 | -7.74 | 1.182 | 124.3 | 0.662 | 1.754 | 267.2 | 557.8 | 0.592 | 2.916 | 5.04 | 0.424 | 61.3 | 290.6 | 5.3 | 0.353 |
| 4-4430 | 4-5070 | 0.714 | 110.6 | 12.3 | -7.30 | 1.184 | 126.5 | 0.686 | 1.769 | 263.4 | 558.5 | 0.555 | 2.982 | 5.21 | 0.425 | 58.1 | 293.6 | 5.0 | 0.374 |
| 4-4430 | 4-5090 | 0.753 | 112.7 | 13.3 | -6.83 | 1.186 | 128.8 | 0.711 | 1.785 | 259.3 | 558.9 | 0.516 | 3.053 | 5.42 | 0.426 | 54.9 | 296.8 | 4.8 | 0.396 |
| 4-4430 | 4-5110 | 0.795 | 114.8 | 14.3 | -6.32 | 1.188 | 131.3 | 0.737 | 1.801 | 255.0 | 559.1 | 0.474 | 3.129 | 5.69 | 0.427 | 51.5 | 300.4 | 4.5 | 0.419 |
| 4-4430 | 4-5130 | 0.840 | 117.1 | 15.1 | -5.76 | 1.191 | 134.0 | 0.764 | 1.819 | 250.6 | 559.0 | 0.430 | 3.207 | 6.03 | 0.429 | 48.2 | 304.2 | 4.4 | 0.442 |
| 4-4430 | 4-5150 | 0.888 | 119.4 | 15.9 | -5.13 | 1.193 | 136.8 | 0.791 | 1.837 | 245.9 | 558.7 | 0.384 | 3.289 | 6.43 | 0.430 | 44.7 | 308.2 | 4.2 | 0.466 |
| 4-4430 | 4-5170 | 0.939 | 121.9 | 16.5 | -4.42 | 1.195 | 139.9 | 0.818 | 1.855 | 241.0 | 558.1 | 0.338 | 3.373 | 6.94 | 0.432 | 41.2 | 312.3 | 4.0 | 0.491 |
| 4-4430 | 4-5190 | 0.992 | 124.4 | 17.0 | -3.59 | 1.197 | 143.0 | 0.845 | 1.875 | 236.0 | 557.3 | 0.290 | 3.459 | 7.56 | 0.433 | 37.5 | 316.7 | 3.9 | 0.516 |
| 4-4440 | 4-4680 | 0.904 | 114.7 | -31.8 | -38.46 | 1.274 | 115.7 | 0.729 | 2.908 | 297.9 | 490.2 | 0.788 | --- | 30.44 | 0.658 | 136.4 | 307.4 | 22.4 | 0.603 |
| 4-4440 | 4-4700 | 0.755 | 109.0 | -26.9 | -29.78 | 1.247 | 113.8 | 0.666 | 2.414 | 299.0 | 495.8 | 0.807 | --- | 22.02 | 0.603 | 131.6 | 310.8 | 19.6 | 0.504 |
| 4-4440 | 4-4720 | 0.663 | 105.8 | -23.3 | -24.69 | 1.226 | 112.3 | 0.618 | 2.148 | 299.8 | 501.3 | 0.821 | --- | 17.21 | 0.561 | 126.7 | 312.3 | 18.0 | 0.431 |
| 4-4440 | 4-4740 | 0.601 | 103.9 | -20.6 | -21.36 | 1.210 | 111.2 | 0.582 | 1.988 | 300.4 | 506.7 | 0.832 | --- | 14.17 | 0.527 | 121.8 | 312.6 | 17.1 | 0.374 |
| 4-4440 | 4-4760 | 0.557 | 102.5 | -18.3 | -19.00 | 1.199 | 110.3 | 0.555 | 1.886 | 300.9 | 512.0 | 0.840 | --- | 12.10 | 0.501 | 117.0 | 312.0 | 16.6 | 0.328 |
| 4-4440 | 4-4780 | 0.526 | 101.7 | -16.3 | -17.22 | 1.191 | 109.8 | 0.535 | 1.817 | 301.0 | 517.1 | 0.845 | --- | 10.61 | 0.481 | 112.4 | 310.4 | 16.3 | 0.292 |
| 4-4440 | 4-4800 | 0.503 | 101.2 | -14.3 | -15.82 | 1.185 | 109.4 | 0.522 | 1.772 | 300.9 | 521.9 | 0.847 | --- | 9.51 | 0.466 | 107.9 | 307.8 | 16.2 | 0.263 |
| 4-4440 | 4-4820 | 0.488 | 100.9 | -12.4 | -14.67 | 1.181 | 109.3 | 0.514 | 1.741 | 300.5 | 526.4 | 0.847 | --- | 8.68 | 0.455 | 103.6 | 304.5 | 16.0 | 0.242 |
| 4-4440 | 4-4840 | 0.478 | 101.0 | -10.4 | -13.70 | 1.178 | 109.4 | 0.510 | 1.721 | 299.8 | 530.7 | 0.844 | --- | 8.03 | 0.446 | 99.5 | 300.7 | 15.6 | 0.229 |
| 4-4440 | 4-4860 | 0.473 | 101.2 | -8.5 | -12.87 | 1.176 | 109.7 | 0.509 | 1.709 | 298.8 | 534.6 | 0.839 | --- | 7.53 | 0.440 | 95.6 | 296.7 | 15.1 | 0.221 |
| 4-4440 | 4-4880 | 0.472 | 101.8 | -6.5 | -12.12 | 1.175 | 110.2 | 0.512 | 1.703 | 297.5 | 538.2 | 0.831 | --- | 7.14 | 0.436 | 91.9 | 293.0 | 14.3 | 0.219 |
| 4-4440 | 4-4900 | 0.476 | 102.5 | -4.5 | -11.45 | 1.175 | 110.8 | 0.517 | 1.701 | 296.0 | 541.5 | 0.821 | 2.581 | 6.84 | 0.433 | 88.4 | 290.0 | 13.4 | 0.222 |
| 4-4440 | 4-4920 | 0.482 | 103.4 | -2.5 | -10.83 | 1.175 | 111.5 | 0.525 | 1.703 | 294.1 | 544.5 | 0.809 | 2.597 | 6.60 | 0.431 | 85.1 | 287.7 | 12.5 | 0.229 |
| 4-4440 | 4-4940 | 0.493 | 104.6 | -0.5 | -10.25 | 1.176 | 112.5 | 0.535 | 1.708 | 292.0 | 547.2 | 0.795 | 2.622 | 6.43 | 0.429 | 81.9 | 286.4 | 11.5 | 0.239 |
| 4-4440 | 4-4960 | 0.506 | 105.8 | 1.4 | -9.71 | 1.177 | 113.5 | 0.547 | 1.715 | 289.6 | 549.6 | 0.778 | 2.653 | 6.32 | 0.429 | 78.8 | 285.9 | 10.6 | 0.251 |
| 4-4440 | 4-4980 | 0.523 | 107.3 | 3.3 | -9.18 | 1.178 | 114.7 | 0.560 | 1.724 | 287.0 | 551.8 | 0.758 | 2.690 | 6.25 | 0.428 | 75.8 | 286.1 | 9.8 | 0.265 |
| 4-4440 | 4-5000 | 0.542 | 108.8 | 5.0 | -8.66 | 1.180 | 116.1 | 0.576 | 1.735 | 284.2 | 553.7 | 0.736 | 2.733 | 6.22 | 0.428 | 72.8 | 287.1 | 9.1 | 0.280 |
| 4-4440 | 4-5020 | 0.565 | 110.5 | 6.7 | -8.15 | 1.181 | 117.6 | 0.593 | 1.746 | 281.1 | 555.3 | 0.711 | 2.782 | 6.24 | 0.428 | 69.9 | 288.6 | 8.5 | 0.297 |
| 4-4440 | 4-5040 | 0.590 | 112.3 | 8.2 | -7.64 | 1.183 | 119.2 | 0.611 | 1.759 | 277.9 | 556.7 | 0.684 | 2.835 | 6.29 | 0.429 | 67.0 | 290.7 | 7.9 | 0.314 |
| 4-4440 | 4-5060 | 0.619 | 114.3 | 9.7 | -7.12 | 1.185 | 121.0 | 0.631 | 1.773 | 274.5 | 557.8 | 0.653 | 2.893 | 6.39 | 0.429 | 64.1 | 293.1 | 7.4 | 0.332 |
| 4-4440 | 4-5080 | 0.651 | 116.3 | 11.0 | -6.59 | 1.187 | 122.9 | 0.653 | 1.788 | 270.8 | 558.7 | 0.621 | 2.955 | 6.54 | 0.430 | 61.2 | 295.9 | 7.0 | 0.351 |
| 4-4440 | 4-5100 | 0.685 | 118.3 | 12.1 | -6.04 | 1.189 | 125.0 | 0.675 | 1.803 | 267.0 | 559.4 | 0.585 | 3.021 | 6.73 | 0.431 | 58.3 | 298.9 | 6.6 | 0.371 |
| 4-4440 | 4-5120 | 0.722 | 120.5 | 13.2 | -5.46 | 1.191 | 127.2 | 0.699 | 1.819 | 263.0 | 559.8 | 0.547 | 3.091 | 6.97 | 0.431 | 55.3 | 302.3 | 6.3 | 0.391 |
| 4-4440 | 4-5140 | 0.763 | 122.7 | 14.1 | -4.83 | 1.193 | 129.6 | 0.724 | 1.836 | 258.8 | 560.0 | 0.507 | 3.165 | 7.27 | 0.432 | 52.3 | 305.9 | 6.0 | 0.412 |
| 4-4440 | 4-5160 | 0.806 | 125.0 | 14.8 | -4.16 | 1.195 | 132.1 | 0.749 | 1.853 | 254.5 | 559.9 | 0.464 | 3.242 | 7.64 | 0.433 | 49.1 | 309.7 | 5.8 | 0.433 |
| 4-4440 | 4-5180 | 0.852 | 127.4 | 15.5 | -3.41 | 1.197 | 134.8 | 0.775 | 1.871 | 249.9 | 559.7 | 0.420 | 3.322 | 8.10 | 0.435 | 46.0 | 313.6 | 5.5 | 0.455 |
| 4-4440 | 4-5200 | 0.900 | 129.8 | 16.0 | -2.58 | 1.200 | 137.6 | 0.802 | 1.890 | 245.2 | 559.2 | 0.375 | 3.405 | 8.65 | 0.436 | 42.7 | 317.8 | 5.3 | 0.478 |
| 4-4450 | 4-4710 | 1.006 | 128.3 | -44.1 | -48.53 | 1.248 | 111.9 | 0.656 | 2.425 | 303.3 | 494.8 | 0.834 | --- | 41.63 | 0.606 | 130.9 | 305.3 | 30.8 | 0.595 |
| 4-4450 | 4-4730 | 0.799 | 117.9 | -38.8 | -36.07 | 1.228 | 110.3 | 0.607 | 2.163 | 304.8 | 500.3 | 0.851 | --- | 29.51 | 0.564 | 126.0 | 310.6 | 27.9 | 0.480 |
| 4-4450 | 4-4750 | 0.678 | 112.6 | -33.9 | -28.87 | 1.213 | 109.1 | 0.570 | 2.005 | 305.8 | 505.8 | 0.862 | --- | 22.65 | 0.532 | 121.2 | 312.8 | 25.7 | 0.403 |
| 4-4450 | 4-4770 | 0.600 | 109.5 | -29.8 | -24.26 | 1.202 | 108.3 | 0.543 | 1.903 | 306.4 | 511.1 | 0.870 | --- | 18.38 | 0.506 | 116.6 | 313.1 | 24.3 | 0.347 |
| 4-4450 | 4-4790 | 0.547 | 107.7 | -26.3 | -21.06 | 1.194 | 107.7 | 0.523 | 1.835 | 306.8 | 516.2 | 0.875 | --- | 15.52 | 0.487 | 112.0 | 312.1 | 23.3 | 0.305 |
| 4-4450 | 4-4810 | 0.511 | 106.5 | -23.2 | -18.69 | 1.188 | 107.4 | 0.510 | 1.790 | 306.8 | 521.1 | 0.878 | --- | 13.50 | 0.472 | 107.7 | 310.0 | 22.6 | 0.273 |
| 4-4450 | 4-4830 | 0.485 | 105.9 | -20.2 | -16.84 | 1.184 | 107.2 | 0.501 | 1.760 | 306.5 | 525.7 | 0.878 | --- | 12.03 | 0.461 | 103.6 | 307.0 | 22.0 | 0.250 |
| 4-4450 | 4-4850 | 0.467 | 105.8 | -17.3 | -15.35 | 1.181 | 107.3 | 0.497 | 1.740 | 305.9 | 529.9 | 0.876 | --- | 10.91 | 0.453 | 99.6 | 303.5 | 21.2 | 0.233 |
| 4-4450 | 4-4870 | 0.456 | 105.9 | -14.6 | -14.11 | 1.180 | 107.6 | 0.496 | 1.728 | 305.0 | 533.9 | 0.872 | --- | 10.05 | 0.447 | 95.9 | 299.8 | 20.3 | 0.224 |
| 4-4450 | 4-4890 | 0.450 | 106.4 | -11.8 | -13.04 | 1.179 | 108.0 | 0.498 | 1.722 | 303.7 | 537.5 | 0.865 | --- | 9.38 | 0.442 | 92.5 | 296.2 | 19.1 | 0.220 |
| 4-4450 | 4-4910 | 0.449 | 107.1 | -9.2 | -12.11 | 1.179 | 108.5 | 0.502 | 1.721 | 302.2 | 540.9 | 0.857 | 2.585 | 8.86 | 0.439 | 89.1 | 293.2 | 17.8 | 0.221 |
| 4-4450 | 4-4930 | 0.452 | 108.1 | -6.6 | -11.27 | 1.179 | 109.2 | 0.509 | 1.723 | 300.4 | 543.9 | 0.846 | 2.599 | 8.46 | 0.437 | 86.0 | 291.0 | 16.5 | 0.226 |
| 4-4450 | 4-4950 | 0.458 | 109.3 | -4.1 | -10.50 | 1.180 | 110.1 | 0.517 | 1.728 | 298.4 | 546.6 | 0.834 | 2.622 | 8.14 | 0.435 | 83.0 | 289.6 | 15.2 | 0.234 |
| 4-4450 | 4-4970 | 0.468 | 110.7 | -1.8 | -9.79 | 1.181 | 111.0 | 0.528 | 1.735 | 296.1 | 549.1 | 0.819 | 2.651 | 7.91 | 0.434 | 80.1 | 289.0 | 14.0 | 0.244 |
| 4-4450 | 4-4990 | 0.481 | 112.3 | 0.5 | -9.12 | 1.182 | 112.1 | 0.540 | 1.744 | 293.6 | 551.3 | 0.802 | 2.686 | 7.74 | 0.434 | 77.3 | 289.2 | 12.9 | 0.256 |
| 4-4450 | 4-5010 | 0.498 | 113.9 | 2.6 | -8.48 | 1.183 | 113.4 | 0.554 | 1.754 | 290.9 | 553.3 | 0.782 | 2.726 | 7.63 | 0.434 | 74.6 | 290.1 | 11.9 | 0.269 |
| 4-4450 | 4-5030 | 0.517 | 115.7 | 4.5 | -7.86 | 1.185 | 114.7 | 0.569 | 1.766 | 288.0 | 555.0 | 0.761 | 2.771 | 7.57 | 0.434 | 71.9 | 291.5 | 11.0 | 0.284 |
| 4-4450 | 4-5050 | 0.539 | 117.7 | 6.3 | -7.25 | 1.187 | 116.2 | 0.586 | 1.779 | 284.9 | 556.5 | 0.736 | 2.821 | 7.56 | 0.434 | 69.2 | 293.3 | 10.3 | 0.299 |
| 4-4450 | 4-5070 | 0.564 | 119.7 | 7.9 | -6.64 | 1.188 | 117.8 | 0.604 | 1.792 | 281.6 | 557.7 | 0.710 | 2.875 | 7.60 | 0.434 | 66.6 | 295.6 | 9.6 | 0.315 |
| 4-4450 | 4-5090 | 0.592 | 121.7 | 9.4 | -6.04 | 1.190 | 119.5 | 0.623 | 1.807 | 278.2 | 558.8 | 0.681 | 2.933 | 7.69 | 0.434 | 63.9 | 298.3 | 9.0 | 0.332 |
| 4-4450 | 4-5110 | 0.623 | 123.9 | 10.7 | -5.42 | 1.192 | 121.4 | 0.644 | 1.822 | 274.5 | 559.6 | 0.649 | 2.994 | 7.83 | 0.435 | 61.2 | 301.2 | 8.5 | 0.350 |
| 4-4450 | 4-5130 | 0.656 | 126.1 | 11.8 | -4.78 | 1.194 | 123.4 | 0.665 | 1.837 | 270.8 | 560.2 | 0.615 | 3.060 | 8.02 | 0.435 | 58.5 | 304.3 | 8.1 | 0.367 |
| 4-4450 | 4-5150 | 0.692 | 128.3 | 12.8 | -4.11 | 1.196 | 125.5 | 0.688 | 1.854 | 266.8 | 560.6 | 0.579 | 3.129 | 8.26 | 0.436 | 55.8 | 307.7 | 7.7 | 0.386 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4450 | 4-5170 | 0.730 | 130.6 | 13.6 | -3.41 | 1.198 | 127.8 | 0.711 | 1.871 | 262.8 | 560.8 | 0.540 | 3.201 | 8.57 | 0.437 | 53.0 | 311.3 | 7.4 | 0.405 |
| 4-4450 | 4-5190 | 0.772 | 133.0 | 14.3 | -2.65 | 1.200 | 130.2 | 0.735 | 1.888 | 258.5 | 560.8 | 0.499 | 3.277 | 8.95 | 0.438 | 50.1 | 315.1 | 7.1 | 0.425 |
| 4-4450 | 4-5210 | 0.815 | 135.3 | 14.9 | -1.84 | 1.202 | 132.7 | 0.760 | 1.906 | 254.2 | 560.6 | 0.457 | 3.355 | 9.41 | 0.439 | 47.1 | 319.0 | 6.8 | 0.445 |
| 4-4460 | 4-4740 | 1.142 | 144.9 | -54.0 | -59.31 | 1.230 | 108.7 | 0.598 | 2.169 | 308.9 | 499.7 | 0.873 | --- | 53.70 | 0.566 | 125.4 | 301.2 | 36.4 | 0.626 |
| 4-4460 | 4-4760 | 0.874 | 127.6 | -49.6 | -42.86 | 1.215 | 107.2 | 0.559 | 2.015 | 310.8 | 505.1 | 0.888 | --- | 37.62 | 0.534 | 120.6 | 308.5 | 35.3 | 0.486 |
| 4-4460 | 4-4780 | 0.714 | 119.0 | -44.0 | -33.23 | 1.204 | 106.3 | 0.532 | 1.916 | 312.0 | 510.5 | 0.897 | --- | 28.38 | 0.510 | 116.0 | 311.7 | 33.3 | 0.397 |
| 4-4460 | 4-4800 | 0.613 | 114.4 | -38.8 | -27.15 | 1.197 | 105.6 | 0.512 | 1.850 | 312.6 | 515.7 | 0.903 | --- | 22.70 | 0.491 | 111.6 | 312.3 | 31.5 | 0.338 |
| 4-4460 | 4-4820 | 0.547 | 111.9 | -34.2 | -23.01 | 1.191 | 105.3 | 0.498 | 1.805 | 312.8 | 520.6 | 0.906 | --- | 18.96 | 0.477 | 107.4 | 311.1 | 30.0 | 0.296 |
| 4-4460 | 4-4840 | 0.502 | 110.5 | -29.9 | -20.00 | 1.187 | 105.1 | 0.490 | 1.776 | 312.7 | 525.1 | 0.907 | --- | 16.35 | 0.466 | 103.4 | 308.8 | 28.7 | 0.266 |
| 4-4460 | 4-4860 | 0.471 | 109.9 | -25.9 | -17.69 | 1.185 | 105.2 | 0.485 | 1.757 | 312.2 | 529.4 | 0.905 | --- | 14.45 | 0.458 | 99.7 | 305.7 | 27.4 | 0.245 |
| 4-4460 | 4-4880 | 0.450 | 109.8 | -22.2 | -15.85 | 1.183 | 105.4 | 0.484 | 1.745 | 311.3 | 533.4 | 0.902 | --- | 13.03 | 0.452 | 96.1 | 302.3 | 25.9 | 0.232 |
| 4-4460 | 4-4900 | 0.436 | 110.2 | -18.5 | -14.33 | 1.182 | 105.8 | 0.485 | 1.740 | 310.1 | 537.0 | 0.896 | --- | 11.95 | 0.448 | 92.8 | 299.0 | 24.2 | 0.225 |
| 4-4460 | 4-4920 | 0.429 | 111.0 | -15.1 | -13.04 | 1.182 | 106.3 | 0.489 | 1.739 | 308.7 | 540.4 | 0.889 | 2.589 | 11.11 | 0.444 | 89.7 | 296.2 | 22.5 | 0.224 |
| 4-4460 | 4-4940 | 0.426 | 112.1 | -11.8 | -11.92 | 1.183 | 107.0 | 0.495 | 1.741 | 306.9 | 543.4 | 0.880 | 2.602 | 10.45 | 0.442 | 86.7 | 294.0 | 20.7 | 0.226 |
| 4-4460 | 4-4960 | 0.428 | 113.4 | -8.6 | -10.92 | 1.183 | 107.7 | 0.502 | 1.746 | 305.0 | 546.2 | 0.869 | 2.624 | 9.93 | 0.441 | 83.9 | 292.6 | 19.0 | 0.232 |
| 4-4460 | 4-4980 | 0.434 | 114.9 | -5.7 | -10.02 | 1.184 | 108.6 | 0.512 | 1.754 | 302.7 | 548.7 | 0.856 | 2.651 | 9.53 | 0.440 | 81.1 | 292.0 | 17.4 | 0.240 |
| 4-4460 | 4-5000 | 0.444 | 116.6 | -2.9 | -9.19 | 1.186 | 109.7 | 0.523 | 1.763 | 300.3 | 550.9 | 0.841 | 2.684 | 9.22 | 0.439 | 78.5 | 292.2 | 16.0 | 0.250 |
| 4-4460 | 4-5020 | 0.457 | 118.5 | -0.4 | -8.41 | 1.187 | 110.8 | 0.535 | 1.773 | 297.7 | 552.9 | 0.825 | 2.722 | 8.99 | 0.438 | 76.0 | 292.9 | 14.7 | 0.261 |
| 4-4460 | 4-5040 | 0.473 | 120.5 | 2.0 | -7.67 | 1.188 | 112.0 | 0.549 | 1.785 | 294.9 | 554.7 | 0.806 | 2.764 | 8.83 | 0.438 | 73.5 | 294.2 | 13.6 | 0.274 |
| 4-4460 | 4-5060 | 0.491 | 122.6 | 4.1 | -6.96 | 1.190 | 113.4 | 0.564 | 1.798 | 291.9 | 556.3 | 0.785 | 2.811 | 8.73 | 0.438 | 71.0 | 296.0 | 12.6 | 0.287 |
| 4-4460 | 4-5080 | 0.513 | 124.7 | 5.9 | -6.27 | 1.192 | 114.8 | 0.580 | 1.811 | 288.7 | 557.6 | 0.761 | 2.861 | 8.69 | 0.438 | 68.6 | 298.2 | 11.8 | 0.301 |
| 4-4460 | 4-5100 | 0.538 | 126.9 | 7.6 | -5.59 | 1.194 | 116.4 | 0.597 | 1.826 | 285.4 | 558.8 | 0.736 | 2.915 | 8.71 | 0.438 | 66.2 | 300.7 | 11.1 | 0.316 |
| 4-4460 | 4-5120 | 0.565 | 129.2 | 9.1 | -4.91 | 1.196 | 118.1 | 0.615 | 1.841 | 282.0 | 559.7 | 0.708 | 2.973 | 8.77 | 0.439 | 63.7 | 303.5 | 10.4 | 0.332 |
| 4-4460 | 4-5140 | 0.594 | 131.5 | 10.3 | -4.23 | 1.197 | 119.9 | 0.635 | 1.856 | 278.4 | 560.5 | 0.678 | 3.034 | 8.89 | 0.439 | 61.3 | 306.5 | 9.9 | 0.347 |
| 4-4460 | 4-5160 | 0.627 | 133.8 | 11.4 | -3.53 | 1.199 | 121.8 | 0.655 | 1.872 | 274.7 | 561.1 | 0.645 | 3.099 | 9.06 | 0.440 | 58.8 | 309.7 | 9.4 | 0.364 |
| 4-4460 | 4-5180 | 0.661 | 136.1 | 12.3 | -2.80 | 1.201 | 123.8 | 0.677 | 1.889 | 270.8 | 561.5 | 0.611 | 3.166 | 9.29 | 0.440 | 56.2 | 313.2 | 8.9 | 0.380 |
| 4-4460 | 4-5200 | 0.698 | 138.5 | 13.0 | -2.05 | 1.203 | 126.0 | 0.699 | 1.905 | 266.9 | 561.7 | 0.574 | 3.237 | 9.58 | 0.441 | 53.6 | 316.8 | 8.5 | 0.398 |
| 4-4460 | 4-5220 | 0.738 | 140.8 | 13.6 | -1.25 | 1.205 | 128.2 | 0.722 | 1.923 | 262.7 | 561.7 | 0.535 | 3.310 | 9.95 | 0.442 | 51.0 | 320.5 | 8.2 | 0.416 |
| 4-4470 | 4-4690 | 0.686 | 161.5 | 67.6 | 26.16 | 1.309 | 107.9 | 0.763 | 3.799 | 318.4 | 480.1 | 0.901 | --- | -32.04 | 0.717 | 136.9 | 313.9 | -23.8 | 0.643 |
| 4-4470 | 4-4710 | 0.808 | 203.7 | 67.8 | 36.82 | 1.275 | 105.8 | 0.677 | 2.843 | 320.5 | 486.2 | 0.919 | --- | -42.29 | 0.654 | 132.3 | 309.4 | -31.2 | 0.629 |
| 4-4470 | 4-4790 | 0.973 | 139.0 | -59.2 | -50.19 | 1.207 | 104.5 | 0.522 | 1.923 | 316.9 | 510.2 | 0.918 | --- | 46.41 | 0.512 | 115.4 | 305.3 | 40.3 | 0.518 |
| 4-4470 | 4-4810 | 0.768 | 125.0 | -53.4 | -37.82 | 1.199 | 103.7 | 0.502 | 1.860 | 318.3 | 515.4 | 0.926 | --- | 34.46 | 0.494 | 111.0 | 309.5 | 39.3 | 0.412 |
| 4-4470 | 4-4830 | 0.639 | 118.3 | -47.3 | -30.07 | 1.194 | 103.2 | 0.488 | 1.817 | 318.9 | 520.3 | 0.930 | --- | 27.14 | 0.480 | 106.9 | 310.5 | 37.6 | 0.344 |
| 4-4470 | 4-4850 | 0.555 | 114.9 | -41.6 | -24.88 | 1.190 | 103.0 | 0.479 | 1.789 | 318.9 | 524.9 | 0.931 | --- | 22.38 | 0.470 | 103.1 | 309.4 | 35.7 | 0.298 |
| 4-4470 | 4-4870 | 0.499 | 113.4 | -36.3 | -21.17 | 1.188 | 103.0 | 0.475 | 1.771 | 318.6 | 529.2 | 0.931 | --- | 19.11 | 0.462 | 99.5 | 307.2 | 33.8 | 0.268 |
| 4-4470 | 4-4890 | 0.460 | 112.9 | -31.4 | -18.37 | 1.187 | 103.2 | 0.473 | 1.761 | 317.8 | 533.1 | 0.928 | --- | 16.76 | 0.456 | 96.1 | 304.3 | 31.8 | 0.248 |
| 4-4470 | 4-4910 | 0.434 | 113.1 | -26.7 | -16.17 | 1.186 | 103.6 | 0.474 | 1.756 | 316.7 | 536.7 | 0.924 | --- | 15.02 | 0.452 | 92.9 | 301.4 | 29.6 | 0.237 |
| 4-4470 | 4-4930 | 0.417 | 113.9 | -22.3 | -14.38 | 1.186 | 104.1 | 0.477 | 1.755 | 315.3 | 540.0 | 0.918 | 2.593 | 13.69 | 0.449 | 90.0 | 298.8 | 27.4 | 0.231 |
| 4-4470 | 4-4950 | 0.408 | 115.1 | -18.1 | -12.87 | 1.186 | 104.7 | 0.482 | 1.758 | 313.6 | 543.1 | 0.910 | 2.607 | 12.66 | 0.447 | 87.2 | 296.8 | 25.1 | 0.230 |
| 4-4470 | 4-4970 | 0.404 | 116.6 | -14.1 | -11.57 | 1.187 | 105.4 | 0.489 | 1.764 | 311.7 | 545.8 | 0.901 | 2.627 | 11.86 | 0.445 | 84.5 | 295.4 | 23.0 | 0.233 |
| 4-4470 | 4-4990 | 0.405 | 118.3 | -10.4 | -10.43 | 1.188 | 106.3 | 0.498 | 1.771 | 309.5 | 548.3 | 0.890 | 2.653 | 11.23 | 0.444 | 81.9 | 294.9 | 21.0 | 0.239 |
| 4-4470 | 4-5010 | 0.410 | 120.3 | -7.0 | -9.40 | 1.189 | 107.2 | 0.507 | 1.781 | 307.1 | 550.6 | 0.877 | 2.684 | 10.73 | 0.443 | 79.5 | 295.0 | 19.2 | 0.247 |
| 4-4470 | 4-5030 | 0.419 | 122.4 | -3.9 | -8.47 | 1.191 | 108.3 | 0.519 | 1.791 | 304.6 | 552.6 | 0.863 | 2.720 | 10.34 | 0.443 | 77.1 | 295.7 | 17.6 | 0.256 |
| 4-4470 | 4-5050 | 0.432 | 124.6 | -1.1 | -7.60 | 1.192 | 109.4 | 0.531 | 1.803 | 301.8 | 554.4 | 0.846 | 2.761 | 10.05 | 0.442 | 74.8 | 296.9 | 16.2 | 0.267 |
| 4-4470 | 4-5070 | 0.447 | 126.9 | 1.4 | -6.78 | 1.194 | 110.7 | 0.544 | 1.816 | 298.9 | 556.0 | 0.828 | 2.804 | 9.84 | 0.442 | 72.5 | 298.6 | 15.0 | 0.278 |
| 4-4470 | 4-5090 | 0.466 | 129.3 | 3.7 | -6.00 | 1.196 | 112.0 | 0.559 | 1.830 | 295.9 | 557.5 | 0.808 | 2.852 | 9.69 | 0.442 | 70.3 | 300.7 | 14.0 | 0.290 |
| 4-4470 | 4-5110 | 0.487 | 131.7 | 5.6 | -5.24 | 1.197 | 113.4 | 0.574 | 1.844 | 292.7 | 558.7 | 0.785 | 2.903 | 9.61 | 0.442 | 68.0 | 303.1 | 13.1 | 0.303 |
| 4-4470 | 4-5130 | 0.511 | 134.2 | 7.3 | -4.50 | 1.199 | 115.0 | 0.591 | 1.859 | 289.4 | 559.7 | 0.761 | 2.957 | 9.59 | 0.443 | 65.8 | 305.8 | 12.3 | 0.317 |
| 4-4470 | 4-5150 | 0.538 | 136.6 | 8.7 | -3.77 | 1.201 | 116.6 | 0.608 | 1.875 | 286.0 | 560.6 | 0.735 | 3.014 | 9.62 | 0.443 | 63.6 | 308.7 | 11.6 | 0.330 |
| 4-4470 | 4-5170 | 0.566 | 139.0 | 9.9 | -3.04 | 1.203 | 118.3 | 0.626 | 1.890 | 282.4 | 561.4 | 0.706 | 3.075 | 9.70 | 0.443 | 61.3 | 311.8 | 11.0 | 0.345 |
| 4-4470 | 4-5190 | 0.598 | 141.5 | 10.9 | -2.30 | 1.205 | 120.2 | 0.646 | 1.907 | 278.8 | 561.9 | 0.676 | 3.138 | 9.85 | 0.444 | 59.0 | 315.1 | 10.4 | 0.360 |
| 4-4470 | 4-5210 | 0.631 | 143.9 | 11.7 | -1.55 | 1.207 | 122.1 | 0.666 | 1.923 | 275.0 | 562.3 | 0.643 | 3.204 | 10.05 | 0.444 | 56.7 | 318.5 | 9.9 | 0.375 |
| 4-4470 | 4-5230 | 0.667 | 146.3 | 12.3 | -0.76 | 1.209 | 124.1 | 0.687 | 1.940 | 271.1 | 562.5 | 0.608 | 3.273 | 10.30 | 0.445 | 54.3 | 322.1 | 9.5 | 0.390 |
| 4-4480 | 4-4660 | 0.622 | 131.5 | 46.7 | 12.50 | 1.412 | 109.4 | 1.01 | 179.640 | 321.4 | 467.2 | 0.899 | --- | -18.39 | 0.887 | 144.1 | 318.2 | -12.3 | 0.774 |
| 4-4480 | 4-4680 | 0.576 | 137.5 | 55.6 | 15.64 | 1.350 | 107.0 | 0.856 | 6.370 | 322.9 | 473.4 | 0.916 | --- | -21.06 | 0.787 | 140.0 | 319.0 | -15.7 | 0.671 |
| 4-4480 | 4-4700 | 0.572 | 150.7 | 65.0 | 19.84 | 1.306 | 105.0 | 0.744 | 3.630 | 324.7 | 479.7 | 0.931 | --- | -24.80 | 0.709 | 135.6 | 318.9 | -20.4 | 0.596 |
| 4-4480 | 4-4720 | 0.619 | 180.7 | 71.4 | 25.77 | 1.273 | 103.2 | 0.660 | 2.780 | 326.7 | 486.1 | 0.944 | --- | -30.26 | 0.648 | 131.1 | 317.2 | -26.5 | 0.551 |
| 4-4480 | 4-4740 | 0.735 | 219.5 | 68.5 | 34.64 | 1.249 | 101.6 | 0.598 | 2.379 | 328.9 | 492.4 | 0.956 | --- | -38.68 | 0.601 | 126.5 | 312.8 | -33.5 | 0.546 |
| 4-4480 | 4-4760 | 0.952 | 239.4 | 57.3 | 48.68 | 1.231 | 100.0 | 0.551 | 2.154 | 331.6 | 498.7 | 0.967 | --- | -52.27 | 0.563 | 121.8 | 304.6 | -39.1 | 0.601 |
| 4-4480 | 4-4820 | 1.093 | 154.2 | -67.8 | -58.26 | 1.202 | 102.0 | 0.495 | 1.865 | 323.0 | 515.3 | 0.943 | --- | 56.00 | 0.495 | 110.6 | 302.5 | 42.3 | 0.572 |
| 4-4480 | 4-4840 | 0.838 | 130.8 | -62.2 | -42.80 | 1.197 | 101.3 | 0.480 | 1.826 | 324.6 | 520.3 | 0.949 | --- | 41.00 | 0.482 | 106.5 | 307.1 | 43.2 | 0.443 |
| 4-4480 | 4-4860 | 0.675 | 120.9 | -55.2 | -33.10 | 1.194 | 101.0 | 0.471 | 1.799 | 325.2 | 524.9 | 0.952 | --- | 31.74 | 0.472 | 102.7 | 308.5 | 42.0 | 0.362 |
| 4-4480 | 4-4880 | 0.570 | 116.7 | -48.5 | -26.70 | 1.191 | 100.9 | 0.466 | 1.783 | 325.1 | 529.1 | 0.952 | --- | 25.80 | 0.465 | 99.2 | 307.7 | 40.0 | 0.311 |
| 4-4480 | 4-4900 | 0.500 | 115.1 | -42.3 | -22.22 | 1.190 | 101.1 | 0.464 | 1.774 | 324.5 | 533.1 | 0.950 | --- | 21.78 | 0.460 | 95.9 | 305.7 | 37.7 | 0.278 |
| 4-4480 | 4-4920 | 0.452 | 114.9 | -36.4 | -18.90 | 1.190 | 101.4 | 0.465 | 1.770 | 323.5 | 536.6 | 0.947 | --- | 18.92 | 0.456 | 92.9 | 303.3 | 35.0 | 0.257 |
| 4-4480 | 4-4940 | 0.420 | 115.6 | -30.9 | -16.32 | 1.190 | 101.8 | 0.468 | 1.770 | 322.1 | 539.9 | 0.942 | --- | 16.83 | 0.453 | 90.1 | 301.1 | 32.3 | 0.245 |
| 4-4480 | 4-4960 | 0.399 | 116.8 | -25.6 | -14.25 | 1.190 | 102.4 | 0.472 | 1.774 | 320.5 | 542.9 | 0.936 | 2.611 | 15.24 | 0.451 | 87.4 | 299.2 | 29.6 | 0.240 |
| 4-4480 | 4-4980 | 0.387 | 118.6 | -20.7 | -12.54 | 1.191 | 103.1 | 0.478 | 1.780 | 318.6 | 545.6 | 0.928 | 2.631 | 14.02 | 0.449 | 84.9 | 298.0 | 27.0 | 0.239 |
| 4-4480 | 4-5000 | 0.381 | 120.6 | -16.1 | -11.07 | 1.192 | 103.9 | 0.486 | 1.788 | 316.5 | 548.1 | 0.919 | 2.657 | 13.07 | 0.448 | 82.5 | 297.5 | 24.6 | 0.241 |
| 4-4480 | 4-5020 | 0.381 | 122.9 | -11.9 | -9.80 | 1.193 | 104.8 | 0.495 | 1.798 | 314.1 | 550.3 | 0.908 | 2.687 | 12.32 | 0.447 | 80.2 | 297.6 | 22.4 | 0.247 |
| 4-4480 | 4-5040 | 0.386 | 125.4 | -8.0 | -8.66 | 1.195 | 105.8 | 0.505 | 1.809 | 311.6 | 552.4 | 0.896 | 2.721 | 11.72 | 0.447 | 78.0 | 298.3 | 20.5 | 0.254 |
| 4-4480 | 4-5060 | 0.394 | 128.0 | -4.6 | -7.63 | 1.196 | 106.9 | 0.516 | 1.821 | 308.9 | 554.2 | 0.882 | 2.760 | 11.26 | 0.446 | 75.8 | 299.5 | 18.8 | 0.262 |
| 4-4480 | 4-5080 | 0.406 | 130.6 | -1.5 | -6.69 | 1.198 | 108.0 | 0.527 | 1.834 | 306.1 | 555.8 | 0.867 | 2.802 | 10.89 | 0.446 | 73.7 | 301.1 | 17.3 | 0.272 |
| 4-4480 | 4-5100 | 0.422 | 133.3 | 1.1 | -5.80 | 1.200 | 109.3 | 0.540 | 1.848 | 303.1 | 557.3 | 0.849 | 2.847 | 10.62 | 0.446 | 71.6 | 303.1 | 16.1 | 0.282 |
| 4-4480 | 4-5120 | 0.440 | 136.0 | 3.4 | -4.97 | 1.201 | 110.6 | 0.554 | 1.862 | 300.0 | 558.6 | 0.830 | 2.895 | 10.42 | 0.446 | 69.6 | 305.5 | 15.0 | 0.293 |
| 4-4480 | 4-5140 | 0.461 | 138.7 | 5.4 | -4.17 | 1.203 | 112.0 | 0.569 | 1.877 | 296.8 | 559.7 | 0.809 | 2.946 | 10.29 | 0.446 | 67.5 | 308.0 | 14.0 | 0.304 |
| 4-4480 | 4-5160 | 0.485 | 141.4 | 7.0 | -3.39 | 1.205 | 113.5 | 0.585 | 1.893 | 293.5 | 560.7 | 0.786 | 2.999 | 10.23 | 0.446 | 65.5 | 310.9 | 13.2 | 0.316 |
| 4-4480 | 4-5180 | 0.511 | 144.0 | 8.4 | -2.63 | 1.207 | 115.1 | 0.601 | 1.909 | 290.1 | 561.5 | 0.761 | 3.056 | 10.22 | 0.446 | 63.4 | 313.9 | 12.4 | 0.329 |
| 4-4480 | 4-5200 | 0.539 | 146.6 | 9.5 | -1.87 | 1.209 | 116.7 | 0.618 | 1.925 | 286.6 | 562.2 | 0.734 | 3.115 | 10.26 | 0.447 | 61.3 | 317.0 | 11.8 | 0.342 |
| 4-4480 | 4-5220 | 0.569 | 149.1 | 10.3 | -1.11 | 1.210 | 118.5 | 0.637 | 1.941 | 283.0 | 562.7 | 0.706 | 3.177 | 10.36 | 0.447 | 59.2 | 320.4 | 11.2 | 0.355 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4480 | 4-5240 | 0.601 | 151.6 | 11.0 | -0.34 | 1.212 | 120.3 | 0.655 | 1.958 | 279.3 | 563.1 | 0.675 | 3.241 | 10.52 | 0.448 | 57.1 | 323.8 | 10.7 | 0.369 |
| 4-4490 | 4-4650 | 0.642 | 131.5 | 39.4 | 9.24 | 1.484 | 108.2 | 1.198 | -4.622 | 326.7 | 460.6 | 0.917 | --- | -14.73 | 0.995 | 146.5 | 319.7 | -9.2 | 0.873 |
| 4-4490 | 4-4670 | 0.559 | 133.8 | 46.4 | 11.13 | 1.402 | 105.8 | 0.982 | 53.039 | 328.1 | 466.8 | 0.932 | --- | -16.10 | 0.870 | 142.7 | 321.1 | -11.4 | 0.741 |
| 4-4490 | 4-4690 | 0.510 | 137.9 | 54.6 | 13.42 | 1.344 | 103.7 | 0.831 | 5.579 | 329.8 | 473.2 | 0.946 | --- | -17.88 | 0.774 | 138.6 | 322.1 | -14.2 | 0.638 |
| 4-4490 | 4-4710 | 0.494 | 146.1 | 63.6 | 16.29 | 1.302 | 101.8 | 0.721 | 3.435 | 331.7 | 479.8 | 0.957 | --- | -20.26 | 0.699 | 134.3 | 322.4 | -18.0 | 0.560 |
| 4-4490 | 4-4730 | 0.511 | 165.0 | 71.6 | 20.04 | 1.271 | 100.2 | 0.642 | 2.698 | 333.7 | 486.4 | 0.967 | --- | -23.52 | 0.640 | 129.8 | 321.8 | -22.9 | 0.504 |
| 4-4490 | 4-4750 | 0.567 | 202.0 | 74.6 | 25.17 | 1.248 | 98.9 | 0.583 | 2.338 | 335.7 | 492.9 | 0.975 | --- | -28.17 | 0.595 | 125.3 | 319.6 | -29.0 | 0.473 |
| 4-4490 | 4-4770 | 0.675 | 234.9 | 69.5 | 32.60 | 1.231 | 97.7 | 0.540 | 2.132 | 337.9 | 499.3 | 0.981 | --- | -35.12 | 0.559 | 120.8 | 315.3 | -35.6 | 0.475 |
| 4-4490 | 4-4790 | 0.859 | 249.5 | 59.3 | 43.96 | 1.219 | 96.6 | 0.507 | 2.005 | 340.2 | 505.5 | 0.988 | --- | -46.02 | 0.532 | 116.3 | 308.2 | -41.0 | 0.523 |
| 4-4490 | 4-4810 | 1.147 | 255.0 | 45.8 | 61.78 | 1.210 | 95.4 | 0.483 | 1.922 | 343.3 | 511.4 | 0.994 | --- | -63.37 | 0.511 | 111.9 | 299.8 | -41.9 | 0.635 |
| 4-4490 | 4-4850 | 1.230 | 179.2 | -74.7 | -67.33 | 1.199 | 99.9 | 0.475 | 1.830 | 328.9 | 520.4 | 0.961 | --- | 66.66 | 0.483 | 106.0 | 301.3 | 41.7 | 0.641 |
| 4-4490 | 4-4870 | 0.925 | 137.0 | -70.7 | -48.46 | 1.196 | 99.1 | 0.465 | 1.806 | 330.9 | 525.1 | 0.967 | --- | 48.25 | 0.474 | 102.2 | 305.6 | 44.9 | 0.490 |
| 4-4490 | 4-4890 | 0.722 | 121.8 | -62.6 | -36.39 | 1.195 | 98.9 | 0.459 | 1.792 | 331.5 | 529.4 | 0.969 | --- | 36.63 | 0.467 | 98.8 | 307.2 | 44.7 | 0.391 |
| 4-4490 | 4-4910 | 0.590 | 116.7 | -54.8 | -28.55 | 1.194 | 98.9 | 0.457 | 1.784 | 331.2 | 533.2 | 0.969 | --- | 29.26 | 0.462 | 95.6 | 306.6 | 42.9 | 0.330 |
| 4-4490 | 4-4930 | 0.504 | 115.4 | -47.6 | -23.18 | 1.193 | 99.2 | 0.458 | 1.781 | 330.4 | 536.8 | 0.966 | --- | 24.35 | 0.458 | 92.7 | 305.0 | 40.3 | 0.292 |
| 4-4490 | 4-4950 | 0.446 | 115.8 | -40.9 | -19.28 | 1.193 | 99.6 | 0.460 | 1.783 | 329.2 | 540.0 | 0.963 | 2.603 | 20.93 | 0.455 | 90.0 | 303.2 | 37.2 | 0.269 |
| 4-4490 | 4-4970 | 0.407 | 117.1 | -34.5 | -16.32 | 1.194 | 100.1 | 0.464 | 1.787 | 327.6 | 542.9 | 0.958 | 2.617 | 18.45 | 0.453 | 87.5 | 301.6 | 34.1 | 0.256 |
| 4-4490 | 4-4990 | 0.381 | 119.1 | -28.5 | -13.97 | 1.195 | 100.8 | 0.470 | 1.794 | 325.7 | 545.6 | 0.952 | 2.637 | 16.58 | 0.452 | 85.1 | 300.5 | 31.1 | 0.249 |
| 4-4490 | 4-5010 | 0.366 | 121.5 | -22.8 | -12.05 | 1.196 | 101.5 | 0.476 | 1.803 | 323.6 | 548.0 | 0.944 | 2.662 | 15.16 | 0.451 | 82.8 | 300.0 | 28.2 | 0.248 |
| 4-4490 | 4-5030 | 0.358 | 124.3 | -17.6 | -10.43 | 1.197 | 102.4 | 0.484 | 1.813 | 321.3 | 550.3 | 0.935 | 2.691 | 14.05 | 0.450 | 80.6 | 300.1 | 25.6 | 0.249 |
| 4-4490 | 4-5050 | 0.357 | 127.2 | -12.9 | -9.03 | 1.199 | 103.3 | 0.493 | 1.825 | 318.8 | 552.3 | 0.925 | 2.725 | 13.17 | 0.450 | 78.6 | 300.8 | 23.3 | 0.254 |
| 4-4490 | 4-5070 | 0.361 | 130.3 | -8.6 | -7.80 | 1.200 | 104.3 | 0.503 | 1.838 | 316.2 | 554.1 | 0.914 | 2.762 | 12.48 | 0.449 | 76.6 | 302.0 | 21.3 | 0.260 |
| 4-4490 | 4-5090 | 0.369 | 133.4 | -4.9 | -6.70 | 1.202 | 105.4 | 0.514 | 1.851 | 313.4 | 555.7 | 0.900 | 2.802 | 11.93 | 0.449 | 74.6 | 303.6 | 19.6 | 0.267 |
| 4-4490 | 4-5110 | 0.381 | 136.5 | -1.6 | -5.69 | 1.204 | 106.6 | 0.525 | 1.865 | 310.5 | 557.2 | 0.886 | 2.845 | 11.50 | 0.449 | 72.7 | 305.5 | 18.1 | 0.276 |
| 4-4490 | 4-5130 | 0.397 | 139.6 | 1.1 | -4.76 | 1.205 | 107.8 | 0.537 | 1.880 | 307.5 | 558.5 | 0.870 | 2.890 | 11.16 | 0.449 | 70.8 | 307.8 | 16.8 | 0.285 |
| 4-4490 | 4-5150 | 0.415 | 142.6 | 3.4 | -3.89 | 1.207 | 109.1 | 0.551 | 1.895 | 304.3 | 559.7 | 0.852 | 2.938 | 10.91 | 0.449 | 68.9 | 310.3 | 15.6 | 0.294 |
| 4-4490 | 4-5170 | 0.436 | 145.6 | 5.3 | -3.06 | 1.209 | 110.5 | 0.565 | 1.911 | 301.1 | 560.8 | 0.832 | 2.989 | 10.73 | 0.449 | 67.0 | 313.0 | 14.6 | 0.305 |
| 4-4490 | 4-5190 | 0.459 | 148.5 | 6.9 | -2.26 | 1.211 | 112.0 | 0.579 | 1.926 | 297.8 | 561.7 | 0.811 | 3.042 | 10.61 | 0.450 | 65.2 | 315.9 | 13.8 | 0.315 |
| 4-4490 | 4-5210 | 0.484 | 151.3 | 8.1 | -1.48 | 1.213 | 113.5 | 0.595 | 1.943 | 294.4 | 562.4 | 0.787 | 3.098 | 10.56 | 0.450 | 63.3 | 319.0 | 13.0 | 0.327 |
| 4-4490 | 4-5230 | 0.512 | 154.1 | 9.1 | -0.71 | 1.214 | 115.1 | 0.611 | 1.959 | 291.0 | 563.1 | 0.762 | 3.156 | 10.56 | 0.450 | 61.3 | 322.2 | 12.4 | 0.338 |
| 4-4490 | 4-5250 | 0.541 | 156.7 | 9.8 | 0.05 | 1.216 | 116.8 | 0.628 | 1.976 | 287.4 | 563.6 | 0.735 | 3.216 | 10.61 | 0.451 | 59.4 | 325.6 | 11.8 | 0.350 |
| 4-4500 | 4-4660 | 0.578 | 133.3 | 40.4 | 8.73 | 1.468 | 104.1 | 1.156 | -6.083 | 333.7 | 460.4 | 0.949 | --- | -13.24 | 0.969 | 145.1 | 322.3 | -8.7 | 0.834 |
| 4-4500 | 4-4680 | 0.501 | 134.6 | 47.3 | 10.23 | 1.391 | 102.0 | 0.947 | 18.022 | 335.3 | 466.8 | 0.960 | --- | -14.19 | 0.849 | 141.3 | 323.7 | -10.6 | 0.707 |
| 4-4500 | 4-4700 | 0.455 | 136.9 | 55.3 | 11.98 | 1.336 | 100.1 | 0.801 | 4.868 | 337.3 | 473.6 | 0.970 | --- | -15.41 | 0.757 | 137.2 | 324.7 | -13.0 | 0.606 |
| 4-4500 | 4-4720 | 0.435 | 141.7 | 64.0 | 14.07 | 1.296 | 98.4 | 0.697 | 3.226 | 339.4 | 480.4 | 0.978 | --- | -16.98 | 0.686 | 132.9 | 325.2 | -16.1 | 0.528 |
| 4-4500 | 4-4740 | 0.440 | 153.2 | 72.3 | 16.66 | 1.267 | 97.1 | 0.622 | 2.603 | 341.5 | 487.2 | 0.985 | --- | -19.05 | 0.630 | 128.4 | 324.9 | -20.1 | 0.468 |
| 4-4500 | 4-4760 | 0.470 | 181.8 | 78.1 | 19.96 | 1.246 | 96.0 | 0.567 | 2.287 | 343.5 | 494.0 | 0.990 | --- | -21.86 | 0.587 | 124.0 | 323.7 | -25.1 | 0.427 |
| 4-4500 | 4-4780 | 0.528 | 225.7 | 77.5 | 24.37 | 1.231 | 95.0 | 0.527 | 2.103 | 345.4 | 500.4 | 0.994 | --- | -25.78 | 0.554 | 119.5 | 321.1 | -31.1 | 0.406 |
| 4-4500 | 4-4800 | 0.625 | 250.1 | 71.0 | 30.55 | 1.220 | 94.3 | 0.499 | 1.988 | 347.2 | 506.6 | 0.997 | --- | -31.49 | 0.528 | 115.2 | 316.8 | -37.3 | 0.412 |
| 4-4500 | 4-4820 | 0.778 | 259.7 | 61.8 | 39.75 | 1.211 | 93.6 | 0.478 | 1.913 | 348.9 | 512.4 | 0.999 | --- | -40.22 | 0.508 | 111.0 | 310.8 | -42.5 | 0.454 |
| 4-4500 | 4-4840 | 1.018 | 263.7 | 50.2 | 54.08 | 1.206 | 92.8 | 0.463 | 1.863 | 351.0 | 517.9 | 1.001 | --- | -54.08 | 0.493 | 106.9 | 304.0 | -44.2 | 0.548 |
| 4-4500 | 4-4900 | 1.036 | 146.0 | -79.1 | -55.27 | 1.198 | 97.1 | 0.455 | 1.797 | 337.0 | 529.7 | 0.980 | --- | 56.65 | 0.468 | 98.4 | 305.8 | 44.7 | 0.550 |
| 4-4500 | 4-4920 | 0.783 | 119.8 | -69.6 | -40.21 | 1.197 | 96.9 | 0.452 | 1.792 | 337.7 | 533.6 | 0.982 | --- | 42.04 | 0.463 | 95.2 | 307.2 | 46.0 | 0.430 |
| 4-4500 | 4-4940 | 0.618 | 114.6 | -60.5 | -30.56 | 1.197 | 97.0 | 0.452 | 1.791 | 337.3 | 537.1 | 0.981 | --- | 32.85 | 0.460 | 92.4 | 306.7 | 44.6 | 0.355 |
| 4-4500 | 4-4960 | 0.512 | 114.1 | -52.3 | -24.11 | 1.197 | 97.3 | 0.454 | 1.793 | 336.3 | 540.3 | 0.978 | 2.608 | 26.86 | 0.457 | 89.7 | 305.3 | 41.9 | 0.310 |
| 4-4500 | 4-4980 | 0.441 | 115.5 | -44.7 | -19.56 | 1.198 | 97.8 | 0.458 | 1.799 | 334.8 | 543.2 | 0.975 | 2.623 | 22.77 | 0.456 | 87.3 | 303.9 | 38.6 | 0.282 |
| 4-4500 | 4-5000 | 0.394 | 117.8 | -37.5 | -16.17 | 1.199 | 98.5 | 0.463 | 1.807 | 333.0 | 545.8 | 0.970 | 2.643 | 19.85 | 0.454 | 85.1 | 302.9 | 35.2 | 0.267 |
| 4-4500 | 4-5020 | 0.363 | 120.7 | -30.7 | -13.53 | 1.200 | 99.2 | 0.469 | 1.817 | 331.0 | 548.2 | 0.965 | 2.669 | 17.68 | 0.454 | 82.9 | 302.4 | 31.9 | 0.259 |
| 4-4500 | 4-5040 | 0.345 | 124.0 | -24.3 | -11.41 | 1.201 | 100.0 | 0.476 | 1.828 | 328.7 | 550.3 | 0.958 | 2.698 | 16.04 | 0.453 | 80.9 | 302.5 | 28.9 | 0.256 |
| 4-4500 | 4-5060 | 0.335 | 127.5 | -18.5 | -9.64 | 1.203 | 100.9 | 0.484 | 1.840 | 326.2 | 552.3 | 0.950 | 2.730 | 14.77 | 0.452 | 78.9 | 303.2 | 26.2 | 0.257 |
| 4-4500 | 4-5080 | 0.333 | 131.2 | -13.2 | -8.14 | 1.204 | 101.8 | 0.493 | 1.853 | 323.6 | 554.1 | 0.940 | 2.766 | 13.77 | 0.452 | 77.1 | 304.3 | 23.8 | 0.260 |
| 4-4500 | 4-5100 | 0.336 | 135.0 | -8.6 | -6.83 | 1.206 | 102.9 | 0.502 | 1.867 | 320.8 | 555.7 | 0.929 | 2.804 | 12.98 | 0.452 | 75.3 | 305.9 | 21.7 | 0.265 |
| 4-4500 | 4-5120 | 0.344 | 138.7 | -4.6 | -5.67 | 1.208 | 104.0 | 0.512 | 1.881 | 318.0 | 557.2 | 0.917 | 2.846 | 12.34 | 0.452 | 73.5 | 307.8 | 20.0 | 0.271 |
| 4-4500 | 4-5140 | 0.357 | 142.3 | -1.3 | -4.62 | 1.210 | 105.1 | 0.523 | 1.897 | 315.0 | 558.5 | 0.904 | 2.889 | 11.84 | 0.452 | 71.7 | 310.0 | 18.4 | 0.279 |
| 4-4500 | 4-5160 | 0.372 | 145.9 | 1.5 | -3.66 | 1.211 | 106.3 | 0.535 | 1.912 | 311.9 | 559.7 | 0.889 | 2.935 | 11.44 | 0.452 | 70.0 | 312.4 | 17.1 | 0.287 |
| 4-4500 | 4-5180 | 0.390 | 149.3 | 3.8 | -2.76 | 1.213 | 107.6 | 0.548 | 1.928 | 308.8 | 560.8 | 0.872 | 2.983 | 11.13 | 0.452 | 68.3 | 315.1 | 15.9 | 0.295 |
| 4-4500 | 4-5200 | 0.411 | 152.6 | 5.6 | -1.92 | 1.215 | 109.0 | 0.561 | 1.944 | 305.6 | 561.8 | 0.854 | 3.034 | 10.90 | 0.452 | 66.6 | 318.0 | 15.0 | 0.304 |
| 4-4500 | 4-5220 | 0.434 | 155.7 | 7.0 | -1.11 | 1.217 | 110.4 | 0.574 | 1.960 | 302.3 | 562.6 | 0.834 | 3.086 | 10.74 | 0.453 | 64.8 | 321.0 | 14.1 | 0.314 |
| 4-4500 | 4-5240 | 0.458 | 158.7 | 8.1 | -0.33 | 1.218 | 111.9 | 0.589 | 1.976 | 298.9 | 563.3 | 0.813 | 3.140 | 10.63 | 0.453 | 63.1 | 324.1 | 13.3 | 0.324 |
| 4-4500 | 4-5260 | 0.485 | 161.6 | 8.9 | 0.43 | 1.220 | 113.4 | 0.604 | 1.993 | 295.5 | 563.9 | 0.789 | 3.197 | 10.59 | 0.454 | 61.3 | 327.4 | 12.7 | 0.334 |
| 4-4510 | 4-4650 | 0.624 | 132.8 | 36.4 | 7.31 | 1.553 | 101.9 | 1.401 | -2.408 | 339.6 | 454.3 | 0.966 | --- | -11.35 | 1.090 | 147.3 | 323.2 | -7.0 | 0.952 |
| 4-4510 | 4-4670 | 0.519 | 132.9 | 42.3 | 8.41 | 1.450 | 99.8 | 1.104 | -9.366 | 341.3 | 460.7 | 0.974 | --- | -11.85 | 0.939 | 143.8 | 324.7 | -8.3 | 0.794 |
| 4-4510 | 4-4690 | 0.451 | 132.8 | 49.4 | 9.64 | 1.378 | 97.9 | 0.905 | 10.349 | 343.3 | 467.5 | 0.982 | --- | -12.50 | 0.825 | 139.9 | 325.9 | -9.9 | 0.671 |
| 4-4510 | 4-4710 | 0.410 | 132.8 | 57.3 | 11.02 | 1.327 | 96.3 | 0.767 | 4.249 | 345.5 | 474.6 | 0.988 | --- | -13.32 | 0.738 | 135.7 | 326.8 | -11.9 | 0.574 |
| 4-4510 | 4-4730 | 0.391 | 133.9 | 65.6 | 12.61 | 1.290 | 94.9 | 0.670 | 3.012 | 347.8 | 481.7 | 0.993 | --- | -14.38 | 0.670 | 131.4 | 327.3 | -14.6 | 0.497 |
| 4-4510 | 4-4750 | 0.391 | 138.0 | 73.6 | 14.48 | 1.263 | 93.7 | 0.601 | 2.498 | 350.1 | 488.8 | 0.996 | --- | -15.73 | 0.617 | 126.9 | 327.2 | -17.9 | 0.436 |
| 4-4510 | 4-4770 | 0.409 | 152.9 | 80.8 | 16.75 | 1.244 | 92.8 | 0.551 | 2.226 | 352.1 | 495.6 | 0.999 | --- | -17.50 | 0.577 | 122.5 | 326.2 | -22.0 | 0.391 |
| 4-4510 | 4-4790 | 0.443 | 206.5 | 84.2 | 19.61 | 1.230 | 92.1 | 0.516 | 2.066 | 353.9 | 502.1 | 1.000 | --- | -19.87 | 0.546 | 118.1 | 324.4 | -26.9 | 0.361 |
| 4-4510 | 4-4810 | 0.498 | 253.1 | 80.1 | 23.33 | 1.219 | 91.5 | 0.490 | 1.964 | 355.4 | 508.3 | 1.001 | --- | -23.12 | 0.522 | 113.9 | 321.3 | -32.6 | 0.348 |
| 4-4510 | 4-4830 | 0.581 | 265.9 | 73.1 | 28.43 | 1.212 | 91.1 | 0.472 | 1.898 | 356.5 | 513.9 | 1.002 | --- | -27.75 | 0.504 | 109.8 | 317.1 | -38.3 | 0.356 |
| 4-4510 | 4-4850 | 0.706 | 270.3 | 65.0 | 35.81 | 1.207 | 90.8 | 0.460 | 1.855 | 357.5 | 519.2 | 1.002 | --- | -34.67 | 0.490 | 106.0 | 311.9 | -43.1 | 0.392 |
| 4-4510 | 4-4870 | 0.900 | 272.3 | 55.1 | 47.13 | 1.204 | 90.4 | 0.451 | 1.826 | 358.6 | 524.1 | 1.002 | --- | -45.53 | 0.480 | 102.3 | 306.8 | -45.6 | 0.469 |
| 4-4510 | 4-4890 | 1.193 | 273.6 | 42.4 | 64.92 | 1.201 | 89.9 | 0.446 | 1.809 | 0.4 | 168.8 | --- | --- | -62.88 | 0.473 | 98.8 | 303.5 | -43.8 | 0.601 |
| 4-4510 | 4-4930 | 1.177 | 192.4 | -87.1 | -63.98 | 1.200 | 95.3 | 0.450 | 1.796 | 342.8 | 534.1 | 0.988 | --- | 66.91 | 0.463 | 94.8 | 307.9 | 42.8 | 0.625 |
| 4-4510 | 4-4950 | 0.864 | 111.9 | -76.3 | -45.03 | 1.200 | 95.0 | 0.449 | 1.797 | 343.8 | 537.6 | 0.990 | --- | 48.40 | 0.460 | 91.9 | 308.8 | 46.0 | 0.478 |
| 4-4510 | 4-4970 | 0.656 | 109.5 | -65.4 | -32.94 | 1.200 | 95.1 | 0.451 | 1.802 | 343.4 | 540.8 | 0.989 | 2.614 | 36.74 | 0.458 | 89.4 | 308.0 | 45.4 | 0.385 |
| 4-4510 | 4-4990 | 0.524 | 111.2 | -56.1 | -25.11 | 1.201 | 95.5 | 0.454 | 1.809 | 342.2 | 543.6 | 0.987 | 2.630 | 29.36 | 0.457 | 87.0 | 306.7 | 42.8 | 0.329 |
| 4-4510 | 4-5010 | 0.438 | 114.1 | -47.6 | -19.76 | 1.202 | 96.1 | 0.459 | 1.818 | 340.5 | 546.1 | 0.984 | 2.651 | 24.44 | 0.456 | 84.9 | 305.5 | 39.3 | 0.296 |
| 4-4510 | 4-5030 | 0.382 | 117.7 | -39.6 | -15.88 | 1.204 | 96.8 | 0.464 | 1.828 | 338.5 | 548.4 | 0.980 | 2.676 | 21.01 | 0.455 | 82.8 | 304.9 | 35.7 | 0.278 |
| 4-4510 | 4-5050 | 0.346 | 121.7 | -32.1 | -12.94 | 1.205 | 97.5 | 0.470 | 1.840 | 336.2 | 550.5 | 0.975 | 2.705 | 18.52 | 0.455 | 80.9 | 304.9 | 32.2 | 0.268 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4510 | 4-5070 | 0.324 | 126.0 | -25.0 | -10.61 | 1.207 | 98.4 | 0.477 | 1.853 | 333.8 | 552.4 | 0.969 | 2.738 | 16.64 | 0.455 | 79.1 | 305.5 | 29.0 | 0.264 |
| 4-4510 | 4-5090 | 0.312 | 130.5 | -18.6 | -8.72 | 1.208 | 99.3 | 0.485 | 1.867 | 331.2 | 554.2 | 0.962 | 2.772 | 15.21 | 0.454 | 77.4 | 306.6 | 26.2 | 0.263 |
| 4-4510 | 4-5110 | 0.309 | 135.0 | -12.8 | -7.12 | 1.210 | 100.3 | 0.493 | 1.882 | 328.5 | 555.8 | 0.953 | 2.810 | 14.08 | 0.454 | 75.7 | 308.1 | 23.8 | 0.265 |
| 4-4510 | 4-5130 | 0.312 | 139.5 | -7.9 | -5.75 | 1.212 | 101.3 | 0.503 | 1.897 | 325.6 | 557.2 | 0.944 | 2.850 | 13.19 | 0.454 | 74.0 | 310.0 | 21.7 | 0.269 |
| 4-4510 | 4-5150 | 0.320 | 143.9 | -3.7 | -4.54 | 1.214 | 102.4 | 0.512 | 1.912 | 322.7 | 558.6 | 0.933 | 2.892 | 12.48 | 0.454 | 72.4 | 312.1 | 19.9 | 0.275 |
| 4-4510 | 4-5170 | 0.332 | 148.1 | -0.3 | -3.47 | 1.215 | 103.6 | 0.523 | 1.928 | 319.7 | 559.8 | 0.920 | 2.935 | 11.91 | 0.455 | 70.8 | 314.5 | 18.4 | 0.281 |
| 4-4510 | 4-5190 | 0.348 | 152.1 | 2.4 | -2.49 | 1.217 | 104.8 | 0.534 | 1.944 | 316.6 | 560.9 | 0.907 | 2.981 | 11.45 | 0.455 | 69.2 | 317.1 | 17.1 | 0.288 |
| 4-4510 | 4-5210 | 0.366 | 155.9 | 4.6 | -1.59 | 1.219 | 106.1 | 0.545 | 1.960 | 313.4 | 561.9 | 0.891 | 3.029 | 11.09 | 0.455 | 67.7 | 319.9 | 15.9 | 0.295 |
| 4-4510 | 4-5230 | 0.387 | 159.5 | 6.2 | -0.75 | 1.221 | 107.4 | 0.557 | 1.977 | 310.2 | 562.7 | 0.875 | 3.079 | 10.81 | 0.455 | 66.1 | 322.9 | 14.9 | 0.303 |
| 4-4510 | 4-5250 | 0.409 | 162.8 | 7.4 | 0.05 | 1.222 | 108.8 | 0.570 | 1.993 | 306.9 | 563.5 | 0.857 | 3.130 | 10.59 | 0.456 | 64.5 | 325.9 | 14.1 | 0.311 |
| 4-4510 | 4-5270 | 0.433 | 166.0 | 8.3 | 0.81 | 1.224 | 110.2 | 0.584 | 2.010 | 303.6 | 564.2 | 0.837 | 3.183 | 10.44 | 0.456 | 62.9 | 329.1 | 13.3 | 0.320 |
| 4-4520 | 4-4660 | 0.564 | 131.0 | 38.9 | 7.32 | 1.526 | 97.0 | 1.322 | -3.060 | 347.7 | 454.9 | 0.986 | --- | -10.18 | 1.049 | 146.1 | 325.3 | -6.6 | 0.902 |
| 4-4520 | 4-4680 | 0.471 | 129.4 | 45.2 | 8.26 | 1.430 | 95.3 | 1.044 | 22.476 | 349.7 | 461.8 | 0.991 | --- | -10.50 | 0.906 | 142.4 | 326.6 | -7.7 | 0.752 |
| 4-4520 | 4-4700 | 0.413 | 127.0 | 52.3 | 9.26 | 1.364 | 93.7 | 0.859 | 7.054 | 352.1 | 469.0 | 0.995 | --- | -10.92 | 0.798 | 138.4 | 327.8 | -9.1 | 0.634 |
| 4-4520 | 4-4720 | 0.379 | 123.7 | 59.7 | 10.37 | 1.316 | 92.3 | 0.732 | 3.723 | 354.6 | 476.5 | 0.997 | --- | -11.46 | 0.715 | 134.2 | 328.5 | -10.9 | 0.541 |
| 4-4520 | 4-4740 | 0.363 | 119.7 | 67.1 | 11.60 | 1.283 | 91.1 | 0.644 | 2.802 | 357.2 | 483.9 | 0.999 | --- | -12.16 | 0.651 | 129.8 | 328.9 | -13.1 | 0.466 |
| 4-4520 | 4-4760 | 0.362 | 115.0 | 74.0 | 13.01 | 1.258 | 90.2 | 0.581 | 2.387 | 359.6 | 491.1 | 0.999 | --- | -13.04 | 0.602 | 125.3 | 328.6 | -15.8 | 0.407 |
| 4-4520 | 4-4780 | 0.373 | 109.4 | 80.3 | 14.64 | 1.240 | 89.4 | 0.537 | 2.159 | 1.6 | 138.0 | --- | --- | -14.18 | 0.565 | 120.9 | 327.7 | -19.2 | 0.361 |
| 4-4520 | 4-4800 | 0.394 | 99.0 | 86.2 | 16.60 | 1.228 | 88.9 | 0.506 | 2.022 | 3.2 | 144.5 | --- | --- | -15.65 | 0.536 | 116.6 | 326.0 | -23.2 | 0.328 |
| 4-4520 | 4-4820 | 0.427 | 305.8 | 87.9 | 19.01 | 1.219 | 88.5 | 0.484 | 1.935 | 4.4 | 150.5 | --- | --- | -17.60 | 0.514 | 112.4 | 323.3 | -27.9 | 0.307 |
| 4-4520 | 4-4840 | 0.475 | 288.7 | 82.2 | 22.09 | 1.212 | 88.3 | 0.469 | 1.878 | 5.2 | 156.0 | --- | --- | -20.23 | 0.498 | 108.4 | 319.9 | -33.1 | 0.299 |
| 4-4520 | 4-4860 | 0.542 | 284.3 | 76.0 | 26.21 | 1.208 | 88.2 | 0.458 | 1.842 | 5.7 | 161.0 | --- | --- | -23.90 | 0.486 | 104.7 | 315.8 | -38.2 | 0.308 |
| 4-4520 | 4-4880 | 0.641 | 282.1 | 69.1 | 32.02 | 1.205 | 88.2 | 0.451 | 1.819 | 5.8 | 165.6 | --- | --- | -29.28 | 0.477 | 101.3 | 311.6 | -42.7 | 0.337 |
| 4-4520 | 4-4900 | 0.792 | 281.2 | 60.7 | 40.75 | 1.203 | 88.2 | 0.447 | 1.805 | 5.9 | 169.8 | --- | --- | -37.58 | 0.470 | 98.0 | 308.1 | -45.7 | 0.397 |
| 4-4520 | 4-4920 | 1.028 | 281.4 | 50.0 | 54.61 | 1.202 | 88.0 | 0.446 | 1.799 | 6.3 | 173.8 | --- | --- | -51.02 | 0.466 | 94.9 | 306.4 | -45.9 | 0.502 |
| 4-4520 | 4-4980 | 0.978 | 84.4 | -82.0 | -51.70 | 1.203 | 93.2 | 0.450 | 1.807 | 349.6 | 541.3 | 0.994 | 2.620 | 56.52 | 0.458 | 88.9 | 312.1 | 45.0 | 0.541 |
| 4-4520 | 4-5000 | 0.710 | 100.3 | -69.5 | -36.06 | 1.205 | 93.3 | 0.453 | 1.816 | 349.3 | 544.1 | 0.994 | 2.638 | 41.29 | 0.457 | 86.6 | 310.7 | 45.7 | 0.421 |
| 4-4520 | 4-5020 | 0.543 | 106.5 | -59.0 | -26.31 | 1.206 | 93.8 | 0.457 | 1.826 | 348.0 | 546.6 | 0.992 | 2.660 | 31.94 | 0.457 | 84.5 | 309.1 | 43.3 | 0.351 |
| 4-4520 | 4-5040 | 0.437 | 111.7 | -49.6 | -19.93 | 1.207 | 94.4 | 0.461 | 1.838 | 346.2 | 548.8 | 0.990 | 2.686 | 25.96 | 0.456 | 82.6 | 307.9 | 39.7 | 0.310 |
| 4-4520 | 4-5060 | 0.370 | 116.9 | -40.8 | -15.47 | 1.209 | 95.1 | 0.467 | 1.851 | 344.0 | 550.9 | 0.987 | 2.715 | 21.92 | 0.456 | 80.8 | 307.6 | 35.7 | 0.288 |
| 4-4520 | 4-5080 | 0.328 | 122.2 | -32.4 | -12.19 | 1.211 | 95.9 | 0.473 | 1.865 | 341.6 | 552.7 | 0.983 | 2.747 | 19.05 | 0.456 | 79.1 | 307.9 | 32.0 | 0.275 |
| 4-4520 | 4-5100 | 0.302 | 127.7 | -24.6 | -9.66 | 1.212 | 96.8 | 0.480 | 1.879 | 339.0 | 554.4 | 0.978 | 2.781 | 16.93 | 0.456 | 77.4 | 308.8 | 28.7 | 0.270 |
| 4-4520 | 4-5120 | 0.289 | 133.2 | -17.5 | -7.63 | 1.214 | 97.7 | 0.487 | 1.895 | 336.3 | 556.0 | 0.972 | 2.818 | 15.32 | 0.456 | 75.8 | 310.2 | 25.8 | 0.268 |
| 4-4520 | 4-5140 | 0.286 | 138.7 | -11.3 | -5.96 | 1.216 | 98.7 | 0.495 | 1.910 | 333.4 | 557.4 | 0.964 | 2.856 | 14.07 | 0.456 | 74.3 | 312.0 | 23.4 | 0.269 |
| 4-4520 | 4-5160 | 0.289 | 144.0 | -6.0 | -4.54 | 1.218 | 99.8 | 0.504 | 1.926 | 330.5 | 558.7 | 0.956 | 2.897 | 13.09 | 0.456 | 72.8 | 314.1 | 21.3 | 0.272 |
| 4-4520 | 4-5180 | 0.297 | 149.0 | -1.8 | -3.31 | 1.219 | 100.9 | 0.513 | 1.943 | 327.5 | 559.9 | 0.946 | 2.939 | 12.30 | 0.457 | 71.4 | 316.5 | 19.5 | 0.277 |
| 4-4520 | 4-5200 | 0.310 | 153.8 | 1.6 | -2.23 | 1.221 | 102.0 | 0.523 | 1.959 | 324.4 | 561.0 | 0.935 | 2.983 | 11.67 | 0.457 | 69.9 | 319.1 | 17.9 | 0.282 |
| 4-4520 | 4-5220 | 0.325 | 158.3 | 4.2 | -1.25 | 1.223 | 103.2 | 0.533 | 1.976 | 321.3 | 562.0 | 0.923 | 3.028 | 11.17 | 0.457 | 68.5 | 321.8 | 16.6 | 0.288 |
| 4-4520 | 4-5240 | 0.344 | 162.5 | 6.1 | -0.36 | 1.225 | 104.5 | 0.544 | 1.992 | 318.1 | 562.9 | 0.909 | 3.076 | 10.76 | 0.458 | 67.0 | 324.7 | 15.5 | 0.294 |
| 4-4520 | 4-5260 | 0.364 | 166.4 | 7.4 | 0.46 | 1.226 | 105.8 | 0.555 | 2.009 | 314.9 | 563.7 | 0.894 | 3.124 | 10.43 | 0.458 | 65.6 | 327.7 | 14.5 | 0.301 |
| 4-4520 | 4-5280 | 0.386 | 170.0 | 8.4 | 1.23 | 1.228 | 107.1 | 0.567 | 2.026 | 311.6 | 564.5 | 0.878 | 3.174 | 10.18 | 0.459 | 64.1 | 330.8 | 13.7 | 0.309 |
| 4-4530 | 4-4650 | 0.642 | 128.3 | 36.4 | 6.67 | 1.626 | 93.4 | 1.633 | -1.568 | 354.6 | 449.6 | 0.994 | --- | -8.88 | 1.188 | 148.2 | 325.8 | -5.3 | 1.039 |
| 4-4530 | 4-4670 | 0.519 | 125.8 | 41.9 | 7.43 | 1.497 | 91.9 | 1.233 | -4.275 | 356.6 | 456.4 | 0.995 | --- | -8.98 | 1.005 | 144.9 | 327.1 | -6.1 | 0.851 |
| 4-4530 | 4-4690 | 0.440 | 121.8 | 48.2 | 8.23 | 1.409 | 90.5 | 0.979 | 46.479 | 359.1 | 463.8 | 0.996 | --- | -9.15 | 0.870 | 141.1 | 328.2 | -7.0 | 0.708 |
| 4-4530 | 4-4710 | 0.392 | 116.2 | 54.6 | 9.06 | 1.348 | 89.2 | 0.810 | 5.256 | 1.9 | 111.5 | --- | --- | -9.39 | 0.767 | 137.0 | 329.1 | -8.2 | 0.596 |
| 4-4530 | 4-4730 | 0.365 | 109.2 | 60.8 | 9.95 | 1.305 | 88.0 | 0.697 | 3.280 | 4.8 | 119.3 | --- | --- | -9.73 | 0.690 | 132.7 | 329.7 | -9.7 | 0.508 |
| 4-4530 | 4-4750 | 0.354 | 100.8 | 66.2 | 10.92 | 1.274 | 87.1 | 0.618 | 2.602 | 7.5 | 127.0 | --- | --- | -10.17 | 0.630 | 128.2 | 329.7 | -11.6 | 0.436 |
| 4-4530 | 4-4770 | 0.352 | 91.3 | 70.9 | 11.99 | 1.252 | 86.4 | 0.564 | 2.273 | 10.0 | 134.3 | --- | --- | -10.73 | 0.585 | 123.7 | 329.3 | -13.8 | 0.379 |
| 4-4530 | 4-4790 | 0.359 | 80.4 | 74.9 | 13.19 | 1.236 | 85.9 | 0.526 | 2.087 | 11.9 | 141.2 | --- | --- | -11.45 | 0.550 | 119.2 | 328.1 | -16.6 | 0.335 |
| 4-4530 | 4-4810 | 0.372 | 67.2 | 78.4 | 14.57 | 1.225 | 85.6 | 0.499 | 1.973 | 13.4 | 147.5 | --- | --- | -12.37 | 0.524 | 114.9 | 326.3 | -19.8 | 0.301 |
| 4-4530 | 4-4830 | 0.392 | 48.1 | 81.4 | 16.20 | 1.217 | 85.4 | 0.481 | 1.900 | 14.3 | 153.3 | --- | --- | -13.55 | 0.505 | 110.7 | 323.7 | -23.5 | 0.277 |
| 4-4530 | 4-4850 | 0.419 | 16.4 | 83.3 | 18.17 | 1.212 | 85.3 | 0.468 | 1.854 | 14.7 | 158.5 | --- | --- | -15.10 | 0.490 | 106.9 | 320.4 | -27.7 | 0.263 |
| 4-4530 | 4-4870 | 0.456 | 336.5 | 82.7 | 20.65 | 1.208 | 85.4 | 0.459 | 1.824 | 14.7 | 163.3 | --- | --- | -17.16 | 0.480 | 103.3 | 316.8 | -32.0 | 0.260 |
| 4-4530 | 4-4890 | 0.508 | 310.3 | 79.2 | 23.89 | 1.206 | 85.5 | 0.454 | 1.807 | 14.3 | 167.6 | --- | --- | -19.99 | 0.472 | 99.9 | 313.1 | -36.4 | 0.268 |
| 4-4530 | 4-4910 | 0.582 | 297.5 | 74.0 | 28.34 | 1.205 | 85.8 | 0.451 | 1.798 | 13.6 | 171.5 | --- | --- | -24.05 | 0.466 | 96.9 | 309.9 | -40.5 | 0.291 |
| 4-4530 | 4-4930 | 0.694 | 291.4 | 67.2 | 34.84 | 1.204 | 86.0 | 0.449 | 1.795 | 12.8 | 175.0 | --- | --- | -30.17 | 0.463 | 94.0 | 307.7 | -43.9 | 0.334 |
| 4-4530 | 4-4950 | 0.870 | 289.1 | 58.3 | 45.07 | 1.205 | 86.2 | 0.449 | 1.797 | 12.1 | 178.3 | --- | --- | -40.01 | 0.460 | 91.4 | 307.5 | -46.0 | 0.411 |
| 4-4530 | 4-4970 | 1.154 | 289.4 | 46.0 | 62.09 | 1.205 | 86.3 | 0.451 | 1.802 | 12.0 | 181.4 | --- | 2.615 | -56.66 | 0.458 | 88.8 | 309.8 | -44.8 | 0.543 |
| 4-4530 | 4-5010 | 1.149 | 18.6 | -81.4 | -61.80 | 1.208 | 91.5 | 0.453 | 1.820 | 355.1 | 544.6 | 0.995 | 2.645 | 67.96 | 0.457 | 86.2 | 317.1 | 42.4 | 0.627 |
| 4-4530 | 4-5030 | 0.793 | 84.9 | -72.7 | -40.67 | 1.209 | 91.5 | 0.457 | 1.832 | 355.1 | 547.2 | 0.995 | 2.669 | 47.19 | 0.457 | 84.0 | 314.9 | 45.4 | 0.468 |
| 4-4530 | 4-5050 | 0.572 | 100.3 | -61.2 | -27.96 | 1.211 | 92.0 | 0.461 | 1.845 | 353.8 | 549.4 | 0.995 | 2.696 | 34.85 | 0.456 | 82.1 | 312.4 | 43.6 | 0.375 |
| 4-4530 | 4-5070 | 0.439 | 108.8 | -50.7 | -20.12 | 1.212 | 92.6 | 0.466 | 1.860 | 351.8 | 551.4 | 0.993 | 2.726 | 27.37 | 0.457 | 80.4 | 311.0 | 39.7 | 0.324 |
| 4-4530 | 4-5090 | 0.359 | 115.9 | -40.9 | -14.93 | 1.214 | 93.4 | 0.471 | 1.874 | 349.5 | 553.1 | 0.991 | 2.758 | 22.54 | 0.457 | 78.8 | 310.7 | 35.4 | 0.296 |
| 4-4530 | 4-5110 | 0.310 | 122.6 | -31.5 | -11.26 | 1.216 | 94.2 | 0.477 | 1.890 | 346.9 | 554.8 | 0.988 | 2.792 | 19.23 | 0.457 | 77.3 | 311.2 | 31.4 | 0.281 |
| 4-4530 | 4-5130 | 0.281 | 129.3 | -22.7 | -8.51 | 1.218 | 95.1 | 0.484 | 1.906 | 344.2 | 556.3 | 0.984 | 2.828 | 16.84 | 0.457 | 75.8 | 312.4 | 27.9 | 0.274 |
| 4-4530 | 4-5150 | 0.268 | 135.9 | -14.8 | -6.37 | 1.220 | 96.1 | 0.491 | 1.922 | 341.4 | 557.6 | 0.979 | 2.866 | 15.07 | 0.458 | 74.4 | 314.0 | 24.9 | 0.272 |
| 4-4530 | 4-5170 | 0.264 | 142.3 | -8.2 | -4.64 | 1.221 | 97.1 | 0.498 | 1.939 | 338.5 | 558.9 | 0.973 | 2.905 | 13.71 | 0.458 | 73.0 | 316.1 | 22.4 | 0.272 |
| 4-4530 | 4-5190 | 0.268 | 148.4 | -2.8 | -3.20 | 1.223 | 98.2 | 0.506 | 1.956 | 335.5 | 560.1 | 0.966 | 2.946 | 12.65 | 0.458 | 71.7 | 318.4 | 20.3 | 0.274 |
| 4-4530 | 4-5210 | 0.277 | 154.2 | 1.4 | -1.96 | 1.225 | 99.3 | 0.514 | 1.973 | 332.4 | 561.2 | 0.958 | 2.988 | 11.80 | 0.459 | 70.3 | 320.9 | 18.5 | 0.278 |
| 4-4530 | 4-5230 | 0.289 | 159.6 | 4.6 | -0.89 | 1.227 | 100.4 | 0.523 | 1.990 | 329.3 | 562.2 | 0.949 | 3.032 | 11.12 | 0.459 | 69.0 | 323.6 | 17.0 | 0.282 |
| 4-4530 | 4-5250 | 0.305 | 164.6 | 6.8 | 0.06 | 1.229 | 101.6 | 0.533 | 2.007 | 326.2 | 563.1 | 0.938 | 3.077 | 10.57 | 0.460 | 67.7 | 326.5 | 15.8 | 0.287 |
| 4-4530 | 4-5270 | 0.324 | 169.1 | 8.4 | 0.92 | 1.230 | 102.8 | 0.543 | 2.024 | 323.0 | 563.9 | 0.926 | 3.123 | 10.13 | 0.460 | 66.4 | 329.4 | 14.7 | 0.293 |
| 4-4530 | 4-5290 | 0.344 | 173.3 | 9.4 | 1.70 | 1.232 | 104.1 | 0.553 | 2.042 | 319.8 | 564.7 | 0.913 | 3.170 | 9.77 | 0.461 | 65.1 | 332.5 | 13.7 | 0.299 |
| 4-4540 | 4-4660 | 0.603 | 122.1 | 39.3 | 6.99 | 1.585 | 87.6 | 1.496 | -2.000 | 4.0 | 91.6 | --- | --- | -7.70 | 1.129 | 147.3 | 327.2 | -4.8 | 0.978 |
| 4-4540 | 4-4680 | 0.497 | 117.1 | 44.6 | 7.65 | 1.467 | 86.5 | 1.137 | -7.247 | 6.6 | 99.0 | --- | --- | -7.70 | 0.956 | 143.8 | 328.3 | -5.4 | 0.800 |
| 4-4540 | 4-4700 | 0.432 | 110.4 | 50.0 | 8.32 | 1.387 | 85.4 | 0.911 | 11.037 | 9.7 | 107.0 | --- | --- | -7.76 | 0.829 | 139.9 | 329.2 | -6.2 | 0.665 |
| 4-4540 | 4-4720 | 0.394 | 102.3 | 54.8 | 9.00 | 1.331 | 84.4 | 0.763 | 4.141 | 12.9 | 115.2 | --- | --- | -7.87 | 0.734 | 135.6 | 329.9 | -7.2 | 0.559 |
| 4-4540 | 4-4740 | 0.374 | 93.7 | 58.8 | 9.72 | 1.292 | 83.6 | 0.664 | 2.910 | 16.1 | 123.3 | --- | --- | -8.06 | 0.661 | 131.1 | 330.1 | -8.5 | 0.475 |
| 4-4540 | 4-4760 | 0.365 | 85.1 | 62.1 | 10.47 | 1.265 | 82.9 | 0.597 | 2.415 | 19.0 | 131.1 | --- | --- | -8.31 | 0.606 | 126.5 | 329.9 | -10.0 | 0.408 |
| 4-4540 | 4-4780 | 0.363 | 77.2 | 64.8 | 11.28 | 1.245 | 82.5 | 0.551 | 2.160 | 21.3 | 138.4 | --- | --- | -8.65 | 0.565 | 121.9 | 329.0 | -11.8 | 0.354 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4540 | 4-4800 | 0.367 | 70.1 | 67.2 | 12.17 | 1.231 | 82.2 | 0.519 | 2.011 | 23.1 | 145.1 | --- | --- | -9.08 | 0.534 | 117.4 | 327.6 | -13.9 | 0.311 |
| 4-4540 | 4-4820 | 0.374 | 63.6 | 69.7 | 13.15 | 1.221 | 82.0 | 0.497 | 1.920 | 24.2 | 151.1 | --- | --- | -9.64 | 0.510 | 113.1 | 325.4 | -16.4 | 0.278 |
| 4-4540 | 4-4840 | 0.384 | 57.0 | 72.3 | 14.27 | 1.215 | 82.0 | 0.482 | 1.862 | 24.8 | 156.6 | --- | --- | -10.35 | 0.493 | 109.0 | 322.6 | -19.2 | 0.254 |
| 4-4540 | 4-4860 | 0.398 | 49.2 | 75.0 | 15.57 | 1.210 | 82.1 | 0.472 | 1.825 | 24.8 | 161.5 | --- | --- | -11.26 | 0.481 | 105.2 | 319.3 | -22.3 | 0.239 |
| 4-4540 | 4-4880 | 0.417 | 38.3 | 77.8 | 17.13 | 1.208 | 82.3 | 0.464 | 1.803 | 24.3 | 165.9 | --- | --- | -12.44 | 0.472 | 101.6 | 315.8 | -25.6 | 0.230 |
| 4-4540 | 4-4900 | 0.443 | 20.4 | 80.1 | 19.04 | 1.206 | 82.7 | 0.460 | 1.791 | 23.5 | 169.8 | --- | --- | -13.99 | 0.466 | 98.4 | 312.3 | -29.0 | 0.230 |
| 4-4540 | 4-4920 | 0.479 | 352.3 | 81.0 | 21.48 | 1.206 | 83.0 | 0.457 | 1.787 | 22.3 | 173.4 | --- | --- | -16.08 | 0.461 | 95.5 | 309.3 | -32.4 | 0.237 |
| 4-4540 | 4-4940 | 0.531 | 323.6 | 79.1 | 24.76 | 1.206 | 83.5 | 0.456 | 1.787 | 20.9 | 176.6 | --- | --- | -19.01 | 0.459 | 92.8 | 307.1 | -36.0 | 0.254 |
| 4-4540 | 4-4960 | 0.607 | 306.1 | 74.4 | 29.40 | 1.206 | 84.0 | 0.455 | 1.792 | 19.4 | 179.6 | --- | --- | -23.32 | 0.457 | 90.3 | 306.1 | -39.6 | 0.283 |
| 4-4540 | 4-4980 | 0.728 | 298.2 | 67.3 | 36.51 | 1.207 | 84.4 | 0.456 | 1.800 | 17.8 | 182.3 | --- | 2.622 | -3[illegible] 10 | 0.456 | 88.1 | 306.7 | -43.1 | 0.334 |
| 4-4540 | 4-5000 | 0.932 | 295.8 | 57.4 | 48.39 | 1.209 | 84.8 | 0.458 | 1.810 | 16.5 | 184.9 | --- | 2.640 | -41.65 | 0.456 | 85.9 | 309.8 | -45.3 | 0.425 |
| 4-4540 | 4-5020 | 1.277 | 297.2 | 42.9 | 69.51 | 1.210 | 85.0 | 0.461 | 1.822 | 16.0 | 187.3 | --- | 2.663 | -62.46 | 0.455 | 83.8 | 316.0 | -43.2 | 0.586 |
| 4-4540 | 4-5060 | 0.930 | 59.5 | -74.2 | -48.41 | 1.214 | 89.8 | 0.463 | 1.851 | 0.7 | 189.9 | --- | 2.707 | 56.08 | 0.456 | 81.6 | 320.8 | 44.2 | 0.537 |
| 4-4540 | 4-5080 | 0.619 | 92.5 | -62.8 | -30.56 | 1.215 | 90.2 | 0.468 | 1.866 | 359.5 | 551.9 | 0.994 | 2.738 | 38.54 | 0.456 | 79.9 | 316.8 | 43.7 | 0.405 |
| 4-4540 | 4-5100 | 0.446 | 105.8 | -51.0 | -20.45 | 1.217 | 90.8 | 0.472 | 1.882 | 357.5 | 553.6 | 0.993 | 2.771 | 28.74 | 0.457 | 78.4 | 314.6 | 39.6 | 0.338 |
| 4-4540 | 4-5120 | 0.348 | 115.0 | -39.6 | -14.24 | 1.219 | 91.6 | 0.477 | 1.899 | 355.0 | 555.2 | 0.992 | 2.805 | 22.83 | 0.457 | 76.9 | 314.1 | 34.8 | 0.303 |
| 4-4540 | 4-5140 | 0.292 | 123.2 | -28.8 | -10.09 | 1.221 | 92.5 | 0.483 | 1.916 | 352.3 | 556.6 | 0.991 | 2.840 | 18.99 | 0.458 | 75.6 | 314.7 | 30.4 | 0.285 |
| 4-4540 | 4-5160 | 0.261 | 131.1 | -18.8 | -7.12 | 1.223 | 93.4 | 0.489 | 1.933 | 349.5 | 558.0 | 0.988 | 2.877 | 16.33 | 0.458 | 74.3 | 316.1 | 26.6 | 0.277 |
| 4-4540 | 4-5180 | 0.248 | 138.7 | -10.1 | -4.88 | 1.225 | 94.4 | 0.495 | 1.950 | 346.6 | 559.2 | 0.985 | 2.916 | 14.39 | 0.459 | 73.0 | 317.9 | 23.5 | 0.273 |
| 4-4540 | 4-5200 | 0.245 | 146.1 | -3.1 | -3.11 | 1.227 | 95.5 | 0.502 | 1.968 | 343.6 | 560.3 | 0.980 | 2.955 | 12.94 | 0.459 | 71.8 | 320.2 | 21.0 | 0.273 |
| 4-4540 | 4-5220 | 0.250 | 153.1 | 2.3 | -1.67 | 1.229 | 96.5 | 0.509 | 1.985 | 340.6 | 561.4 | 0.975 | 2.996 | 11.82 | 0.460 | 70.5 | 322.6 | 18.9 | 0.275 |
| 4-4540 | 4-5240 | 0.260 | 159.6 | 6.3 | -0.47 | 1.230 | 97.6 | 0.517 | 2.003 | 337.5 | 562.4 | 0.968 | 3.038 | 10.93 | 0.461 | 69.3 | 325.3 | 17.1 | 0.278 |
| 4-4540 | 4-5260 | 0.273 | 165.5 | 8.9 | 0.57 | 1.232 | 98.8 | 0.525 | 2.021 | 334.4 | 563.3 | 0.960 | 3.081 | 10.23 | 0.461 | 68.1 | 328.1 | 15.7 | 0.281 |
| 4-4540 | 4-5280 | 0.289 | 170.9 | 10.7 | 1.47 | 1.234 | 99.9 | 0.533 | 2.038 | 331.2 | 564.2 | 0.951 | 3.126 | 9.66 | 0.462 | 67.0 | 331.1 | 14.4 | 0.286 |
| 4-4540 | 4-5300 | 0.307 | 175.8 | 11.7 | 2.28 | 1.236 | 101.1 | 0.542 | 2.056 | 328.0 | 564.9 | 0.941 | 3.171 | 9.19 | 0.463 | 65.8 | 334.1 | 13.4 | 0.291 |
| 4-4550 | 4-4670 | 0.593 | 113.4 | 41.4 | 7.43 | 1.543 | 81.5 | 1.352 | -2.759 | 14.7 | 94.8 | --- | --- | -6.41 | 1.067 | 146.7 | 328.2 | -4.1 | 0.917 |
| 4-4550 | 4-4690 | 0.503 | 106.3 | 45.8 | 7.99 | 1.435 | 80.8 | 1.040 | 24.261 | 18.0 | 103.0 | --- | --- | -6.33 | 0.905 | 142.9 | 329.0 | -4.6 | 0.749 |
| 4-4550 | 4-4710 | 0.451 | 98.3 | 49.5 | 8.53 | 1.363 | 80.1 | 0.845 | 6.196 | 21.7 | 111.6 | --- | --- | -6.31 | 0.786 | 138.7 | 329.6 | -5.3 | 0.622 |
| 4-4550 | 4-4730 | 0.421 | 90.3 | 52.4 | 9.08 | 1.313 | 79.4 | 0.720 | 3.395 | 25.3 | 120.1 | --- | --- | -6.33 | 0.697 | 134.3 | 329.9 | -6.0 | 0.523 |
| 4-4550 | 4-4750 | 0.404 | 83.0 | 54.6 | 9.64 | 1.278 | 78.9 | 0.637 | 2.603 | 28.6 | 128.4 | --- | --- | -6.40 | 0.630 | 129.6 | 329.7 | -7.0 | 0.444 |
| 4-4550 | 4-4770 | 0.396 | 76.8 | 56.4 | 10.21 | 1.254 | 78.5 | 0.582 | 2.245 | 31.4 | 136.2 | --- | --- | -6.53 | 0.580 | 124.8 | 329.1 | -8.2 | 0.381 |
| 4-4550 | 4-4790 | 0.393 | 71.9 | 58.0 | 10.81 | 1.237 | 78.3 | 0.545 | 2.050 | 33.5 | 143.2 | --- | --- | -6.70 | 0.542 | 120.1 | 327.8 | -9.5 | 0.331 |
| 4-4550 | 4-4810 | 0.393 | 68.0 | 59.7 | 11.46 | 1.225 | 78.2 | 0.519 | 1.935 | 34.9 | 149.6 | --- | --- | -6.95 | 0.515 | 115.5 | 325.9 | -11.1 | 0.291 |
| 4-4550 | 4-4830 | 0.394 | 65.0 | 61.6 | 12.15 | 1.217 | 78.3 | 0.501 | 1.864 | 35.6 | 155.2 | --- | --- | -7.26 | 0.494 | 111.1 | 323.4 | -12.9 | 0.261 |
| 4-4550 | 4-4850 | 0.398 | 62.4 | 63.8 | 12.91 | 1.212 | 78.5 | 0.489 | 1.820 | 35.7 | 160.2 | --- | --- | -7.67 | 0.480 | 107.0 | 320.3 | -14.9 | 0.238 |
| 4-4550 | 4-4870 | 0.403 | 60.1 | 66.2 | 13.77 | 1.209 | 78.7 | 0.480 | 1.793 | 35.2 | 164.7 | --- | --- | -8.19 | 0.469 | 103.3 | 316.9 | -17.0 | 0.223 |
| 4-4550 | 4-4890 | 0.410 | 57.6 | 68.9 | 14.75 | 1.207 | 79.1 | 0.474 | 1.778 | 34.4 | 168.7 | --- | --- | -8.84 | 0.462 | 99.8 | 313.4 | -19.1 | 0.214 |
| 4-4550 | 4-4910 | 0.421 | 54.3 | 72.0 | 15.91 | 1.206 | 79.6 | 0.470 | 1.772 | 33.1 | 172.3 | --- | --- | -9.68 | 0.458 | 96.7 | 310.2 | -21.3 | 0.210 |
| 4-4550 | 4-4930 | 0.435 | 49.0 | 75.3 | 17.30 | 1.206 | 80.1 | 0.467 | 1.772 | 31.5 | 175.6 | --- | --- | -10.78 | 0.455 | 93.9 | 307.5 | -23.7 | 0.212 |
| 4-4550 | 4-4950 | 0.457 | 38.6 | 78.7 | 19.05 | 1.206 | 80.7 | 0.466 | 1.777 | 29.7 | 178.5 | --- | --- | -12.23 | 0.453 | 91.3 | 305.5 | -26.2 | 0.218 |
| 4-4550 | 4-4970 | 0.488 | 16.5 | 81.4 | 21.32 | 1.207 | 81.3 | 0.465 | 1.785 | 27.7 | 181.2 | --- | 2.614 | -14.23 | 0.453 | 89.0 | 304.3 | -29.0 | 0.229 |
| 4-4550 | 4-4990 | 0.534 | 340.5 | 81.3 | 24.45 | 1.209 | 81.9 | 0.465 | 1.795 | 25.6 | 183.6 | --- | 2.630 | -17.08 | 0.452 | 86.9 | 304.1 | -32.4 | 0.247 |
| 4-4550 | 5-5010 | 0.609 | 314.1 | 77.2 | 29.06 | 1.210 | 82.6 | 0.466 | 1.808 | 23.4 | 185.9 | --- | 2.650 | -21.42 | 0.453 | 84.9 | 305.2 | -36.4 | 0.277 |
| 4-4550 | 5-5030 | 0.734 | 303.6 | 69.7 | 36.51 | 1.212 | 83.3 | 0.468 | 1.822 | 21.2 | 188.0 | --- | 2.674 | -28.61 | 0.453 | 83.1 | 308.1 | -40.9 | 0.329 |
| 4-4550 | 5-5050 | 0.966 | 301.8 | 58.4 | 50.09 | 1.214 | 83.8 | 0.470 | 1.837 | 19.4 | 189.9 | --- | 2.701 | -41.93 | 0.454 | 81.4 | 314.1 | -44.2 | 0.430 |
| 4-4550 | 5-5070 | 1.396 | 305.3 | 40.7 | 76.93 | 1.216 | 84.0 | 0.474 | 1.853 | 18.7 | 191.9 | --- | 2.732 | -68.52 | 0.455 | 79.6 | 324.1 | -41.4 | 0.629 |
| 4-4550 | 5-5110 | 0.708 | 81.4 | -64.4 | -35.38 | 1.220 | 88.4 | 0.476 | 1.887 | 5.1 | 194.2 | --- | 2.785 | 44.28 | 0.456 | 77.8 | 322.7 | 43.8 | 0.450 |
| 4-4550 | 5-5130 | 0.460 | 103.0 | -50.7 | -21.09 | 1.222 | 89.0 | 0.480 | 1.905 | 3.1 | 195.7 | --- | 2.820 | 30.24 | 0.457 | 76.4 | 318.7 | 39.5 | 0.352 |
| 4-4550 | 5-5150 | 0.336 | 115.0 | -36.9 | -13.33 | 1.224 | 89.8 | 0.485 | 1.923 | 0.6 | 197.1 | --- | 2.855 | 22.72 | 0.458 | 75.1 | 317.6 | 33.8 | 0.308 |
| 4-4550 | 5-5170 | 0.273 | 124.6 | -23.7 | -8.58 | 1.226 | 90.7 | 0.490 | 1.941 | 357.8 | 558.4 | 0.991 | 2.892 | 18.21 | 0.459 | 73.9 | 318.3 | 28.7 | 0.287 |
| 4-4550 | 5-5190 | 0.243 | 133.6 | -12.0 | -5.38 | 1.228 | 91.7 | 0.495 | 1.960 | 354.9 | 559.5 | 0.990 | 2.929 | 15.26 | 0.459 | 72.8 | 319.8 | 24.6 | 0.277 |
| 4-4550 | 5-5210 | 0.232 | 142.2 | -2.5 | -3.07 | 1.230 | 92.7 | 0.501 | 1.978 | 351.9 | 560.6 | 0.988 | 2.968 | 13.19 | 0.460 | 71.6 | 321.9 | 21.4 | 0.274 |
| 4-4550 | 5-5230 | 0.231 | 150.4 | 4.6 | -1.31 | 1.232 | 93.8 | 0.507 | 1.996 | 348.8 | 561.7 | 0.985 | 3.008 | 11.68 | 0.461 | 70.5 | 324.3 | 18.8 | 0.273 |
| 4-4550 | 5-5250 | 0.238 | 158.1 | 9.6 | 0.08 | 1.234 | 94.8 | 0.513 | 2.014 | 345.7 | 562.6 | 0.981 | 3.048 | 10.54 | 0.462 | 69.4 | 326.9 | 16.7 | 0.274 |
| 4-4550 | 5-5270 | 0.249 | 165.2 | 12.9 | 1.22 | 1.235 | 95.9 | 0.520 | 2.033 | 342.6 | 563.6 | 0.976 | 3.090 | 9.65 | 0.462 | 68.3 | 329.7 | 15.1 | 0.277 |
| 4-4550 | 5-5290 | 0.262 | 171.5 | 14.8 | 2.19 | 1.237 | 97.1 | 0.527 | 2.051 | 339.5 | 564.4 | 0.969 | 3.132 | 8.95 | 0.463 | 67.3 | 332.7 | 13.7 | 0.280 |
| 4-4550 | 5-5310 | 0.278 | 177.3 | 15.8 | 3.01 | 1.239 | 98.2 | 0.535 | 2.069 | 336.3 | 565.2 | 0.962 | 3.175 | 8.38 | 0.464 | 66.2 | 335.7 | 12.6 | 0.284 |
| 4-4560 | 4-4680 | 0.615 | 104.1 | 42.1 | 8.02 | 1.500 | 75.2 | 1.211 | -4.398 | 27.0 | 99.6 | --- | --- | -4.96 | 1.002 | 146.2 | 328.4 | -3.2 | 0.859 |
| 4-4560 | 4-4700 | 0.539 | 96.6 | 45.0 | 8.45 | 1.403 | 74.9 | 0.950 | 18.231 | 31.1 | 108.6 | --- | --- | -4.84 | 0.851 | 142.2 | 329.0 | -3.6 | 0.701 |
| 4-4560 | 4-4720 | 0.495 | 89.3 | 47.1 | 8.88 | 1.338 | 74.5 | 0.789 | 4.299 | 35.2 | 117.7 | --- | --- | -4.77 | 0.740 | 137.8 | 329.2 | -4.1 | 0.582 |
| 4-4560 | 4-4740 | 0.469 | 83.1 | 48.7 | 9.29 | 1.294 | 74.2 | 0.687 | 2.869 | 39.1 | 126.4 | --- | --- | -4.73 | 0.658 | 133.0 | 329.1 | -4.7 | 0.489 |
| 4-4560 | 4-4760 | 0.454 | 78.1 | 49.9 | 9.70 | 1.264 | 74.0 | 0.621 | 2.347 | 42.3 | 134.6 | --- | --- | -4.73 | 0.596 | 128.1 | 328.4 | -5.3 | 0.416 |
| 4-4560 | 4-4780 | 0.445 | 74.3 | 51.0 | 10.12 | 1.243 | 74.0 | 0.577 | 2.090 | 44.7 | 142.0 | --- | --- | -4.77 | 0.551 | 123.1 | 327.3 | -6.2 | 0.357 |
| 4-4560 | 4-4800 | 0.439 | 71.6 | 52.1 | 10.54 | 1.228 | 74.0 | 0.547 | 1.946 | 46.3 | 148.6 | --- | --- | -4.84 | 0.518 | 118.2 | 325.5 | -7.1 | 0.312 |
| 4-4560 | 4-4820 | 0.434 | 69.7 | 53.4 | 10.98 | 1.219 | 74.1 | 0.527 | 1.860 | 47.1 | 154.4 | --- | --- | -4.95 | 0.494 | 113.4 | 323.1 | -8.1 | 0.276 |
| 4-4560 | 4-4840 | 0.431 | 68.5 | 54.9 | 11.45 | 1.212 | 74.4 | 0.512 | 1.807 | 47.3 | 159.5 | --- | --- | -5.11 | 0.476 | 109.0 | 320.2 | -9.3 | 0.249 |
| 4-4560 | 4-4860 | 0.429 | 67.8 | 56.5 | 11.94 | 1.208 | 74.7 | 0.502 | 1.776 | 46.8 | 164.1 | --- | --- | -5.32 | 0.465 | 104.9 | 316.9 | -10.5 | 0.229 |
| 4-4560 | 4-4880 | 0.427 | 67.5 | 58.5 | 12.48 | 1.206 | 75.2 | 0.494 | 1.758 | 45.9 | 168.1 | --- | --- | -5.59 | 0.457 | 101.2 | 313.6 | -11.7 | 0.215 |
| 4-4560 | 4-4900 | 0.426 | 67.5 | 60.7 | 13.08 | 1.205 | 75.7 | 0.489 | 1.751 | 44.6 | 171.7 | --- | --- | -5.93 | 0.452 | 97.8 | 310.3 | -12.9 | 0.207 |
| 4-4560 | 4-4920 | 0.427 | 67.7 | 63.2 | 13.76 | 1.205 | 76.3 | 0.485 | 1.750 | 43.0 | 174.9 | --- | --- | -6.36 | 0.449 | 94.8 | 307.5 | -14.1 | 0.203 |
| 4-4560 | 4-4940 | 0.429 | 67.9 | 66.0 | 14.55 | 1.205 | 76.9 | 0.482 | 1.755 | 41.0 | 177.8 | --- | --- | -6.91 | 0.447 | 92.1 | 305.2 | -15.4 | 0.203 |
| 4-4560 | 4-4960 | 0.433 | 67.9 | 69.1 | 15.48 | 1.207 | 77.6 | 0.479 | 1.763 | 38.9 | 180.4 | --- | 2.608 | -7.61 | 0.447 | 89.6 | 303.5 | -16.8 | 0.205 |
| 4-4560 | 4-4980 | 0.442 | 67.2 | 72.6 | 16.62 | 1.208 | 78.4 | 0.478 | 1.774 | 36.6 | 182.8 | --- | 2.623 | -8.53 | 0.447 | 87.4 | 302.6 | -18.4 | 0.210 |
| 4-4560 | 4-5000 | 0.456 | 64.6 | 76.6 | 18.07 | 1.210 | 79.1 | 0.478 | 1.788 | 34.1 | 185.0 | --- | 2.641 | -9.77 | 0.448 | 85.4 | 302.4 | -20.4 | 0.217 |
| 4-4560 | 4-5020 | 0.478 | 56.1 | 80.8 | 19.99 | 1.212 | 79.9 | 0.478 | 1.802 | 31.5 | 187.1 | --- | 2.663 | -11.49 | 0.449 | 83.6 | 302.9 | -23.0 | 0.228 |
| 4-4560 | 4-5040 | 0.515 | 24.2 | 84.4 | 22.71 | 1.214 | 80.8 | 0.478 | 1.819 | 28.9 | 188.9 | --- | 2.688 | -14.01 | 0.450 | 82.0 | 304.2 | -26.3 | 0.243 |
| 4-4560 | 5-5060 | 0.579 | 325.9 | 82.6 | 26.88 | 1.216 | 81.6 | 0.479 | 1.836 | 26.2 | 190.7 | --- | 2.716 | -17.99 | 0.451 | 80.4 | 306.5 | -30.9 | 0.268 |
| 4-4560 | 5-5080 | 0.699 | 307.3 | 74.7 | 34.11 | 1.218 | 82.4 | 0.481 | 1.854 | 23.6 | 192.4 | --- | 2.745 | -25.03 | 0.452 | 79.0 | 310.6 | -36.8 | 0.313 |
| 4-4560 | 5-5100 | 0.954 | 306.6 | 61.7 | 49.04 | 1.220 | 83.1 | 0.484 | 1.872 | 21.3 | 193.9 | --- | 2.777 | -39.77 | 0.454 | 77.6 | 318.8 | -42.6 | 0.418 |
| 4-4560 | 5-5140 | 0.911 | 59.5 | -65.6 | -46.77 | 1.224 | 86.6 | 0.485 | 1.910 | 10.5 | 196.2 | --- | 2.836 | 56.40 | 0.456 | 75.8 | 331.6 | 43.0 | 0.540 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4560 | 4-5160 | 0.490 | 100.0 | -50.6 | -22.54 | 1.227 | 87.1 | 0.489 | 1.929 | 8.7 | 197.6 | --- | 2.872 | 32.36 | 0.457 | 74.5 | 323.5 | 39.5 | 0.370 |
| 4-4560 | 4-5180 | 0.323 | 116.3 | -32.2 | -12.02 | 1.229 | 88.0 | 0.493 | 1.948 | 6.1 | 198.8 | --- | 2.909 | 22.02 | 0.458 | 73.4 | 321.3 | 32.2 | 0.309 |
| 4-4560 | 4-5200 | 0.255 | 127.6 | -15.1 | -6.48 | 1.231 | 88.9 | 0.498 | 1.967 | 3.2 | 199.9 | --- | 2.946 | 16.65 | 0.459 | 72.3 | 321.8 | 26.1 | 0.285 |
| 4-4560 | 4-5220 | 0.230 | 137.6 | -1.3 | -3.08 | 1.233 | 89.9 | 0.502 | 1.986 | 0.2 | 201.0 | --- | 2.984 | 13.43 | 0.460 | 71.3 | 323.5 | 21.6 | 0.276 |
| 4-4560 | 4-5240 | 0.224 | 146.9 | 8.7 | -0.78 | 1.235 | 91.0 | 0.507 | 2.005 | 357.1 | 562.0 | 0.988 | 3.022 | 11.31 | 0.461 | 70.3 | 325.8 | 18.2 | 0.272 |
| 4-4560 | 4-5260 | 0.227 | 155.7 | 15.3 | 0.89 | 1.236 | 92.0 | 0.512 | 2.024 | 354.0 | 562.9 | 0.987 | 3.061 | 9.82 | 0.462 | 69.3 | 328.4 | 15.7 | 0.272 |
| 4-4560 | 4-5280 | 0.236 | 163.9 | 19.3 | 2.16 | 1.238 | 93.1 | 0.518 | 2.043 | 350.9 | 563.8 | 0.985 | 3.101 | 8.73 | 0.463 | 68.3 | 331.2 | 13.8 | 0.273 |
| 4-4560 | 4-5300 | 0.247 | 171.3 | 21.4 | 3.18 | 1.240 | 94.2 | 0.524 | 2.062 | 347.8 | 564.7 | 0.981 | 3.142 | 7.89 | 0.464 | 67.3 | 334.1 | 12.3 | 0.276 |
| 4-4560 | 4-5320 | 0.260 | 177.9 | 22.2 | 4.02 | 1.242 | 95.3 | 0.531 | 2.080 | 344.6 | 565.5 | 0.976 | 3.184 | 7.24 | 0.465 | 66.4 | 337.2 | 11.1 | 0.279 |
| 4-4570 | 4-4710 | 0.601 | 90.1 | 43.1 | 9.09 | 1.370 | 68.7 | 0.874 | 6.720 | 45.9 | 115.9 | --- | --- | -3.19 | 0.794 | 141.8 | 328.1 | -2.4 | 0.658 |
| 4-4570 | 4-4730 | 0.560 | 84.7 | 44.2 | 9.37 | 1.313 | 68.7 | 0.747 | 3.301 | 50.3 | 125.2 | --- | --- | -3.10 | 0.691 | 137.0 | 327.9 | -2.7 | 0.546 |
| 4-4570 | 4-4750 | 0.535 | 80.5 | 45.0 | 9.65 | 1.275 | 68.8 | 0.668 | 2.484 | 53.9 | 133.8 | --- | --- | -3.04 | 0.616 | 131.9 | 327.3 | -3.0 | 0.460 |
| 4-4570 | 4-4770 | 0.518 | 77.4 | 45.8 | 9.91 | 1.248 | 69.0 | 0.617 | 2.135 | 56.6 | 141.5 | --- | --- | -3.01 | 0.560 | 126.6 | 326.1 | -3.4 | 0.392 |
| 4-4570 | 4-4790 | 0.506 | 75.3 | 46.6 | 10.17 | 1.231 | 69.2 | 0.583 | 1.953 | 58.4 | 148.3 | --- | --- | -3.00 | 0.520 | 121.3 | 324.4 | -3.9 | 0.339 |
| 4-4570 | 4-4810 | 0.496 | 74.0 | 47.4 | 10.44 | 1.219 | 69.5 | 0.560 | 1.848 | 59.3 | 154.2 | --- | --- | -3.01 | 0.491 | 116.2 | 322.1 | -4.4 | 0.298 |
| 4-4570 | 4-4830 | 0.488 | 73.4 | 48.4 | 10.70 | 1.211 | 69.9 | 0.543 | 1.786 | 59.5 | 159.3 | --- | --- | -3.04 | 0.470 | 111.3 | 319.3 | -5.0 | 0.266 |
| 4-4570 | 4-4850 | 0.480 | 73.3 | 49.5 | 10.97 | 1.206 | 70.3 | 0.531 | 1.750 | 59.0 | 163.8 | --- | --- | -3.10 | 0.456 | 106.8 | 316.2 | -5.6 | 0.243 |
| 4-4570 | 4-4870 | 0.473 | 73.6 | 50.8 | 11.26 | 1.204 | 70.9 | 0.522 | 1.730 | 58.0 | 167.8 | --- | --- | -3.18 | 0.447 | 102.7 | 312.9 | -6.2 | 0.226 |
| 4-4570 | 4-4890 | 0.466 | 74.2 | 52.2 | 11.56 | 1.203 | 71.5 | 0.515 | 1.722 | 56.6 | 171.4 | --- | --- | -3.30 | 0.442 | 98.9 | 309.7 | -6.7 | 0.215 |
| 4-4570 | 4-4910 | 0.459 | 75.2 | 53.8 | 11.88 | 1.202 | 72.1 | 0.509 | 1.721 | 54.9 | 174.5 | --- | --- | -3.45 | 0.439 | 95.6 | 306.9 | -7.3 | 0.208 |
| 4-4570 | 4-4930 | 0.452 | 76.5 | 55.6 | 12.24 | 1.203 | 72.9 | 0.504 | 1.726 | 52.9 | 177.4 | --- | --- | -3.64 | 0.438 | 92.7 | 304.5 | -7.8 | 0.205 |
| 4-4570 | 4-4950 | 0.446 | 78.0 | 57.6 | 12.64 | 1.204 | 73.6 | 0.501 | 1.735 | 50.6 | 179.9 | --- | --- | -3.87 | 0.438 | 90.0 | 302.8 | -8.3 | 0.205 |
| 4-4570 | 4-4970 | 0.441 | 79.9 | 59.8 | 13.09 | 1.206 | 74.4 | 0.498 | 1.747 | 48.2 | 182.3 | --- | 2.616 | -4.18 | 0.439 | 87.7 | 301.7 | -8.9 | 0.206 |
| 4-4570 | 4-4990 | 0.437 | 82.0 | 62.3 | 13.62 | 1.208 | 75.3 | 0.495 | 1.761 | 45.6 | 184.5 | --- | 2.634 | -4.56 | 0.440 | 85.6 | 301.3 | -9.6 | 0.209 |
| 4-4570 | 4-5010 | 0.435 | 84.4 | 65.0 | 14.25 | 1.210 | 76.1 | 0.494 | 1.777 | 42.9 | 186.5 | --- | 2.655 | -5.05 | 0.442 | 83.8 | 301.4 | -10.5 | 0.213 |
| 4-4570 | 4-5030 | 0.436 | 87.1 | 68.1 | 15.03 | 1.212 | 77.0 | 0.493 | 1.794 | 40.1 | 188.3 | --- | 2.679 | -5.70 | 0.444 | 82.1 | 302.1 | -11.6 | 0.218 |
| 4-4570 | 4-5050 | 0.440 | 90.1 | 71.6 | 16.03 | 1.215 | 77.9 | 0.492 | 1.813 | 37.2 | 190.0 | --- | 2.705 | -6.57 | 0.446 | 80.6 | 303.2 | -13.0 | 0.224 |
| 4-4570 | 4-5070 | 0.451 | 93.4 | 75.7 | 17.39 | 1.217 | 78.9 | 0.492 | 1.832 | 34.3 | 191.6 | --- | 2.733 | -7.81 | 0.448 | 79.2 | 304.8 | -15.0 | 0.231 |
| 4-4570 | 4-5090 | 0.473 | 96.3 | 80.7 | 19.36 | 1.219 | 79.8 | 0.493 | 1.851 | 31.3 | 193.1 | --- | 2.763 | -9.65 | 0.449 | 77.9 | 306.8 | -17.8 | 0.240 |
| 4-4570 | 4-5110 | 0.516 | 90.8 | 87.0 | 22.51 | 1.222 | 80.7 | 0.493 | 1.871 | 28.3 | 194.5 | --- | 2.795 | -12.69 | 0.451 | 76.7 | 309.5 | -22.2 | 0.255 |
| 4-4570 | 4-5130 | 0.608 | 303.2 | 84.0 | 28.41 | 1.224 | 81.7 | 0.495 | 1.891 | 25.4 | 195.9 | --- | 2.828 | -18.46 | 0.453 | 75.5 | 313.4 | -29.1 | 0.286 |
| 4-4570 | 4-5150 | 0.854 | 307.8 | 69.3 | 42.94 | 1.226 | 82.5 | 0.497 | 1.912 | 22.7 | 197.1 | --- | 2.862 | -32.88 | 0.454 | 74.4 | 322.0 | -39.2 | 0.376 |
| 4-4570 | 4-5190 | 0.572 | 93.9 | -52.7 | -26.90 | 1.231 | 85.3 | 0.500 | 1.952 | 14.3 | 199.2 | --- | 2.928 | 37.18 | 0.457 | 72.7 | 329.9 | 40.4 | 0.407 |
| 4-4570 | 4-5210 | 0.303 | 119.9 | -24.1 | -9.79 | 1.233 | 86.1 | 0.503 | 1.972 | 11.6 | 200.3 | --- | 2.965 | 20.19 | 0.458 | 71.7 | 324.7 | 29.5 | 0.305 |
| 4-4570 | 4-5230 | 0.240 | 133.2 | 0.0 | -3.23 | 1.235 | 87.1 | 0.507 | 1.992 | 8.6 | 201.4 | --- | 3.002 | 13.73 | 0.460 | 70.7 | 325.2 | 21.7 | 0.279 |
| 4-4570 | 4-5250 | 0.229 | 144.0 | 15.3 | 0.17 | 1.237 | 88.1 | 0.510 | 2.012 | 5.6 | 202.3 | --- | 3.039 | 10.44 | 0.461 | 69.8 | 327.2 | 16.8 | 0.271 |
| 4-4570 | 4-5270 | 0.231 | 153.7 | 23.9 | 2.26 | 1.239 | 89.2 | 0.515 | 2.032 | 2.4 | 203.2 | --- | 3.078 | 8.46 | 0.462 | 68.9 | 329.8 | 13.6 | 0.270 |
| 4-4570 | 4-5290 | 0.239 | 162.7 | 28.5 | 3.68 | 1.241 | 90.2 | 0.519 | 2.052 | 359.3 | 564.1 | 0.987 | 3.116 | 7.15 | 0.463 | 68.1 | 332.6 | 11.4 | 0.270 |
| 4-4570 | 4-5310 | 0.248 | 170.8 | 30.6 | 4.72 | 1.243 | 91.3 | 0.524 | 2.071 | 356.1 | 564.9 | 0.986 | 3.156 | 6.23 | 0.465 | 67.2 | 335.6 | 9.8 | 0.272 |
| 4-4570 | 4-5330 | 0.258 | 178.2 | 31.2 | 5.51 | 1.244 | 92.4 | 0.529 | 2.090 | 353.0 | 565.7 | 0.984 | 3.196 | 5.54 | 0.466 | 66.3 | 338.6 | 8.6 | 0.275 |
| 4-4580 | 4-4720 | 0.681 | 87.2 | 40.9 | 9.93 | 1.339 | 62.2 | 0.822 | 4.192 | 62.4 | 124.8 | --- | --- | -1.32 | 0.736 | 141.8 | 326.3 | -1.0 | 0.621 |
| 4-4580 | 4-4740 | 0.641 | 83.6 | 41.5 | 10.06 | 1.288 | 62.7 | 0.727 | 2.695 | 66.4 | 133.8 | --- | --- | -1.27 | 0.640 | 136.5 | 325.6 | -1.1 | 0.517 |
| 4-4580 | 4-4760 | 0.613 | 81.0 | 42.0 | 10.17 | 1.255 | 63.2 | 0.667 | 2.195 | 69.3 | 141.8 | --- | --- | -1.23 | 0.571 | 131.0 | 324.5 | -1.2 | 0.437 |
| 4-4580 | 4-4780 | 0.593 | 79.4 | 42.6 | 10.28 | 1.233 | 63.7 | 0.629 | 1.959 | 71.2 | 148.6 | --- | --- | -1.20 | 0.521 | 125.3 | 322.8 | -1.4 | 0.375 |
| 4-4580 | 4-4800 | 0.577 | 78.5 | 43.1 | 10.39 | 1.218 | 64.2 | 0.602 | 1.832 | 72.1 | 154.5 | --- | --- | -1.18 | 0.486 | 119.6 | 320.6 | -1.5 | 0.327 |
| 4-4580 | 4-4820 | 0.563 | 78.2 | 43.8 | 10.49 | 1.209 | 64.8 | 0.583 | 1.759 | 72.2 | 159.6 | --- | --- | -1.17 | 0.461 | 114.1 | 317.9 | -1.7 | 0.291 |
| 4-4580 | 4-4840 | 0.550 | 78.3 | 44.5 | 10.59 | 1.203 | 65.4 | 0.569 | 1.717 | 71.6 | 164.0 | --- | --- | -1.17 | 0.445 | 109.0 | 314.8 | -1.9 | 0.263 |
| 4-4580 | 4-4860 | 0.538 | 78.9 | 45.3 | 10.69 | 1.200 | 66.1 | 0.557 | 1.695 | 70.6 | 167.9 | --- | --- | -1.18 | 0.435 | 104.4 | 311.7 | -2.0 | 0.244 |
| 4-4580 | 4-4880 | 0.526 | 79.8 | 46.3 | 10.80 | 1.199 | 66.8 | 0.548 | 1.685 | 69.0 | 171.3 | --- | --- | -1.20 | 0.429 | 100.2 | 308.6 | -2.2 | 0.230 |
| 4-4580 | 4-4900 | 0.515 | 80.9 | 47.3 | 10.91 | 1.198 | 67.6 | 0.541 | 1.684 | 67.2 | 174.4 | --- | --- | -1.22 | 0.426 | 96.5 | 305.8 | -2.3 | 0.222 |
| 4-4580 | 4-4920 | 0.503 | 82.3 | 48.4 | 11.02 | 1.199 | 68.4 | 0.534 | 1.690 | 65.1 | 177.2 | --- | --- | -1.26 | 0.425 | 93.2 | 303.6 | -2.5 | 0.217 |
| 4-4580 | 4-4940 | 0.492 | 84.0 | 49.5 | 11.14 | 1.201 | 69.3 | 0.529 | 1.699 | 62.7 | 179.7 | --- | --- | -1.31 | 0.426 | 90.3 | 301.9 | -2.6 | 0.215 |
| 4-4580 | 4-4960 | 0.480 | 85.9 | 50.8 | 11.27 | 1.203 | 70.2 | 0.524 | 1.713 | 60.2 | 182.0 | --- | 2.610 | -1.37 | 0.428 | 87.8 | 300.8 | -2.7 | 0.214 |
| 4-4580 | 4-4980 | 0.469 | 88.1 | 52.2 | 11.41 | 1.205 | 71.1 | 0.520 | 1.728 | 57.5 | 184.1 | --- | 2.627 | -1.46 | 0.430 | 85.6 | 300.3 | -2.9 | 0.216 |
| 4-4580 | 4-5000 | 0.458 | 90.6 | 53.6 | 11.57 | 1.207 | 72.0 | 0.517 | 1.746 | 54.7 | 186.0 | --- | 2.647 | -1.56 | 0.432 | 83.6 | 300.4 | -3.1 | 0.218 |
| 4-4580 | 4-5020 | 0.448 | 93.4 | 55.2 | 11.75 | 1.210 | 73.0 | 0.514 | 1.764 | 51.8 | 187.8 | --- | 2.671 | -1.68 | 0.435 | 81.9 | 300.9 | -3.3 | 0.221 |
| 4-4580 | 4-5040 | 0.438 | 96.5 | 56.8 | 11.97 | 1.212 | 73.9 | 0.512 | 1.784 | 48.8 | 189.5 | --- | 2.697 | -1.84 | 0.438 | 80.3 | 301.9 | -3.6 | 0.224 |
| 4-4580 | 4-5060 | 0.429 | 100.0 | 58.6 | 12.23 | 1.215 | 74.9 | 0.510 | 1.804 | 45.8 | 191.1 | --- | 2.724 | -2.05 | 0.441 | 78.9 | 303.2 | -3.9 | 0.228 |
| 4-4580 | 4-5080 | 0.421 | 104.1 | 60.6 | 12.55 | 1.218 | 75.9 | 0.509 | 1.825 | 42.7 | 192.5 | --- | 2.754 | -2.32 | 0.443 | 77.6 | 304.9 | -4.4 | 0.231 |
| 4-4580 | 4-5100 | 0.415 | 108.7 | 62.7 | 12.97 | 1.220 | 76.9 | 0.508 | 1.847 | 39.6 | 193.9 | --- | 2.784 | -2.70 | 0.446 | 76.5 | 306.8 | -5.0 | 0.235 |
| 4-4580 | 4-5120 | 0.412 | 114.1 | 65.2 | 13.55 | 1.223 | 77.9 | 0.507 | 1.868 | 36.4 | 195.2 | --- | 2.816 | -3.23 | 0.448 | 75.4 | 309.0 | -5.9 | 0.239 |
| 4-4580 | 4-5140 | 0.413 | 120.6 | 68.1 | 14.41 | 1.225 | 78.9 | 0.507 | 1.890 | 33.3 | 196.4 | --- | 2.849 | -4.04 | 0.450 | 74.4 | 311.4 | -7.2 | 0.243 |
| 4-4580 | 4-5160 | 0.424 | 129.1 | 72.0 | 15.82 | 1.228 | 80.0 | 0.508 | 1.911 | 30.1 | 197.6 | --- | 2.882 | -5.40 | 0.452 | 73.4 | 314.0 | -9.4 | 0.249 |
| 4-4580 | 4-5180 | 0.458 | 143.6 | 78.0 | 18.64 | 1.230 | 81.0 | 0.509 | 1.933 | 27.0 | 198.7 | --- | 2.917 | -8.18 | 0.454 | 72.5 | 317.0 | -13.8 | 0.258 |
| 4-4580 | 4-5200 | 0.590 | 247.1 | 85.2 | 27.19 | 1.232 | 82.0 | 0.510 | 1.954 | 23.9 | 199.8 | --- | 2.952 | -16.68 | 0.456 | 71.6 | 322.0 | -25.3 | 0.291 |
| 4-4580 | 4-5240 | 0.265 | 129.4 | -1.5 | -4.10 | 1.237 | 84.2 | 0.514 | 1.997 | 17.1 | 201.7 | --- | 3.023 | 14.69 | 0.459 | 70.0 | 327.1 | 22.4 | 0.287 |
| 4-4580 | 4-5260 | 0.252 | 144.7 | 29.0 | 2.84 | 1.239 | 85.2 | 0.517 | 2.017 | 14.0 | 202.7 | --- | 3.060 | 7.79 | 0.460 | 69.2 | 328.3 | 12.6 | 0.268 |
| 4-4580 | 4-5280 | 0.262 | 155.2 | 38.5 | 5.35 | 1.241 | 86.3 | 0.520 | 2.038 | 10.8 | 203.5 | --- | 3.097 | 5.32 | 0.462 | 68.4 | 331.0 | 8.6 | 0.266 |
| 4-4580 | 4-5300 | 0.269 | 164.2 | 42.0 | 6.65 | 1.243 | 87.4 | 0.523 | 2.058 | 7.7 | 204.4 | --- | 3.134 | 4.06 | 0.463 | 67.6 | 333.9 | 6.5 | 0.267 |
| 4-4580 | 4-5320 | 0.275 | 172.3 | 43.0 | 7.45 | 1.245 | 88.4 | 0.526 | 2.078 | 4.5 | 205.2 | --- | 3.173 | 3.31 | 0.465 | 66.8 | 337.0 | 5.2 | 0.270 |
| 4-4580 | 4-5340 | 0.280 | 179.6 | 42.6 | 8.00 | 1.246 | 89.5 | 0.530 | 2.098 | 1.3 | 206.0 | --- | 3.211 | 2.80 | 0.466 | 66.0 | 340.1 | 4.4 | 0.272 |
| 4-4590 | 4-4730 | 0.775 | 87.1 | 38.9 | 11.08 | 1.308 | 55.5 | 0.798 | 3.102 | 79.7 | 134.7 | --- | --- | 0.86 | 0.677 | 142.3 | 323.7 | 0.6 | 0.594 |
| 4-4590 | 4-4750 | 0.732 | 84.9 | 39.3 | 10.99 | 1.264 | 56.5 | 0.729 | 2.295 | 82.8 | 142.7 | --- | --- | 0.81 | 0.588 | 136.5 | 322.5 | 0.7 | 0.497 |
| 4-4590 | 4-4770 | 0.700 | 83.7 | 39.7 | 10.91 | 1.235 | 57.3 | 0.685 | 1.974 | 84.6 | 149.5 | --- | --- | 0.77 | 0.525 | 130.3 | 320.8 | 0.7 | 0.423 |
| 4-4590 | 4-4790 | 0.675 | 83.0 | 40.1 | 10.84 | 1.217 | 58.2 | 0.655 | 1.813 | 85.4 | 155.3 | --- | --- | 0.75 | 0.480 | 124.0 | 318.6 | 0.8 | 0.366 |
| 4-4590 | 4-4810 | 0.654 | 83.0 | 40.5 | 10.77 | 1.205 | 59.0 | 0.633 | 1.726 | 85.3 | 160.3 | --- | --- | 0.73 | 0.450 | 117.9 | 316.0 | 0.9 | 0.324 |
| 4-4590 | 4-4830 | 0.636 | 83.3 | 41.0 | 10.71 | 1.198 | 59.9 | 0.616 | 1.677 | 84.6 | 164.5 | --- | --- | 0.71 | 0.430 | 112.0 | 313.1 | 1.0 | 0.292 |
| 4-4590 | 4-4850 | 0.619 | 84.1 | 41.5 | 10.65 | 1.195 | 60.8 | 0.602 | 1.652 | 83.4 | 168.2 | --- | --- | 0.70 | 0.417 | 106.7 | 310.1 | 1.0 | 0.269 |
| 4-4590 | 4-4870 | 0.603 | 85.0 | 42.0 | 10.59 | 1.193 | 61.7 | 0.591 | 1.641 | 81.7 | 171.5 | --- | --- | 0.70 | 0.411 | 101.8 | 307.2 | 1.1 | 0.252 |
| 4-4590 | 4-4890 | 0.587 | 86.3 | 42.7 | 10.53 | 1.193 | 62.6 | 0.581 | 1.640 | 79.7 | 174.5 | --- | --- | 0.70 | 0.408 | 97.6 | 304.6 | 1.2 | 0.242 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4590 | 4-4910 | 0.571 | 87.7 | 43.3 | 10.46 | 1.194 | 63.6 | 0.573 | 1.646 | 77.4 | 177.1 | --- | --- | 0.71 | 0.408 | 93.8 | 302.4 | 1.2 | 0.235 |
| 4-4590 | 4-4930 | 0.556 | 89.4 | 44.0 | 10.40 | 1.195 | 64.6 | 0.565 | 1.657 | 75.0 | 179.5 | --- | --- | 0.72 | 0.410 | 90.6 | 300.8 | 1.3 | 0.231 |
| 4-4590 | 4-4950 | 0.541 | 91.2 | 44.7 | 10.34 | 1.198 | 65.5 | 0.558 | 1.672 | 72.3 | 181.7 | --- | 2.605 | 0.74 | 0.412 | 87.8 | 299.8 | 1.3 | 0.230 |
| 4-4590 | 4-4970 | 0.525 | 93.2 | 45.4 | 10.27 | 1.200 | 66.6 | 0.552 | 1.689 | 69.6 | 183.8 | --- | 2.621 | 0.77 | 0.416 | 85.4 | 299.3 | 1.4 | 0.230 |
| 4-4590 | 4-4990 | 0.510 | 95.4 | 46.1 | 10.20 | 1.203 | 67.6 | 0.547 | 1.708 | 66.7 | 185.6 | --- | 2.641 | 0.80 | 0.420 | 83.3 | 299.4 | 1.4 | 0.231 |
| 4-4590 | 4-5010 | 0.495 | 97.8 | 46.8 | 10.12 | 1.206 | 68.6 | 0.542 | 1.728 | 63.7 | 187.4 | --- | 2.664 | 0.84 | 0.423 | 81.4 | 299.9 | 1.5 | 0.233 |
| 4-4590 | 4-5030 | 0.480 | 100.4 | 47.5 | 10.03 | 1.209 | 69.6 | 0.538 | 1.749 | 60.7 | 189.0 | --- | 2.690 | 0.89 | 0.427 | 79.8 | 300.9 | 1.6 | 0.235 |
| 4-4590 | 4-5050 | 0.464 | 103.2 | 48.1 | 9.93 | 1.212 | 70.7 | 0.534 | 1.771 | 57.6 | 190.6 | --- | 2.717 | 0.96 | 0.431 | 78.4 | 302.2 | 1.7 | 0.238 |
| 4-4590 | 4-5070 | 0.449 | 106.2 | 48.7 | 9.82 | 1.215 | 71.7 | 0.531 | 1.794 | 54.4 | 192.0 | --- | 2.746 | 1.04 | 0.434 | 77.1 | 303.8 | 1.8 | 0.241 |
| 4-4590 | 4-5090 | 0.434 | 109.5 | 49.3 | 9.68 | 1.217 | 72.8 | 0.528 | 1.817 | 51.3 | 193.4 | --- | 2.777 | 1.14 | 0.438 | 75.9 | 305.7 | 2.0 | 0.243 |
| 4-4590 | 4-5110 | 0.419 | 113.0 | 49.7 | 9.52 | 1.220 | 73.8 | 0.526 | 1.840 | 48.1 | 194.6 | --- | 2.808 | 1.27 | 0.441 | 74.8 | 307.8 | 2.2 | 0.246 |
| 4-4590 | 4-5130 | 0.404 | 116.8 | 49.9 | 9.32 | 1.223 | 74.9 | 0.525 | 1.863 | 44.8 | 195.8 | --- | 2.840 | 1.44 | 0.444 | 73.9 | 310.1 | 2.5 | 0.249 |
| 4-4590 | 4-5150 | 0.389 | 120.8 | 49.9 | 9.06 | 1.226 | 76.0 | 0.524 | 1.886 | 41.6 | 197.0 | --- | 2.873 | 1.68 | 0.446 | 73.0 | 312.6 | 2.9 | 0.251 |
| 4-4590 | 4-5170 | 0.374 | 124.9 | 49.4 | 8.69 | 1.228 | 77.0 | 0.523 | 1.909 | 38.4 | 198.1 | --- | 2.907 | 2.02 | 0.449 | 72.1 | 315.1 | 3.4 | 0.254 |
| 4-4590 | 4-5190 | 0.357 | 129.2 | 48.2 | 8.15 | 1.231 | 78.1 | 0.523 | 1.932 | 35.2 | 199.2 | --- | 2.941 | 2.54 | 0.451 | 71.3 | 317.9 | 4.2 | 0.257 |
| 4-4590 | 4-5210 | 0.338 | 133.2 | 45.5 | 7.23 | 1.233 | 79.1 | 0.523 | 1.954 | 32.0 | 200.2 | --- | 2.976 | 3.42 | 0.453 | 70.5 | 320.7 | 5.6 | 0.260 |
| 4-4590 | 4-5230 | 0.313 | 136.0 | 39.1 | 5.36 | 1.236 | 80.2 | 0.523 | 1.977 | 28.8 | 201.1 | --- | 3.011 | 5.27 | 0.455 | 69.8 | 323.7 | 8.5 | 0.264 |
| 4-4590 | 4-5250 | 0.284 | 132.9 | 14.0 | -0.81 | 1.238 | 81.3 | 0.524 | 1.999 | 25.6 | 202.1 | --- | 3.047 | 11.42 | 0.457 | 69.0 | 327.8 | 17.5 | 0.281 |
| 4-4590 | 4-5270 | 1.132 | 322.9 | 64.0 | 58.90 | 1.240 | 82.5 | 0.525 | 2.021 | 22.0 | 202.9 | --- | 3.082 | -48.31 | 0.459 | 68.4 | 347.5 | -40.9 | 0.487 |
| 4-4590 | 4-5290 | 0.455 | 185.5 | 72.6 | 19.08 | 1.242 | 83.4 | 0.527 | 2.042 | 19.1 | 203.8 | --- | 3.119 | -8.53 | 0.461 | 67.6 | 333.2 | -13.2 | 0.277 |
| 4-4590 | 4-5310 | 0.390 | 179.8 | 64.8 | 15.16 | 1.244 | 84.5 | 0.529 | 2.063 | 15.9 | 204.6 | --- | 3.155 | -4.63 | 0.463 | 67.0 | 335.7 | -7.3 | 0.272 |
| 4-4590 | 4-5330 | 0.365 | 182.4 | 60.4 | 13.70 | 1.246 | 85.6 | 0.532 | 2.084 | 12.8 | 205.4 | --- | 3.192 | -3.19 | 0.464 | 66.3 | 338.7 | -5.0 | 0.272 |
| 4-4590 | 4-5350 | 0.351 | 186.7 | 57.0 | 12.93 | 1.248 | 86.7 | 0.535 | 2.104 | 9.6 | 206.2 | --- | 3.230 | -2.45 | 0.466 | 65.6 | 341.8 | -3.8 | 0.274 |
| 4-4600 | 4-4740 | 0.878 | 89.0 | 37.3 | 12.64 | 1.279 | 48.6 | 0.804 | 2.508 | 96.9 | 144.3 | --- | --- | 3.46 | 0.618 | 143.5 | 320.3 | 2.2 | 0.578 |
| 4-4600 | 4-4760 | 0.829 | 88.0 | 37.5 | 12.26 | 1.240 | 50.0 | 0.753 | 2.018 | 98.5 | 151.0 | --- | --- | 3.22 | 0.535 | 136.9 | 318.6 | 2.4 | 0.487 |
| 4-4600 | 4-4780 | 0.792 | 87.7 | 37.8 | 11.93 | 1.216 | 51.3 | 0.719 | 1.803 | 99.1 | 156.5 | --- | --- | 3.03 | 0.477 | 130.0 | 316.5 | 2.6 | 0.419 |
| 4-4600 | 4-4800 | 0.762 | 87.8 | 38.0 | 11.63 | 1.201 | 52.5 | 0.693 | 1.693 | 98.8 | 161.2 | --- | --- | 2.88 | 0.437 | 123.0 | 314.1 | 2.9 | 0.368 |
| 4-4600 | 4-4820 | 0.736 | 88.4 | 38.3 | 11.36 | 1.192 | 53.7 | 0.673 | 1.634 | 97.8 | 165.2 | --- | --- | 2.76 | 0.412 | 116.2 | 311.3 | 3.1 | 0.330 |
| 4-4600 | 4-4840 | 0.714 | 89.2 | 38.6 | 11.11 | 1.188 | 54.9 | 0.657 | 1.604 | 96.3 | 168.7 | --- | --- | 2.68 | 0.396 | 109.9 | 308.4 | 3.3 | 0.302 |
| 4-4600 | 4-4860 | 0.692 | 90.3 | 39.0 | 10.87 | 1.186 | 56.0 | 0.643 | 1.592 | 94.5 | 171.8 | --- | --- | 2.61 | 0.388 | 104.1 | 305.7 | 3.5 | 0.282 |
| 4-4600 | 4-4880 | 0.672 | 91.6 | 39.3 | 10.64 | 1.185 | 57.1 | 0.630 | 1.590 | 92.3 | 174.6 | --- | --- | 2.57 | 0.385 | 99.1 | 303.2 | 3.7 | 0.268 |
| 4-4600 | 4-4900 | 0.653 | 93.0 | 39.7 | 10.42 | 1.186 | 58.3 | 0.619 | 1.597 | 89.9 | 177.1 | --- | --- | 2.55 | 0.386 | 94.7 | 301.2 | 3.8 | 0.259 |
| 4-4600 | 4-4920 | 0.634 | 94.6 | 40.0 | 10.21 | 1.188 | 59.4 | 0.609 | 1.609 | 87.3 | 179.4 | --- | --- | 2.55 | 0.389 | 90.9 | 299.7 | 3.9 | 0.254 |
| 4-4600 | 4-4940 | 0.615 | 96.4 | 40.3 | 9.99 | 1.191 | 60.5 | 0.600 | 1.625 | 84.5 | 181.5 | --- | 2.599 | 2.57 | 0.393 | 87.7 | 298.7 | 4.0 | 0.251 |
| 4-4600 | 4-4960 | 0.596 | 98.3 | 40.6 | 9.77 | 1.194 | 61.7 | 0.592 | 1.643 | 81.7 | 183.4 | --- | 2.615 | 2.61 | 0.398 | 85.0 | 298.3 | 4.1 | 0.250 |
| 4-4600 | 4-4980 | 0.578 | 100.2 | 40.9 | 9.54 | 1.197 | 62.8 | 0.584 | 1.664 | 78.7 | 185.3 | --- | 2.635 | 2.66 | 0.403 | 82.7 | 298.4 | 4.3 | 0.250 |
| 4-4600 | 4-5000 | 0.560 | 102.3 | 41.2 | 9.30 | 1.200 | 63.9 | 0.577 | 1.686 | 75.7 | 187.0 | --- | 2.658 | 2.74 | 0.408 | 80.7 | 299.0 | 4.4 | 0.251 |
| 4-4600 | 4-5020 | 0.541 | 104.6 | 41.4 | 9.05 | 1.204 | 65.1 | 0.571 | 1.709 | 72.5 | 188.5 | --- | 2.684 | 2.84 | 0.413 | 79.0 | 299.9 | 4.6 | 0.252 |
| 4-4600 | 4-5040 | 0.523 | 106.9 | 41.5 | 8.79 | 1.207 | 66.2 | 0.565 | 1.732 | 69.4 | 190.0 | --- | 2.712 | 2.96 | 0.418 | 77.5 | 301.3 | 4.8 | 0.254 |
| 4-4600 | 4-5060 | 0.505 | 109.4 | 41.5 | 8.50 | 1.210 | 67.3 | 0.560 | 1.757 | 66.2 | 191.4 | --- | 2.741 | 3.12 | 0.423 | 76.2 | 302.9 | 5.0 | 0.256 |
| 4-4600 | 4-5080 | 0.487 | 111.9 | 41.4 | 8.17 | 1.213 | 68.4 | 0.556 | 1.781 | 63.0 | 192.8 | --- | 2.771 | 3.32 | 0.428 | 75.0 | 304.8 | 5.3 | 0.258 |
| 4-4600 | 4-5100 | 0.468 | 114.6 | 41.1 | 7.81 | 1.217 | 69.5 | 0.552 | 1.806 | 59.8 | 194.0 | --- | 2.802 | 3.56 | 0.432 | 73.9 | 306.9 | 5.7 | 0.260 |
| 4-4600 | 4-5120 | 0.450 | 117.4 | 40.6 | 7.39 | 1.220 | 70.7 | 0.548 | 1.831 | 56.5 | 195.2 | --- | 2.834 | 3.87 | 0.435 | 73.0 | 309.2 | 6.2 | 0.262 |
| 4-4600 | 4-5140 | 0.431 | 120.2 | 39.8 | 6.90 | 1.223 | 71.8 | 0.545 | 1.855 | 53.3 | 196.4 | --- | 2.867 | 4.25 | 0.439 | 72.1 | 311.6 | 6.7 | 0.264 |
| 4-4600 | 4-5160 | 0.413 | 123.1 | 38.6 | 6.30 | 1.225 | 72.9 | 0.543 | 1.880 | 50.0 | 197.5 | --- | 2.900 | 4.74 | 0.442 | 71.3 | 314.2 | 7.5 | 0.266 |
| 4-4600 | 4-5180 | 0.394 | 126.0 | 36.7 | 5.55 | 1.228 | 73.9 | 0.541 | 1.904 | 46.8 | 198.5 | --- | 2.934 | 5.39 | 0.445 | 70.6 | 316.9 | 8.4 | 0.269 |
| 4-4600 | 4-5200 | 0.374 | 128.7 | 33.9 | 4.57 | 1.231 | 75.0 | 0.539 | 1.928 | 43.6 | 199.5 | --- | 2.968 | 6.27 | 0.448 | 69.9 | 319.8 | 9.7 | 0.272 |
| 4-4600 | 4-5220 | 0.354 | 131.0 | 29.5 | 3.22 | 1.234 | 76.1 | 0.538 | 1.952 | 40.4 | 200.5 | --- | 3.003 | 7.52 | 0.451 | 69.2 | 322.8 | 11.5 | 0.275 |
| 4-4600 | 4-5240 | 0.335 | 132.6 | 22.2 | 1.21 | 1.236 | 77.2 | 0.538 | 1.976 | 37.2 | 201.4 | --- | 3.038 | 9.43 | 0.453 | 68.5 | 326.1 | 14.2 | 0.281 |
| 4-4600 | 4-5260 | 0.324 | 132.3 | 9.6 | -2.11 | 1.238 | 78.2 | 0.537 | 1.999 | 34.0 | 202.3 | --- | 3.073 | 12.66 | 0.455 | 67.9 | 329.8 | 18.5 | 0.292 |
| 4-4600 | 4-5280 | 0.352 | 127.1 | -13.6 | -8.70 | 1.241 | 79.3 | 0.538 | 2.021 | 31.0 | 203.2 | --- | 3.109 | 19.16 | 0.457 | 67.3 | 334.8 | 25.8 | 0.318 |
| 4-4600 | 4-5300 | 0.602 | 102.4 | -45.5 | -27.07 | 1.243 | 80.2 | 0.539 | 2.044 | 28.3 | 204.1 | --- | 3.145 | 37.45 | 0.460 | 66.6 | 346.4 | 37.7 | 0.419 |
| 4-4600 | 4-5340 | 0.799 | 285.3 | 77.7 | 39.18 | 1.247 | 82.9 | 0.539 | 2.088 | 20.3 | 205.6 | --- | 3.213 | -28.98 | 0.464 | 65.6 | 348.6 | -33.6 | 0.370 |
| 4-4600 | 4-5360 | 0.584 | 226.0 | 75.4 | 26.82 | 1.249 | 83.9 | 0.541 | 2.109 | 17.5 | 206.4 | --- | 3.250 | -16.71 | 0.466 | 65.0 | 346.5 | -22.9 | 0.312 |
| 4-4610 | 4-4750 | 0.985 | 92.3 | 35.9 | 14.86 | 1.252 | 41.5 | 0.831 | 2.146 | 113.0 | 153.0 | --- | --- | 6.73 | 0.562 | 145.4 | 316.5 | 3.7 | 0.576 |
| 4-4610 | 4-4770 | 0.930 | 92.2 | 36.0 | 14.03 | 1.218 | 43.4 | 0.792 | 1.820 | 113.1 | 158.1 | --- | --- | 6.12 | 0.482 | 138.1 | 314.5 | 4.0 | 0.490 |
| 4-4610 | 4-4790 | 0.887 | 92.6 | 36.2 | 13.34 | 1.198 | 45.1 | 0.763 | 1.670 | 112.4 | 162.4 | --- | --- | 5.65 | 0.428 | 130.3 | 312.2 | 4.3 | 0.426 |
| 4-4610 | 4-4810 | 0.852 | 93.3 | 36.3 | 12.74 | 1.186 | 46.7 | 0.740 | 1.594 | 111.1 | 166.0 | --- | --- | 5.28 | 0.393 | 122.3 | 309.6 | 4.6 | 0.379 |
| 4-4610 | 4-4830 | 0.821 | 94.3 | 36.5 | 12.20 | 1.180 | 48.3 | 0.720 | 1.556 | 109.3 | 169.3 | --- | --- | 5.00 | 0.372 | 114.7 | 306.9 | 4.9 | 0.345 |
| 4-4610 | 4-4850 | 0.794 | 95.5 | 36.6 | 11.73 | 1.177 | 49.7 | 0.703 | 1.540 | 107.2 | 172.1 | --- | --- | 4.78 | 0.361 | 107.6 | 304.3 | 5.1 | 0.320 |
| 4-4610 | 4-4870 | 0.769 | 96.9 | 36.8 | 11.29 | 1.176 | 51.1 | 0.688 | 1.537 | 104.9 | 174.7 | --- | --- | 4.61 | 0.357 | 101.4 | 302.0 | 5.3 | 0.303 |
| 4-4610 | 4-4890 | 0.745 | 98.4 | 36.9 | 10.88 | 1.177 | 52.4 | 0.674 | 1.543 | 102.3 | 177.0 | --- | --- | 4.48 | 0.358 | 96.1 | 300.1 | 5.5 | 0.291 |
| 4-4610 | 4-4910 | 0.722 | 100.0 | 37.0 | 10.49 | 1.180 | 53.8 | 0.661 | 1.556 | 99.6 | 179.2 | --- | --- | 4.40 | 0.362 | 91.6 | 298.7 | 5.6 | 0.283 |
| 4-4610 | 4-4930 | 0.700 | 101.7 | 37.1 | 10.11 | 1.182 | 55.1 | 0.650 | 1.573 | 96.7 | 181.2 | --- | 2.594 | 4.34 | 0.368 | 87.8 | 297.8 | 5.8 | 0.278 |
| 4-4610 | 4-4950 | 0.678 | 103.5 | 37.2 | 9.74 | 1.186 | 56.4 | 0.639 | 1.592 | 93.7 | 183.1 | --- | 2.610 | 4.32 | 0.375 | 84.6 | 297.5 | 5.9 | 0.275 |
| 4-4610 | 4-4970 | 0.657 | 105.3 | 37.2 | 9.38 | 1.189 | 57.6 | 0.629 | 1.614 | 90.7 | 184.8 | --- | 2.629 | 4.34 | 0.382 | 82.0 | 297.6 | 6.0 | 0.273 |
| 4-4610 | 4-4990 | 0.636 | 107.2 | 37.2 | 9.02 | 1.193 | 58.9 | 0.620 | 1.638 | 87.6 | 186.4 | --- | 2.653 | 4.38 | 0.389 | 79.8 | 298.2 | 6.1 | 0.273 |
| 4-4610 | 4-5010 | 0.615 | 109.2 | 37.1 | 8.65 | 1.197 | 60.2 | 0.611 | 1.663 | 84.4 | 188.0 | --- | 2.678 | 4.45 | 0.396 | 77.9 | 299.1 | 6.3 | 0.273 |
| 4-4610 | 4-5030 | 0.595 | 111.3 | 36.9 | 8.27 | 1.201 | 61.4 | 0.603 | 1.688 | 81.2 | 189.4 | --- | 2.706 | 4.55 | 0.402 | 76.3 | 300.5 | 6.5 | 0.274 |
| 4-4610 | 4-5050 | 0.574 | 113.4 | 36.7 | 7.87 | 1.204 | 62.6 | 0.596 | 1.714 | 78.0 | 190.8 | --- | 2.735 | 4.69 | 0.409 | 74.9 | 302.1 | 6.8 | 0.275 |
| 4-4610 | 4-5070 | 0.554 | 115.6 | 36.3 | 7.45 | 1.208 | 63.8 | 0.589 | 1.740 | 74.7 | 192.1 | --- | 2.766 | 4.87 | 0.414 | 73.7 | 303.9 | 7.0 | 0.276 |
| 4-4610 | 4-5090 | 0.534 | 117.8 | 35.8 | 6.99 | 1.212 | 65.0 | 0.583 | 1.767 | 71.4 | 193.4 | --- | 2.797 | 5.10 | 0.420 | 72.7 | 306.0 | 7.4 | 0.277 |
| 4-4610 | 4-5110 | 0.513 | 120.0 | 35.1 | 6.50 | 1.215 | 66.2 | 0.578 | 1.793 | 68.2 | 194.6 | --- | 2.829 | 5.37 | 0.425 | 71.8 | 308.3 | 7.8 | 0.278 |
| 4-4610 | 4-5130 | 0.493 | 122.3 | 34.1 | 5.95 | 1.218 | 67.3 | 0.573 | 1.820 | 64.9 | 195.7 | --- | 2.862 | 5.72 | 0.429 | 70.9 | 310.7 | 8.3 | 0.279 |
| 4-4610 | 4-5150 | 0.473 | 124.6 | 32.9 | 5.34 | 1.222 | 68.5 | 0.569 | 1.846 | 61.6 | 196.8 | --- | 2.896 | 6.14 | 0.433 | 70.2 | 313.3 | 8.9 | 0.281 |
| 4-4610 | 4-5170 | 0.454 | 126.8 | 31.3 | 4.63 | 1.225 | 69.6 | 0.565 | 1.872 | 58.4 | 197.8 | --- | 2.929 | 6.66 | 0.437 | 69.5 | 316.0 | 9.7 | 0.283 |
| 4-4610 | 4-5190 | 0.434 | 129.0 | 29.1 | 3.79 | 1.228 | 70.8 | 0.562 | 1.897 | 55.1 | 198.8 | --- | 2.963 | 7.32 | 0.441 | 68.8 | 318.8 | 10.6 | 0.284 |
| 4-4610 | 4-5210 | 0.415 | 131.0 | 26.3 | 2.78 | 1.230 | 71.9 | 0.559 | 1.923 | 51.9 | 199.8 | --- | 2.997 | 8.15 | 0.444 | 68.2 | 321.8 | 11.8 | 0.287 |
| 4-4610 | 4-5230 | 0.396 | 132.8 | 22.3 | 1.51 | 1.233 | 73.0 | 0.557 | 1.948 | 48.7 | 200.7 | --- | 3.032 | 9.25 | 0.447 | 67.7 | 324.8 | 13.3 | 0.290 |
| 4-4610 | 4-5250 | 0.379 | 134.1 | 16.9 | -0.12 | 1.236 | 74.1 | 0.555 | 1.972 | 45.6 | 201.6 | --- | 3.067 | 10.72 | 0.450 | 67.1 | 328.1 | 15.2 | 0.294 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4610 | 4-5270 | 0.367 | 134.6 | 9.1 | -2.36 | 1.238 | 75.2 | 0.553 | 1.997 | 42.4 | 202.5 | --- | 3.102 | 12.79 | 0.453 | 66.6 | 331.5 | 17.8 | 0.301 |
| 4-4610 | 4-5290 | 0.366 | 133.5 | -2.1 | -5.62 | 1.241 | 76.2 | 0.553 | 2.020 | 39.4 | 203.4 | --- | 3.137 | 15.89 | 0.455 | 66.0 | 335.5 | 21.4 | 0.312 |
| 4-4610 | 4-5310 | 0.396 | 129.1 | -17.8 | -10.83 | 1.243 | 77.2 | 0.552 | 2.044 | 36.4 | 204.2 | --- | 3.172 | 20.95 | 0.458 | 65.5 | 340.3 | 26.5 | 0.333 |
| 4-4610 | 4-5330 | 0.511 | 117.1 | -36.6 | -20.39 | 1.245 | 78.2 | 0.552 | 2.067 | 33.6 | 205.0 | --- | 3.209 | 30.37 | 0.460 | 64.9 | 347.6 | 33.5 | 0.382 |
| 4-4610 | 4-5350 | 0.850 | 86.4 | -48.9 | -41.44 | 1.247 | 78.9 | 0.554 | 2.089 | 31.4 | 205.8 | --- | 3.246 | 51.26 | 0.462 | 64.3 | 1.5 | 39.6 | 0.510 |
| 4-4620 | 4-4760 | 1.095 | 96.6 | 34.7 | 18.14 | 1.229 | 34.2 | 0.871 | 1.912 | 127.5 | 160.2 | --- | --- | 11.08 | 0.509 | 148.5 | 312.8 | 5.0 | 0.587 |
| 4-4620 | 4-4780 | 1.033 | 97.2 | 34.7 | 16.57 | 1.199 | 36.7 | 0.839 | 1.676 | 126.2 | 163.9 | --- | --- | 9.79 | 0.431 | 140.3 | 310.6 | 5.3 | 0.505 |
| 4-4620 | 4-4800 | 0.984 | 98.1 | 34.7 | 15.31 | 1.181 | 38.8 | 0.813 | 1.567 | 124.5 | 167.0 | --- | --- | 8.83 | 0.379 | 131.3 | 308.2 | 5.7 | 0.444 |
| 4-4620 | 4-4820 | 0.944 | 99.3 | 34.7 | 14.28 | 1.172 | 40.8 | 0.791 | 1.514 | 122.3 | 169.9 | --- | --- | 8.10 | 0.347 | 122.1 | 305.7 | 5.9 | 0.400 |
| 4-4620 | 4-4840 | 0.908 | 100.6 | 34.7 | 13.39 | 1.167 | 42.7 | 0.771 | 1.490 | 120.0 | 172.4 | --- | --- | 7.53 | 0.330 | 113.3 | 303.3 | 6.2 | 0.368 |
| 4-4620 | 4-4860 | 0.877 | 102.1 | 34.7 | 12.62 | 1.166 | 44.4 | 0.753 | 1.484 | 117.4 | 174.7 | --- | --- | 7.09 | 0.324 | 105.4 | 301.1 | 6.4 | 0.346 |
| 4-4620 | 4-4880 | 0.848 | 103.7 | 34.7 | 11.93 | 1.167 | 46.0 | 0.736 | 1.488 | 114.6 | 176.9 | --- | --- | 6.74 | 0.325 | 98.5 | 299.4 | 6.6 | 0.329 |
| 4-4620 | 4-4900 | 0.820 | 105.3 | 34.7 | 11.30 | 1.169 | 47.6 | 0.720 | 1.501 | 111.7 | 178.9 | --- | --- | 6.47 | 0.330 | 92.8 | 298.0 | 6.7 | 0.318 |
| 4-4620 | 4-4920 | 0.794 | 107.0 | 34.6 | 10.73 | 1.172 | 49.1 | 0.706 | 1.518 | 108.7 | 180.8 | --- | 2.589 | 6.27 | 0.337 | 88.1 | 297.2 | 6.8 | 0.310 |
| 4-4620 | 4-4940 | 0.769 | 108.8 | 34.5 | 10.18 | 1.176 | 50.6 | 0.693 | 1.538 | 105.6 | 182.5 | --- | 2.604 | 6.13 | 0.346 | 84.3 | 296.9 | 6.9 | 0.305 |
| 4-4620 | 4-4960 | 0.745 | 110.6 | 34.3 | 9.66 | 1.180 | 52.1 | 0.680 | 1.561 | 102.5 | 184.2 | --- | 2.623 | 6.03 | 0.355 | 81.2 | 297.0 | 7.0 | 0.302 |
| 4-4620 | 4-4980 | 0.721 | 112.4 | 34.1 | 9.16 | 1.184 | 53.5 | 0.669 | 1.586 | 99.3 | 185.8 | --- | 2.647 | 5.98 | 0.365 | 78.6 | 297.6 | 7.1 | 0.300 |
| 4-4620 | 4-5000 | 0.698 | 114.2 | 33.9 | 8.66 | 1.189 | 54.9 | 0.658 | 1.612 | 96.1 | 187.3 | --- | 2.673 | 5.97 | 0.374 | 76.5 | 298.5 | 7.3 | 0.298 |
| 4-4620 | 4-5020 | 0.675 | 116.1 | 33.5 | 8.17 | 1.193 | 56.2 | 0.647 | 1.639 | 92.8 | 188.7 | --- | 2.701 | 6.00 | 0.382 | 74.8 | 299.8 | 7.4 | 0.298 |
| 4-4620 | 4-5040 | 0.652 | 118.0 | 33.1 | 7.68 | 1.197 | 57.6 | 0.638 | 1.667 | 89.6 | 190.0 | --- | 2.730 | 6.07 | 0.390 | 73.3 | 301.4 | 7.6 | 0.297 |
| 4-4620 | 4-5060 | 0.630 | 119.9 | 32.6 | 7.18 | 1.201 | 58.9 | 0.629 | 1.695 | 86.3 | 191.3 | --- | 2.761 | 6.18 | 0.398 | 72.1 | 303.2 | 7.9 | 0.297 |
| 4-4620 | 4-5080 | 0.608 | 121.9 | 32.0 | 6.66 | 1.205 | 60.2 | 0.621 | 1.723 | 83.0 | 192.6 | --- | 2.793 | 6.33 | 0.405 | 71.1 | 305.3 | 8.2 | 0.297 |
| 4-4620 | 4-5100 | 0.587 | 123.8 | 31.2 | 6.12 | 1.209 | 61.4 | 0.614 | 1.751 | 79.7 | 193.7 | --- | 2.826 | 6.53 | 0.411 | 70.2 | 307.5 | 8.5 | 0.298 |
| 4-4620 | 4-5120 | 0.565 | 125.7 | 30.3 | 5.54 | 1.213 | 62.7 | 0.607 | 1.779 | 76.4 | 194.9 | --- | 2.859 | 6.79 | 0.417 | 69.4 | 309.9 | 8.9 | 0.298 |
| 4-4620 | 4-5140 | 0.544 | 127.6 | 29.2 | 4.92 | 1.216 | 63.9 | 0.601 | 1.807 | 73.1 | 196.0 | --- | 2.892 | 7.10 | 0.422 | 68.7 | 312.5 | 9.4 | 0.298 |
| 4-4620 | 4-5160 | 0.523 | 129.5 | 27.8 | 4.25 | 1.220 | 65.1 | 0.595 | 1.835 | 69.9 | 197.0 | --- | 2.926 | 7.49 | 0.427 | 68.0 | 315.1 | 9.9 | 0.299 |
| 4-4620 | 4-5180 | 0.503 | 131.4 | 26.1 | 3.50 | 1.223 | 66.3 | 0.590 | 1.862 | 66.6 | 198.0 | --- | 2.960 | 7.96 | 0.431 | 67.4 | 317.9 | 10.6 | 0.300 |
| 4-4620 | 4-5200 | 0.483 | 133.2 | 24.1 | 2.66 | 1.226 | 67.5 | 0.585 | 1.889 | 63.4 | 199.0 | --- | 2.994 | 8.54 | 0.436 | 66.9 | 320.8 | 11.4 | 0.301 |
| 4-4620 | 4-5220 | 0.463 | 134.8 | 21.5 | 1.69 | 1.229 | 68.6 | 0.581 | 1.915 | 60.2 | 199.9 | --- | 3.029 | 9.26 | 0.439 | 66.4 | 323.8 | 12.4 | 0.302 |
| 4-4620 | 4-5240 | 0.445 | 136.3 | 18.2 | 0.56 | 1.232 | 69.8 | 0.578 | 1.942 | 57.0 | 200.8 | --- | 3.063 | 10.15 | 0.443 | 65.9 | 326.8 | 13.6 | 0.304 |
| 4-4620 | 4-5260 | 0.428 | 137.4 | 14.1 | -0.80 | 1.235 | 70.9 | 0.575 | 1.967 | 53.8 | 201.7 | --- | 3.098 | 11.28 | 0.446 | 65.5 | 330.0 | 15.0 | 0.307 |
| 4-4620 | 4-5280 | 0.414 | 138.1 | 8.7 | -2.49 | 1.237 | 72.0 | 0.572 | 1.992 | 50.7 | 202.6 | --- | 3.132 | 12.74 | 0.450 | 65.0 | 333.4 | 16.8 | 0.310 |
| 4-4620 | 4-5300 | 0.405 | 138.1 | 1.7 | -4.66 | 1.240 | 73.1 | 0.570 | 2.017 | 47.6 | 203.4 | --- | 3.167 | 14.69 | 0.453 | 64.6 | 336.9 | 19.1 | 0.316 |
| 4-4620 | 4-5320 | 0.407 | 136.8 | -7.3 | -7.57 | 1.242 | 74.1 | 0.568 | 2.042 | 44.6 | 204.2 | --- | 3.202 | 17.38 | 0.455 | 64.1 | 340.8 | 22.1 | 0.326 |
| 4-4620 | 4-5340 | 0.430 | 133.4 | -18.7 | -11.70 | 1.245 | 75.2 | 0.567 | 2.065 | 41.7 | 205.1 | --- | 3.237 | 21.31 | 0.458 | 63.7 | 345.3 | 25.9 | 0.342 |
| 4-4620 | 4-5360 | 0.496 | 125.8 | -31.6 | -18.03 | 1.247 | 76.1 | 0.567 | 2.089 | 38.9 | 205.8 | --- | 3.273 | 27.42 | 0.461 | 63.2 | 351.1 | 30.7 | 0.371 |
| 4-4620 | 4-5380 | 0.648 | 110.3 | -43.2 | -28.65 | 1.249 | 77.0 | 0.567 | 2.112 | 36.4 | 206.6 | --- | 3.309 | 37.84 | 0.463 | 62.7 | 359.4 | 36.1 | 0.429 |
| 4-4630 | 4-4770 | 1.206 | 101.5 | 33.5 | 23.35 | 1.209 | 27.1 | 0.913 | 1.758 | 140.3 | 165.9 | --- | --- | 17.37 | 0.462 | 152.7 | 309.6 | 5.9 | 0.611 |
| 4-4630 | 4-4790 | 1.137 | 102.7 | 33.4 | 20.41 | 1.181 | 29.9 | 0.887 | 1.573 | 137.9 | 168.4 | --- | --- | 14.77 | 0.383 | 143.6 | 307.3 | 6.3 | 0.531 |
| 4-4630 | 4-4810 | 1.082 | 104.1 | 33.3 | 18.20 | 1.166 | 32.5 | 0.863 | 1.488 | 135.4 | 170.6 | --- | --- | 12.92 | 0.331 | 133.3 | 305.0 | 6.5 | 0.472 |
| 4-4630 | 4-4830 | 1.036 | 105.6 | 33.2 | 16.48 | 1.158 | 34.8 | 0.841 | 1.449 | 132.6 | 172.8 | --- | --- | 11.55 | 0.302 | 122.6 | 302.8 | 6.8 | 0.430 |
| 4-4630 | 4-4850 | 0.996 | 107.2 | 33.0 | 15.07 | 1.155 | 37.0 | 0.821 | 1.435 | 129.7 | 174.8 | --- | --- | 10.51 | 0.288 | 112.2 | 300.7 | 7.0 | 0.399 |
| 4-4630 | 4-4870 | 0.960 | 108.9 | 32.9 | 13.89 | 1.155 | 39.0 | 0.802 | 1.436 | 126.8 | 176.7 | --- | --- | 9.71 | 0.286 | 103.1 | 299.0 | 7.2 | 0.377 |
| 4-4630 | 4-4890 | 0.927 | 110.6 | 32.7 | 12.87 | 1.157 | 40.9 | 0.784 | 1.446 | 123.7 | 178.5 | --- | --- | 9.09 | 0.291 | 95.4 | 297.8 | 7.3 | 0.361 |
| 4-4630 | 4-4910 | 0.897 | 112.3 | 32.5 | 11.97 | 1.161 | 42.7 | 0.768 | 1.462 | 120.6 | 180.2 | --- | 2.584 | 8.60 | 0.300 | 89.2 | 296.9 | 7.4 | 0.349 |
| 4-4630 | 4-4930 | 0.868 | 114.1 | 32.2 | 11.17 | 1.165 | 44.4 | 0.752 | 1.482 | 117.4 | 181.9 | --- | 2.597 | 8.23 | 0.311 | 84.3 | 296.6 | 7.5 | 0.341 |
| 4-4630 | 4-4950 | 0.840 | 115.9 | 31.9 | 10.42 | 1.169 | 46.1 | 0.737 | 1.506 | 114.2 | 183.4 | --- | 2.616 | 7.94 | 0.323 | 80.5 | 296.7 | 7.5 | 0.335 |
| 4-4630 | 4-4970 | 0.814 | 117.6 | 31.6 | 9.74 | 1.174 | 47.7 | 0.723 | 1.532 | 110.9 | 184.9 | --- | 2.639 | 7.72 | 0.335 | 77.4 | 297.2 | 7.6 | 0.331 |
| 4-4630 | 4-4990 | 0.788 | 119.4 | 31.2 | 9.08 | 1.179 | 49.2 | 0.710 | 1.559 | 107.6 | 186.4 | --- | 2.666 | 7.56 | 0.347 | 75.0 | 298.2 | 7.7 | 0.328 |
| 4-4630 | 4-5010 | 0.762 | 121.2 | 30.8 | 8.46 | 1.184 | 50.8 | 0.698 | 1.587 | 104.3 | 187.8 | --- | 2.694 | 7.47 | 0.358 | 73.0 | 299.4 | 7.8 | 0.326 |
| 4-4630 | 4-5030 | 0.738 | 123.0 | 30.3 | 7.85 | 1.189 | 52.2 | 0.686 | 1.616 | 101.0 | 189.1 | --- | 2.725 | 7.42 | 0.368 | 71.4 | 301.0 | 8.0 | 0.324 |
| 4-4630 | 4-5050 | 0.714 | 124.7 | 29.7 | 7.25 | 1.193 | 53.7 | 0.675 | 1.645 | 97.7 | 190.4 | --- | 2.756 | 7.43 | 0.377 | 70.1 | 302.7 | 8.2 | 0.322 |
| 4-4630 | 4-5070 | 0.690 | 126.5 | 29.0 | 6.66 | 1.198 | 55.1 | 0.665 | 1.675 | 94.4 | 191.6 | --- | 2.788 | 7.48 | 0.386 | 69.0 | 304.8 | 8.4 | 0.321 |
| 4-4630 | 4-5090 | 0.667 | 128.2 | 28.2 | 6.06 | 1.202 | 56.4 | 0.655 | 1.705 | 91.1 | 192.8 | --- | 2.822 | 7.58 | 0.394 | 68.1 | 306.9 | 8.7 | 0.320 |
| 4-4630 | 4-5110 | 0.644 | 130.0 | 27.3 | 5.44 | 1.206 | 57.8 | 0.646 | 1.734 | 87.8 | 193.9 | --- | 2.855 | 7.72 | 0.402 | 67.4 | 309.3 | 9.0 | 0.319 |
| 4-4630 | 4-5130 | 0.621 | 131.7 | 26.3 | 4.81 | 1.210 | 59.1 | 0.638 | 1.764 | 84.5 | 195.0 | --- | 2.889 | 7.92 | 0.408 | 66.7 | 311.8 | 9.3 | 0.319 |
| 4-4630 | 4-5150 | 0.599 | 133.3 | 25.1 | 4.15 | 1.214 | 60.4 | 0.631 | 1.793 | 81.2 | 196.0 | --- | 2.923 | 8.18 | 0.414 | 66.2 | 314.4 | 9.8 | 0.318 |
| 4-4630 | 4-5170 | 0.578 | 135.0 | 23.7 | 3.44 | 1.218 | 61.7 | 0.624 | 1.822 | 77.9 | 197.0 | --- | 2.958 | 8.50 | 0.420 | 65.6 | 317.1 | 10.3 | 0.318 |
| 4-4630 | 4-5190 | 0.557 | 136.6 | 22.1 | 2.69 | 1.221 | 62.9 | 0.617 | 1.850 | 74.7 | 198.0 | --- | 2.992 | 8.89 | 0.425 | 65.2 | 319.9 | 10.8 | 0.317 |
| 4-4630 | 4-5210 | 0.536 | 138.1 | 20.2 | 1.86 | 1.224 | 64.1 | 0.611 | 1.878 | 71.4 | 199.0 | --- | 3.027 | 9.37 | 0.430 | 64.8 | 322.9 | 11.5 | 0.317 |
| 4-4630 | 4-5230 | 0.516 | 139.5 | 17.9 | 0.95 | 1.228 | 65.3 | 0.606 | 1.906 | 68.2 | 199.9 | --- | 3.062 | 9.95 | 0.434 | 64.4 | 325.8 | 12.3 | 0.318 |
| 4-4630 | 4-5250 | 0.497 | 140.7 | 15.2 | -0.07 | 1.231 | 66.5 | 0.601 | 1.933 | 65.1 | 200.8 | --- | 3.096 | 10.66 | 0.438 | 64.0 | 328.9 | 13.2 | 0.318 |
| 4-4630 | 4-5270 | 0.480 | 141.8 | 11.9 | -1.24 | 1.233 | 67.6 | 0.597 | 1.960 | 61.9 | 201.7 | --- | 3.131 | 11.52 | 0.442 | 63.6 | 332.1 | 14.4 | 0.319 |
| 4-4630 | 4-5290 | 0.464 | 142.5 | 7.9 | -2.61 | 1.236 | 68.8 | 0.593 | 1.986 | 58.8 | 202.5 | --- | 3.165 | 12.60 | 0.446 | 63.3 | 335.3 | 15.7 | 0.321 |
| 4-4630 | 4-5310 | 0.452 | 142.9 | 3.1 | -4.24 | 1.239 | 69.9 | 0.590 | 2.012 | 55.8 | 203.4 | --- | 3.200 | 13.95 | 0.449 | 63.0 | 338.7 | 17.3 | 0.324 |
| 4-4630 | 4-5330 | 0.444 | 142.7 | -2.9 | -6.24 | 1.241 | 71.0 | 0.587 | 2.038 | 52.7 | 204.2 | --- | 3.234 | 15.67 | 0.453 | 62.6 | 342.2 | 19.3 | 0.329 |
| 4-4630 | 4-5350 | 0.445 | 141.5 | -10.1 | -8.78 | 1.244 | 72.0 | 0.585 | 2.062 | 49.8 | 205.0 | --- | 3.269 | 17.94 | 0.456 | 62.3 | 346.0 | 21.7 | 0.337 |
| 4-4630 | 4-5370 | 0.460 | 138.8 | -18.8 | -12.12 | 1.246 | 73.1 | 0.583 | 2.087 | 46.9 | 205.8 | --- | 3.303 | 21.02 | 0.459 | 61.9 | 350.2 | 24.6 | 0.348 |
| 4-4630 | 4-5390 | 0.500 | 133.6 | -28.5 | -16.73 | 1.248 | 74.1 | 0.582 | 2.110 | 44.1 | 206.5 | --- | 3.338 | 25.37 | 0.462 | 61.5 | 355.2 | 28.3 | 0.367 |
| 4-4640 | 4-4780 | 1.316 | 106.9 | 32.3 | 32.45 | 1.194 | 20.1 | 0.949 | 1.660 | 151.4 | 170.3 | --- | --- | 27.56 | 0.424 | 158.0 | 307.1 | 6.5 | 0.647 |
| 4-4640 | 4-4800 | 1.239 | 108.5 | 32.0 | 26.65 | 1.167 | 23.3 | 0.929 | 1.501 | 148.4 | 171.8 | --- | --- | 22.15 | 0.340 | 148.5 | 304.9 | 6.8 | 0.566 |
| 4-4640 | 4-4820 | 1.178 | 110.3 | 31.8 | 22.66 | 1.153 | 26.1 | 0.908 | 1.430 | 145.2 | 173.4 | --- | --- | 18.56 | 0.286 | 136.9 | 302.8 | 7.0 | 0.508 |
| 4-4640 | 4-4840 | 1.127 | 112.1 | 31.5 | 19.74 | 1.146 | 28.8 | 0.888 | 1.399 | 142.0 | 175.0 | --- | --- | 16.04 | 0.256 | 124.1 | 300.9 | 7.2 | 0.466 |
| 4-4640 | 4-4860 | 1.083 | 113.9 | 31.2 | 17.50 | 1.144 | 31.2 | 0.869 | 1.391 | 138.8 | 176.5 | --- | --- | 14.21 | 0.245 | 111.6 | 299.2 | 7.4 | 0.436 |
| 4-4640 | 4-4880 | 1.044 | 115.7 | 30.9 | 15.71 | 1.145 | 33.5 | 0.850 | 1.396 | 135.5 | 178.1 | --- | --- | 12.84 | 0.246 | 100.7 | 298.0 | 7.5 | 0.413 |
| 4-4640 | 4-4900 | 1.008 | 117.5 | 30.6 | 14.22 | 1.148 | 35.6 | 0.832 | 1.409 | 132.2 | 179.6 | --- | --- | 11.79 | 0.256 | 92.0 | 297.1 | 7.6 | 0.396 |
| 4-4640 | 4-4920 | 0.974 | 119.3 | 30.2 | 12.96 | 1.153 | 37.6 | 0.814 | 1.428 | 128.9 | 181.1 | --- | 2.591 | 10.97 | 0.269 | 85.2 | 296.8 | 7.6 | 0.384 |
| 4-4640 | 4-4940 | 0.943 | 121.1 | 29.8 | 11.85 | 1.157 | 39.6 | 0.798 | 1.451 | 125.6 | 182.5 | --- | 2.608 | 10.33 | 0.284 | 80.1 | 296.8 | 7.7 | 0.375 |
| 4-4640 | 4-4960 | 0.913 | 122.9 | 29.4 | 10.87 | 1.162 | 41.4 | 0.782 | 1.477 | 122.3 | 184.0 | --- | 2.631 | 9.83 | 0.299 | 76.2 | 297.3 | 7.7 | 0.368 |
| 4-4640 | 4-4980 | 0.884 | 124.6 | 28.9 | 9.98 | 1.168 | 43.2 | 0.767 | 1.504 | 118.9 | 185.3 | --- | 2.657 | 9.44 | 0.314 | 73.2 | 298.1 | 7.8 | 0.362 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4640 | 4-5000 | 0.856 | 126.4 | 28.4 | 9.16 | 1.173 | 44.9 | 0.752 | 1.533 | 115.6 | 186.7 | --- | 2.686 | 9.14 | 0.328 | 70.9 | 299.3 | 7.9 | 0.358 |
| 4-4640 | 4-5020 | 0.829 | 128.1 | 27.8 | 8.39 | 1.178 | 46.5 | 0.739 | 1.563 | 112.2 | 188.0 | --- | 2.717 | 8.92 | 0.341 | 69.1 | 300.8 | 8.0 | 0.355 |
| 4-4640 | 4-5040 | 0.803 | 129.8 | 27.1 | 7.66 | 1.184 | 48.1 | 0.726 | 1.593 | 108.9 | 189.2 | --- | 2.749 | 8.77 | 0.353 | 67.7 | 302.5 | 8.1 | 0.351 |
| 4-4640 | 4-5060 | 0.777 | 131.4 | 26.4 | 6.96 | 1.189 | 49.6 | 0.713 | 1.624 | 105.6 | 190.4 | --- | 2.783 | 8.68 | 0.364 | 66.6 | 304.4 | 8.3 | 0.349 |
| 4-4640 | 4-5080 | 0.752 | 133.1 | 25.6 | 6.27 | 1.193 | 51.1 | 0.702 | 1.655 | 102.2 | 191.6 | --- | 2.817 | 8.64 | 0.374 | 65.7 | 306.6 | 8.5 | 0.346 |
| 4-4640 | 4-5100 | 0.728 | 134.7 | 24.8 | 5.60 | 1.198 | 52.6 | 0.691 | 1.686 | 98.9 | 192.7 | --- | 2.851 | 8.66 | 0.383 | 65.0 | 308.9 | 8.7 | 0.344 |
| 4-4640 | 4-5120 | 0.704 | 136.2 | 23.8 | 4.92 | 1.203 | 54.0 | 0.681 | 1.717 | 95.6 | 193.8 | --- | 2.886 | 8.73 | 0.392 | 64.4 | 311.3 | 9.0 | 0.342 |
| 4-4640 | 4-5140 | 0.680 | 137.8 | 22.7 | 4.24 | 1.207 | 55.4 | 0.672 | 1.747 | 92.3 | 194.9 | --- | 2.921 | 8.85 | 0.399 | 63.9 | 313.9 | 9.3 | 0.341 |
| 4-4640 | 4-5160 | 0.657 | 139.3 | 21.5 | 3.54 | 1.211 | 56.8 | 0.663 | 1.778 | 89.0 | 195.9 | --- | 2.956 | 9.03 | 0.406 | 63.4 | 316.5 | 9.7 | 0.339 |
| 4-4640 | 4-5180 | 0.635 | 140.7 | 20.2 | 2.81 | 1.215 | 58.1 | 0.654 | 1.808 | 85.8 | 196.9 | --- | 2.991 | 9.27 | 0.412 | 63.0 | 319.3 | 10.1 | 0.337 |
| 4-4640 | 4-5200 | 0.613 | 142.1 | 18.6 | 2.06 | 1.218 | 59.4 | 0.647 | 1.837 | 82.5 | 197.8 | --- | 3.026 | 9.57 | 0.418 | 62.7 | 322.1 | 10.6 | 0.336 |
| 4-4640 | 4-5220 | 0.592 | 143.4 | 16.9 | 1.26 | 1.222 | 60.7 | 0.640 | 1.867 | 79.3 | 198.8 | --- | 3.061 | 9.93 | 0.424 | 62.4 | 325.0 | 11.2 | 0.335 |
| 4-4640 | 4-5240 | 0.572 | 144.7 | 14.9 | 0.40 | 1.225 | 61.9 | 0.633 | 1.895 | 76.2 | 199.7 | --- | 3.096 | 10.38 | 0.429 | 62.1 | 328.0 | 11.8 | 0.334 |
| 4-4640 | 4-5260 | 0.552 | 145.8 | 12.6 | -0.54 | 1.228 | 63.1 | 0.627 | 1.924 | 73.0 | 200.6 | --- | 3.130 | 10.93 | 0.433 | 61.9 | 331.0 | 12.6 | 0.333 |
| 4-4640 | 4-5280 | 0.534 | 146.8 | 9.9 | -1.57 | 1.231 | 64.3 | 0.622 | 1.951 | 69.9 | 201.5 | --- | 3.165 | 11.58 | 0.438 | 61.6 | 334.2 | 13.4 | 0.333 |
| 4-4640 | 4-5300 | 0.517 | 147.6 | 6.8 | -2.72 | 1.234 | 65.5 | 0.617 | 1.979 | 66.8 | 202.3 | --- | 3.199 | 12.38 | 0.442 | 61.4 | 337.3 | 14.4 | 0.333 |
| 4-4640 | 4-5320 | 0.502 | 148.1 | 3.2 | -4.04 | 1.237 | 66.6 | 0.612 | 2.005 | 63.7 | 203.1 | --- | 3.234 | 13.35 | 0.446 | 61.1 | 340.6 | 15.6 | 0.335 |
| 4-4640 | 4-5340 | 0.490 | 148.3 | -1.1 | -5.56 | 1.240 | 67.8 | 0.609 | 2.032 | 60.7 | 204.0 | --- | 3.268 | 14.54 | 0.449 | 60.9 | 344.0 | 17.0 | 0.336 |
| 4-4640 | 4-5360 | 0.483 | 148.0 | -6.2 | -7.37 | 1.242 | 68.9 | 0.605 | 2.057 | 57.7 | 204.8 | --- | 3.302 | 16.03 | 0.453 | 60.6 | 347.5 | 18.7 | 0.340 |
| 4-4640 | 4-5380 | 0.481 | 147.0 | -12.1 | -9.57 | 1.244 | 69.9 | 0.602 | 2.082 | 54.8 | 205.6 | --- | 3.336 | 17.91 | 0.456 | 60.4 | 351.2 | 20.7 | 0.345 |
| 4-4640 | 4-5400 | 0.490 | 144.9 | -18.9 | -12.31 | 1.247 | 71.0 | 0.599 | 2.107 | 52.0 | 206.4 | --- | 3.370 | 20.34 | 0.460 | 60.1 | 355.1 | 23.1 | 0.353 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

# EARTH-VESTA TRAJECTORY DATA

# FOR THE YEARS 1969-1980

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 380 | 4- 600 | 0.821 | 78.1 | 18.2 | -4.12 | 1.253 | 130.3 | 0.789 | 2.496 | 264.7 | 501.3 | 0.526 | --- | -3.98 | 0.644 | 142.1 | 217.3 | -2.6 | 0.604 |
| 4- 380 | 4- 620 | 0.759 | 78.1 | 17.2 | -4.52 | 1.217 | 127.9 | 0.731 | 2.039 | 265.0 | 506.6 | 0.549 | --- | -3.77 | 0.575 | 135.9 | 218.5 | -2.9 | 0.520 |
| 4- 380 | 4- 640 | 0.711 | 78.1 | 16.3 | -4.89 | 1.190 | 125.9 | 0.685 | 1.803 | 265.1 | 511.9 | 0.567 | --- | -3.61 | 0.522 | 129.2 | 219.0 | -3.3 | 0.449 |
| 4- 380 | 4- 660 | 0.675 | 78.1 | 15.5 | -5.23 | 1.170 | 124.4 | 0.651 | 1.665 | 265.2 | 517.2 | 0.582 | --- | -3.49 | 0.483 | 122.2 | 218.8 | -3.7 | 0.390 |
| 4- 380 | 4- 680 | 0.650 | 78.3 | 14.7 | -5.56 | 1.156 | 123.3 | 0.625 | 1.578 | 265.2 | 522.4 | 0.592 | --- | -3.40 | 0.455 | 115.0 | 217.5 | -4.1 | 0.342 |
| 4- 380 | 4- 700 | 0.633 | 78.5 | 14.0 | -5.88 | 1.146 | 122.6 | 0.607 | 1.521 | 264.9 | 527.5 | 0.598 | --- | -3.35 | 0.437 | 107.8 | 215.0 | -4.6 | 0.304 |
| 4- 380 | 4- 720 | 0.623 | 78.8 | 13.4 | -6.20 | 1.139 | 122.2 | 0.596 | 1.484 | 264.4 | 532.5 | 0.599 | --- | -3.32 | 0.426 | 100.8 | 211.3 | -5.1 | 0.275 |
| 4- 380 | 4- 740 | 0.622 | 79.3 | 13.0 | -6.53 | 1.134 | 122.2 | 0.592 | 1.459 | 263.6 | 537.2 | 0.596 | --- | -3.33 | 0.421 | 94.0 | 206.6 | -5.4 | 0.257 |
| 4- 380 | 4- 760 | 0.627 | 80.0 | 12.6 | -6.86 | 1.130 | 122.5 | 0.593 | 1.444 | 262.4 | 541.7 | 0.687 | 2.301 | -3.36 | 0.421 | 87.5 | 201.3 | -5.7 | 0.250 |
| 4- 380 | 4- 780 | 0.639 | 80.8 | 12.5 | -7.21 | 1.129 | 123.3 | 0.601 | 1.435 | 260.8 | 545.8 | 0.573 | 2.297 | -3.44 | 0.425 | 81.4 | 196.3 | -5.7 | 0.253 |
| 4- 380 | 4- 800 | 0.659 | 81.9 | 12.5 | -7.58 | 1.128 | 124.4 | 0.614 | 1.432 | 258.7 | 549.5 | 0.553 | 2.311 | -3.55 | 0.431 | 75.6 | 192.2 | -5.6 | 0.267 |
| 4- 380 | 4- 820 | 0.686 | 83.3 | 12.6 | -7.99 | 1.128 | 125.9 | 0.633 | 1.432 | 255.9 | 552.7 | 0.526 | 2.338 | -3.72 | 0.440 | 70.0 | 189.6 | -5.3 | 0.289 |
| 4- 380 | 4- 840 | 0.722 | 84.9 | 12.9 | -8.46 | 1.129 | 128.0 | 0.657 | 1.436 | 252.6 | 555.4 | 0.492 | 2.380 | -3.95 | 0.449 | 64.5 | 188.7 | -5.0 | 0.320 |
| 4- 380 | 4- 860 | 0.767 | 86.9 | 13.3 | -9.00 | 1.130 | 130.6 | 0.688 | 1.442 | 248.5 | 557.4 | 0.449 | 2.435 | -4.27 | 0.460 | 59.0 | 189.3 | -4.7 | 0.358 |
| 4- 380 | 4- 880 | 0.823 | 89.2 | 13.9 | -9.66 | 1.132 | 133.8 | 0.725 | 1.451 | 243.6 | 558.7 | 0.398 | 2.504 | -4.71 | 0.470 | 53.4 | 191.3 | -4.4 | 0.403 |
| 4- 380 | 4- 900 | 0.890 | 92.0 | 14.5 | -10.48 | 1.134 | 137.8 | 0.768 | 1.462 | 237.8 | 559.2 | 0.339 | 2.586 | -5.32 | 0.481 | 47.4 | 194.6 | -4.1 | 0.455 |
| 4- 380 | 4- 920 | 0.970 | 95.3 | 15.1 | -11.58 | 1.137 | 142.5 | 0.816 | 1.476 | 230.9 | 558.6 | 0.271 | 2.680 | -6.22 | 0.492 | 41.0 | 199.1 | -3.9 | 0.515 |
| 4- 380 | 4- 940 | 1.064 | 99.0 | 15.8 | -13.17 | 1.140 | 148.2 | 0.866 | 1.491 | 223.0 | 557.1 | 0.199 | 2.783 | -7.61 | 0.503 | 34.0 | 204.7 | -3.7 | 0.583 |
| 4- 390 | 4- 610 | 0.789 | 85.9 | 17.3 | -4.88 | 1.258 | 128.3 | 0.782 | 2.586 | 269.3 | 498.8 | 0.685 | --- | -2.93 | 0.857 | 141.3 | 221.2 | -2.0 | 0.605 |
| 4- 390 | 4- 630 | 0.726 | 85.8 | 16.3 | -5.20 | 1.221 | 125.9 | 0.719 | 2.094 | 269.6 | 504.2 | 0.588 | --- | -2.73 | 0.589 | 135.3 | 222.6 | -2.2 | 0.520 |
| 4- 390 | 4- 650 | 0.678 | 85.7 | 15.4 | -5.48 | 1.194 | 123.9 | 0.671 | 1.844 | 269.8 | 509.6 | 0.607 | --- | -2.58 | 0.537 | 128.8 | 223.4 | -2.4 | 0.449 |
| 4- 390 | 4- 670 | 0.641 | 85.6 | 14.5 | -5.74 | 1.174 | 122.3 | 0.633 | 1.697 | 270.0 | 515.1 | 0.622 | --- | -2.46 | 0.498 | 122.1 | 223.4 | -2.7 | 0.389 |
| 4- 390 | 4- 690 | 0.614 | 85.6 | 13.7 | -5.98 | 1.160 | 121.2 | 0.605 | 1.605 | 270.1 | 520.5 | 0.634 | --- | -2.37 | 0.471 | 115.2 | 222.5 | -3.0 | 0.340 |
| 4- 390 | 4- 710 | 0.595 | 85.8 | 13.0 | -6.21 | 1.150 | 120.4 | 0.585 | 1.545 | 270.0 | 525.8 | 0.641 | --- | -2.30 | 0.452 | 108.4 | 220.4 | -3.3 | 0.300 |
| 4- 390 | 4- 730 | 0.584 | 86.0 | 12.4 | -6.44 | 1.142 | 119.9 | 0.572 | 1.506 | 269.6 | 530.9 | 0.644 | --- | -2.25 | 0.441 | 101.7 | 217.1 | -3.6 | 0.270 |
| 4- 390 | 4- 750 | 0.580 | 86.4 | 12.0 | -6.66 | 1.137 | 119.8 | 0.566 | 1.479 | 269.0 | 535.9 | 0.642 | --- | -2.23 | 0.436 | 95.3 | 212.7 | -3.9 | 0.250 |
| 4- 390 | 4- 770 | 0.583 | 86.9 | 11.8 | -6.88 | 1.133 | 120.0 | 0.565 | 1.463 | 267.9 | 540.6 | 0.636 | 2.290 | -2.23 | 0.436 | 89.3 | 207.5 | -4.1 | 0.239 |
| 4- 390 | 4- 790 | 0.592 | 87.7 | 11.7 | -7.11 | 1.131 | 120.5 | 0.570 | 1.453 | 266.5 | 544.9 | 0.624 | 2.281 | -2.25 | 0.439 | 83.5 | 202.2 | -4.1 | 0.239 |
| 4- 390 | 4- 810 | 0.608 | 88.7 | 11.7 | -7.35 | 1.131 | 121.5 | 0.581 | 1.448 | 264.5 | 548.9 | 0.607 | 2.290 | -2.30 | 0.445 | 78.1 | 197.8 | -4.0 | 0.249 |
| 4- 390 | 4- 830 | 0.631 | 89.9 | 11.9 | -7.60 | 1.130 | 122.8 | 0.597 | 1.448 | 262.1 | 552.4 | 0.584 | 2.312 | -2.38 | 0.452 | 72.9 | 194.6 | -3.8 | 0.267 |
| 4- 390 | 4- 850 | 0.661 | 91.4 | 12.3 | -7.88 | 1.131 | 124.5 | 0.618 | 1.451 | 259.0 | 555.4 | 0.554 | 2.348 | -2.49 | 0.461 | 67.9 | 193.1 | -3.6 | 0.294 |
| 4- 390 | 4- 870 | 0.700 | 93.2 | 12.8 | -8.20 | 1.132 | 126.8 | 0.646 | 1.456 | 255.3 | 557.8 | 0.516 | 2.397 | -2.64 | 0.470 | 62.8 | 193.1 | -3.4 | 0.327 |
| 4- 390 | 4- 890 | 0.748 | 95.4 | 13.3 | -8.57 | 1.134 | 129.6 | 0.679 | 1.464 | 250.8 | 559.6 | 0.470 | 2.459 | -2.88 | 0.480 | 57.7 | 194.7 | -3.2 | 0.368 |
| 4- 390 | 4- 910 | 0.807 | 98.0 | 13.9 | -9.02 | 1.136 | 133.0 | 0.719 | 1.474 | 245.4 | 560.6 | 0.414 | 2.534 | -3.16 | 0.489 | 52.3 | 197.5 | -3.0 | 0.415 |
| 4- 390 | 4- 930 | 0.878 | 101.0 | 14.6 | -9.58 | 1.138 | 137.2 | 0.764 | 1.486 | 239.2 | 560.7 | 0.350 | 2.622 | -3.58 | 0.499 | 46.6 | 201.4 | -2.8 | 0.469 |
| 4- 390 | 4- 950 | 0.961 | 104.5 | 15.2 | -10.34 | 1.141 | 142.2 | 0.814 | 1.500 | 231.9 | 559.8 | 0.278 | 2.723 | -4.20 | 0.509 | 40.3 | 206.5 | -2.6 | 0.530 |
| 4- 390 | 4- 970 | 1.059 | 108.5 | 15.8 | -11.43 | 1.144 | 148.1 | 0.867 | 1.517 | 223.5 | 557.8 | 0.202 | 2.832 | -5.16 | 0.518 | 33.3 | 212.6 | -2.4 | 0.599 |
| 4- 400 | 4- 620 | 0.756 | 93.5 | 15.5 | -5.88 | 1.262 | 126.3 | 0.774 | 2.666 | 273.8 | 496.5 | 0.603 | --- | -1.59 | 0.868 | 140.5 | 225.0 | -1.1 | 0.604 |
| 4- 400 | 4- 640 | 0.694 | 93.3 | 14.5 | -6.07 | 1.225 | 123.9 | 0.708 | 2.144 | 274.2 | 502.0 | 0.626 | --- | -1.46 | 0.601 | 134.6 | 226.5 | -1.2 | 0.519 |
| 4- 400 | 4- 660 | 0.645 | 93.1 | 13.5 | -6.24 | 1.198 | 121.9 | 0.656 | 1.880 | 274.6 | 507.5 | 0.646 | --- | -1.35 | 0.550 | 128.3 | 227.5 | -1.3 | 0.448 |
| 4- 400 | 4- 680 | 0.607 | 92.9 | 12.7 | -6.38 | 1.178 | 120.3 | 0.617 | 1.727 | 274.9 | 513.1 | 0.662 | --- | -1.27 | 0.512 | 121.8 | 227.8 | -1.4 | 0.388 |
| 4- 400 | 4- 700 | 0.579 | 92.8 | 11.9 | -6.52 | 1.164 | 119.1 | 0.587 | 1.631 | 275.1 | 518.7 | 0.674 | --- | -1.20 | 0.485 | 115.2 | 227.2 | -1.6 | 0.338 |
| 4- 400 | 4- 720 | 0.560 | 92.8 | 11.3 | -6.64 | 1.153 | 118.2 | 0.565 | 1.568 | 275.1 | 524.2 | 0.682 | --- | -1.15 | 0.466 | 108.7 | 225.5 | -1.7 | 0.297 |
| 4- 400 | 4- 740 | 0.547 | 92.9 | 10.8 | -6.75 | 1.146 | 117.7 | 0.550 | 1.526 | 274.8 | 529.5 | 0.686 | --- | -1.12 | 0.455 | 102.4 | 222.5 | -1.9 | 0.266 |
| 4- 400 | 4- 760 | 0.542 | 93.2 | 10.5 | -6.87 | 1.140 | 117.4 | 0.542 | 1.499 | 274.3 | 534.6 | 0.686 | --- | -1.09 | 0.450 | 96.3 | 218.3 | -2.0 | 0.243 |
| 4- 400 | 4- 780 | 0.542 | 93.7 | 10.3 | -6.98 | 1.137 | 117.6 | 0.540 | 1.481 | 273.4 | 539.5 | 0.682 | --- | -1.08 | 0.449 | 90.6 | 213.3 | -2.1 | 0.230 |
| 4- 400 | 4- 800 | 0.549 | 94.4 | 10.4 | -7.09 | 1.135 | 118.0 | 0.543 | 1.470 | 272.1 | 544.0 | 0.672 | 2.268 | -1.08 | 0.452 | 85.2 | 207.9 | -2.1 | 0.227 |
| 4- 400 | 4- 820 | 0.561 | 95.3 | 10.5 | -7.20 | 1.133 | 118.8 | 0.551 | 1.465 | 270.4 | 548.2 | 0.658 | 2.272 | -1.09 | 0.457 | 80.2 | 203.2 | -2.1 | 0.234 |
| 4- 400 | 4- 840 | 0.580 | 96.4 | 10.9 | -7.32 | 1.133 | 119.9 | 0.564 | 1.464 | 268.1 | 552.0 | 0.638 | 2.290 | -1.11 | 0.464 | 75.3 | 199.6 | -2.0 | 0.249 |
| 4- 400 | 4- 860 | 0.606 | 97.9 | 11.3 | -7.44 | 1.134 | 121.4 | 0.583 | 1.466 | 265.3 | 555.3 | 0.611 | 2.320 | -1.15 | 0.471 | 70.7 | 197.6 | -1.9 | 0.272 |
| 4- 400 | 4- 880 | 0.640 | 99.6 | 11.9 | -7.58 | 1.135 | 123.3 | 0.607 | 1.471 | 261.8 | 558.0 | 0.578 | 2.364 | -1.20 | 0.480 | 66.0 | 197.2 | -1.7 | 0.302 |
| 4- 400 | 4- 900 | 0.681 | 101.6 | 12.5 | -7.74 | 1.136 | 125.8 | 0.637 | 1.478 | 257.6 | 560.2 | 0.536 | 2.419 | -1.28 | 0.489 | 61.4 | 198.2 | -1.6 | 0.338 |
| 4- 400 | 4- 920 | 0.733 | 104.1 | 13.2 | -7.92 | 1.138 | 128.8 | 0.673 | 1.487 | 252.7 | 561.6 | 0.486 | 2.488 | -1.38 | 0.497 | 56.5 | 200.6 | -1.5 | 0.380 |
| 4- 400 | 4- 940 | 0.795 | 106.9 | 13.9 | -8.14 | 1.140 | 132.4 | 0.715 | 1.498 | 247.0 | 562.2 | 0.427 | 2.570 | -1.53 | 0.506 | 51.3 | 204.1 | -1.4 | 0.429 |
| 4- 400 | 4- 960 | 0.869 | 110.1 | 14.5 | -8.42 | 1.143 | 136.8 | 0.763 | 1.511 | 240.3 | 562.0 | 0.359 | 2.664 | -1.74 | 0.515 | 45.7 | 208.7 | -1.3 | 0.484 |
| 4- 400 | 4- 980 | 0.956 | 113.9 | 15.1 | -8.79 | 1.145 | 142.1 | 0.815 | 1.526 | 232.5 | 560.8 | 0.283 | 2.770 | -2.05 | 0.523 | 39.5 | 214.2 | -1.2 | 0.546 |
| 4- 400 | 4-1000 | 1.057 | 118.1 | 15.5 | -9.33 | 1.149 | 148.2 | 0.869 | 1.543 | 223.7 | 558.4 | 0.202 | 2.884 | -2.52 | 0.530 | 32.6 | 220.7 | -1.2 | 0.615 |
| 4- 410 | 4- 630 | 0.725 | 100.8 | 12.5 | -7.27 | 1.265 | 124.2 | 0.765 | 2.733 | 278.5 | 494.2 | 0.641 | --- | 0.17 | 0.677 | 139.6 | 228.6 | 0.1 | 0.601 |
| 4- 410 | 4- 650 | 0.662 | 100.4 | 11.6 | -7.25 | 1.229 | 121.8 | 0.696 | 2.186 | 279.0 | 499.8 | 0.665 | --- | 0.16 | 0.611 | 133.8 | 230.3 | 0.1 | 0.516 |
| 4- 410 | 4- 670 | 0.613 | 100.1 | 10.7 | -7.23 | 1.202 | 119.8 | 0.642 | 1.912 | 279.4 | 505.6 | 0.684 | --- | 0.14 | 0.561 | 127.7 | 231.4 | 0.1 | 0.445 |
| 4- 410 | 4- 690 | 0.575 | 99.9 | 10.0 | -7.21 | 1.182 | 118.2 | 0.600 | 1.753 | 279.9 | 511.3 | 0.701 | --- | 0.13 | 0.523 | 121.4 | 231.9 | 0.2 | 0.386 |
| 4- 410 | 4- 710 | 0.547 | 99.7 | 9.3 | -7.20 | 1.167 | 117.0 | 0.569 | 1.654 | 280.2 | 517.0 | 0.713 | --- | 0.12 | 0.497 | 115.0 | 231.5 | 0.2 | 0.335 |
| 4- 410 | 4- 730 | 0.526 | 99.6 | 8.8 | -7.18 | 1.157 | 116.1 | 0.546 | 1.589 | 280.3 | 522.7 | 0.722 | --- | 0.11 | 0.479 | 108.8 | 230.1 | 0.2 | 0.294 |
| 4- 410 | 4- 750 | 0.513 | 99.6 | 8.5 | -7.17 | 1.149 | 115.5 | 0.530 | 1.546 | 280.2 | 528.2 | 0.727 | --- | 0.11 | 0.468 | 102.7 | 227.5 | 0.2 | 0.261 |
| 4- 410 | 4- 770 | 0.505 | 99.8 | 8.3 | -7.16 | 1.144 | 115.2 | 0.520 | 1.517 | 279.8 | 533.5 | 0.728 | --- | 0.11 | 0.463 | 97.0 | 223.5 | 0.2 | 0.237 |
| 4- 410 | 4- 790 | 0.504 | 100.2 | 8.3 | -7.15 | 1.140 | 115.3 | 0.516 | 1.498 | 279.0 | 538.5 | 0.725 | --- | 0.10 | 0.462 | 91.6 | 218.6 | 0.2 | 0.223 |
| 4- 410 | 4- 810 | 0.508 | 100.8 | 8.5 | -7.14 | 1.138 | 115.6 | 0.518 | 1.487 | 277.8 | 543.2 | 0.717 | 2.256 | 0.10 | 0.464 | 86.6 | 213.3 | 0.2 | 0.218 |
| 4- 410 | 4- 830 | 0.518 | 101.7 | 8.8 | -7.13 | 1.137 | 116.2 | 0.524 | 1.481 | 276.2 | 547.6 | 0.705 | 2.256 | 0.10 | 0.469 | 81.8 | 208.3 | 0.2 | 0.222 |
| 4- 410 | 4- 850 | 0.534 | 102.8 | 9.3 | -7.12 | 1.136 | 117.2 | 0.535 | 1.479 | 274.1 | 551.6 | 0.687 | 2.270 | 0.10 | 0.475 | 77.3 | 204.4 | 0.2 | 0.235 |
| 4- 410 | 4- 870 | 0.556 | 104.2 | 9.9 | -7.11 | 1.137 | 118.5 | 0.551 | 1.481 | 271.4 | 555.1 | 0.664 | 2.297 | 0.10 | 0.482 | 73.0 | 202.0 | 0.2 | 0.255 |
| 4- 410 | 4- 890 | 0.585 | 105.8 | 10.6 | -7.09 | 1.137 | 120.2 | 0.573 | 1.485 | 268.2 | 558.1 | 0.635 | 2.335 | 0.11 | 0.489 | 68.7 | 201.2 | 0.2 | 0.281 |
| 4- 410 | 4- 910 | 0.621 | 107.8 | 11.3 | -7.08 | 1.139 | 122.4 | 0.599 | 1.492 | 264.3 | 560.5 | 0.598 | 2.388 | 0.11 | 0.497 | 64.4 | 201.9 | 0.2 | 0.313 |
| 4- 410 | 4- 930 | 0.666 | 110.2 | 12.1 | -7.07 | 1.140 | 125.0 | 0.632 | 1.500 | 259.7 | 562.3 | 0.553 | 2.448 | 0.12 | 0.505 | 60.0 | 203.9 | 0.2 | 0.351 |
| 4- 410 | 4- 950 | 0.720 | 112.9 | 12.9 | -7.05 | 1.142 | 128.2 | 0.670 | 1.511 | 254.4 | 563.4 | 0.499 | 2.523 | 0.13 | 0.513 | 55.4 | 207.0 | 0.1 | 0.395 |
| 4- 410 | 4- 970 | 0.785 | 116.0 | 13.6 | -7.03 | 1.145 | 132.0 | 0.714 | 1.523 | 248.2 | 563.7 | 0.436 | 2.610 | 0.15 | 0.521 | 50.4 | 211.2 | 0.1 | 0.444 |
| 4- 410 | 4- 990 | 0.863 | 119.5 | 14.2 | -7.00 | 1.147 | 136.6 | 0.763 | 1.537 | 241.1 | 563.1 | 0.364 | 2.710 | 0.17 | 0.528 | 44.8 | 216.3 | 0.1 | 0.500 |
| 4- 410 | 4-1010 | 0.953 | 123.4 | 14.6 | -6.96 | 1.150 | 142.1 | 0.817 | 1.553 | 233.0 | 561.5 | 0.284 | 2.821 | 0.20 | 0.534 | 38.7 | 222.3 | 0.1 | 0.562 |
| 4- 410 | 4-1030 | 1.057 | 127.8 | 14.8 | -6.91 | 1.153 | 148.4 | 0.872 | 1.571 | 223.8 | 558.9 | 0.202 | 2.939 | 0.24 | 0.541 | 31.9 | 229.1 | 0.1 | 0.631 |
| 4- 420 | 4- 640 | 0.697 | 107.7 | 7.8 | -9.34 | 1.268 | 122.1 | 0.756 | 2.783 | 283.3 | 492.1 | 0.679 | --- | 2.65 | 0.684 | 138.7 | 232.1 | 2.0 | 0.597 |
| 4- 420 | 4- 660 | 0.633 | 107.2 | 7.2 | -8.91 | 1.232 | 119.7 | 0.684 | 2.220 | 283.8 | 497.9 | 0.702 | --- | 2.29 | 0.619 | 132.9 | 233.9 | 2.0 | 0.513 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 420 | 4- 680 | 0.584 | 106.8 | 6.6 | -8.58 | 1.205 | 117.7 | 0.628 | 1.939 | 284.4 | 503.7 | 0.722 | --- | 2.02 | 0.570 | 126.9 | 235.1 | 2.1 | 0.442 |
| 4- 420 | 4- 700 | 0.545 | 106.4 | 6.1 | -8.31 | 1.185 | 116.1 | 0.584 | 1.776 | 284.9 | 509.6 | 0.738 | --- | 1.82 | 0.534 | 120.8 | 235.8 | 2.2 | 0.382 |
| 4- 420 | 4- 720 | 0.516 | 106.1 | 5.7 | -8.08 | 1.171 | 114.9 | 0.552 | 1.674 | 285.4 | 515.5 | 0.751 | --- | 1.67 | 0.508 | 114.7 | 235.6 | 2.3 | 0.332 |
| 4- 420 | 4- 740 | 0.494 | 105.9 | 5.4 | -7.89 | 1.160 | 114.0 | 0.527 | 1.607 | 285.6 | 521.3 | 0.760 | --- | 1.55 | 0.490 | 108.7 | 234.4 | 2.5 | 0.291 |
| 4- 420 | 4- 760 | 0.480 | 105.8 | 5.3 | -7.72 | 1.152 | 113.4 | 0.510 | 1.563 | 285.6 | 527.0 | 0.765 | --- | 1.46 | 0.480 | 102.9 | 232.0 | 2.6 | 0.257 |
| 4- 420 | 4- 780 | 0.471 | 106.0 | 5.4 | -7.56 | 1.147 | 113.1 | 0.500 | 1.533 | 285.3 | 532.4 | 0.767 | --- | 1.39 | 0.474 | 97.4 | 228.3 | 2.8 | 0.233 |
| 4- 420 | 4- 800 | 0.468 | 106.3 | 5.6 | -7.41 | 1.143 | 113.1 | 0.495 | 1.514 | 284.6 | 537.6 | 0.765 | --- | 1.34 | 0.473 | 92.3 | 223.5 | 2.9 | 0.217 |
| 4- 420 | 4- 820 | 0.471 | 106.9 | 6.1 | -7.27 | 1.141 | 113.3 | 0.495 | 1.502 | 283.6 | 542.5 | 0.759 | 2.245 | 1.38 | 0.475 | 87.6 | 218.2 | 2.9 | 0.210 |
| 4- 420 | 4- 840 | 0.478 | 107.7 | 6.6 | -7.13 | 1.140 | 113.9 | 0.500 | 1.496 | 282.1 | 547.0 | 0.748 | 2.243 | 1.28 | 0.479 | 83.1 | 213.1 | 2.9 | 0.212 |
| 4- 420 | 4- 860 | 0.491 | 108.8 | 7.3 | -6.99 | 1.140 | 114.7 | 0.509 | 1.494 | 280.1 | 551.2 | 0.733 | 2.254 | 1.28 | 0.485 | 78.9 | 209.0 | 2.7 | 0.223 |
| 4- 420 | 4- 880 | 0.510 | 110.2 | 8.1 | -6.85 | 1.140 | 115.9 | 0.523 | 1.495 | 277.5 | 554.8 | 0.713 | 2.277 | 1.29 | 0.491 | 74.8 | 206.3 | 2.5 | 0.240 |
| 4- 420 | 4- 900 | 0.535 | 111.9 | 9.0 | -6.71 | 1.141 | 117.4 | 0.542 | 1.499 | 274.4 | 558.0 | 0.687 | 2.312 | 1.32 | 0.498 | 70.9 | 205.2 | 2.3 | 0.264 |
| 4- 420 | 4- 920 | 0.567 | 113.9 | 9.9 | -6.55 | 1.142 | 119.3 | 0.566 | 1.506 | 270.8 | 560.7 | 0.654 | 2.357 | 1.36 | 0.506 | 67.0 | 205.6 | 2.2 | 0.293 |
| 4- 420 | 4- 940 | 0.606 | 116.2 | 10.8 | -6.38 | 1.143 | 121.6 | 0.594 | 1.514 | 266.5 | 562.8 | 0.614 | 2.414 | 1.43 | 0.513 | 63.0 | 207.3 | 2.0 | 0.327 |
| 4- 420 | 4- 960 | 0.654 | 118.9 | 11.7 | -6.19 | 1.145 | 124.4 | 0.629 | 1.524 | 261.5 | 564.3 | 0.566 | 2.482 | 1.52 | 0.520 | 58.8 | 210.1 | 1.8 | 0.366 |
| 4- 420 | 4- 980 | 0.711 | 121.8 | 12.4 | -5.97 | 1.147 | 127.8 | 0.669 | 1.535 | 255.7 | 565.0 | 0.509 | 2.562 | 1.65 | 0.526 | 54.3 | 214.0 | 1.7 | 0.411 |
| 4- 420 | 4-1000 | 0.779 | 125.2 | 13.1 | -5.70 | 1.150 | 131.8 | 0.715 | 1.549 | 249.2 | 565.0 | 0.442 | 2.655 | 1.83 | 0.533 | 49.4 | 218.7 | 1.6 | 0.461 |
| 4- 420 | 4-1020 | 0.860 | 128.9 | 13.5 | -5.36 | 1.153 | 136.6 | 0.765 | 1.563 | 241.7 | 564.0 | 0.367 | 2.760 | 2.09 | 0.536 | 44.0 | 224.2 | 1.5 | 0.516 |
| 4- 420 | 4-1040 | 0.953 | 133.0 | 13.8 | -4.90 | 1.155 | 142.2 | 0.820 | 1.580 | 233.3 | 562.1 | 0.285 | 2.875 | 2.47 | 0.544 | 37.9 | 230.5 | 1.4 | 0.578 |
| 4- 420 | 4-1060 | 1.058 | 137.5 | 13.8 | -4.23 | 1.159 | 148.6 | 0.875 | 1.599 | 223.9 | 559.2 | 0.201 | 2.997 | 3.06 | 0.548 | 31.2 | 287.6 | 1.3 | 0.646 |
| 4- 430 | 4- 650 | 0.678 | 114.2 | 0.4 | -12.71 | 1.270 | 119.9 | 0.745 | 2.813 | 288.1 | 490.2 | 0.717 | --- | 6.47 | 0.689 | 137.6 | 235.3 | 5.1 | 0.593 |
| 4- 430 | 4- 670 | 0.611 | 113.5 | 0.6 | -11.42 | 1.234 | 117.5 | 0.670 | 2.243 | 288.8 | 496.1 | 0.739 | --- | 5.30 | 0.626 | 132.0 | 237.2 | 4.8 | 0.509 |
| 4- 430 | 4- 690 | 0.559 | 113.0 | 0.7 | -10.51 | 1.208 | 115.6 | 0.613 | 1.959 | 289.5 | 502.1 | 0.759 | --- | 4.50 | 0.578 | 126.1 | 238.6 | 4.8 | 0.438 |
| 4- 430 | 4- 710 | 0.519 | 112.4 | 0.7 | -9.82 | 1.188 | 114.0 | 0.568 | 1.794 | 290.2 | 508.2 | 0.775 | --- | 3.94 | 0.542 | 120.1 | 239.4 | 4.9 | 0.379 |
| 4- 430 | 4- 730 | 0.489 | 112.0 | 0.8 | -9.27 | 1.174 | 112.8 | 0.535 | 1.691 | 290.7 | 514.2 | 0.787 | --- | 3.52 | 0.517 | 114.1 | 239.3 | 5.1 | 0.329 |
| 4- 430 | 4- 750 | 0.466 | 111.7 | 0.9 | -8.81 | 1.163 | 111.9 | 0.510 | 1.624 | 291.1 | 520.2 | 0.796 | --- | 3.21 | 0.500 | 108.4 | 238.3 | 5.3 | 0.287 |
| 4- 430 | 4- 770 | 0.450 | 111.6 | 1.2 | -8.42 | 1.156 | 111.3 | 0.492 | 1.579 | 291.2 | 526.0 | 0.802 | --- | 2.97 | 0.490 | 102.8 | 236.0 | 5.6 | 0.254 |
| 4- 430 | 4- 790 | 0.440 | 111.6 | 1.6 | -8.08 | 1.151 | 111.0 | 0.481 | 1.548 | 291.0 | 531.6 | 0.804 | --- | 2.78 | 0.485 | 97.6 | 232.5 | 5.9 | 0.229 |
| 4- 430 | 4- 810 | 0.435 | 112.0 | 2.2 | -7.76 | 1.147 | 110.9 | 0.475 | 1.529 | 290.4 | 536.9 | 0.803 | --- | 2.64 | 0.484 | 92.8 | 227.9 | 6.0 | 0.212 |
| 4- 430 | 4- 830 | 0.436 | 112.5 | 3.0 | -7.48 | 1.145 | 111.1 | 0.474 | 1.517 | 289.4 | 541.9 | 0.798 | 2.238 | 2.54 | 0.485 | 88.3 | 222.7 | 6.0 | 0.204 |
| 4- 430 | 4- 850 | 0.441 | 113.4 | 3.9 | -7.20 | 1.143 | 111.6 | 0.478 | 1.510 | 288.0 | 546.6 | 0.789 | 2.232 | 2.47 | 0.489 | 84.1 | 217.5 | 5.9 | 0.205 |
| 4- 430 | 4- 870 | 0.452 | 114.6 | 4.9 | -6.93 | 1.143 | 112.4 | 0.486 | 1.508 | 286.1 | 550.8 | 0.776 | 2.241 | 2.43 | 0.494 | 80.1 | 213.3 | 5.6 | 0.214 |
| 4- 430 | 4- 890 | 0.468 | 116.0 | 6.0 | -6.67 | 1.143 | 113.4 | 0.498 | 1.509 | 283.7 | 554.6 | 0.758 | 2.261 | 2.42 | 0.500 | 76.4 | 210.4 | 5.2 | 0.229 |
| 4- 430 | 4- 910 | 0.489 | 117.8 | 7.1 | -6.40 | 1.144 | 114.8 | 0.515 | 1.513 | 280.7 | 558.0 | 0.735 | 2.292 | 2.44 | 0.507 | 72.7 | 209.1 | 4.7 | 0.250 |
| 4- 430 | 4- 930 | 0.517 | 119.8 | 8.2 | -6.12 | 1.145 | 116.5 | 0.536 | 1.519 | 277.2 | 560.9 | 0.706 | 2.333 | 2.49 | 0.514 | 69.1 | 209.3 | 4.3 | 0.277 |
| 4- 430 | 4- 950 | 0.552 | 122.2 | 9.2 | -5.82 | 1.147 | 118.5 | 0.561 | 1.528 | 273.1 | 563.2 | 0.670 | 2.385 | 2.58 | 0.520 | 65.5 | 210.7 | 4.0 | 0.308 |
| 4- 430 | 4- 970 | 0.594 | 124.8 | 10.2 | -5.50 | 1.148 | 121.1 | 0.592 | 1.537 | 268.4 | 564.9 | 0.627 | 2.447 | 2.71 | 0.526 | 61.7 | 213.3 | 3.7 | 0.343 |
| 4- 430 | 4- 990 | 0.644 | 127.7 | 11.1 | -5.13 | 1.151 | 124.0 | 0.628 | 1.548 | 263.0 | 566.0 | 0.576 | 2.521 | 2.89 | 0.532 | 57.7 | 216.9 | 3.4 | 0.383 |
| 4- 430 | 4-1010 | 0.705 | 131.0 | 11.8 | -4.71 | 1.153 | 127.6 | 0.670 | 1.561 | 256.8 | 566.4 | 0.515 | 2.607 | 3.14 | 0.537 | 53.3 | 221.3 | 3.2 | 0.427 |
| 4- 430 | 4-1030 | 0.776 | 134.6 | 12.3 | -4.19 | 1.155 | 131.8 | 0.717 | 1.575 | 249.9 | 566.0 | 0.446 | 2.704 | 3.49 | 0.542 | 48.5 | 226.5 | 3.0 | 0.477 |
| 4- 430 | 4-1050 | 0.859 | 138.5 | 12.6 | -3.54 | 1.158 | 136.6 | 0.768 | 1.591 | 242.2 | 564.7 | 0.368 | 2.813 | 3.99 | 0.547 | 43.2 | 232.4 | 2.8 | 0.532 |
| 4- 430 | 4-1070 | 0.954 | 142.7 | 12.6 | -2.67 | 1.161 | 142.3 | 0.823 | 1.608 | 233.6 | 562.6 | 0.285 | 2.931 | 4.71 | 0.551 | 37.3 | 239.0 | 2.6 | 0.593 |
| 4- 440 | 4- 660 | 0.693 | 120.7 | -12.4 | -19.06 | 1.272 | 117.7 | 0.733 | 2.821 | 293.0 | 488.4 | 0.753 | --- | 13.30 | 0.692 | 136.5 | 237.7 | 10.6 | 0.596 |
| 4- 440 | 4- 680 | 0.608 | 119.4 | -9.6 | -15.60 | 1.236 | 115.3 | 0.656 | 2.255 | 293.9 | 494.5 | 0.775 | --- | 10.01 | 0.630 | 130.9 | 240.0 | 9.4 | 0.508 |
| 4- 440 | 4- 700 | 0.547 | 118.5 | -7.9 | -13.46 | 1.210 | 113.4 | 0.597 | 1.972 | 294.8 | 500.7 | 0.794 | --- | 8.04 | 0.584 | 125.1 | 241.6 | 8.8 | 0.436 |
| 4- 440 | 4- 720 | 0.501 | 117.8 | -6.8 | -11.99 | 1.191 | 111.9 | 0.552 | 1.807 | 295.6 | 507.0 | 0.810 | --- | 6.75 | 0.549 | 119.3 | 242.5 | 8.6 | 0.376 |
| 4- 440 | 4- 740 | 0.467 | 117.2 | -5.9 | -10.90 | 1.177 | 110.7 | 0.518 | 1.704 | 296.3 | 513.2 | 0.822 | --- | 5.85 | 0.525 | 113.5 | 242.6 | 8.6 | 0.326 |
| 4- 440 | 4- 760 | 0.442 | 116.8 | -5.0 | -10.05 | 1.167 | 109.8 | 0.493 | 1.637 | 296.8 | 519.3 | 0.830 | --- | 5.19 | 0.509 | 107.9 | 241.7 | 8.8 | 0.285 |
| 4- 440 | 4- 780 | 0.423 | 116.6 | -4.1 | -9.35 | 1.159 | 109.2 | 0.475 | 1.592 | 297.0 | 525.2 | 0.836 | --- | 4.70 | 0.499 | 102.6 | 239.6 | 9.1 | 0.251 |
| 4- 440 | 4- 800 | 0.411 | 116.7 | -3.1 | -8.76 | 1.154 | 108.9 | 0.463 | 1.562 | 296.9 | 531.0 | 0.838 | --- | 4.33 | 0.494 | 97.6 | 236.2 | 9.4 | 0.226 |
| 4- 440 | 4- 820 | 0.405 | 117.0 | -2.0 | -8.24 | 1.151 | 108.8 | 0.457 | 1.542 | 296.4 | 536.4 | 0.838 | --- | 4.05 | 0.493 | 93.0 | 231.7 | 9.6 | 0.209 |
| 4- 440 | 4- 840 | 0.403 | 117.6 | -0.7 | -7.78 | 1.148 | 109.0 | 0.455 | 1.530 | 295.5 | 541.5 | 0.833 | 2.227 | 3.83 | 0.495 | 88.7 | 226.6 | 9.5 | 0.200 |
| 4- 440 | 4- 860 | 0.407 | 118.6 | 0.6 | -7.35 | 1.147 | 109.4 | 0.458 | 1.524 | 294.1 | 546.2 | 0.826 | 2.222 | 3.68 | 0.498 | 84.8 | 221.5 | 9.2 | 0.200 |
| 4- 440 | 4- 880 | 0.415 | 119.8 | 2.0 | -6.94 | 1.147 | 110.1 | 0.465 | 1.522 | 292.3 | 550.6 | 0.814 | 2.230 | 3.58 | 0.503 | 81.1 | 217.2 | 8.6 | 0.207 |
| 4- 440 | 4- 900 | 0.429 | 121.4 | 3.4 | -6.55 | 1.147 | 111.1 | 0.476 | 1.523 | 289.9 | 554.5 | 0.798 | 2.248 | 3.52 | 0.509 | 77.6 | 214.3 | 7.9 | 0.221 |
| 4- 440 | 4- 920 | 0.447 | 123.3 | 4.8 | -6.16 | 1.148 | 112.3 | 0.490 | 1.527 | 287.0 | 558.0 | 0.778 | 2.276 | 3.50 | 0.515 | 74.2 | 212.8 | 7.3 | 0.240 |
| 4- 440 | 4- 940 | 0.472 | 125.5 | 6.2 | -5.76 | 1.149 | 113.8 | 0.509 | 1.533 | 283.6 | 561.0 | 0.753 | 2.314 | 3.53 | 0.521 | 70.9 | 212.8 | 6.6 | 0.264 |
| 4- 440 | 4- 960 | 0.502 | 127.9 | 7.4 | -5.36 | 1.150 | 115.7 | 0.532 | 1.541 | 279.7 | 563.4 | 0.721 | 2.361 | 3.61 | 0.527 | 67.5 | 214.2 | 6.0 | 0.292 |
| 4- 440 | 4- 980 | 0.539 | 130.6 | 8.6 | -4.92 | 1.152 | 118.0 | 0.560 | 1.551 | 275.1 | 566.4 | 0.683 | 2.419 | 3.73 | 0.532 | 64.1 | 216.6 | 5.5 | 0.324 |
| 4- 440 | 4-1000 | 0.584 | 133.6 | 9.6 | -4.45 | 1.154 | 120.6 | 0.592 | 1.562 | 270.0 | 568.8 | 0.637 | 2.487 | 3.92 | 0.538 | 60.5 | 219.9 | 5.1 | 0.359 |
| 4- 440 | 4-1020 | 0.638 | 136.8 | 10.3 | -3.92 | 1.156 | 123.8 | 0.630 | 1.574 | 264.2 | 567.5 | 0.583 | 2.565 | 4.19 | 0.542 | 56.6 | 224.1 | 4.8 | 0.399 |
| 4- 440 | 4-1040 | 0.701 | 140.3 | 10.9 | -3.30 | 1.159 | 127.5 | 0.672 | 1.588 | 257.8 | 567.5 | 0.520 | 2.655 | 4.56 | 0.546 | 52.4 | 229.0 | 4.4 | 0.444 |
| 4- 440 | 4-1060 | 0.775 | 144.1 | 11.3 | -2.56 | 1.161 | 131.7 | 0.720 | 1.603 | 250.6 | 566.8 | 0.449 | 2.757 | 5.06 | 0.550 | 47.7 | 234.5 | 4.2 | 0.493 |
| 4- 440 | 4-1080 | 0.860 | 148.1 | 11.3 | -1.62 | 1.164 | 136.7 | 0.772 | 1.619 | 242.7 | 565.3 | 0.370 | 2.869 | 5.78 | 0.553 | 42.5 | 240.7 | 3.9 | 0.547 |
| 4- 440 | 4-1100 | 0.956 | 152.4 | 11.1 | -0.37 | 1.167 | 142.4 | 0.826 | 1.637 | 233.9 | 562.9 | 0.285 | 2.989 | 6.81 | 0.556 | 36.7 | 247.5 | 3.7 | 0.605 |
| 4- 450 | 4- 670 | 0.843 | 131.0 | -34.8 | -34.44 | 1.272 | 115.5 | 0.720 | 2.806 | 297.8 | 487.1 | 0.787 | --- | 29.21 | 0.694 | 135.4 | 236.3 | 21.9 | 0.637 |
| 4- 450 | 4- 690 | 0.662 | 125.8 | -26.0 | -23.73 | 1.238 | 113.1 | 0.641 | 2.255 | 299.1 | 493.2 | 0.809 | --- | 18.71 | 0.633 | 129.8 | 241.2 | 17.4 | 0.522 |
| 4- 450 | 4- 710 | 0.564 | 123.7 | -20.8 | -18.47 | 1.212 | 111.2 | 0.581 | 1.977 | 300.3 | 499.6 | 0.828 | --- | 13.67 | 0.588 | 124.1 | 243.7 | 15.1 | 0.442 |
| 4- 450 | 4- 730 | 0.501 | 122.5 | -17.3 | -15.36 | 1.194 | 109.7 | 0.536 | 1.815 | 301.3 | 508.0 | 0.843 | --- | 10.78 | 0.555 | 118.3 | 245.1 | 14.0 | 0.378 |
| 4- 450 | 4- 750 | 0.457 | 121.6 | -14.8 | -13.28 | 1.180 | 108.5 | 0.502 | 1.714 | 302.1 | 512.4 | 0.854 | --- | 8.93 | 0.532 | 112.7 | 245.4 | 13.5 | 0.326 |
| 4- 450 | 4- 770 | 0.425 | 121.1 | -12.7 | -11.77 | 1.170 | 107.7 | 0.476 | 1.647 | 302.8 | 518.7 | 0.863 | --- | 7.67 | 0.516 | 107.3 | 244.6 | 13.4 | 0.284 |
| 4- 450 | 4- 790 | 0.403 | 120.8 | -10.8 | -10.61 | 1.163 | 107.1 | 0.459 | 1.603 | 303.1 | 524.8 | 0.868 | --- | 6.76 | 0.507 | 102.2 | 242.6 | 13.5 | 0.250 |
| 4- 450 | 4- 810 | 0.387 | 120.9 | -9.0 | -9.67 | 1.158 | 106.8 | 0.447 | 1.574 | 303.1 | 530.6 | 0.870 | --- | 6.09 | 0.503 | 97.5 | 239.4 | 13.6 | 0.224 |
| 4- 450 | 4- 830 | 0.378 | 121.2 | -7.1 | -8.88 | 1.154 | 106.7 | 0.440 | 1.554 | 302.6 | 536.1 | 0.870 | --- | 5.59 | 0.502 | 93.0 | 235.0 | 13.6 | 0.207 |
| 4- 450 | 4- 850 | 0.374 | 122.0 | -5.3 | -8.19 | 1.152 | 106.9 | 0.438 | 1.543 | 301.7 | 541.3 | 0.866 | 2.219 | 5.21 | 0.503 | 89.0 | 229.9 | 13.4 | 0.198 |
| 4- 450 | 4- 870 | 0.375 | 123.1 | -3.3 | -7.58 | 1.151 | 107.3 | 0.441 | 1.537 | 300.4 | 546.1 | 0.859 | 2.214 | 4.93 | 0.507 | 85.2 | 224.9 | 12.8 | 0.196 |
| 4- 450 | 4- 890 | 0.381 | 124.5 | -1.4 | -7.02 | 1.151 | 107.9 | 0.447 | 1.535 | 298.6 | 550.5 | 0.849 | 2.220 | 4.72 | 0.511 | 81.8 | 220.7 | 11.9 | 0.202 |
| 4- 450 | 4- 910 | 0.392 | 126.3 | 0.4 | -6.49 | 1.151 | 108.8 | 0.456 | 1.536 | 296.2 | 554.5 | 0.836 | 2.237 | 4.58 | 0.517 | 78.5 | 217.7 | 10.9 | 0.215 |
| 4- 450 | 4- 930 | 0.408 | 128.4 | 2.2 | -5.97 | 1.152 | 110.0 | 0.469 | 1.540 | 293.4 | 558.0 | 0.818 | 2.263 | 4.51 | 0.522 | 75.3 | 216.3 | 9.9 | 0.232 |
| 4- 450 | 4- 950 | 0.429 | 130.8 | 3.9 | -5.47 | 1.153 | 111.4 | 0.486 | 1.547 | 290.1 | 561.1 | 0.795 | 2.298 | 4.49 | 0.528 | 72.3 | 216.3 | 8.9 | 0.254 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 450 | 4- 970 | 0.457 | 133.4 | 5.4 | -4.96 | 1.154 | 113.1 | 0.507 | 1.555 | 286.2 | 563.7 | 0.767 | 2.342 | 4.53 | 0.533 | 69.2 | 217.5 | 8.1 | 0.279 |
| 4- 450 | 4- 990 | 0.490 | 136.3 | 6.8 | -4.43 | 1.156 | 115.1 | 0.531 | 1.564 | 281.8 | 565.8 | 0.733 | 2.395 | 4.62 | 0.538 | 66.1 | 219.8 | 7.4 | 0.308 |
| 4- 450 | 4-1010 | 0.530 | 139.4 | 7.9 | -3.87 | 1.158 | 117.5 | 0.560 | 1.575 | 276.9 | 567.3 | 0.693 | 2.458 | 4.79 | 0.543 | 62.9 | 223.0 | 6.8 | 0.340 |
| 4- 450 | 4-1030 | 0.578 | 142.7 | 8.8 | -3.26 | 1.160 | 120.3 | 0.594 | 1.587 | 271.4 | 568.3 | 0.644 | 2.530 | 5.04 | 0.547 | 59.4 | 227.0 | 6.3 | 0.376 |
| 4- 450 | 4-1050 | 0.634 | 146.1 | 9.4 | -2.58 | 1.162 | 123.6 | 0.633 | 1.601 | 265.3 | 568.7 | 0.588 | 2.613 | 5.30 | 0.550 | 55.7 | 231.7 | 5.9 | 0.416 |
| 4- 450 | 4-1070 | 0.700 | 149.8 | 9.8 | -1.79 | 1.165 | 127.4 | 0.676 | 1.615 | 258.6 | 568.5 | 0.524 | 2.707 | 5.85 | 0.553 | 51.6 | 236.9 | 5.5 | 0.459 |
| 4- 450 | 4-1090 | 0.775 | 153.7 | 9.9 | -0.85 | 1.167 | 131.8 | 0.724 | 1.631 | 251.3 | 567.5 | 0.451 | 2.811 | 6.50 | 0.556 | 47.0 | 242.8 | 5.2 | 0.507 |
| 4- 450 | 4-1110 | 0.861 | 157.7 | 9.7 | 0.34 | 1.170 | 136.8 | 0.775 | 1.648 | 243.2 | 565.8 | 0.371 | 2.925 | 7.40 | 0.558 | 41.9 | 249.2 | 4.9 | 0.559 |
| 4- 450 | 4-1130 | 0.958 | 161.9 | 9.2 | 1.91 | 1.173 | 142.4 | 0.828 | 1.667 | 234.4 | 563.3 | 0.287 | 3.048 | 8.70 | 0.559 | 36.2 | 256.1 | 4.7 | 0.615 |
| 4- 460 | 4- 700 | 0.927 | 141.1 | -50.6 | -44.14 | 1.238 | 111.0 | 0.626 | 2.243 | 304.0 | 492.4 | 0.839 | --- | 39.72 | 0.634 | 128.7 | 235.2 | 31.0 | 0.615 |
| 4- 460 | 4- 720 | 0.669 | 130.2 | -39.7 | -28.51 | 1.214 | 109.0 | 0.565 | 1.975 | 305.7 | 498.8 | 0.859 | --- | 24.36 | 0.591 | 122.9 | 243.0 | 25.4 | 0.476 |
| 4- 460 | 4- 740 | 0.544 | 126.8 | -32.2 | -21.19 | 1.196 | 107.5 | 0.520 | 1.818 | 307.1 | 505.4 | 0.873 | --- | 17.30 | 0.559 | 117.3 | 246.1 | 22.0 | 0.393 |
| 4- 460 | 4- 760 | 0.471 | 125.2 | -26.9 | -17.02 | 1.182 | 106.4 | 0.486 | 1.719 | 308.2 | 511.9 | 0.884 | --- | 13.39 | 0.537 | 111.8 | 247.2 | 20.2 | 0.334 |
| 4- 460 | 4- 780 | 0.424 | 124.3 | -22.8 | -14.30 | 1.173 | 105.5 | 0.461 | 1.655 | 309.0 | 518.4 | 0.892 | --- | 10.96 | 0.522 | 106.6 | 246.8 | 19.3 | 0.288 |
| 4- 460 | 4- 800 | 0.392 | 123.9 | -19.4 | -12.37 | 1.166 | 105.0 | 0.443 | 1.612 | 309.4 | 524.6 | 0.897 | --- | 9.33 | 0.514 | 101.6 | 245.0 | 18.8 | 0.252 |
| 4- 460 | 4- 820 | 0.370 | 124.0 | -16.3 | -10.90 | 1.161 | 104.7 | 0.432 | 1.583 | 309.5 | 530.5 | 0.899 | --- | 8.17 | 0.510 | 97.1 | 241.9 | 18.6 | 0.226 |
| 4- 460 | 4- 840 | 0.356 | 124.5 | -13.4 | -9.73 | 1.158 | 104.6 | 0.425 | 1.565 | 309.1 | 536.1 | 0.899 | --- | 7.33 | 0.509 | 92.9 | 237.6 | 18.2 | 0.207 |
| 4- 460 | 4- 860 | 0.349 | 125.4 | -10.6 | -8.76 | 1.156 | 104.8 | 0.423 | 1.554 | 308.2 | 541.3 | 0.896 | 2.212 | 6.70 | 0.511 | 89.0 | 232.7 | 17.6 | 0.197 |
| 4- 460 | 4- 880 | 0.347 | 126.8 | -8.0 | -7.91 | 1.155 | 105.2 | 0.425 | 1.548 | 306.9 | 546.1 | 0.890 | 2.206 | 6.23 | 0.514 | 85.5 | 227.8 | 16.6 | 0.195 |
| 4- 460 | 4- 900 | 0.350 | 128.5 | -5.4 | -7.17 | 1.155 | 105.8 | 0.430 | 1.547 | 305.0 | 550.6 | 0.881 | 2.213 | 5.88 | 0.519 | 82.2 | 223.7 | 15.3 | 0.200 |
| 4- 460 | 4- 920 | 0.358 | 130.6 | -2.9 | -6.48 | 1.155 | 106.6 | 0.439 | 1.549 | 302.7 | 554.5 | 0.869 | 2.228 | 5.63 | 0.524 | 79.1 | 220.9 | 13.9 | 0.211 |
| 4- 460 | 4- 940 | 0.372 | 133.0 | -0.6 | -5.84 | 1.156 | 107.7 | 0.451 | 1.553 | 299.9 | 558.1 | 0.853 | 2.253 | 5.47 | 0.529 | 76.2 | 219.5 | 12.5 | 0.227 |
| 4- 460 | 4- 960 | 0.390 | 135.7 | 1.4 | -5.22 | 1.157 | 109.0 | 0.466 | 1.560 | 296.8 | 561.2 | 0.833 | 2.286 | 5.38 | 0.534 | 73.4 | 219.5 | 11.2 | 0.246 |
| 4- 460 | 4- 980 | 0.415 | 138.6 | 3.3 | -4.62 | 1.158 | 110.6 | 0.484 | 1.568 | 292.8 | 563.9 | 0.808 | 2.327 | 5.35 | 0.539 | 70.6 | 220.7 | 10.1 | 0.270 |
| 4- 460 | 4-1000 | 0.444 | 141.7 | 4.8 | -4.01 | 1.160 | 112.5 | 0.507 | 1.578 | 288.5 | 566.1 | 0.778 | 2.377 | 5.40 | 0.544 | 67.8 | 223.0 | 9.2 | 0.296 |
| 4- 460 | 4-1020 | 0.481 | 145.0 | 6.1 | -3.38 | 1.162 | 114.7 | 0.533 | 1.589 | 283.7 | 567.8 | 0.743 | 2.435 | 5.52 | 0.548 | 64.8 | 226.1 | 8.4 | 0.325 |
| 4- 460 | 4-1040 | 0.523 | 148.4 | 7.1 | -2.71 | 1.164 | 117.2 | 0.563 | 1.601 | 278.4 | 569.0 | 0.700 | 2.502 | 5.72 | 0.551 | 61.8 | 229.9 | 7.8 | 0.357 |
| 4- 460 | 4-1060 | 0.574 | 151.9 | 7.8 | -1.98 | 1.166 | 120.1 | 0.597 | 1.614 | 272.7 | 569.7 | 0.650 | 2.578 | 6.01 | 0.554 | 58.4 | 234.4 | 7.2 | 0.392 |
| 4- 460 | 4-1080 | 0.633 | 155.6 | 8.2 | -1.18 | 1.168 | 123.5 | 0.636 | 1.628 | 266.3 | 569.7 | 0.592 | 2.665 | 6.42 | 0.556 | 54.8 | 239.5 | 6.8 | 0.431 |
| 4- 460 | 4-1100 | 0.700 | 159.3 | 8.3 | -0.25 | 1.171 | 127.4 | 0.680 | 1.644 | 259.4 | 569.2 | 0.527 | 2.761 | 6.97 | 0.558 | 50.8 | 245.0 | 6.4 | 0.473 |
| 4- 460 | 4-1120 | 0.777 | 163.2 | 8.2 | 0.86 | 1.174 | 131.7 | 0.727 | 1.660 | 251.9 | 568.0 | 0.453 | 2.867 | 7.73 | 0.559 | 46.4 | 251.1 | 6.0 | 0.519 |
| 4- 460 | 4-1140 | 0.864 | 167.2 | 7.7 | 2.24 | 1.176 | 136.7 | 0.777 | 1.678 | 243.8 | 566.1 | 0.374 | 2.982 | 8.77 | 0.560 | 41.4 | 257.6 | 5.7 | 0.568 |
| 4- 460 | 4-1160 | 0.960 | 171.4 | 7.0 | 4.05 | 1.179 | 142.3 | 0.829 | 1.697 | 235.1 | 563.6 | 0.291 | 3.103 | 10.26 | 0.561 | 36.0 | 264.6 | 5.4 | 0.621 |
| 4- 470 | 4- 730 | 1.047 | 155.0 | -63.7 | -54.04 | 1.215 | 107.1 | 0.551 | 1.965 | 310.6 | 498.4 | 0.883 | --- | 50.55 | 0.592 | 121.9 | 231.6 | 37.7 | 0.634 |
| 4- 470 | 4- 750 | 0.700 | 133.6 | -52.1 | -33.14 | 1.197 | 105.4 | 0.504 | 1.815 | 312.9 | 505.1 | 0.900 | --- | 29.96 | 0.562 | 116.2 | 243.0 | 33.5 | 0.456 |
| 4- 470 | 4- 770 | 0.539 | 128.2 | -42.7 | -23.58 | 1.184 | 104.2 | 0.470 | 1.721 | 314.4 | 511.8 | 0.911 | --- | 20.70 | 0.541 | 110.8 | 247.0 | 29.5 | 0.363 |
| 4- 470 | 4- 790 | 0.452 | 126.3 | -35.7 | -18.32 | 1.175 | 103.3 | 0.446 | 1.659 | 315.5 | 518.4 | 0.919 | --- | 15.75 | 0.527 | 105.7 | 247.7 | 27.0 | 0.303 |
| 4- 470 | 4- 810 | 0.398 | 125.7 | -30.1 | -14.98 | 1.169 | 102.8 | 0.429 | 1.618 | 316.1 | 524.7 | 0.923 | --- | 12.74 | 0.520 | 100.9 | 248.5 | 25.5 | 0.262 |
| 4- 470 | 4- 830 | 0.364 | 125.8 | -25.3 | -12.65 | 1.164 | 102.5 | 0.418 | 1.591 | 316.2 | 530.7 | 0.925 | --- | 10.76 | 0.516 | 96.6 | 243.7 | 24.4 | 0.232 |
| 4- 470 | 4- 850 | 0.342 | 126.5 | -21.0 | -10.90 | 1.161 | 102.5 | 0.412 | 1.573 | 315.8 | 536.4 | 0.925 | --- | 9.37 | 0.516 | 92.6 | 239.6 | 23.4 | 0.211 |
| 4- 470 | 4- 870 | 0.328 | 127.7 | -17.0 | -9.52 | 1.159 | 102.7 | 0.410 | 1.563 | 315.0 | 541.6 | 0.922 | 2.204 | 8.37 | 0.517 | 88.9 | 234.9 | 22.1 | 0.200 |
| 4- 470 | 4- 890 | 0.322 | 129.4 | -13.3 | -8.38 | 1.159 | 103.1 | 0.412 | 1.559 | 313.6 | 546.4 | 0.917 | 2.200 | 7.63 | 0.521 | 85.6 | 230.2 | 20.5 | 0.197 |
| 4- 470 | 4- 910 | 0.322 | 131.5 | -9.8 | -7.41 | 1.159 | 103.7 | 0.416 | 1.558 | 311.7 | 550.8 | 0.909 | 2.207 | 7.08 | 0.525 | 82.5 | 226.3 | 18.7 | 0.200 |
| 4- 470 | 4- 930 | 0.328 | 134.0 | -6.6 | -6.54 | 1.159 | 104.5 | 0.424 | 1.560 | 309.4 | 554.8 | 0.898 | 2.222 | 6.68 | 0.530 | 79.6 | 223.6 | 16.8 | 0.209 |
| 4- 470 | 4- 950 | 0.338 | 136.9 | -3.8 | -5.76 | 1.160 | 105.5 | 0.435 | 1.565 | 306.5 | 558.3 | 0.884 | 2.248 | 6.39 | 0.535 | 76.9 | 222.4 | 15.0 | 0.224 |
| 4- 470 | 4- 970 | 0.354 | 140.0 | -1.2 | -5.02 | 1.161 | 106.8 | 0.449 | 1.572 | 303.2 | 561.4 | 0.867 | 2.278 | 6.20 | 0.540 | 74.3 | 222.5 | 13.4 | 0.241 |
| 4- 470 | 4- 990 | 0.376 | 143.3 | 1.0 | -4.32 | 1.163 | 108.3 | 0.465 | 1.581 | 299.4 | 564.1 | 0.845 | 2.316 | 6.09 | 0.544 | 71.7 | 223.8 | 12.1 | 0.262 |
| 4- 470 | 4-1010 | 0.402 | 146.8 | 2.8 | -3.63 | 1.164 | 110.0 | 0.485 | 1.591 | 295.2 | 566.4 | 0.819 | 2.363 | 6.07 | 0.549 | 69.1 | 226.0 | 10.9 | 0.286 |
| 4- 470 | 4-1030 | 0.435 | 150.3 | 4.3 | -2.94 | 1.166 | 112.0 | 0.509 | 1.602 | 290.5 | 568.2 | 0.787 | 2.417 | 6.12 | 0.552 | 66.5 | 229.1 | 10.0 | 0.312 |
| 4- 470 | 4-1050 | 0.474 | 154.0 | 5.4 | -2.22 | 1.168 | 114.3 | 0.536 | 1.614 | 285.4 | 569.5 | 0.750 | 2.479 | 6.26 | 0.555 | 63.7 | 232.9 | 9.2 | 0.341 |
| 4- 470 | 4-1070 | 0.519 | 157.6 | 6.2 | -1.47 | 1.170 | 117.0 | 0.566 | 1.628 | 279.8 | 570.4 | 0.706 | 2.550 | 6.48 | 0.557 | 60.7 | 237.2 | 8.5 | 0.372 |
| 4- 470 | 4-1090 | 0.572 | 161.3 | 6.6 | -0.66 | 1.173 | 120.0 | 0.601 | 1.642 | 273.8 | 570.7 | 0.655 | 2.629 | 6.81 | 0.559 | 57.5 | 242.1 | 7.9 | 0.407 |
| 4- 470 | 4-1110 | 0.633 | 165.1 | 6.8 | 0.25 | 1.175 | 123.4 | 0.640 | 1.657 | 267.3 | 570.5 | 0.596 | 2.718 | 7.26 | 0.561 | 54.0 | 247.4 | 7.4 | 0.444 |
| 4- 470 | 4-1130 | 0.701 | 168.9 | 6.6 | 1.28 | 1.177 | 127.3 | 0.683 | 1.673 | 260.3 | 569.8 | 0.530 | 2.817 | 7.88 | 0.561 | 50.1 | 253.2 | 7.0 | 0.484 |
| 4- 470 | 4-1150 | 0.779 | 172.7 | 6.2 | 2.50 | 1.180 | 131.7 | 0.730 | 1.690 | 252.7 | 568.5 | 0.456 | 2.924 | 8.71 | 0.562 | 45.8 | 259.4 | 6.6 | 0.527 |
| 4- 470 | 4-1170 | 0.865 | 176.6 | 5.6 | 4.01 | 1.183 | 136.5 | 0.779 | 1.709 | 244.7 | 566.5 | 0.378 | 3.039 | 9.84 | 0.562 | 41.1 | 266.0 | 6.3 | 0.574 |
| 4- 480 | 4- 660 | 0.609 | 157.7 | 37.5 | 12.06 | 1.371 | 111.4 | 0.905 | 9.082 | 314.8 | 470.3 | 0.884 | --- | -16.12 | 0.851 | 141.0 | 245.2 | -11.5 | 0.743 |
| 4- 480 | 4- 680 | 0.572 | 166.8 | 47.6 | 16.46 | 1.311 | 108.7 | 0.761 | 3.712 | 316.4 | 476.9 | 0.885 | --- | -20.20 | 0.756 | 136.0 | 246.3 | -16.3 | 0.646 |
| 4- 480 | 4- 700 | 0.611 | 188.2 | 57.8 | 23.87 | 1.269 | 106.3 | 0.656 | 2.633 | 318.3 | 483.8 | 0.905 | --- | -27.29 | 0.684 | 130.7 | 245.3 | -23.9 | 0.588 |
| 4- 480 | 4- 720 | 0.801 | 226.9 | 57.8 | 38.44 | 1.237 | 104.1 | 0.578 | 2.184 | 320.8 | 490.8 | 0.923 | --- | -41.55 | 0.630 | 125.1 | 238.6 | -34.5 | 0.605 |
| 4- 480 | 4- 780 | 0.744 | 134.7 | -62.7 | -37.32 | 1.186 | 102.1 | 0.456 | 1.718 | 320.6 | 512.1 | 0.934 | --- | 35.20 | 0.543 | 109.7 | 241.4 | 40.3 | 0.456 |
| 4- 480 | 4- 800 | 0.543 | 127.4 | -51.7 | -25.48 | 1.178 | 101.2 | 0.433 | 1.660 | 322.2 | 518.8 | 0.942 | --- | 23.70 | 0.531 | 104.7 | 246.3 | 36.5 | 0.347 |
| 4- 480 | 4- 820 | 0.438 | 125.7 | -43.1 | -19.16 | 1.171 | 100.7 | 0.416 | 1.621 | 323.0 | 525.2 | 0.946 | --- | 17.73 | 0.524 | 100.1 | 246.6 | 33.4 | 0.285 |
| 4- 480 | 4- 840 | 0.377 | 125.8 | -36.1 | -15.25 | 1.167 | 100.4 | 0.406 | 1.596 | 323.2 | 531.5 | 0.948 | --- | 14.19 | 0.521 | 95.9 | 244.5 | 31.1 | 0.246 |
| 4- 480 | 4- 860 | 0.339 | 126.8 | -30.0 | -12.57 | 1.165 | 100.4 | 0.401 | 1.580 | 322.9 | 536.9 | 0.947 | --- | 11.89 | 0.521 | 92.1 | 240.8 | 29.1 | 0.221 |
| 4- 480 | 4- 880 | 0.316 | 128.4 | -24.5 | -10.59 | 1.163 | 100.6 | 0.399 | 1.571 | 322.0 | 542.1 | 0.945 | 2.198 | 10.30 | 0.523 | 88.6 | 236.4 | 27.0 | 0.206 |
| 4- 480 | 4- 900 | 0.303 | 130.6 | -19.5 | -9.03 | 1.162 | 101.0 | 0.400 | 1.568 | 320.6 | 546.9 | 0.940 | 2.195 | 9.17 | 0.527 | 85.4 | 232.0 | 24.7 | 0.201 |
| 4- 480 | 4- 920 | 0.298 | 133.4 | -14.9 | -7.76 | 1.162 | 101.6 | 0.405 | 1.568 | 318.7 | 551.2 | 0.933 | 2.202 | 8.34 | 0.531 | 82.5 | 228.4 | 22.2 | 0.202 |
| 4- 480 | 4- 940 | 0.300 | 136.5 | -10.8 | -6.68 | 1.163 | 102.4 | 0.412 | 1.571 | 316.2 | 555.2 | 0.924 | 2.218 | 7.73 | 0.536 | 79.9 | 226.1 | 19.7 | 0.210 |
| 4- 480 | 4- 960 | 0.308 | 140.0 | -7.1 | -5.73 | 1.164 | 103.4 | 0.422 | 1.577 | 313.3 | 558.7 | 0.912 | 2.241 | 7.28 | 0.541 | 77.3 | 225.0 | 17.5 | 0.222 |
| 4- 480 | 4- 980 | 0.321 | 143.7 | -3.9 | -4.86 | 1.165 | 104.6 | 0.434 | 1.584 | 310.0 | 561.7 | 0.897 | 2.272 | 6.97 | 0.545 | 74.9 | 225.3 | 15.5 | 0.238 |
| 4- 480 | 4-1000 | 0.339 | 147.6 | -1.3 | -4.06 | 1.167 | 106.0 | 0.449 | 1.593 | 306.2 | 564.4 | 0.878 | 2.309 | 6.78 | 0.549 | 72.6 | 226.6 | 13.9 | 0.257 |
| 4- 480 | 4-1020 | 0.364 | 151.5 | 0.9 | -3.29 | 1.169 | 107.6 | 0.467 | 1.604 | 302.0 | 566.7 | 0.855 | 2.353 | 6.64 | 0.553 | 70.2 | 228.9 | 12.5 | 0.279 |
| 4- 480 | 4-1040 | 0.393 | 155.4 | 2.6 | -2.54 | 1.171 | 109.5 | 0.488 | 1.615 | 297.4 | 568.5 | 0.827 | 2.403 | 6.62 | 0.556 | 67.8 | 232.0 | 11.3 | 0.302 |
| 4- 480 | 4-1060 | 0.429 | 159.4 | 3.8 | -1.78 | 1.173 | 111.6 | 0.512 | 1.628 | 292.3 | 570.0 | 0.794 | 2.461 | 6.67 | 0.559 | 65.3 | 235.7 | 10.4 | 0.328 |
| 4- 480 | 4-1080 | 0.470 | 163.2 | 4.6 | -1.01 | 1.175 | 114.0 | 0.540 | 1.641 | 286.9 | 571.0 | 0.756 | 2.527 | 6.82 | 0.561 | 62.7 | 240.0 | 9.6 | 0.356 |
| 4- 480 | 4-1100 | 0.518 | 167.1 | 5.1 | -0.20 | 1.177 | 116.8 | 0.571 | 1.656 | 281.1 | 571.5 | 0.711 | 2.601 | 7.06 | 0.562 | 59.8 | 244.8 | 8.9 | 0.386 |
| 4- 480 | 4-1120 | 0.572 | 170.8 | 5.3 | 0.67 | 1.179 | 119.9 | 0.606 | 1.671 | 274.9 | 571.6 | 0.659 | 2.683 | 7.41 | 0.563 | 56.7 | 249.9 | 8.3 | 0.419 |
| 4- 480 | 4-1140 | 0.634 | 174.6 | 5.1 | 1.63 | 1.182 | 123.3 | 0.645 | 1.687 | 268.3 | 571.2 | 0.600 | 2.774 | 7.89 | 0.563 | 53.3 | 255.5 | 7.8 | 0.454 |
| 4- 480 | 4-1160 | 0.703 | 178.3 | 4.7 | 2.73 | 1.184 | 127.2 | 0.687 | 1.703 | 261.2 | 570.3 | 0.534 | 2.873 | 8.53 | 0.563 | 49.6 | 261.4 | 7.4 | 0.492 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 480 | 4-1180 | 0.780 | 182.1 | 4.1 | 4.01 | 1.187 | 131.5 | 0.732 | 1.721 | 253.7 | 568.8 | 0.461 | 2.981 | 9.39 | 0.563 | 45.5 | 267.6 | 7.1 | 0.533 |
| 4- 490 | 4- 650 | 0.630 | 156.9 | 28.2 | 7.94 | 1.442 | 110.9 | 1.075 | 11.711 | 319.7 | 463.0 | 0.879 | --- | -11.72 | 0.957 | 144.1 | 246.5 | -7.8 | 0.843 |
| 4- 490 | 4- 670 | 0.542 | 159.9 | 35.0 | 9.98 | 1.363 | 108.1 | 0.876 | 7.259 | 321.2 | 469.6 | 0.899 | --- | -13.41 | 0.836 | 139.4 | 248.5 | -10.2 | 0.713 |
| 4- 490 | 4- 690 | 0.492 | 165.5 | 43.9 | 12.76 | 1.306 | 105.6 | 0.735 | 3.461 | 322.9 | 476.5 | 0.917 | --- | -15.84 | 0.745 | 134.4 | 250.0 | -13.7 | 0.612 |
| 4- 490 | 4- 710 | 0.487 | 177.1 | 54.2 | 16.84 | 1.265 | 103.4 | 0.633 | 2.540 | 325.0 | 483.8 | 0.932 | --- | -19.59 | 0.677 | 129.1 | 250.5 | -19.1 | 0.539 |
| 4- 490 | 4- 730 | 0.547 | 202.2 | 62.3 | 23.50 | 1.236 | 101.6 | 0.558 | 2.139 | 327.3 | 491.2 | 0.946 | --- | -25.90 | 0.626 | 123.6 | 248.9 | -27.1 | 0.500 |
| 4- 490 | 4- 750 | 0.730 | 238.7 | 59.8 | 36.04 | 1.214 | 99.9 | 0.502 | 1.923 | 330.0 | 498.7 | 0.958 | --- | -38.09 | 0.588 | 118.0 | 242.3 | -37.4 | 0.528 |
| 4- 490 | 4- 810 | 0.788 | 131.1 | -71.2 | -40.79 | 1.180 | 99.1 | 0.421 | 1.657 | 328.7 | 519.6 | 0.959 | --- | 39.80 | 0.533 | 103.6 | 239.2 | 44.9 | 0.470 |
| 4- 490 | 4- 830 | 0.547 | 123.6 | -58.4 | -26.75 | 1.174 | 98.5 | 0.405 | 1.622 | 330.1 | 526.1 | 0.964 | --- | 26.13 | 0.528 | 99.1 | 244.3 | 42.0 | 0.343 |
| 4- 490 | 4- 850 | 0.425 | 123.3 | -48.6 | -19.47 | 1.170 | 98.2 | 0.396 | 1.599 | 330.8 | 532.2 | 0.966 | --- | 19.23 | 0.525 | 95.1 | 244.1 | 38.6 | 0.276 |
| 4- 490 | 4- 870 | 0.357 | 124.8 | -40.3 | -15.08 | 1.168 | 98.2 | 0.391 | 1.585 | 330.3 | 537.8 | 0.966 | --- | 15.23 | 0.526 | 91.4 | 241.3 | 35.3 | 0.239 |
| 4- 490 | 4- 890 | 0.316 | 127.1 | -33.1 | -12.12 | 1.167 | 98.5 | 0.389 | 1.578 | 329.3 | 542.9 | 0.963 | 2.192 | 12.67 | 0.528 | 88.1 | 237.4 | 32.1 | 0.218 |
| 4- 490 | 4- 910 | 0.292 | 130.2 | -26.5 | -9.95 | 1.166 | 98.9 | 0.391 | 1.576 | 327.9 | 547.6 | 0.960 | 2.191 | 10.94 | 0.532 | 85.2 | 233.4 | 28.9 | 0.208 |
| 4- 490 | 4- 930 | 0.280 | 133.7 | -20.6 | -8.27 | 1.166 | 99.5 | 0.395 | 1.577 | 325.8 | 551.9 | 0.954 | 2.200 | 9.70 | 0.536 | 82.4 | 230.2 | 25.6 | 0.207 |
| 4- 490 | 4- 950 | 0.276 | 137.7 | -15.3 | -6.91 | 1.167 | 100.3 | 0.402 | 1.581 | 323.3 | 555.7 | 0.946 | 2.216 | 8.81 | 0.541 | 79.9 | 228.1 | 22.5 | 0.213 |
| 4- 490 | 4- 970 | 0.280 | 142.0 | -10.6 | -5.75 | 1.168 | 101.3 | 0.411 | 1.587 | 320.3 | 559.1 | 0.935 | 2.239 | 8.16 | 0.545 | 77.6 | 227.4 | 19.8 | 0.223 |
| 4- 490 | 4- 990 | 0.290 | 146.5 | -6.7 | -4.74 | 1.170 | 102.4 | 0.422 | 1.596 | 316.9 | 562.2 | 0.922 | 2.269 | 7.68 | 0.550 | 75.4 | 227.8 | 17.4 | 0.237 |
| 4- 490 | 4-1010 | 0.306 | 151.1 | -3.5 | -3.82 | 1.171 | 103.8 | 0.436 | 1.605 | 313.1 | 564.8 | 0.906 | 2.304 | 7.34 | 0.554 | 73.2 | 229.3 | 15.5 | 0.254 |
| 4- 490 | 4-1030 | 0.328 | 155.7 | -1.0 | -2.97 | 1.173 | 105.3 | 0.452 | 1.616 | 308.8 | 567.0 | 0.886 | 2.346 | 7.12 | 0.557 | 71.1 | 231.7 | 13.8 | 0.274 |
| 4- 490 | 4-1050 | 0.354 | 160.2 | 1.0 | -2.16 | 1.175 | 107.1 | 0.470 | 1.628 | 304.2 | 568.9 | 0.862 | 2.394 | 7.00 | 0.560 | 68.9 | 234.8 | 12.5 | 0.295 |
| 4- 490 | 4-1070 | 0.387 | 164.5 | 2.3 | -1.38 | 1.177 | 109.1 | 0.492 | 1.641 | 299.3 | 570.3 | 0.834 | 2.449 | 6.97 | 0.562 | 66.6 | 238.6 | 11.4 | 0.318 |
| 4- 490 | 4-1090 | 0.424 | 168.7 | 3.2 | -0.59 | 1.179 | 111.3 | 0.517 | 1.655 | 294.0 | 571.4 | 0.800 | 2.510 | 7.03 | 0.564 | 64.3 | 242.8 | 10.4 | 0.343 |
| 4- 490 | 4-1110 | 0.468 | 172.7 | 3.7 | 0.21 | 1.181 | 113.8 | 0.544 | 1.669 | 288.4 | 572.1 | 0.761 | 2.578 | 7.18 | 0.564 | 61.8 | 247.4 | 9.7 | 0.369 |
| 4- 490 | 4-1130 | 0.517 | 176.6 | 3.8 | 1.05 | 1.184 | 116.6 | 0.576 | 1.685 | 282.4 | 572.4 | 0.715 | 2.654 | 7.42 | 0.565 | 59.0 | 252.5 | 9.0 | 0.398 |
| 4- 490 | 4-1150 | 0.573 | 180.4 | 3.7 | 1.95 | 1.186 | 119.7 | 0.610 | 1.700 | 276.1 | 572.3 | 0.663 | 2.738 | 7.76 | 0.565 | 56.0 | 257.8 | 8.5 | 0.429 |
| 4- 490 | 4-1170 | 0.635 | 184.1 | 3.3 | 2.94 | 1.188 | 123.1 | 0.648 | 1.717 | 269.4 | 571.7 | 0.604 | 2.830 | 8.26 | 0.565 | 52.8 | 263.5 | 8.0 | 0.462 |
| 4- 490 | 4-1190 | 0.704 | 187.7 | 2.6 | 4.05 | 1.191 | 127.0 | 0.689 | 1.734 | 262.3 | 570.7 | 0.539 | 2.930 | 8.90 | 0.564 | 49.2 | 269.5 | 7.6 | 0.498 |
| 4- 500 | 4- 660 | 0.564 | 159.8 | 27.6 | 7.19 | 1.428 | 107.2 | 1.036 | 25.099 | 326.3 | 462.5 | 0.914 | --- | -10.31 | 0.935 | 142.5 | 249.4 | -7.2 | 0.808 |
| 4- 500 | 4- 680 | 0.480 | 161.8 | 34.2 | 8.70 | 1.353 | 104.6 | 0.842 | 5.883 | 328.1 | 469.4 | 0.931 | --- | -11.45 | 0.819 | 137.8 | 251.4 | -9.2 | 0.681 |
| 4- 500 | 4- 700 | 0.429 | 165.4 | 42.6 | 10.64 | 1.299 | 102.3 | 0.705 | 3.204 | 330.1 | 476.7 | 0.945 | --- | -13.02 | 0.732 | 132.7 | 253.0 | -12.0 | 0.581 |
| 4- 500 | 4- 720 | 0.410 | 172.4 | 52.3 | 13.25 | 1.261 | 100.4 | 0.607 | 2.436 | 332.4 | 484.3 | 0.957 | --- | -15.27 | 0.667 | 127.3 | 254.0 | -16.1 | 0.504 |
| 4- 500 | 4- 740 | 0.429 | 187.3 | 61.8 | 17.03 | 1.233 | 98.7 | 0.536 | 2.085 | 334.9 | 492.1 | 0.967 | --- | -18.68 | 0.619 | 121.9 | 253.9 | -22.0 | 0.450 |
| 4- 500 | 4- 760 | 0.503 | 216.8 | 67.0 | 23.06 | 1.213 | 97.3 | 0.485 | 1.892 | 337.4 | 499.9 | 0.975 | --- | -24.35 | 0.584 | 116.4 | 251.6 | -30.3 | 0.427 |
| 4- 500 | 4- 780 | 0.677 | 250.4 | 62.1 | 34.09 | 1.199 | 96.1 | 0.447 | 1.775 | 340.0 | 507.5 | 0.981 | --- | -35.02 | 0.560 | 111.1 | 244.7 | -40.3 | 0.464 |
| 4- 500 | 4- 800 | 1.070 | 269.6 | 45.9 | 57.75 | 1.188 | 94.8 | 0.419 | 1.700 | 343.5 | 515.2 | 0.988 | --- | -58.31 | 0.544 | 105.9 | 230.7 | -44.7 | 0.633 |
| 4- 500 | 4- 840 | 0.824 | 117.1 | -77.2 | -43.34 | 1.176 | 96.5 | 0.397 | 1.620 | 336.9 | 527.3 | 0.977 | --- | 43.53 | 0.530 | 98.1 | 237.7 | 47.6 | 0.490 |
| 4- 500 | 4- 860 | 0.546 | 116.7 | -62.6 | -27.27 | 1.173 | 96.1 | 0.388 | 1.600 | 338.0 | 533.4 | 0.980 | --- | 27.84 | 0.529 | 94.1 | 241.9 | 45.7 | 0.344 |
| 4- 500 | 4- 880 | 0.410 | 119.6 | -51.6 | -19.20 | 1.171 | 96.1 | 0.383 | 1.588 | 337.9 | 539.0 | 0.979 | --- | 20.16 | 0.530 | 90.6 | 240.9 | 41.8 | 0.274 |
| 4- 500 | 4- 900 | 0.335 | 123.2 | -42.4 | -14.44 | 1.170 | 96.3 | 0.382 | 1.583 | 336.9 | 544.0 | 0.978 | 2.188 | 15.81 | 0.533 | 87.5 | 237.8 | 37.5 | 0.238 |
| 4- 500 | 4- 920 | 0.293 | 127.4 | -34.2 | -11.29 | 1.170 | 96.8 | 0.384 | 1.582 | 335.4 | 548.6 | 0.975 | 2.189 | 13.08 | 0.536 | 84.7 | 234.4 | 33.2 | 0.221 |
| 4- 500 | 4- 940 | 0.269 | 132.2 | -26.7 | -9.01 | 1.170 | 97.4 | 0.388 | 1.584 | 333.2 | 552.7 | 0.970 | 2.199 | 11.25 | 0.541 | 82.2 | 231.6 | 29.0 | 0.216 |
| 4- 500 | 4- 960 | 0.258 | 137.3 | -20.1 | -7.26 | 1.171 | 98.2 | 0.394 | 1.590 | 330.6 | 556.4 | 0.963 | 2.216 | 9.98 | 0.545 | 79.8 | 229.9 | 25.2 | 0.218 |
| 4- 500 | 4- 980 | 0.256 | 142.8 | -14.3 | -5.84 | 1.172 | 99.2 | 0.402 | 1.597 | 327.5 | 559.7 | 0.955 | 2.239 | 9.03 | 0.550 | 77.7 | 229.5 | 21.9 | 0.226 |
| 4- 500 | 4-1000 | 0.263 | 148.3 | -9.4 | -4.65 | 1.174 | 100.3 | 0.412 | 1.606 | 324.0 | 562.7 | 0.944 | 2.268 | 8.35 | 0.554 | 75.6 | 230.2 | 19.1 | 0.238 |
| 4- 500 | 4-1020 | 0.276 | 153.9 | -5.5 | -3.61 | 1.176 | 101.6 | 0.425 | 1.617 | 320.1 | 565.2 | 0.930 | 2.303 | 7.86 | 0.558 | 73.6 | 231.9 | 16.8 | 0.253 |
| 4- 500 | 4-1040 | 0.294 | 159.2 | -2.5 | -2.67 | 1.177 | 103.1 | 0.439 | 1.628 | 315.8 | 567.4 | 0.914 | 2.343 | 7.51 | 0.561 | 71.7 | 234.4 | 14.9 | 0.270 |
| 4- 500 | 4-1060 | 0.319 | 164.4 | -0.4 | -1.81 | 1.179 | 104.8 | 0.456 | 1.641 | 311.2 | 569.2 | 0.893 | 2.389 | 7.29 | 0.563 | 69.7 | 237.6 | 13.4 | 0.289 |
| 4- 500 | 4-1080 | 0.348 | 169.3 | 1.1 | -0.99 | 1.182 | 106.6 | 0.475 | 1.654 | 306.3 | 570.7 | 0.868 | 2.440 | 7.16 | 0.565 | 67.7 | 241.3 | 12.1 | 0.310 |
| 4- 500 | 4-1100 | 0.383 | 173.8 | 2.1 | -0.19 | 1.184 | 108.7 | 0.497 | 1.668 | 301.1 | 571.8 | 0.839 | 2.498 | 7.13 | 0.566 | 65.6 | 245.5 | 11.1 | 0.332 |
| 4- 500 | 4-1120 | 0.423 | 178.2 | 2.5 | 0.60 | 1.186 | 111.0 | 0.522 | 1.683 | 295.8 | 572.6 | 0.805 | 2.562 | 7.18 | 0.567 | 63.3 | 250.1 | 10.3 | 0.355 |
| 4- 500 | 4-1140 | 0.468 | 182.2 | 2.6 | 1.41 | 1.188 | 113.6 | 0.550 | 1.699 | 289.8 | 573.1 | 0.765 | 2.632 | 7.32 | 0.567 | 60.9 | 255.0 | 9.6 | 0.381 |
| 4- 500 | 4-1160 | 0.518 | 186.1 | 2.4 | 2.25 | 1.190 | 116.4 | 0.580 | 1.714 | 283.7 | 573.1 | 0.719 | 2.709 | 7.56 | 0.567 | 58.3 | 260.2 | 9.0 | 0.407 |
| 4- 500 | 4-1180 | 0.574 | 189.8 | 1.9 | 3.14 | 1.193 | 119.5 | 0.614 | 1.731 | 277.3 | 572.8 | 0.668 | 2.794 | 7.90 | 0.566 | 55.5 | 265.7 | 8.4 | 0.436 |
| 4- 500 | 4-1200 | 0.636 | 193.4 | 1.3 | 4.11 | 1.195 | 122.9 | 0.651 | 1.748 | 270.6 | 572.1 | 0.610 | 2.886 | 8.37 | 0.565 | 52.3 | 271.5 | 8.0 | 0.467 |
| 4- 510 | 4- 650 | 0.614 | 160.5 | 23.0 | 5.70 | 1.514 | 105.8 | 1.267 | -3.487 | 331.9 | 465.6 | 0.931 | --- | -8.51 | 1.057 | 145.2 | 250.0 | -5.5 | 0.928 |
| 4- 510 | 4- 670 | 0.501 | 161.4 | 28.1 | 6.69 | 1.412 | 103.2 | 0.990 | 90.194 | 333.5 | 462.4 | 0.945 | --- | -9.10 | 0.909 | 140.8 | 252.1 | -6.8 | 0.771 |
| 4- 510 | 4- 690 | 0.424 | 162.4 | 34.9 | 7.87 | 1.342 | 100.8 | 0.802 | 4.841 | 335.6 | 469.8 | 0.957 | --- | -9.88 | 0.799 | 136.0 | 254.0 | -8.5 | 0.647 |
| 4- 510 | 4- 710 | 0.376 | 164.2 | 43.2 | 9.30 | 1.291 | 98.8 | 0.672 | 2.952 | 338.0 | 477.6 | 0.968 | --- | -10.93 | 0.716 | 130.9 | 255.6 | -10.8 | 0.550 |
| 4- 510 | 4- 730 | 0.354 | 168.1 | 52.6 | 11.12 | 1.255 | 97.1 | 0.580 | 2.326 | 340.7 | 485.6 | 0.976 | --- | -12.36 | 0.655 | 125.5 | 256.7 | -14.0 | 0.473 |
| 4- 510 | 4- 750 | 0.358 | 176.8 | 62.2 | 13.54 | 1.230 | 95.7 | 0.515 | 2.024 | 343.3 | 493.7 | 0.983 | --- | -14.42 | 0.610 | 120.0 | 256.9 | -18.5 | 0.414 |
| 4- 510 | 4- 770 | 0.393 | 196.5 | 69.9 | 17.02 | 1.211 | 94.5 | 0.468 | 1.855 | 345.8 | 501.7 | 0.987 | --- | -17.52 | 0.578 | 114.6 | 255.9 | -24.9 | 0.376 |
| 4- 510 | 4- 790 | 0.472 | 231.3 | 71.8 | 22.47 | 1.198 | 93.6 | 0.434 | 1.751 | 348.2 | 509.5 | 0.991 | --- | -22.61 | 0.557 | 109.4 | 252.7 | -33.5 | 0.366 |
| 4- 510 | 4- 810 | 0.635 | 261.7 | 65.0 | 32.28 | 1.189 | 92.8 | 0.411 | 1.685 | 350.4 | 517.0 | 0.993 | --- | -32.04 | 0.543 | 104.5 | 245.7 | -42.9 | 0.410 |
| 4- 510 | 4- 830 | 0.992 | 277.9 | 49.6 | 53.26 | 1.182 | 92.0 | 0.394 | 1.642 | 353.1 | 524.2 | 0.995 | --- | -52.65 | 0.535 | 99.8 | 234.0 | -47.0 | 0.573 |
| 4- 510 | 4- 870 | 0.847 | 89.7 | -79.2 | -44.85 | 1.175 | 94.1 | 0.382 | 1.599 | 345.0 | 534.8 | 0.988 | --- | 46.22 | 0.531 | 93.2 | 237.4 | 48.8 | 0.509 |
| 4- 510 | 4- 890 | 0.536 | 108.5 | -63.9 | -26.97 | 1.173 | 93.9 | 0.378 | 1.590 | 345.6 | 540.4 | 0.988 | 2.191 | 28.73 | 0.533 | 89.8 | 239.8 | 47.6 | 0.347 |
| 4- 510 | 4- 910 | 0.389 | 115.8 | -52.3 | -18.32 | 1.173 | 94.2 | 0.377 | 1.586 | 344.8 | 545.4 | 0.987 | 2.185 | 20.47 | 0.536 | 86.8 | 238.0 | 43.0 | 0.275 |
| 4- 510 | 4- 930 | 0.312 | 122.1 | -42.2 | -13.35 | 1.173 | 94.6 | 0.379 | 1.587 | 343.1 | 549.8 | 0.985 | 2.189 | 15.91 | 0.540 | 84.1 | 235.2 | 37.6 | 0.241 |
| 4- 510 | 4- 950 | 0.269 | 128.4 | -33.2 | -10.10 | 1.174 | 95.3 | 0.383 | 1.591 | 340.9 | 553.8 | 0.982 | 2.200 | 13.09 | 0.545 | 81.8 | 232.8 | 32.4 | 0.228 |
| 4- 510 | 4- 970 | 0.246 | 135.0 | -25.0 | -7.79 | 1.175 | 96.1 | 0.389 | 1.598 | 338.1 | 557.3 | 0.977 | 2.218 | 11.22 | 0.549 | 79.6 | 231.5 | 27.8 | 0.226 |
| 4- 510 | 4- 990 | 0.237 | 141.9 | -17.9 | -6.02 | 1.176 | 97.1 | 0.396 | 1.606 | 334.8 | 560.5 | 0.970 | 2.242 | 9.91 | 0.553 | 77.6 | 231.4 | 23.8 | 0.231 |
| 4- 510 | 4-1010 | 0.239 | 148.8 | -12.0 | -4.60 | 1.178 | 98.2 | 0.405 | 1.616 | 331.2 | 563.3 | 0.961 | 2.271 | 8.98 | 0.557 | 75.7 | 232.4 | 20.5 | 0.240 |
| 4- 510 | 4-1030 | 0.248 | 155.5 | -7.2 | -3.41 | 1.180 | 99.5 | 0.416 | 1.627 | 327.2 | 565.7 | 0.950 | 2.305 | 8.30 | 0.561 | 73.9 | 234.3 | 17.9 | 0.253 |
| 4- 510 | 4-1050 | 0.264 | 162.0 | -3.7 | -2.38 | 1.182 | 100.9 | 0.429 | 1.640 | 322.9 | 567.8 | 0.936 | 2.343 | 7.81 | 0.564 | 72.1 | 236.9 | 15.8 | 0.268 |
| 4- 510 | 4-1070 | 0.286 | 168.0 | -1.2 | -1.45 | 1.184 | 102.5 | 0.444 | 1.653 | 318.2 | 569.6 | 0.919 | 2.387 | 7.48 | 0.566 | 70.3 | 240.2 | 14.1 | 0.285 |
| 4- 510 | 4-1090 | 0.313 | 173.6 | 0.4 | -0.60 | 1.186 | 104.3 | 0.461 | 1.667 | 313.3 | 571.1 | 0.898 | 2.436 | 7.24 | 0.567 | 68.5 | 244.0 | 12.7 | 0.303 |
| 4- 510 | 4-1110 | 0.345 | 178.7 | 1.3 | 0.21 | 1.188 | 106.2 | 0.481 | 1.682 | 308.2 | 572.2 | 0.873 | 2.490 | 7.11 | 0.568 | 66.6 | 248.2 | 11.5 | 0.323 |
| 4- 510 | 4-1130 | 0.381 | 183.4 | 1.7 | 0.99 | 1.190 | 108.4 | 0.503 | 1.697 | 302.7 | 573.1 | 0.844 | 2.550 | 7.07 | 0.569 | 64.6 | 252.7 | 10.6 | 0.343 |
| 4- 510 | 4-1150 | 0.422 | 187.8 | 1.7 | 1.76 | 1.193 | 110.7 | 0.527 | 1.712 | 297.1 | 573.6 | 0.809 | 2.615 | 7.12 | 0.569 | 62.5 | 257.6 | 9.8 | 0.366 |
| 4- 510 | 4-1170 | 0.468 | 191.8 | 1.4 | 2.54 | 1.195 | 113.3 | 0.555 | 1.729 | 291.2 | 573.8 | 0.770 | 2.687 | 7.25 | 0.568 | 60.2 | 262.7 | 9.2 | 0.389 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THBT1 | THBT2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 510 | 4-1190 | 0.519 | 195.6 | 0.9 | 3.35 | 1.197 | 116.1 | 0.585 | 1.745 | 285.1 | 573.7 | 0.725 | 2.766 | 7.48 | 0.567 | 57.7 | 288.0 | 8.6 | 0.414 |
| 4- 510 | 4-1210 | 0.575 | 199.2 | 0.2 | 4.20 | 1.199 | 119.2 | 0.618 | 1.762 | 278.7 | 573.3 | 0.674 | 2.858 | 7.78 | 0.566 | 55.0 | 273.6 | 8.2 | 0.441 |
| 4- 520 | 4- 660 | 0.545 | 161.2 | 24.2 | 5.56 | 1.490 | 101.3 | 1.199 | -4.832 | 339.3 | 455.8 | 0.959 | --- | -7.60 | 1.020 | 143.6 | 252.6 | -5.2 | 0.882 |
| 4- 520 | 4- 680 | 0.443 | 161.0 | 29.9 | 6.38 | 1.395 | 99.0 | 0.935 | 14.892 | 341.4 | 463.1 | 0.969 | --- | -8.00 | 0.880 | 139.1 | 254.5 | -6.3 | 0.730 |
| 4- 520 | 4- 700 | 0.375 | 160.6 | 37.1 | 7.31 | 1.328 | 96.9 | 0.759 | 4.048 | 344.0 | 471.0 | 0.978 | --- | -8.52 | 0.775 | 134.2 | 256.3 | -7.7 | 0.612 |
| 4- 520 | 4- 720 | 0.333 | 160.3 | 45.5 | 8.41 | 1.282 | 95.1 | 0.637 | 2.714 | 346.8 | 479.2 | 0.984 | --- | -9.22 | 0.698 | 128.9 | 257.7 | -9.7 | 0.518 |
| 4- 520 | 4- 740 | 0.313 | 160.9 | 54.7 | 9.73 | 1.249 | 93.6 | 0.553 | 2.212 | 349.8 | 487.7 | 0.989 | --- | -10.17 | 0.641 | 123.5 | 258.7 | -12.3 | 0.442 |
| 4- 520 | 4- 760 | 0.313 | 164.2 | 63.7 | 11.41 | 1.225 | 92.4 | 0.494 | 1.959 | 352.7 | 496.1 | 0.992 | --- | -11.48 | 0.599 | 118.0 | 258.9 | -15.9 | 0.383 |
| 4- 520 | 4- 780 | 0.331 | 174.1 | 72.0 | 13.63 | 1.208 | 91.5 | 0.452 | 1.813 | 355.2 | 504.3 | 0.993 | --- | -13.31 | 0.571 | 112.7 | 258.2 | -20.9 | 0.340 |
| 4- 520 | 4- 800 | 0.373 | 201.2 | 77.7 | 16.78 | 1.197 | 90.8 | 0.423 | 1.724 | 357.4 | 512.1 | 0.994 | --- | -16.10 | 0.552 | 107.6 | 256.0 | -27.6 | 0.314 |
| 4- 520 | 4- 820 | 0.450 | 245.2 | 76.8 | 21.69 | 1.188 | 90.3 | 0.404 | 1.667 | 359.1 | 519.5 | 0.994 | --- | -20.64 | 0.540 | 102.8 | 251.9 | -36.1 | 0.315 |
| 4- 520 | 4- 840 | 0.599 | 272.2 | 68.6 | 30.43 | 1.183 | 89.9 | 0.390 | 1.631 | 0.5 | 186.3 | --- | --- | -29.02 | 0.934 | 98.4 | 245.1 | -44.8 | 0.364 |
| 4- 520 | 4- 860 | 0.924 | 285.7 | 53.8 | 49.23 | 1.179 | 89.4 | 0.382 | 1.608 | 2.1 | 172.8 | --- | --- | -47.48 | 0.532 | 94.4 | 236.2 | -48.6 | 0.521 |
| 4- 520 | 4- 900 | 0.853 | 68.1 | -76.8 | -45.23 | 1.176 | 92.0 | 0.376 | 1.589 | 352.8 | 542.0 | 0.992 | 2.185 | 47.76 | 0.535 | 88.8 | 238.4 | 49.2 | 0.523 |
| 4- 520 | 4- 920 | 0.515 | 102.0 | -62.6 | -25.81 | 1.176 | 92.0 | 0.375 | 1.588 | 352.6 | 546.9 | 0.992 | 2.183 | 28.72 | 0.539 | 85.9 | 238.5 | 47.9 | 0.348 |
| 4- 520 | 4- 940 | 0.362 | 113.5 | -50.5 | -16.83 | 1.176 | 92.5 | 0.377 | 1.590 | 351.0 | 551.1 | 0.991 | 2.190 | 20.13 | 0.543 | 83.4 | 236.1 | 42.3 | 0.276 |
| 4- 520 | 4- 960 | 0.285 | 122.3 | -39.7 | -11.82 | 1.177 | 93.1 | 0.380 | 1.596 | 348.7 | 554.9 | 0.989 | 2.203 | 15.51 | 0.548 | 81.2 | 234.0 | 36.0 | 0.246 |
| 4- 520 | 4- 980 | 0.244 | 130.8 | -30.0 | -8.60 | 1.178 | 94.0 | 0.386 | 1.604 | 345.7 | 558.3 | 0.986 | 2.223 | 12.71 | 0.552 | 79.2 | 233.0 | 30.3 | 0.236 |
| 4- 520 | 4-1000 | 0.225 | 139.2 | -21.3 | -6.33 | 1.180 | 94.9 | 0.392 | 1.614 | 342.4 | 561.3 | 0.981 | 2.247 | 10.88 | 0.557 | 77.4 | 233.2 | 25.6 | 0.237 |
| 4- 520 | 4-1020 | 0.220 | 147.7 | -14.1 | -4.60 | 1.182 | 96.1 | 0.400 | 1.625 | 338.6 | 563.9 | 0.975 | 2.278 | 9.58 | 0.560 | 75.6 | 234.4 | 21.7 | 0.244 |
| 4- 520 | 4-1040 | 0.225 | 156.0 | -8.4 | -3.23 | 1.184 | 97.3 | 0.410 | 1.637 | 334.5 | 566.3 | 0.966 | 2.309 | 8.67 | 0.564 | 74.0 | 236.5 | 18.7 | 0.254 |
| 4- 520 | 4-1060 | 0.237 | 163.7 | -4.3 | -2.08 | 1.186 | 98.8 | 0.422 | 1.651 | 330.1 | 568.3 | 0.955 | 2.347 | 8.01 | 0.566 | 72.4 | 239.3 | 16.3 | 0.267 |
| 4- 520 | 4-1080 | 0.256 | 170.9 | -1.5 | -1.09 | 1.188 | 100.3 | 0.435 | 1.665 | 325.4 | 570.0 | 0.941 | 2.389 | 7.53 | 0.568 | 70.8 | 242.7 | 14.4 | 0.282 |
| 4- 520 | 4-1100 | 0.281 | 177.3 | 0.2 | -0.20 | 1.190 | 102.0 | 0.450 | 1.679 | 320.5 | 571.4 | 0.924 | 2.435 | 7.19 | 0.570 | 69.1 | 246.5 | 12.9 | 0.298 |
| 4- 520 | 4-1120 | 0.310 | 183.1 | 1.1 | 0.61 | 1.192 | 103.9 | 0.467 | 1.695 | 315.3 | 572.6 | 0.903 | 2.487 | 6.97 | 0.570 | 67.5 | 250.7 | 11.7 | 0.315 |
| 4- 520 | 4-1140 | 0.343 | 188.3 | 1.4 | 1.38 | 1.195 | 105.9 | 0.487 | 1.710 | 310.0 | 573.4 | 0.878 | 2.543 | 6.84 | 0.570 | 65.7 | 255.3 | 10.7 | 0.334 |
| 4- 520 | 4-1160 | 0.381 | 193.0 | 1.3 | 2.12 | 1.197 | 108.1 | 0.509 | 1.726 | 304.4 | 574.1 | 0.848 | 2.604 | 6.80 | 0.570 | 63.8 | 260.1 | 9.9 | 0.353 |
| 4- 520 | 4-1180 | 0.423 | 197.3 | 0.8 | 2.85 | 1.199 | 110.4 | 0.533 | 1.743 | 298.6 | 574.4 | 0.814 | 2.671 | 6.83 | 0.569 | 61.8 | 265.1 | 9.2 | 0.373 |
| 4- 520 | 4-1200 | 0.469 | 201.3 | 0.2 | 3.58 | 1.201 | 113.0 | 0.559 | 1.759 | 292.7 | 574.4 | 0.775 | 2.743 | 6.94 | 0.568 | 59.6 | 270.3 | 8.6 | 0.395 |
| 4- 520 | 4-1220 | 0.520 | 205.0 | -0.7 | 4.33 | 1.204 | 115.8 | 0.589 | 1.776 | 286.6 | 574.2 | 0.731 | 2.822 | 7.14 | 0.567 | 57.2 | 275.7 | 8.1 | 0.418 |
| 4- 530 | 4- 650 | 0.618 | 160.3 | 21.8 | 4.88 | 1.592 | 98.6 | 1.505 | -1.928 | 345.7 | 449.5 | 0.973 | --- | -6.51 | 1.162 | 146.1 | 252.9 | -4.1 | 1.022 |
| 4- 530 | 4- 670 | 0.484 | 159.5 | 26.7 | 5.51 | 1.463 | 96.5 | 1.119 | -8.210 | 347.6 | 456.7 | 0.979 | --- | -6.69 | 0.979 | 142.0 | 254.8 | -4.8 | 0.832 |
| 4- 530 | 4- 690 | 0.395 | 157.7 | 33.0 | 6.19 | 1.375 | 94.6 | 0.874 | 7.844 | 350.2 | 464.6 | 0.985 | --- | -6.94 | 0.847 | 137.4 | 256.6 | -5.8 | 0.688 |
| 4- 530 | 4- 710 | 0.338 | 155.1 | 40.6 | 6.94 | 1.314 | 92.8 | 0.712 | 3.436 | 353.3 | 473.1 | 0.989 | --- | -7.29 | 0.749 | 132.3 | 258.1 | -7.0 | 0.575 |
| 4- 530 | 4- 730 | 0.305 | 151.9 | 48.7 | 7.80 | 1.271 | 91.3 | 0.602 | 2.493 | 356.6 | 481.9 | 0.991 | --- | -7.75 | 0.677 | 126.9 | 259.3 | -8.6 | 0.485 |
| 4- 530 | 4- 750 | 0.289 | 148.6 | 56.9 | 8.79 | 1.241 | 90.0 | 0.527 | 2.098 | 359.9 | 490.7 | 0.992 | --- | -8.36 | 0.624 | 121.4 | 260.0 | -10.8 | 0.413 |
| 4- 530 | 4- 770 | 0.288 | 146.0 | 64.7 | 10.00 | 1.220 | 89.0 | 0.476 | 1.890 | 3.0 | 139.4 | --- | --- | -9.19 | 0.587 | 115.8 | 260.0 | -13.7 | 0.355 |
| 4- 530 | 4- 790 | 0.300 | 145.7 | 71.9 | 11.51 | 1.205 | 88.3 | 0.440 | 1.768 | 5.5 | 147.7 | --- | --- | -10.34 | 0.582 | 110.5 | 259.1 | -17.7 | 0.311 |
| 4- 530 | 4- 810 | 0.323 | 151.9 | 78.6 | 13.50 | 1.194 | 87.8 | 0.416 | 1.693 | 7.5 | 155.4 | --- | --- | -11.97 | 0.545 | 105.5 | 257.1 | -22.9 | 0.280 |
| 4- 530 | 4- 830 | 0.364 | 184.6 | 84.1 | 16.31 | 1.187 | 87.5 | 0.399 | 1.646 | 8.8 | 162.6 | --- | --- | -14.43 | 0.536 | 100.9 | 253.6 | -29.6 | 0.266 |
| 4- 530 | 4- 850 | 0.433 | 257.3 | 82.2 | 20.66 | 1.182 | 87.3 | 0.389 | 1.616 | 9.5 | 169.1 | --- | --- | -18.43 | 0.532 | 96.8 | 248.7 | -37.5 | 0.274 |
| 4- 530 | 4- 870 | 0.565 | 281.7 | 73.1 | 28.39 | 1.180 | 87.3 | 0.382 | 1.598 | 9.7 | 175.1 | --- | --- | -25.81 | 0.531 | 93.0 | 242.8 | -45.4 | 0.324 |
| 4- 530 | 4- 890 | 0.858 | 292.8 | 58.6 | 45.24 | 1.178 | 87.2 | 0.379 | 1.589 | 10.1 | 180.6 | --- | 2.191 | -42.31 | 0.533 | 89.6 | 237.6 | -49.5 | 0.472 |
| 4- 530 | 4- 930 | 0.841 | 61.3 | -72.5 | -44.41 | 1.178 | 90.0 | 0.375 | 1.587 | 359.9 | 548.4 | 0.992 | 2.183 | 48.04 | 0.540 | 85.0 | 240.6 | 49.1 | 0.529 |
| 4- 530 | 4- 950 | 0.480 | 99.5 | -59.2 | -23.77 | 1.179 | 90.3 | 0.377 | 1.592 | 358.9 | 552.6 | 0.992 | 2.193 | 27.75 | 0.545 | 82.6 | 238.1 | 46.9 | 0.345 |
| 4- 530 | 4- 970 | 0.329 | 113.9 | -46.4 | -14.78 | 1.180 | 90.9 | 0.381 | 1.600 | 356.8 | 556.2 | 0.991 | 2.209 | 19.13 | 0.550 | 80.5 | 235.6 | 40.0 | 0.277 |
| 4- 530 | 4- 990 | 0.256 | 124.8 | -34.8 | -9.90 | 1.181 | 91.8 | 0.385 | 1.610 | 353.5 | 559.4 | 0.990 | 2.229 | 14.62 | 0.555 | 78.6 | 234.5 | 33.0 | 0.252 |
| 4- 530 | 4-1010 | 0.221 | 135.0 | -24.4 | -6.82 | 1.183 | 92.8 | 0.391 | 1.621 | 350.0 | 562.2 | 0.987 | 2.254 | 11.92 | 0.559 | 77.0 | 234.9 | 27.2 | 0.246 |
| 4- 530 | 4-1030 | 0.207 | 145.2 | -15.6 | -4.67 | 1.185 | 93.9 | 0.398 | 1.633 | 346.1 | 564.7 | 0.983 | 2.283 | 10.18 | 0.563 | 75.4 | 236.3 | 22.7 | 0.249 |
| 4- 530 | 4-1050 | 0.206 | 155.0 | -8.7 | -3.05 | 1.187 | 95.2 | 0.406 | 1.647 | 341.9 | 566.9 | 0.977 | 2.318 | 8.96 | 0.566 | 73.9 | 238.6 | 19.3 | 0.257 |
| 4- 530 | 4-1070 | 0.215 | 164.3 | -3.9 | -1.76 | 1.190 | 96.6 | 0.416 | 1.661 | 337.4 | 568.8 | 0.969 | 2.353 | 8.10 | 0.568 | 72.5 | 241.6 | 16.6 | 0.268 |
| 4- 530 | 4-1090 | 0.231 | 172.8 | -0.7 | -0.69 | 1.192 | 98.1 | 0.428 | 1.676 | 332.8 | 570.4 | 0.958 | 2.393 | 7.48 | 0.570 | 71.0 | 245.1 | 14.5 | 0.280 |
| 4- 530 | 4-1110 | 0.252 | 180.3 | 1.0 | 0.23 | 1.194 | 99.8 | 0.442 | 1.691 | 327.7 | 571.8 | 0.945 | 2.438 | 7.03 | 0.571 | 69.6 | 249.0 | 12.9 | 0.294 |
| 4- 530 | 4-1130 | 0.279 | 187.0 | 1.8 | 1.05 | 1.196 | 101.5 | 0.457 | 1.707 | 322.5 | 572.9 | 0.927 | 2.487 | 6.71 | 0.572 | 68.1 | 253.2 | 11.6 | 0.309 |
| 4- 530 | 4-1150 | 0.309 | 192.8 | 1.9 | 1.80 | 1.199 | 103.4 | 0.474 | 1.723 | 317.2 | 573.8 | 0.907 | 2.540 | 6.50 | 0.572 | 66.5 | 257.8 | 10.5 | 0.325 |
| 4- 530 | 4-1170 | 0.344 | 198.0 | 1.5 | 2.50 | 1.201 | 105.5 | 0.493 | 1.740 | 311.7 | 574.4 | 0.882 | 2.597 | 6.37 | 0.571 | 64.8 | 262.5 | 9.6 | 0.342 |
| 4- 530 | 4-1190 | 0.382 | 202.6 | 0.8 | 3.17 | 1.203 | 107.7 | 0.514 | 1.757 | 306.1 | 574.8 | 0.853 | 2.660 | 6.32 | 0.570 | 63.0 | 267.5 | 8.9 | 0.360 |
| 4- 530 | 4-1210 | 0.424 | 206.8 | -0.0 | 3.83 | 1.206 | 110.1 | 0.538 | 1.774 | 300.3 | 575.0 | 0.820 | 2.727 | 6.34 | 0.569 | 61.1 | 272.6 | 8.4 | 0.379 |
| 4- 530 | 4-1230 | 0.470 | 210.6 | -1.0 | 4.50 | 1.208 | 112.6 | 0.564 | 1.791 | 294.4 | 575.0 | 0.782 | 2.800 | 6.43 | 0.568 | 59.0 | 277.9 | 7.9 | 0.399 |
| 4- 540 | 4- 660 | 0.556 | 157.5 | 24.6 | 5.01 | 1.553 | 93.3 | 1.384 | -2.566 | 354.3 | 460.8 | 0.986 | --- | -5.68 | 1.106 | 144.7 | 254.9 | -3.8 | 0.961 |
| 4- 540 | 4- 680 | 0.439 | 154.8 | 30.2 | 5.54 | 1.433 | 91.6 | 1.033 | 30.376 | 356.9 | 458.7 | 0.988 | --- | -5.77 | 0.935 | 140.4 | 256.6 | -4.4 | 0.781 |
| 4- 540 | 4- 700 | 0.365 | 150.6 | 36.9 | 6.10 | 1.353 | 89.9 | 0.811 | 5.231 | 0.2 | 107.3 | --- | --- | -5.91 | 0.810 | 135.6 | 258.2 | -5.2 | 0.645 |
| 4- 540 | 4- 720 | 0.320 | 145.1 | 44.0 | 6.71 | 1.298 | 88.5 | 0.666 | 2.960 | 3.9 | 116.4 | --- | --- | -6.11 | 0.719 | 130.3 | 259.4 | -6.2 | 0.538 |
| 4- 540 | 4- 740 | 0.296 | 138.8 | 50.9 | 7.38 | 1.259 | 87.2 | 0.570 | 2.292 | 7.6 | 125.7 | --- | --- | -6.40 | 0.653 | 124.7 | 260.3 | -7.6 | 0.452 |
| 4- 540 | 4- 760 | 0.286 | 132.2 | 57.0 | 8.14 | 1.232 | 86.2 | 0.505 | 1.987 | 11.2 | 134.9 | --- | --- | -6.79 | 0.605 | 119.1 | 260.6 | -9.4 | 0.383 |
| 4- 540 | 4- 780 | 0.285 | 126.1 | 62.4 | 9.02 | 1.213 | 85.5 | 0.462 | 1.820 | 14.3 | 143.7 | --- | --- | -7.31 | 0.973 | 113.5 | 260.2 | -11.7 | 0.328 |
| 4- 540 | 4- 800 | 0.292 | 121.2 | 67.4 | 10.07 | 1.200 | 85.0 | 0.432 | 1.721 | 16.7 | 151.8 | --- | --- | -8.02 | 0.551 | 108.3 | 258.9 | -14.8 | 0.285 |
| 4- 540 | 4- 820 | 0.305 | 118.0 | 72.3 | 11.39 | 1.191 | 84.7 | 0.413 | 1.660 | 18.3 | 159.3 | --- | --- | -9.01 | 0.538 | 103.3 | 256.4 | -18.8 | 0.254 |
| 4- 540 | 4- 840 | 0.327 | 117.0 | 77.7 | 13.13 | 1.185 | 84.6 | 0.400 | 1.622 | 19.1 | 166.1 | --- | --- | -10.41 | 0.531 | 98.9 | 252.9 | -23.8 | 0.235 |
| 4- 540 | 4- 860 | 0.361 | 121.1 | 83.9 | 15.57 | 1.182 | 84.6 | 0.391 | 1.599 | 19.3 | 172.3 | --- | --- | -12.53 | 0.528 | 94.9 | 248.4 | -29.8 | 0.229 |
| 4- 540 | 4- 880 | 0.418 | 257.4 | 88.2 | 19.33 | 1.180 | 84.8 | 0.386 | 1.586 | 18.8 | 177.8 | --- | --- | -15.98 | 0.529 | 91.4 | 243.6 | -36.7 | 0.243 |
| 4- 540 | 4- 900 | 0.530 | 289.9 | 78.7 | 26.02 | 1.179 | 85.1 | 0.383 | 1.581 | 17.8 | 182.8 | --- | 2.188 | -22.35 | 0.532 | 88.2 | 239.4 | -44.0 | 0.291 |
| 4- 540 | 4- 920 | 0.787 | 298.8 | 64.4 | 40.91 | 1.179 | 85.4 | 0.382 | 1.581 | 16.9 | 187.5 | --- | 2.185 | -36.92 | 0.536 | 85.4 | 238.0 | -49.2 | 0.424 |
| 4- 540 | 4- 960 | 0.808 | 63.1 | -67.7 | -42.30 | 1.181 | 88.3 | 0.380 | 1.593 | 6.3 | 194.0 | --- | 2.198 | 46.92 | 0.547 | 81.7 | 243.4 | 48.8 | 0.525 |
| 4- 540 | 4- 980 | 0.433 | 101.4 | -54.2 | -20.87 | 1.182 | 88.8 | 0.383 | 1.602 | 4.5 | 197.5 | --- | 2.216 | 25.82 | 0.552 | 79.7 | 238.5 | 44.7 | 0.336 |
| 4- 540 | 4-1000 | 0.291 | 117.3 | -40.0 | -12.20 | 1.184 | 89.6 | 0.387 | 1.614 | 1.4 | 200.5 | --- | 2.238 | 17.48 | 0.556 | 78.0 | 236.5 | 36.3 | 0.276 |
| 4- 540 | 4-1020 | 0.228 | 129.7 | -27.2 | -7.65 | 1.186 | 90.6 | 0.392 | 1.626 | 357.8 | 563.2 | 0.989 | 2.264 | 13.25 | 0.561 | 76.4 | 236.6 | 29.0 | 0.258 |
| 4- 540 | 4-1040 | 0.201 | 141.4 | -16.4 | -4.82 | 1.188 | 91.8 | 0.398 | 1.640 | 353.7 | 565.5 | 0.988 | 2.293 | 10.77 | 0.565 | 75.0 | 238.2 | 23.5 | 0.255 |
| 4- 540 | 4-1060 | 0.193 | 152.9 | -8.0 | -2.86 | 1.191 | 93.1 | 0.405 | 1.655 | 349.4 | 567.5 | 0.984 | 2.328 | 9.16 | 0.568 | 73.7 | 240.6 | 19.5 | 0.260 |
| 4- 540 | 4-1080 | 0.197 | 163.7 | -2.2 | -1.40 | 1.193 | 94.4 | 0.414 | 1.670 | 344.8 | 569.3 | 0.979 | 2.362 | 8.06 | 0.570 | 72.4 | 243.8 | 16.5 | 0.269 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THBT1 THBT2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 540 | 4-1100 | 0.210 | 173.7 | 1.2 | -0.24 | 1.195 | 95.9 | 0.424 | 1.686 | 340.0 | 570.9 | 0.971 | 2.401 | 7.28 | 0.572 | 71.1 | 247.4 | 14.2 | 0.280 |
| 4- 540 | 4-1120 | 0.228 | 182.5 | 3.0 | 0.71 | 1.198 | 97.5 | 0.435 | 1.702 | 335.0 | 572.2 | 0.961 | 2.444 | 6.72 | 0.573 | 69.8 | 251.4 | 12.4 | 0.292 |
| 4- 540 | 4-1140 | 0.252 | 190.1 | 3.5 | 1.53 | 1.200 | 99.2 | 0.449 | 1.719 | 329.8 | 573.2 | 0.948 | 2.490 | 6.31 | 0.573 | 68.5 | 255.7 | 11.1 | 0.305 |
| 4- 540 | 4-1160 | 0.279 | 196.7 | 3.3 | 2.26 | 1.202 | 101.1 | 0.464 | 1.736 | 324.5 | 574.1 | 0.931 | 2.541 | 6.02 | 0.573 | 67.1 | 260.2 | 10.0 | 0.319 |
| 4- 540 | 4-1180 | 0.310 | 202.5 | 2.5 | 2.92 | 1.205 | 103.0 | 0.480 | 1.753 | 319.1 | 574.8 | 0.911 | 2.595 | 5.83 | 0.572 | 65.6 | 265.0 | 9.1 | 0.334 |
| 4- 540 | 4-1200 | 0.345 | 207.5 | 1.5 | 3.54 | 1.207 | 105.1 | 0.499 | 1.770 | 313.5 | 575.2 | 0.887 | 2.654 | 5.71 | 0.571 | 64.1 | 269.9 | 8.4 | 0.349 |
| 4- 540 | 4-1220 | 0.383 | 212.0 | 0.4 | 4.13 | 1.209 | 107.3 | 0.520 | 1.788 | 307.8 | 575.5 | 0.858 | 2.717 | 5.65 | 0.570 | 62.4 | 275.0 | 7.8 | 0.365 |
| 4- 540 | 4-1240 | 0.425 | 216.1 | -0.9 | 4.71 | 1.212 | 109.6 | 0.542 | 1.805 | 302.1 | 575.5 | 0.826 | 2.784 | 5.66 | 0.568 | 60.6 | 280.1 | 7.3 | 0.382 |
| 4- 550 | 4- 670 | 0.515 | 151.7 | 28.1 | 5.20 | 1.511 | 87.7 | 1.255 | -3.869 | 4.1 | 93.2 | --- | --- | -4.80 | 1.047 | 143.4 | 256.5 | -3.3 | 0.899 |
| 4- 550 | 4- 690 | 0.417 | 146.6 | 34.0 | 5.65 | 1.403 | 86.4 | 0.943 | 17.171 | 7.5 | 101.9 | --- | --- | -4.81 | 0.887 | 138.9 | 257.9 | -3.8 | 0.730 |
| 4- 550 | 4- 710 | 0.358 | 139.9 | 40.0 | 6.11 | 1.330 | 85.1 | 0.748 | 3.887 | 11.5 | 111.3 | --- | --- | -4.87 | 0.771 | 133.7 | 259.1 | -4.5 | 0.601 |
| 4- 550 | 4- 730 | 0.326 | 132.3 | 45.6 | 6.60 | 1.280 | 83.9 | 0.624 | 2.585 | 15.8 | 121.1 | --- | --- | -4.97 | 0.687 | 128.2 | 260.1 | -5.4 | 0.500 |
| 4- 550 | 4- 750 | 0.310 | 124.7 | 50.2 | 7.11 | 1.246 | 83.0 | 0.543 | 2.113 | 19.9 | 130.8 | --- | --- | -5.13 | 0.627 | 122.5 | 260.5 | -6.5 | 0.419 |
| 4- 550 | 4- 770 | 0.303 | 117.9 | 53.9 | 7.68 | 1.222 | 82.3 | 0.489 | 1.880 | 23.6 | 140.1 | --- | --- | -5.36 | 0.585 | 116.7 | 260.3 | -7.9 | 0.355 |
| 4- 550 | 4- 790 | 0.302 | 112.5 | 57.2 | 8.33 | 1.206 | 81.8 | 0.454 | 1.750 | 26.4 | 148.7 | --- | --- | -5.68 | 0.556 | 111.1 | 259.3 | -9.7 | 0.304 |
| 4- 550 | 4- 810 | 0.306 | 108.6 | 60.3 | 9.07 | 1.195 | 81.5 | 0.431 | 1.672 | 28.4 | 156.6 | --- | --- | -6.10 | 0.538 | 105.8 | 257.3 | -12.1 | 0.264 |
| 4- 550 | 4- 830 | 0.312 | 106.2 | 63.6 | 9.95 | 1.188 | 81.4 | 0.415 | 1.624 | 29.5 | 163.7 | --- | --- | -6.69 | 0.528 | 101.0 | 254.4 | -15.0 | 0.234 |
| 4- 550 | 4- 850 | 0.321 | 105.2 | 67.4 | 11.06 | 1.183 | 81.5 | 0.405 | 1.596 | 29.8 | 170.0 | --- | --- | -7.50 | 0.524 | 96.7 | 250.4 | -18.5 | 0.215 |
| 4- 550 | 4- 870 | 0.336 | 105.4 | 72.0 | 12.51 | 1.180 | 81.8 | 0.398 | 1.580 | 29.4 | 175.7 | --- | --- | -8.66 | 0.524 | 92.9 | 245.9 | -22.6 | 0.205 |
| 4- 550 | 4- 890 | 0.360 | 107.0 | 77.6 | 14.54 | 1.179 | 82.1 | 0.393 | 1.572 | 28.3 | 180.7 | --- | 2.191 | -10.41 | 0.526 | 89.5 | 241.4 | -27.3 | 0.207 |
| 4- 550 | 4- 910 | 0.403 | 110.1 | 84.8 | 17.67 | 1.179 | 82.6 | 0.391 | 1.571 | 26.7 | 185.3 | --- | 2.185 | -13.27 | 0.530 | 86.6 | 237.7 | -33.0 | 0.223 |
| 4- 550 | 4- 930 | 0.490 | 294.3 | 85.6 | 23.24 | 1.179 | 83.2 | 0.389 | 1.575 | 24.6 | 189.4 | --- | 2.188 | -18.57 | 0.536 | 84.1 | 235.7 | -39.9 | 0.264 |
| 4- 550 | 4- 950 | 0.706 | 302.8 | 71.5 | 35.94 | 1.181 | 83.7 | 0.389 | 1.582 | 22.6 | 193.2 | --- | 2.198 | -31.00 | 0.541 | 81.8 | 237.6 | -47.2 | 0.376 |
| 4- 550 | 4- 990 | 0.749 | 69.9 | -63.0 | -38.72 | 1.184 | 86.7 | 0.388 | 1.603 | 11.9 | 198.8 | --- | 2.226 | 44.21 | 0.553 | 78.8 | 246.3 | 48.2 | 0.507 |
| 4- 550 | 4-1010 | 0.375 | 107.2 | -47.2 | -17.12 | 1.186 | 87.4 | 0.392 | 1.617 | 9.3 | 201.7 | --- | 2.250 | 22.89 | 0.558 | 77.2 | 239.7 | 40.9 | 0.323 |
| 4- 550 | 4-1030 | 0.252 | 123.9 | -30.7 | -9.16 | 1.189 | 88.4 | 0.396 | 1.631 | 5.6 | 204.1 | --- | 2.276 | 15.21 | 0.562 | 75.8 | 238.6 | 31.3 | 0.275 |
| 4- 550 | 4-1050 | 0.204 | 137.4 | -16.6 | -5.12 | 1.191 | 89.6 | 0.400 | 1.646 | 1.4 | 206.3 | --- | 2.308 | 11.45 | 0.566 | 74.5 | 240.0 | 24.2 | 0.264 |
| 4- 550 | 4-1070 | 0.188 | 150.1 | -6.1 | -2.65 | 1.194 | 90.9 | 0.406 | 1.662 | 356.9 | 568.2 | 0.987 | 2.338 | 9.26 | 0.569 | 73.3 | 242.6 | 19.4 | 0.265 |
| 4- 550 | 4-1090 | 0.187 | 162.3 | 0.9 | -0.96 | 1.196 | 92.3 | 0.414 | 1.679 | 352.2 | 569.9 | 0.985 | 2.373 | 7.87 | 0.571 | 72.2 | 245.9 | 15.9 | 0.271 |
| 4- 550 | 4-1110 | 0.195 | 173.5 | 4.8 | 0.30 | 1.198 | 93.7 | 0.422 | 1.696 | 347.3 | 571.3 | 0.980 | 2.411 | 6.92 | 0.573 | 71.1 | 249.6 | 13.5 | 0.280 |
| 4- 550 | 4-1130 | 0.210 | 183.6 | 6.4 | 1.28 | 1.201 | 95.3 | 0.432 | 1.713 | 342.3 | 572.5 | 0.973 | 2.453 | 6.24 | 0.574 | 69.9 | 253.7 | 11.6 | 0.291 |
| 4- 550 | 4-1150 | 0.230 | 192.4 | 6.6 | 2.10 | 1.203 | 97.0 | 0.443 | 1.730 | 337.1 | 573.6 | 0.963 | 2.497 | 5.76 | 0.574 | 68.8 | 258.1 | 10.2 | 0.302 |
| 4- 550 | 4-1170 | 0.254 | 199.9 | 5.9 | 2.79 | 1.206 | 98.7 | 0.456 | 1.748 | 331.8 | 574.4 | 0.951 | 2.545 | 5.40 | 0.574 | 67.5 | 262.6 | 9.1 | 0.314 |
| 4- 550 | 4-1190 | 0.282 | 206.3 | 4.7 | 3.41 | 1.208 | 100.6 | 0.471 | 1.766 | 326.4 | 575.1 | 0.934 | 2.597 | 5.15 | 0.573 | 66.2 | 267.4 | 8.3 | 0.327 |
| 4- 550 | 4-1210 | 0.313 | 211.9 | 3.2 | 3.96 | 1.211 | 102.6 | 0.487 | 1.783 | 320.9 | 575.6 | 0.915 | 2.652 | 4.97 | 0.572 | 64.9 | 272.3 | 7.6 | 0.340 |
| 4- 550 | 4-1230 | 0.347 | 216.8 | 1.6 | 4.48 | 1.213 | 104.6 | 0.505 | 1.801 | 315.4 | 575.9 | 0.892 | 2.711 | 4.86 | 0.570 | 63.4 | 277.3 | 7.0 | 0.354 |
| 4- 550 | 4-1250 | 0.384 | 221.2 | 0.0 | 4.97 | 1.215 | 106.8 | 0.525 | 1.819 | 309.7 | 576.0 | 0.865 | 2.774 | 4.81 | 0.569 | 61.8 | 282.4 | 6.5 | 0.368 |
| 4- 560 | 4- 660 | 0.641 | 148.8 | 26.4 | 5.12 | 1.621 | 82.6 | 1.581 | -1.674 | 12.0 | 88.3 | --- | --- | -3.90 | 1.196 | 146.5 | 256.2 | -2.4 | 1.055 |
| 4- 560 | 4- 680 | 0.503 | 143.4 | 31.4 | 5.48 | 1.469 | 81.8 | 1.123 | -7.860 | 15.4 | 97.0 | --- | --- | -3.83 | 0.984 | 142.3 | 257.4 | -2.8 | 0.837 |
| 4- 560 | 4- 700 | 0.424 | 136.3 | 36.5 | 5.84 | 1.371 | 80.9 | 0.856 | 6.639 | 19.7 | 106.7 | --- | --- | -3.80 | 0.835 | 137.4 | 258.5 | -3.2 | 0.679 |
| 4- 560 | 4- 720 | 0.380 | 128.5 | 40.9 | 6.20 | 1.306 | 80.0 | 0.692 | 3.080 | 24.5 | 116.9 | --- | --- | -3.80 | 0.728 | 131.9 | 259.4 | -3.7 | 0.558 |
| 4- 560 | 4- 740 | 0.356 | 121.0 | 44.4 | 6.58 | 1.262 | 79.2 | 0.589 | 2.286 | 29.2 | 127.2 | --- | --- | -3.83 | 0.652 | 126.1 | 259.8 | -4.4 | 0.463 |
| 4- 560 | 4- 760 | 0.344 | 114.7 | 47.1 | 6.96 | 1.232 | 78.6 | 0.524 | 1.954 | 33.4 | 137.1 | --- | --- | -3.90 | 0.598 | 120.1 | 259.7 | -5.2 | 0.388 |
| 4- 560 | 4- 780 | 0.339 | 109.8 | 49.2 | 7.38 | 1.212 | 78.2 | 0.482 | 1.781 | 36.8 | 146.2 | --- | --- | -4.02 | 0.562 | 114.1 | 258.9 | -6.3 | 0.329 |
| 4- 560 | 4- 800 | 0.336 | 106.4 | 51.1 | 7.83 | 1.198 | 78.0 | 0.455 | 1.682 | 39.2 | 154.4 | --- | --- | -4.19 | 0.538 | 108.5 | 257.1 | -7.6 | 0.282 |
| 4- 560 | 4- 820 | 0.336 | 104.4 | 53.1 | 8.34 | 1.189 | 78.0 | 0.437 | 1.623 | 40.6 | 161.7 | --- | --- | -4.43 | 0.525 | 103.2 | 254.5 | -9.2 | 0.246 |
| 4- 560 | 4- 840 | 0.336 | 103.6 | 55.3 | 8.92 | 1.183 | 78.1 | 0.425 | 1.587 | 41.0 | 168.2 | --- | --- | -4.76 | 0.518 | 98.5 | 250.9 | -11.2 | 0.220 |
| 4- 560 | 4- 860 | 0.337 | 103.8 | 58.0 | 9.62 | 1.180 | 78.4 | 0.416 | 1.568 | 40.7 | 173.9 | --- | --- | -5.21 | 0.516 | 94.3 | 246.6 | -13.3 | 0.203 |
| 4- 560 | 4- 880 | 0.340 | 105.0 | 61.2 | 10.49 | 1.178 | 78.8 | 0.410 | 1.558 | 39.6 | 179.1 | --- | --- | -5.84 | 0.518 | 90.7 | 242.2 | -15.8 | 0.194 |
| 4- 560 | 4- 900 | 0.347 | 107.2 | 65.1 | 11.62 | 1.178 | 79.3 | 0.405 | 1.557 | 38.0 | 183.6 | --- | 2.188 | -6.74 | 0.523 | 87.5 | 238.1 | -18.6 | 0.193 |
| 4- 560 | 4- 920 | 0.360 | 110.8 | 70.2 | 13.20 | 1.178 | 79.9 | 0.402 | 1.560 | 35.8 | 187.8 | --- | 2.187 | -8.10 | 0.528 | 84.8 | 234.9 | -21.9 | 0.199 |
| 4- 560 | 4- 940 | 0.387 | 116.6 | 76.8 | 15.64 | 1.180 | 80.7 | 0.400 | 1.567 | 33.2 | 191.5 | --- | 2.194 | -10.32 | 0.534 | 82.5 | 233.1 | -26.3 | 0.214 |
| 4- 560 | 4- 960 | 0.447 | 133.1 | 85.7 | 20.00 | 1.181 | 81.5 | 0.399 | 1.577 | 30.2 | 194.9 | --- | 2.207 | -14.45 | 0.541 | 80.5 | 233.1 | -32.9 | 0.245 |
| 4- 560 | 4- 980 | 0.612 | 300.0 | 80.3 | 30.14 | 1.183 | 82.3 | 0.399 | 1.589 | 27.2 | 198.0 | --- | 2.224 | -24.37 | 0.547 | 78.8 | 236.8 | -42.4 | 0.328 |
| 4- 560 | 4-1020 | 0.660 | 80.6 | -58.0 | -33.32 | 1.188 | 85.2 | 0.398 | 1.618 | 16.8 | 202.8 | --- | 2.263 | 39.51 | 0.558 | 76.3 | 248.6 | 46.9 | 0.472 |
| 4- 560 | 4-1040 | 0.309 | 116.7 | -37.0 | -12.56 | 1.191 | 86.2 | 0.402 | 1.634 | 13.4 | 205.1 | --- | 2.291 | 18.97 | 0.563 | 75.0 | 241.5 | 35.2 | 0.307 |
| 4- 560 | 4-1060 | 0.218 | 133.6 | -17.2 | -5.73 | 1.193 | 87.4 | 0.405 | 1.651 | 9.1 | 207.1 | --- | 2.320 | 12.36 | 0.566 | 73.9 | 242.0 | 25.1 | 0.274 |
| 4- 560 | 4-1080 | 0.190 | 147.5 | -3.0 | -2.38 | 1.196 | 88.7 | 0.410 | 1.669 | 4.5 | 208.9 | --- | 2.352 | 9.24 | 0.569 | 72.8 | 244.5 | 18.9 | 0.270 |
| 4- 560 | 4-1100 | 0.184 | 160.6 | 5.6 | -0.37 | 1.199 | 90.1 | 0.416 | 1.686 | 359.7 | 570.4 | 0.986 | 2.387 | 7.45 | 0.572 | 71.8 | 247.9 | 14.9 | 0.274 |
| 4- 560 | 4-1120 | 0.189 | 172.8 | 10.0 | 0.99 | 1.201 | 91.6 | 0.422 | 1.704 | 354.8 | 571.8 | 0.984 | 2.424 | 6.31 | 0.573 | 70.9 | 251.8 | 12.2 | 0.281 |
| 4- 560 | 4-1140 | 0.200 | 184.0 | 11.5 | 2.00 | 1.204 | 93.1 | 0.431 | 1.723 | 349.7 | 572.9 | 0.981 | 2.464 | 5.54 | 0.574 | 69.9 | 256.0 | 10.3 | 0.290 |
| 4- 560 | 4-1160 | 0.215 | 193.7 | 11.2 | 2.79 | 1.206 | 94.7 | 0.440 | 1.741 | 344.5 | 573.9 | 0.975 | 2.507 | 5.00 | 0.574 | 68.8 | 260.4 | 8.9 | 0.300 |
| 4- 560 | 4-1180 | 0.235 | 202.2 | 9.9 | 3.44 | 1.209 | 96.4 | 0.451 | 1.759 | 339.2 | 574.7 | 0.966 | 2.553 | 4.60 | 0.574 | 67.8 | 265.0 | 7.9 | 0.310 |
| 4- 560 | 4-1200 | 0.259 | 209.4 | 8.1 | 3.99 | 1.211 | 98.2 | 0.464 | 1.778 | 333.8 | 575.4 | 0.953 | 2.602 | 4.32 | 0.573 | 66.7 | 269.8 | 7.1 | 0.321 |
| 4- 560 | 4-1220 | 0.286 | 215.6 | 6.0 | 4.47 | 1.214 | 100.1 | 0.478 | 1.796 | 328.4 | 575.9 | 0.938 | 2.654 | 4.11 | 0.572 | 65.5 | 274.6 | 6.4 | 0.333 |
| 4- 560 | 4-1240 | 0.315 | 221.0 | 3.9 | 4.91 | 1.216 | 102.1 | 0.493 | 1.814 | 322.9 | 576.2 | 0.920 | 2.709 | 3.98 | 0.571 | 64.2 | 279.6 | 5.9 | 0.345 |
| 4- 560 | 4-1260 | 0.348 | 225.8 | 1.8 | 5.31 | 1.218 | 104.1 | 0.510 | 1.833 | 317.4 | 576.4 | 0.898 | 2.768 | 3.86 | 0.569 | 62.8 | 284.6 | 5.5 | 0.357 |
| 4- 570 | 4- 670 | 0.641 | 141.3 | 29.2 | 5.58 | 1.562 | 76.1 | 1.381 | -2.453 | 24.0 | 92.8 | --- | --- | -2.86 | 1.116 | 146.0 | 256.7 | -1.8 | 0.982 |
| 4- 570 | 4- 690 | 0.525 | 134.4 | 33.4 | 5.86 | 1.425 | 75.7 | 0.999 | 95.335 | 28.6 | 102.7 | --- | --- | -2.78 | 0.918 | 141.3 | 257.6 | -2.0 | 0.778 |
| 4- 570 | 4- 710 | 0.461 | 126.9 | 37.1 | 6.12 | 1.338 | 75.2 | 0.779 | 4.126 | 33.9 | 113.4 | --- | --- | -2.71 | 0.780 | 136.0 | 258.4 | -2.3 | 0.630 |
| 4- 570 | 4- 730 | 0.426 | 120.0 | 39.8 | 6.39 | 1.281 | 74.7 | 0.648 | 2.549 | 39.2 | 124.3 | --- | --- | -2.68 | 0.683 | 130.1 | 258.7 | -2.7 | 0.517 |
| 4- 570 | 4- 750 | 0.406 | 114.3 | 41.8 | 6.65 | 1.242 | 74.3 | 0.568 | 2.047 | 44.0 | 134.7 | --- | --- | -2.67 | 0.615 | 123.9 | 258.6 | -3.2 | 0.429 |
| 4- 570 | 4- 770 | 0.395 | 110.0 | 43.3 | 6.92 | 1.217 | 74.1 | 0.518 | 1.814 | 47.8 | 144.2 | --- | --- | -2.69 | 0.568 | 117.6 | 257.8 | -3.8 | 0.360 |
| 4- 570 | 4- 790 | 0.388 | 107.1 | 44.5 | 7.19 | 1.200 | 74.0 | 0.486 | 1.688 | 50.6 | 152.7 | --- | --- | -2.73 | 0.537 | 111.4 | 256.2 | -4.5 | 0.306 |
| 4- 570 | 4- 810 | 0.383 | 105.5 | 45.7 | 7.49 | 1.189 | 74.0 | 0.466 | 1.616 | 52.1 | 160.2 | --- | --- | -2.81 | 0.519 | 105.7 | 253.7 | -5.3 | 0.265 |
| 4- 570 | 4- 830 | 0.378 | 104.8 | 47.0 | 7.81 | 1.182 | 74.2 | 0.451 | 1.573 | 52.7 | 166.8 | --- | --- | -2.92 | 0.509 | 100.4 | 250.3 | -6.3 | 0.234 |
| 4- 570 | 4- 850 | 0.373 | 105.0 | 48.5 | 8.17 | 1.178 | 74.6 | 0.441 | 1.550 | 52.4 | 172.6 | --- | --- | -3.09 | 0.506 | 95.8 | 246.2 | -7.4 | 0.212 |
| 4- 570 | 4- 870 | 0.368 | 105.9 | 50.2 | 8.58 | 1.176 | 75.1 | 0.433 | 1.539 | 51.4 | 177.7 | --- | --- | -3.31 | 0.508 | 91.7 | 241.9 | -8.5 | 0.198 |
| 4- 570 | 4- 890 | 0.363 | 107.7 | 52.3 | 9.07 | 1.175 | 75.7 | 0.427 | 1.536 | 49.7 | 182.3 | --- | 2.192 | -3.63 | 0.512 | 88.3 | 237.8 | -9.7 | 0.192 |
| 4- 570 | 4- 910 | 0.359 | 110.1 | 54.8 | 9.68 | 1.176 | 76.4 | 0.422 | 1.539 | 47.5 | 186.4 | --- | 2.189 | -4.06 | 0.518 | 85.4 | 234.5 | -11.0 | 0.191 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 570 | 4- 930 | 0.357 | 113.5 | 57.9 | 10.47 | 1.177 | 77.2 | 0.418 | 1.547 | 44.9 | 190.1 | --- | 2.194 | -4.68 | 0.525 | 82.9 | 232.1 | -12.6 | 0.196 |
| 4- 570 | 4- 950 | 0.359 | 118.0 | 61.9 | 11.57 | 1.179 | 78.1 | 0.415 | 1.557 | 41.8 | 193.5 | --- | 2.204 | -5.63 | 0.532 | 80.8 | 231.0 | -14.7 | 0.203 |
| 4- 570 | 4- 970 | 0.370 | 124.3 | 67.3 | 13.27 | 1.181 | 79.0 | 0.413 | 1.570 | 38.5 | 196.5 | --- | 2.219 | -7.16 | 0.539 | 79.0 | 231.1 | -17.8 | 0.216 |
| 4- 570 | 4- 990 | 0.402 | 134.9 | 75.0 | 16.29 | 1.184 | 80.0 | 0.411 | 1.585 | 34.8 | 199.3 | --- | 2.237 | -10.04 | 0.546 | 77.5 | 232.6 | -23.1 | 0.236 |
| 4- 570 | 4-1010 | 0.507 | 190.4 | 86.1 | 23.43 | 1.186 | 81.1 | 0.411 | 1.601 | 31.0 | 201.8 | --- | 2.259 | -17.02 | 0.552 | 76.1 | 236.4 | -33.3 | 0.286 |
| 4- 570 | 4-1030 | 1.062 | 324.0 | 63.3 | 56.50 | 1.189 | 82.0 | 0.412 | 1.619 | 27.7 | 204.2 | --- | 2.286 | -49.94 | 0.558 | 74.8 | 253.9 | -46.2 | 0.571 |
| 4- 570 | 4-1050 | 0.529 | 96.3 | -51.3 | -25.45 | 1.192 | 84.0 | 0.410 | 1.636 | 20.9 | 206.0 | --- | 2.308 | 32.16 | 0.583 | 74.1 | 249.6 | 43.6 | 0.417 |
| 4- 570 | 4-1070 | 0.247 | 130.0 | -20.3 | -7.20 | 1.195 | 85.1 | 0.413 | 1.655 | 16.8 | 207.8 | --- | 2.338 | 14.07 | 0.566 | 73.1 | 244.3 | 27.0 | 0.291 |
| 4- 570 | 4-1090 | 0.200 | 146.3 | 1.0 | -1.96 | 1.198 | 86.4 | 0.416 | 1.674 | 12.1 | 209.5 | --- | 2.370 | 8.98 | 0.569 | 72.2 | 246.5 | 17.9 | 0.275 |
| 4- 570 | 4-1110 | 0.191 | 159.8 | 12.0 | 0.51 | 1.201 | 87.9 | 0.420 | 1.693 | 7.2 | 210.9 | --- | 2.404 | 6.66 | 0.572 | 71.4 | 249.9 | 13.1 | 0.277 |
| 4- 570 | 4-1130 | 0.192 | 172.4 | 16.9 | 1.98 | 1.203 | 89.3 | 0.425 | 1.712 | 2.2 | 212.2 | --- | 2.440 | 5.35 | 0.573 | 70.5 | 253.9 | 10.3 | 0.283 |
| 4- 570 | 4-1150 | 0.199 | 184.0 | 18.2 | 2.96 | 1.206 | 90.9 | 0.432 | 1.731 | 357.1 | 573.3 | 0.984 | 2.479 | 4.52 | 0.574 | 69.7 | 258.2 | 8.4 | 0.291 |
| 4- 570 | 4-1170 | 0.210 | 194.4 | 17.5 | 3.68 | 1.209 | 92.5 | 0.439 | 1.751 | 351.8 | 574.2 | 0.981 | 2.520 | 3.97 | 0.574 | 68.8 | 262.7 | 7.1 | 0.299 |
| 4- 570 | 4-1190 | 0.224 | 203.6 | 15.5 | 4.24 | 1.211 | 94.2 | 0.449 | 1.770 | 346.6 | 575.0 | 0.976 | 2.564 | 3.57 | 0.574 | 67.9 | 267.4 | 6.2 | 0.308 |
| 4- 570 | 4-1210 | 0.243 | 211.6 | 12.9 | 4.70 | 1.214 | 95.9 | 0.459 | 1.789 | 341.2 | 575.6 | 0.968 | 2.610 | 3.28 | 0.573 | 66.9 | 272.1 | 5.5 | 0.318 |
| 4- 570 | 4-1230 | 0.265 | 218.5 | 10.1 | 5.09 | 1.216 | 97.7 | 0.471 | 1.808 | 335.8 | 576.1 | 0.957 | 2.660 | 3.07 | 0.572 | 65.9 | 277.0 | 4.9 | 0.327 |
| 4- 570 | 4-1250 | 0.290 | 224.4 | 7.3 | 5.43 | 1.219 | 99.5 | 0.484 | 1.827 | 330.4 | 576.5 | 0.942 | 2.712 | 2.92 | 0.571 | 64.7 | 281.9 | 4.5 | 0.337 |
| 4- 570 | 4-1270 | 0.318 | 229.7 | 4.6 | 5.74 | 1.221 | 101.5 | 0.499 | 1.846 | 325.0 | 576.8 | 0.925 | 2.767 | 2.81 | 0.569 | 63.5 | 286.9 | 4.1 | 0.348 |
| 4- 580 | 4- 700 | 0.577 | 127.1 | 33.9 | 6.35 | 1.381 | 69.4 | 0.893 | 7.986 | 43.9 | 110.6 | --- | --- | -1.59 | 0.850 | 140.7 | 257.0 | -1.2 | 0.724 |
| 4- 580 | 4- 720 | 0.522 | 120.8 | 36.2 | 6.51 | 1.304 | 69.3 | 0.722 | 3.013 | 49.9 | 122.1 | --- | --- | -1.54 | 0.723 | 134.8 | 257.2 | -1.3 | 0.585 |
| 4- 580 | 4- 740 | 0.490 | 115.6 | 37.7 | 6.66 | 1.255 | 69.3 | 0.623 | 2.178 | 55.3 | 133.0 | --- | --- | -1.50 | 0.635 | 128.4 | 257.0 | -1.5 | 0.481 |
| 4- 580 | 4- 760 | 0.471 | 111.9 | 38.8 | 6.81 | 1.222 | 69.3 | 0.564 | 1.853 | 59.6 | 143.0 | --- | --- | -1.47 | 0.575 | 121.7 | 256.2 | -1.8 | 0.400 |
| 4- 580 | 4- 780 | 0.458 | 109.4 | 39.7 | 6.96 | 1.201 | 69.4 | 0.527 | 1.692 | 62.5 | 151.7 | --- | --- | -1.46 | 0.535 | 115.0 | 254.6 | -2.1 | 0.337 |
| 4- 580 | 4- 800 | 0.447 | 108.0 | 40.5 | 7.11 | 1.187 | 69.6 | 0.503 | 1.603 | 64.3 | 159.3 | --- | --- | -1.47 | 0.511 | 108.5 | 252.2 | -2.5 | 0.289 |
| 4- 580 | 4- 820 | 0.438 | 107.5 | 41.3 | 7.26 | 1.179 | 70.0 | 0.486 | 1.553 | 64.9 | 165.9 | --- | --- | -1.49 | 0.498 | 102.6 | 248.9 | -2.9 | 0.254 |
| 4- 580 | 4- 840 | 0.429 | 107.7 | 42.1 | 7.43 | 1.174 | 70.4 | 0.474 | 1.526 | 64.6 | 171.6 | --- | --- | -1.53 | 0.493 | 97.4 | 245.1 | -3.3 | 0.228 |
| 4- 580 | 4- 860 | 0.419 | 108.5 | 43.0 | 7.61 | 1.172 | 71.0 | 0.464 | 1.513 | 63.5 | 176.7 | --- | --- | -1.59 | 0.493 | 92.9 | 240.9 | -3.7 | 0.211 |
| 4- 580 | 4- 880 | 0.409 | 109.9 | 44.0 | 7.80 | 1.171 | 71.7 | 0.456 | 1.509 | 61.8 | 181.2 | --- | 2.197 | -1.68 | 0.498 | 89.0 | 236.9 | -4.1 | 0.202 |
| 4- 580 | 4- 900 | 0.399 | 111.8 | 45.2 | 8.03 | 1.172 | 72.5 | 0.449 | 1.512 | 59.6 | 185.2 | --- | 2.192 | -1.80 | 0.504 | 85.8 | 233.6 | -4.6 | 0.199 |
| 4- 580 | 4- 920 | 0.388 | 114.3 | 46.7 | 8.30 | 1.173 | 73.3 | 0.443 | 1.521 | 56.9 | 188.9 | --- | 2.195 | -1.97 | 0.512 | 83.0 | 231.2 | -5.0 | 0.200 |
| 4- 580 | 4- 940 | 0.377 | 117.3 | 48.3 | 8.63 | 1.175 | 74.3 | 0.438 | 1.532 | 53.8 | 192.2 | --- | 2.204 | -2.20 | 0.521 | 80.8 | 229.9 | -5.6 | 0.204 |
| 4- 580 | 4- 960 | 0.367 | 121.1 | 50.3 | 9.06 | 1.178 | 75.3 | 0.434 | 1.546 | 50.4 | 195.3 | --- | 2.217 | -2.54 | 0.529 | 78.9 | 229.6 | -6.3 | 0.210 |
| 4- 580 | 4- 980 | 0.359 | 125.6 | 52.9 | 9.65 | 1.180 | 76.4 | 0.430 | 1.562 | 46.7 | 198.0 | --- | 2.234 | -3.05 | 0.537 | 77.3 | 230.3 | -7.3 | 0.218 |
| 4- 580 | 4-1000 | 0.355 | 131.4 | 56.3 | 10.57 | 1.183 | 77.6 | 0.427 | 1.580 | 42.7 | 200.6 | --- | 2.254 | -3.87 | 0.544 | 76.0 | 231.9 | -9.0 | 0.228 |
| 4- 580 | 4-1020 | 0.360 | 139.4 | 61.5 | 12.19 | 1.187 | 78.8 | 0.425 | 1.598 | 38.6 | 202.9 | --- | 2.277 | -5.41 | 0.551 | 74.8 | 234.3 | -12.1 | 0.239 |
| 4- 580 | 4-1040 | 0.400 | 153.5 | 70.7 | 16.02 | 1.190 | 80.0 | 0.423 | 1.618 | 34.2 | 205.0 | --- | 2.302 | -9.15 | 0.557 | 73.8 | 237.8 | -19.1 | 0.260 |
| 4- 580 | 4-1060 | 0.722 | 298.3 | 80.5 | 36.10 | 1.193 | 81.2 | 0.423 | 1.637 | 29.9 | 206.9 | --- | 2.330 | -29.15 | 0.562 | 72.9 | 249.3 | -41.0 | 0.399 |
| 4- 580 | 4-1080 | 0.350 | 119.8 | -35.4 | -13.86 | 1.196 | 82.8 | 0.422 | 1.657 | 24.4 | 208.5 | --- | 2.357 | 20.89 | 0.566 | 72.2 | 249.0 | 34.3 | 0.341 |
| 4- 580 | 4-1100 | 0.217 | 147.3 | 7.0 | -1.05 | 1.199 | 84.2 | 0.424 | 1.678 | 19.7 | 210.0 | --- | 2.389 | 8.17 | 0.569 | 71.5 | 248.3 | 15.9 | 0.280 |
| 4- 580 | 4-1120 | 0.209 | 161.3 | 21.0 | 2.09 | 1.202 | 85.6 | 0.427 | 1.698 | 14.7 | 211.4 | --- | 2.423 | 5.11 | 0.571 | 70.7 | 251.9 | 9.9 | 0.280 |
| 4- 580 | 4-1140 | 0.209 | 173.3 | 25.6 | 3.52 | 1.205 | 87.1 | 0.430 | 1.719 | 9.6 | 212.5 | --- | 2.458 | 3.75 | 0.573 | 70.0 | 256.1 | 7.1 | 0.285 |
| 4- 580 | 4-1160 | 0.211 | 184.6 | 26.3 | 4.36 | 1.208 | 88.7 | 0.435 | 1.739 | 4.5 | 213.6 | --- | 2.496 | 3.00 | 0.574 | 69.3 | 260.5 | 5.5 | 0.292 |
| 4- 580 | 4-1180 | 0.216 | 195.0 | 24.9 | 4.91 | 1.210 | 90.2 | 0.441 | 1.760 | 359.2 | 574.5 | 0.984 | 2.536 | 2.53 | 0.574 | 68.6 | 265.0 | 4.5 | 0.300 |
| 4- 580 | 4-1200 | 0.224 | 204.4 | 22.3 | 5.32 | 1.213 | 91.9 | 0.448 | 1.780 | 353.9 | 575.2 | 0.982 | 2.578 | 2.22 | 0.574 | 67.8 | 269.7 | 3.8 | 0.308 |
| 4- 580 | 4-1220 | 0.236 | 212.9 | 19.0 | 5.63 | 1.216 | 93.6 | 0.457 | 1.800 | 348.6 | 575.8 | 0.978 | 2.622 | 1.99 | 0.573 | 67.0 | 274.5 | 3.3 | 0.316 |
| 4- 580 | 4-1240 | 0.252 | 220.3 | 15.5 | 5.88 | 1.218 | 95.3 | 0.467 | 1.820 | 343.3 | 576.4 | 0.970 | 2.669 | 1.83 | 0.572 | 66.1 | 279.4 | 3.0 | 0.324 |
| 4- 580 | 4-1260 | 0.271 | 226.9 | 11.9 | 6.10 | 1.221 | 97.1 | 0.478 | 1.839 | 337.9 | 576.8 | 0.960 | 2.718 | 1.71 | 0.571 | 65.1 | 284.3 | 2.7 | 0.332 |
| 4- 580 | 4-1280 | 0.294 | 232.7 | 8.6 | 6.28 | 1.223 | 98.9 | 0.490 | 1.859 | 332.6 | 577.1 | 0.947 | 2.770 | 1.62 | 0.569 | 64.1 | 289.2 | 2.4 | 0.341 |
| 4- 590 | 4- 730 | 0.599 | 118.0 | 34.6 | 7.03 | 1.271 | 63.2 | 0.693 | 2.394 | 67.3 | 132.2 | --- | --- | -0.23 | 0.864 | 133.8 | 255.0 | -0.2 | 0.547 |
| 4- 590 | 4- 750 | 0.567 | 114.7 | 35.5 | 7.06 | 1.229 | 63.6 | 0.621 | 1.908 | 72.0 | 142.4 | --- | --- | -0.22 | 0.585 | 126.7 | 254.1 | -0.2 | 0.451 |
| 4- 590 | 4- 770 | 0.545 | 112.6 | 36.1 | 7.08 | 1.202 | 64.1 | 0.578 | 1.695 | 75.1 | 151.3 | --- | --- | -0.21 | 0.533 | 119.4 | 252.5 | -0.3 | 0.378 |
| 4- 590 | 4- 790 | 0.528 | 111.4 | 36.7 | 7.10 | 1.185 | 64.5 | 0.550 | 1.586 | 76.8 | 158.8 | --- | --- | -0.21 | 0.500 | 112.2 | 250.1 | -0.3 | 0.322 |
| 4- 590 | 4- 810 | 0.513 | 111.0 | 37.1 | 7.12 | 1.174 | 65.1 | 0.530 | 1.526 | 77.4 | 165.3 | --- | --- | -0.21 | 0.482 | 105.5 | 247.0 | -0.3 | 0.280 |
| 4- 590 | 4- 830 | 0.499 | 111.3 | 37.6 | 7.14 | 1.168 | 65.8 | 0.516 | 1.494 | 77.0 | 170.9 | --- | --- | -0.21 | 0.475 | 99.4 | 243.3 | -0.4 | 0.251 |
| 4- 590 | 4- 850 | 0.485 | 112.1 | 38.0 | 7.17 | 1.165 | 66.5 | 0.504 | 1.479 | 75.9 | 175.8 | --- | --- | -0.21 | 0.475 | 94.2 | 239.3 | -0.4 | 0.231 |
| 4- 590 | 4- 870 | 0.471 | 113.3 | 38.5 | 7.19 | 1.165 | 67.3 | 0.493 | 1.476 | 74.1 | 180.2 | --- | 2.204 | -0.22 | 0.479 | 89.8 | 235.5 | -0.5 | 0.219 |
| 4- 590 | 4- 890 | 0.457 | 114.9 | 39.0 | 7.21 | 1.165 | 68.2 | 0.484 | 1.479 | 71.8 | 184.2 | --- | 2.196 | -0.22 | 0.487 | 86.1 | 232.3 | -0.5 | 0.213 |
| 4- 590 | 4- 910 | 0.442 | 116.9 | 39.6 | 7.24 | 1.167 | 69.2 | 0.476 | 1.488 | 69.0 | 187.7 | --- | 2.197 | -0.24 | 0.496 | 83.1 | 230.0 | -0.5 | 0.212 |
| 4- 590 | 4- 930 | 0.426 | 119.3 | 40.2 | 7.27 | 1.170 | 70.2 | 0.469 | 1.501 | 65.9 | 191.0 | --- | 2.205 | -0.25 | 0.506 | 80.6 | 228.6 | -0.6 | 0.215 |
| 4- 590 | 4- 950 | 0.410 | 122.1 | 40.8 | 7.31 | 1.172 | 71.3 | 0.462 | 1.517 | 62.5 | 194.0 | --- | 2.217 | -0.28 | 0.516 | 78.5 | 228.3 | -0.6 | 0.219 |
| 4- 590 | 4- 970 | 0.393 | 125.3 | 41.5 | 7.36 | 1.176 | 72.5 | 0.456 | 1.534 | 58.8 | 196.8 | --- | 2.233 | -0.31 | 0.525 | 76.8 | 228.9 | -0.7 | 0.225 |
| 4- 590 | 4- 990 | 0.377 | 128.9 | 42.3 | 7.42 | 1.179 | 73.7 | 0.450 | 1.553 | 54.8 | 199.3 | --- | 2.252 | -0.36 | 0.534 | 75.5 | 230.3 | -0.8 | 0.232 |
| 4- 590 | 4-1010 | 0.360 | 133.0 | 43.1 | 7.50 | 1.183 | 75.0 | 0.445 | 1.573 | 50.6 | 201.7 | --- | 2.274 | -0.43 | 0.542 | 74.3 | 232.4 | -0.9 | 0.240 |
| 4- 590 | 4-1030 | 0.344 | 137.8 | 44.0 | 7.63 | 1.186 | 76.3 | 0.441 | 1.594 | 46.3 | 203.8 | --- | 2.297 | -0.54 | 0.549 | 73.4 | 235.1 | -1.2 | 0.247 |
| 4- 590 | 4-1050 | 0.329 | 143.4 | 45.1 | 7.85 | 1.190 | 77.6 | 0.438 | 1.615 | 41.7 | 205.7 | --- | 2.323 | -0.75 | 0.555 | 72.6 | 238.2 | -1.6 | 0.255 |
| 4- 590 | 4-1070 | 0.318 | 150.2 | 47.0 | 8.36 | 1.193 | 79.0 | 0.436 | 1.637 | 37.0 | 207.5 | --- | 2.351 | -1.25 | 0.561 | 71.8 | 241.7 | -2.5 | 0.262 |
| 4- 590 | 4-1090 | 0.332 | 161.4 | 54.8 | 10.97 | 1.196 | 80.4 | 0.435 | 1.659 | 32.1 | 209.1 | --- | 2.380 | -3.85 | 0.565 | 71.2 | 245.7 | -7.6 | 0.272 |
| 4- 590 | 4-1110 | 0.250 | 156.2 | 28.4 | 3.56 | 1.200 | 81.9 | 0.434 | 1.681 | 27.2 | 210.5 | --- | 2.411 | 3.57 | 0.568 | 70.6 | 249.7 | 6.9 | 0.278 |
| 4- 590 | 4-1130 | 0.253 | 168.1 | 37.0 | 5.91 | 1.203 | 83.3 | 0.435 | 1.703 | 22.1 | 211.7 | --- | 2.444 | 1.23 | 0.570 | 70.0 | 253.8 | 2.3 | 0.283 |
| 4- 590 | 4-1150 | 0.247 | 177.6 | 37.3 | 6.40 | 1.206 | 84.9 | 0.437 | 1.724 | 17.0 | 212.9 | --- | 2.478 | 0.78 | 0.572 | 69.4 | 258.3 | 1.4 | 0.289 |
| 4- 590 | 4-1170 | 0.241 | 187.0 | 35.9 | 6.62 | 1.209 | 86.4 | 0.440 | 1.746 | 11.8 | 213.8 | --- | 2.515 | 0.55 | 0.573 | 68.9 | 262.8 | 1.0 | 0.296 |
| 4- 590 | 4-1190 | 0.238 | 196.3 | 33.4 | 6.74 | 1.212 | 88.0 | 0.445 | 1.767 | 6.5 | 214.7 | --- | 2.554 | 0.44 | 0.573 | 68.2 | 267.4 | 0.8 | 0.302 |
| 4- 590 | 4-1210 | 0.238 | 205.2 | 30.1 | 6.82 | 1.214 | 89.6 | 0.450 | 1.789 | 1.3 | 215.4 | --- | 2.594 | 0.37 | 0.573 | 67.6 | 272.2 | 0.6 | 0.309 |
| 4- 590 | 4-1230 | 0.242 | 213.6 | 26.2 | 6.88 | 1.217 | 91.3 | 0.457 | 1.810 | 356.0 | 576.0 | 0.983 | 2.637 | 0.32 | 0.573 | 66.9 | 276.9 | 0.5 | 0.315 |
| 4- 590 | 4-1250 | 0.250 | 221.3 | 22.0 | 6.93 | 1.220 | 92.9 | 0.465 | 1.830 | 350.7 | 576.5 | 0.979 | 2.681 | 0.29 | 0.572 | 66.2 | 281.8 | 0.5 | 0.322 |
| 4- 590 | 4-1270 | 0.262 | 228.3 | 17.8 | 6.96 | 1.222 | 94.7 | 0.474 | 1.851 | 345.4 | 577.0 | 0.973 | 2.726 | 0.26 | 0.571 | 65.3 | 286.7 | 0.4 | 0.329 |
| 4- 590 | 4-1290 | 0.278 | 234.6 | 13.7 | 7.00 | 1.225 | 96.4 | 0.485 | 1.871 | 340.2 | 577.3 | 0.964 | 2.777 | 0.25 | 0.569 | 64.5 | 291.6 | 0.4 | 0.336 |
| 4- 600 | 4- 720 | 0.741 | 121.0 | 32.1 | 7.88 | 1.297 | 55.8 | 0.780 | 2.847 | 80.2 | 132.1 | --- | --- | 1.34 | 0.710 | 140.5 | 252.7 | 0.9 | 0.639 |
| 4- 600 | 4- 740 | 0.688 | 118.1 | 32.9 | 7.73 | 1.239 | 56.9 | 0.693 | 2.006 | 85.0 | 142.6 | --- | --- | 1.25 | 0.603 | 133.1 | 251.7 | 1.1 | 0.519 |
| 4- 600 | 4- 760 | 0.652 | 116.2 | 33.4 | 7.59 | 1.203 | 57.8 | 0.642 | 1.707 | 88.2 | 151.4 | --- | --- | 1.18 | 0.533 | 125.2 | 250.1 | 1.2 | 0.430 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 600 | 4- 780 | 0.625 | 115.3 | 33.7 | 7.46 | 1.181 | 58.7 | 0.609 | 1.567 | 89.8 | 158.8 | --- | --- | 1.13 | 0.489 | 117.0 | 247.8 | 1.4 | 0.364 |
| 4- 600 | 4- 800 | 0.603 | 115.1 | 34.0 | 7.34 | 1.168 | 59.6 | 0.586 | 1.494 | 90.2 | 165.0 | --- | --- | 1.09 | 0.464 | 109.2 | 244.8 | 1.5 | 0.316 |
| 4- 600 | 4- 820 | 0.583 | 115.4 | 34.2 | 7.23 | 1.161 | 60.5 | 0.568 | 1.457 | 89.7 | 170.4 | --- | --- | 1.07 | 0.453 | 102.1 | 241.3 | 1.7 | 0.280 |
| 4- 600 | 4- 840 | 0.564 | 116.2 | 34.4 | 7.11 | 1.157 | 61.4 | 0.553 | 1.440 | 88.3 | 175.1 | --- | --- | 1.06 | 0.451 | 96.0 | 237.5 | 1.8 | 0.257 |
| 4- 600 | 4- 860 | 0.546 | 117.4 | 34.5 | 7.00 | 1.156 | 62.5 | 0.540 | 1.436 | 86.4 | 179.3 | --- | --- | 1.06 | 0.456 | 90.8 | 233.9 | 2.0 | 0.242 |
| 4- 600 | 4- 880 | 0.528 | 118.8 | 34.7 | 6.88 | 1.157 | 63.5 | 0.528 | 1.440 | 84.0 | 183.1 | --- | 2.201 | 1.07 | 0.465 | 86.5 | 230.8 | 2.1 | 0.233 |
| 4- 600 | 4- 900 | 0.509 | 120.6 | 34.8 | 6.76 | 1.159 | 64.6 | 0.518 | 1.450 | 81.2 | 186.6 | --- | 2.200 | 1.09 | 0.475 | 83.0 | 228.6 | 2.2 | 0.231 |
| 4- 600 | 4- 920 | 0.490 | 122.6 | 34.9 | 6.63 | 1.162 | 65.8 | 0.507 | 1.464 | 78.0 | 189.8 | --- | 2.207 | 1.14 | 0.487 | 80.2 | 227.3 | 2.4 | 0.231 |
| 4- 600 | 4- 940 | 0.470 | 124.9 | 34.9 | 6.49 | 1.165 | 67.0 | 0.498 | 1.481 | 74.6 | 192.8 | --- | 2.218 | 1.20 | 0.498 | 77.9 | 227.0 | 2.5 | 0.235 |
| 4- 600 | 4- 960 | 0.450 | 127.4 | 34.9 | 6.33 | 1.169 | 68.3 | 0.489 | 1.500 | 70.8 | 195.5 | --- | 2.234 | 1.28 | 0.510 | 76.1 | 227.5 | 2.7 | 0.239 |
| 4- 600 | 4- 980 | 0.430 | 130.2 | 34.8 | 6.13 | 1.173 | 69.6 | 0.481 | 1.521 | 66.9 | 198.0 | --- | 2.252 | 1.40 | 0.520 | 74.7 | 228.9 | 2.9 | 0.245 |
| 4- 600 | 4-1000 | 0.408 | 133.2 | 34.4 | 5.90 | 1.177 | 70.9 | 0.473 | 1.543 | 62.7 | 200.4 | --- | 2.273 | 1.57 | 0.530 | 73.5 | 230.9 | 3.2 | 0.251 |
| 4- 600 | 4-1020 | 0.387 | 136.5 | 33.9 | 5.59 | 1.181 | 72.3 | 0.467 | 1.565 | 58.4 | 202.5 | --- | 2.296 | 1.80 | 0.539 | 72.6 | 233.5 | 3.6 | 0.258 |
| 4- 600 | 4-1040 | 0.364 | 140.0 | 32.8 | 5.18 | 1.185 | 73.7 | 0.461 | 1.588 | 53.9 | 204.5 | --- | 2.320 | 2.15 | 0.547 | 71.8 | 236.6 | 4.2 | 0.264 |
| 4- 600 | 4-1060 | 0.341 | 143.6 | 30.8 | 4.55 | 1.189 | 75.1 | 0.456 | 1.612 | 49.2 | 206.3 | --- | 2.347 | 2.71 | 0.553 | 71.1 | 240.0 | 5.2 | 0.271 |
| 4- 600 | 4-1080 | 0.316 | 146.9 | 26.9 | 3.47 | 1.192 | 76.6 | 0.452 | 1.635 | 44.4 | 208.0 | --- | 2.374 | 3.73 | 0.559 | 70.6 | 243.8 | 7.1 | 0.278 |
| 4- 600 | 4-1100 | 0.290 | 148.6 | 17.4 | 1.09 | 1.196 | 78.0 | 0.449 | 1.659 | 39.5 | 209.5 | --- | 2.404 | 6.06 | 0.563 | 70.1 | 248.1 | 11.2 | 0.289 |
| 4- 600 | 4-1120 | 0.322 | 137.1 | -20.9 | -9.11 | 1.200 | 79.5 | 0.447 | 1.682 | 34.6 | 210.8 | --- | 2.435 | 16.19 | 0.566 | 69.6 | 255.1 | 26.3 | 0.334 |
| 4- 600 | 4-1140 | 0.601 | 221.0 | 78.0 | 28.75 | 1.203 | 81.1 | 0.446 | 1.706 | 29.1 | 212.0 | --- | 2.466 | -21.72 | 0.569 | 69.2 | 261.9 | -32.0 | 0.371 |
| 4- 600 | 4-1160 | 0.354 | 190.7 | 56.4 | 13.79 | 1.206 | 82.6 | 0.446 | 1.729 | 24.1 | 213.1 | --- | 2.501 | -6.82 | 0.571 | 68.7 | 261.3 | -11.9 | 0.306 |
| 4- 600 | 4-1180 | 0.307 | 193.6 | 48.3 | 10.99 | 1.209 | 84.2 | 0.448 | 1.752 | 19.0 | 214.0 | --- | 2.536 | -4.07 | 0.572 | 68.3 | 265.5 | -7.1 | 0.305 |
| 4- 600 | 4-1200 | 0.284 | 199.8 | 43.1 | 9.80 | 1.212 | 85.7 | 0.451 | 1.774 | 13.8 | 214.8 | --- | 2.574 | -2.94 | 0.572 | 67.8 | 270.1 | -5.0 | 0.309 |
| 4- 600 | 4-1220 | 0.270 | 207.0 | 38.5 | 9.13 | 1.215 | 87.3 | 0.454 | 1.797 | 8.6 | 215.5 | --- | 2.613 | -2.33 | 0.572 | 67.3 | 274.7 | -3.9 | 0.313 |
| 4- 600 | 4-1240 | 0.263 | 214.4 | 33.9 | 8.69 | 1.218 | 89.0 | 0.459 | 1.818 | 3.3 | 216.2 | --- | 2.654 | -1.95 | 0.572 | 66.7 | 279.5 | -3.2 | 0.318 |
| 4- 600 | 4-1260 | 0.261 | 221.8 | 29.3 | 8.38 | 1.221 | 90.6 | 0.466 | 1.840 | 358.1 | 576.7 | 0.983 | 2.696 | -1.69 | 0.571 | 66.1 | 284.3 | -2.7 | 0.323 |
| 4- 600 | 4-1280 | 0.265 | 228.9 | 24.6 | 8.14 | 1.223 | 92.3 | 0.473 | 1.861 | 352.9 | 577.1 | 0.981 | 2.741 | -1.51 | 0.570 | 65.4 | 289.1 | -2.4 | 0.328 |
| 4- 600 | 4-1300 | 0.272 | 235.5 | 19.9 | 7.95 | 1.226 | 94.0 | 0.481 | 1.882 | 347.7 | 577.5 | 0.976 | 2.788 | -1.38 | 0.569 | 64.6 | 294.0 | -2.1 | 0.333 |
| 4- 610 | 4- 730 | 0.841 | 121.6 | 30.7 | 9.07 | 1.258 | 48.7 | 0.781 | 2.224 | 98.8 | 143.5 | --- | --- | 3.25 | 0.640 | 141.3 | 249.1 | 2.1 | 0.615 |
| 4- 610 | 4- 750 | 0.782 | 120.1 | 31.1 | 8.66 | 1.208 | 50.4 | 0.720 | 1.745 | 101.8 | 152.0 | --- | --- | 2.97 | 0.542 | 132.9 | 247.5 | 2.3 | 0.503 |
| 4- 610 | 4- 770 | 0.741 | 119.3 | 31.3 | 8.30 | 1.178 | 51.9 | 0.681 | 1.553 | 103.1 | 159.1 | --- | --- | 2.75 | 0.479 | 123.8 | 245.3 | 2.6 | 0.421 |
| 4- 610 | 4- 790 | 0.708 | 119.3 | 31.4 | 7.98 | 1.161 | 53.2 | 0.654 | 1.461 | 103.2 | 165.0 | --- | --- | 2.59 | 0.443 | 114.6 | 242.4 | 2.9 | 0.362 |
| 4- 610 | 4- 810 | 0.680 | 119.7 | 31.5 | 7.70 | 1.151 | 54.5 | 0.632 | 1.416 | 102.4 | 170.1 | --- | --- | 2.47 | 0.426 | 106.1 | 239.1 | 3.2 | 0.320 |
| 4- 610 | 4- 830 | 0.656 | 120.6 | 31.5 | 7.43 | 1.147 | 55.7 | 0.613 | 1.395 | 100.9 | 174.5 | --- | --- | 2.38 | 0.422 | 98.6 | 235.6 | 3.4 | 0.291 |
| 4- 610 | 4- 850 | 0.632 | 121.8 | 31.4 | 7.17 | 1.146 | 57.0 | 0.597 | 1.390 | 98.7 | 178.5 | --- | --- | 2.32 | 0.427 | 92.2 | 232.2 | 3.6 | 0.272 |
| 4- 610 | 4- 870 | 0.610 | 123.2 | 31.3 | 6.92 | 1.147 | 58.3 | 0.582 | 1.395 | 96.2 | 182.1 | --- | 2.206 | 2.29 | 0.436 | 87.1 | 229.4 | 3.8 | 0.260 |
| 4- 610 | 4- 890 | 0.587 | 124.8 | 31.2 | 6.67 | 1.149 | 59.6 | 0.568 | 1.406 | 93.3 | 185.4 | --- | 2.204 | 2.28 | 0.449 | 83.0 | 227.3 | 4.0 | 0.255 |
| 4- 610 | 4- 910 | 0.565 | 126.7 | 31.0 | 6.42 | 1.152 | 61.0 | 0.554 | 1.421 | 90.0 | 188.5 | --- | 2.209 | 2.31 | 0.463 | 79.7 | 226.0 | 4.1 | 0.254 |
| 4- 610 | 4- 930 | 0.542 | 128.7 | 30.8 | 6.15 | 1.156 | 62.4 | 0.542 | 1.440 | 86.5 | 191.4 | --- | 2.220 | 2.34 | 0.477 | 77.2 | 225.7 | 4.3 | 0.255 |
| 4- 610 | 4- 950 | 0.519 | 130.9 | 30.4 | 5.87 | 1.161 | 63.7 | 0.530 | 1.460 | 82.8 | 194.1 | --- | 2.235 | 2.45 | 0.490 | 75.1 | 226.2 | 4.5 | 0.258 |
| 4- 610 | 4- 970 | 0.495 | 133.2 | 30.0 | 5.56 | 1.165 | 65.2 | 0.519 | 1.483 | 78.8 | 196.6 | --- | 2.253 | 2.58 | 0.503 | 73.6 | 227.5 | 4.7 | 0.263 |
| 4- 610 | 4- 990 | 0.472 | 135.7 | 29.3 | 5.20 | 1.170 | 66.6 | 0.509 | 1.507 | 74.7 | 198.9 | --- | 2.273 | 2.76 | 0.515 | 72.4 | 229.5 | 5.1 | 0.268 |
| 4- 610 | 4-1010 | 0.448 | 138.3 | 28.4 | 4.79 | 1.174 | 68.1 | 0.499 | 1.531 | 70.4 | 201.1 | --- | 2.296 | 3.01 | 0.526 | 71.4 | 232.0 | 5.5 | 0.273 |
| 4- 610 | 4-1030 | 0.423 | 141.0 | 27.1 | 4.29 | 1.179 | 69.5 | 0.491 | 1.556 | 65.9 | 203.1 | --- | 2.320 | 3.36 | 0.535 | 70.7 | 235.0 | 6.1 | 0.278 |
| 4- 610 | 4-1050 | 0.398 | 143.8 | 25.2 | 3.64 | 1.183 | 71.0 | 0.483 | 1.581 | 61.3 | 205.0 | --- | 2.345 | 3.86 | 0.543 | 70.1 | 238.4 | 7.0 | 0.284 |
| 4- 610 | 4-1070 | 0.373 | 146.5 | 22.4 | 2.77 | 1.187 | 72.5 | 0.476 | 1.607 | 56.5 | 206.7 | --- | 2.372 | 4.59 | 0.550 | 69.6 | 242.1 | 8.2 | 0.290 |
| 4- 610 | 4-1090 | 0.348 | 148.9 | 17.8 | 1.47 | 1.191 | 74.0 | 0.470 | 1.632 | 51.7 | 208.3 | --- | 2.400 | 5.75 | 0.556 | 69.2 | 246.2 | 10.1 | 0.297 |
| 4- 610 | 4-1110 | 0.325 | 150.1 | 9.5 | -0.70 | 1.195 | 75.6 | 0.466 | 1.658 | 46.8 | 209.7 | --- | 2.430 | 7.80 | 0.561 | 68.8 | 250.7 | 13.4 | 0.306 |
| 4- 610 | 4-1130 | 0.320 | 147.4 | -7.7 | -5.26 | 1.199 | 77.1 | 0.462 | 1.683 | 41.9 | 211.0 | --- | 2.461 | 12.23 | 0.564 | 68.5 | 256.0 | 20.0 | 0.326 |
| 4- 610 | 4-1150 | 0.488 | 123.1 | -41.9 | -20.89 | 1.203 | 78.5 | 0.460 | 1.708 | 37.1 | 212.2 | --- | 2.494 | 27.74 | 0.567 | 68.1 | 267.1 | 35.7 | 0.420 |
| 4- 610 | 4-1170 | 1.099 | 344.3 | 77.9 | 58.14 | 1.206 | 80.7 | 0.456 | 1.732 | 30.2 | 213.1 | --- | 2.522 | -51.42 | 0.569 | 68.0 | 285.6 | -42.9 | 0.606 |
| 4- 610 | 4-1190 | 0.499 | 212.2 | 67.3 | 22.76 | 1.209 | 82.0 | 0.457 | 1.756 | 25.9 | 214.1 | --- | 2.559 | -16.16 | 0.570 | 67.6 | 271.0 | -24.6 | 0.352 |
| 4- 610 | 4-1210 | 0.383 | 207.9 | 55.6 | 15.90 | 1.212 | 83.5 | 0.458 | 1.780 | 20.8 | 214.9 | --- | 2.596 | -9.42 | 0.571 | 67.2 | 273.6 | -15.2 | 0.328 |
| 4- 610 | 4-1230 | 0.334 | 211.0 | 48.1 | 13.07 | 1.215 | 85.1 | 0.461 | 1.803 | 15.7 | 215.6 | --- | 2.634 | -6.71 | 0.571 | 66.8 | 277.8 | -10.9 | 0.324 |
| 4- 610 | 4-1250 | 0.307 | 216.3 | 42.2 | 11.51 | 1.218 | 86.7 | 0.464 | 1.826 | 10.5 | 216.2 | --- | 2.673 | -5.27 | 0.571 | 66.3 | 282.3 | -8.5 | 0.325 |
| 4- 610 | 4-1270 | 0.291 | 222.5 | 36.9 | 10.51 | 1.221 | 88.3 | 0.468 | 1.849 | 5.4 | 216.8 | --- | 2.714 | -4.39 | 0.570 | 65.8 | 287.0 | -7.0 | 0.327 |
| 4- 610 | 4-1290 | 0.282 | 229.0 | 31.8 | 9.79 | 1.224 | 89.9 | 0.474 | 1.871 | 0.3 | 217.2 | --- | 2.757 | -3.80 | 0.569 | 65.3 | 291.7 | -6.0 | 0.330 |
| 4- 610 | 4-1310 | 0.279 | 235.5 | 26.7 | 9.25 | 1.226 | 91.6 | 0.480 | 1.892 | 355.2 | 577.6 | 0.983 | 2.801 | -3.38 | 0.568 | 64.7 | 296.5 | -5.2 | 0.333 |
| 4- 620 | 4- 740 | 0.946 | 123.9 | 29.2 | 10.75 | 1.222 | 41.4 | 0.812 | 1.865 | 115.9 | 153.4 | --- | --- | 5.66 | 0.571 | 143.0 | 245.0 | 3.2 | 0.605 |
| 4- 620 | 4- 760 | 0.880 | 123.3 | 29.3 | 9.93 | 1.179 | 43.8 | 0.766 | 1.563 | 116.8 | 159.8 | --- | --- | 5.03 | 0.480 | 133.2 | 242.9 | 3.5 | 0.500 |
| 4- 620 | 4- 780 | 0.832 | 123.5 | 29.3 | 9.26 | 1.154 | 45.8 | 0.733 | 1.435 | 116.4 | 165.2 | --- | --- | 4.57 | 0.425 | 122.7 | 240.2 | 3.8 | 0.425 |
| 4- 620 | 4- 800 | 0.793 | 124.1 | 29.2 | 8.69 | 1.141 | 47.6 | 0.706 | 1.375 | 115.2 | 169.9 | --- | --- | 4.21 | 0.397 | 112.2 | 237.2 | 4.2 | 0.372 |
| 4- 620 | 4- 820 | 0.760 | 125.0 | 29.1 | 8.19 | 1.135 | 49.3 | 0.684 | 1.349 | 113.3 | 173.9 | --- | --- | 3.95 | 0.387 | 102.7 | 233.9 | 4.5 | 0.335 |
| 4- 620 | 4- 840 | 0.730 | 126.3 | 28.9 | 7.74 | 1.133 | 50.9 | 0.663 | 1.341 | 111.0 | 177.6 | --- | --- | 3.74 | 0.391 | 94.7 | 230.8 | 4.7 | 0.310 |
| 4- 620 | 4- 860 | 0.702 | 127.7 | 28.6 | 7.32 | 1.134 | 52.5 | 0.644 | 1.345 | 108.3 | 181.0 | --- | 2.212 | 3.60 | 0.401 | 88.2 | 228.1 | 4.9 | 0.295 |
| 4- 620 | 4- 880 | 0.675 | 129.3 | 28.3 | 6.93 | 1.137 | 54.1 | 0.627 | 1.356 | 105.2 | 184.1 | --- | 2.207 | 3.50 | 0.416 | 83.1 | 226.1 | 5.1 | 0.286 |
| 4- 620 | 4- 900 | 0.648 | 131.1 | 28.0 | 6.54 | 1.141 | 55.7 | 0.610 | 1.373 | 101.9 | 187.1 | --- | 2.211 | 3.45 | 0.433 | 79.2 | 224.9 | 5.2 | 0.282 |
| 4- 620 | 4- 920 | 0.622 | 133.0 | 27.5 | 6.16 | 1.145 | 57.2 | 0.594 | 1.393 | 98.3 | 189.9 | --- | 2.221 | 3.44 | 0.450 | 76.2 | 224.6 | 5.3 | 0.281 |
| 4- 620 | 4- 940 | 0.596 | 135.0 | 27.0 | 5.77 | 1.150 | 58.8 | 0.579 | 1.416 | 94.5 | 192.5 | --- | 2.236 | 3.47 | 0.466 | 73.9 | 225.1 | 5.5 | 0.282 |
| 4- 620 | 4- 960 | 0.570 | 137.0 | 26.4 | 5.37 | 1.155 | 60.4 | 0.565 | 1.440 | 90.6 | 194.9 | --- | 2.254 | 3.55 | 0.482 | 72.2 | 226.3 | 5.7 | 0.285 |
| 4- 620 | 4- 980 | 0.544 | 139.2 | 25.6 | 4.94 | 1.161 | 62.0 | 0.552 | 1.466 | 86.4 | 197.3 | --- | 2.274 | 3.68 | 0.496 | 70.9 | 228.2 | 6.0 | 0.288 |
| 4- 620 | 4-1000 | 0.518 | 141.5 | 24.6 | 4.47 | 1.166 | 63.6 | 0.539 | 1.492 | 82.1 | 199.5 | --- | 2.296 | 3.87 | 0.509 | 69.9 | 230.6 | 6.3 | 0.292 |
| 4- 620 | 4-1020 | 0.491 | 143.8 | 23.4 | 3.94 | 1.171 | 65.1 | 0.527 | 1.519 | 77.7 | 201.6 | --- | 2.320 | 4.14 | 0.521 | 69.2 | 233.5 | 6.8 | 0.296 |
| 4- 620 | 4-1040 | 0.465 | 146.2 | 21.8 | 3.33 | 1.176 | 66.7 | 0.517 | 1.546 | 73.1 | 203.5 | --- | 2.345 | 4.51 | 0.531 | 68.6 | 236.9 | 7.4 | 0.301 |
| 4- 620 | 4-1060 | 0.438 | 148.5 | 19.7 | 2.58 | 1.181 | 68.3 | 0.507 | 1.574 | 68.5 | 205.3 | --- | 2.372 | 5.03 | 0.539 | 68.2 | 240.5 | 8.3 | 0.305 |
| 4- 620 | 4-1080 | 0.412 | 150.7 | 16.7 | 1.64 | 1.185 | 69.9 | 0.498 | 1.601 | 63.7 | 206.9 | --- | 2.399 | 5.75 | 0.547 | 67.9 | 244.4 | 9.4 | 0.310 |
| 4- 620 | 4-1100 | 0.386 | 152.7 | 12.4 | 0.37 | 1.190 | 71.5 | 0.491 | 1.628 | 58.8 | 208.4 | --- | 2.428 | 6.81 | 0.553 | 67.6 | 248.7 | 11.1 | 0.315 |
| 4- 620 | 4-1120 | 0.364 | 153.9 | 5.9 | -1.47 | 1.194 | 73.1 | 0.484 | 1.655 | 53.9 | 209.8 | --- | 2.457 | 8.45 | 0.558 | 67.4 | 253.2 | 13.6 | 0.322 |
| 4- 620 | 4-1140 | 0.350 | 153.2 | -4.9 | -4.47 | 1.198 | 74.6 | 0.479 | 1.682 | 49.0 | 211.1 | --- | 2.488 | 11.25 | 0.562 | 67.2 | 258.2 | 17.6 | 0.334 |
| 4- 620 | 4-1160 | 0.374 | 147.0 | -23.3 | -10.36 | 1.202 | 76.1 | 0.475 | 1.708 | 44.1 | 212.2 | --- | 2.521 | 16.96 | 0.565 | 67.0 | 264.5 | 24.8 | 0.361 |
| 4- 620 | 4-1180 | 0.591 | 118.8 | -46.1 | -26.95 | 1.205 | 77.6 | 0.473 | 1.734 | 39.5 | 213.3 | --- | 2.555 | 33.36 | 0.567 | 66.7 | 277.2 | 37.7 | 0.468 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 620 | 4-1220 | 0.677 | 231.3 | 74.9 | 33.11 | 1.212 | 81.4 | 0.467 | 1.785 | 27.3 | 214.9 | --- | 2.619 | -27.06 | 0.569 | 66.6 | 283.3 | -34.1 | 0.423 |
| 4- 620 | 4-1240 | 0.473 | 219.7 | 60.9 | 21.26 | 1.215 | 82.9 | 0.468 | 1.809 | 22.6 | 215.6 | --- | 2.656 | -15.39 | 0.569 | 66.2 | 282.7 | -22.7 | 0.359 |
| 4- 620 | 4-1260 | 0.391 | 220.4 | 52.0 | 16.49 | 1.218 | 84.4 | 0.470 | 1.833 | 17.6 | 216.2 | --- | 2.695 | -10.80 | 0.569 | 65.9 | 286.0 | -16.5 | 0.343 |
| 4- 620 | 4-1280 | 0.346 | 224.2 | 45.2 | 13.92 | 1.221 | 86.0 | 0.473 | 1.856 | 12.6 | 216.8 | --- | 2.734 | -8.39 | 0.569 | 65.5 | 290.2 | -12.9 | 0.338 |
| 4- 620 | 4-1300 | 0.319 | 229.3 | 39.3 | 12.28 | 1.224 | 87.6 | 0.477 | 1.879 | 7.5 | 217.3 | --- | 2.775 | -6.94 | 0.568 | 65.0 | 294.7 | -10.7 | 0.336 |
| 4- 620 | 4-1320 | 0.303 | 235.2 | 33.9 | 11.14 | 1.226 | 89.2 | 0.482 | 1.901 | 2.5 | 217.7 | --- | 2.818 | -5.97 | 0.567 | 64.5 | 299.3 | -9.1 | 0.337 |
| 4- 630 | 4- 750 | 1.053 | 127.2 | 27.6 | 13.25 | 1.190 | 34.0 | 0.858 | 1.640 | 131.0 | 181.3 | --- | --- | 8.90 | 0.506 | 145.8 | 240.8 | 4.1 | 0.612 |
| 4- 630 | 4- 770 | 0.979 | 127.5 | 27.5 | 11.75 | 1.152 | 37.0 | 0.820 | 1.432 | 129.9 | 165.9 | --- | --- | 7.64 | 0.418 | 134.4 | 238.4 | 4.5 | 0.512 |
| 4- 630 | 4- 790 | 0.924 | 128.3 | 27.3 | 10.59 | 1.132 | 39.5 | 0.789 | 1.343 | 128.1 | 169.9 | --- | --- | 6.74 | 0.369 | 121.9 | 235.6 | 4.8 | 0.442 |
| 4- 630 | 4- 810 | 0.878 | 129.4 | 27.0 | 9.66 | 1.122 | 41.9 | 0.762 | 1.305 | 125.9 | 173.5 | --- | --- | 6.07 | 0.349 | 109.7 | 232.6 | 5.1 | 0.393 |
| 4- 630 | 4- 830 | 0.840 | 130.7 | 26.7 | 8.87 | 1.119 | 44.0 | 0.738 | 1.292 | 123.2 | 176.8 | --- | --- | 5.57 | 0.348 | 99.0 | 229.7 | 5.3 | 0.360 |
| 4- 630 | 4- 850 | 0.805 | 132.3 | 26.3 | 8.19 | 1.119 | 46.0 | 0.715 | 1.294 | 120.2 | 179.8 | --- | --- | 5.20 | 0.358 | 90.4 | 227.2 | 5.5 | 0.338 |
| 4- 630 | 4- 870 | 0.772 | 133.9 | 25.9 | 7.57 | 1.122 | 47.9 | 0.694 | 1.305 | 117.0 | 182.8 | --- | 2.210 | 4.91 | 0.375 | 83.8 | 225.3 | 5.7 | 0.324 |
| 4- 630 | 4- 890 | 0.741 | 135.7 | 25.4 | 7.01 | 1.127 | 49.8 | 0.674 | 1.321 | 113.5 | 185.5 | --- | 2.212 | 4.71 | 0.395 | 78.8 | 224.1 | 5.8 | 0.316 |
| 4- 630 | 4- 910 | 0.711 | 137.5 | 24.8 | 6.48 | 1.132 | 51.6 | 0.654 | 1.343 | 109.9 | 188.2 | --- | 2.221 | 4.58 | 0.416 | 75.2 | 223.8 | 5.9 | 0.313 |
| 4- 630 | 4- 930 | 0.681 | 139.4 | 24.2 | 5.97 | 1.138 | 53.4 | 0.636 | 1.366 | 106.0 | 190.7 | --- | 2.238 | 4.50 | 0.436 | 72.5 | 224.2 | 6.0 | 0.311 |
| 4- 630 | 4- 950 | 0.652 | 141.4 | 23.5 | 5.47 | 1.144 | 55.2 | 0.619 | 1.392 | 102.1 | 193.1 | --- | 2.254 | 4.48 | 0.455 | 70.5 | 225.3 | 6.2 | 0.312 |
| 4- 630 | 4- 970 | 0.623 | 143.4 | 22.6 | 4.96 | 1.150 | 57.0 | 0.602 | 1.420 | 97.9 | 195.5 | --- | 2.274 | 4.52 | 0.472 | 69.1 | 227.1 | 6.4 | 0.314 |
| 4- 630 | 4- 990 | 0.595 | 145.4 | 21.6 | 4.43 | 1.156 | 58.7 | 0.586 | 1.448 | 93.6 | 197.7 | --- | 2.297 | 4.62 | 0.488 | 68.0 | 229.5 | 6.6 | 0.316 |
| 4- 630 | 4-1010 | 0.566 | 147.5 | 20.5 | 3.87 | 1.161 | 60.4 | 0.571 | 1.477 | 89.2 | 199.8 | --- | 2.321 | 4.78 | 0.502 | 67.3 | 232.3 | 7.0 | 0.318 |
| 4- 630 | 4-1030 | 0.538 | 149.6 | 19.1 | 3.27 | 1.167 | 62.2 | 0.558 | 1.506 | 84.7 | 201.7 | --- | 2.348 | 5.03 | 0.515 | 66.8 | 235.5 | 7.4 | 0.321 |
| 4- 630 | 4-1050 | 0.509 | 151.7 | 17.3 | 2.58 | 1.172 | 63.9 | 0.545 | 1.536 | 80.1 | 203.6 | --- | 2.372 | 5.37 | 0.526 | 66.5 | 239.0 | 8.0 | 0.324 |
| 4- 630 | 4-1070 | 0.481 | 153.8 | 15.1 | 1.79 | 1.178 | 65.5 | 0.533 | 1.565 | 75.4 | 205.3 | --- | 2.399 | 5.85 | 0.535 | 66.2 | 242.8 | 8.8 | 0.327 |
| 4- 630 | 4-1090 | 0.454 | 155.8 | 12.3 | 0.85 | 1.183 | 67.2 | 0.523 | 1.594 | 70.6 | 206.9 | --- | 2.428 | 6.49 | 0.543 | 66.1 | 246.9 | 9.8 | 0.330 |
| 4- 630 | 4-1110 | 0.428 | 157.5 | 8.5 | -0.34 | 1.187 | 68.9 | 0.513 | 1.623 | 65.8 | 208.4 | --- | 2.457 | 7.40 | 0.549 | 66.0 | 251.2 | 11.2 | 0.333 |
| 4- 630 | 4-1130 | 0.404 | 158.7 | 3.2 | -1.91 | 1.192 | 70.5 | 0.505 | 1.652 | 60.9 | 209.8 | --- | 2.488 | 8.70 | 0.554 | 65.9 | 255.8 | 13.1 | 0.338 |
| 4- 630 | 4-1150 | 0.386 | 158.9 | -4.4 | -4.15 | 1.196 | 72.1 | 0.498 | 1.680 | 55.9 | 211.0 | --- | 2.517 | 10.68 | 0.559 | 65.9 | 260.7 | 15.9 | 0.345 |
| 4- 630 | 4-1170 | 0.383 | 156.7 | -15.9 | -7.67 | 1.200 | 73.7 | 0.493 | 1.708 | 51.0 | 212.1 | --- | 2.549 | 13.95 | 0.562 | 65.8 | 266.1 | 20.2 | 0.358 |
| 4- 630 | 4-1190 | 0.427 | 148.2 | -32.3 | -14.16 | 1.204 | 75.2 | 0.489 | 1.735 | 46.2 | 213.1 | --- | 2.583 | 20.20 | 0.564 | 65.7 | 273.0 | 27.1 | 0.389 |
| 4- 630 | 4-1210 | 0.641 | 120.5 | -47.5 | -29.69 | 1.208 | 76.6 | 0.486 | 1.762 | 41.8 | 214.0 | --- | 2.618 | 35.49 | 0.566 | 65.5 | 285.5 | 37.7 | 0.489 |
| 4- 630 | 4-1250 | 0.886 | 248.8 | 81.9 | 45.18 | 1.214 | 80.9 | 0.477 | 1.813 | 28.5 | 215.5 | --- | 2.678 | -39.83 | 0.567 | 65.6 | 298.0 | -39.8 | 0.517 |
| 4- 630 | 4-1270 | 0.577 | 228.5 | 65.5 | 27.28 | 1.217 | 82.2 | 0.478 | 1.838 | 24.2 | 216.2 | --- | 2.718 | -22.16 | 0.567 | 65.3 | 292.8 | -29.2 | 0.398 |
| 4- 630 | 4-1290 | 0.453 | 227.8 | 55.2 | 20.15 | 1.220 | 83.7 | 0.480 | 1.863 | 19.5 | 216.7 | --- | 2.756 | -15.25 | 0.567 | 65.0 | 294.7 | -21.8 | 0.365 |
| 4- 630 | 4-1310 | 0.388 | 230.7 | 47.6 | 16.38 | 1.223 | 85.3 | 0.482 | 1.886 | 14.6 | 217.3 | --- | 2.796 | -11.71 | 0.567 | 64.7 | 298.3 | -17.2 | 0.352 |
| 4- 630 | 4-1330 | 0.349 | 235.1 | 41.3 | 14.04 | 1.226 | 86.8 | 0.485 | 1.910 | 9.8 | 217.7 | --- | 2.837 | -9.59 | 0.566 | 64.3 | 302.5 | -14.2 | 0.346 |
| 4- 640 | 4- 760 | 1.160 | 131.2 | 26.0 | 17.28 | 1.163 | 26.5 | 0.908 | 1.493 | 144.0 | 167.3 | --- | --- | 13.68 | 0.447 | 150.1 | 237.1 | 4.8 | 0.634 |
| 4- 640 | 4- 780 | 1.078 | 132.2 | 25.6 | 14.47 | 1.128 | 30.1 | 0.875 | 1.337 | 141.3 | 170.3 | --- | --- | 11.16 | 0.359 | 136.9 | 234.6 | 5.1 | 0.537 |
| 4- 640 | 4- 800 | 1.015 | 133.5 | 25.2 | 12.49 | 1.112 | 33.2 | 0.845 | 1.272 | 138.5 | 173.2 | --- | --- | 9.47 | 0.314 | 121.8 | 231.8 | 5.4 | 0.470 |
| 4- 640 | 4- 820 | 0.964 | 135.0 | 24.7 | 10.99 | 1.105 | 36.1 | 0.818 | 1.248 | 135.4 | 176.0 | --- | --- | 8.28 | 0.300 | 107.1 | 229.2 | 5.6 | 0.424 |
| 4- 640 | 4- 840 | 0.919 | 136.7 | 24.2 | 9.79 | 1.104 | 38.6 | 0.792 | 1.244 | 132.1 | 178.7 | --- | --- | 7.42 | 0.307 | 94.9 | 226.8 | 5.8 | 0.393 |
| 4- 640 | 4- 860 | 0.879 | 138.4 | 23.7 | 8.80 | 1.106 | 41.0 | 0.767 | 1.252 | 128.6 | 181.3 | --- | 2.213 | 6.77 | 0.326 | 85.6 | 224.9 | 5.9 | 0.372 |
| 4- 640 | 4- 880 | 0.843 | 140.2 | 23.0 | 7.95 | 1.111 | 43.3 | 0.744 | 1.269 | 125.0 | 183.9 | --- | 2.212 | 6.29 | 0.349 | 78.9 | 223.8 | 6.0 | 0.359 |
| 4- 640 | 4- 900 | 0.808 | 142.1 | 22.4 | 7.19 | 1.116 | 45.4 | 0.721 | 1.290 | 121.3 | 186.4 | --- | 2.220 | 5.94 | 0.374 | 74.2 | 223.4 | 6.1 | 0.351 |
| 4- 640 | 4- 920 | 0.774 | 144.0 | 21.7 | 6.50 | 1.123 | 47.5 | 0.699 | 1.314 | 117.4 | 188.8 | --- | 2.234 | 5.68 | 0.399 | 70.9 | 223.7 | 6.2 | 0.347 |
| 4- 640 | 4- 940 | 0.742 | 145.9 | 20.9 | 5.85 | 1.130 | 49.6 | 0.679 | 1.341 | 113.3 | 191.2 | --- | 2.252 | 5.51 | 0.422 | 68.5 | 224.7 | 6.3 | 0.344 |
| 4- 640 | 4- 960 | 0.710 | 147.8 | 20.0 | 5.23 | 1.137 | 51.5 | 0.659 | 1.370 | 109.2 | 193.4 | --- | 2.273 | 5.41 | 0.443 | 66.9 | 226.4 | 6.4 | 0.344 |
| 4- 640 | 4- 980 | 0.678 | 149.8 | 19.0 | 4.62 | 1.143 | 53.5 | 0.640 | 1.400 | 104.9 | 195.6 | --- | 2.298 | 5.38 | 0.463 | 65.8 | 228.6 | 6.6 | 0.344 |
| 4- 640 | 4-1000 | 0.647 | 151.7 | 17.9 | 4.00 | 1.150 | 55.4 | 0.622 | 1.431 | 100.5 | 197.7 | --- | 2.321 | 5.43 | 0.480 | 65.0 | 231.2 | 6.9 | 0.345 |
| 4- 640 | 4-1020 | 0.616 | 153.7 | 16.6 | 3.37 | 1.156 | 57.3 | 0.605 | 1.462 | 96.1 | 199.7 | --- | 2.346 | 5.54 | 0.495 | 64.6 | 234.3 | 7.2 | 0.346 |
| 4- 640 | 4-1040 | 0.586 | 155.7 | 15.1 | 2.70 | 1.163 | 59.1 | 0.589 | 1.493 | 91.5 | 201.7 | --- | 2.373 | 5.74 | 0.508 | 64.3 | 237.7 | 7.6 | 0.347 |
| 4- 640 | 4-1060 | 0.556 | 157.6 | 13.3 | 1.98 | 1.169 | 60.9 | 0.575 | 1.524 | 86.8 | 203.5 | --- | 2.400 | 6.02 | 0.520 | 64.2 | 241.5 | 8.1 | 0.348 |
| 4- 640 | 4-1080 | 0.527 | 159.5 | 11.1 | 1.17 | 1.174 | 62.7 | 0.561 | 1.555 | 82.1 | 205.2 | --- | 2.428 | 6.43 | 0.530 | 64.1 | 245.4 | 8.8 | 0.349 |
| 4- 640 | 4-1100 | 0.499 | 161.3 | 8.5 | 0.24 | 1.180 | 64.5 | 0.549 | 1.586 | 77.3 | 206.7 | --- | 2.457 | 6.97 | 0.538 | 64.2 | 249.6 | 9.7 | 0.350 |
| 4- 640 | 4-1120 | 0.471 | 162.9 | 5.1 | -0.86 | 1.185 | 66.2 | 0.538 | 1.617 | 72.5 | 208.2 | --- | 2.487 | 7.72 | 0.545 | 64.2 | 254.0 | 10.8 | 0.352 |
| 4- 640 | 4-1140 | 0.446 | 164.1 | 0.8 | -2.22 | 1.189 | 67.9 | 0.528 | 1.647 | 67.6 | 209.5 | --- | 2.517 | 8.75 | 0.550 | 64.3 | 258.5 | 12.3 | 0.354 |
| 4- 640 | 4-1160 | 0.425 | 164.8 | -5.0 | -4.00 | 1.194 | 69.6 | 0.519 | 1.677 | 62.7 | 210.8 | --- | 2.548 | 10.21 | 0.555 | 64.4 | 263.3 | 14.4 | 0.358 |
| 4- 640 | 4-1180 | 0.411 | 164.2 | -13.0 | -6.48 | 1.198 | 71.2 | 0.512 | 1.706 | 57.8 | 211.9 | --- | 2.580 | 12.38 | 0.558 | 64.4 | 268.3 | 17.3 | 0.364 |
| 4- 640 | 4-1200 | 0.416 | 160.9 | -23.9 | -10.25 | 1.202 | 72.8 | 0.506 | 1.735 | 53.0 | 212.9 | --- | 2.612 | 15.85 | 0.561 | 64.5 | 274.0 | 21.5 | 0.378 |
| 4- 640 | 4-1220 | 0.469 | 151.2 | -37.8 | -16.76 | 1.206 | 74.3 | 0.501 | 1.763 | 48.3 | 213.8 | --- | 2.646 | 22.08 | 0.563 | 64.4 | 281.0 | 27.9 | 0.408 |
| 4- 640 | 4-1240 | 0.660 | 125.7 | -48.6 | -30.48 | 1.210 | 75.7 | 0.499 | 1.790 | 43.9 | 214.6 | --- | 2.683 | 35.52 | 0.564 | 64.3 | 292.7 | 36.8 | 0.493 |
| 4- 640 | 4-1280 | 1.120 | 324.3 | 89.4 | 59.22 | 1.216 | 80.5 | 0.486 | 1.843 | 29.4 | 216.0 | --- | 2.738 | -54.71 | 0.565 | 64.8 | 314.2 | -41.6 | 0.629 |
| 4- 640 | 4-1300 | 0.699 | 233.5 | 70.1 | 34.27 | 1.219 | 81.6 | 0.488 | 1.868 | 25.8 | 216.6 | --- | 2.779 | -30.02 | 0.565 | 64.5 | 304.2 | -34.6 | 0.449 |
| 4- 640 | 4-1320 | 0.524 | 233.3 | 58.3 | 24.17 | 1.222 | 83.0 | 0.489 | 1.893 | 21.4 | 217.2 | --- | 2.818 | -20.19 | 0.565 | 64.2 | 303.9 | -26.7 | 0.391 |
| 4- 640 | 4-1340 | 0.434 | 235.8 | 49.9 | 18.97 | 1.225 | 84.5 | 0.491 | 1.917 | 16.8 | 217.7 | --- | 2.858 | -15.25 | 0.565 | 63.9 | 306.6 | -21.3 | 0.368 |
| 4- 650 | 4- 790 | 1.175 | 137.3 | 23.6 | 18.89 | 1.108 | 23.2 | 0.923 | 1.268 | 151.4 | 173.6 | --- | --- | 16.38 | 0.304 | 141.1 | 231.7 | 5.4 | 0.573 |
| 4- 650 | 4- 810 | 1.105 | 139.1 | 23.0 | 15.34 | 1.093 | 26.9 | 0.896 | 1.218 | 147.7 | 175.6 | --- | --- | 13.16 | 0.259 | 122.6 | 229.2 | 5.6 | 0.507 |
| 4- 650 | 4- 830 | 1.048 | 140.9 | 22.3 | 12.89 | 1.089 | 30.2 | 0.869 | 1.202 | 144.0 | 177.8 | --- | --- | 11.05 | 0.251 | 104.5 | 227.0 | 5.8 | 0.462 |
| 4- 650 | 4- 850 | 0.998 | 142.8 | 21.7 | 11.07 | 1.089 | 33.2 | 0.842 | 1.204 | 140.2 | 180.0 | --- | --- | 9.59 | 0.267 | 90.1 | 225.2 | 5.9 | 0.432 |
| 4- 650 | 4- 870 | 0.954 | 144.7 | 20.9 | 9.64 | 1.093 | 36.0 | 0.817 | 1.217 | 136.4 | 182.2 | --- | 2.211 | 8.54 | 0.293 | 80.2 | 224.0 | 6.0 | 0.411 |
| 4- 650 | 4- 890 | 0.913 | 146.6 | 20.2 | 8.47 | 1.099 | 38.6 | 0.792 | 1.237 | 132.5 | 184.5 | --- | 2.216 | 7.77 | 0.323 | 73.5 | 223.4 | 6.1 | 0.398 |
| 4- 650 | 4- 910 | 0.874 | 148.5 | 19.4 | 7.47 | 1.106 | 41.0 | 0.767 | 1.261 | 128.5 | 186.8 | --- | 2.229 | 7.19 | 0.354 | 69.2 | 223.6 | 6.1 | 0.389 |
| 4- 650 | 4- 930 | 0.838 | 150.4 | 18.5 | 6.58 | 1.114 | 43.4 | 0.744 | 1.289 | 124.4 | 189.0 | --- | 2.247 | 6.77 | 0.382 | 66.3 | 224.5 | 6.2 | 0.383 |
| 4- 650 | 4- 950 | 0.802 | 152.3 | 17.6 | 5.78 | 1.122 | 45.6 | 0.721 | 1.318 | 120.2 | 191.2 | --- | 2.269 | 6.47 | 0.408 | 64.3 | 226.0 | 6.3 | 0.379 |
| 4- 650 | 4- 970 | 0.768 | 154.3 | 16.5 | 5.04 | 1.129 | 47.8 | 0.700 | 1.349 | 115.9 | 193.4 | --- | 2.293 | 6.27 | 0.432 | 63.1 | 228.0 | 6.4 | 0.377 |
| 4- 650 | 4- 990 | 0.734 | 156.2 | 15.4 | 4.33 | 1.137 | 49.9 | 0.679 | 1.381 | 111.5 | 195.5 | --- | 2.318 | 6.15 | 0.453 | 62.3 | 230.5 | 6.6 | 0.376 |
| 4- 650 | 4-1010 | 0.701 | 158.1 | 14.2 | 3.63 | 1.144 | 52.0 | 0.659 | 1.413 | 107.1 | 197.5 | --- | 2.345 | 6.12 | 0.471 | 61.9 | 233.4 | 6.8 | 0.374 |
| 4- 650 | 4-1030 | 0.668 | 160.0 | 12.9 | 2.93 | 1.151 | 54.0 | 0.640 | 1.446 | 102.6 | 199.5 | --- | 2.372 | 6.16 | 0.487 | 61.7 | 236.7 | 7.1 | 0.374 |
| 4- 650 | 4-1050 | 0.636 | 161.8 | 11.3 | 2.21 | 1.158 | 56.0 | 0.623 | 1.479 | 98.0 | 201.3 | --- | 2.400 | 6.29 | 0.502 | 61.7 | 240.3 | 7.5 | 0.373 |
| 4- 650 | 4-1070 | 0.605 | 163.7 | 9.5 | 1.46 | 1.164 | 57.9 | 0.606 | 1.512 | 93.3 | 203.1 | --- | 2.429 | 6.50 | 0.514 | 61.7 | 244.1 | 7.9 | 0.372 |
| 4- 650 | 4-1090 | 0.574 | 165.4 | 7.5 | 0.65 | 1.170 | 59.8 | 0.591 | 1.545 | 88.6 | 204.8 | --- | 2.458 | 6.82 | 0.524 | 61.9 | 248.2 | 8.5 | 0.371 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 650 | 4-1110 | 0.545 | 167.1 | 5.0 | -0.24 | 1.176 | 61.6 | 0.577 | 1.578 | 83.8 | 206.3 | --- | 2.488 | 7.26 | 0.533 | 62.1 | 252.4 | 9.2 | 0.371 |
| 4- 650 | 4-1130 | 0.516 | 168.7 | 2.1 | -1.27 | 1.181 | 63.4 | 0.564 | 1.610 | 79.0 | 207.8 | --- | 2.518 | 7.86 | 0.540 | 62.3 | 256.8 | 10.2 | 0.370 |
| 4- 650 | 4-1150 | 0.490 | 170.0 | -1.6 | -2.47 | 1.186 | 65.2 | 0.552 | 1.642 | 74.2 | 209.1 | --- | 2.548 | 8.68 | 0.546 | 62.6 | 261.3 | 11.4 | 0.371 |
| 4- 650 | 4-1170 | 0.466 | 170.9 | -6.2 | -3.95 | 1.191 | 67.0 | 0.542 | 1.673 | 69.3 | 210.4 | --- | 2.579 | 9.76 | 0.551 | 62.8 | 266.0 | 12.9 | 0.372 |
| 4- 650 | 4-1190 | 0.447 | 171.1 | -12.1 | -5.84 | 1.196 | 68.6 | 0.533 | 1.703 | 64.4 | 211.5 | --- | 2.611 | 11.29 | 0.555 | 63.0 | 270.9 | 15.0 | 0.374 |
| 4- 650 | 4-1210 | 0.437 | 169.9 | -19.9 | -8.41 | 1.200 | 70.3 | 0.525 | 1.733 | 59.6 | 212.5 | --- | 2.643 | 13.52 | 0.557 | 63.1 | 276.1 | 17.8 | 0.380 |
| 4- 650 | 4-1230 | 0.447 | 166.1 | -29.9 | -12.18 | 1.204 | 71.9 | 0.519 | 1.762 | 54.9 | 213.4 | --- | 2.677 | 16.97 | 0.560 | 63.2 | 281.8 | 21.8 | 0.392 |
| 4- 650 | 4-1250 | 0.500 | 156.0 | -41.5 | -18.34 | 1.208 | 73.4 | 0.514 | 1.791 | 50.3 | 214.3 | --- | 2.711 | 22.81 | 0.561 | 63.3 | 288.7 | 27.6 | 0.419 |
| 4- 650 | 4-1270 | 0.659 | 133.2 | -49.9 | -30.08 | 1.211 | 74.8 | 0.511 | 1.819 | 46.0 | 215.1 | --- | 2.748 | 34.24 | 0.562 | 63.2 | 299.2 | 35.4 | 0.487 |
| 4- 650 | 4-1330 | 0.846 | 232.0 | 75.1 | 42.73 | 1.221 | 81.0 | 0.497 | 1.898 | 27.3 | 217.0 | --- | 2.840 | -39.46 | 0.563 | 63.6 | 317.0 | -38.7 | 0.513 |
| 4- 650 | 4-1350 | 0.605 | 236.6 | 61.5 | 28.78 | 1.223 | 82.3 | 0.498 | 1.922 | 23.4 | 217.5 | --- | 2.880 | -25.80 | 0.563 | 63.4 | 313.8 | -31.2 | 0.423 |
| 4- 660 | 4- 800 | 1.270 | 142.7 | 21.5 | 27.05 | 1.092 | 16.6 | 0.960 | 1.221 | 160.3 | 176.0 | --- | --- | 25.33 | 0.256 | 147.7 | 230.0 | 5.4 | 0.618 |
| 4- 660 | 4- 820 | 1.193 | 144.8 | 20.7 | 20.02 | 1.078 | 20.6 | 0.937 | 1.178 | 156.0 | 177.3 | --- | --- | 18.66 | 0.206 | 125.1 | 227.9 | 5.6 | 0.552 |
| 4- 660 | 4- 840 | 1.130 | 146.8 | 19.8 | 15.78 | 1.074 | 24.4 | 0.913 | 1.166 | 151.8 | 178.9 | --- | --- | 14.78 | 0.202 | 101.6 | 226.0 | 5.7 | 0.506 |
| 4- 660 | 4- 860 | 1.076 | 148.9 | 19.0 | 12.91 | 1.076 | 27.7 | 0.888 | 1.172 | 147.7 | 180.7 | --- | 2.212 | 12.30 | 0.226 | 84.5 | 224.7 | 5.8 | 0.475 |
| 4- 660 | 4- 880 | 1.027 | 150.9 | 18.1 | 10.82 | 1.081 | 30.9 | 0.862 | 1.188 | 143.6 | 182.7 | --- | 2.212 | 10.60 | 0.261 | 73.9 | 224.0 | 5.8 | 0.453 |
| 4- 660 | 4- 900 | 0.983 | 152.9 | 17.2 | 9.19 | 1.089 | 33.8 | 0.837 | 1.210 | 139.4 | 184.7 | --- | 2.222 | 9.39 | 0.298 | 67.6 | 224.0 | 5.9 | 0.439 |
| 4- 660 | 4- 920 | 0.941 | 154.9 | 16.3 | 7.87 | 1.097 | 36.5 | 0.812 | 1.236 | 135.2 | 186.8 | --- | 2.240 | 8.52 | 0.333 | 63.7 | 224.7 | 5.9 | 0.428 |
| 4- 660 | 4- 940 | 0.901 | 156.9 | 15.3 | 6.75 | 1.105 | 39.1 | 0.787 | 1.265 | 131.0 | 188.9 | --- | 2.261 | 7.87 | 0.365 | 61.3 | 226.0 | 6.0 | 0.421 |
| 4- 660 | 4- 960 | 0.863 | 158.8 | 14.2 | 5.77 | 1.114 | 41.6 | 0.763 | 1.297 | 126.7 | 191.0 | --- | 2.286 | 7.40 | 0.394 | 59.9 | 227.8 | 6.1 | 0.415 |
| 4- 660 | 4- 980 | 0.826 | 160.7 | 13.1 | 4.89 | 1.122 | 44.0 | 0.740 | 1.329 | 122.3 | 193.1 | --- | 2.313 | 7.06 | 0.420 | 59.1 | 230.1 | 6.2 | 0.411 |
| 4- 660 | 4-1000 | 0.790 | 162.6 | 11.9 | 4.07 | 1.130 | 46.3 | 0.718 | 1.363 | 117.9 | 195.1 | --- | 2.341 | 6.83 | 0.442 | 58.7 | 232.9 | 6.3 | 0.408 |
| 4- 660 | 4-1020 | 0.755 | 164.5 | 10.7 | 3.29 | 1.138 | 48.5 | 0.696 | 1.397 | 113.4 | 197.1 | --- | 2.369 | 6.70 | 0.462 | 58.6 | 236.0 | 6.5 | 0.405 |
| 4- 660 | 4-1040 | 0.721 | 166.3 | 9.2 | 2.54 | 1.146 | 50.7 | 0.676 | 1.431 | 108.8 | 199.0 | --- | 2.399 | 6.66 | 0.479 | 58.7 | 239.4 | 6.8 | 0.402 |
| 4- 660 | 4-1060 | 0.687 | 168.1 | 7.7 | 1.78 | 1.153 | 52.8 | 0.657 | 1.466 | 104.2 | 200.8 | --- | 2.428 | 6.71 | 0.494 | 58.9 | 243.1 | 7.1 | 0.400 |
| 4- 660 | 4-1080 | 0.655 | 169.9 | 6.0 | 1.01 | 1.160 | 54.9 | 0.638 | 1.500 | 99.6 | 202.6 | --- | 2.458 | 6.84 | 0.507 | 59.2 | 247.0 | 7.5 | 0.397 |
| 4- 660 | 4-1100 | 0.623 | 171.6 | 4.0 | 0.20 | 1.166 | 56.8 | 0.621 | 1.535 | 94.8 | 204.2 | --- | 2.488 | 7.06 | 0.518 | 59.5 | 251.1 | 8.0 | 0.395 |
| 4- 660 | 4-1120 | 0.592 | 173.2 | 1.7 | -0.66 | 1.172 | 58.8 | 0.606 | 1.569 | 90.1 | 205.8 | --- | 2.519 | 7.39 | 0.527 | 59.9 | 255.4 | 8.6 | 0.392 |
| 4- 660 | 4-1140 | 0.562 | 174.7 | -0.9 | -1.61 | 1.178 | 60.7 | 0.591 | 1.602 | 85.3 | 207.2 | --- | 2.549 | 7.85 | 0.535 | 60.3 | 259.8 | 9.4 | 0.390 |
| 4- 660 | 4-1160 | 0.534 | 176.1 | -4.1 | -2.69 | 1.183 | 62.5 | 0.578 | 1.635 | 80.5 | 208.6 | --- | 2.580 | 8.47 | 0.541 | 60.7 | 264.3 | 10.3 | 0.388 |
| 4- 660 | 4-1180 | 0.509 | 177.1 | -7.8 | -3.94 | 1.188 | 64.3 | 0.566 | 1.668 | 75.7 | 209.8 | --- | 2.612 | 9.30 | 0.546 | 61.1 | 268.9 | 11.5 | 0.387 |
| 4- 660 | 4-1200 | 0.486 | 177.8 | -12.5 | -5.46 | 1.193 | 66.0 | 0.555 | 1.699 | 70.9 | 210.9 | --- | 2.643 | 10.41 | 0.550 | 61.4 | 273.6 | 13.1 | 0.386 |
| 4- 660 | 4-1220 | 0.469 | 177.7 | -18.3 | -7.37 | 1.197 | 67.8 | 0.546 | 1.731 | 66.1 | 212.0 | --- | 2.678 | 11.93 | 0.553 | 61.7 | 278.5 | 15.1 | 0.387 |
| 4- 660 | 4-1240 | 0.462 | 176.3 | -25.6 | -9.91 | 1.201 | 69.4 | 0.538 | 1.761 | 61.4 | 213.0 | --- | 2.709 | 14.11 | 0.556 | 61.9 | 283.7 | 17.8 | 0.391 |
| 4- 660 | 4-1260 | 0.472 | 172.3 | -34.5 | -13.51 | 1.205 | 71.0 | 0.532 | 1.790 | 56.7 | 213.8 | --- | 2.742 | 17.36 | 0.558 | 62.1 | 289.3 | 21.5 | 0.401 |
| 4- 660 | 4-1280 | 0.520 | 162.7 | -44.4 | -19.10 | 1.209 | 72.5 | 0.526 | 1.819 | 52.2 | 214.7 | --- | 2.777 | 22.61 | 0.559 | 62.2 | 296.0 | 26.7 | 0.423 |
| 4- 660 | 4-1300 | 0.648 | 142.5 | -51.6 | -28.93 | 1.212 | 73.9 | 0.523 | 1.847 | 48.0 | 215.4 | --- | 2.813 | 32.11 | 0.560 | 62.2 | 305.3 | 33.6 | 0.476 |
| 4- 660 | 4-1320 | 0.964 | 114.2 | -47.1 | -49.01 | 1.216 | 75.1 | 0.522 | 1.875 | 44.5 | 216.1 | --- | 2.853 | 51.87 | 0.561 | 62.0 | 321.4 | 39.7 | 0.610 |
| 4- 660 | 4-1360 | 1.026 | 214.1 | 79.6 | 53.36 | 1.222 | 80.4 | 0.505 | 1.927 | 28.8 | 217.3 | --- | 2.901 | -51.13 | 0.561 | 62.9 | 331.3 | -40.8 | 0.595 |
| 4- 670 | 4- 830 | 1.279 | 150.5 | 18.2 | 28.75 | 1.066 | 14.6 | 0.968 | 1.149 | 163.4 | 178.4 | --- | --- | 28.21 | 0.157 | 130.4 | 227.5 | 5.4 | 0.601 |
| 4- 670 | 4- 850 | 1.210 | 152.8 | 17.2 | 20.53 | 1.062 | 18.6 | 0.949 | 1.139 | 159.0 | 179.5 | --- | --- | 20.36 | 0.154 | 98.5 | 226.1 | 5.5 | 0.554 |
| 4- 670 | 4- 870 | 1.152 | 155.0 | 16.2 | 15.70 | 1.065 | 22.3 | 0.926 | 1.146 | 154.6 | 181.0 | --- | 2.208 | 15.93 | 0.187 | 77.4 | 225.3 | 5.5 | 0.521 |
| 4- 670 | 4- 890 | 1.099 | 157.2 | 15.2 | 12.51 | 1.071 | 25.8 | 0.903 | 1.163 | 150.3 | 182.7 | --- | 2.213 | 13.14 | 0.231 | 66.5 | 225.0 | 5.6 | 0.498 |
| 4- 670 | 4- 910 | 1.052 | 159.3 | 14.2 | 10.21 | 1.078 | 29.0 | 0.878 | 1.187 | 145.9 | 184.6 | --- | 2.229 | 11.27 | 0.274 | 60.8 | 225.4 | 5.6 | 0.481 |
| 4- 670 | 4- 930 | 1.007 | 161.3 | 13.1 | 8.44 | 1.087 | 32.0 | 0.853 | 1.214 | 141.6 | 186.5 | --- | 2.250 | 9.95 | 0.314 | 57.7 | 226.4 | 5.6 | 0.469 |
| 4- 670 | 4- 950 | 0.965 | 163.3 | 12.0 | 7.02 | 1.097 | 34.9 | 0.828 | 1.245 | 137.2 | 188.5 | --- | 2.275 | 8.99 | 0.349 | 56.0 | 228.0 | 5.6 | 0.460 |
| 4- 670 | 4- 970 | 0.924 | 165.3 | 10.9 | 5.82 | 1.106 | 37.6 | 0.804 | 1.277 | 132.8 | 190.5 | --- | 2.303 | 8.30 | 0.380 | 55.1 | 230.1 | 5.7 | 0.452 |
| 4- 670 | 4- 990 | 0.885 | 167.2 | 9.7 | 4.78 | 1.115 | 40.2 | 0.780 | 1.311 | 128.4 | 192.5 | --- | 2.333 | 7.79 | 0.408 | 54.8 | 232.7 | 5.8 | 0.446 |
| 4- 670 | 4-1010 | 0.847 | 169.0 | 8.5 | 3.85 | 1.124 | 42.7 | 0.756 | 1.346 | 123.9 | 194.4 | --- | 2.363 | 7.43 | 0.432 | 54.8 | 235.6 | 5.9 | 0.441 |
| 4- 670 | 4-1030 | 0.810 | 170.9 | 7.1 | 2.99 | 1.132 | 45.0 | 0.733 | 1.381 | 119.4 | 196.4 | --- | 2.394 | 7.19 | 0.453 | 55.1 | 238.9 | 6.1 | 0.436 |
| 4- 670 | 4-1050 | 0.774 | 172.7 | 5.7 | 2.17 | 1.140 | 47.4 | 0.712 | 1.417 | 114.8 | 198.3 | --- | 2.425 | 7.05 | 0.471 | 55.5 | 242.4 | 6.3 | 0.432 |
| 4- 670 | 4-1070 | 0.739 | 174.4 | 4.2 | 1.38 | 1.148 | 49.6 | 0.691 | 1.452 | 110.2 | 200.1 | --- | 2.458 | 7.00 | 0.486 | 56.0 | 246.2 | 6.6 | 0.427 |
| 4- 670 | 4-1090 | 0.705 | 176.2 | 2.5 | 0.59 | 1.155 | 51.7 | 0.671 | 1.488 | 105.6 | 201.8 | --- | 2.487 | 7.04 | 0.500 | 56.5 | 250.1 | 6.9 | 0.423 |
| 4- 670 | 4-1110 | 0.672 | 177.8 | 0.6 | -0.21 | 1.162 | 53.8 | 0.653 | 1.524 | 100.9 | 203.5 | --- | 2.518 | 7.18 | 0.511 | 57.1 | 254.2 | 7.4 | 0.418 |
| 4- 670 | 4-1130 | 0.640 | 179.4 | -1.5 | -1.04 | 1.168 | 55.9 | 0.636 | 1.559 | 96.2 | 205.0 | --- | 2.550 | 7.40 | 0.521 | 57.6 | 258.5 | 7.9 | 0.414 |
| 4- 670 | 4-1150 | 0.610 | 181.0 | -3.8 | -1.93 | 1.174 | 57.8 | 0.620 | 1.594 | 91.4 | 206.5 | --- | 2.581 | 7.73 | 0.529 | 58.2 | 262.9 | 8.5 | 0.410 |
| 4- 670 | 4-1170 | 0.581 | 182.4 | -6.6 | -2.90 | 1.180 | 59.7 | 0.605 | 1.628 | 86.7 | 207.8 | --- | 2.613 | 8.19 | 0.536 | 58.7 | 267.4 | 9.2 | 0.406 |
| 4- 670 | 4-1190 | 0.553 | 183.6 | -9.8 | -3.98 | 1.185 | 61.6 | 0.592 | 1.662 | 81.9 | 209.1 | --- | 2.645 | 8.80 | 0.541 | 59.2 | 271.9 | 10.2 | 0.402 |
| 4- 670 | 4-1210 | 0.528 | 184.5 | -13.5 | -5.24 | 1.190 | 63.4 | 0.580 | 1.694 | 77.2 | 210.3 | --- | 2.677 | 9.61 | 0.546 | 59.7 | 276.6 | 11.3 | 0.400 |
| 4- 670 | 4-1230 | 0.507 | 185.1 | -18.0 | -6.73 | 1.194 | 65.2 | 0.569 | 1.727 | 72.5 | 211.4 | --- | 2.709 | 10.68 | 0.549 | 60.1 | 281.3 | 12.8 | 0.398 |
| 4- 670 | 4-1250 | 0.491 | 184.9 | -23.5 | -8.58 | 1.199 | 66.9 | 0.559 | 1.758 | 67.8 | 212.4 | --- | 2.742 | 12.14 | 0.552 | 60.4 | 286.2 | 14.7 | 0.397 |
| 4- 670 | 4-1270 | 0.484 | 183.5 | -30.2 | -10.99 | 1.203 | 68.5 | 0.551 | 1.789 | 63.1 | 213.3 | --- | 2.775 | 14.17 | 0.554 | 60.7 | 291.2 | 17.2 | 0.399 |
| 4- 670 | 4-1290 | 0.493 | 179.7 | -38.2 | -14.30 | 1.207 | 70.1 | 0.544 | 1.819 | 58.6 | 214.1 | --- | 2.809 | 17.12 | 0.556 | 60.9 | 296.7 | 20.6 | 0.406 |
| 4- 670 | 4-1310 | 0.532 | 171.1 | -46.8 | -19.22 | 1.210 | 71.6 | 0.539 | 1.848 | 54.2 | 214.9 | --- | 2.843 | 21.69 | 0.557 | 61.1 | 303.0 | 25.2 | 0.423 |
| 4- 670 | 4-1330 | 0.631 | 153.4 | -53.6 | -27.31 | 1.214 | 73.1 | 0.535 | 1.876 | 50.0 | 215.6 | --- | 2.879 | 29.45 | 0.558 | 61.2 | 311.2 | 31.4 | 0.462 |
| 4- 670 | 4-1350 | 0.862 | 127.0 | -51.8 | -42.48 | 1.217 | 74.3 | 0.533 | 1.903 | 46.3 | 216.3 | --- | 2.917 | 44.28 | 0.558 | 61.1 | 324.2 | 38.0 | 0.555 |
| 4- 680 | 4- 860 | 1.289 | 158.8 | 14.5 | 29.50 | 1.052 | 13.0 | 0.975 | 1.120 | 165.6 | 179.9 | --- | --- | 30.15 | 0.108 | 94.7 | 227.1 | 5.1 | 0.604 |
| 4- 680 | 4- 880 | 1.226 | 161.1 | 13.4 | 20.32 | 1.055 | 16.9 | 0.957 | 1.127 | 161.1 | 181.0 | --- | 2.205 | 21.36 | 0.151 | 88.1 | 226.6 | 5.1 | 0.569 |
| 4- 680 | 4- 900 | 1.170 | 163.4 | 12.2 | 15.08 | 1.061 | 20.7 | 0.937 | 1.144 | 156.6 | 182.5 | --- | 2.215 | 16.53 | 0.203 | 57.7 | 226.7 | 5.1 | 0.544 |
| 4- 680 | 4- 920 | 1.119 | 165.6 | 11.1 | 11.67 | 1.069 | 24.2 | 0.914 | 1.167 | 152.1 | 184.1 | --- | 2.235 | 13.54 | 0.252 | 53.2 | 227.4 | 5.2 | 0.525 |
| 4- 680 | 4- 940 | 1.072 | 167.7 | 9.9 | 9.25 | 1.079 | 27.5 | 0.890 | 1.195 | 147.7 | 185.9 | --- | 2.260 | 11.58 | 0.295 | 51.1 | 228.7 | 5.2 | 0.511 |
| 4- 680 | 4- 960 | 1.027 | 169.7 | 8.8 | 7.42 | 1.088 | 30.6 | 0.866 | 1.226 | 143.2 | 187.8 | --- | 2.289 | 10.18 | 0.333 | 50.3 | 230.6 | 5.2 | 0.499 |
| 4- 680 | 4- 980 | 0.985 | 171.7 | 7.6 | 5.94 | 1.098 | 33.5 | 0.842 | 1.259 | 138.7 | 189.7 | --- | 2.319 | 9.19 | 0.367 | 50.1 | 232.9 | 5.3 | 0.490 |
| 4- 680 | 4-1000 | 0.944 | 173.6 | 6.3 | 4.71 | 1.108 | 36.3 | 0.817 | 1.294 | 134.2 | 191.7 | --- | 2.352 | 8.47 | 0.396 | 50.3 | 235.6 | 5.3 | 0.482 |
| 4- 680 | 4-1020 | 0.904 | 175.5 | 5.0 | 3.65 | 1.117 | 38.9 | 0.793 | 1.330 | 129.7 | 193.6 | --- | 2.384 | 7.95 | 0.421 | 50.8 | 238.6 | 5.5 | 0.475 |
| 4- 680 | 4-1040 | 0.866 | 177.3 | 3.7 | 2.69 | 1.126 | 41.5 | 0.770 | 1.366 | 125.2 | 195.5 | --- | 2.417 | 7.57 | 0.443 | 51.4 | 242.0 | 5.6 | 0.468 |
| 4- 680 | 4-1060 | 0.828 | 179.1 | 2.3 | 1.82 | 1.134 | 43.9 | 0.747 | 1.402 | 120.6 | 197.4 | --- | 2.450 | 7.33 | 0.462 | 52.1 | 245.6 | 5.8 | 0.461 |
| 4- 680 | 4-1080 | 0.792 | 180.9 | 0.7 | 0.99 | 1.142 | 46.3 | 0.725 | 1.439 | 116.0 | 199.2 | --- | 2.483 | 7.18 | 0.478 | 52.9 | 249.4 | 6.0 | 0.455 |
| 4- 680 | 4-1100 | 0.757 | 182.6 | -0.9 | 0.19 | 1.150 | 48.6 | 0.705 | 1.476 | 111.4 | 200.9 | --- | 2.516 | 7.13 | 0.492 | 53.7 | 253.4 | 6.3 | 0.449 |
| 4- 680 | 4-1120 | 0.723 | 184.2 | -2.7 | -0.60 | 1.157 | 50.8 | 0.685 | 1.513 | 106.7 | 202.6 | --- | 2.549 | 7.17 | 0.504 | 54.4 | 257.5 | 6.6 | 0.442 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 680 | 4-1140 | 0.690 | 185.9 | -4.6 | -1.40 | 1.164 | 52.9 | 0.666 | 1.549 | 102.0 | 204.1 | --- | 2.581 | 7.29 | 0.514 | 55.2 | 261.8 | 7.1 | 0.436 |
| 4- 680 | 4-1160 | 0.658 | 187.4 | -6.7 | -2.23 | 1.170 | 54.9 | 0.649 | 1.585 | 97.4 | 205.6 | --- | 2.613 | 7.51 | 0.523 | 55.9 | 266.1 | 7.6 | 0.430 |
| 4- 680 | 4-1180 | 0.628 | 188.9 | -9.1 | -3.11 | 1.176 | 56.9 | 0.633 | 1.620 | 92.7 | 207.0 | --- | 2.646 | 7.83 | 0.530 | 56.6 | 270.5 | 8.2 | 0.425 |
| 4- 680 | 4-1200 | 0.599 | 190.2 | -11.8 | -4.06 | 1.181 | 58.8 | 0.618 | 1.655 | 88.0 | 208.3 | --- | 2.678 | 8.27 | 0.536 | 57.2 | 275.0 | 8.9 | 0.419 |
| 4- 680 | 4-1220 | 0.572 | 191.4 | -15.0 | -5.11 | 1.187 | 60.7 | 0.605 | 1.689 | 83.3 | 209.5 | --- | 2.710 | 8.84 | 0.540 | 57.8 | 279.6 | 9.8 | 0.414 |
| 4- 680 | 4-1240 | 0.548 | 192.3 | -18.6 | -6.32 | 1.191 | 62.5 | 0.593 | 1.722 | 78.6 | 210.6 | --- | 2.743 | 9.61 | 0.544 | 58.4 | 284.2 | 10.9 | 0.410 |
| 4- 680 | 4-1260 | 0.528 | 192.8 | -22.9 | -7.74 | 1.196 | 64.3 | 0.582 | 1.754 | 74.0 | 211.6 | --- | 2.775 | 10.61 | 0.547 | 58.8 | 288.9 | 12.2 | 0.406 |
| 4- 680 | 4-1280 | 0.512 | 192.7 | -27.9 | -9.48 | 1.200 | 66.0 | 0.572 | 1.786 | 69.4 | 212.6 | --- | 2.808 | 11.95 | 0.550 | 59.2 | 293.7 | 14.0 | 0.404 |
| 4- 680 | 4-1300 | 0.504 | 191.5 | -34.0 | -11.68 | 1.204 | 67.6 | 0.564 | 1.817 | 64.9 | 213.5 | --- | 2.842 | 13.77 | 0.552 | 59.6 | 298.7 | 16.3 | 0.405 |
| 4- 680 | 4-1320 | 0.510 | 188.3 | -41.1 | -14.63 | 1.208 | 69.2 | 0.557 | 1.847 | 60.5 | 214.3 | --- | 2.875 | 16.36 | 0.553 | 59.8 | 303.9 | 19.3 | 0.409 |
| 4- 680 | 4-1340 | 0.539 | 181.1 | -48.8 | -18.85 | 1.211 | 70.7 | 0.551 | 1.876 | 56.1 | 215.1 | --- | 2.909 | 20.23 | 0.555 | 60.0 | 309.8 | 23.3 | 0.420 |
| 4- 680 | 4-1360 | 0.612 | 166.1 | -55.5 | -25.41 | 1.214 | 72.1 | 0.546 | 1.904 | 52.0 | 215.8 | --- | 2.945 | 26.46 | 0.556 | 60.2 | 317.0 | 28.7 | 0.447 |
| 4- 680 | 4-1380 | 0.777 | 141.5 | -56.3 | -36.86 | 1.218 | 73.4 | 0.543 | 1.932 | 48.2 | 216.5 | --- | 2.981 | 37.57 | 0.556 | 60.2 | 327.4 | 35.3 | 0.509 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 920 | 4-1100 | 0.795 | 243.4 | -21.6 | -0.32 | 1.309 | 127.9 | 0.820 | 3.173 | 273.8 | 489.6 | 0.570 | --- | 7.39 | 0.778 | 143.0 | 7.2 | 5.4 | 0.642 |
| 4- 920 | 4-1120 | 0.718 | 243.9 | -20.0 | 0.89 | 1.260 | 125.3 | 0.739 | 2.268 | 273.4 | 495.7 | 0.592 | --- | 6.45 | 0.689 | 137.6 | 8.9 | 5.6 | 0.534 |
| 4- 920 | 4-1140 | 0.662 | 244.4 | -18.5 | 1.83 | 1.226 | 123.2 | 0.680 | 1.905 | 273.2 | 501.8 | 0.609 | --- | 5.79 | 0.621 | 132.1 | 9.6 | 5.9 | 0.449 |
| 4- 920 | 4-1160 | 0.623 | 244.8 | -17.1 | 2.59 | 1.202 | 121.7 | 0.638 | 1.718 | 273.0 | 507.7 | 0.622 | --- | 5.31 | 0.568 | 126.5 | 9.2 | 6.4 | 0.381 |
| 4- 920 | 4-1180 | 0.597 | 245.3 | -15.9 | 3.24 | 1.186 | 120.6 | 0.609 | 1.611 | 272.6 | 513.5 | 0.630 | --- | 4.97 | 0.527 | 120.9 | 7.5 | 6.9 | 0.328 |
| 4- 920 | 4-1200 | 0.582 | 245.9 | -14.8 | 3.81 | 1.175 | 120.0 | 0.590 | 1.546 | 272.1 | 519.0 | 0.634 | --- | 4.72 | 0.495 | 115.2 | 4.4 | 7.3 | 0.288 |
| 4- 920 | 4-1220 | 0.575 | 246.5 | -14.0 | 4.32 | 1.168 | 119.8 | 0.580 | 1.507 | 271.4 | 524.2 | 0.633 | --- | 4.54 | 0.470 | 109.7 | 0.2 | 7.7 | 0.261 |
| 4- 920 | 4-1240 | 0.576 | 247.2 | -13.3 | 4.79 | 1.163 | 119.9 | 0.577 | 1.483 | 270.4 | 529.0 | 0.628 | --- | 4.42 | 0.450 | 104.2 | 355.2 | 7.9 | 0.245 |
| 4- 920 | 4-1260 | 0.583 | 248.0 | -12.8 | 5.24 | 1.161 | 120.3 | 0.579 | 1.470 | 269.1 | 533.4 | 0.619 | --- | 4.36 | 0.435 | 98.9 | 350.3 | 7.8 | 0.239 |
| 4- 920 | 4-1280 | 0.597 | 248.9 | -12.5 | 5.67 | 1.160 | 121.0 | 0.587 | 1.464 | 267.4 | 537.4 | 0.605 | --- | 4.34 | 0.423 | 93.6 | 346.1 | 7.6 | 0.243 |
| 4- 920 | 4-1300 | 0.616 | 250.0 | -12.3 | 6.09 | 1.160 | 122.1 | 0.598 | 1.464 | 265.5 | 541.0 | 0.588 | 2.340 | 4.36 | 0.415 | 88.5 | 343.0 | 7.2 | 0.253 |
| 4- 920 | 4-1320 | 0.640 | 251.2 | -12.3 | 6.51 | 1.160 | 123.3 | 0.614 | 1.468 | 263.2 | 544.2 | 0.586 | 2.369 | 4.42 | 0.408 | 83.4 | 341.3 | 6.7 | 0.268 |
| 4- 920 | 4-1340 | 0.668 | 252.5 | -12.5 | 6.94 | 1.162 | 124.9 | 0.633 | 1.475 | 260.5 | 546.9 | 0.541 | 2.409 | 4.52 | 0.403 | 78.4 | 340.9 | 6.2 | 0.287 |
| 4- 920 | 4-1360 | 0.701 | 253.9 | -12.7 | 7.39 | 1.164 | 126.7 | 0.655 | 1.485 | 257.6 | 549.2 | 0.512 | 2.457 | 4.67 | 0.400 | 73.5 | 341.6 | 5.8 | 0.309 |
| 4- 920 | 4-1380 | 0.739 | 255.5 | -13.0 | 7.86 | 1.166 | 128.7 | 0.680 | 1.496 | 254.3 | 551.1 | 0.479 | 2.513 | 4.86 | 0.399 | 68.6 | 343.1 | 5.4 | 0.332 |
| 4- 920 | 4-1400 | 0.782 | 257.2 | -13.4 | 8.37 | 1.168 | 131.1 | 0.707 | 1.509 | 250.6 | 552.5 | 0.442 | 2.576 | 5.11 | 0.398 | 63.6 | 345.5 | 5.1 | 0.358 |
| 4- 920 | 4-1420 | 0.828 | 259.0 | -13.9 | 8.94 | 1.171 | 133.6 | 0.736 | 1.524 | 246.7 | 553.6 | 0.403 | 2.646 | 5.43 | 0.399 | 58.7 | 348.4 | 4.8 | 0.385 |
| 4- 920 | 4-1440 | 0.879 | 261.0 | -14.4 | 9.57 | 1.174 | 136.5 | 0.766 | 1.540 | 242.4 | 554.3 | 0.360 | 2.720 | 5.83 | 0.400 | 53.7 | 351.9 | 4.6 | 0.413 |
| 4- 920 | 4-1460 | 0.935 | 263.1 | -14.9 | 10.30 | 1.177 | 139.6 | 0.798 | 1.557 | 237.7 | 554.5 | 0.315 | 2.799 | 6.34 | 0.403 | 48.7 | 355.9 | 4.3 | 0.443 |
| 4- 920 | 4-1480 | 0.994 | 265.4 | -15.4 | 11.16 | 1.180 | 143.0 | 0.829 | 1.575 | 232.8 | 554.4 | 0.269 | 2.882 | 6.99 | 0.406 | 43.7 | 0.2 | 4.1 | 0.474 |
| 4- 920 | 4-1500 | 1.058 | 267.7 | -15.9 | 12.21 | 1.183 | 146.6 | 0.861 | 1.594 | 227.5 | 553.8 | 0.222 | 2.967 | 7.85 | 0.410 | 38.5 | 4.9 | 4.0 | 0.506 |
| 4- 920 | 4-1520 | 1.125 | 270.3 | -16.5 | 13.55 | 1.187 | 150.5 | 0.891 | 1.614 | 221.9 | 552.9 | 0.176 | 3.053 | 8.99 | 0.415 | 33.3 | 9.8 | 3.8 | 0.539 |
| 4- 920 | 4-1540 | 1.195 | 273.0 | -16.9 | 15.33 | 1.190 | 154.6 | 0.920 | 1.635 | 216.0 | 551.7 | 0.132 | 3.139 | 10.59 | 0.420 | 28.1 | 15.1 | 3.6 | 0.573 |
| 4- 920 | 4-1560 | 1.267 | 275.7 | -17.4 | 17.87 | 1.194 | 159.0 | 0.945 | 1.657 | 209.8 | 550.1 | 0.092 | 3.223 | 12.94 | 0.427 | 22.9 | 20.6 | 3.5 | 0.608 |
| 4- 920 | 4-1580 | 1.341 | 278.6 | -17.8 | 21.82 | 1.197 | 163.5 | 0.966 | 1.680 | 203.5 | 548.2 | 0.057 | 3.303 | 16.71 | 0.433 | 17.7 | 26.3 | 3.4 | 0.643 |
| 4- 930 | 4-1110 | 0.769 | 251.9 | -21.8 | 0.42 | 1.317 | 126.0 | 0.821 | 3.365 | 278.1 | 487.2 | 0.604 | --- | 6.76 | 0.788 | 142.4 | 11.7 | 5.1 | 0.636 |
| 4- 930 | 4-1130 | 0.694 | 252.3 | -19.8 | 1.71 | 1.268 | 123.4 | 0.735 | 2.363 | 278.0 | 493.3 | 0.626 | --- | 5.67 | 0.700 | 137.2 | 13.5 | 5.1 | 0.530 |
| 4- 930 | 4-1150 | 0.639 | 252.7 | -18.1 | 2.64 | 1.234 | 121.4 | 0.673 | 1.969 | 277.9 | 499.5 | 0.643 | --- | 4.94 | 0.632 | 131.9 | 14.4 | 5.2 | 0.444 |
| 4- 930 | 4-1170 | 0.600 | 253.1 | -16.6 | 3.35 | 1.211 | 119.9 | 0.629 | 1.769 | 277.8 | 505.5 | 0.656 | --- | 4.43 | 0.580 | 126.5 | 14.2 | 5.5 | 0.377 |
| 4- 930 | 4-1190 | 0.573 | 253.5 | -15.3 | 3.94 | 1.194 | 118.8 | 0.598 | 1.654 | 277.6 | 511.3 | 0.685 | --- | 4.06 | 0.539 | 121.1 | 12.9 | 5.8 | 0.323 |
| 4- 930 | 4-1210 | 0.557 | 253.9 | -14.3 | 4.43 | 1.183 | 118.1 | 0.578 | 1.585 | 277.2 | 516.9 | 0.869 | --- | 3.79 | 0.507 | 115.8 | 10.2 | 6.1 | 0.282 |
| 4- 930 | 4-1230 | 0.549 | 254.5 | -13.4 | 4.85 | 1.176 | 117.8 | 0.565 | 1.541 | 276.6 | 522.2 | 0.670 | --- | 3.59 | 0.482 | 110.6 | 6.3 | 6.4 | 0.253 |
| 4- 930 | 4-1250 | 0.548 | 255.1 | -12.8 | 5.24 | 1.171 | 117.8 | 0.560 | 1.515 | 275.7 | 527.1 | 0.666 | --- | 3.45 | 0.462 | 105.4 | 1.5 | 6.5 | 0.235 |
| 4- 930 | 4-1270 | 0.553 | 255.8 | -12.3 | 5.59 | 1.168 | 118.2 | 0.561 | 1.500 | 274.5 | 531.6 | 0.659 | --- | 3.36 | 0.446 | 100.4 | 356.6 | 6.5 | 0.227 |
| 4- 930 | 4-1290 | 0.564 | 256.6 | -12.0 | 5.92 | 1.167 | 118.7 | 0.566 | 1.493 | 273.1 | 535.8 | 0.648 | --- | 3.30 | 0.434 | 95.5 | 352.1 | 6.3 | 0.227 |
| 4- 930 | 4-1310 | 0.579 | 257.5 | -11.9 | 6.24 | 1.166 | 119.6 | 0.575 | 1.491 | 271.3 | 539.5 | 0.633 | --- | 3.27 | 0.425 | 90.7 | 348.7 | 5.9 | 0.234 |
| 4- 930 | 4-1330 | 0.600 | 258.6 | -12.0 | 6.55 | 1.167 | 120.7 | 0.588 | 1.494 | 269.2 | 542.8 | 0.615 | 2.373 | 3.28 | 0.418 | 86.0 | 346.5 | 5.6 | 0.247 |
| 4- 930 | 4-1350 | 0.624 | 259.8 | -12.2 | 6.85 | 1.168 | 122.0 | 0.605 | 1.500 | 266.8 | 545.7 | 0.593 | 2.407 | 3.31 | 0.413 | 81.4 | 345.5 | 5.2 | 0.263 |
| 4- 930 | 4-1370 | 0.652 | 261.1 | -12.4 | 7.17 | 1.170 | 123.5 | 0.624 | 1.509 | 264.1 | 548.3 | 0.568 | 2.450 | 3.38 | 0.409 | 76.8 | 345.7 | 4.8 | 0.281 |
| 4- 930 | 4-1390 | 0.685 | 262.6 | -12.8 | 7.49 | 1.172 | 125.3 | 0.645 | 1.519 | 261.1 | 550.4 | 0.539 | 2.500 | 3.47 | 0.407 | 72.3 | 346.9 | 4.5 | 0.302 |
| 4- 930 | 4-1410 | 0.721 | 264.1 | -13.2 | 7.83 | 1.174 | 127.3 | 0.669 | 1.531 | 257.8 | 552.2 | 0.506 | 2.556 | 3.59 | 0.406 | 67.8 | 348.8 | 4.2 | 0.325 |
| 4- 930 | 4-1430 | 0.762 | 265.8 | -13.6 | 8.19 | 1.176 | 129.5 | 0.695 | 1.545 | 254.2 | 553.6 | 0.471 | 2.619 | 3.76 | 0.406 | 63.3 | 351.3 | 3.9 | 0.348 |
| 4- 930 | 4-1450 | 0.806 | 267.6 | -14.1 | 8.58 | 1.179 | 132.0 | 0.723 | 1.560 | 250.3 | 554.6 | 0.432 | 2.687 | 3.96 | 0.407 | 58.8 | 354.4 | 3.7 | 0.374 |
| 4- 930 | 4-1470 | 0.855 | 269.6 | -14.6 | 9.01 | 1.182 | 134.7 | 0.752 | 1.575 | 246.1 | 555.3 | 0.391 | 2.760 | 4.23 | 0.409 | 54.2 | 358.0 | 3.5 | 0.400 |
| 4- 930 | 4-1490 | 0.907 | 271.6 | -15.1 | 9.51 | 1.184 | 137.6 | 0.782 | 1.592 | 241.5 | 555.6 | 0.347 | 2.838 | 4.55 | 0.412 | 49.6 | 1.9 | 3.3 | 0.428 |
| 4- 930 | 4-1510 | 0.963 | 273.9 | -15.6 | 10.08 | 1.187 | 140.8 | 0.813 | 1.610 | 236.7 | 555.5 | 0.301 | 2.919 | 4.97 | 0.415 | 44.9 | 6.2 | 3.2 | 0.457 |
| 4- 930 | 4-1530 | 1.023 | 276.2 | -16.0 | 10.77 | 1.190 | 144.3 | 0.844 | 1.628 | 231.6 | 555.1 | 0.254 | 3.002 | 5.50 | 0.419 | 40.2 | 10.8 | 3.1 | 0.487 |
| 4- 930 | 4-1550 | 1.087 | 278.7 | -16.5 | 11.62 | 1.193 | 148.0 | 0.874 | 1.647 | 226.1 | 554.3 | 0.207 | 3.088 | 6.21 | 0.424 | 35.3 | 15.7 | 2.9 | 0.518 |
| 4- 930 | 4-1570 | 1.154 | 281.3 | -16.9 | 12.72 | 1.196 | 151.9 | 0.903 | 1.668 | 220.4 | 553.1 | 0.161 | 3.174 | 7.16 | 0.429 | 30.4 | 20.8 | 2.8 | 0.551 |
| 4- 930 | 4-1590 | 1.224 | 284.0 | -17.2 | 14.21 | 1.199 | 156.1 | 0.930 | 1.689 | 214.3 | 551.7 | 0.118 | 3.259 | 8.52 | 0.435 | 25.4 | 26.2 | 2.7 | 0.584 |
| 4- 930 | 4-1610 | 1.296 | 286.9 | -17.5 | 16.40 | 1.203 | 160.5 | 0.953 | 1.710 | 208.0 | 549.9 | 0.080 | 3.341 | 10.57 | 0.442 | 20.4 | 31.8 | 2.6 | 0.619 |
| 4- 940 | 4-1120 | 0.743 | 260.3 | -20.8 | 1.60 | 1.324 | 124.1 | 0.820 | 3.555 | 282.8 | 484.8 | 0.639 | --- | 5.63 | 0.796 | 141.7 | 16.1 | 4.4 | 0.629 |
| 4- 940 | 4-1140 | 0.669 | 260.7 | -18.4 | 2.90 | 1.275 | 121.6 | 0.731 | 2.456 | 282.8 | 491.0 | 0.660 | --- | 4.45 | 0.709 | 136.7 | 18.0 | 4.1 | 0.523 |
| 4- 940 | 4-1160 | 0.615 | 261.0 | -16.6 | 3.75 | 1.241 | 119.5 | 0.667 | 2.033 | 282.8 | 497.2 | 0.677 | --- | 3.72 | 0.642 | 131.6 | 19.0 | 4.1 | 0.439 |
| 4- 940 | 4-1180 | 0.576 | 261.2 | -15.0 | 4.36 | 1.218 | 118.0 | 0.621 | 1.819 | 282.8 | 503.3 | 0.690 | --- | 3.24 | 0.590 | 126.4 | 19.1 | 4.1 | 0.372 |
| 4- 940 | 4-1200 | 0.550 | 261.5 | -13.8 | 4.82 | 1.201 | 116.9 | 0.588 | 1.697 | 282.6 | 509.2 | 0.699 | --- | 2.90 | 0.549 | 121.3 | 18.0 | 4.3 | 0.318 |
| 4- 940 | 4-1220 | 0.533 | 261.9 | -12.8 | 5.20 | 1.190 | 116.2 | 0.566 | 1.622 | 282.4 | 514.9 | 0.704 | --- | 2.65 | 0.518 | 116.2 | 15.7 | 4.5 | 0.277 |
| 4- 940 | 4-1240 | 0.524 | 262.3 | -12.0 | 5.52 | 1.183 | 115.9 | 0.552 | 1.576 | 281.9 | 520.2 | 0.706 | --- | 2.47 | 0.492 | 111.2 | 12.1 | 4.6 | 0.247 |
| 4- 940 | 4-1260 | 0.521 | 262.8 | -11.4 | 5.79 | 1.178 | 115.8 | 0.545 | 1.547 | 281.1 | 525.2 | 0.704 | --- | 2.34 | 0.473 | 106.4 | 7.6 | 4.7 | 0.227 |
| 4- 940 | 4-1280 | 0.525 | 263.4 | -11.1 | 6.04 | 1.174 | 116.1 | 0.544 | 1.530 | 280.1 | 529.9 | 0.698 | --- | 2.24 | 0.457 | 101.6 | 2.7 | 4.6 | 0.216 |
| 4- 940 | 4-1300 | 0.533 | 264.1 | -10.9 | 6.26 | 1.173 | 116.5 | 0.547 | 1.522 | 278.8 | 534.1 | 0.689 | --- | 2.18 | 0.445 | 97.0 | 358.0 | 4.5 | 0.214 |
| 4- 940 | 4-1320 | 0.545 | 265.0 | -10.9 | 6.47 | 1.172 | 117.2 | 0.555 | 1.519 | 277.2 | 538.0 | 0.677 | --- | 2.13 | 0.435 | 92.5 | 354.3 | 4.2 | 0.218 |
| 4- 940 | 4-1340 | 0.562 | 266.0 | -11.0 | 6.68 | 1.173 | 118.2 | 0.565 | 1.521 | 275.2 | 541.4 | 0.681 | 2.380 | 2.11 | 0.428 | 88.2 | 351.7 | 4.0 | 0.228 |
| 4- 940 | 4-1360 | 0.583 | 267.1 | -11.3 | 6.87 | 1.174 | 119.3 | 0.579 | 1.526 | 273.0 | 544.5 | 0.642 | 2.409 | 2.11 | 0.422 | 83.9 | 350.3 | 3.7 | 0.241 |
| 4- 940 | 4-1380 | 0.607 | 268.3 | -11.6 | 7.06 | 1.175 | 120.6 | 0.595 | 1.533 | 270.6 | 547.2 | 0.620 | 2.446 | 2.12 | 0.418 | 79.6 | 350.0 | 3.4 | 0.257 |
| 4- 940 | 4-1400 | 0.635 | 269.6 | -12.0 | 7.25 | 1.177 | 122.2 | 0.614 | 1.543 | 267.8 | 549.6 | 0.595 | 2.490 | 2.15 | 0.416 | 75.5 | 350.8 | 3.1 | 0.276 |
| 4- 940 | 4-1420 | 0.666 | 271.1 | -12.5 | 7.45 | 1.179 | 123.9 | 0.635 | 1.554 | 264.8 | 551.6 | 0.587 | 2.541 | 2.20 | 0.414 | 71.3 | 352.3 | 2.9 | 0.295 |
| 4- 940 | 4-1440 | 0.701 | 272.7 | -12.9 | 7.66 | 1.181 | 125.8 | 0.658 | 1.566 | 261.5 | 553.3 | 0.535 | 2.598 | 2.27 | 0.414 | 67.2 | 354.4 | 2.7 | 0.317 |
| 4- 940 | 4-1460 | 0.740 | 274.3 | -13.4 | 7.88 | 1.183 | 127.9 | 0.683 | 1.580 | 257.9 | 554.6 | 0.501 | 2.659 | 2.36 | 0.414 | 63.1 | 357.2 | 2.6 | 0.339 |
| 4- 940 | 4-1480 | 0.782 | 276.1 | -13.9 | 8.11 | 1.186 | 130.3 | 0.709 | 1.595 | 254.1 | 555.6 | 0.463 | 2.726 | 2.47 | 0.416 | 58.9 | 0.4 | 2.4 | 0.362 |
| 4- 940 | 4-1500 | 0.828 | 278.1 | -14.4 | 8.37 | 1.188 | 132.8 | 0.737 | 1.610 | 250.0 | 556.3 | 0.423 | 2.798 | 2.61 | 0.418 | 54.7 | 4.0 | 2.3 | 0.387 |
| 4- 940 | 4-1520 | 0.877 | 280.1 | -14.9 | 8.65 | 1.191 | 135.6 | 0.766 | 1.627 | 245.6 | 556.6 | 0.380 | 2.873 | 2.79 | 0.421 | 50.5 | 7.9 | 2.2 | 0.413 |
| 4- 940 | 4-1540 | 0.930 | 282.3 | -15.3 | 8.98 | 1.194 | 138.6 | 0.796 | 1.644 | 240.9 | 556.7 | 0.336 | 2.952 | 3.02 | 0.424 | 46.2 | 12.2 | 2.1 | 0.440 |
| 4- 940 | 4-1560 | 0.987 | 284.6 | -15.7 | 9.37 | 1.196 | 141.9 | 0.826 | 1.662 | 235.9 | 556.3 | 0.289 | 3.034 | 3.31 | 0.428 | 41.8 | 16.7 | 2.0 | 0.468 |
| 4- 940 | 4-1580 | 1.048 | 287.0 | -16.1 | 9.83 | 1.199 | 145.4 | 0.856 | 1.680 | 230.6 | 555.7 | 0.242 | 3.119 | 3.68 | 0.433 | 37.3 | 21.5 | 1.9 | 0.498 |
| 4- 940 | 4-1600 | 1.112 | 289.5 | -16.4 | 10.42 | 1.202 | 149.1 | 0.885 | 1.699 | 225.0 | 554.7 | 0.195 | 3.204 | 4.17 | 0.439 | 32.7 | 26.6 | 1.9 | 0.529 |
| 4- 940 | 4-1620 | 1.179 | 292.2 | -16.7 | 11.19 | 1.205 | 153.2 | 0.913 | 1.719 | 219.1 | 553.3 | 0.150 | 3.289 | 4.85 | 0.445 | 28.0 | 31.9 | 1.8 | 0.562 |
| 4- 940 | 4-1640 | 1.249 | 295.0 | -16.9 | 12.26 | 1.208 | 157.4 | 0.938 | 1.740 | 212.8 | 551.6 | 0.107 | 3.373 | 5.83 | 0.451 | 23.2 | 37.4 | 1.7 | 0.595 |
| 4- 940 | 4-1660 | 1.321 | 297.9 | -17.0 | 13.88 | 1.210 | 161.9 | 0.960 | 1.762 | 206.3 | 549.7 | 0.070 | 3.454 | 7.37 | 0.458 | 18.3 | 43.1 | 1.7 | 0.630 |
| 4- 950 | 4-1130 | 0.716 | 268.6 | -17.4 | 3.82 | 1.329 | 122.1 | 0.820 | 3.734 | 287.5 | 482.5 | 0.674 | --- | 3.37 | 0.803 | 141.0 | 20.5 | 2.7 | 0.620 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 950 | 4-1150 | 0.645 | 268.8 | -15.1 | 4.84 | 1.281 | 119.6 | 0.727 | 2.544 | 287.8 | 488.8 | 0.695 | --- | 2.40 | 0.717 | 136.1 | 22.4 | 2.3 | 0.516 |
| 4- 950 | 4-1170 | 0.592 | 269.0 | -13.3 | 5.40 | 1.248 | 117.6 | 0.660 | 2.094 | 287.7 | 495.1 | 0.711 | --- | 1.89 | 0.651 | 131.2 | 23.6 | 2.1 | 0.433 |
| 4- 950 | 4-1190 | 0.554 | 269.1 | -12.0 | 5.76 | 1.224 | 116.1 | 0.612 | 1.867 | 287.8 | 501.3 | 0.724 | --- | 1.58 | 0.599 | 126.2 | 23.8 | 2.1 | 0.366 |
| 4- 950 | 4-1210 | 0.528 | 269.3 | -10.9 | 6.02 | 1.208 | 115.1 | 0.578 | 1.738 | 287.8 | 507.3 | 0.733 | --- | 1.37 | 0.559 | 121.3 | 23.0 | 2.1 | 0.313 |
| 4- 950 | 4-1230 | 0.510 | 269.5 | -10.1 | 6.22 | 1.196 | 114.3 | 0.555 | 1.659 | 287.7 | 513.0 | 0.739 | --- | 1.22 | 0.527 | 116.5 | 20.9 | 2.1 | 0.271 |
| 4- 950 | 4-1250 | 0.500 | 269.8 | -9.5 | 6.38 | 1.189 | 113.9 | 0.540 | 1.610 | 287.3 | 518.4 | 0.741 | --- | 1.12 | 0.502 | 111.7 | 17.7 | 2.2 | 0.240 |
| 4- 950 | 4-1270 | 0.496 | 270.2 | -9.1 | 6.51 | 1.183 | 113.8 | 0.531 | 1.579 | 286.6 | 523.5 | 0.740 | --- | 1.04 | 0.482 | 107.1 | 13.4 | 2.2 | 0.219 |
| 4- 950 | 4-1290 | 0.497 | 270.7 | -9.0 | 6.63 | 1.180 | 114.0 | 0.529 | 1.560 | 285.7 | 528.2 | 0.736 | --- | 0.98 | 0.466 | 102.6 | 8.6 | 2.2 | 0.207 |
| 4- 950 | 4-1310 | 0.503 | 271.4 | -9.0 | 6.73 | 1.178 | 114.4 | 0.530 | 1.550 | 284.6 | 532.5 | 0.728 | --- | 0.94 | 0.454 | 98.3 | 3.9 | 2.1 | 0.203 |
| 4- 950 | 4-1330 | 0.513 | 272.2 | -9.1 | 6.82 | 1.178 | 115.0 | 0.536 | 1.546 | 283.1 | 538.5 | 0.718 | --- | 0.91 | 0.444 | 94.1 | 359.8 | 2.0 | 0.205 |
| 4- 950 | 4-1350 | 0.527 | 273.1 | -9.4 | 6.91 | 1.178 | 115.7 | 0.544 | 1.547 | 281.3 | 540.0 | 0.705 | 2.389 | 0.89 | 0.437 | 90.0 | 356.9 | 1.8 | 0.212 |
| 4- 950 | 4-1370 | 0.545 | 274.1 | -9.8 | 6.99 | 1.179 | 116.7 | 0.556 | 1.551 | 279.3 | 543.3 | 0.889 | 2.413 | 0.87 | 0.431 | 85.9 | 355.1 | 1.7 | 0.223 |
| 4- 950 | 4-1390 | 0.565 | 275.3 | -10.2 | 7.07 | 1.180 | 117.9 | 0.570 | 1.558 | 277.0 | 546.1 | 0.670 | 2.445 | 0.87 | 0.427 | 82.0 | 354.5 | 1.6 | 0.237 |
| 4- 950 | 4-1410 | 0.589 | 276.6 | -10.7 | 7.14 | 1.181 | 119.2 | 0.586 | 1.566 | 274.5 | 548.7 | 0.648 | 2.485 | 0.87 | 0.424 | 78.1 | 354.8 | 1.4 | 0.253 |
| 4- 950 | 4-1430 | 0.616 | 277.9 | -11.2 | 7.22 | 1.183 | 120.7 | 0.604 | 1.577 | 271.7 | 550.9 | 0.624 | 2.530 | 0.88 | 0.422 | 74.3 | 355.9 | 1.3 | 0.270 |
| 4- 950 | 4-1450 | 0.646 | 279.4 | -11.8 | 7.30 | 1.185 | 122.4 | 0.625 | 1.589 | 268.6 | 552.8 | 0.596 | 2.581 | 0.90 | 0.421 | 70.5 | 357.8 | 1.2 | 0.289 |
| 4- 950 | 4-1470 | 0.679 | 281.0 | -12.3 | 7.38 | 1.187 | 124.2 | 0.647 | 1.601 | 265.4 | 554.4 | 0.566 | 2.637 | 0.92 | 0.421 | 66.7 | 0.2 | 1.2 | 0.308 |
| 4- 950 | 4-1490 | 0.716 | 282.7 | -12.9 | 7.46 | 1.189 | 126.3 | 0.670 | 1.615 | 261.8 | 555.7 | 0.533 | 2.698 | 0.95 | 0.422 | 62.9 | 3.0 | 1.1 | 0.329 |
| 4- 950 | 4-1510 | 0.756 | 284.5 | -13.4 | 7.55 | 1.192 | 128.5 | 0.695 | 1.630 | 258.1 | 556.7 | 0.497 | 2.763 | 0.99 | 0.424 | 59.1 | 6.3 | 1.0 | 0.351 |
| 4- 950 | 4-1530 | 0.799 | 286.4 | -13.9 | 7.65 | 1.194 | 130.9 | 0.722 | 1.645 | 254.0 | 557.4 | 0.458 | 2.832 | 1.04 | 0.427 | 55.3 | 9.9 | 1.0 | 0.374 |
| 4- 950 | 4-1550 | 0.845 | 288.5 | -14.3 | 7.76 | 1.197 | 133.5 | 0.749 | 1.661 | 249.7 | 557.8 | 0.416 | 2.906 | 1.10 | 0.430 | 51.4 | 13.9 | 0.9 | 0.398 |
| 4- 950 | 4-1570 | 0.896 | 290.6 | -14.7 | 7.88 | 1.199 | 136.4 | 0.778 | 1.678 | 245.2 | 557.9 | 0.372 | 2.983 | 1.18 | 0.434 | 47.4 | 18.1 | 0.9 | 0.423 |
| 4- 950 | 4-1590 | 0.949 | 292.8 | -15.1 | 8.02 | 1.202 | 139.4 | 0.807 | 1.695 | 240.3 | 557.7 | 0.327 | 3.063 | 1.28 | 0.438 | 43.3 | 22.6 | 0.9 | 0.450 |
| 4- 950 | 4-1610 | 1.007 | 295.2 | -15.4 | 8.19 | 1.204 | 142.7 | 0.837 | 1.713 | 235.2 | 557.1 | 0.280 | 3.145 | 1.41 | 0.443 | 39.1 | 27.3 | 0.8 | 0.478 |
| 4- 950 | 4-1630 | 1.068 | 297.7 | -15.7 | 8.39 | 1.207 | 146.3 | 0.866 | 1.731 | 229.7 | 556.2 | 0.232 | 3.230 | 1.58 | 0.448 | 34.9 | 32.3 | 0.8 | 0.508 |
| 4- 950 | 4-1650 | 1.133 | 300.3 | -15.8 | 8.65 | 1.209 | 150.1 | 0.894 | 1.750 | 224.0 | 555.0 | 0.185 | 3.315 | 1.80 | 0.455 | 30.4 | 37.5 | 0.8 | 0.540 |
| 4- 950 | 4-1670 | 1.201 | 303.1 | -15.9 | 9.00 | 1.212 | 154.2 | 0.921 | 1.770 | 217.9 | 553.5 | 0.140 | 3.400 | 2.11 | 0.461 | 25.9 | 42.9 | 0.7 | 0.573 |
| 4- 950 | 4-1690 | 1.272 | 305.9 | -16.0 | 9.49 | 1.215 | 158.6 | 0.945 | 1.790 | 211.4 | 551.6 | 0.098 | 3.483 | 2.57 | 0.468 | 21.2 | 48.6 | 0.7 | 0.607 |
| 4- 950 | 4-1710 | 1.345 | 308.9 | -15.9 | 10.27 | 1.217 | 163.2 | 0.966 | 1.811 | 204.6 | 549.4 | 0.061 | 3.562 | 3.31 | 0.476 | 16.4 | 54.4 | 0.7 | 0.643 |
| 4- 960 | 4-1140 | 0.707 | 276.9 | -6.9 | 9.93 | 1.333 | 120.0 | 0.818 | 3.891 | 292.4 | 480.4 | 0.709 | --- | -2.84 | 0.808 | 140.3 | 24.7 | -2.4 | 0.610 |
| 4- 960 | 4-1160 | 0.630 | 276.8 | -7.4 | 8.68 | 1.286 | 117.6 | 0.722 | 2.624 | 292.6 | 486.8 | 0.729 | --- | -1.61 | 0.723 | 135.5 | 26.7 | -1.6 | 0.508 |
| 4- 960 | 4-1180 | 0.576 | 276.7 | -7.1 | 8.18 | 1.253 | 115.7 | 0.653 | 2.150 | 292.8 | 493.1 | 0.746 | --- | -1.13 | 0.658 | 130.7 | 27.9 | -1.3 | 0.427 |
| 4- 960 | 4-1200 | 0.537 | 276.7 | -6.6 | 7.92 | 1.229 | 114.2 | 0.604 | 1.913 | 293.0 | 499.4 | 0.758 | --- | -0.89 | 0.607 | 126.0 | 28.3 | -1.2 | 0.361 |
| 4- 960 | 4-1220 | 0.509 | 276.7 | -6.1 | 7.74 | 1.213 | 113.1 | 0.568 | 1.777 | 293.2 | 505.4 | 0.767 | --- | -0.74 | 0.587 | 121.2 | 27.7 | -1.2 | 0.308 |
| 4- 960 | 4-1240 | 0.490 | 276.7 | -5.8 | 7.62 | 1.202 | 112.4 | 0.544 | 1.695 | 293.1 | 511.2 | 0.773 | --- | -0.64 | 0.536 | 116.6 | 25.9 | -1.1 | 0.266 |
| 4- 960 | 4-1260 | 0.478 | 276.9 | -5.6 | 7.53 | 1.194 | 112.0 | 0.528 | 1.642 | 292.8 | 516.7 | 0.775 | --- | -0.57 | 0.511 | 112.1 | 22.9 | -1.1 | 0.235 |
| 4- 960 | 4-1280 | 0.473 | 277.3 | -5.6 | 7.46 | 1.189 | 111.8 | 0.518 | 1.609 | 292.3 | 521.8 | 0.775 | --- | -0.52 | 0.491 | 107.7 | 18.8 | -1.1 | 0.213 |
| 4- 960 | 4-1300 | 0.472 | 277.7 | -5.8 | 7.40 | 1.185 | 111.9 | 0.514 | 1.589 | 291.5 | 526.6 | 0.772 | --- | -0.48 | 0.475 | 103.4 | 14.2 | -1.1 | 0.199 |
| 4- 960 | 4-1320 | 0.476 | 278.3 | -6.1 | 7.34 | 1.183 | 112.2 | 0.515 | 1.578 | 290.4 | 531.0 | 0.766 | --- | -0.45 | 0.463 | 99.3 | 9.5 | -1.1 | 0.193 |
| 4- 960 | 4-1340 | 0.483 | 279.0 | -6.5 | 7.30 | 1.182 | 112.7 | 0.519 | 1.573 | 289.1 | 535.0 | 0.757 | --- | -0.43 | 0.453 | 95.3 | 5.3 | -1.0 | 0.193 |
| 4- 960 | 4-1360 | 0.494 | 279.9 | -7.0 | 7.25 | 1.182 | 113.4 | 0.525 | 1.573 | 287.5 | 538.7 | 0.746 | --- | -0.42 | 0.445 | 91.4 | 2.1 | -0.9 | 0.198 |
| 4- 960 | 4-1380 | 0.509 | 280.9 | -7.6 | 7.22 | 1.183 | 114.3 | 0.535 | 1.576 | 285.6 | 542.0 | 0.733 | 2.419 | -0.40 | 0.439 | 87.7 | 359.9 | -0.9 | 0.207 |
| 4- 960 | 4-1400 | 0.526 | 282.0 | -8.2 | 7.18 | 1.184 | 115.3 | 0.547 | 1.582 | 283.5 | 545.0 | 0.717 | 2.447 | -0.40 | 0.435 | 84.0 | 358.9 | -0.8 | 0.219 |
| 4- 960 | 4-1420 | 0.546 | 283.2 | -8.8 | 7.14 | 1.185 | 116.4 | 0.561 | 1.590 | 281.1 | 547.7 | 0.698 | 2.482 | -0.39 | 0.431 | 80.4 | 358.9 | -0.7 | 0.233 |
| 4- 960 | 4-1440 | 0.569 | 284.6 | -9.5 | 7.11 | 1.187 | 117.7 | 0.577 | 1.600 | 278.5 | 550.1 | 0.677 | 2.523 | -0.39 | 0.429 | 76.8 | 359.7 | -0.7 | 0.248 |
| 4- 960 | 4-1460 | 0.595 | 286.0 | -10.1 | 7.08 | 1.189 | 119.2 | 0.595 | 1.611 | 275.7 | 552.2 | 0.653 | 2.568 | -0.40 | 0.428 | 73.3 | 1.2 | -0.6 | 0.265 |
| 4- 960 | 4-1480 | 0.624 | 287.5 | -10.8 | 7.04 | 1.191 | 120.8 | 0.614 | 1.623 | 272.7 | 554.0 | 0.627 | 2.619 | -0.40 | 0.428 | 69.8 | 3.3 | -0.6 | 0.282 |
| 4- 960 | 4-1500 | 0.656 | 289.2 | -11.4 | 7.01 | 1.193 | 122.6 | 0.635 | 1.636 | 269.4 | 555.5 | 0.598 | 2.674 | -0.41 | 0.429 | 66.4 | 5.9 | -0.5 | 0.301 |
| 4- 960 | 4-1520 | 0.690 | 290.9 | -12.0 | 6.97 | 1.195 | 124.5 | 0.657 | 1.650 | 265.9 | 556.8 | 0.566 | 2.734 | -0.42 | 0.431 | 62.9 | 8.9 | -0.5 | 0.320 |
| 4- 960 | 4-1540 | 0.728 | 292.7 | -12.5 | 6.93 | 1.197 | 126.6 | 0.681 | 1.664 | 262.2 | 557.8 | 0.531 | 2.797 | -0.44 | 0.433 | 59.4 | 12.2 | -0.5 | 0.340 |
| 4- 960 | 4-1560 | 0.768 | 294.6 | -13.0 | 6.89 | 1.199 | 128.9 | 0.706 | 1.679 | 258.3 | 558.6 | 0.494 | 2.864 | -0.46 | 0.436 | 55.8 | 15.9 | -0.5 | 0.362 |
| 4- 960 | 4-1580 | 0.812 | 296.7 | -13.5 | 6.85 | 1.202 | 131.4 | 0.732 | 1.695 | 254.1 | 559.0 | 0.454 | 2.935 | -0.48 | 0.439 | 52.2 | 19.8 | -0.4 | 0.384 |
| 4- 960 | 4-1600 | 0.860 | 298.8 | -13.8 | 6.80 | 1.204 | 134.1 | 0.760 | 1.711 | 249.7 | 559.2 | 0.411 | 3.010 | -0.51 | 0.443 | 48.6 | 24.0 | -0.4 | 0.408 |
| 4- 960 | 4-1620 | 0.910 | 301.0 | -14.2 | 6.74 | 1.206 | 137.0 | 0.788 | 1.727 | 244.9 | 559.1 | 0.367 | 3.088 | -0.55 | 0.448 | 44.8 | 28.5 | -0.4 | 0.433 |
| 4- 960 | 4-1640 | 0.965 | 303.3 | -14.4 | 6.67 | 1.209 | 140.1 | 0.817 | 1.744 | 239.9 | 558.6 | 0.320 | 3.169 | -0.60 | 0.453 | 40.9 | 33.1 | -0.4 | 0.460 |
| 4- 960 | 4-1660 | 1.023 | 305.8 | -14.6 | 6.59 | 1.211 | 143.5 | 0.846 | 1.762 | 234.6 | 557.9 | 0.272 | 3.252 | -0.66 | 0.459 | 36.9 | 38.0 | -0.4 | 0.489 |
| 4- 960 | 4-1680 | 1.086 | 308.4 | -14.7 | 6.50 | 1.213 | 147.1 | 0.874 | 1.780 | 229.0 | 556.8 | 0.224 | 3.337 | -0.74 | 0.465 | 32.8 | 43.2 | -0.4 | 0.519 |
| 4- 960 | 4-1700 | 1.151 | 311.0 | -14.7 | 6.37 | 1.216 | 151.0 | 0.902 | 1.799 | 223.0 | 555.4 | 0.176 | 3.422 | -0.85 | 0.472 | 28.5 | 48.5 | -0.3 | 0.551 |
| 4- 960 | 4-1720 | 1.221 | 313.9 | -14.7 | 6.20 | 1.218 | 155.2 | 0.928 | 1.818 | 216.7 | 553.7 | 0.130 | 3.506 | -1.00 | 0.479 | 24.1 | 54.1 | -0.3 | 0.585 |
| 4- 970 | 4-1170 | 0.689 | 286.4 | 12.6 | 19.85 | 1.289 | 115.5 | 0.716 | 2.691 | 297.6 | 484.9 | 0.763 | --- | -13.01 | 0.728 | 134.9 | 29.4 | -13.0 | 0.517 |
| 4- 970 | 4-1190 | 0.587 | 284.5 | 5.5 | 13.90 | 1.256 | 113.6 | 0.646 | 2.200 | 298.0 | 491.3 | 0.779 | --- | -7.15 | 0.663 | 130.2 | 31.6 | -8.5 | 0.426 |
| 4- 970 | 4-1210 | 0.534 | 283.9 | 2.9 | 11.65 | 1.233 | 112.2 | 0.595 | 1.954 | 298.4 | 497.7 | 0.791 | --- | -4.98 | 0.613 | 125.6 | 32.3 | -6.9 | 0.358 |
| 4- 970 | 4-1230 | 0.499 | 283.6 | 1.6 | 10.44 | 1.217 | 111.2 | 0.559 | 1.814 | 298.6 | 503.8 | 0.800 | --- | -3.87 | 0.574 | 121.0 | 31.9 | -6.2 | 0.305 |
| 4- 970 | 4-1250 | 0.476 | 283.5 | 0.8 | 9.68 | 1.206 | 110.4 | 0.534 | 1.728 | 298.7 | 509.6 | 0.806 | --- | -3.20 | 0.543 | 116.6 | 30.4 | -5.9 | 0.263 |
| 4- 970 | 4-1270 | 0.461 | 283.5 | 0.1 | 9.15 | 1.198 | 110.0 | 0.517 | 1.673 | 298.5 | 515.2 | 0.809 | --- | -2.75 | 0.518 | 112.2 | 27.7 | -5.7 | 0.231 |
| 4- 970 | 4-1290 | 0.453 | 283.7 | -0.6 | 8.75 | 1.193 | 109.8 | 0.506 | 1.639 | 298.1 | 520.4 | 0.809 | --- | -2.45 | 0.498 | 108.0 | 23.9 | -5.6 | 0.208 |
| 4- 970 | 4-1310 | 0.450 | 284.1 | -1.3 | 8.43 | 1.189 | 109.9 | 0.501 | 1.617 | 297.4 | 525.2 | 0.807 | --- | -2.22 | 0.483 | 104.0 | 19.4 | -5.4 | 0.193 |
| 4- 970 | 4-1330 | 0.451 | 284.7 | -2.1 | 8.17 | 1.187 | 110.1 | 0.500 | 1.605 | 296.5 | 529.6 | 0.802 | --- | -2.05 | 0.470 | 100.1 | 14.8 | -5.1 | 0.186 |
| 4- 970 | 4-1350 | 0.456 | 285.4 | -2.9 | 7.95 | 1.186 | 110.5 | 0.503 | 1.599 | 295.2 | 533.7 | 0.795 | --- | -1.93 | 0.460 | 96.3 | 10.5 | -4.8 | 0.184 |
| 4- 970 | 4-1370 | 0.464 | 286.2 | -3.7 | 7.75 | 1.186 | 111.1 | 0.508 | 1.598 | 293.7 | 537.5 | 0.786 | --- | -1.83 | 0.453 | 92.6 | 7.1 | -4.4 | 0.188 |
| 4- 970 | 4-1390 | 0.475 | 287.2 | -4.6 | 7.58 | 1.187 | 111.9 | 0.516 | 1.601 | 292.0 | 540.9 | 0.774 | 2.427 | -1.76 | 0.446 | 89.1 | 4.7 | -4.0 | 0.195 |
| 4- 970 | 4-1410 | 0.490 | 288.3 | -5.5 | 7.41 | 1.188 | 112.7 | 0.526 | 1.606 | 290.0 | 544.0 | 0.761 | 2.452 | -1.71 | 0.442 | 85.6 | 3.4 | -3.7 | 0.205 |
| 4- 970 | 4-1430 | 0.507 | 289.5 | -6.3 | 7.26 | 1.189 | 113.8 | 0.538 | 1.613 | 287.8 | 546.8 | 0.745 | 2.482 | -1.67 | 0.439 | 82.2 | 3.0 | -3.4 | 0.216 |
| 4- 970 | 4-1450 | 0.526 | 290.9 | -7.2 | 7.12 | 1.190 | 114.9 | 0.552 | 1.623 | 285.4 | 549.3 | 0.727 | 2.519 | -1.65 | 0.437 | 78.9 | 3.5 | -3.1 | 0.230 |
| 4- 970 | 4-1470 | 0.548 | 292.3 | -8.0 | 6.97 | 1.192 | 116.2 | 0.568 | 1.633 | 282.7 | 551.5 | 0.706 | 2.560 | -1.64 | 0.435 | 75.7 | 4.8 | -2.8 | 0.244 |
| 4- 970 | 4-1490 | 0.573 | 293.8 | -8.8 | 6.84 | 1.194 | 117.6 | 0.585 | 1.644 | 279.9 | 553.5 | 0.683 | 2.606 | -1.65 | 0.435 | 72.4 | 6.6 | -2.6 | 0.260 |
| 4- 970 | 4-1510 | 0.600 | 295.4 | -9.5 | 6.70 | 1.196 | 119.2 | 0.603 | 1.657 | 276.9 | 555.3 | 0.658 | 2.658 | -1.66 | 0.436 | 69.2 | 8.9 | -2.5 | 0.276 |
| 4- 970 | 4-1530 | 0.630 | 297.1 | -10.2 | 6.56 | 1.198 | 120.9 | 0.623 | 1.670 | 273.6 | 556.8 | 0.630 | 2.709 | -1.69 | 0.437 | 66.0 | 11.7 | -2.3 | 0.293 |
| 4- 970 | 4-1550 | 0.663 | 298.9 | -10.8 | 6.41 | 1.200 | 122.7 | 0.644 | 1.684 | 270.2 | 558.0 | 0.600 | 2.767 | -1.73 | 0.439 | 62.8 | 14.8 | -2.2 | 0.311 |
| 4- 970 | 4-1570 | 0.698 | 300.7 | -11.4 | 6.26 | 1.202 | 124.7 | 0.666 | 1.698 | 266.5 | 559.0 | 0.567 | 2.829 | -1.78 | 0.442 | 59.6 | 18.2 | -2.1 | 0.330 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4- 970 | 4-1590 | 0.736 | 302.7 | -11.9 | 6.10 | 1.204 | 126.9 | 0.690 | 1.712 | 262.7 | 559.8 | 0.531 | 2.894 | -1.85 | 0.445 | 56.4 | 21.8 | -2.0 | 0.350 |
| 4- 970 | 4-1610 | 0.778 | 304.7 | -12.3 | 5.93 | 1.206 | 129.2 | 0.715 | 1.728 | 258.6 | 560.3 | 0.493 | 2.963 | -1.93 | 0.449 | 53.0 | 25.8 | -1.9 | 0.371 |
| 4- 970 | 4-1630 | 0.822 | 306.8 | -12.7 | 5.73 | 1.208 | 131.7 | 0.741 | 1.743 | 254.3 | 560.5 | 0.452 | 3.035 | -2.04 | 0.453 | 49.7 | 30.0 | -1.8 | 0.394 |
| 4- 970 | 4-1650 | 0.871 | 309.0 | -13.0 | 5.52 | 1.210 | 134.5 | 0.768 | 1.759 | 249.7 | 560.5 | 0.408 | 3.110 | -2.17 | 0.458 | 46.2 | 34.4 | -1.7 | 0.417 |
| 4- 970 | 4-1670 | 0.923 | 311.3 | -13.2 | 5.27 | 1.212 | 137.5 | 0.796 | 1.776 | 244.8 | 560.2 | 0.362 | 3.189 | -2.34 | 0.463 | 42.6 | 39.0 | -1.7 | 0.443 |
| 4- 970 | 4-1690 | 0.978 | 313.7 | -13.3 | 4.98 | 1.215 | 140.7 | 0.825 | 1.793 | 239.6 | 559.6 | 0.315 | 3.271 | -2.56 | 0.469 | 38.9 | 43.8 | -1.6 | 0.470 |
| 4- 970 | 4-1710 | 1.038 | 316.3 | -13.4 | 4.63 | 1.217 | 144.1 | 0.853 | 1.810 | 234.1 | 558.7 | 0.266 | 3.354 | -2.83 | 0.475 | 35.1 | 48.9 | -1.5 | 0.499 |
| 4- 970 | 4-1730 | 1.102 | 318.9 | -13.3 | 4.19 | 1.219 | 147.9 | 0.882 | 1.828 | 228.3 | 557.4 | 0.216 | 3.440 | -3.20 | 0.482 | 31.0 | 54.2 | -1.5 | 0.531 |
| 4- 980 | 4-1160 | 0.705 | 306.3 | -53.4 | -18.53 | 1.336 | 115.2 | 0.808 | 4.088 | 303.0 | 476.3 | 0.785 | --- | 25.23 | 0.812 | 138.5 | 28.1 | 20.9 | 0.643 |
| 4- 980 | 4-1200 | 0.771 | 297.7 | 32.5 | 31.36 | 1.259 | 111.7 | 0.638 | 2.241 | 303.0 | 489.8 | 0.810 | --- | -24.97 | 0.867 | 129.7 | 30.3 | -26.6 | 0.485 |
| 4- 980 | 4-1220 | 0.588 | 291.7 | 20.1 | 19.60 | 1.236 | 110.2 | 0.586 | 1.990 | 303.7 | 496.1 | 0.823 | --- | -13.36 | 0.818 | 125.2 | 34.7 | -18.2 | 0.373 |
| 4- 980 | 4-1240 | 0.517 | 290.2 | 14.2 | 15.26 | 1.220 | 109.2 | 0.549 | 1.846 | 304.2 | 502.3 | 0.832 | --- | -9.17 | 0.579 | 120.7 | 35.3 | -14.8 | 0.311 |
| 4- 980 | 4-1260 | 0.478 | 289.6 | 10.7 | 13.00 | 1.209 | 108.4 | 0.524 | 1.758 | 304.4 | 508.2 | 0.838 | --- | -7.05 | 0.549 | 116.4 | 34.2 | -13.1 | 0.265 |
| 4- 980 | 4-1280 | 0.455 | 289.4 | 8.4 | 11.59 | 1.201 | 108.0 | 0.506 | 1.702 | 304.4 | 513.8 | 0.841 | --- | -5.79 | 0.524 | 112.2 | 31.9 | -12.2 | 0.232 |
| 4- 980 | 4-1300 | 0.440 | 289.5 | 6.5 | 10.61 | 1.196 | 107.8 | 0.495 | 1.666 | 304.1 | 519.1 | 0.841 | --- | -4.96 | 0.505 | 108.2 | 28.5 | -11.5 | 0.207 |
| 4- 980 | 4-1320 | 0.433 | 289.8 | 4.9 | 9.88 | 1.193 | 107.8 | 0.489 | 1.644 | 303.5 | 523.9 | 0.840 | --- | -4.38 | 0.489 | 104.3 | 24.3 | -11.0 | 0.191 |
| 4- 980 | 4-1340 | 0.430 | 290.3 | 3.4 | 9.31 | 1.191 | 108.0 | 0.487 | 1.631 | 302.6 | 528.4 | 0.836 | --- | -3.96 | 0.477 | 100.6 | 19.7 | -10.3 | 0.181 |
| 4- 980 | 4-1360 | 0.431 | 291.0 | 1.9 | 8.84 | 1.190 | 108.4 | 0.489 | 1.624 | 301.5 | 532.6 | 0.830 | --- | -3.65 | 0.467 | 97.0 | 15.4 | -9.6 | 0.178 |
| 4- 980 | 4-1380 | 0.437 | 291.9 | 0.6 | 8.44 | 1.189 | 108.9 | 0.493 | 1.623 | 300.1 | 536.4 | 0.823 | --- | -3.42 | 0.459 | 93.5 | 11.9 | -8.8 | 0.180 |
| 4- 980 | 4-1400 | 0.445 | 292.9 | -0.7 | 8.10 | 1.190 | 109.5 | 0.499 | 1.625 | 298.5 | 539.8 | 0.813 | --- | -3.24 | 0.453 | 90.2 | 9.3 | -8.0 | 0.185 |
| 4- 980 | 4-1420 | 0.456 | 294.1 | -2.0 | 7.79 | 1.190 | 110.3 | 0.508 | 1.629 | 296.6 | 543.0 | 0.802 | 2.457 | -3.10 | 0.449 | 86.9 | 7.7 | -7.2 | 0.193 |
| 4- 980 | 4-1440 | 0.470 | 295.3 | -3.1 | 7.50 | 1.192 | 111.2 | 0.518 | 1.636 | 294.5 | 545.9 | 0.788 | 2.485 | -3.00 | 0.445 | 83.7 | 7.1 | -6.6 | 0.203 |
| 4- 980 | 4-1460 | 0.486 | 296.7 | -4.3 | 7.24 | 1.193 | 112.2 | 0.530 | 1.645 | 292.2 | 548.5 | 0.773 | 2.517 | -2.92 | 0.443 | 80.6 | 7.4 | -6.0 | 0.215 |
| 4- 980 | 4-1480 | 0.505 | 298.2 | -5.3 | 6.99 | 1.194 | 113.4 | 0.544 | 1.655 | 289.7 | 550.9 | 0.755 | 2.554 | -2.88 | 0.442 | 77.6 | 8.3 | -5.5 | 0.227 |
| 4- 980 | 4-1500 | 0.526 | 299.7 | -6.3 | 6.75 | 1.196 | 114.6 | 0.558 | 1.666 | 287.1 | 553.0 | 0.736 | 2.596 | -2.85 | 0.442 | 74.6 | 9.9 | -5.0 | 0.241 |
| 4- 980 | 4-1520 | 0.549 | 301.4 | -7.2 | 6.51 | 1.198 | 116.0 | 0.574 | 1.678 | 284.2 | 554.9 | 0.714 | 2.641 | -2.84 | 0.442 | 71.6 | 12.0 | -4.7 | 0.255 |
| 4- 980 | 4-1540 | 0.575 | 303.0 | -8.0 | 6.28 | 1.200 | 117.5 | 0.592 | 1.690 | 281.2 | 556.6 | 0.690 | 2.690 | -2.85 | 0.443 | 68.7 | 14.5 | -4.4 | 0.270 |
| 4- 980 | 4-1560 | 0.603 | 304.8 | -8.8 | 6.04 | 1.202 | 119.1 | 0.610 | 1.703 | 278.0 | 558.0 | 0.663 | 2.743 | -2.89 | 0.445 | 65.8 | 17.4 | -4.1 | 0.286 |
| 4- 980 | 4-1580 | 0.634 | 306.7 | -9.4 | 5.80 | 1.203 | 120.9 | 0.630 | 1.717 | 274.6 | 559.3 | 0.635 | 2.799 | -2.94 | 0.448 | 62.8 | 20.6 | -3.9 | 0.303 |
| 4- 980 | 4-1600 | 0.667 | 308.6 | -10.0 | 5.55 | 1.205 | 122.8 | 0.651 | 1.731 | 271.0 | 560.3 | 0.603 | 2.858 | -3.01 | 0.451 | 59.9 | 24.1 | -3.7 | 0.321 |
| 4- 980 | 4-1620 | 0.703 | 310.5 | -10.5 | 5.29 | 1.207 | 124.8 | 0.674 | 1.745 | 267.2 | 561.1 | 0.569 | 2.921 | -3.11 | 0.454 | 56.9 | 27.8 | -3.5 | 0.339 |
| 4- 980 | 4-1640 | 0.742 | 312.6 | -10.9 | 5.01 | 1.209 | 127.0 | 0.697 | 1.760 | 263.2 | 561.7 | 0.532 | 2.987 | -3.23 | 0.458 | 53.8 | 31.7 | -3.3 | 0.359 |
| 4- 980 | 4-1660 | 0.785 | 314.7 | -11.3 | 4.70 | 1.211 | 129.4 | 0.722 | 1.775 | 259.0 | 562.0 | 0.493 | 3.057 | -3.39 | 0.463 | 50.7 | 35.9 | -3.2 | 0.380 |
| 4- 980 | 4-1680 | 0.831 | 316.9 | -11.6 | 4.36 | 1.213 | 132.0 | 0.748 | 1.791 | 254.5 | 562.0 | 0.451 | 3.130 | -3.58 | 0.468 | 47.5 | 40.3 | -3.1 | 0.403 |
| 4- 980 | 4-1700 | 0.880 | 319.2 | -11.7 | 3.97 | 1.215 | 134.8 | 0.775 | 1.806 | 249.8 | 561.8 | 0.406 | 3.207 | -3.83 | 0.474 | 44.2 | 44.9 | -3.0 | 0.427 |
| 4- 980 | 4-1720 | 0.933 | 321.6 | -11.8 | 3.53 | 1.217 | 137.9 | 0.803 | 1.823 | 244.7 | 561.4 | 0.359 | 3.287 | -4.14 | 0.480 | 40.7 | 49.7 | -2.9 | 0.453 |
| 4- 980 | 4-1740 | 0.991 | 324.1 | -11.8 | 3.00 | 1.219 | 141.2 | 0.832 | 1.839 | 239.3 | 560.6 | 0.310 | 3.369 | -4.54 | 0.487 | 37.1 | 54.7 | -2.8 | 0.482 |
| 4- 990 | 4-1170 | 0.606 | 305.1 | -42.1 | -10.56 | 1.336 | 112.7 | 0.800 | 4.106 | 308.4 | 474.7 | 0.820 | --- | 16.96 | 0.811 | 137.5 | 34.4 | 15.5 | 0.599 |
| 4- 990 | 4-1190 | 0.673 | 330.2 | -61.6 | -23.36 | 1.291 | 110.5 | 0.698 | 2.775 | 309.4 | 481.4 | 0.838 | --- | 29.54 | 0.731 | 133.1 | 31.2 | 27.7 | 0.566 |
| 4- 990 | 4-1230 | 0.936 | 312.6 | 48.9 | 44.73 | 1.238 | 108.4 | 0.579 | 2.020 | 308.6 | 494.9 | 0.851 | --- | -38.96 | 0.621 | 124.7 | 26.3 | -38.2 | 0.519 |
| 4- 990 | 4-1250 | 0.633 | 298.8 | 34.6 | 25.97 | 1.222 | 107.2 | 0.540 | 1.874 | 309.7 | 501.1 | 0.861 | --- | -20.39 | 0.583 | 120.4 | 35.4 | -29.5 | 0.356 |
| 4- 990 | 4-1270 | 0.525 | 295.7 | 26.0 | 19.11 | 1.211 | 106.4 | 0.514 | 1.785 | 310.2 | 507.1 | 0.868 | --- | -13.73 | 0.553 | 116.2 | 36.6 | -24.4 | 0.285 |
| 4- 990 | 4-1290 | 0.473 | 294.8 | 20.4 | 15.61 | 1.204 | 106.0 | 0.496 | 1.728 | 310.3 | 512.7 | 0.871 | --- | -10.43 | 0.529 | 112.1 | 35.2 | -21.5 | 0.242 |
| 4- 990 | 4-1310 | 0.443 | 294.5 | 16.4 | 13.47 | 1.199 | 105.7 | 0.484 | 1.691 | 310.2 | 518.0 | 0.872 | --- | -8.49 | 0.510 | 108.3 | 32.3 | -19.6 | 0.213 |
| 4- 990 | 4-1330 | 0.426 | 294.7 | 13.3 | 12.01 | 1.195 | 105.7 | 0.478 | 1.668 | 309.7 | 522.9 | 0.871 | --- | -7.23 | 0.495 | 104.5 | 28.5 | -18.2 | 0.193 |
| 4- 990 | 4-1350 | 0.416 | 295.2 | 10.6 | 10.93 | 1.193 | 105.9 | 0.475 | 1.655 | 308.9 | 527.4 | 0.868 | --- | -6.38 | 0.483 | 101.0 | 24.2 | -16.8 | 0.181 |
| 4- 990 | 4-1370 | 0.413 | 295.9 | 8.3 | 10.09 | 1.192 | 106.2 | 0.476 | 1.648 | 307.9 | 531.6 | 0.864 | --- | -5.72 | 0.473 | 97.5 | 20.0 | -15.4 | 0.176 |
| 4- 990 | 4-1390 | 0.413 | 296.8 | 6.2 | 9.41 | 1.192 | 106.7 | 0.479 | 1.646 | 306.6 | 535.4 | 0.857 | --- | -5.25 | 0.465 | 94.2 | 16.4 | -14.0 | 0.175 |
| 4- 990 | 4-1410 | 0.418 | 297.9 | 4.2 | 8.83 | 1.192 | 107.2 | 0.484 | 1.647 | 305.1 | 538.9 | 0.849 | --- | -4.89 | 0.459 | 91.0 | 13.7 | -12.7 | 0.178 |
| 4- 990 | 4-1430 | 0.426 | 299.1 | 2.5 | 8.33 | 1.193 | 107.9 | 0.492 | 1.652 | 303.3 | 542.1 | 0.840 | 2.464 | -4.61 | 0.455 | 87.9 | 11.9 | -11.4 | 0.184 |
| 4- 990 | 4-1450 | 0.436 | 300.5 | 0.8 | 7.89 | 1.194 | 108.7 | 0.501 | 1.658 | 301.3 | 545.1 | 0.828 | 2.488 | -4.40 | 0.452 | 84.9 | 11.1 | -10.3 | 0.193 |
| 4- 990 | 4-1470 | 0.449 | 301.9 | -0.7 | 7.49 | 1.195 | 109.7 | 0.511 | 1.666 | 299.1 | 547.8 | 0.815 | 2.518 | -4.24 | 0.449 | 82.0 | 11.1 | -9.3 | 0.202 |
| 4- 990 | 4-1490 | 0.464 | 303.5 | -2.0 | 7.12 | 1.196 | 110.7 | 0.522 | 1.676 | 296.8 | 550.3 | 0.800 | 2.552 | -4.12 | 0.448 | 79.2 | 11.9 | -8.5 | 0.213 |
| 4- 990 | 4-1510 | 0.482 | 305.1 | -3.3 | 6.77 | 1.198 | 111.8 | 0.535 | 1.687 | 294.3 | 552.5 | 0.784 | 2.589 | -4.03 | 0.448 | 76.4 | 13.3 | -7.8 | 0.225 |
| 4- 990 | 4-1530 | 0.502 | 306.8 | -4.4 | 6.43 | 1.200 | 113.0 | 0.549 | 1.698 | 291.6 | 554.5 | 0.765 | 2.631 | -3.98 | 0.448 | 73.6 | 15.2 | -7.2 | 0.238 |
| 4- 990 | 4-1550 | 0.524 | 308.6 | -5.5 | 6.11 | 1.201 | 114.4 | 0.565 | 1.710 | 288.7 | 556.3 | 0.745 | 2.676 | -3.95 | 0.449 | 70.9 | 17.5 | -6.7 | 0.251 |
| 4- 990 | 4-1570 | 0.548 | 310.4 | -6.4 | 5.79 | 1.203 | 115.8 | 0.581 | 1.723 | 285.7 | 558.0 | 0.722 | 2.723 | -3.95 | 0.451 | 68.2 | 20.2 | -6.2 | 0.265 |
| 4- 990 | 4-1590 | 0.575 | 312.3 | -7.2 | 5.47 | 1.205 | 117.3 | 0.598 | 1.736 | 282.5 | 559.4 | 0.697 | 2.774 | -3.98 | 0.453 | 65.5 | 23.2 | -5.9 | 0.280 |
| 4- 990 | 4-1610 | 0.604 | 314.2 | -7.9 | 5.14 | 1.207 | 119.0 | 0.617 | 1.749 | 279.2 | 560.6 | 0.670 | 2.828 | -4.03 | 0.456 | 62.8 | 26.5 | -5.5 | 0.296 |
| 4- 990 | 4-1630 | 0.635 | 316.2 | -8.5 | 4.81 | 1.209 | 120.8 | 0.637 | 1.763 | 275.6 | 561.6 | 0.640 | 2.886 | -4.11 | 0.460 | 60.1 | 30.0 | -5.2 | 0.312 |
| 4- 990 | 4-1650 | 0.670 | 318.2 | -9.0 | 4.46 | 1.210 | 122.8 | 0.658 | 1.777 | 271.9 | 562.5 | 0.608 | 2.946 | -4.22 | 0.464 | 57.3 | 33.7 | -5.0 | 0.330 |
| 4- 990 | 4-1670 | 0.707 | 320.3 | -9.4 | 4.09 | 1.212 | 124.9 | 0.680 | 1.791 | 268.0 | 563.1 | 0.573 | 3.010 | -4.36 | 0.469 | 54.5 | 37.7 | -4.8 | 0.348 |
| 4- 990 | 4-1690 | 0.747 | 322.4 | -9.8 | 3.69 | 1.214 | 127.1 | 0.704 | 1.806 | 263.8 | 563.5 | 0.535 | 3.077 | -4.55 | 0.474 | 51.6 | 41.9 | -4.6 | 0.368 |
| 4- 990 | 4-1710 | 0.790 | 324.7 | -10.0 | 3.25 | 1.216 | 129.6 | 0.729 | 1.821 | 259.4 | 563.6 | 0.494 | 3.148 | -4.78 | 0.479 | 48.7 | 46.2 | -4.4 | 0.390 |
| 4- 990 | 4-1730 | 0.838 | 327.0 | -10.1 | 2.76 | 1.218 | 132.3 | 0.755 | 1.836 | 254.7 | 563.6 | 0.450 | 3.222 | -5.07 | 0.485 | 45.6 | 50.8 | -4.3 | 0.413 |
| 4- 990 | 4-1750 | 0.889 | 329.4 | -10.2 | 2.21 | 1.220 | 135.1 | 0.782 | 1.852 | 249.8 | 563.2 | 0.404 | 3.300 | -5.44 | 0.491 | 42.4 | 55.6 | -4.1 | 0.438 |
| 4-1000 | 4-1160 | 0.621 | 306.3 | -29.4 | -4.72 | 1.395 | 112.6 | 0.936 | 13.040 | 313.2 | 466.6 | 0.838 | --- | 11.03 | 0.910 | 140.7 | 37.2 | 9.3 | 0.682 |
| 4-1000 | 4-1180 | 0.552 | 309.7 | -37.6 | -8.04 | 1.333 | 110.1 | 0.790 | 4.063 | 314.0 | 473.3 | 0.855 | --- | 14.07 | 0.807 | 136.5 | 38.8 | 13.6 | 0.575 |
| 4-1000 | 4-1200 | 0.536 | 318.7 | -50.7 | -13.75 | 1.290 | 108.1 | 0.687 | 2.784 | 315.1 | 480.2 | 0.871 | --- | 19.52 | 0.729 | 132.2 | 38.8 | 20.9 | 0.506 |
| 4-1000 | 4-1220 | 0.646 | 354.2 | -65.2 | -25.84 | 1.260 | 106.3 | 0.614 | 2.291 | 316.4 | 486.9 | 0.885 | --- | 31.36 | 0.669 | 127.9 | 33.9 | 33.0 | 0.504 |
| 4-1000 | 4-1260 | 1.155 | 334.6 | 60.6 | 59.96 | 1.223 | 105.6 | 0.534 | 1.897 | 314.2 | 500.2 | 0.884 | --- | -54.95 | 0.585 | 120.1 | 20.1 | -43.1 | 0.607 |
| 4-1000 | 4-1280 | 0.718 | 306.3 | 48.2 | 33.30 | 1.213 | 104.5 | 0.505 | 1.808 | 315.8 | 506.2 | 0.894 | --- | -28.54 | 0.556 | 115.9 | 33.4 | -39.7 | 0.374 |
| 4-1000 | 4-1300 | 0.557 | 300.5 | 37.6 | 23.31 | 1.205 | 104.0 | 0.487 | 1.751 | 316.3 | 511.8 | 0.899 | --- | -18.79 | 0.533 | 111.9 | 36.1 | -34.3 | 0.283 |
| 4-1000 | 4-1320 | 0.481 | 298.9 | 30.2 | 18.34 | 1.200 | 103.7 | 0.475 | 1.714 | 316.4 | 517.1 | 0.900 | --- | -14.05 | 0.514 | 108.2 | 34.8 | -30.3 | 0.235 |
| 4-1000 | 4-1340 | 0.440 | 298.6 | 24.7 | 15.36 | 1.197 | 103.6 | 0.468 | 1.691 | 316.1 | 522.0 | 0.900 | --- | -11.32 | 0.499 | 104.6 | 31.8 | -27.4 | 0.206 |
| 4-1000 | 4-1360 | 0.416 | 299.0 | 20.2 | 13.36 | 1.195 | 103.8 | 0.464 | 1.677 | 315.4 | 526.6 | 0.898 | --- | -9.56 | 0.487 | 101.1 | 28.0 | -24.9 | 0.188 |
| 4-1000 | 4-1380 | 0.403 | 299.7 | 16.5 | 11.90 | 1.194 | 104.0 | 0.464 | 1.670 | 314.5 | 530.8 | 0.894 | --- | -8.34 | 0.478 | 97.8 | 24.1 | -22.6 | 0.179 |
| 4-1000 | 4-1400 | 0.397 | 300.7 | 13.3 | 10.78 | 1.193 | 104.4 | 0.467 | 1.667 | 313.2 | 534.6 | 0.889 | --- | -7.47 | 0.470 | 94.7 | 20.5 | -20.4 | 0.175 |
| 4-1000 | 4-1420 | 0.396 | 301.9 | 10.5 | 9.87 | 1.194 | 105.0 | 0.471 | 1.669 | 311.8 | 538.2 | 0.883 | --- | -6.81 | 0.465 | 91.6 | 17.8 | -18.3 | 0.176 |
| 4-1000 | 4-1440 | 0.399 | 303.3 | 8.0 | 9.12 | 1.194 | 105.6 | 0.477 | 1.673 | 310.1 | 541.4 | 0.875 | 2.471 | -6.32 | 0.460 | 88.7 | 15.9 | -16.4 | 0.180 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1000 | 4-1460 | 0.406 | 304.8 | 5.7 | 8.47 | 1.195 | 106.3 | 0.485 | 1.679 | 308.2 | 544.4 | 0.865 | 2.493 | -5.93 | 0.457 | 85.9 | 15.0 | -14.7 | 0.186 |
| 4-1000 | 4-1480 | 0.415 | 306.4 | 3.7 | 7.90 | 1.196 | 107.2 | 0.494 | 1.687 | 306.1 | 547.2 | 0.854 | 2.520 | -5.63 | 0.455 | 83.1 | 14.8 | -13.2 | 0.194 |
| 4-1000 | 4-1500 | 0.427 | 308.1 | 1.8 | 7.38 | 1.198 | 108.1 | 0.504 | 1.696 | 303.9 | 549.7 | 0.842 | 2.551 | -5.40 | 0.454 | 80.4 | 15.4 | -12.0 | 0.203 |
| 4-1000 | 4-1520 | 0.441 | 309.9 | 0.2 | 6.91 | 1.199 | 109.1 | 0.515 | 1.707 | 301.5 | 552.0 | 0.828 | 2.585 | -5.23 | 0.453 | 77.8 | 16.6 | -10.9 | 0.213 |
| 4-1000 | 4-1540 | 0.458 | 311.7 | -1.2 | 6.46 | 1.201 | 110.2 | 0.527 | 1.718 | 298.9 | 554.2 | 0.812 | 2.623 | -5.10 | 0.454 | 75.2 | 18.3 | -10.0 | 0.224 |
| 4-1000 | 4-1560 | 0.477 | 313.6 | -2.5 | 6.04 | 1.202 | 111.4 | 0.541 | 1.729 | 296.2 | 556.1 | 0.795 | 2.664 | -5.01 | 0.455 | 72.7 | 20.5 | -9.3 | 0.236 |
| 4-1000 | 4-1580 | 0.497 | 315.5 | -3.7 | 5.64 | 1.204 | 112.7 | 0.555 | 1.742 | 293.3 | 557.8 | 0.775 | 2.708 | -4.95 | 0.457 | 70.2 | 23.0 | -8.6 | 0.248 |
| 4-1000 | 4-1600 | 0.520 | 317.5 | -4.7 | 5.24 | 1.206 | 114.1 | 0.570 | 1.754 | 290.3 | 559.4 | 0.754 | 2.754 | -4.93 | 0.459 | 67.7 | 25.9 | -8.0 | 0.261 |
| 4-1000 | 4-1620 | 0.546 | 319.5 | -5.5 | 4.84 | 1.208 | 115.5 | 0.587 | 1.767 | 287.1 | 560.8 | 0.731 | 2.804 | -4.94 | 0.462 | 65.2 | 29.0 | -7.6 | 0.275 |
| 4-1000 | 4-1640 | 0.573 | 321.5 | -6.3 | 4.45 | 1.209 | 117.1 | 0.604 | 1.781 | 283.8 | 562.0 | 0.705 | 2.856 | -4.98 | 0.466 | 62.7 | 32.3 | -7.1 | 0.289 |
| 4-1000 | 4-1660 | 0.603 | 323.6 | -6.9 | 4.04 | 1.211 | 118.9 | 0.623 | 1.794 | 280.3 | 563.1 | 0.677 | 2.911 | -5.05 | 0.470 | 60.2 | 35.9 | -6.8 | 0.305 |
| 4-1000 | 4-1680 | 0.636 | 325.7 | -7.4 | 3.62 | 1.213 | 120.7 | 0.643 | 1.808 | 276.6 | 564.0 | 0.646 | 2.970 | -5.16 | 0.474 | 57.7 | 39.7 | -6.4 | 0.321 |
| 4-1000 | 4-1700 | 0.671 | 327.8 | -7.9 | 3.18 | 1.215 | 122.7 | 0.664 | 1.822 | 272.8 | 564.6 | 0.613 | 3.031 | -5.31 | 0.479 | 55.1 | 43.7 | -6.2 | 0.339 |
| 4-1000 | 4-1720 | 0.709 | 330.0 | -8.2 | 2.71 | 1.216 | 124.9 | 0.686 | 1.836 | 268.7 | 565.1 | 0.577 | 3.098 | -5.51 | 0.484 | 52.5 | 47.9 | -5.9 | 0.357 |
| 4-1000 | 4-1740 | 0.751 | 332.3 | -8.4 | 2.19 | 1.218 | 127.2 | 0.710 | 1.851 | 264.3 | 565.3 | 0.538 | 3.164 | -5.75 | 0.490 | 49.8 | 52.2 | -5.7 | 0.378 |
| 4-1000 | 4-1760 | 0.796 | 334.6 | -8.5 | 1.63 | 1.220 | 129.7 | 0.735 | 1.866 | 259.8 | 565.3 | 0.495 | 3.236 | -6.06 | 0.496 | 46.9 | 58.8 | -5.5 | 0.400 |
| 4-1010 | 4-1170 | 0.573 | 311.9 | -28.6 | -4.47 | 1.389 | 109.6 | 0.921 | 11.096 | 319.0 | 465.3 | 0.874 | --- | 10.41 | 0.901 | 139.6 | 40.9 | 9.2 | 0.659 |
| 4-1010 | 4-1190 | 0.504 | 314.5 | -35.4 | -6.83 | 1.329 | 107.4 | 0.775 | 3.960 | 320.0 | 472.3 | 0.889 | --- | 12.45 | 0.801 | 135.5 | 42.7 | 12.6 | 0.553 |
| 4-1010 | 4-1210 | 0.471 | 319.8 | -45.2 | -10.29 | 1.288 | 105.5 | 0.674 | 2.769 | 321.2 | 479.3 | 0.902 | --- | 15.59 | 0.726 | 131.3 | 43.4 | 17.9 | 0.477 |
| 4-1010 | 4-1230 | 0.490 | 333.6 | -58.0 | -15.93 | 1.259 | 103.9 | 0.602 | 2.297 | 322.5 | 488.2 | 0.913 | --- | 20.93 | 0.667 | 127.0 | 42.2 | 26.0 | 0.434 |
| 4-1010 | 4-1250 | 0.618 | 14.3 | -66.6 | -26.77 | 1.238 | 102.6 | 0.550 | 2.054 | 324.0 | 492.9 | 0.923 | --- | 31.47 | 0.622 | 122.8 | 36.5 | 37.3 | 0.450 |
| 4-1010 | 4-1270 | 1.023 | 57.4 | -52.1 | -52.46 | 1.223 | 101.3 | 0.512 | 1.913 | 326.3 | 499.4 | 0.934 | --- | 56.87 | 0.586 | 118.6 | 20.9 | 44.3 | 0.617 |
| 4-1010 | 4-1310 | 0.845 | 315.6 | 60.5 | 42.08 | 1.206 | 102.1 | 0.479 | 1.769 | 321.9 | 511.2 | 0.922 | --- | -38.22 | 0.535 | 111.7 | 29.9 | -46.1 | 0.427 |
| 4-1010 | 4-1330 | 0.611 | 304.5 | 48.8 | 28.08 | 1.201 | 101.7 | 0.466 | 1.733 | 322.6 | 516.5 | 0.926 | --- | -24.51 | 0.517 | 107.9 | 34.3 | -42.4 | 0.302 |
| 4-1010 | 4-1350 | 0.503 | 301.9 | 39.8 | 21.27 | 1.198 | 101.6 | 0.458 | 1.710 | 322.5 | 521.5 | 0.926 | --- | -17.97 | 0.502 | 104.5 | 33.6 | -38.2 | 0.243 |
| 4-1010 | 4-1370 | 0.445 | 301.7 | 32.9 | 17.30 | 1.196 | 101.6 | 0.455 | 1.696 | 322.0 | 526.0 | 0.925 | --- | -14.27 | 0.491 | 101.1 | 30.9 | -34.4 | 0.210 |
| 4-1010 | 4-1390 | 0.412 | 302.3 | 27.2 | 14.68 | 1.195 | 101.9 | 0.454 | 1.689 | 321.2 | 530.2 | 0.922 | --- | -11.92 | 0.482 | 98.0 | 27.5 | -30.9 | 0.192 |
| 4-1010 | 4-1410 | 0.393 | 303.3 | 22.4 | 12.80 | 1.194 | 102.2 | 0.456 | 1.687 | 320.0 | 534.1 | 0.918 | --- | -10.32 | 0.475 | 94.9 | 24.3 | -27.7 | 0.182 |
| 4-1010 | 4-1430 | 0.384 | 304.7 | 18.4 | 11.38 | 1.195 | 102.7 | 0.459 | 1.688 | 318.7 | 537.6 | 0.913 | --- | -9.17 | 0.469 | 92.0 | 21.6 | -24.7 | 0.179 |
| 4-1010 | 4-1450 | 0.380 | 306.3 | 14.8 | 10.24 | 1.195 | 103.3 | 0.465 | 1.693 | 317.1 | 540.9 | 0.906 | 2.479 | -8.32 | 0.465 | 89.2 | 19.7 | -22.1 | 0.179 |
| 4-1010 | 4-1470 | 0.381 | 308.0 | 11.7 | 9.30 | 1.196 | 104.0 | 0.471 | 1.699 | 315.2 | 543.9 | 0.899 | 2.499 | -7.67 | 0.462 | 86.5 | 18.6 | -19.7 | 0.183 |
| 4-1010 | 4-1490 | 0.386 | 309.9 | 8.9 | 8.50 | 1.197 | 104.7 | 0.479 | 1.707 | 313.2 | 546.7 | 0.889 | 2.524 | -7.17 | 0.460 | 83.9 | 18.4 | -17.6 | 0.188 |
| 4-1010 | 4-1510 | 0.394 | 311.8 | 6.5 | 7.80 | 1.199 | 105.6 | 0.488 | 1.716 | 311.1 | 549.3 | 0.879 | 2.552 | -6.77 | 0.459 | 81.4 | 18.8 | -15.9 | 0.196 |
| 4-1010 | 4-1530 | 0.404 | 313.8 | 4.3 | 7.18 | 1.200 | 106.5 | 0.497 | 1.726 | 308.8 | 551.7 | 0.867 | 2.584 | -6.47 | 0.459 | 78.9 | 19.9 | -14.4 | 0.204 |
| 4-1010 | 4-1550 | 0.418 | 315.9 | 2.4 | 6.61 | 1.201 | 107.5 | 0.508 | 1.736 | 306.3 | 553.9 | 0.854 | 2.619 | -6.23 | 0.459 | 76.5 | 21.5 | -13.1 | 0.213 |
| 4-1010 | 4-1570 | 0.433 | 318.0 | 0.8 | 6.08 | 1.203 | 108.6 | 0.520 | 1.748 | 303.7 | 555.9 | 0.840 | 2.656 | -6.04 | 0.460 | 74.1 | 23.5 | -12.1 | 0.223 |
| 4-1010 | 4-1590 | 0.450 | 320.1 | -0.7 | 5.58 | 1.205 | 109.7 | 0.532 | 1.760 | 301.0 | 557.7 | 0.823 | 2.696 | -5.91 | 0.462 | 71.8 | 25.9 | -11.1 | 0.234 |
| 4-1010 | 4-1610 | 0.470 | 322.2 | -1.9 | 5.10 | 1.206 | 111.0 | 0.546 | 1.772 | 298.1 | 559.4 | 0.805 | 2.739 | -5.82 | 0.465 | 69.5 | 28.6 | -10.4 | 0.245 |
| 4-1010 | 4-1630 | 0.492 | 324.4 | -3.0 | 4.63 | 1.208 | 112.3 | 0.560 | 1.785 | 295.1 | 561.0 | 0.785 | 2.784 | -5.77 | 0.468 | 67.2 | 31.5 | -9.7 | 0.257 |
| 4-1010 | 4-1650 | 0.516 | 326.5 | -3.9 | 4.17 | 1.210 | 113.7 | 0.575 | 1.798 | 291.9 | 562.4 | 0.764 | 2.832 | -5.75 | 0.471 | 64.9 | 34.7 | -9.1 | 0.270 |
| 4-1010 | 4-1670 | 0.542 | 328.7 | -4.7 | 3.71 | 1.211 | 115.3 | 0.592 | 1.811 | 288.6 | 563.6 | 0.740 | 2.883 | -5.78 | 0.475 | 62.7 | 38.2 | -8.6 | 0.284 |
| 4-1010 | 4-1690 | 0.571 | 330.8 | -5.3 | 3.25 | 1.213 | 116.9 | 0.609 | 1.824 | 285.1 | 564.6 | 0.713 | 2.938 | -5.84 | 0.479 | 60.4 | 41.8 | -8.2 | 0.298 |
| 4-1010 | 4-1710 | 0.602 | 333.0 | -5.9 | 2.77 | 1.215 | 118.7 | 0.628 | 1.838 | 281.4 | 565.5 | 0.684 | 2.992 | -5.93 | 0.484 | 58.0 | 45.7 | -7.8 | 0.313 |
| 4-1010 | 4-1730 | 0.635 | 335.3 | -6.3 | 2.27 | 1.216 | 120.6 | 0.648 | 1.852 | 277.6 | 566.3 | 0.653 | 3.051 | -6.07 | 0.490 | 55.7 | 49.7 | -7.4 | 0.330 |
| 4-1010 | 4-1750 | 0.672 | 337.5 | -6.5 | 1.74 | 1.218 | 122.7 | 0.669 | 1.866 | 273.6 | 566.8 | 0.618 | 3.113 | -6.26 | 0.495 | 53.2 | 53.9 | -7.1 | 0.348 |
| 4-1010 | 4-1770 | 0.712 | 339.8 | -6.7 | 1.17 | 1.220 | 124.9 | 0.691 | 1.880 | 269.3 | 567.1 | 0.581 | 3.179 | -6.51 | 0.501 | 50.7 | 58.3 | -6.9 | 0.367 |
| 4-1020 | 4-1160 | 0.621 | 315.0 | -23.8 | -2.91 | 1.464 | 108.9 | 1.115 | -7.787 | 324.2 | 457.5 | 0.894 | --- | 8.81 | 1.016 | 142.3 | 42.3 | 7.1 | 0.771 |
| 4-1020 | 4-1180 | 0.524 | 316.5 | -28.2 | -4.35 | 1.381 | 106.5 | 0.902 | 9.224 | 325.1 | 464.4 | 0.908 | --- | 9.85 | 0.889 | 138.4 | 44.5 | 9.2 | 0.634 |
| 4-1020 | 4-1200 | 0.458 | 318.5 | -34.3 | -6.16 | 1.323 | 104.5 | 0.758 | 3.805 | 326.3 | 471.6 | 0.921 | --- | 11.28 | 0.793 | 134.3 | 46.2 | 12.1 | 0.531 |
| 4-1020 | 4-1220 | 0.421 | 322.2 | -42.7 | -8.56 | 1.284 | 102.8 | 0.659 | 2.730 | 327.7 | 478.7 | 0.932 | --- | 13.32 | 0.720 | 130.2 | 47.2 | 16.2 | 0.453 |
| 4-1020 | 4-1240 | 0.416 | 329.9 | -53.1 | -11.96 | 1.256 | 101.4 | 0.589 | 2.288 | 329.1 | 485.8 | 0.941 | --- | 16.39 | 0.663 | 126.1 | 47.0 | 22.2 | 0.400 |
| 4-1020 | 4-1260 | 0.458 | 348.7 | -63.8 | -17.27 | 1.236 | 100.2 | 0.539 | 2.057 | 330.5 | 492.7 | 0.948 | --- | 21.36 | 0.619 | 122.0 | 44.8 | 30.6 | 0.376 |
| 4-1020 | 4-1280 | 0.586 | 29.9 | -67.6 | -26.65 | 1.222 | 99.3 | 0.504 | 1.922 | 332.0 | 499.3 | 0.954 | --- | 30.42 | 0.585 | 118.0 | 38.7 | 40.6 | 0.402 |
| 4-1020 | 4-1300 | 0.905 | 64.5 | -55.0 | -46.28 | 1.212 | 98.3 | 0.477 | 1.837 | 334.0 | 505.6 | 0.960 | --- | 49.74 | 0.557 | 114.0 | 26.4 | 46.7 | 0.534 |
| 4-1020 | 4-1340 | 1.013 | 331.1 | 71.7 | 52.91 | 1.201 | 100.0 | 0.459 | 1.748 | 327.8 | 516.2 | 0.945 | --- | -50.06 | 0.518 | 107.7 | 27.0 | -47.9 | 0.510 |
| 4-1020 | 4-1360 | 0.691 | 307.6 | 59.3 | 33.75 | 1.198 | 99.6 | 0.451 | 1.726 | 328.7 | 521.2 | 0.948 | --- | -31.19 | 0.504 | 104.2 | 32.3 | -47.7 | 0.342 |
| 4-1020 | 4-1380 | 0.539 | 303.6 | 49.0 | 24.55 | 1.196 | 99.6 | 0.446 | 1.713 | 328.6 | 525.7 | 0.948 | --- | -22.29 | 0.493 | 101.0 | 32.4 | -44.2 | 0.264 |
| 4-1020 | 4-1400 | 0.459 | 303.4 | 40.8 | 19.34 | 1.195 | 99.7 | 0.445 | 1.706 | 328.0 | 529.9 | 0.946 | --- | -17.38 | 0.485 | 97.9 | 30.3 | -40.0 | 0.223 |
| 4-1020 | 4-1420 | 0.413 | 304.4 | 34.0 | 16.00 | 1.195 | 100.0 | 0.446 | 1.704 | 327.0 | 533.8 | 0.944 | --- | -14.33 | 0.478 | 95.0 | 27.5 | -35.9 | 0.201 |
| 4-1020 | 4-1440 | 0.386 | 305.9 | 28.3 | 13.65 | 1.195 | 100.5 | 0.449 | 1.706 | 325.7 | 537.3 | 0.939 | --- | -12.28 | 0.473 | 92.2 | 25.0 | -32.0 | 0.190 |
| 4-1020 | 4-1460 | 0.371 | 307.8 | 23.3 | 11.90 | 1.196 | 101.0 | 0.454 | 1.710 | 324.2 | 540.6 | 0.934 | 2.488 | -10.82 | 0.469 | 89.5 | 23.2 | -28.4 | 0.185 |
| 4-1020 | 4-1480 | 0.364 | 309.9 | 19.0 | 10.51 | 1.197 | 101.6 | 0.459 | 1.717 | 322.4 | 543.6 | 0.928 | 2.505 | -9.74 | 0.466 | 86.9 | 22.1 | -25.3 | 0.185 |
| 4-1020 | 4-1500 | 0.362 | 312.1 | 15.3 | 9.39 | 1.198 | 102.3 | 0.466 | 1.724 | 320.5 | 546.4 | 0.921 | 2.528 | -8.92 | 0.464 | 84.5 | 21.7 | -22.5 | 0.187 |
| 4-1020 | 4-1520 | 0.365 | 314.4 | 12.0 | 8.43 | 1.199 | 103.1 | 0.474 | 1.733 | 318.4 | 549.0 | 0.912 | 2.555 | -8.29 | 0.463 | 82.1 | 22.1 | -20.2 | 0.192 |
| 4-1020 | 4-1540 | 0.372 | 316.8 | 9.2 | 7.61 | 1.200 | 103.9 | 0.482 | 1.743 | 316.1 | 551.4 | 0.903 | 2.584 | -7.79 | 0.463 | 79.7 | 23.0 | -18.2 | 0.198 |
| 4-1020 | 4-1560 | 0.381 | 319.1 | 6.7 | 6.88 | 1.202 | 104.8 | 0.492 | 1.754 | 313.7 | 553.7 | 0.892 | 2.618 | -7.40 | 0.464 | 77.5 | 24.5 | -16.5 | 0.206 |
| 4-1020 | 4-1580 | 0.393 | 321.5 | 4.5 | 6.22 | 1.203 | 105.8 | 0.502 | 1.766 | 311.2 | 555.8 | 0.880 | 2.651 | -7.09 | 0.465 | 75.2 | 26.4 | -15.0 | 0.214 |
| 4-1020 | 4-1600 | 0.407 | 323.9 | 2.6 | 5.61 | 1.205 | 106.9 | 0.513 | 1.777 | 308.6 | 557.7 | 0.886 | 2.688 | -6.85 | 0.467 | 73.1 | 28.7 | -13.8 | 0.223 |
| 4-1020 | 4-1620 | 0.424 | 326.3 | 1.0 | 5.04 | 1.206 | 108.0 | 0.524 | 1.790 | 305.8 | 559.5 | 0.851 | 2.728 | -6.67 | 0.470 | 70.9 | 31.3 | -12.8 | 0.233 |
| 4-1020 | 4-1640 | 0.442 | 328.6 | -0.3 | 4.50 | 1.208 | 109.2 | 0.537 | 1.802 | 302.9 | 561.1 | 0.835 | 2.769 | -6.54 | 0.473 | 68.8 | 34.1 | -11.9 | 0.243 |
| 4-1020 | 4-1660 | 0.463 | 331.0 | -1.5 | 3.97 | 1.210 | 110.5 | 0.550 | 1.815 | 299.9 | 562.6 | 0.816 | 2.813 | -6.45 | 0.476 | 66.7 | 37.2 | -11.1 | 0.254 |
| 4-1020 | 4-1680 | 0.486 | 333.3 | -2.4 | 3.46 | 1.211 | 111.9 | 0.565 | 1.828 | 296.7 | 564.0 | 0.796 | 2.859 | -6.41 | 0.480 | 64.6 | 40.5 | -10.5 | 0.266 |
| 4-1020 | 4-1700 | 0.511 | 335.6 | -3.2 | 2.95 | 1.213 | 113.4 | 0.580 | 1.841 | 293.4 | 565.2 | 0.773 | 2.908 | -6.40 | 0.485 | 62.5 | 44.1 | -9.9 | 0.279 |
| 4-1020 | 4-1720 | 0.538 | 337.9 | -3.9 | 2.44 | 1.214 | 115.0 | 0.596 | 1.854 | 289.9 | 566.3 | 0.749 | 2.959 | -6.44 | 0.490 | 60.4 | 47.8 | -9.4 | 0.292 |
| 4-1020 | 4-1740 | 0.568 | 340.3 | -4.4 | 1.91 | 1.216 | 116.7 | 0.614 | 1.867 | 286.3 | 567.2 | 0.721 | 3.013 | -6.52 | 0.495 | 58.3 | 51.6 | -9.0 | 0.307 |
| 4-1020 | 4-1760 | 0.600 | 342.6 | -4.7 | 1.37 | 1.218 | 118.5 | 0.632 | 1.881 | 282.5 | 568.0 | 0.691 | 3.070 | -6.64 | 0.501 | 56.1 | 55.7 | -8.6 | 0.323 |
| 4-1020 | 4-1780 | 0.636 | 344.9 | -5.0 | 0.80 | 1.219 | 120.5 | 0.652 | 1.894 | 278.5 | 568.5 | 0.659 | 3.130 | -6.82 | 0.507 | 53.9 | 60.0 | -8.2 | 0.340 |
| 4-1030 | 4-1170 | 0.565 | 318.7 | -24.0 | -3.08 | 1.449 | 105.4 | 1.085 | 10.969 | 330.4 | 456.8 | 0.928 | --- | 8.52 | 0.996 | 141.0 | 45.7 | 7.2 | 0.738 |
| 4-1030 | 4-1190 | 0.474 | 319.9 | -28.4 | -4.30 | 1.370 | 103.3 | 0.876 | 7.598 | 331.6 | 464.0 | 0.940 | --- | 9.29 | 0.874 | 137.2 | 47.8 | 9.1 | 0.607 |
| 4-1030 | 4-1210 | 0.414 | 321.4 | -34.3 | -5.75 | 1.316 | 101.4 | 0.737 | 3.609 | 333.0 | 471.3 | 0.950 | --- | 10.32 | 0.781 | 133.2 | 49.4 | 11.6 | 0.507 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1030 | 4-1230 | 0.377 | 324.0 | -41.9 | -7.55 | 1.278 | 99.9 | 0.641 | 2.669 | 334.6 | 478.7 | 0.958 | --- | 11.73 | 0.711 | 129.1 | 50.4 | 15.1 | 0.431 |
| 4-1030 | 4-1250 | 0.365 | 328.9 | -50.9 | -9.88 | 1.252 | 98.6 | 0.574 | 2.265 | 336.2 | 485.9 | 0.965 | --- | 13.68 | 0.657 | 125.0 | 50.6 | 19.9 | 0.375 |
| 4-1030 | 4-1270 | 0.380 | 339.3 | -60.6 | -13.10 | 1.233 | 97.7 | 0.527 | 2.050 | 337.7 | 492.9 | 0.970 | --- | 16.54 | 0.615 | 121.0 | 49.4 | 26.3 | 0.339 |
| 4-1030 | 4-1290 | 0.433 | 2.5 | -68.6 | -17.89 | 1.220 | 96.9 | 0.494 | 1.923 | 339.0 | 499.6 | 0.974 | --- | 20.99 | 0.582 | 117.1 | 46.3 | 34.4 | 0.328 |
| 4-1030 | 4-1310 | 0.551 | 42.0 | -69.1 | -25.83 | 1.211 | 96.3 | 0.470 | 1.843 | 340.2 | 505.8 | 0.977 | --- | 28.59 | 0.556 | 113.4 | 40.3 | 43.1 | 0.357 |
| 4-1030 | 4-1330 | 0.803 | 70.8 | -58.3 | -40.91 | 1.204 | 95.7 | 0.453 | 1.792 | 341.7 | 511.7 | 0.980 | --- | 43.34 | 0.535 | 109.7 | 30.8 | 48.5 | 0.461 |
| 4-1030 | 4-1370 | 1.223 | 13.5 | 80.2 | 66.44 | 1.197 | 98.1 | 0.446 | 1.739 | 333.4 | 521.0 | 0.963 | --- | -64.64 | 0.505 | 104.1 | 26.8 | -45.8 | 0.618 |
| 4-1030 | 4-1390 | 0.802 | 309.7 | 69.6 | 40.83 | 1.196 | 97.6 | 0.440 | 1.727 | 334.8 | 525.7 | 0.967 | --- | -39.34 | 0.495 | 100.8 | 31.6 | -50.1 | 0.402 |
| 4-1030 | 4-1410 | 0.591 | 303.3 | 57.7 | 28.39 | 1.195 | 97.6 | 0.438 | 1.721 | 334.8 | 529.9 | 0.967 | --- | -27.21 | 0.487 | 97.7 | 32.1 | -48.1 | 0.296 |
| 4-1030 | 4-1430 | 0.481 | 303.4 | 48.3 | 21.59 | 1.195 | 97.9 | 0.439 | 1.719 | 334.0 | 533.7 | 0.965 | --- | -20.71 | 0.480 | 94.9 | 30.4 | -44.2 | 0.243 |
| 4-1030 | 4-1450 | 0.418 | 305.1 | 40.5 | 17.36 | 1.195 | 98.2 | 0.441 | 1.721 | 332.9 | 537.2 | 0.962 | --- | -16.79 | 0.475 | 92.2 | 28.3 | -39.7 | 0.215 |
| 4-1030 | 4-1470 | 0.382 | 307.4 | 33.8 | 14.46 | 1.196 | 98.7 | 0.445 | 1.726 | 331.4 | 540.5 | 0.958 | 2.494 | -14.20 | 0.472 | 89.6 | 26.5 | -35.4 | 0.200 |
| 4-1030 | 4-1490 | 0.360 | 309.9 | 28.0 | 12.33 | 1.197 | 99.3 | 0.450 | 1.733 | 329.7 | 543.5 | 0.954 | 2.512 | -12.38 | 0.469 | 87.1 | 25.4 | -31.4 | 0.193 |
| 4-1030 | 4-1510 | 0.349 | 312.7 | 23.0 | 10.69 | 1.198 | 99.9 | 0.455 | 1.741 | 327.8 | 546.3 | 0.948 | 2.533 | -11.05 | 0.468 | 84.8 | 25.0 | -27.9 | 0.191 |
| 4-1030 | 4-1530 | 0.344 | 315.5 | 18.6 | 9.36 | 1.199 | 100.6 | 0.462 | 1.750 | 325.8 | 548.9 | 0.941 | 2.558 | -10.05 | 0.467 | 82.5 | 25.2 | -24.8 | 0.193 |
| 4-1030 | 4-1550 | 0.345 | 318.3 | 14.8 | 8.26 | 1.200 | 101.4 | 0.469 | 1.760 | 323.6 | 551.3 | 0.934 | 2.586 | -9.27 | 0.467 | 80.3 | 26.1 | -22.2 | 0.196 |
| 4-1030 | 4-1570 | 0.349 | 321.1 | 11.5 | 7.31 | 1.202 | 102.3 | 0.478 | 1.771 | 321.3 | 553.6 | 0.925 | 2.616 | -8.67 | 0.468 | 78.2 | 27.4 | -20.0 | 0.201 |
| 4-1030 | 4-1590 | 0.357 | 323.9 | 8.7 | 6.48 | 1.203 | 103.2 | 0.486 | 1.782 | 318.8 | 555.7 | 0.915 | 2.649 | -8.18 | 0.470 | 76.1 | 29.3 | -18.2 | 0.208 |
| 4-1030 | 4-1610 | 0.368 | 326.7 | 6.3 | 5.74 | 1.205 | 104.2 | 0.496 | 1.794 | 316.3 | 557.7 | 0.904 | 2.683 | -7.80 | 0.472 | 74.0 | 31.4 | -16.6 | 0.215 |
| 4-1030 | 4-1630 | 0.381 | 329.5 | 4.2 | 5.06 | 1.206 | 105.2 | 0.506 | 1.806 | 313.6 | 559.6 | 0.892 | 2.720 | -7.50 | 0.474 | 72.0 | 33.9 | -15.3 | 0.223 |
| 4-1030 | 4-1650 | 0.397 | 332.1 | 2.5 | 4.43 | 1.208 | 106.3 | 0.517 | 1.818 | 310.8 | 561.3 | 0.878 | 2.758 | -7.27 | 0.478 | 70.1 | 36.7 | -14.2 | 0.232 |
| 4-1030 | 4-1670 | 0.415 | 334.8 | 1.0 | 3.83 | 1.209 | 107.5 | 0.529 | 1.831 | 307.8 | 562.9 | 0.863 | 2.799 | -7.09 | 0.481 | 68.1 | 39.7 | -13.2 | 0.242 |
| 4-1030 | 4-1690 | 0.434 | 337.4 | -0.2 | 3.26 | 1.211 | 108.8 | 0.541 | 1.843 | 304.8 | 564.4 | 0.845 | 2.841 | -6.98 | 0.485 | 66.2 | 42.9 | -12.3 | 0.252 |
| 4-1030 | 4-1710 | 0.456 | 339.9 | -1.2 | 2.70 | 1.212 | 110.1 | 0.555 | 1.856 | 301.6 | 565.7 | 0.827 | 2.886 | -6.89 | 0.490 | 64.3 | 46.3 | -11.6 | 0.263 |
| 4-1030 | 4-1730 | 0.480 | 342.4 | -2.0 | 2.15 | 1.214 | 111.5 | 0.569 | 1.869 | 298.3 | 567.0 | 0.806 | 2.933 | -6.85 | 0.495 | 62.4 | 49.9 | -11.0 | 0.275 |
| 4-1030 | 4-1750 | 0.506 | 344.9 | -2.6 | 1.60 | 1.216 | 113.1 | 0.584 | 1.882 | 294.8 | 568.0 | 0.783 | 2.982 | -6.86 | 0.500 | 60.4 | 53.7 | -10.4 | 0.288 |
| 4-1030 | 4-1770 | 0.535 | 347.4 | -3.1 | 1.05 | 1.217 | 114.7 | 0.601 | 1.895 | 291.2 | 569.0 | 0.757 | 3.034 | -6.91 | 0.506 | 58.5 | 57.7 | -9.9 | 0.301 |
| 4-1030 | 4-1790 | 0.566 | 349.8 | -3.4 | 0.48 | 1.219 | 116.5 | 0.618 | 1.909 | 287.3 | 569.8 | 0.729 | 3.086 | -7.01 | 0.512 | 56.5 | 61.8 | -9.5 | 0.316 |
| 4-1040 | 4-1160 | 0.631 | 320.1 | -21.3 | -2.31 | 1.543 | 103.8 | 1.360 | -2.638 | 336.1 | 449.5 | 0.949 | --- | 7.73 | 1.133 | 143.3 | 46.7 | 6.0 | 0.870 |
| 4-1040 | 4-1180 | 0.510 | 321.0 | -24.7 | -3.25 | 1.432 | 101.7 | 1.046 | 20.817 | 337.1 | 456.6 | 0.958 | --- | 8.15 | 0.973 | 139.7 | 48.9 | 7.3 | 0.704 |
| 4-1040 | 4-1200 | 0.427 | 321.7 | -29.4 | -4.30 | 1.358 | 99.8 | 0.846 | 6.271 | 338.6 | 464.0 | 0.967 | --- | 8.72 | 0.855 | 135.9 | 50.8 | 9.0 | 0.579 |
| 4-1040 | 4-1220 | 0.372 | 322.5 | -35.4 | -5.50 | 1.307 | 98.2 | 0.712 | 3.388 | 340.3 | 471.6 | 0.974 | --- | 9.46 | 0.767 | 131.9 | 52.3 | 11.2 | 0.483 |
| 4-1040 | 4-1240 | 0.339 | 323.9 | -42.6 | -6.91 | 1.272 | 96.8 | 0.621 | 2.589 | 342.1 | 479.2 | 0.980 | --- | 10.44 | 0.701 | 127.9 | 53.3 | 14.2 | 0.409 |
| 4-1040 | 4-1260 | 0.325 | 326.9 | -50.8 | -8.63 | 1.247 | 95.8 | 0.558 | 2.229 | 343.9 | 486.6 | 0.984 | --- | 11.76 | 0.649 | 123.9 | 53.4 | 18.1 | 0.353 |
| 4-1040 | 4-1280 | 0.329 | 333.0 | -59.4 | -10.82 | 1.229 | 94.9 | 0.514 | 2.033 | 345.4 | 493.7 | 0.988 | --- | 13.57 | 0.609 | 120.0 | 52.6 | 23.3 | 0.313 |
| 4-1040 | 4-1300 | 0.356 | 346.1 | -67.5 | -13.75 | 1.217 | 94.3 | 0.483 | 1.916 | 346.7 | 500.4 | 0.990 | --- | 16.14 | 0.577 | 116.2 | 50.4 | 29.8 | 0.290 |
| 4-1040 | 4-1320 | 0.411 | 13.5 | -72.9 | -17.96 | 1.209 | 93.9 | 0.462 | 1.843 | 347.7 | 506.6 | 0.991 | --- | 19.99 | 0.552 | 112.5 | 46.7 | 37.4 | 0.287 |
| 4-1040 | 4-1340 | 0.515 | 51.3 | -71.5 | -24.54 | 1.203 | 93.5 | 0.447 | 1.796 | 348.6 | 512.3 | 0.992 | --- | 26.23 | 0.533 | 109.0 | 41.1 | 44.8 | 0.316 |
| 4-1040 | 4-1360 | 0.711 | 76.4 | -62.1 | -36.13 | 1.199 | 93.2 | 0.437 | 1.766 | 349.4 | 517.7 | 0.993 | --- | 37.49 | 0.517 | 105.6 | 34.0 | 49.8 | 0.397 |
| 4-1040 | 4-1380 | 1.095 | 88.6 | -45.7 | -58.89 | 1.196 | 92.7 | 0.431 | 1.747 | 351.0 | 522.8 | 0.995 | --- | 59.93 | 0.505 | 102.2 | 28.1 | 47.6 | 0.578 |
| 4-1040 | 4-1420 | 0.953 | 309.0 | 80.1 | 50.17 | 1.194 | 95.8 | 0.433 | 1.732 | 340.7 | 530.0 | 0.982 | --- | -49.77 | 0.488 | 97.5 | 38.0 | -49.8 | 0.483 |
| 4-1040 | 4-1440 | 0.664 | 299.8 | 66.0 | 33.15 | 1.194 | 95.8 | 0.433 | 1.731 | 340.8 | 533.9 | 0.982 | --- | -33.06 | 0.482 | 94.6 | 33.3 | -50.3 | 0.340 |
| 4-1040 | 4-1460 | 0.513 | 301.3 | 55.2 | 24.16 | 1.194 | 96.0 | 0.435 | 1.734 | 340.0 | 537.4 | 0.980 | --- | -24.38 | 0.477 | 92.0 | 31.7 | -47.0 | 0.269 |
| 4-1040 | 4-1480 | 0.429 | 304.2 | 46.4 | 18.79 | 1.195 | 96.4 | 0.438 | 1.739 | 338.7 | 540.6 | 0.978 | 2.501 | -19.32 | 0.474 | 89.5 | 30.0 | -42.6 | 0.232 |
| 4-1040 | 4-1500 | 0.380 | 307.5 | 38.9 | 15.24 | 1.196 | 97.0 | 0.442 | 1.746 | 337.1 | 543.6 | 0.975 | 2.518 | -16.07 | 0.472 | 87.1 | 28.7 | -38.0 | 0.212 |
| 4-1040 | 4-1520 | 0.350 | 311.0 | 32.3 | 12.69 | 1.197 | 97.6 | 0.447 | 1.755 | 335.3 | 546.4 | 0.970 | 2.539 | -13.84 | 0.471 | 84.9 | 28.2 | -33.7 | 0.202 |
| 4-1040 | 4-1540 | 0.334 | 314.5 | 26.5 | 10.76 | 1.198 | 98.2 | 0.453 | 1.764 | 333.3 | 549.0 | 0.965 | 2.563 | -12.22 | 0.471 | 82.7 | 28.3 | -29.9 | 0.198 |
| 4-1040 | 4-1560 | 0.326 | 318.0 | 21.5 | 9.23 | 1.200 | 99.0 | 0.459 | 1.775 | 331.2 | 551.4 | 0.960 | 2.590 | -11.02 | 0.471 | 80.6 | 29.0 | -26.6 | 0.198 |
| 4-1040 | 4-1580 | 0.324 | 321.5 | 17.2 | 7.98 | 1.201 | 99.8 | 0.466 | 1.786 | 328.9 | 553.7 | 0.953 | 2.618 | -10.09 | 0.472 | 78.6 | 30.3 | -23.8 | 0.201 |
| 4-1040 | 4-1600 | 0.327 | 324.9 | 13.4 | 6.91 | 1.203 | 100.6 | 0.474 | 1.797 | 326.5 | 555.8 | 0.945 | 2.649 | -9.36 | 0.474 | 76.6 | 32.0 | -21.5 | 0.205 |
| 4-1040 | 4-1620 | 0.333 | 328.3 | 10.3 | 5.99 | 1.204 | 101.5 | 0.482 | 1.809 | 324.0 | 557.9 | 0.936 | 2.681 | -8.79 | 0.476 | 74.7 | 34.1 | -19.5 | 0.210 |
| 4-1040 | 4-1640 | 0.343 | 331.5 | 7.6 | 5.17 | 1.206 | 102.5 | 0.491 | 1.821 | 321.4 | 559.7 | 0.927 | 2.715 | -8.33 | 0.479 | 72.8 | 36.5 | -17.8 | 0.217 |
| 4-1040 | 4-1660 | 0.355 | 334.7 | 5.4 | 4.43 | 1.207 | 103.5 | 0.501 | 1.833 | 318.6 | 561.5 | 0.915 | 2.751 | -7.97 | 0.482 | 71.0 | 39.2 | -16.4 | 0.224 |
| 4-1040 | 4-1680 | 0.370 | 337.7 | 3.5 | 3.74 | 1.209 | 104.6 | 0.511 | 1.846 | 315.8 | 563.2 | 0.903 | 2.789 | -7.68 | 0.486 | 69.2 | 42.1 | -15.2 | 0.232 |
| 4-1040 | 4-1700 | 0.387 | 340.7 | 2.0 | 3.10 | 1.210 | 105.8 | 0.522 | 1.858 | 312.8 | 564.8 | 0.889 | 2.828 | -7.46 | 0.490 | 67.4 | 45.3 | -14.1 | 0.241 |
| 4-1040 | 4-1720 | 0.406 | 343.6 | 0.7 | 2.49 | 1.212 | 107.0 | 0.533 | 1.871 | 309.7 | 566.2 | 0.873 | 2.869 | -7.29 | 0.495 | 65.7 | 48.6 | -13.2 | 0.250 |
| 4-1040 | 4-1740 | 0.427 | 346.4 | -0.3 | 1.90 | 1.213 | 108.3 | 0.546 | 1.884 | 306.5 | 567.6 | 0.856 | 2.912 | -7.18 | 0.500 | 63.9 | 52.1 | -12.4 | 0.261 |
| 4-1040 | 4-1760 | 0.450 | 349.1 | -1.0 | 1.33 | 1.215 | 109.7 | 0.559 | 1.897 | 303.2 | 568.8 | 0.836 | 2.957 | -7.11 | 0.505 | 62.2 | 55.8 | -11.7 | 0.272 |
| 4-1040 | 4-1780 | 0.476 | 351.8 | -1.6 | 0.75 | 1.216 | 111.2 | 0.573 | 1.910 | 299.7 | 569.9 | 0.815 | 3.004 | -7.09 | 0.511 | 60.4 | 59.7 | -11.1 | 0.284 |
| 4-1040 | 4-1800 | 0.503 | 354.4 | -2.0 | 0.18 | 1.218 | 112.8 | 0.589 | 1.923 | 296.0 | 570.9 | 0.791 | 3.054 | -7.11 | 0.517 | 58.6 | 63.7 | -10.6 | 0.297 |
| 4-1050 | 4-1170 | 0.569 | 321.2 | -22.4 | -2.59 | 1.517 | 99.7 | 1.297 | -3.288 | 342.9 | 449.5 | 0.976 | --- | 7.43 | 1.098 | 142.1 | 49.7 | 6.1 | 0.826 |
| 4-1050 | 4-1190 | 0.458 | 321.5 | -26.2 | -3.44 | 1.413 | 97.9 | 1.000 | 44.358 | 344.3 | 456.9 | 0.983 | --- | 7.72 | 0.946 | 138.5 | 51.8 | 7.2 | 0.668 |
| 4-1050 | 4-1210 | 0.384 | 321.3 | -31.3 | -4.35 | 1.344 | 96.2 | 0.810 | 5.213 | 346.1 | 464.7 | 0.988 | --- | 8.11 | 0.834 | 134.6 | 53.5 | 8.8 | 0.548 |
| 4-1050 | 4-1230 | 0.336 | 321.0 | -37.4 | -5.36 | 1.296 | 94.8 | 0.685 | 3.154 | 348.2 | 472.6 | 0.993 | --- | 8.64 | 0.751 | 130.7 | 54.8 | 10.8 | 0.457 |
| 4-1050 | 4-1250 | 0.307 | 321.0 | -44.5 | -6.50 | 1.263 | 93.7 | 0.600 | 2.493 | 350.3 | 480.4 | 0.996 | --- | 9.33 | 0.687 | 126.7 | 55.6 | 13.4 | 0.386 |
| 4-1050 | 4-1270 | 0.294 | 322.0 | -52.0 | -7.82 | 1.240 | 92.7 | 0.542 | 2.181 | 352.2 | 488.0 | 0.998 | --- | 10.23 | 0.638 | 122.7 | 55.6 | 16.7 | 0.331 |
| 4-1050 | 4-1290 | 0.295 | 325.0 | -59.7 | -9.41 | 1.224 | 92.1 | 0.502 | 2.007 | 353.8 | 495.1 | 0.999 | --- | 11.43 | 0.800 | 118.8 | 54.8 | 21.0 | 0.291 |
| 4-1050 | 4-1310 | 0.310 | 331.9 | -67.2 | -11.40 | 1.213 | 91.6 | 0.474 | 1.902 | 355.1 | 501.8 | 1.000 | --- | 13.03 | 0.571 | 115.1 | 52.9 | 26.3 | 0.263 |
| 4-1050 | 4-1330 | 0.340 | 347.3 | -73.7 | -13.99 | 1.205 | 91.3 | 0.455 | 1.836 | 356.0 | 507.9 | 1.001 | --- | 15.27 | 0.547 | 111.5 | 49.9 | 32.5 | 0.250 |
| 4-1050 | 4-1350 | 0.392 | 19.2 | -77.3 | -17.58 | 1.200 | 91.1 | 0.442 | 1.794 | 356.5 | 513.5 | 1.001 | --- | 18.51 | 0.529 | 108.1 | 45.7 | 39.2 | 0.253 |
| 4-1050 | 4-1370 | 0.479 | 57.8 | -74.8 | -22.95 | 1.196 | 91.0 | 0.434 | 1.767 | 356.8 | 518.7 | 1.001 | --- | 23.54 | 0.514 | 104.8 | 40.7 | 45.5 | 0.278 |
| 4-1050 | 4-1390 | 0.631 | 81.1 | -66.7 | -31.81 | 1.194 | 90.9 | 0.428 | 1.751 | 357.0 | 523.5 | 1.001 | --- | 32.08 | 0.503 | 101.7 | 35.7 | 50.1 | 0.341 |
| 4-1050 | 4-1410 | 0.914 | 93.4 | -53.6 | -48.27 | 1.193 | 90.7 | 0.426 | 1.743 | 357.6 | 528.0 | 1.001 | --- | 48.21 | 0.494 | 98.6 | 32.4 | 50.4 | 0.473 |
| 4-1050 | 4-1450 | 1.159 | 170.5 | 87.9 | 62.96 | 1.193 | 94.2 | 0.430 | 1.741 | 346.1 | 534.1 | 0.993 | --- | -63.63 | 0.482 | 94.4 | 36.7 | -46.8 | 0.591 |
| 4-1050 | 4-1470 | 0.767 | 289.1 | 73.7 | 39.45 | 1.193 | 94.0 | 0.430 | 1.744 | 346.7 | 537.7 | 0.993 | --- | -40.42 | 0.478 | 91.7 | 36.4 | -50.9 | 0.399 |
| 4-1050 | 4-1490 | 0.559 | 296.2 | 61.4 | 27.29 | 1.194 | 94.2 | 0.433 | 1.750 | 346.0 | 541.0 | 0.992 | 2.508 | -28.57 | 0.476 | 89.2 | 34.4 | -49.0 | 0.302 |
| 4-1050 | 4-1510 | 0.446 | 301.5 | 51.6 | 20.39 | 1.195 | 94.7 | 0.437 | 1.758 | 344.6 | 544.0 | 0.991 | 2.525 | -21.97 | 0.474 | 86.9 | 32.6 | -44.7 | 0.252 |
| 4-1050 | 4-1530 | 0.381 | 306.3 | 43.3 | 16.01 | 1.196 | 95.2 | 0.441 | 1.767 | 342.9 | 546.7 | 0.988 | 2.548 | -17.89 | 0.473 | 84.8 | 31.6 | -39.9 | 0.226 |
| 4-1050 | 4-1550 | 0.342 | 310.9 | 35.9 | 12.97 | 1.198 | 95.8 | 0.446 | 1.777 | 341.0 | 549.3 | 0.985 | 2.569 | -15.18 | 0.473 | 82.7 | 31.4 | -35.4 | 0.212 |
| 4-1050 | 4-1570 | 0.320 | 315.5 | 29.4 | 10.72 | 1.199 | 96.5 | 0.451 | 1.787 | 338.9 | 551.7 | 0.980 | 2.594 | -13.23 | 0.474 | 80.7 | 31.9 | -31.3 | 0.206 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1050 | 4-1590 | 0.308 | 319.8 | 23.7 | 8.98 | 1.201 | 97.3 | 0.458 | 1.799 | 336.6 | 553.9 | 0.976 | 2.622 | -11.80 | 0.475 | 78.8 | 33.1 | -27.8 | 0.204 |
| 4-1050 | 4-1610 | 0.303 | 324.1 | 18.8 | 7.57 | 1.202 | 98.1 | 0.464 | 1.810 | 334.3 | 556.1 | 0.970 | 2.651 | -10.71 | 0.477 | 76.9 | 34.7 | -24.9 | 0.205 |
| 4-1050 | 4-1630 | 0.304 | 328.2 | 14.7 | 6.40 | 1.204 | 98.9 | 0.471 | 1.822 | 331.8 | 558.1 | 0.963 | 2.681 | -9.86 | 0.480 | 75.1 | 36.7 | -22.4 | 0.208 |
| 4-1050 | 4-1650 | 0.310 | 332.2 | 11.2 | 5.39 | 1.205 | 99.9 | 0.479 | 1.835 | 329.2 | 560.0 | 0.956 | 2.714 | -9.20 | 0.483 | 73.4 | 39.0 | -20.3 | 0.213 |
| 4-1050 | 4-1670 | 0.318 | 336.0 | 8.3 | 4.50 | 1.207 | 100.8 | 0.487 | 1.847 | 326.5 | 561.9 | 0.947 | 2.747 | -8.68 | 0.486 | 71.7 | 41.6 | -18.6 | 0.218 |
| 4-1050 | 4-1690 | 0.330 | 339.6 | 5.9 | 3.71 | 1.208 | 101.8 | 0.496 | 1.860 | 323.7 | 563.6 | 0.937 | 2.782 | -8.24 | 0.490 | 70.0 | 44.5 | -17.1 | 0.225 |
| 4-1050 | 4-1710 | 0.344 | 343.1 | 3.9 | 2.98 | 1.210 | 102.9 | 0.506 | 1.872 | 320.8 | 565.2 | 0.926 | 2.819 | -7.90 | 0.494 | 68.4 | 47.6 | -15.8 | 0.232 |
| 4-1050 | 4-1730 | 0.360 | 346.4 | 2.4 | 2.31 | 1.211 | 104.1 | 0.516 | 1.885 | 317.8 | 566.7 | 0.913 | 2.857 | -7.63 | 0.499 | 66.7 | 50.9 | -14.7 | 0.240 |
| 4-1050 | 4-1750 | 0.379 | 349.6 | 1.2 | 1.67 | 1.213 | 105.3 | 0.526 | 1.898 | 314.7 | 568.2 | 0.899 | 2.896 | -7.43 | 0.504 | 65.1 | 54.3 | -13.7 | 0.249 |
| 4-1050 | 4-1770 | 0.399 | 352.7 | 0.2 | 1.06 | 1.214 | 106.6 | 0.538 | 1.910 | 311.4 | 569.5 | 0.883 | 2.938 | -7.28 | 0.510 | 63.5 | 58.0 | -12.9 | 0.259 |
| 4-1050 | 4-1790 | 0.422 | 355.7 | -0.5 | 0.47 | 1.215 | 107.9 | 0.550 | 1.923 | 308.1 | 570.7 | 0.865 | 2.981 | -7.18 | 0.516 | 61.9 | 61.8 | -12.2 | 0.269 |
| 4-1050 | 4-1810 | 0.446 | 358.6 | -0.9 | -0.11 | 1.217 | 109.4 | 0.563 | 1.936 | 304.5 | 571.8 | 0.845 | 3.027 | -7.13 | 0.522 | 60.3 | 65.7 | -11.6 | 0.281 |
| 4-1060 | 4-1180 | 0.514 | 320.4 | -24.2 | -2.87 | 1.488 | 95.3 | 1.223 | -4.467 | 350.4 | 450.3 | 0.996 | --- | 7.04 | 1.059 | 140.9 | 52.4 | 6.0 | 0.779 |
| 4-1060 | 4-1200 | 0.415 | 319.5 | -28.6 | -3.64 | 1.392 | 93.8 | 0.947 | 18.711 | 352.2 | 458.1 | 1.000 | --- | 7.21 | 0.915 | 137.2 | 54.2 | 7.1 | 0.630 |
| 4-1060 | 4-1220 | 0.350 | 318.0 | -34.1 | -4.44 | 1.328 | 92.4 | 0.771 | 4.381 | 354.5 | 466.2 | 1.002 | --- | 7.47 | 0.810 | 133.3 | 55.7 | 8.5 | 0.517 |
| 4-1060 | 4-1240 | 0.310 | 316.1 | -40.3 | -5.30 | 1.284 | 91.2 | 0.656 | 2.920 | 356.9 | 474.4 | 1.004 | --- | 7.83 | 0.731 | 129.4 | 56.8 | 10.3 | 0.430 |
| 4-1060 | 4-1260 | 0.286 | 314.3 | -46.9 | -6.24 | 1.254 | 90.3 | 0.579 | 2.386 | 359.2 | 482.4 | 1.004 | --- | 8.30 | 0.671 | 125.3 | 57.3 | 12.6 | 0.363 |
| 4-1060 | 4-1280 | 0.276 | 313.1 | -53.6 | -7.28 | 1.233 | 89.6 | 0.527 | 2.122 | 1.2 | 130.1 | --- | --- | 8.92 | 0.625 | 121.4 | 57.1 | 15.5 | 0.310 |
| 4-1060 | 4-1300 | 0.276 | 313.1 | -60.2 | -8.49 | 1.218 | 89.1 | 0.491 | 1.972 | 2.9 | 137.2 | --- | --- | 9.72 | 0.590 | 117.5 | 56.1 | 19.0 | 0.270 |
| 4-1060 | 4-1320 | 0.285 | 315.1 | -66.6 | -9.91 | 1.208 | 88.7 | 0.466 | 1.881 | 4.1 | 143.8 | --- | --- | 10.78 | 0.562 | 113.8 | 54.2 | 23.4 | 0.242 |
| 4-1060 | 4-1340 | 0.303 | 321.2 | -72.7 | -11.66 | 1.201 | 88.5 | 0.450 | 1.823 | 4.8 | 149.8 | --- | --- | 12.14 | 0.541 | 110.3 | 51.3 | 28.[illegible] | 0.224 |
| 4-1060 | 4-1360 | 0.332 | 336.2 | -78.2 | -13.89 | 1.197 | 88.4 | 0.439 | 1.787 | 5.1 | 155.3 | --- | --- | 14.03 | 0.524 | 107.0 | 47.6 | 33.9 | 0.217 |
| 4-1060 | 4-1380 | 0.376 | 12.9 | -81.6 | -16.88 | 1.194 | 88.5 | 0.432 | 1.764 | 5.1 | 160.2 | --- | --- | 16.69 | 0.510 | 103.8 | 43.4 | 39.6 | 0.223 |
| 4-1060 | 4-1400 | 0.446 | 60.0 | -79.3 | -21.18 | 1.192 | 88.6 | 0.427 | 1.752 | 4.8 | 164.8 | --- | --- | 20.67 | 0.500 | 100.8 | 39.2 | 44.9 | 0.245 |
| 4-1060 | 4-1420 | 0.560 | 84.4 | -72.1 | -27.90 | 1.191 | 88.7 | 0.425 | 1.745 | 4.4 | 169.0 | --- | --- | 27.08 | 0.492 | 97.9 | 35.9 | 49.3 | 0.293 |
| 4-1060 | 4-1440 | 0.764 | 97.0 | -61.4 | -39.66 | 1.191 | 88.8 | 0.425 | 1.744 | 4.1 | 172.9 | --- | --- | 38.53 | 0.486 | 95.2 | 34.7 | 51.4 | 0.386 |
| 4-1060 | 4-1460 | 1.145 | 105.6 | -45.3 | -62.37 | 1.191 | 88.6 | 0.425 | 1.746 | 4.6 | 176.7 | --- | --- | 60.94 | 0.481 | 92.5 | 36.9 | 47.7 | 0.569 |
| 4-1060 | 4-1500 | 0.917 | 256.5 | 79.6 | 48.40 | 1.193 | 92.3 | 0.430 | 1.758 | 352.4 | 541.5 | 1.002 | 2.515 | -50.41 | 0.476 | 88.9 | 41.4 | -49.9 | 0.480 |
| 4-1060 | 4-1520 | 0.625 | 286.5 | 66.7 | 31.37 | 1.194 | 92.5 | 0.433 | 1.767 | 351.9 | 544.5 | 1.001 | 2.532 | -33.67 | 0.475 | 86.6 | 38.5 | -50.1 | 0.343 |
| 4-1060 | 4-1540 | 0.471 | 296.6 | 55.9 | 22.26 | 1.195 | 92.9 | 0.437 | 1.776 | 350.5 | 547.2 | 1.000 | 2.553 | -24.85 | 0.475 | 84.5 | 36.2 | -46.3 | 0.275 |
| 4-1060 | 4-1560 | 0.386 | 303.7 | 46.7 | 16.79 | 1.197 | 93.5 | 0.441 | 1.787 | 348.7 | 549.7 | 0.998 | 2.576 | -19.67 | 0.475 | 82.5 | 35.1 | -41.3 | 0.240 |
| 4-1060 | 4-1580 | 0.336 | 309.9 | 38.6 | 13.16 | 1.198 | 94.1 | 0.446 | 1.798 | 346.7 | 552.1 | 0.996 | 2.600 | -16.33 | 0.476 | 80.6 | 35.1 | -36.5 | 0.222 |
| 4-1060 | 4-1600 | 0.306 | 315.6 | 31.3 | 10.56 | 1.200 | 94.8 | 0.451 | 1.810 | 344.5 | 554.3 | 0.993 | 2.627 | -14.02 | 0.478 | 78.8 | 35.9 | -32.2 | 0.213 |
| 4-1060 | 4-1620 | 0.290 | 321.0 | 25.0 | 8.59 | 1.201 | 95.6 | 0.457 | 1.822 | 342.1 | 556.5 | 0.989 | 2.655 | -12.36 | 0.480 | 77.0 | 37.3 | -28.5 | 0.210 |
| 4-1060 | 4-1640 | 0.283 | 326.1 | 19.5 | 7.03 | 1.203 | 96.4 | 0.463 | 1.834 | 339.7 | 558.5 | 0.984 | 2.684 | -11.10 | 0.483 | 75.3 | 39.2 | -25.4 | 0.209 |
| 4-1060 | 4-1660 | 0.283 | 331.0 | 15.0 | 5.75 | 1.204 | 97.3 | 0.470 | 1.847 | 337.1 | 560.4 | 0.979 | 2.715 | -10.14 | 0.486 | 73.7 | 41.4 | -22.8 | 0.212 |
| 4-1060 | 4-1680 | 0.287 | 335.6 | 11.1 | 4.66 | 1.206 | 98.2 | 0.477 | 1.859 | 334.4 | 562.3 | 0.972 | 2.746 | -9.38 | 0.490 | 72.1 | 44.0 | -20.7 | 0.215 |
| 4-1060 | 4-1700 | 0.295 | 340.1 | 8.1 | 3.73 | 1.207 | 99.2 | 0.485 | 1.872 | 331.7 | 564.0 | 0.965 | 2.779 | -8.78 | 0.494 | 70.5 | 46.8 | -18.8 | 0.220 |
| 4-1060 | 4-1720 | 0.306 | 344.3 | 5.6 | 2.89 | 1.209 | 100.2 | 0.493 | 1.885 | 328.8 | 565.7 | 0.956 | 2.813 | -8.29 | 0.499 | 69.0 | 49.8 | -17.3 | 0.226 |
| 4-1060 | 4-1740 | 0.319 | 348.2 | 3.6 | 2.14 | 1.210 | 101.2 | 0.501 | 1.898 | 325.9 | 567.3 | 0.946 | 2.849 | -7.91 | 0.503 | 67.5 | 53.1 | -16.0 | 0.233 |
| 4-1060 | 4-1760 | 0.335 | 352.0 | 2.1 | 1.45 | 1.212 | 102.4 | 0.510 | 1.910 | 322.8 | 568.8 | 0.935 | 2.888 | -7.60 | 0.509 | 66.0 | 56.5 | -14.8 | 0.240 |
| 4-1060 | 4-1780 | 0.353 | 355.5 | 1.0 | 0.80 | 1.213 | 103.6 | 0.520 | 1.923 | 319.6 | 570.2 | 0.922 | 2.924 | -7.36 | 0.514 | 64.6 | 60.1 | -13.9 | 0.249 |
| 4-1060 | 4-1800 | 0.373 | 358.9 | 0.2 | 0.18 | 1.215 | 104.8 | 0.531 | 1.936 | 316.3 | 571.5 | 0.908 | 2.964 | -7.18 | 0.520 | 63.1 | 63.8 | -13.0 | 0.258 |
| 4-1060 | 4-1820 | 0.395 | 2.2 | -0.4 | -0.41 | 1.216 | 106.2 | 0.543 | 1.949 | 312.9 | 572.7 | 0.891 | 3.006 | -7.05 | 0.527 | 61.6 | 67.7 | -12.3 | 0.268 |
| 4-1070 | 4-1170 | 0.608 | 318.2 | -22.9 | -2.48 | 1.595 | 91.8 | 1.562 | -1.789 | 357.0 | 444.1 | 1.006 | --- | 6.56 | 1.208 | 143.2 | 53.0 | 5.1 | 0.927 |
| 4-1070 | 4-1190 | 0.471 | 317.0 | -26.8 | -3.18 | 1.458 | 90.7 | 1.140 | -7.185 | 358.7 | 451.8 | 1.007 | --- | 6.56 | 1.017 | 139.8 | 54.7 | 5.9 | 0.732 |
| 4-1070 | 4-1210 | 0.385 | 314.6 | -31.7 | -3.87 | 1.370 | 89.5 | 0.889 | 9.039 | 1.0 | 100.1 | --- | --- | 6.64 | 0.882 | 136.0 | 56.2 | 6.9 | 0.591 |
| 4-1070 | 4-1230 | 0.331 | 311.3 | -37.2 | -4.57 | 1.311 | 88.4 | 0.730 | 3.728 | 3.7 | 108.7 | --- | --- | 6.78 | 0.783 | 132.1 | 57.5 | 8.1 | 0.485 |
| 4-1070 | 4-1250 | 0.298 | 307.5 | -42.9 | -5.31 | 1.271 | 87.5 | 0.627 | 2.695 | 6.5 | 117.2 | --- | --- | 7.01 | 0.709 | 128.0 | 58.2 | 9.7 | 0.403 |
| 4-1070 | 4-1270 | 0.280 | 303.9 | -48.5 | -6.08 | 1.244 | 86.8 | 0.559 | 2.274 | 9.0 | 125.3 | --- | --- | 7.32 | 0.653 | 124.0 | 58.4 | 11.7 | 0.339 |
| 4-1070 | 4-1290 | 0.273 | 300.8 | -53.9 | -6.92 | 1.225 | 86.3 | 0.513 | 2.056 | 11.1 | 133.0 | --- | --- | 7.73 | 0.610 | 120.0 | 57.9 | 14.2 | 0.290 |
| 4-1070 | 4-1310 | 0.272 | 298.6 | -59.0 | -7.85 | 1.212 | 85.9 | 0.482 | 1.930 | 12.7 | 140.0 | --- | --- | 8.26 | 0.577 | 116.2 | 56.5 | 17.2 | 0.252 |
| 4-1070 | 4-1330 | 0.278 | 297.7 | -63.9 | -8.91 | 1.203 | 85.7 | 0.461 | 1.853 | 13.7 | 146.4 | --- | --- | 8.94 | 0.552 | 112.5 | 54.3 | 20.7 | 0.224 |
| 4-1070 | 4-1350 | 0.288 | 298.5 | -68.9 | -10.15 | 1.197 | 85.6 | 0.447 | 1.804 | 14.2 | 152.2 | --- | --- | 9.82 | 0.532 | 109.0 | 51.3 | 24.7 | 0.205 |
| 4-1070 | 4-1370 | 0.305 | 301.9 | -73.9 | -11.64 | 1.193 | 85.7 | 0.438 | 1.774 | 14.3 | 157.5 | --- | --- | 10.98 | 0.517 | 105.7 | 47.7 | 29.1 | 0.195 |
| 4-1070 | 4-1390 | 0.329 | 310.6 | -79.0 | -13.50 | 1.190 | 85.8 | 0.432 | 1.757 | 14.0 | 162.2 | --- | --- | 12.52 | 0.505 | 102.6 | 43.7 | 33.7 | 0.193 |
| 4-1070 | 4-1410 | 0.364 | 336.5 | -83.8 | -15.94 | 1.189 | 86.0 | 0.428 | 1.747 | 13.4 | 166.5 | --- | --- | 14.64 | 0.496 | 99.7 | 39.9 | 38.2 | 0.200 |
| 4-1070 | 4-1430 | 0.417 | 47.0 | -84.4 | -19.32 | 1.189 | 86.3 | 0.427 | 1.744 | 12.5 | 170.4 | --- | --- | 17.72 | 0.489 | 97.0 | 36.8 | 42.7 | 0.218 |
| 4-1070 | 4-1450 | 0.500 | 84.7 | -78.5 | -24.36 | 1.189 | 86.6 | 0.426 | 1.745 | 11.5 | 174.1 | --- | --- | 22.47 | 0.483 | 94.4 | 35.0 | 46.9 | 0.252 |
| 4-1070 | 4-1470 | 0.643 | 99.0 | -69.5 | -32.67 | 1.189 | 86.9 | 0.427 | 1.749 | 10.5 | 177.5 | --- | --- | 30.50 | 0.480 | 91.9 | 35.2 | 50.2 | 0.317 |
| 4-1070 | 4-1490 | 0.910 | 108.6 | -56.7 | -48.21 | 1.190 | 87.0 | 0.429 | 1.755 | 9.9 | 180.7 | --- | 2.508 | 45.78 | 0.477 | 89.5 | 38.7 | 50.6 | 0.442 |
| 4-1070 | 4-1530 | 1.139 | 200.0 | 77.1 | 61.98 | 1.193 | 90.7 | 0.432 | 1.773 | 357.1 | 544.9 | 1.007 | 2.539 | -64.97 | 0.475 | 86.3 | 48.4 | -46.4 | 0.593 |
| 4-1070 | 4-1550 | 0.722 | 269.7 | 70.6 | 37.13 | 1.194 | 90.7 | 0.436 | 1.784 | 357.7 | 547.8 | 1.007 | 2.560 | -40.39 | 0.475 | 84.1 | 44.3 | -50.4 | 0.398 |
| 4-1070 | 4-1570 | 0.508 | 289.7 | 59.2 | 24.59 | 1.196 | 91.1 | 0.439 | 1.795 | 356.3 | 550.3 | 1.006 | 2.583 | -28.12 | 0.476 | 82.1 | 40.8 | -47.4 | 0.302 |
| 4-1070 | 4-1590 | 0.394 | 300.2 | 49.1 | 17.61 | 1.197 | 91.7 | 0.443 | 1.807 | 354.5 | 552.7 | 1.006 | 2.608 | -21.41 | 0.478 | 80.3 | 39.2 | -42.4 | 0.255 |
| 4-1070 | 4-1610 | 0.330 | 308.2 | 40.0 | 13.24 | 1.199 | 92.4 | 0.448 | 1.819 | 352.3 | 554.9 | 1.004 | 2.634 | -17.31 | 0.480 | 78.5 | 39.1 | -37.2 | 0.231 |
| 4-1070 | 4-1630 | 0.294 | 315.2 | 32.0 | 10.23 | 1.200 | 93.1 | 0.453 | 1.832 | 350.0 | 557.0 | 1.002 | 2.661 | -14.58 | 0.483 | 76.9 | 40.1 | -32.6 | 0.220 |
| 4-1070 | 4-1650 | 0.274 | 321.6 | 25.0 | 8.03 | 1.202 | 93.9 | 0.458 | 1.844 | 347.6 | 559.0 | 1.000 | 2.689 | -12.65 | 0.486 | 75.3 | 41.7 | -28.7 | 0.214 |
| 4-1070 | 4-1670 | 0.265 | 327.7 | 18.9 | 6.32 | 1.203 | 94.7 | 0.464 | 1.857 | 345.1 | 560.9 | 0.996 | 2.718 | -11.23 | 0.489 | 73.7 | 43.8 | -25.4 | 0.213 |
| 4-1070 | 4-1690 | 0.263 | 333.4 | 14.0 | 4.95 | 1.205 | 95.6 | 0.470 | 1.870 | 342.4 | 562.8 | 0.992 | 2.748 | -10.15 | 0.493 | 72.2 | 46.3 | -22.7 | 0.215 |
| 4-1070 | 4-1710 | 0.266 | 338.8 | 9.9 | 3.81 | 1.206 | 96.5 | 0.476 | 1.883 | 339.7 | 564.5 | 0.987 | 2.780 | -9.31 | 0.498 | 70.8 | 49.0 | -20.4 | 0.218 |
| 4-1070 | 4-1730 | 0.273 | 343.9 | 6.7 | 2.84 | 1.208 | 97.5 | 0.483 | 1.896 | 336.8 | 566.2 | 0.981 | 2.812 | -8.65 | 0.502 | 69.4 | 52.0 | -18.6 | 0.222 |
| 4-1070 | 4-1750 | 0.283 | 348.6 | 4.2 | 1.98 | 1.209 | 98.5 | 0.490 | 1.909 | 333.9 | 567.9 | 0.973 | 2.845 | -8.12 | 0.507 | 68.0 | 55.2 | -17.0 | 0.227 |
| 4-1070 | 4-1770 | 0.296 | 353.1 | 2.4 | 1.22 | 1.211 | 99.6 | 0.498 | 1.922 | 330.9 | 569.4 | 0.985 | 2.879 | -7.69 | 0.513 | 66.6 | 58.6 | -15.7 | 0.234 |
| 4-1070 | 4-1790 | 0.312 | 357.3 | 1.0 | 0.52 | 1.212 | 100.7 | 0.507 | 1.935 | 327.8 | 570.9 | 0.955 | 2.915 | -7.35 | 0.519 | 65.3 | 62.2 | -14.5 | 0.241 |
| 4-1070 | 4-1810 | 0.329 | 1.3 | 0.1 | -0.12 | 1.214 | 101.9 | 0.516 | 1.948 | 324.5 | 572.3 | 0.943 | 2.952 | -7.08 | 0.525 | 64.0 | 65.9 | -13.5 | 0.248 |
| 4-1070 | 4-1830 | 0.349 | 5.0 | -0.6 | -0.73 | 1.215 | 103.2 | 0.525 | 1.960 | 321.2 | 573.6 | 0.930 | 2.990 | -6.88 | 0.531 | 62.7 | 69.7 | -12.7 | 0.257 |
| 4-1080 | 4-1180 | 0.567 | 314.1 | -25.5 | -2.87 | 1.552 | 86.7 | 1.429 | -2.347 | 5.6 | 86.1 | --- | --- | 6.07 | 1.151 | 142.4 | 54.9 | 4.9 | 0.868 |
| 4-1080 | 4-1200 | 0.447 | 311.0 | -29.8 | -3.51 | 1.426 | 85.9 | 1.052 | 19.288 | 8.0 | 94.4 | --- | --- | 6.00 | 0.971 | 138.8 | 58.4 | 5.6 | 0.685 |
| 4-1080 | 4-1220 | 0.374 | 306.7 | -34.6 | -4.13 | 1.346 | 85.0 | 0.829 | 5.849 | 10.9 | 103.3 | --- | --- | 5.99 | 0.845 | 134.9 | 57.6 | 6.5 | 0.553 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1080 | 4-1240 | 0.331 | 301.8 | -39.5 | -4.75 | 1.292 | 84.3 | 0.690 | 3.213 | 14.1 | 112.3 | --- | --- | 6.05 | 0.752 | 130.8 | 58.5 | 7.6 | 0.453 |
| 4-1080 | 4-1260 | 0.306 | 296.8 | -44.0 | -5.37 | 1.257 | 83.6 | 0.600 | 2.484 | 17.1 | 121.0 | --- | --- | 6.17 | 0.683 | 126.7 | 58.9 | 9.0 | 0.376 |
| 4-1080 | 4-1280 | 0.292 | 292.4 | -48.2 | -6.01 | 1.232 | 83.1 | 0.542 | 2.159 | 19.7 | 129.2 | --- | --- | 6.35 | 0.632 | 122.6 | 58.6 | 10.7 | 0.317 |
| 4-1080 | 4-1300 | 0.286 | 288.8 | -52.0 | -6.69 | 1.216 | 82.8 | 0.503 | 1.984 | 21.7 | 136.8 | --- | --- | 6.61 | 0.592 | 118.6 | 57.6 | 12.8 | 0.271 |
| 4-1080 | 4-1320 | 0.285 | 286.3 | -55.6 | -7.42 | 1.204 | 82.6 | 0.477 | 1.882 | 23.1 | 143.6 | --- | --- | 6.95 | 0.562 | 114.7 | 55.8 | 15.2 | 0.235 |
| 4-1080 | 4-1340 | 0.288 | 284.9 | -59.1 | -8.22 | 1.197 | 82.5 | 0.460 | 1.819 | 23.9 | 149.7 | --- | --- | 7.39 | 0.539 | 111.0 | 53.3 | 18.1 | 0.209 |
| 4-1080 | 4-1360 | 0.293 | 284.5 | -62.8 | -9.12 | 1.192 | 82.6 | 0.448 | 1.780 | 24.2 | 155.2 | --- | --- | 7.95 | 0.522 | 107.6 | 50.0 | 21.2 | 0.190 |
| 4-1080 | 4-1380 | 0.301 | 285.3 | -66.7 | -10.16 | 1.188 | 82.7 | 0.441 | 1.757 | 23.9 | 160.1 | --- | --- | 8.68 | 0.508 | 104.3 | 46.3 | 24.5 | 0.179 |
| 4-1080 | 4-1400 | 0.313 | 287.4 | -70.8 | -11.39 | 1.187 | 83.0 | 0.436 | 1.744 | 23.3 | 164.6 | --- | --- | 9.59 | 0.498 | 101.3 | 42.5 | 27.8 | 0.174 |
| 4-1080 | 4-1420 | 0.331 | 291.4 | -75.4 | -12.90 | 1.186 | 83.3 | 0.433 | 1.739 | 22.4 | 168.6 | --- | --- | 10.81 | 0.490 | 98.5 | 39.0 | 31.3 | 0.175 |
| 4-1080 | 4-1440 | 0.356 | 299.5 | -80.4 | -14.83 | 1.186 | 83.7 | 0.431 | 1.738 | 21.2 | 172.3 | --- | --- | 12.46 | 0.484 | 95.8 | 36.1 | 34.8 | 0.182 |
| 4-1080 | 4-1460 | 0.394 | 326.1 | -85.6 | -17.42 | 1.186 | 84.1 | 0.431 | 1.742 | 19.8 | 175.6 | --- | --- | 14.78 | 0.480 | 93.3 | 34.1 | 38.5 | 0.196 |
| 4-1080 | 4-1480 | 0.452 | 66.8 | -85.5 | -21.13 | 1.187 | 84.5 | 0.431 | 1.748 | 18.3 | 178.8 | --- | --- | 18.23 | 0.477 | 90.9 | 33.5 | 42.6 | 0.221 |
| 4-1080 | 4-1500 | 0.548 | 97.2 | -78.1 | -26.94 | 1.188 | 85.0 | 0.432 | 1.756 | 16.7 | 181.7 | --- | 2.515 | 23.78 | 0.475 | 88.7 | 34.6 | 46.7 | 0.263 |
| 4-1080 | 4-1520 | 0.723 | 109.2 | -67.8 | -37.19 | 1.190 | 85.4 | 0.434 | 1.766 | 15.4 | 184.5 | --- | 2.533 | 33.77 | 0.475 | 86.5 | 38.5 | 50.0 | 0.344 |
| 4-1080 | 4-1540 | 1.073 | 119.0 | -52.3 | -58.00 | 1.191 | 85.5 | 0.437 | 1.776 | 14.7 | 187.3 | --- | 2.553 | 54.34 | 0.475 | 84.4 | 46.5 | 48.8 | 0.510 |
| 4-1080 | 4-1580 | 0.877 | 243.0 | 71.7 | 46.17 | 1.194 | 89.0 | 0.440 | 1.800 | 3.2 | 191.0 | --- | 2.592 | -50.32 | 0.477 | 81.6 | 51.9 | -49.4 | 0.478 |
| 4-1080 | 4-1600 | 0.561 | 280.7 | 61.5 | 27.77 | 1.196 | 89.4 | 0.443 | 1.813 | 2.1 | 193.4 | --- | 2.617 | -32.16 | 0.479 | 79.8 | 46.3 | -48.3 | 0.336 |
| 4-1080 | 4-1620 | 0.407 | 296.1 | 50.3 | 18.53 | 1.197 | 89.9 | 0.447 | 1.826 | 0.2 | 195.6 | --- | 2.642 | -20.16 | 0.481 | 78.1 | 43.7 | -43.1 | 0.271 |
| 4-1080 | 4-1640 | 0.327 | 306.3 | 40.2 | 13.18 | 1.199 | 90.6 | 0.451 | 1.839 | 358.0 | 557.7 | 1.009 | 2.669 | -18.05 | 0.484 | 76.5 | 43.4 | -37.4 | 0.240 |
| 4-1080 | 4-1660 | 0.283 | 314.7 | 31.1 | 9.71 | 1.201 | 91.4 | 0.456 | 1.852 | 355.6 | 559.6 | 1.008 | 2.698 | -14.83 | 0.488 | 75.0 | 44.4 | -32.4 | 0.225 |
| 4-1080 | 4-1680 | 0.259 | 322.2 | 23.2 | 7.26 | 1.202 | 92.2 | 0.460 | 1.866 | 353.0 | 561.5 | 1.007 | 2.724 | -12.63 | 0.492 | 73.5 | 46.2 | -28.1 | 0.219 |
| 4-1080 | 4-1700 | 0.248 | 329.1 | 16.7 | 5.43 | 1.204 | 93.0 | 0.465 | 1.879 | 350.4 | 563.4 | 1.005 | 2.753 | -11.05 | 0.496 | 72.1 | 48.5 | -24.7 | 0.217 |
| 4-1080 | 4-1720 | 0.245 | 335.7 | 11.3 | 3.99 | 1.205 | 93.9 | 0.471 | 1.893 | 347.7 | 565.1 | 1.002 | 2.783 | -9.88 | 0.501 | 70.8 | 51.2 | -21.9 | 0.217 |
| 4-1080 | 4-1740 | 0.248 | 341.8 | 7.2 | 2.81 | 1.207 | 94.9 | 0.476 | 1.906 | 344.9 | 566.8 | 0.998 | 2.814 | -8.97 | 0.506 | 69.5 | 54.1 | -19.6 | 0.220 |
| 4-1080 | 4-1760 | 0.254 | 347.5 | 4.0 | 1.82 | 1.208 | 95.9 | 0.482 | 1.919 | 342.0 | 568.5 | 0.993 | 2.845 | -8.26 | 0.511 | 68.2 | 57.3 | -17.7 | 0.224 |
| 4-1080 | 4-1780 | 0.264 | 352.9 | 1.7 | 0.97 | 1.210 | 96.9 | 0.489 | 1.932 | 339.0 | 570.1 | 0.987 | 2.877 | -7.70 | 0.517 | 67.0 | 60.7 | -16.2 | 0.229 |
| 4-1080 | 4-1800 | 0.277 | 357.8 | 0.1 | 0.21 | 1.211 | 98.0 | 0.496 | 1.945 | 335.9 | 571.6 | 0.980 | 2.910 | -7.25 | 0.523 | 65.8 | 64.2 | -14.9 | 0.235 |
| 4-1080 | 4-1820 | 0.292 | 2.5 | -1.0 | -0.47 | 1.213 | 99.1 | 0.504 | 1.958 | 332.7 | 573.0 | 0.972 | 2.945 | -6.89 | 0.529 | 64.6 | 67.9 | -13.7 | 0.242 |
| 4-1080 | 4-1840 | 0.308 | 6.8 | -1.7 | -1.09 | 1.214 | 100.3 | 0.512 | 1.971 | 329.3 | 574.4 | 0.962 | 2.981 | -6.60 | 0.536 | 63.4 | 71.8 | -12.8 | 0.249 |
| 4-1090 | 4-1190 | 0.550 | 307.9 | -28.2 | -3.30 | 1.507 | 81.3 | 1.291 | -3.410 | 15.5 | 89.3 | --- | --- | 5.47 | 1.090 | 141.8 | 56.3 | 4.5 | 0.810 |
| 4-1090 | 4-1210 | 0.447 | 303.1 | -32.3 | -3.88 | 1.393 | 80.9 | 0.964 | 27.169 | 18.6 | 98.4 | --- | --- | 5.34 | 0.922 | 138.0 | 57.4 | 5.2 | 0.639 |
| 4-1090 | 4-1230 | 0.387 | 297.6 | -36.4 | -4.43 | 1.321 | 80.4 | 0.771 | 4.284 | 22.2 | 107.8 | --- | --- | 5.27 | 0.804 | 133.9 | 58.3 | 5.9 | 0.515 |
| 4-1090 | 4-1250 | 0.353 | 292.1 | -40.0 | -4.96 | 1.273 | 79.9 | 0.653 | 2.804 | 25.7 | 117.2 | --- | --- | 5.25 | 0.719 | 129.6 | 58.7 | 6.9 | 0.422 |
| 4-1090 | 4-1270 | 0.333 | 287.2 | -43.2 | -5.49 | 1.241 | 79.5 | 0.579 | 2.292 | 28.9 | 126.0 | --- | --- | 5.29 | 0.655 | 125.4 | 58.6 | 8.1 | 0.351 |
| 4-1090 | 4-1290 | 0.322 | 283.4 | -45.9 | -6.02 | 1.220 | 79.2 | 0.531 | 2.046 | 31.4 | 134.1 | --- | --- | 5.38 | 0.608 | 121.1 | 57.8 | 9.5 | 0.296 |
| 4-1090 | 4-1310 | 0.316 | 280.6 | -48.5 | -6.56 | 1.206 | 79.1 | 0.499 | 1.910 | 33.1 | 141.3 | --- | --- | 5.53 | 0.572 | 117.1 | 56.3 | 11.2 | 0.253 |
| 4-1090 | 4-1330 | 0.314 | 278.9 | -50.9 | -7.13 | 1.196 | 79.1 | 0.478 | 1.829 | 34.2 | 147.8 | --- | --- | 5.73 | 0.545 | 113.2 | 54.0 | 13.1 | 0.221 |
| 4-1090 | 4-1350 | 0.313 | 278.1 | -53.5 | -7.74 | 1.190 | 79.2 | 0.464 | 1.780 | 34.6 | 153.5 | --- | --- | 6.00 | 0.525 | 109.5 | 51.0 | 15.2 | 0.197 |
| 4-1090 | 4-1370 | 0.314 | 278.1 | -56.1 | -8.40 | 1.186 | 79.4 | 0.454 | 1.751 | 34.5 | 158.6 | --- | --- | 6.35 | 0.509 | 106.0 | 47.5 | 17.5 | 0.180 |
| 4-1090 | 4-1390 | 0.317 | 278.9 | -59.0 | -9.14 | 1.184 | 79.7 | 0.448 | 1.735 | 33.9 | 163.1 | --- | --- | 6.78 | 0.498 | 102.8 | 43.8 | 19.8 | 0.169 |
| 4-1090 | 4-1410 | 0.321 | 280.4 | -62.2 | -9.97 | 1.182 | 80.0 | 0.443 | 1.727 | 33.0 | 167.2 | --- | --- | 7.34 | 0.489 | 99.8 | 40.2 | 22.1 | 0.164 |
| 4-1090 | 4-1430 | 0.328 | 282.6 | -65.6 | -10.95 | 1.182 | 80.4 | 0.441 | 1.726 | 31.7 | 170.9 | --- | --- | 8.06 | 0.483 | 97.0 | 37.0 | 24.4 | 0.162 |
| 4-1090 | 4-1450 | 0.338 | 285.8 | -69.5 | -12.13 | 1.183 | 80.9 | 0.439 | 1.729 | 30.2 | 174.3 | --- | --- | 8.99 | 0.478 | 94.4 | 34.4 | 26.8 | 0.165 |
| 4-1090 | 4-1470 | 0.354 | 290.4 | -73.9 | -13.61 | 1.184 | 81.4 | 0.438 | 1.735 | 28.5 | 177.5 | --- | --- | 10.22 | 0.475 | 92.0 | 32.7 | 29.5 | 0.171 |
| 4-1090 | 4-1490 | 0.378 | 297.9 | -78.9 | -15.54 | 1.185 | 81.9 | 0.439 | 1.743 | 26.7 | 180.4 | --- | 2.508 | 11.91 | 0.473 | 89.7 | 31.9 | 32.5 | 0.182 |
| 4-1090 | 4-1510 | 0.415 | 316.3 | -84.4 | -18.20 | 1.186 | 82.5 | 0.439 | 1.753 | 24.8 | 183.1 | --- | 2.523 | 14.35 | 0.472 | 87.6 | 32.2 | 36.2 | 0.198 |
| 4-1090 | 4-1530 | 0.475 | 59.3 | -86.6 | -22.18 | 1.188 | 83.1 | 0.440 | 1.765 | 22.8 | 185.7 | --- | 2.542 | 18.10 | 0.472 | 85.6 | 33.7 | 40.6 | 0.225 |
| 4-1090 | 4-1550 | 0.583 | 103.2 | -78.8 | -28.78 | 1.189 | 83.6 | 0.442 | 1.777 | 20.9 | 188.1 | --- | 2.563 | 24.48 | 0.473 | 83.6 | 37.2 | 45.5 | 0.273 |
| 4-1090 | 4-1570 | 0.800 | 117.6 | -66.8 | -41.56 | 1.191 | 84.1 | 0.444 | 1.790 | 19.3 | 190.5 | --- | 2.585 | 37.05 | 0.475 | 81.8 | 44.5 | 49.4 | 0.373 |
| 4-1090 | 4-1590 | 1.270 | 130.0 | -47.3 | -70.50 | 1.193 | 84.2 | 0.448 | 1.803 | 18.7 | 193.0 | --- | 2.611 | 65.78 | 0.477 | 79.9 | 56.9 | 45.6 | 0.599 |
| 4-1090 | 4-1610 | 1.140 | 211.6 | 66.8 | 62.12 | 1.194 | 87.4 | 0.445 | 1.817 | 8.3 | 194.0 | --- | 2.625 | -67.05 | 0.479 | 79.3 | 61.7 | -45.5 | 0.608 |
| 4-1090 | 4-1630 | 0.646 | 268.9 | 62.8 | 32.62 | 1.196 | 87.6 | 0.449 | 1.831 | 7.7 | 196.3 | --- | 2.652 | -37.77 | 0.482 | 77.5 | 53.3 | -48.9 | 0.382 |
| 4-1090 | 4-1650 | 0.426 | 292.2 | 50.7 | 19.61 | 1.198 | 88.2 | 0.452 | 1.844 | 5.9 | 198.4 | --- | 2.679 | -24.97 | 0.486 | 76.0 | 48.7 | -43.7 | 0.288 |
| 4-1090 | 4-1670 | 0.324 | 305.1 | 38.8 | 12.93 | 1.200 | 88.9 | 0.456 | 1.858 | 3.6 | 200.3 | --- | 2.708 | -18.50 | 0.490 | 74.5 | 47.9 | -37.1 | 0.248 |
| 4-1090 | 4-1690 | 0.272 | 314.8 | 28.3 | 8.91 | 1.201 | 89.7 | 0.460 | 1.872 | 1.1 | 202.2 | --- | 2.733 | -14.70 | 0.494 | 73.2 | 48.8 | -31.5 | 0.230 |
| 4-1090 | 4-1710 | 0.246 | 323.2 | 19.5 | 6.23 | 1.203 | 90.5 | 0.464 | 1.886 | 358.4 | 564.0 | 1.012 | 2.761 | -12.23 | 0.498 | 71.9 | 50.8 | -26.9 | 0.222 |
| 4-1090 | 4-1730 | 0.234 | 330.9 | 12.3 | 4.30 | 1.205 | 91.4 | 0.468 | 1.900 | 355.7 | 565.8 | 1.011 | 2.790 | -10.52 | 0.503 | 70.6 | 53.3 | -23.3 | 0.219 |
| 4-1090 | 4-1750 | 0.231 | 338.1 | 6.8 | 2.82 | 1.206 | 92.3 | 0.473 | 1.914 | 352.9 | 567.5 | 1.009 | 2.819 | -9.27 | 0.509 | 69.4 | 56.2 | -20.4 | 0.220 |
| 4-1090 | 4-1770 | 0.234 | 344.8 | 2.7 | 1.65 | 1.208 | 93.2 | 0.478 | 1.928 | 350.0 | 569.1 | 1.007 | 2.848 | -8.33 | 0.514 | 68.2 | 59.3 | -18.2 | 0.222 |
| 4-1090 | 4-1790 | 0.240 | 351.1 | -0.2 | 0.67 | 1.209 | 94.2 | 0.483 | 1.941 | 347.0 | 570.7 | 1.003 | 2.879 | -7.60 | 0.520 | 67.1 | 62.7 | -16.3 | 0.226 |
| 4-1090 | 4-1810 | 0.250 | 356.9 | -2.1 | -0.15 | 1.211 | 95.3 | 0.489 | 1.954 | 343.9 | 572.3 | 0.999 | 2.910 | -7.03 | 0.527 | 66.0 | 66.2 | -14.8 | 0.231 |
| 4-1090 | 4-1830 | 0.261 | 2.4 | -3.4 | -0.87 | 1.212 | 96.4 | 0.495 | 1.968 | 340.7 | 573.8 | 0.993 | 2.942 | -6.57 | 0.533 | 64.9 | 69.9 | -13.5 | 0.236 |
| 4-1090 | 4-1850 | 0.276 | 7.5 | -4.0 | -1.52 | 1.213 | 97.5 | 0.502 | 1.981 | 337.4 | 575.2 | 0.986 | 2.976 | -6.21 | 0.540 | 63.8 | 73.7 | -12.5 | 0.243 |
| 4-1100 | 4-1200 | 0.562 | 300.7 | -30.3 | -3.80 | 1.462 | 75.6 | 1.155 | -6.145 | 26.9 | 94.1 | --- | --- | 4.74 | 1.027 | 141.5 | 56.8 | 4.0 | 0.756 |
| 4-1100 | 4-1220 | 0.474 | 295.1 | -33.7 | -4.31 | 1.359 | 75.6 | 0.881 | 7.948 | 30.9 | 104.0 | --- | --- | 4.57 | 0.871 | 137.4 | 57.6 | 4.5 | 0.596 |
| 4-1100 | 4-1240 | 0.424 | 289.5 | -36.7 | -4.79 | 1.295 | 75.4 | 0.722 | 3.366 | 35.0 | 113.9 | --- | --- | 4.45 | 0.762 | 133.0 | 58.0 | 5.2 | 0.480 |
| 4-1100 | 4-1260 | 0.395 | 284.8 | -39.1 | -5.23 | 1.253 | 75.3 | 0.625 | 2.477 | 38.7 | 123.4 | --- | --- | 4.39 | 0.683 | 128.5 | 57.9 | 6.0 | 0.394 |
| 4-1100 | 4-1280 | 0.378 | 281.1 | -41.1 | -5.67 | 1.225 | 75.2 | 0.565 | 2.119 | 41.7 | 132.0 | --- | --- | 4.37 | 0.625 | 124.1 | 57.2 | 6.9 | 0.328 |
| 4-1100 | 4-1300 | 0.367 | 278.5 | -43.0 | -6.09 | 1.207 | 75.2 | 0.527 | 1.937 | 43.8 | 139.7 | --- | --- | 4.40 | 0.582 | 119.7 | 55.9 | 8.0 | 0.277 |
| 4-1100 | 4-1320 | 0.360 | 276.8 | -44.7 | -6.52 | 1.195 | 75.3 | 0.502 | 1.834 | 45.1 | 146.5 | --- | --- | 4.46 | 0.550 | 115.5 | 53.8 | 9.3 | 0.239 |
| 4-1100 | 4-1340 | 0.355 | 276.1 | -46.4 | -6.95 | 1.187 | 75.5 | 0.485 | 1.774 | 45.7 | 152.4 | --- | --- | 4.56 | 0.526 | 111.5 | 51.0 | 10.7 | 0.210 |
| 4-1100 | 4-1360 | 0.352 | 276.0 | -48.2 | -7.41 | 1.182 | 75.7 | 0.473 | 1.738 | 45.7 | 157.6 | --- | --- | 4.72 | 0.508 | 107.8 | 47.6 | 12.2 | 0.189 |
| 4-1100 | 4-1380 | 0.349 | 276.5 | -50.1 | -7.89 | 1.180 | 76.1 | 0.465 | 1.718 | 45.1 | 162.2 | --- | --- | 4.91 | 0.495 | 104.3 | 44.0 | 13.7 | 0.174 |
| 4-1100 | 4-1400 | 0.347 | 277.6 | -52.2 | -8.41 | 1.178 | 76.5 | 0.460 | 1.709 | 44.1 | 166.4 | --- | --- | 5.17 | 0.486 | 101.1 | 40.4 | 15.1 | 0.165 |
| 4-1100 | 4-1420 | 0.345 | 279.1 | -54.5 | -8.98 | 1.178 | 76.9 | 0.456 | 1.707 | 42.8 | 170.1 | --- | --- | 5.50 | 0.479 | 98.1 | 37.1 | 16.5 | 0.160 |
| 4-1100 | 4-1440 | 0.345 | 281.2 | -57.0 | -9.62 | 1.178 | 77.5 | 0.453 | 1.710 | 41.2 | 173.4 | --- | --- | 5.91 | 0.474 | 95.4 | 34.4 | 17.9 | 0.158 |
| 4-1100 | 4-1460 | 0.347 | 283.7 | -59.8 | -10.36 | 1.179 | 78.0 | 0.451 | 1.716 | 39.4 | 176.5 | --- | --- | 6.43 | 0.471 | 92.8 | 32.4 | 19.4 | 0.159 |
| 4-1100 | 4-1480 | 0.351 | 286.9 | -62.9 | -11.24 | 1.181 | 78.6 | 0.450 | 1.725 | 37.5 | 179.4 | --- | --- | 7.10 | 0.469 | 90.5 | 31.1 | 21.0 | 0.162 |
| 4-1100 | 4-1500 | 0.358 | 290.8 | -66.5 | -12.32 | 1.182 | 79.2 | 0.449 | 1.736 | 35.4 | 182.1 | --- | 2.516 | 7.98 | 0.468 | 88.3 | 30.6 | 22.9 | 0.167 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1100 | 4-1520 | 0.370 | 295.9 | -70.6 | -13.70 | 1.184 | 79.9 | 0.449 | 1.748 | 33.2 | 184.6 | --- | 2.533 | 9.16 | 0.468 | 86.2 | 30.9 | 25.2 | 0.175 |
| 4-1100 | 4-1540 | 0.390 | 303.0 | -75.3 | -15.54 | 1.186 | 80.5 | 0.450 | 1.761 | 31.0 | 187.0 | --- | 2.553 | 10.82 | 0.469 | 84.3 | 31.8 | 28.2 | 0.185 |
| 4-1100 | 4-1560 | 0.424 | 316.4 | -80.9 | -18.18 | 1.187 | 81.2 | 0.451 | 1.775 | 28.7 | 189.3 | --- | 2.574 | 13.27 | 0.471 | 82.5 | 33.6 | 32.2 | 0.201 |
| 4-1100 | 4-1580 | 0.485 | 12.4 | -86.3 | -22.31 | 1.189 | 81.9 | 0.452 | 1.789 | 26.4 | 191.5 | --- | 2.597 | 17.22 | 0.473 | 80.8 | 36.6 | 37.4 | 0.228 |
| 4-1100 | 4-1600 | 0.605 | 103.3 | -80.6 | -29.74 | 1.191 | 82.5 | 0.453 | 1.803 | 24.2 | 193.6 | --- | 2.621 | 24.47 | 0.476 | 79.2 | 41.9 | 43.8 | 0.280 |
| 4-1100 | 4-1620 | 0.882 | 125.7 | -66.2 | -46.24 | 1.193 | 83.0 | 0.456 | 1.818 | 22.4 | 195.7 | --- | 2.646 | 40.79 | 0.479 | 77.6 | 52.7 | 48.7 | 0.407 |
| 4-1100 | 4-1660 | 0.798 | 251.7 | 63.0 | 41.40 | 1.197 | 85.9 | 0.456 | 1.848 | 13.1 | 199.1 | --- | 2.690 | -47.20 | 0.486 | 75.3 | 62.5 | -48.7 | 0.459 |
| 4-1100 | 4-1680 | 0.454 | 288.7 | 50.5 | 21.05 | 1.199 | 86.4 | 0.459 | 1.862 | 11.4 | 201.1 | --- | 2.718 | -27.02 | 0.491 | 73.9 | 54.2 | -44.1 | 0.308 |
| 4-1100 | 4-1700 | 0.320 | 305.1 | 36.0 | 12.38 | 1.200 | 87.1 | 0.462 | 1.877 | 9.0 | 202.9 | --- | 2.745 | -18.53 | 0.495 | 72.6 | 52.4 | -36.3 | 0.254 |
| 4-1100 | 4-1720 | 0.262 | 316.1 | 23.4 | 7.75 | 1.202 | 88.0 | 0.465 | 1.892 | 6.4 | 204.7 | --- | 2.772 | -14.07 | 0.500 | 71.4 | 53.3 | -29.7 | 0.232 |
| 4-1100 | 4-1740 | 0.236 | 325.2 | 13.3 | 4.86 | 1.204 | 88.8 | 0.469 | 1.906 | 3.7 | 206.5 | --- | 2.799 | -11.37 | 0.506 | 70.2 | 55.5 | -24.8 | 0.224 |
| 4-1100 | 4-1760 | 0.226 | 333.3 | 5.7 | 2.89 | 1.205 | 89.7 | 0.472 | 1.920 | 0.9 | 208.2 | --- | 2.827 | -9.57 | 0.511 | 69.1 | 58.2 | -21.0 | 0.221 |
| 4-1100 | 4-1780 | 0.223 | 340.9 | 0.3 | 1.43 | 1.207 | 90.7 | 0.476 | 1.934 | 358.0 | 569.8 | 1.013 | 2.855 | -8.31 | 0.517 | 68.0 | 61.3 | -18.2 | 0.222 |
| 4-1100 | 4-1800 | 0.226 | 348.1 | -3.4 | 0.30 | 1.208 | 91.6 | 0.480 | 1.948 | 355.0 | 571.4 | 1.012 | 2.884 | -7.37 | 0.524 | 67.0 | 64.6 | -16.0 | 0.225 |
| 4-1100 | 4-1820 | 0.232 | 354.8 | -5.8 | -0.62 | 1.210 | 92.7 | 0.485 | 1.962 | 351.9 | 573.0 | 1.010 | 2.914 | -6.65 | 0.530 | 66.0 | 68.2 | -14.2 | 0.228 |
| 4-1100 | 4-1840 | 0.241 | 1.0 | -7.2 | -1.38 | 1.211 | 93.7 | 0.490 | 1.976 | 348.7 | 574.5 | 1.007 | 2.944 | -6.10 | 0.537 | 65.0 | 71.9 | -12.8 | 0.233 |
| 4-1100 | 4-1860 | 0.251 | 6.9 | -7.8 | -2.04 | 1.213 | 94.8 | 0.496 | 1.989 | 345.4 | 576.0 | 1.003 | 2.975 | -5.66 | 0.544 | 64.0 | 75.7 | -11.6 | 0.239 |
| 4-1110 | 4-1210 | 0.602 | 294.2 | -31.4 | -4.39 | 1.417 | 69.6 | 1.0332 | 6.963 | 40.2 | 100.8 | --- | --- | 3.87 | 0.962 | 141.5 | 56.5 | 3.3 | 0.707 |
| 4-1110 | 4-1230 | 0.524 | 288.8 | -33.9 | -4.82 | 1.326 | 70.0 | 0.812 | 4.688 | 44.9 | 111.4 | --- | --- | 3.68 | 0.817 | 137.0 | 56.8 | 3.7 | 0.557 |
| 4-1110 | 4-1250 | 0.480 | 284.3 | -35.9 | -5.21 | 1.269 | 70.3 | 0.685 | 2.772 | 49.2 | 121.5 | --- | --- | 3.54 | 0.716 | 132.3 | 56.7 | 4.2 | 0.450 |
| 4-1110 | 4-1270 | 0.453 | 280.9 | -37.5 | -5.57 | 1.232 | 70.5 | 0.610 | 2.214 | 52.7 | 130.7 | --- | --- | 3.45 | 0.644 | 127.5 | 56.1 | 4.8 | 0.370 |
| 4-1110 | 4-1290 | 0.436 | 278.5 | -38.9 | -5.91 | 1.209 | 70.7 | 0.564 | 1.965 | 55.2 | 138.8 | --- | --- | 3.40 | 0.591 | 122.8 | 54.7 | 5.5 | 0.309 |
| 4-1110 | 4-1310 | 0.424 | 277.1 | -40.1 | -6.23 | 1.194 | 70.9 | 0.534 | 1.834 | 56.8 | 145.9 | --- | --- | 3.37 | 0.553 | 118.2 | 52.7 | 6.3 | 0.263 |
| 4-1110 | 4-1330 | 0.415 | 276.4 | -41.3 | -6.55 | 1.184 | 71.3 | 0.514 | 1.760 | 57.4 | 152.0 | --- | --- | 3.38 | 0.525 | 113.8 | 50.0 | 7.1 | 0.229 |
| 4-1110 | 4-1350 | 0.407 | 276.4 | -42.5 | -6.87 | 1.178 | 71.7 | 0.500 | 1.717 | 57.4 | 157.2 | --- | --- | 3.42 | 0.505 | 109.7 | 46.8 | 8.0 | 0.204 |
| 4-1110 | 4-1370 | 0.400 | 276.9 | -43.8 | -7.20 | 1.175 | 72.1 | 0.490 | 1.694 | 56.8 | 161.8 | --- | --- | 3.49 | 0.490 | 105.9 | 43.3 | 8.9 | 0.186 |
| 4-1110 | 4-1390 | 0.394 | 277.8 | -45.2 | -7.53 | 1.173 | 72.6 | 0.483 | 1.683 | 55.7 | 165.9 | --- | --- | 3.60 | 0.479 | 102.4 | 39.8 | 9.8 | 0.173 |
| 4-1110 | 4-1410 | 0.388 | 279.1 | -46.6 | -7.88 | 1.173 | 73.1 | 0.477 | 1.680 | 54.3 | 169.6 | --- | --- | 3.73 | 0.472 | 99.2 | 36.6 | 10.5 | 0.166 |
| 4-1110 | 4-1430 | 0.382 | 280.7 | -48.2 | -8.26 | 1.173 | 73.7 | 0.473 | 1.683 | 52.6 | 172.9 | --- | --- | 3.91 | 0.467 | 96.3 | 33.8 | 11.3 | 0.162 |
| 4-1110 | 4-1450 | 0.377 | 282.7 | -49.9 | -8.67 | 1.174 | 74.3 | 0.470 | 1.690 | 50.7 | 176.0 | --- | --- | 4.13 | 0.464 | 93.6 | 31.7 | 12.0 | 0.160 |
| 4-1110 | 4-1470 | 0.373 | 285.0 | -51.8 | -9.13 | 1.176 | 75.0 | 0.467 | 1.700 | 48.7 | 178.8 | --- | --- | 4.41 | 0.462 | 91.1 | 30.4 | 12.8 | 0.161 |
| 4-1110 | 4-1490 | 0.370 | 287.7 | -53.9 | -9.66 | 1.177 | 75.7 | 0.466 | 1.711 | 46.5 | 181.4 | --- | 2.508 | 4.77 | 0.462 | 88.8 | 29.7 | 13.6 | 0.163 |
| 4-1110 | 4-1510 | 0.368 | 290.8 | -56.2 | -10.27 | 1.179 | 76.4 | 0.464 | 1.725 | 44.2 | 183.8 | --- | 2.526 | 5.22 | 0.462 | 86.7 | 29.6 | 14.7 | 0.166 |
| 4-1110 | 4-1530 | 0.368 | 294.3 | -58.8 | -11.01 | 1.181 | 77.1 | 0.463 | 1.739 | 41.8 | 186.2 | --- | 2.545 | 5.80 | 0.463 | 84.7 | 30.1 | 15.9 | 0.170 |
| 4-1110 | 4-1550 | 0.371 | 298.5 | -61.9 | -11.93 | 1.183 | 77.8 | 0.463 | 1.754 | 39.4 | 188.4 | --- | 2.566 | 6.57 | 0.465 | 82.9 | 31.2 | 17.6 | 0.175 |
| 4-1110 | 4-1570 | 0.378 | 303.5 | -65.5 | -13.12 | 1.186 | 78.5 | 0.463 | 1.769 | 36.9 | 190.5 | --- | 2.588 | 7.62 | 0.468 | 81.2 | 32.7 | 19.8 | 0.181 |
| 4-1110 | 4-1590 | 0.393 | 310.2 | -69.9 | -14.77 | 1.188 | 79.3 | 0.463 | 1.785 | 34.4 | 192.6 | --- | 2.611 | 9.13 | 0.471 | 79.6 | 34.8 | 22.7 | 0.190 |
| 4-1110 | 4-1610 | 0.422 | 320.3 | -75.4 | -17.23 | 1.190 | 80.1 | 0.463 | 1.801 | 31.8 | 194.6 | --- | 2.635 | 11.45 | 0.474 | 78.1 | 37.4 | 26.9 | 0.203 |
| 4-1110 | 4-1630 | 0.479 | 344.8 | -82.2 | -21.34 | 1.192 | 80.8 | 0.464 | 1.817 | 29.3 | 196.5 | --- | 2.660 | 15.42 | 0.478 | 76.6 | 41.2 | 33.0 | 0.227 |
| 4-1110 | 4-1650 | 0.609 | 90.5 | -83.1 | -29.61 | 1.194 | 81.5 | 0.465 | 1.833 | 26.9 | 198.4 | --- | 2.685 | 23.56 | 0.482 | 75.2 | 47.6 | 41.4 | 0.282 |
| 4-1110 | 4-1670 | 0.992 | 135.3 | -65.0 | -52.68 | 1.196 | 82.1 | 0.467 | 1.848 | 25.0 | 200.3 | --- | 2.712 | 46.49 | 0.487 | 73.9 | 63.0 | 48.0 | 0.456 |
| 4-1110 | 4-1690 | 1.138 | 224.1 | 57.7 | 61.82 | 1.198 | 84.3 | 0.464 | 1.864 | 18.1 | 201.7 | --- | 2.729 | -68.15 | 0.491 | 73.2 | 75.8 | -44.6 | 0.622 |
| 4-1110 | 4-1710 | 0.496 | 285.2 | 50.3 | 23.28 | 1.199 | 84.7 | 0.467 | 1.880 | 16.8 | 203.7 | --- | 2.758 | -29.74 | 0.497 | 71.8 | 60.5 | -44.7 | 0.333 |
| 4-1110 | 4-1730 | 0.314 | 307.0 | 31.3 | 11.33 | 1.201 | 85.4 | 0.470 | 1.895 | 14.4 | 205.4 | --- | 2.785 | -17.93 | 0.502 | 70.7 | 56.9 | -34.6 | 0.257 |
| 4-1110 | 4-1750 | 0.254 | 319.2 | 15.5 | 6.02 | 1.203 | 86.3 | 0.472 | 1.910 | 11.7 | 207.1 | --- | 2.812 | -12.76 | 0.508 | 69.6 | 57.8 | -26.8 | 0.233 |
| 4-1110 | 4-1770 | 0.232 | 328.7 | 4.3 | 3.04 | 1.205 | 87.2 | 0.475 | 1.925 | 8.8 | 208.8 | --- | 2.839 | -9.91 | 0.514 | 68.6 | 60.2 | -21.5 | 0.225 |
| 4-1110 | 4-1790 | 0.224 | 337.0 | -3.1 | 1.12 | 1.206 | 88.1 | 0.478 | 1.940 | 5.9 | 210.5 | --- | 2.868 | -8.14 | 0.520 | 67.6 | 63.2 | -17.7 | 0.223 |
| 4-1110 | 4-1810 | 0.223 | 344.6 | -7.9 | -0.23 | 1.208 | 89.1 | 0.481 | 1.954 | 2.9 | 212.1 | --- | 2.893 | -6.93 | 0.527 | 66.7 | 66.5 | -15.1 | 0.224 |
| 4-1110 | 4-1830 | 0.226 | 351.9 | -10.8 | -1.25 | 1.209 | 90.1 | 0.484 | 1.968 | 359.8 | 573.7 | 1.015 | 2.922 | -6.08 | 0.533 | 65.8 | 70.1 | -13.0 | 0.227 |
| 4-1110 | 4-1850 | 0.231 | 358.7 | -12.4 | -2.06 | 1.211 | 91.1 | 0.488 | 1.982 | 356.6 | 575.2 | 1.014 | 2.950 | -5.41 | 0.540 | 64.9 | 73.8 | -11.5 | 0.232 |
| 4-1110 | 4-1870 | 0.238 | 5.1 | -13.0 | -2.72 | 1.212 | 92.2 | 0.493 | 1.996 | 353.3 | 576.8 | 1.013 | 2.979 | -4.91 | 0.548 | 64.0 | 77.7 | -10.3 | 0.237 |
| 4-1120 | 4-1240 | 0.595 | 285.2 | -33.4 | -5.43 | 1.293 | 64.2 | 0.764 | 3.358 | 60.5 | 120.4 | --- | --- | 2.64 | 0.761 | 137.1 | 55.1 | 2.6 | 0.525 |
| 4-1120 | 4-1260 | 0.552 | 282.0 | -34.8 | -5.72 | 1.243 | 64.9 | 0.668 | 2.362 | 64.6 | 130.2 | --- | --- | 2.51 | 0.668 | 131.9 | 54.4 | 2.9 | 0.425 |
| 4-1120 | 4-1280 | 0.524 | 279.9 | -35.8 | -5.98 | 1.212 | 65.4 | 0.611 | 2.002 | 67.4 | 138.7 | --- | --- | 2.41 | 0.602 | 126.7 | 53.0 | 3.3 | 0.351 |
| 4-1120 | 4-1300 | 0.505 | 278.7 | -36.8 | -6.22 | 1.193 | 66.0 | 0.575 | 1.830 | 69.1 | 145.9 | --- | --- | 2.35 | 0.555 | 121.6 | 51.1 | 3.8 | 0.296 |
| 4-1120 | 4-1320 | 0.490 | 278.1 | -37.6 | -6.45 | 1.180 | 66.5 | 0.551 | 1.738 | 69.8 | 152.1 | --- | --- | 2.31 | 0.522 | 116.7 | 48.5 | 4.2 | 0.255 |
| 4-1120 | 4-1340 | 0.477 | 278.2 | -38.5 | -6.67 | 1.173 | 67.1 | 0.535 | 1.688 | 69.7 | 157.4 | --- | --- | 2.29 | 0.498 | 112.1 | 45.4 | 4.7 | 0.225 |
| 4-1120 | 4-1360 | 0.467 | 278.7 | -39.3 | -6.88 | 1.169 | 67.7 | 0.523 | 1.660 | 68.9 | 161.9 | --- | --- | 2.29 | 0.481 | 107.9 | 42.0 | 5.2 | 0.203 |
| 4-1120 | 4-1380 | 0.456 | 279.6 | -40.2 | -7.09 | 1.167 | 68.3 | 0.513 | 1.648 | 67.8 | 165.9 | --- | --- | 2.31 | 0.469 | 104.0 | 38.6 | 5.6 | 0.188 |
| 4-1120 | 4-1400 | 0.447 | 280.8 | -41.2 | -7.30 | 1.166 | 69.0 | 0.506 | 1.645 | 66.2 | 169.5 | --- | --- | 2.35 | 0.462 | 100.4 | 35.5 | 6.0 | 0.178 |
| 4-1120 | 4-1420 | 0.438 | 282.3 | -42.1 | -7.52 | 1.167 | 69.6 | 0.500 | 1.649 | 64.4 | 172.7 | --- | --- | 2.41 | 0.457 | 97.2 | 32.8 | 6.3 | 0.172 |
| 4-1120 | 4-1440 | 0.429 | 284.0 | -43.2 | -7.74 | 1.168 | 70.4 | 0.496 | 1.656 | 62.4 | 175.7 | --- | --- | 2.49 | 0.454 | 94.2 | 30.8 | 6.7 | 0.169 |
| 4-1120 | 4-1460 | 0.420 | 285.9 | -44.3 | -7.99 | 1.170 | 71.1 | 0.492 | 1.667 | 60.2 | 178.4 | --- | --- | 2.60 | 0.452 | 91.6 | 29.4 | 7.0 | 0.168 |
| 4-1120 | 4-1480 | 0.412 | 288.0 | -45.4 | -8.25 | 1.172 | 71.8 | 0.488 | 1.681 | 57.9 | 180.9 | --- | 2.501 | 2.73 | 0.452 | 89.1 | 28.6 | 7.3 | 0.169 |
| 4-1120 | 4-1500 | 0.404 | 290.4 | -46.7 | -8.54 | 1.174 | 72.6 | 0.485 | 1.695 | 55.4 | 183.3 | --- | 2.518 | 2.90 | 0.453 | 86.9 | 28.5 | 7.7 | 0.170 |
| 4-1120 | 4-1520 | 0.396 | 293.0 | -48.1 | -8.86 | 1.176 | 73.4 | 0.483 | 1.711 | 53.0 | 185.6 | --- | 2.538 | 3.11 | 0.455 | 84.8 | 28.9 | 8.2 | 0.172 |
| 4-1120 | 4-1540 | 0.390 | 295.8 | -49.6 | -9.24 | 1.179 | 74.2 | 0.481 | 1.727 | 50.4 | 187.7 | --- | 2.559 | 3.37 | 0.458 | 83.0 | 29.8 | 8.8 | 0.175 |
| 4-1120 | 4-1560 | 0.384 | 299.0 | -51.4 | -9.68 | 1.181 | 75.0 | 0.480 | 1.744 | 47.8 | 189.8 | --- | 2.581 | 3.71 | 0.460 | 81.2 | 31.1 | 9.5 | 0.178 |
| 4-1120 | 4-1580 | 0.380 | 302.6 | -53.4 | -10.23 | 1.184 | 75.8 | 0.478 | 1.762 | 45.2 | 191.8 | --- | 2.604 | 4.15 | 0.464 | 79.6 | 32.8 | 10.5 | 0.181 |
| 4-1120 | 4-1600 | 0.378 | 306.6 | -55.7 | -10.92 | 1.186 | 76.6 | 0.477 | 1.779 | 42.5 | 193.7 | --- | 2.628 | 4.75 | 0.468 | 78.1 | 34.8 | 11.8 | 0.185 |
| 4-1120 | 4-1620 | 0.380 | 311.2 | -58.6 | -11.84 | 1.188 | 77.4 | 0.477 | 1.796 | 39.8 | 195.6 | --- | 2.652 | 5.58 | 0.472 | 76.7 | 37.1 | 13.6 | 0.190 |
| 4-1120 | 4-1640 | 0.387 | 317.0 | -62.3 | -13.16 | 1.190 | 78.2 | 0.476 | 1.813 | 37.1 | 197.4 | --- | 2.677 | 6.80 | 0.476 | 75.3 | 39.8 | 16.2 | 0.196 |
| 4-1120 | 4-1660 | 0.406 | 324.7 | -67.3 | -15.23 | 1.193 | 79.1 | 0.476 | 1.830 | 34.4 | 199.2 | --- | 2.702 | 8.77 | 0.481 | 74.1 | 42.9 | 20.1 | 0.205 |
| 4-1120 | 4-1680 | 0.452 | 338.4 | -74.6 | -18.98 | 1.195 | 79.9 | 0.476 | 1.847 | 31.7 | 201.0 | --- | 2.727 | 12.43 | 0.486 | 72.9 | 46.8 | 26.6 | 0.224 |
| 4-1120 | 4-1700 | 0.588 | 45.0 | -83.9 | -27.97 | 1.197 | 80.7 | 0.477 | 1.864 | 29.1 | 202.8 | --- | 2.753 | 21.33 | 0.492 | 71.8 | 53.7 | 37.9 | 0.276 |
| 4-1120 | 4-1720 | 1.225 | 150.0 | -59.5 | -67.22 | 1.199 | 81.3 | 0.479 | 1.880 | 27.2 | 204.6 | --- | 2.781 | 60.49 | 0.497 | 70.6 | 77.9 | 45.8 | 0.569 |
| 4-1120 | 4-1740 | 0.581 | 279.0 | 51.4 | 27.99 | 1.201 | 82.9 | 0.477 | 1.896 | 22.1 | 206.1 | --- | 2.801 | -34.81 | 0.503 | 69.9 | 68.5 | -45.8 | 0.376 |
| 4-1120 | 4-1760 | 0.303 | 311.7 | 23.5 | 9.29 | 1.202 | 83.7 | 0.479 | 1.912 | 19.6 | 207.8 | --- | 2.827 | -16.20 | 0.509 | 68.8 | 61.1 | -31.4 | 0.255 |
| 4-1120 | 4-1780 | 0.249 | 324.9 | 3.7 | 3.42 | 1.204 | 84.6 | 0.480 | 1.928 | 16.7 | 209.5 | --- | 2.853 | -10.43 | 0.516 | 67.9 | 62.3 | -22.0 | 0.231 |
| 4-1120 | 4-1800 | 0.236 | 334.1 | -7.5 | 0.59 | 1.206 | 85.5 | 0.482 | 1.943 | 13.8 | 211.1 | --- | 2.880 | -7.69 | 0.522 | 67.0 | 65.1 | -16.6 | 0.225 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1120 | 4-1820 | 0.232 | 342.0 | -13.7 | -1.09 | 1.207 | 86.5 | 0.484 | 1.958 | 10.7 | 212.7 | --- | 2.906 | -6.11 | 0.529 | 66.2 | 88.4 | -13.2 | 0.225 |
| 4-1120 | 4-1840 | 0.233 | 349.4 | -17.1 | -2.21 | 1.209 | 87.5 | 0.486 | 1.973 | 7.6 | 214.3 | --- | 2.933 | -5.09 | 0.536 | 65.4 | 72.0 | -10.9 | 0.228 |
| 4-1120 | 4-1860 | 0.235 | 356.3 | -18.8 | -3.02 | 1.211 | 88.6 | 0.489 | 1.987 | 4.4 | 215.9 | --- | 2.960 | -4.38 | 0.544 | 64.6 | 75.8 | -9.3 | 0.231 |
| 4-1120 | 4-1880 | 0.238 | 3.0 | -19.3 | -3.64 | 1.212 | 89.6 | 0.492 | 2.002 | 1.1 | 217.4 | --- | 2.987 | -3.86 | 0.551 | 63.8 | 79.7 | -8.1 | 0.236 |
| 4-1130 | 4-1230 | 0.750 | 287.0 | -31.5 | -6.00 | 1.332 | 56.6 | 0.868 | 5.207 | 72.7 | 120.2 | --- | --- | 1.54 | 0.830 | 143.1 | 53.0 | 1.2 | 0.635 |
| 4-1130 | 4-1250 | 0.679 | 284.0 | -32.7 | -6.19 | 1.261 | 58.1 | 0.743 | 2.647 | 77.2 | 130.5 | --- | --- | 1.42 | 0.704 | 137.6 | 52.3 | 1.3 | 0.502 |
| 4-1130 | 4-1270 | 0.634 | 282.1 | -33.5 | -6.36 | 1.218 | 59.2 | 0.673 | 2.067 | 80.3 | 139.3 | --- | --- | 1.33 | 0.618 | 131.8 | 51.0 | 1.5 | 0.409 |
| 4-1130 | 4-1290 | 0.604 | 281.1 | -34.3 | -6.50 | 1.192 | 60.2 | 0.629 | 1.830 | 82.0 | 146.6 | --- | --- | 1.26 | 0.559 | 126.1 | 49.1 | 1.7 | 0.341 |
| 4-1130 | 4-1310 | 0.581 | 280.7 | -34.9 | -6.63 | 1.176 | 61.1 | 0.601 | 1.713 | 82.6 | 152.7 | --- | --- | 1.21 | 0.517 | 120.5 | 46.6 | 1.9 | 0.291 |
| 4-1130 | 4-1330 | 0.562 | 280.9 | -35.5 | -6.75 | 1.167 | 61.9 | 0.580 | 1.651 | 82.4 | 157.9 | --- | --- | 1.17 | 0.488 | 115.3 | 43.6 | 2.0 | 0.254 |
| 4-1130 | 4-1350 | 0.546 | 281.5 | -36.1 | -6.86 | 1.162 | 62.7 | 0.565 | 1.619 | 81.5 | 162.4 | --- | --- | 1.15 | 0.469 | 110.4 | 40.4 | 2.2 | 0.228 |
| 4-1130 | 4-1370 | 0.532 | 282.4 | -36.7 | -6.96 | 1.159 | 63.5 | 0.554 | 1.605 | 80.1 | 166.3 | --- | --- | 1.14 | 0.455 | 105.9 | 37.1 | 2.4 | 0.210 |
| 4-1130 | 4-1390 | 0.519 | 283.6 | -37.3 | -7.07 | 1.159 | 64.3 | 0.544 | 1.602 | 78.4 | 169.7 | --- | --- | 1.14 | 0.447 | 101.8 | 34.1 | 2.5 | 0.197 |
| 4-1130 | 4-1410 | 0.506 | 285.0 | -37.9 | -7.17 | 1.160 | 65.2 | 0.536 | 1.606 | 76.4 | 172.8 | --- | --- | 1.14 | 0.442 | 98.2 | 31.6 | 2.6 | 0.189 |
| 4-1130 | 4-1430 | 0.494 | 286.5 | -38.5 | -7.27 | 1.161 | 66.0 | 0.529 | 1.615 | 74.2 | 175.6 | --- | --- | 1.16 | 0.440 | 94.9 | 29.6 | 2.8 | 0.184 |
| 4-1130 | 4-1450 | 0.482 | 288.2 | -39.1 | -7.37 | 1.163 | 66.8 | 0.523 | 1.628 | 71.9 | 178.2 | --- | --- | 1.19 | 0.439 | 92.0 | 28.2 | 2.9 | 0.182 |
| 4-1130 | 4-1470 | 0.470 | 290.1 | -39.7 | -7.48 | 1.166 | 67.7 | 0.518 | 1.643 | 69.4 | 180.6 | --- | 2.494 | 1.22 | 0.440 | 89.3 | 27.5 | 3.0 | 0.181 |
| 4-1130 | 4-1490 | 0.459 | 292.1 | -40.4 | -7.60 | 1.168 | 68.5 | 0.514 | 1.659 | 66.9 | 182.9 | --- | 2.511 | 1.27 | 0.441 | 86.9 | 27.4 | 3.1 | 0.181 |
| 4-1130 | 4-1510 | 0.447 | 294.2 | -41.1 | -7.72 | 1.171 | 69.4 | 0.509 | 1.677 | 64.3 | 185.1 | --- | 2.531 | 1.32 | 0.444 | 84.8 | 27.8 | 3.2 | 0.182 |
| 4-1130 | 4-1530 | 0.436 | 296.5 | -41.8 | -7.85 | 1.174 | 70.3 | 0.506 | 1.695 | 61.6 | 187.1 | --- | 2.552 | 1.40 | 0.447 | 82.8 | 28.7 | 3.4 | 0.184 |
| 4-1130 | 4-1550 | 0.426 | 298.9 | -42.6 | -8.00 | 1.176 | 71.1 | 0.503 | 1.713 | 58.9 | 189.1 | --- | 2.575 | 1.49 | 0.451 | 81.0 | 29.9 | 3.6 | 0.185 |
| 4-1130 | 4-1570 | 0.416 | 301.5 | -43.4 | -8.17 | 1.179 | 72.0 | 0.500 | 1.732 | 56.2 | 191.0 | --- | 2.598 | 1.61 | 0.455 | 79.3 | 31.5 | 3.8 | 0.188 |
| 4-1130 | 4-1590 | 0.406 | 304.3 | -44.3 | -8.37 | 1.182 | 72.9 | 0.497 | 1.751 | 53.4 | 192.9 | --- | 2.622 | 1.75 | 0.459 | 77.8 | 33.5 | 4.1 | 0.190 |
| 4-1130 | 4-1610 | 0.397 | 307.3 | -45.3 | -8.61 | 1.184 | 73.7 | 0.495 | 1.770 | 50.7 | 194.7 | --- | 2.647 | 1.94 | 0.464 | 76.4 | 35.6 | 4.6 | 0.192 |
| 4-1130 | 4-1630 | 0.388 | 310.6 | -46.4 | -8.91 | 1.187 | 74.6 | 0.493 | 1.789 | 47.9 | 196.5 | --- | 2.671 | 2.19 | 0.469 | 75.1 | 38.0 | 5.1 | 0.195 |
| 4-1130 | 4-1650 | 0.381 | 314.1 | -47.8 | -9.30 | 1.189 | 75.5 | 0.492 | 1.807 | 45.1 | 198.3 | --- | 2.696 | 2.53 | 0.474 | 73.8 | 40.6 | 5.8 | 0.197 |
| 4-1130 | 4-1670 | 0.376 | 318.1 | -49.6 | -9.83 | 1.191 | 76.4 | 0.491 | 1.825 | 42.2 | 200.0 | --- | 2.721 | 3.01 | 0.480 | 72.7 | 43.4 | 6.9 | 0.200 |
| 4-1130 | 4-1690 | 0.374 | 322.7 | -51.9 | -10.62 | 1.194 | 77.3 | 0.490 | 1.843 | 39.4 | 201.7 | --- | 2.746 | 3.75 | 0.485 | 71.6 | 46.4 | 8.5 | 0.204 |
| 4-1130 | 4-1710 | 0.379 | 328.4 | -55.6 | -11.93 | 1.196 | 78.2 | 0.489 | 1.861 | 36.5 | 203.4 | --- | 2.771 | 5.02 | 0.491 | 70.6 | 49.6 | 11.2 | 0.209 |
| 4-1130 | 4-1730 | 0.403 | 336.9 | -62.0 | -14.63 | 1.198 | 79.1 | 0.489 | 1.879 | 33.6 | 205.1 | --- | 2.796 | 7.67 | 0.497 | 69.6 | 53.2 | 16.6 | 0.218 |
| 4-1130 | 4-1750 | 0.522 | 2.9 | -76.8 | -23.34 | 1.200 | 80.0 | 0.489 | 1.896 | 30.8 | 206.8 | --- | 2.822 | 18.34 | 0.504 | 68.7 | 59.5 | 30.8 | 0.258 |
| 4-1130 | 4-1770 | 0.956 | 249.4 | 52.4 | 50.16 | 1.202 | 81.2 | 0.487 | 1.912 | 27.0 | 208.4 | --- | 2.844 | -57.20 | 0.510 | 67.9 | 86.1 | -46.1 | 0.552 |
| 4-1130 | 4-1790 | 0.282 | 321.3 | 7.0 | 4.87 | 1.204 | 82.0 | 0.489 | 1.929 | 24.5 | 210.0 | --- | 2.871 | -11.96 | 0.517 | 67.0 | 64.7 | -24.0 | 0.243 |
| 4-1130 | 4-1810 | 0.258 | 333.8 | -14.1 | -0.65 | 1.205 | 83.0 | 0.489 | 1.945 | 21.5 | 211.7 | --- | 2.896 | -6.49 | 0.524 | 66.2 | 66.8 | -13.8 | 0.227 |
| 4-1130 | 4-1830 | 0.256 | 341.8 | -21.7 | -2.74 | 1.207 | 83.9 | 0.490 | 1.961 | 18.5 | 213.3 | --- | 2.922 | -4.45 | 0.531 | 65.5 | 70.2 | -9.5 | 0.227 |
| 4-1130 | 4-1850 | 0.255 | 348.7 | -25.0 | -3.84 | 1.209 | 85.0 | 0.492 | 1.976 | 15.3 | 214.9 | --- | 2.947 | -3.40 | 0.539 | 64.8 | 73.9 | -7.2 | 0.229 |
| 4-1130 | 4-1870 | 0.254 | 355.1 | -26.3 | -4.53 | 1.210 | 86.0 | 0.493 | 1.991 | 12.1 | 216.5 | --- | 2.973 | -2.76 | 0.546 | 64.1 | 77.7 | -5.8 | 0.233 |
| 4-1130 | 4-1890 | 0.253 | 1.4 | -26.4 | -5.01 | 1.212 | 87.1 | 0.495 | 2.006 | 8.8 | 218.0 | --- | 2.999 | -2.93 | 0.554 | 63.4 | 81.7 | -4.9 | 0.237 |
| 4-1140 | 4-1240 | 0.848 | 286.5 | -31.0 | -7.18 | 1.294 | 49.7 | 0.841 | 3.431 | 90.7 | 131.7 | --- | --- | -0.06 | 0.765 | 144.9 | 50.0 | -0.0 | 0.616 |
| 4-1140 | 4-1260 | 0.774 | 284.8 | -31.8 | -7.17 | 1.231 | 51.7 | 0.751 | 2.214 | 93.9 | 140.6 | --- | --- | -0.06 | 0.646 | 138.7 | 48.7 | -0.0 | 0.490 |
| 4-1140 | 4-1280 | 0.725 | 284.0 | -32.4 | -7.16 | 1.194 | 53.3 | 0.698 | 1.849 | 95.5 | 147.9 | --- | --- | -0.05 | 0.567 | 132.2 | 48.9 | -0.1 | 0.403 |
| 4-1140 | 4-1300 | 0.690 | 283.8 | -32.8 | -7.16 | 1.173 | 54.7 | 0.663 | 1.690 | 95.9 | 153.9 | --- | --- | -0.05 | 0.513 | 125.8 | 44.5 | -0.1 | 0.340 |
| 4-1140 | 4-1320 | 0.662 | 284.1 | -33.3 | -7.15 | 1.160 | 55.9 | 0.638 | 1.611 | 95.5 | 158.8 | --- | --- | -0.05 | 0.477 | 119.6 | 41.6 | -0.1 | 0.294 |
| 4-1140 | 4-1340 | 0.640 | 284.8 | -33.7 | -7.15 | 1.154 | 57.1 | 0.619 | 1.573 | 94.3 | 163.1 | --- | --- | -0.04 | 0.452 | 113.9 | 38.6 | -0.1 | 0.262 |
| 4-1140 | 4-1360 | 0.620 | 285.8 | -34.0 | -7.14 | 1.151 | 58.1 | 0.604 | 1.556 | 92.7 | 166.8 | --- | --- | -0.04 | 0.437 | 108.6 | 35.5 | -0.1 | 0.239 |
| 4-1140 | 4-1380 | 0.603 | 287.0 | -34.4 | -7.14 | 1.150 | 59.2 | 0.592 | 1.552 | 90.8 | 170.0 | --- | --- | -0.04 | 0.428 | 103.8 | 32.7 | -0.1 | 0.223 |
| 4-1140 | 4-1400 | 0.586 | 288.4 | -34.7 | -7.14 | 1.151 | 60.2 | 0.581 | 1.557 | 88.6 | 173.0 | --- | --- | -0.04 | 0.423 | 99.6 | 30.3 | -0.1 | 0.212 |
| 4-1140 | 4-1420 | 0.570 | 289.8 | -35.0 | -7.13 | 1.153 | 61.2 | 0.572 | 1.567 | 86.2 | 175.6 | --- | --- | -0.04 | 0.421 | 95.8 | 28.4 | -0.1 | 0.205 |
| 4-1140 | 4-1440 | 0.555 | 291.4 | -35.3 | -7.13 | 1.155 | 62.2 | 0.563 | 1.581 | 83.7 | 178.1 | --- | --- | -0.04 | 0.421 | 92.5 | 27.1 | -0.1 | 0.201 |
| 4-1140 | 4-1460 | 0.540 | 293.1 | -35.6 | -7.13 | 1.158 | 63.2 | 0.556 | 1.598 | 81.1 | 180.4 | --- | 2.488 | -0.04 | 0.423 | 89.5 | 26.5 | -0.1 | 0.199 |
| 4-1140 | 4-1480 | 0.526 | 294.9 | -35.9 | -7.12 | 1.161 | 64.2 | 0.549 | 1.616 | 78.4 | 182.6 | --- | 2.504 | -0.04 | 0.425 | 86.9 | 26.4 | -0.1 | 0.198 |
| 4-1140 | 4-1500 | 0.512 | 296.8 | -36.2 | -7.12 | 1.164 | 65.1 | 0.543 | 1.636 | 75.7 | 184.6 | --- | 2.524 | -0.04 | 0.429 | 84.5 | 26.8 | -0.1 | 0.198 |
| 4-1140 | 4-1520 | 0.498 | 298.8 | -36.5 | -7.11 | 1.168 | 66.1 | 0.538 | 1.656 | 72.9 | 186.6 | --- | 2.546 | -0.04 | 0.433 | 82.4 | 27.7 | -0.1 | 0.198 |
| 4-1140 | 4-1540 | 0.484 | 300.8 | -36.8 | -7.11 | 1.171 | 67.0 | 0.533 | 1.676 | 70.1 | 188.5 | --- | 2.569 | -0.05 | 0.438 | 80.5 | 28.9 | -0.1 | 0.199 |
| 4-1140 | 4-1560 | 0.471 | 302.9 | -37.0 | -7.11 | 1.174 | 68.0 | 0.528 | 1.697 | 67.3 | 190.4 | --- | 2.593 | -0.05 | 0.443 | 78.8 | 30.5 | -0.1 | 0.200 |
| 4-1140 | 4-1580 | 0.458 | 305.1 | -37.3 | -7.10 | 1.177 | 68.9 | 0.524 | 1.718 | 64.4 | 192.2 | --- | 2.618 | -0.05 | 0.448 | 77.3 | 32.4 | -0.1 | 0.202 |
| 4-1140 | 4-1600 | 0.445 | 307.5 | -37.5 | -7.09 | 1.180 | 69.9 | 0.520 | 1.739 | 61.6 | 193.9 | --- | 2.643 | -0.06 | 0.454 | 75.8 | 34.5 | -0.1 | 0.203 |
| 4-1140 | 4-1620 | 0.432 | 309.9 | -37.7 | -7.09 | 1.183 | 70.8 | 0.517 | 1.759 | 58.7 | 195.6 | --- | 2.668 | -0.06 | 0.459 | 74.5 | 36.8 | -0.1 | 0.205 |
| 4-1140 | 4-1640 | 0.419 | 312.4 | -37.9 | -7.08 | 1.185 | 71.7 | 0.514 | 1.779 | 55.8 | 197.3 | --- | 2.693 | -0.07 | 0.465 | 73.3 | 39.4 | -0.1 | 0.206 |
| 4-1140 | 4-1660 | 0.406 | 315.1 | -38.0 | -7.07 | 1.188 | 72.7 | 0.511 | 1.799 | 53.0 | 199.0 | --- | 2.718 | -0.07 | 0.471 | 72.1 | 42.1 | -0.2 | 0.208 |
| 4-1140 | 4-1680 | 0.394 | 317.9 | -38.1 | -7.06 | 1.191 | 73.6 | 0.508 | 1.819 | 50.1 | 200.7 | --- | 2.743 | -0.08 | 0.477 | 71.1 | 44.9 | -0.2 | 0.210 |
| 4-1140 | 4-1700 | 0.382 | 320.8 | -38.1 | -7.04 | 1.193 | 74.6 | 0.506 | 1.838 | 47.2 | 202.3 | --- | 2.768 | -0.10 | 0.484 | 70.1 | 47.9 | -0.2 | 0.212 |
| 4-1140 | 4-1720 | 0.370 | 323.9 | -38.1 | -7.02 | 1.195 | 75.5 | 0.504 | 1.857 | 44.2 | 204.0 | --- | 2.793 | -0.12 | 0.490 | 69.2 | 51.0 | -0.3 | 0.214 |
| 4-1140 | 4-1740 | 0.359 | 327.1 | -38.0 | -6.98 | 1.197 | 76.5 | 0.503 | 1.875 | 41.3 | 205.6 | --- | 2.818 | -0.15 | 0.497 | 68.3 | 54.3 | -0.3 | 0.216 |
| 4-1140 | 4-1760 | 0.347 | 330.5 | -37.7 | -6.92 | 1.200 | 77.4 | 0.501 | 1.893 | 38.3 | 207.3 | --- | 2.842 | -0.22 | 0.504 | 67.5 | 57.6 | -0.5 | 0.218 |
| 4-1140 | 4-1780 | 0.335 | 334.0 | -37.0 | -6.77 | 1.202 | 78.4 | 0.500 | 1.911 | 35.3 | 208.9 | --- | 2.867 | -0.37 | 0.511 | 66.7 | 61.1 | -0.8 | 0.221 |
| 4-1140 | 4-1800 | 0.318 | 336.6 | -33.5 | -5.78 | 1.204 | 79.4 | 0.500 | 1.928 | 32.3 | 210.5 | --- | 2.891 | -1.35 | 0.518 | 66.0 | 64.6 | -2.9 | 0.224 |
| 4-1140 | 4-1820 | 0.324 | 343.7 | -40.1 | -7.93 | 1.205 | 80.4 | 0.499 | 1.945 | 29.2 | 212.1 | --- | 2.916 | 0.80 | 0.526 | 65.3 | 68.3 | 1.7 | 0.227 |
| 4-1140 | 4-1840 | 0.311 | 347.4 | -38.0 | -7.44 | 1.207 | 81.4 | 0.499 | 1.961 | 26.1 | 213.7 | --- | 2.940 | 0.31 | 0.533 | 64.6 | 72.0 | 0.6 | 0.230 |
| 4-1140 | 4-1860 | 0.302 | 351.9 | -36.9 | -7.32 | 1.209 | 82.4 | 0.499 | 1.977 | 22.9 | 215.4 | --- | 2.965 | 0.19 | 0.541 | 64.0 | 75.9 | 0.4 | 0.233 |
| 4-1140 | 4-1880 | 0.293 | 356.7 | -35.8 | -7.26 | 1.211 | 83.5 | 0.500 | 1.993 | 19.6 | 216.9 | --- | 2.989 | 0.14 | 0.549 | 63.4 | 79.8 | 0.3 | 0.237 |
| 4-1140 | 4-1900 | 0.286 | 1.8 | -34.5 | -7.23 | 1.212 | 84.6 | 0.501 | 2.009 | 16.3 | 218.5 | --- | 3.014 | 0.11 | 0.557 | 62.9 | 83.9 | 0.2 | 0.241 |
| 4-1150 | 4-1250 | 0.955 | 287.7 | -30.3 | -8.81 | 1.261 | 42.3 | 0.848 | 2.645 | 108.4 | 142.8 | --- | --- | -2.16 | 0.704 | 147.6 | 46.5 | -1.3 | 0.612 |
| 4-1150 | 4-1270 | 0.875 | 287.0 | -30.8 | -8.48 | 1.204 | 45.0 | 0.782 | 1.930 | 109.6 | 149.7 | --- | --- | -1.89 | 0.590 | 140.6 | 44.7 | -1.4 | 0.492 |
| 4-1150 | 4-1290 | 0.821 | 287.1 | -31.2 | -8.22 | 1.172 | 47.2 | 0.740 | 1.685 | 109.7 | 155.4 | --- | --- | -1.70 | 0.515 | 133.2 | 42.5 | -1.6 | 0.408 |
| 4-1150 | 4-1310 | 0.780 | 287.5 | -31.5 | -8.01 | 1.155 | 49.0 | 0.709 | 1.576 | 108.8 | 160.0 | --- | --- | -1.56 | 0.466 | 126.0 | 39.9 | -1.7 | 0.349 |
| 4-1150 | 4-1330 | 0.748 | 288.4 | -31.7 | -7.83 | 1.145 | 50.6 | 0.685 | 1.525 | 107.3 | 164.0 | --- | --- | -1.46 | 0.434 | 119.0 | 37.0 | -1.8 | 0.307 |
| 4-1150 | 4-1350 | 0.722 | 289.5 | -31.9 | -7.68 | 1.141 | 52.0 | 0.666 | 1.503 | 105.4 | 167.4 | --- | --- | -1.38 | 0.414 | 112.5 | 34.1 | -1.9 | 0.278 |
| 4-1150 | 4-1370 | 0.698 | 290.7 | -32.1 | -7.54 | 1.140 | 53.4 | 0.650 | 1.497 | 103.2 | 170.4 | --- | --- | -1.32 | 0.403 | 106.7 | 31.4 | -2.0 | 0.257 |
| 4-1150 | 4-1390 | 0.677 | 292.1 | -32.2 | -7.42 | 1.141 | 54.7 | 0.636 | 1.502 | 100.8 | 173.2 | --- | --- | -1.28 | 0.398 | 101.6 | 29.2 | -2.1 | 0.243 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1150 | 4-1410 | 0.657 | 293.6 | -32.4 | -7.30 | 1.143 | 55.9 | 0.623 | 1.513 | 98.2 | 175.7 | --- | --- | -1.25 | 0.397 | 97.1 | 27.4 | -2.1 | 0.233 |
| 4-1150 | 4-1430 | 0.638 | 295.2 | -32.5 | -7.19 | 1.146 | 57.1 | 0.612 | 1.529 | 95.5 | 178.0 | --- | --- | -1.23 | 0.398 | 93.2 | 26.2 | -2.2 | 0.226 |
| 4-1150 | 4-1450 | 0.621 | 296.8 | -32.5 | -7.08 | 1.150 | 58.2 | 0.602 | 1.547 | 92.8 | 180.2 | --- | 2.479 | -1.22 | 0.401 | 89.8 | 25.6 | -2.2 | 0.222 |
| 4-1150 | 4-1470 | 0.603 | 298.5 | -32.6 | -6.98 | 1.153 | 59.4 | 0.593 | 1.568 | 89.9 | 182.2 | --- | 2.496 | -1.22 | 0.405 | 86.8 | 25.5 | -2.2 | 0.220 |
| 4-1150 | 4-1490 | 0.586 | 300.3 | -32.6 | -6.88 | 1.157 | 60.5 | 0.584 | 1.589 | 87.1 | 184.2 | --- | 2.517 | -1.23 | 0.410 | 84.2 | 25.9 | -2.3 | 0.218 |
| 4-1150 | 4-1510 | 0.570 | 302.0 | -32.7 | -6.77 | 1.161 | 61.6 | 0.576 | 1.611 | 84.2 | 186.0 | --- | 2.540 | -1.25 | 0.416 | 81.9 | 26.8 | -2.4 | 0.217 |
| 4-1150 | 4-1530 | 0.554 | 303.8 | -32.6 | -6.66 | 1.164 | 62.6 | 0.569 | 1.634 | 81.3 | 187.9 | --- | 2.564 | -1.27 | 0.422 | 79.9 | 28.0 | -2.4 | 0.217 |
| 4-1150 | 4-1550 | 0.538 | 305.7 | -32.6 | -6.55 | 1.168 | 63.7 | 0.563 | 1.656 | 78.3 | 189.6 | --- | 2.588 | -1.31 | 0.428 | 78.0 | 29.6 | -2.5 | 0.217 |
| 4-1150 | 4-1570 | 0.522 | 307.6 | -32.5 | -6.43 | 1.171 | 64.7 | 0.557 | 1.679 | 75.4 | 191.4 | --- | 2.614 | -1.36 | 0.434 | 76.4 | 31.4 | -2.6 | 0.218 |
| 4-1150 | 4-1590 | 0.507 | 309.5 | -32.4 | -6.31 | 1.175 | 65.7 | 0.551 | 1.702 | 72.5 | 193.1 | --- | 2.639 | -1.42 | 0.441 | 75.0 | 33.5 | -2.8 | 0.219 |
| 4-1150 | 4-1610 | 0.491 | 311.5 | -32.2 | -6.17 | 1.178 | 66.7 | 0.546 | 1.724 | 69.6 | 194.7 | --- | 2.665 | -1.49 | 0.447 | 73.6 | 35.8 | -2.9 | 0.219 |
| 4-1150 | 4-1630 | 0.476 | 313.6 | -31.9 | -6.01 | 1.181 | 67.8 | 0.541 | 1.746 | 66.6 | 196.4 | --- | 2.691 | -1.59 | 0.454 | 72.4 | 38.3 | -3.1 | 0.220 |
| 4-1150 | 4-1650 | 0.461 | 315.7 | -31.6 | -5.84 | 1.184 | 68.8 | 0.537 | 1.768 | 63.7 | 198.0 | --- | 2.716 | -1.70 | 0.461 | 71.3 | 41.0 | -3.4 | 0.221 |
| 4-1150 | 4-1670 | 0.446 | 317.8 | -31.1 | -5.63 | 1.187 | 69.8 | 0.533 | 1.789 | 60.7 | 199.6 | --- | 2.742 | -1.85 | 0.468 | 70.2 | 43.8 | -3.7 | 0.223 |
| 4-1150 | 4-1690 | 0.431 | 320.0 | -30.5 | -5.38 | 1.190 | 70.7 | 0.529 | 1.810 | 57.8 | 201.2 | --- | 2.767 | -2.05 | 0.475 | 69.3 | 46.8 | -4.1 | 0.224 |
| 4-1150 | 4-1710 | 0.416 | 322.1 | -29.6 | -5.08 | 1.192 | 71.7 | 0.526 | 1.830 | 54.8 | 202.8 | --- | 2.792 | -2.30 | 0.482 | 68.4 | 49.9 | -4.6 | 0.225 |
| 4-1150 | 4-1730 | 0.401 | 324.3 | -28.4 | -4.68 | 1.195 | 72.7 | 0.523 | 1.850 | 51.9 | 204.4 | --- | 2.817 | -2.65 | 0.489 | 67.6 | 53.1 | -5.3 | 0.227 |
| 4-1150 | 4-1750 | 0.385 | 326.5 | -26.7 | -4.13 | 1.197 | 73.7 | 0.520 | 1.869 | 48.9 | 206.1 | --- | 2.842 | -3.14 | 0.496 | 66.8 | 56.4 | -6.3 | 0.229 |
| 4-1150 | 4-1770 | 0.369 | 328.4 | -24.0 | -3.32 | 1.199 | 74.7 | 0.518 | 1.888 | 45.9 | 207.7 | --- | 2.866 | -3.90 | 0.504 | 66.1 | 59.9 | -7.8 | 0.232 |
| 4-1150 | 4-1790 | 0.352 | 329.7 | -19.3 | -1.98 | 1.201 | 75.7 | 0.515 | 1.907 | 42.9 | 209.3 | --- | 2.890 | -5.19 | 0.512 | 65.4 | 63.6 | -10.3 | 0.236 |
| 4-1150 | 4-1810 | 0.337 | 329.2 | -9.8 | 0.74 | 1.204 | 76.7 | 0.514 | 1.925 | 39.8 | 210.9 | --- | 2.914 | -7.86 | 0.519 | 64.8 | 67.7 | -15.2 | 0.245 |
| 4-1150 | 4-1830 | 0.368 | 319.9 | 17.3 | 9.31 | 1.205 | 77.7 | 0.512 | 1.943 | 36.8 | 212.5 | --- | 2.938 | -18.38 | 0.527 | 64.2 | 74.2 | -28.4 | 0.281 |
| 4-1150 | 4-1850 | 1.284 | 176.1 | -69.8 | -70.48 | 1.207 | 79.1 | 0.509 | 1.960 | 32.7 | 214.1 | --- | 2.959 | 63.48 | 0.535 | 63.7 | 104.5 | 44.1 | 0.616 |
| 4-1150 | 4-1870 | 0.475 | 8.3 | -63.0 | -19.67 | 1.209 | 79.9 | 0.509 | 1.977 | 30.1 | 215.7 | --- | 2.985 | 12.70 | 0.543 | 63.1 | 80.5 | 23.3 | 0.269 |
| 4-1150 | 4-1890 | 0.387 | 4.2 | -51.2 | -13.71 | 1.211 | 81.0 | 0.509 | 1.994 | 26.9 | 217.3 | --- | 3.009 | 6.80 | 0.552 | 62.6 | 82.8 | 13.2 | 0.253 |
| 4-1150 | 4-1910 | 0.352 | 5.8 | -45.3 | -11.50 | 1.213 | 82.1 | 0.509 | 2.010 | 23.6 | 218.9 | --- | 3.033 | 4.64 | 0.560 | 62.1 | 86.6 | 9.1 | 0.252 |
| 4-1160 | 4-1260 | 1.070 | 290.0 | -29.6 | -11.21 | 1.233 | 34.7 | 0.878 | 2.221 | 124.6 | 152.5 | --- | --- | -5.07 | 0.648 | 151.4 | 42.9 | -2.5 | 0.625 |
| 4-1160 | 4-1280 | 0.982 | 290.3 | -29.8 | -10.31 | 1.181 | 38.1 | 0.828 | 1.737 | 123.9 | 157.4 | --- | --- | -4.29 | 0.535 | 143.5 | 40.9 | -2.7 | 0.506 |
| 4-1160 | 4-1300 | 0.921 | 291.0 | -30.0 | -9.65 | 1.153 | 40.8 | 0.791 | 1.562 | 122.5 | 161.5 | --- | --- | -3.76 | 0.463 | 135.1 | 38.5 | -2.9 | 0.426 |
| 4-1160 | 4-1320 | 0.875 | 292.0 | -30.1 | -9.14 | 1.138 | 43.0 | 0.762 | 1.485 | 120.5 | 165.0 | --- | --- | -3.38 | 0.417 | 126.8 | 35.8 | -3.1 | 0.369 |
| 4-1160 | 4-1340 | 0.838 | 293.3 | -30.2 | -8.73 | 1.132 | 45.0 | 0.738 | 1.452 | 118.2 | 168.1 | --- | --- | -3.09 | 0.390 | 118.7 | 33.1 | -3.2 | 0.329 |
| 4-1160 | 4-1360 | 0.807 | 294.6 | -30.2 | -8.38 | 1.130 | 46.8 | 0.718 | 1.442 | 115.7 | 170.9 | --- | --- | -2.88 | 0.374 | 111.4 | 30.6 | -3.3 | 0.301 |
| 4-1160 | 4-1380 | 0.779 | 296.1 | -30.2 | -8.08 | 1.130 | 48.4 | 0.700 | 1.445 | 113.8 | 173.4 | --- | --- | -2.72 | 0.388 | 104.9 | 28.5 | -3.4 | 0.282 |
| 4-1160 | 4-1400 | 0.754 | 297.7 | -30.2 | -7.81 | 1.133 | 50.0 | 0.684 | 1.456 | 110.2 | 175.7 | --- | --- | -2.60 | 0.366 | 99.2 | 26.8 | -3.5 | 0.268 |
| 4-1160 | 4-1420 | 0.731 | 299.3 | -30.1 | -7.57 | 1.136 | 51.4 | 0.669 | 1.472 | 107.3 | 177.8 | --- | --- | -2.51 | 0.369 | 94.4 | 25.6 | -3.6 | 0.258 |
| 4-1160 | 4-1440 | 0.710 | 300.9 | -30.0 | -7.34 | 1.140 | 52.8 | 0.656 | 1.492 | 104.4 | 179.9 | --- | --- | -2.44 | 0.373 | 90.3 | 25.1 | -3.6 | 0.251 |
| 4-1160 | 4-1460 | 0.689 | 302.5 | -29.9 | -7.13 | 1.144 | 54.1 | 0.644 | 1.514 | 101.4 | 181.8 | --- | 2.488 | -2.40 | 0.379 | 86.8 | 25.0 | -3.7 | 0.247 |
| 4-1160 | 4-1480 | 0.670 | 304.2 | -29.8 | -6.93 | 1.148 | 55.4 | 0.633 | 1.537 | 98.4 | 183.6 | --- | 2.510 | -2.37 | 0.386 | 83.8 | 25.4 | -3.7 | 0.244 |
| 4-1160 | 4-1500 | 0.651 | 305.9 | -29.6 | -6.73 | 1.153 | 56.6 | 0.623 | 1.561 | 95.4 | 185.4 | --- | 2.533 | -2.37 | 0.393 | 81.2 | 26.2 | -3.8 | 0.241 |
| 4-1160 | 4-1520 | 0.632 | 307.5 | -29.4 | -6.53 | 1.157 | 57.8 | 0.613 | 1.586 | 92.4 | 187.1 | --- | 2.558 | -2.37 | 0.401 | 79.0 | 27.4 | -3.9 | 0.240 |
| 4-1160 | 4-1540 | 0.614 | 309.3 | -29.2 | -6.34 | 1.161 | 59.0 | 0.604 | 1.610 | 89.4 | 188.8 | --- | 2.583 | -2.40 | 0.409 | 77.0 | 28.9 | -4.0 | 0.239 |
| 4-1160 | 4-1560 | 0.596 | 311.0 | -29.0 | -6.13 | 1.165 | 60.2 | 0.596 | 1.635 | 86.4 | 190.5 | --- | 2.610 | -2.44 | 0.417 | 75.3 | 30.7 | -4.1 | 0.238 |
| 4-1160 | 4-1580 | 0.578 | 312.7 | -28.6 | -5.93 | 1.169 | 61.3 | 0.589 | 1.660 | 83.4 | 192.1 | --- | 2.636 | -2.50 | 0.425 | 73.8 | 32.8 | -4.3 | 0.238 |
| 4-1160 | 4-1600 | 0.561 | 314.4 | -28.3 | -5.71 | 1.173 | 62.4 | 0.581 | 1.684 | 80.4 | 193.7 | --- | 2.663 | -2.58 | 0.432 | 72.4 | 35.0 | -4.5 | 0.238 |
| 4-1160 | 4-1620 | 0.544 | 316.2 | -27.8 | -5.47 | 1.176 | 63.5 | 0.575 | 1.708 | 77.4 | 195.3 | --- | 2.689 | -2.68 | 0.440 | 71.2 | 37.5 | -4.7 | 0.238 |
| 4-1160 | 4-1640 | 0.527 | 318.0 | -27.3 | -5.22 | 1.180 | 64.6 | 0.569 | 1.731 | 74.4 | 196.9 | --- | 2.716 | -2.81 | 0.448 | 70.1 | 40.1 | -5.0 | 0.238 |
| 4-1160 | 4-1660 | 0.510 | 319.8 | -26.7 | -4.94 | 1.183 | 65.7 | 0.563 | 1.754 | 71.4 | 198.5 | --- | 2.742 | -2.97 | 0.456 | 69.1 | 42.9 | -5.3 | 0.239 |
| 4-1160 | 4-1680 | 0.493 | 321.6 | -25.9 | -4.63 | 1.186 | 66.7 | 0.558 | 1.777 | 68.4 | 200.0 | --- | 2.768 | -3.17 | 0.464 | 68.1 | 45.8 | -5.7 | 0.239 |
| 4-1160 | 4-1700 | 0.477 | 323.4 | -24.9 | -4.26 | 1.189 | 67.8 | 0.553 | 1.799 | 65.4 | 201.6 | --- | 2.793 | -3.42 | 0.471 | 67.3 | 48.9 | -6.2 | 0.240 |
| 4-1160 | 4-1720 | 0.460 | 325.1 | -23.8 | -3.83 | 1.192 | 68.8 | 0.548 | 1.820 | 62.4 | 203.2 | --- | 2.818 | -3.74 | 0.479 | 66.5 | 52.0 | -6.8 | 0.241 |
| 4-1160 | 4-1740 | 0.443 | 326.9 | -22.2 | -3.31 | 1.194 | 69.9 | 0.544 | 1.841 | 59.4 | 204.7 | --- | 2.843 | -4.16 | 0.487 | 65.8 | 55.3 | -7.6 | 0.243 |
| 4-1160 | 4-1760 | 0.427 | 328.5 | -20.2 | -2.64 | 1.197 | 70.9 | 0.540 | 1.862 | 56.4 | 206.3 | --- | 2.868 | -4.72 | 0.495 | 65.1 | 58.7 | -8.7 | 0.244 |
| 4-1160 | 4-1780 | 0.410 | 330.0 | -17.4 | -1.75 | 1.199 | 71.9 | 0.536 | 1.882 | 53.4 | 207.9 | --- | 2.892 | -5.51 | 0.503 | 64.5 | 62.3 | -10.2 | 0.247 |
| 4-1160 | 4-1800 | 0.394 | 331.0 | -13.4 | -0.50 | 1.202 | 73.0 | 0.533 | 1.902 | 50.3 | 209.5 | --- | 2.916 | -6.67 | 0.512 | 63.9 | 66.0 | -12.3 | 0.251 |
| 4-1160 | 4-1820 | 0.380 | 331.2 | -7.1 | 1.46 | 1.204 | 74.0 | 0.530 | 1.921 | 47.3 | 211.1 | --- | 2.939 | -8.52 | 0.520 | 63.4 | 70.0 | -15.5 | 0.257 |
| 4-1160 | 4-1840 | 0.376 | 329.1 | 4.1 | 4.98 | 1.206 | 75.1 | 0.528 | 1.940 | 44.2 | 212.7 | --- | 2.963 | -11.94 | 0.528 | 62.9 | 74.7 | -21.1 | 0.271 |
| 4-1160 | 4-1860 | 0.430 | 319.3 | 25.2 | 13.25 | 1.208 | 76.1 | 0.526 | 1.958 | 41.2 | 214.3 | --- | 2.987 | -20.12 | 0.537 | 62.4 | 81.9 | -31.6 | 0.312 |
| 4-1160 | 4-1880 | 0.950 | 268.7 | 45.1 | 48.59 | 1.210 | 76.9 | 0.525 | 1.976 | 38.8 | 215.9 | --- | 3.013 | -55.35 | 0.545 | 61.8 | 106.3 | -44.4 | 0.564 |
| 4-1160 | 4-1900 | 0.848 | 61.0 | -84.0 | -42.65 | 1.211 | 78.7 | 0.519 | 1.993 | 33.5 | 217.5 | --- | 3.028 | 35.98 | 0.554 | 61.7 | 99.4 | 42.6 | 0.423 |
| 4-1160 | 4-1920 | 0.525 | 17.9 | -63.7 | -22.67 | 1.213 | 79.7 | 0.519 | 2.010 | 30.6 | 219.1 | --- | 3.053 | 16.11 | 0.562 | 61.3 | 92.3 | 27.2 | 0.300 |
| 4-1170 | 4-1290 | 1.092 | 294.3 | -28.8 | -13.07 | 1.162 | 30.9 | 0.879 | 1.606 | 136.7 | 163.6 | --- | --- | -7.64 | 0.486 | 147.7 | 37.6 | -3.7 | 0.534 |
| 4-1170 | 4-1310 | 1.024 | 295.5 | -28.7 | -11.70 | 1.136 | 34.1 | 0.846 | 1.469 | 134.0 | 166.4 | --- | --- | -6.45 | 0.413 | 138.2 | 35.2 | -3.9 | 0.454 |
| 4-1170 | 4-1330 | 0.972 | 297.0 | -28.7 | -10.71 | 1.124 | 36.9 | 0.818 | 1.412 | 131.2 | 168.9 | --- | --- | -5.64 | 0.369 | 128.4 | 32.7 | -4.1 | 0.399 |
| 4-1170 | 4-1350 | 0.929 | 298.5 | -28.6 | -9.94 | 1.119 | 39.3 | 0.793 | 1.391 | 128.2 | 171.3 | --- | --- | -5.05 | 0.344 | 119.0 | 30.4 | -4.2 | 0.359 |
| 4-1170 | 4-1370 | 0.894 | 300.1 | -28.4 | -9.33 | 1.119 | 41.4 | 0.771 | 1.389 | 125.2 | 173.5 | --- | --- | -4.62 | 0.332 | 110.4 | 28.3 | -4.3 | 0.332 |
| 4-1170 | 4-1390 | 0.863 | 301.8 | -28.3 | -8.81 | 1.121 | 43.3 | 0.751 | 1.398 | 122.2 | 175.6 | --- | --- | -4.30 | 0.330 | 103.0 | 26.7 | -4.4 | 0.312 |
| 4-1170 | 4-1410 | 0.834 | 303.4 | -28.1 | -8.36 | 1.125 | 45.1 | 0.734 | 1.414 | 119.1 | 177.6 | --- | --- | -4.05 | 0.333 | 96.7 | 25.6 | -4.5 | 0.298 |
| 4-1170 | 4-1430 | 0.808 | 305.1 | -27.9 | -7.97 | 1.129 | 46.8 | 0.717 | 1.434 | 115.9 | 179.4 | --- | --- | -3.85 | 0.339 | 91.4 | 24.9 | -4.5 | 0.287 |
| 4-1170 | 4-1450 | 0.784 | 306.8 | -27.6 | -7.61 | 1.134 | 48.3 | 0.702 | 1.457 | 112.8 | 181.2 | --- | 2.480 | -3.71 | 0.347 | 87.1 | 24.8 | -4.6 | 0.280 |
| 4-1170 | 4-1470 | 0.761 | 308.4 | -27.4 | -7.28 | 1.139 | 49.8 | 0.688 | 1.481 | 109.7 | 183.0 | --- | 2.501 | -3.60 | 0.356 | 83.5 | 25.2 | -4.6 | 0.274 |
| 4-1170 | 4-1490 | 0.739 | 310.0 | -27.1 | -6.97 | 1.144 | 51.3 | 0.676 | 1.507 | 106.5 | 184.7 | --- | 2.525 | -3.52 | 0.366 | 80.5 | 25.9 | -4.7 | 0.270 |
| 4-1170 | 4-1510 | 0.718 | 311.7 | -26.8 | -6.68 | 1.149 | 52.7 | 0.664 | 1.533 | 103.4 | 186.3 | --- | 2.551 | -3.48 | 0.376 | 77.9 | 27.1 | -4.8 | 0.267 |
| 4-1170 | 4-1530 | 0.697 | 313.3 | -26.4 | -6.39 | 1.154 | 54.0 | 0.652 | 1.560 | 100.3 | 187.9 | --- | 2.577 | -3.45 | 0.386 | 75.8 | 28.5 | -4.9 | 0.265 |
| 4-1170 | 4-1550 | 0.677 | 314.9 | -26.0 | -6.11 | 1.158 | 55.3 | 0.642 | 1.586 | 97.2 | 189.5 | --- | 2.605 | -3.45 | 0.395 | 73.9 | 30.3 | -5.0 | 0.263 |
| 4-1170 | 4-1570 | 0.657 | 316.5 | -25.6 | -5.83 | 1.163 | 56.6 | 0.632 | 1.613 | 94.1 | 191.1 | --- | 2.632 | -3.47 | 0.405 | 72.3 | 32.3 | -5.1 | 0.261 |
| 4-1170 | 4-1590 | 0.638 | 318.1 | -25.2 | -5.54 | 1.167 | 57.8 | 0.623 | 1.639 | 91.1 | 192.6 | --- | 2.660 | -3.52 | 0.414 | 70.9 | 34.5 | -5.3 | 0.260 |
| 4-1170 | 4-1610 | 0.619 | 319.7 | -24.6 | -5.25 | 1.171 | 59.0 | 0.614 | 1.665 | 88.0 | 194.1 | --- | 2.688 | -3.59 | 0.424 | 69.6 | 36.9 | -5.5 | 0.259 |
| 4-1170 | 4-1630 | 0.600 | 321.3 | -24.0 | -4.94 | 1.175 | 60.2 | 0.606 | 1.690 | 84.9 | 195.7 | --- | 2.715 | -3.69 | 0.433 | 68.5 | 39.4 | -5.8 | 0.258 |
| 4-1170 | 4-1650 | 0.582 | 322.9 | -23.3 | -4.62 | 1.178 | 61.3 | 0.599 | 1.715 | 81.9 | 197.2 | --- | 2.742 | -3.81 | 0.441 | 67.5 | 42.2 | -6.0 | 0.258 |
| 4-1170 | 4-1670 | 0.564 | 324.5 | -22.6 | -4.27 | 1.182 | 62.5 | 0.592 | 1.739 | 78.9 | 198.7 | --- | 2.769 | -3.98 | 0.450 | 66.6 | 45.0 | -6.4 | 0.258 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1170 | 4-1690 | 0.545 | 326.0 | -21.7 | -3.88 | 1.185 | 63.6 | 0.585 | 1.763 | 75.9 | 200.2 | --- | 2.795 | -4.18 | 0.459 | 65.8 | 48.0 | -6.8 | 0.258 |
| 4-1170 | 4-1710 | 0.527 | 327.6 | -20.6 | -3.46 | 1.188 | 64.7 | 0.579 | 1.786 | 72.8 | 201.8 | --- | 2.821 | -4.44 | 0.468 | 65.1 | 51.1 | -7.3 | 0.258 |
| 4-1170 | 4-1730 | 0.510 | 329.1 | -19.3 | -2.97 | 1.191 | 65.8 | 0.573 | 1.809 | 69.8 | 203.3 | --- | 2.846 | -4.76 | 0.476 | 64.4 | 54.3 | -7.9 | 0.258 |
| 4-1170 | 4-1750 | 0.492 | 330.6 | -17.7 | -2.40 | 1.194 | 66.9 | 0.568 | 1.831 | 66.8 | 204.9 | --- | 2.871 | -5.17 | 0.485 | 63.8 | 57.7 | -8.7 | 0.259 |
| 4-1170 | 4-1770 | 0.474 | 332.0 | -15.8 | -1.71 | 1.197 | 68.0 | 0.563 | 1.853 | 63.7 | 206.4 | --- | 2.895 | -5.69 | 0.494 | 63.2 | 61.2 | -9.7 | 0.261 |
| 4-1170 | 4-1790 | 0.457 | 333.2 | -13.3 | -0.86 | 1.199 | 69.1 | 0.558 | 1.874 | 60.7 | 208.0 | --- | 2.920 | -6.39 | 0.502 | 62.7 | 64.7 | -10.9 | 0.263 |
| 4-1170 | 4-1810 | 0.441 | 334.2 | -10.0 | 0.24 | 1.202 | 70.2 | 0.553 | 1.895 | 57.6 | 209.6 | --- | 2.943 | -7.35 | 0.511 | 62.2 | 68.5 | -12.6 | 0.266 |
| 4-1170 | 4-1830 | 0.426 | 334.6 | -5.5 | 1.76 | 1.204 | 71.3 | 0.549 | 1.915 | 54.5 | 211.1 | --- | 2.967 | -8.71 | 0.520 | 61.8 | 72.4 | -14.9 | 0.270 |
| 4-1170 | 4-1850 | 0.415 | 334.1 | 1.2 | 4.01 | 1.206 | 72.3 | 0.545 | 1.935 | 51.4 | 212.7 | --- | 2.990 | -10.81 | 0.529 | 61.4 | 76.7 | -18.3 | 0.278 |
| 4-1170 | 4-1870 | 0.419 | 331.4 | 11.7 | 7.74 | 1.208 | 73.4 | 0.542 | 1.954 | 48.4 | 214.3 | --- | 3.013 | -14.40 | 0.538 | 61.0 | 81.7 | -23.5 | 0.294 |
| 4-1170 | 4-1890 | 0.473 | 322.1 | 28.0 | 15.19 | 1.210 | 74.5 | 0.539 | 1.973 | 45.3 | 216.0 | --- | 3.036 | -21.69 | 0.547 | 60.7 | 88.8 | -31.9 | 0.333 |
| 4-1170 | 4-1910 | 0.759 | 290.3 | 44.4 | 36.04 | 1.212 | 75.4 | 0.538 | 1.991 | 42.7 | 217.6 | --- | 3.061 | -42.40 | 0.556 | 60.3 | 105.1 | -43.0 | 0.477 |
| 4-1180 | 4-1300 | 1.205 | 298.8 | -27.6 | -17.66 | 1.148 | 23.6 | 0.926 | 1.519 | 148.2 | 168.5 | --- | --- | -12.86 | 0.443 | 153.4 | 35.3 | -4.4 | 0.573 |
| 4-1180 | 4-1320 | 1.129 | 300.5 | -27.4 | -14.86 | 1.123 | 27.3 | 0.897 | 1.402 | 144.5 | 170.2 | --- | --- | -10.28 | 0.367 | 142.8 | 33.0 | -4.6 | 0.492 |
| 4-1180 | 4-1340 | 1.070 | 302.3 | -27.1 | -13.01 | 1.112 | 30.5 | 0.871 | 1.356 | 141.0 | 172.0 | --- | --- | -8.64 | 0.321 | 131.4 | 30.8 | -4.8 | 0.436 |
| 4-1180 | 4-1360 | 1.023 | 304.1 | -26.9 | -11.67 | 1.109 | 33.3 | 0.846 | 1.342 | 137.5 | 173.8 | --- | --- | -7.52 | 0.297 | 120.1 | 28.8 | -4.9 | 0.396 |
| 4-1180 | 4-1380 | 0.983 | 305.8 | -26.6 | -10.64 | 1.110 | 35.8 | 0.824 | 1.345 | 134.1 | 175.5 | --- | --- | -6.72 | 0.289 | 109.8 | 27.2 | -5.0 | 0.367 |
| 4-1180 | 4-1400 | 0.948 | 307.6 | -26.3 | -9.81 | 1.113 | 38.0 | 0.803 | 1.357 | 130.7 | 177.2 | --- | --- | -6.13 | 0.290 | 101.1 | 26.0 | -5.0 | 0.346 |
| 4-1180 | 4-1420 | 0.916 | 309.4 | -25.9 | -9.12 | 1.117 | 40.1 | 0.784 | 1.376 | 127.4 | 178.9 | --- | --- | -5.67 | 0.298 | 93.9 | 25.3 | -5.1 | 0.331 |
| 4-1180 | 4-1440 | 0.887 | 311.1 | -25.6 | -8.53 | 1.123 | 42.0 | 0.766 | 1.399 | 124.1 | 180.6 | --- | 2.471 | -5.33 | 0.308 | 88.1 | 25.1 | -5.1 | 0.320 |
| 4-1180 | 4-1460 | 0.861 | 312.7 | -25.2 | -8.02 | 1.128 | 43.7 | 0.750 | 1.424 | 120.8 | 182.2 | --- | 2.492 | -5.06 | 0.320 | 83.5 | 25.4 | -5.2 | 0.311 |
| 4-1180 | 4-1480 | 0.835 | 314.4 | -24.8 | -7.55 | 1.134 | 45.4 | 0.734 | 1.451 | 117.5 | 183.8 | --- | 2.516 | -4.85 | 0.332 | 79.8 | 26.0 | -5.2 | 0.304 |
| 4-1180 | 4-1500 | 0.811 | 316.0 | -24.4 | -7.12 | 1.140 | 47.0 | 0.720 | 1.478 | 114.3 | 185.3 | --- | 2.542 | -4.70 | 0.345 | 76.8 | 27.1 | -5.3 | 0.299 |
| 4-1180 | 4-1520 | 0.787 | 317.6 | -24.0 | -6.72 | 1.145 | 48.5 | 0.706 | 1.506 | 111.1 | 186.8 | --- | 2.570 | -4.58 | 0.357 | 74.3 | 28.5 | -5.3 | 0.295 |
| 4-1180 | 4-1540 | 0.765 | 319.2 | -23.5 | -6.34 | 1.150 | 50.0 | 0.694 | 1.534 | 107.9 | 188.3 | --- | 2.598 | -4.50 | 0.369 | 72.2 | 30.1 | -5.4 | 0.291 |
| 4-1180 | 4-1560 | 0.743 | 320.7 | -23.0 | -5.97 | 1.155 | 51.4 | 0.682 | 1.562 | 104.8 | 189.8 | --- | 2.627 | -4.46 | 0.381 | 70.5 | 32.0 | -5.6 | 0.288 |
| 4-1180 | 4-1580 | 0.721 | 322.2 | -22.5 | -5.61 | 1.160 | 52.8 | 0.670 | 1.590 | 101.6 | 191.3 | --- | 2.656 | -4.44 | 0.392 | 69.0 | 34.2 | -5.7 | 0.286 |
| 4-1180 | 4-1600 | 0.700 | 323.7 | -21.9 | -5.25 | 1.165 | 54.1 | 0.660 | 1.618 | 98.5 | 192.8 | --- | 2.685 | -4.45 | 0.403 | 67.7 | 36.5 | -5.9 | 0.284 |
| 4-1180 | 4-1620 | 0.680 | 325.2 | -21.2 | -4.89 | 1.169 | 55.4 | 0.650 | 1.645 | 95.4 | 194.3 | --- | 2.713 | -4.49 | 0.414 | 66.6 | 39.0 | -6.1 | 0.282 |
| 4-1180 | 4-1640 | 0.660 | 326.7 | -20.5 | -4.52 | 1.173 | 56.7 | 0.640 | 1.671 | 92.3 | 195.8 | --- | 2.742 | -4.57 | 0.424 | 65.6 | 41.6 | -6.3 | 0.280 |
| 4-1180 | 4-1660 | 0.640 | 328.1 | -19.8 | -4.14 | 1.177 | 57.9 | 0.631 | 1.698 | 89.3 | 197.2 | --- | 2.769 | -4.67 | 0.434 | 64.7 | 44.4 | -6.6 | 0.279 |
| 4-1180 | 4-1680 | 0.620 | 329.6 | -18.9 | -3.74 | 1.181 | 59.2 | 0.623 | 1.723 | 86.2 | 198.7 | --- | 2.797 | -4.81 | 0.444 | 64.0 | 47.3 | -6.9 | 0.278 |
| 4-1180 | 4-1700 | 0.601 | 331.0 | -17.9 | -3.31 | 1.185 | 60.4 | 0.615 | 1.748 | 83.2 | 200.2 | --- | 2.823 | -4.99 | 0.454 | 63.3 | 50.4 | -7.3 | 0.277 |
| 4-1180 | 4-1720 | 0.582 | 332.4 | -16.8 | -2.85 | 1.188 | 61.5 | 0.608 | 1.773 | 80.1 | 201.7 | --- | 2.850 | -5.22 | 0.464 | 62.7 | 53.5 | -7.8 | 0.277 |
| 4-1180 | 4-1740 | 0.563 | 333.7 | -15.6 | -2.33 | 1.191 | 62.7 | 0.600 | 1.797 | 77.0 | 203.2 | --- | 2.875 | -5.51 | 0.473 | 62.1 | 56.8 | -8.3 | 0.277 |
| 4-1180 | 4-1760 | 0.544 | 335.0 | -14.1 | -1.75 | 1.194 | 63.9 | 0.594 | 1.820 | 74.0 | 204.8 | --- | 2.900 | -5.87 | 0.483 | 61.6 | 60.2 | -9.0 | 0.277 |
| 4-1180 | 4-1780 | 0.526 | 336.3 | -12.3 | -1.07 | 1.197 | 65.0 | 0.587 | 1.843 | 70.9 | 206.3 | --- | 2.925 | -6.33 | 0.492 | 61.2 | 63.7 | -9.8 | 0.278 |
| 4-1180 | 4-1800 | 0.508 | 337.4 | -10.1 | -0.27 | 1.200 | 66.2 | 0.581 | 1.865 | 67.9 | 207.9 | --- | 2.949 | -6.92 | 0.501 | 60.8 | 67.3 | -10.9 | 0.279 |
| 4-1180 | 4-1820 | 0.490 | 338.3 | -7.4 | 0.70 | 1.202 | 67.3 | 0.576 | 1.886 | 64.8 | 209.4 | --- | 2.973 | -7.69 | 0.511 | 60.4 | 71.0 | -12.2 | 0.281 |
| 4-1180 | 4-1840 | 0.474 | 338.9 | -3.9 | 1.95 | 1.205 | 68.4 | 0.570 | 1.908 | 61.7 | 211.0 | --- | 2.996 | -8.74 | 0.520 | 60.1 | 74.9 | -13.9 | 0.284 |
| 4-1180 | 4-1860 | 0.460 | 339.1 | 0.8 | 3.61 | 1.207 | 69.6 | 0.566 | 1.928 | 58.5 | 212.6 | --- | 3.019 | -10.20 | 0.529 | 59.8 | 79.0 | -16.3 | 0.289 |
| 4-1180 | 4-1880 | 0.452 | 338.1 | 7.3 | 5.98 | 1.209 | 70.7 | 0.561 | 1.948 | 55.4 | 214.2 | --- | 3.041 | -12.38 | 0.538 | 59.5 | 83.5 | -19.5 | 0.298 |
| 4-1180 | 4-1900 | 0.459 | 335.1 | 16.6 | 9.69 | 1.211 | 71.8 | 0.557 | 1.968 | 52.3 | 215.9 | --- | 3.064 | -15.90 | 0.548 | 59.3 | 88.7 | -24.3 | 0.314 |
| 4-1180 | 4-1920 | 0.508 | 326.7 | 29.7 | 16.39 | 1.213 | 72.9 | 0.553 | 1.987 | 49.2 | 217.5 | --- | 3.087 | -22.39 | 0.557 | 59.0 | 95.6 | -31.4 | 0.350 |
| 4-1180 | 4-1940 | 0.704 | 303.2 | 42.9 | 31.57 | 1.215 | 73.9 | 0.551 | 2.006 | 46.4 | 219.1 | --- | 3.111 | -37.39 | 0.567 | 58.7 | 108.3 | -40.6 | 0.451 |
| 4-1190 | 4-1310 | 1.319 | 303.7 | -26.2 | -26.60 | 1.139 | 16.3 | 0.964 | 1.468 | 158.5 | 172.5 | --- | --- | -22.44 | 0.412 | 160.5 | 34.0 | -4.8 | 0.622 |
| 4-1190 | 4-1330 | 1.235 | 305.7 | -25.9 | -20.29 | 1.114 | 20.5 | 0.941 | 1.356 | 154.1 | 173.2 | --- | --- | -16.39 | 0.327 | 149.4 | 31.9 | -5.0 | 0.538 |
| 4-1190 | 4-1350 | 1.170 | 307.8 | -25.5 | -16.64 | 1.104 | 24.1 | 0.918 | 1.314 | 150.0 | 174.3 | --- | --- | -12.99 | 0.276 | 136.3 | 30.0 | -5.1 | 0.479 |
| 4-1190 | 4-1370 | 1.118 | 309.8 | -25.0 | -14.25 | 1.101 | 27.3 | 0.895 | 1.303 | 146.1 | 175.6 | --- | --- | -10.85 | 0.251 | 122.6 | 28.3 | -5.2 | 0.437 |
| 4-1190 | 4-1390 | 1.073 | 311.7 | -24.6 | -12.53 | 1.102 | 30.1 | 0.873 | 1.308 | 142.4 | 177.0 | --- | --- | -9.40 | 0.244 | 109.8 | 27.1 | -5.3 | 0.407 |
| 4-1190 | 4-1410 | 1.035 | 313.5 | -24.1 | -11.23 | 1.106 | 32.6 | 0.852 | 1.323 | 138.8 | 178.4 | --- | --- | -8.36 | 0.249 | 99.2 | 26.3 | -5.3 | 0.384 |
| 4-1190 | 4-1430 | 1.000 | 315.4 | -23.7 | -10.19 | 1.111 | 34.9 | 0.833 | 1.344 | 135.3 | 179.8 | --- | --- | -7.59 | 0.261 | 90.8 | 26.0 | -5.4 | 0.368 |
| 4-1190 | 4-1450 | 0.968 | 317.1 | -23.2 | -9.33 | 1.117 | 37.0 | 0.814 | 1.368 | 131.9 | 181.3 | --- | 2.481 | -7.00 | 0.275 | 84.4 | 26.1 | -5.4 | 0.355 |
| 4-1190 | 4-1470 | 0.939 | 318.8 | -22.7 | -8.60 | 1.123 | 39.0 | 0.796 | 1.394 | 128.5 | 182.7 | --- | 2.505 | -6.55 | 0.291 | 79.5 | 26.6 | -5.4 | 0.345 |
| 4-1190 | 4-1490 | 0.911 | 320.4 | -22.2 | -7.96 | 1.130 | 40.8 | 0.780 | 1.422 | 125.1 | 184.2 | --- | 2.531 | -6.20 | 0.307 | 75.6 | 27.5 | -5.5 | 0.337 |
| 4-1190 | 4-1510 | 0.884 | 322.0 | -21.7 | -7.39 | 1.136 | 42.6 | 0.764 | 1.451 | 121.8 | 185.6 | --- | 2.560 | -5.92 | 0.323 | 72.6 | 28.8 | -5.5 | 0.330 |
| 4-1190 | 4-1530 | 0.859 | 323.6 | -21.2 | -6.86 | 1.142 | 44.3 | 0.750 | 1.480 | 118.5 | 187.1 | --- | 2.590 | -5.71 | 0.338 | 70.2 | 30.3 | -5.6 | 0.324 |
| 4-1190 | 4-1550 | 0.835 | 325.1 | -20.6 | -6.38 | 1.147 | 45.9 | 0.736 | 1.509 | 115.3 | 188.5 | --- | 2.620 | -5.55 | 0.352 | 68.3 | 32.1 | -5.7 | 0.320 |
| 4-1190 | 4-1570 | 0.811 | 326.6 | -20.0 | -5.92 | 1.153 | 47.4 | 0.722 | 1.539 | 112.1 | 189.9 | --- | 2.650 | -5.43 | 0.366 | 66.7 | 34.1 | -5.8 | 0.316 |
| 4-1190 | 4-1590 | 0.788 | 328.0 | -19.4 | -5.48 | 1.158 | 48.9 | 0.710 | 1.568 | 108.9 | 191.3 | --- | 2.680 | -5.36 | 0.379 | 65.3 | 36.4 | -5.9 | 0.312 |
| 4-1190 | 4-1610 | 0.765 | 329.5 | -18.7 | -5.05 | 1.163 | 50.3 | 0.698 | 1.596 | 105.8 | 192.8 | --- | 2.710 | -5.32 | 0.392 | 64.2 | 38.8 | -6.1 | 0.309 |
| 4-1190 | 4-1630 | 0.743 | 330.9 | -18.0 | -4.62 | 1.168 | 51.7 | 0.687 | 1.625 | 102.6 | 194.2 | --- | 2.740 | -5.31 | 0.404 | 63.3 | 41.3 | -6.3 | 0.306 |
| 4-1190 | 4-1650 | 0.722 | 332.3 | -17.2 | -4.20 | 1.172 | 53.1 | 0.676 | 1.652 | 99.5 | 195.6 | --- | 2.769 | -5.34 | 0.416 | 62.4 | 44.0 | -6.5 | 0.304 |
| 4-1190 | 4-1670 | 0.701 | 333.6 | -16.4 | -3.77 | 1.176 | 54.4 | 0.666 | 1.679 | 96.4 | 197.1 | --- | 2.798 | -5.40 | 0.427 | 61.7 | 46.9 | -6.7 | 0.302 |
| 4-1190 | 4-1690 | 0.680 | 334.9 | -15.5 | -3.32 | 1.180 | 55.7 | 0.656 | 1.706 | 93.3 | 198.5 | --- | 2.825 | -5.50 | 0.438 | 61.1 | 49.8 | -7.0 | 0.300 |
| 4-1190 | 4-1710 | 0.659 | 336.3 | -14.5 | -2.86 | 1.184 | 57.0 | 0.647 | 1.732 | 90.3 | 200.0 | --- | 2.853 | -5.64 | 0.449 | 60.6 | 52.9 | -7.4 | 0.299 |
| 4-1190 | 4-1730 | 0.639 | 337.5 | -13.4 | -2.36 | 1.188 | 58.3 | 0.638 | 1.758 | 87.2 | 201.5 | --- | 2.879 | -5.83 | 0.459 | 60.1 | 56.1 | -7.8 | 0.298 |
| 4-1190 | 4-1750 | 0.619 | 338.8 | -12.2 | -1.83 | 1.191 | 59.5 | 0.630 | 1.783 | 84.1 | 203.0 | --- | 2.905 | -6.07 | 0.469 | 59.7 | 59.4 | -8.3 | 0.297 |
| 4-1190 | 4-1770 | 0.599 | 340.0 | -10.8 | -1.25 | 1.194 | 60.8 | 0.622 | 1.807 | 81.0 | 204.5 | --- | 2.931 | -6.37 | 0.480 | 59.3 | 62.8 | -8.9 | 0.296 |
| 4-1190 | 4-1790 | 0.580 | 341.1 | -9.2 | -0.59 | 1.197 | 62.0 | 0.614 | 1.831 | 78.0 | 206.0 | --- | 2.955 | -6.75 | 0.490 | 59.0 | 66.3 | -9.6 | 0.296 |
| 4-1190 | 4-1810 | 0.560 | 342.2 | -7.2 | 0.16 | 1.200 | 63.2 | 0.607 | 1.854 | 74.9 | 207.6 | --- | 2.980 | -7.24 | 0.500 | 58.7 | 69.9 | -10.4 | 0.297 |
| 4-1190 | 4-1830 | 0.542 | 343.1 | -4.9 | 1.03 | 1.203 | 64.4 | 0.600 | 1.877 | 71.8 | 209.1 | --- | 3.003 | -7.86 | 0.510 | 58.4 | 73.6 | -11.5 | 0.298 |
| 4-1190 | 4-1850 | 0.524 | 343.8 | -2.1 | 2.09 | 1.205 | 65.6 | 0.594 | 1.899 | 68.6 | 210.7 | --- | 3.026 | -8.67 | 0.519 | 58.2 | 77.5 | -12.8 | 0.300 |
| 4-1190 | 4-1870 | 0.508 | 344.2 | 1.4 | 3.42 | 1.208 | 66.7 | 0.588 | 1.920 | 65.5 | 212.3 | --- | 3.049 | -9.75 | 0.529 | 58.0 | 81.5 | -14.5 | 0.303 |
| 4-1190 | 4-1890 | 0.495 | 344.1 | 5.9 | 5.15 | 1.210 | 67.9 | 0.582 | 1.941 | 62.3 | 213.9 | --- | 3.071 | -11.23 | 0.539 | 57.9 | 85.8 | -16.8 | 0.308 |
| 4-1190 | 4-1910 | 0.488 | 343.0 | 12.0 | 7.55 | 1.212 | 69.1 | 0.577 | 1.962 | 59.1 | 215.6 | --- | 3.093 | -13.40 | 0.549 | 57.7 | 90.4 | -19.8 | 0.317 |
| 4-1190 | 4-1930 | 0.495 | 339.9 | 20.3 | 11.15 | 1.214 | 70.3 | 0.572 | 1.982 | 55.9 | 217.2 | --- | 3.115 | -16.76 | 0.559 | 57.6 | 95.6 | -24.2 | 0.332 |
| 4-1190 | 4-1950 | 0.538 | 332.2 | 31.2 | 17.22 | 1.216 | 71.4 | 0.567 | 2.002 | 52.8 | 218.9 | --- | 3.138 | -22.58 | 0.568 | 57.5 | 102.4 | -30.3 | 0.364 |
| 4-1200 | 4-1340 | 1.341 | 311.2 | -24.2 | -31.32 | 1.110 | 13.8 | 0.973 | 1.330 | 162.8 | 175.6 | --- | --- | -28.12 | 0.298 | 157.8 | 31.8 | -5.2 | 0.589 |
| 4-1200 | 4-1360 | 1.270 | 313.4 | -23.6 | -23.12 | 1.098 | 17.7 | 0.955 | 1.286 | 158.4 | 176.1 | --- | --- | -20.20 | 0.237 | 143.8 | 30.1 | -5.3 | 0.527 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1200 | 4-1380 | 1.213 | 315.6 | -23.1 | -18.46 | 1.095 | 21.1 | 0.936 | 1.274 | 154.3 | 177.0 | --- | --- | -15.83 | 0.206 | 127.2 | 28.8 | -5.3 | 0.482 |
| 4-1200 | 4-1400 | 1.164 | 317.6 | -22.5 | -15.45 | 1.097 | 24.2 | 0.916 | 1.280 | 150.3 | 178.0 | --- | --- | -13.10 | 0.199 | 110.9 | 27.8 | -5.4 | 0.449 |
| 4-1200 | 4-1420 | 1.122 | 319.5 | -21.9 | -13.33 | 1.101 | 27.0 | 0.897 | 1.295 | 146.6 | 179.1 | --- | --- | -11.26 | 0.207 | 97.4 | 27.3 | -5.4 | 0.425 |
| 4-1200 | 4-1440 | 1.085 | 321.4 | -21.3 | -11.74 | 1.106 | 29.5 | 0.878 | 1.316 | 142.9 | 180.4 | --- | 2.471 | -9.95 | 0.223 | 87.3 | 27.3 | -5.4 | 0.406 |
| 4-1200 | 4-1460 | 1.050 | 323.2 | -20.7 | -10.48 | 1.113 | 31.9 | 0.859 | 1.341 | 139.3 | 181.7 | --- | 2.493 | -8.99 | 0.242 | 80.0 | 27.7 | -5.5 | 0.392 |
| 4-1200 | 4-1480 | 1.018 | 324.9 | -20.1 | -9.44 | 1.119 | 34.1 | 0.841 | 1.368 | 135.9 | 183.0 | --- | 2.519 | -8.25 | 0.262 | 74.8 | 28.4 | -5.5 | 0.380 |
| 4-1200 | 4-1500 | 0.988 | 326.5 | -19.5 | -8.57 | 1.126 | 36.1 | 0.824 | 1.396 | 132.4 | 184.3 | --- | 2.547 | -7.68 | 0.282 | 70.9 | 29.5 | -5.5 | 0.370 |
| 4-1200 | 4-1520 | 0.960 | 328.1 | -18.9 | -7.81 | 1.132 | 38.0 | 0.808 | 1.426 | 129.1 | 185.6 | --- | 2.578 | -7.24 | 0.300 | 67.9 | 30.9 | -5.6 | 0.362 |
| 4-1200 | 4-1540 | 0.932 | 329.6 | -18.3 | -7.13 | 1.139 | 39.9 | 0.792 | 1.456 | 125.7 | 187.0 | --- | 2.609 | -6.89 | 0.318 | 65.7 | 32.5 | -5.6 | 0.356 |
| 4-1200 | 4-1560 | 0.906 | 331.1 | -17.7 | -6.52 | 1.145 | 41.6 | 0.778 | 1.486 | 122.5 | 188.3 | --- | 2.641 | -6.62 | 0.335 | 63.9 | 34.4 | -5.7 | 0.350 |
| 4-1200 | 4-1580 | 0.881 | 332.6 | -17.0 | -5.95 | 1.151 | 43.3 | 0.763 | 1.516 | 119.2 | 189.7 | --- | 2.673 | -6.41 | 0.351 | 62.5 | 36.6 | -5.8 | 0.344 |
| 4-1200 | 4-1600 | 0.856 | 334.0 | -16.3 | -5.42 | 1.156 | 44.9 | 0.750 | 1.546 | 116.0 | 191.1 | --- | 2.705 | -6.25 | 0.366 | 61.4 | 38.9 | -5.9 | 0.340 |
| 4-1200 | 4-1620 | 0.832 | 335.3 | -15.6 | -4.91 | 1.161 | 46.4 | 0.737 | 1.575 | 112.8 | 192.5 | --- | 2.736 | -6.14 | 0.380 | 60.4 | 41.3 | -6.0 | 0.336 |
| 4-1200 | 4-1640 | 0.809 | 336.7 | -14.8 | -4.42 | 1.166 | 47.9 | 0.724 | 1.604 | 109.7 | 193.9 | --- | 2.766 | -6.07 | 0.394 | 59.7 | 43.9 | -6.2 | 0.332 |
| 4-1200 | 4-1660 | 0.786 | 338.0 | -14.0 | -3.94 | 1.171 | 49.4 | 0.713 | 1.633 | 106.5 | 195.3 | --- | 2.798 | -6.04 | 0.407 | 59.0 | 46.7 | -6.4 | 0.329 |
| 4-1200 | 4-1680 | 0.763 | 339.3 | -13.2 | -3.46 | 1.175 | 50.8 | 0.701 | 1.661 | 103.4 | 196.7 | --- | 2.826 | -6.05 | 0.419 | 58.5 | 49.5 | -6.6 | 0.326 |
| 4-1200 | 4-1700 | 0.741 | 340.6 | -12.3 | -2.98 | 1.180 | 52.2 | 0.690 | 1.689 | 100.3 | 198.1 | --- | 2.854 | -6.09 | 0.431 | 58.0 | 52.5 | -6.9 | 0.323 |
| 4-1200 | 4-1720 | 0.719 | 341.8 | -11.3 | -2.48 | 1.184 | 53.6 | 0.680 | 1.716 | 97.2 | 199.6 | --- | 2.882 | -6.18 | 0.443 | 57.6 | 55.6 | -7.2 | 0.321 |
| 4-1200 | 4-1740 | 0.698 | 343.0 | -10.2 | -1.96 | 1.187 | 54.9 | 0.670 | 1.742 | 94.1 | 201.0 | --- | 2.910 | -6.31 | 0.454 | 57.3 | 58.8 | -7.6 | 0.319 |
| 4-1200 | 4-1760 | 0.677 | 344.2 | -9.0 | -1.42 | 1.191 | 56.2 | 0.661 | 1.768 | 91.0 | 202.5 | --- | 2.936 | -6.49 | 0.466 | 57.0 | 62.1 | -8.0 | 0.318 |
| 4-1200 | 4-1780 | 0.656 | 345.3 | -7.7 | -0.84 | 1.194 | 57.5 | 0.652 | 1.793 | 87.9 | 204.0 | --- | 2.962 | -6.72 | 0.476 | 56.8 | 65.5 | -8.5 | 0.317 |
| 4-1200 | 4-1800 | 0.635 | 346.4 | -6.2 | -0.21 | 1.197 | 58.8 | 0.643 | 1.818 | 84.8 | 205.5 | --- | 2.987 | -7.03 | 0.487 | 56.6 | 69.0 | -9.1 | 0.316 |
| 4-1200 | 4-1820 | 0.615 | 347.4 | -4.5 | 0.50 | 1.200 | 60.1 | 0.635 | 1.842 | 81.7 | 207.1 | --- | 3.011 | -7.41 | 0.498 | 56.4 | 72.6 | -9.8 | 0.315 |
| 4-1200 | 4-1840 | 0.595 | 348.3 | -2.5 | 1.30 | 1.203 | 61.3 | 0.627 | 1.866 | 78.6 | 208.7 | --- | 3.035 | -7.90 | 0.508 | 56.3 | 76.4 | -10.6 | 0.316 |
| 4-1200 | 4-1860 | 0.576 | 349.1 | -0.2 | 2.22 | 1.206 | 62.6 | 0.619 | 1.889 | 75.4 | 210.2 | --- | 3.058 | -8.52 | 0.519 | 56.2 | 80.2 | -11.6 | 0.317 |
| 4-1200 | 4-1880 | 0.558 | 349.7 | 2.6 | 3.33 | 1.209 | 63.8 | 0.612 | 1.911 | 72.3 | 211.8 | --- | 3.081 | -9.33 | 0.529 | 56.1 | 84.2 | -12.9 | 0.318 |
| 4-1200 | 4-1900 | 0.542 | 350.0 | 6.1 | 4.69 | 1.211 | 65.1 | 0.605 | 1.933 | 69.1 | 213.5 | --- | 3.103 | -10.41 | 0.539 | 56.0 | 88.3 | -14.6 | 0.321 |
| 4-1200 | 4-1920 | 0.529 | 349.7 | 10.4 | 6.44 | 1.213 | 66.3 | 0.598 | 1.955 | 65.8 | 215.1 | --- | 3.124 | -11.88 | 0.550 | 56.0 | 92.7 | -16.7 | 0.326 |
| 4-1200 | 4-1940 | 0.522 | 348.5 | 16.1 | 8.82 | 1.216 | 67.6 | 0.592 | 1.976 | 62.6 | 216.8 | --- | 3.146 | -13.97 | 0.560 | 56.0 | 97.4 | -19.6 | 0.335 |
| 4-1200 | 4-1960 | 0.529 | 345.5 | 23.4 | 12.27 | 1.218 | 68.8 | 0.586 | 1.996 | 59.3 | 218.4 | --- | 3.167 | -17.14 | 0.570 | 56.0 | 102.7 | -23.5 | 0.349 |
| 4-1210 | 4-1350 | 1.446 | 316.7 | -22.4 | -59.48 | 1.110 | 8.5 | 0.990 | 1.323 | 169.5 | 177.4 | --- | --- | -57.00 | 0.285 | 166.0 | 32.5 | -5.1 | 0.645 |
| 4-1210 | 4-1370 | 1.370 | 319.2 | -21.7 | -37.04 | 1.096 | 11.6 | 0.981 | 1.271 | 166.0 | 177.6 | --- | --- | -34.86 | 0.209 | 154.0 | 31.1 | -5.2 | 0.578 |
| 4-1210 | 4-1390 | 1.308 | 321.4 | -20.9 | -26.35 | 1.092 | 15.0 | 0.967 | 1.256 | 161.9 | 178.0 | --- | --- | -24.47 | 0.167 | 135.3 | 30.0 | -5.3 | 0.530 |
| 4-1210 | 4-1410 | 1.256 | 323.5 | -20.2 | -20.42 | 1.093 | 18.3 | 0.951 | 1.259 | 157.9 | 178.7 | --- | --- | -18.84 | 0.154 | 113.9 | 29.3 | -5.3 | 0.495 |
| 4-1210 | 4-1430 | 1.210 | 325.5 | -19.5 | -16.68 | 1.097 | 21.3 | 0.935 | 1.273 | 154.0 | 179.6 | --- | --- | -15.40 | 0.164 | 95.8 | 29.0 | -5.3 | 0.468 |
| 4-1210 | 4-1450 | 1.170 | 327.4 | -18.8 | -14.09 | 1.103 | 24.1 | 0.917 | 1.294 | 150.2 | 180.6 | --- | 2.480 | -13.11 | 0.184 | 83.1 | 29.2 | -5.3 | 0.447 |
| 4-1210 | 4-1470 | 1.133 | 329.2 | -18.2 | -12.17 | 1.109 | 26.7 | 0.900 | 1.318 | 146.6 | 181.7 | --- | 2.504 | -11.49 | 0.208 | 74.8 | 29.7 | -5.3 | 0.430 |
| 4-1210 | 4-1490 | 1.098 | 331.0 | -17.5 | -10.67 | 1.116 | 29.0 | 0.883 | 1.345 | 143.0 | 182.9 | --- | 2.532 | -10.31 | 0.232 | 69.2 | 30.6 | -5.3 | 0.417 |
| 4-1210 | 4-1510 | 1.066 | 332.6 | -16.8 | -9.46 | 1.123 | 31.2 | 0.866 | 1.373 | 139.5 | 184.1 | --- | 2.563 | -9.41 | 0.256 | 65.4 | 31.8 | -5.4 | 0.406 |
| 4-1210 | 4-1530 | 1.036 | 334.2 | -16.1 | -8.44 | 1.130 | 33.3 | 0.850 | 1.403 | 136.1 | 185.4 | --- | 2.595 | -8.71 | 0.278 | 62.6 | 33.3 | -5.4 | 0.396 |
| 4-1210 | 4-1550 | 1.007 | 335.7 | -15.4 | -7.56 | 1.136 | 35.3 | 0.834 | 1.433 | 132.7 | 186.7 | --- | 2.629 | -8.17 | 0.298 | 60.6 | 35.1 | -5.5 | 0.388 |
| 4-1210 | 4-1570 | 0.979 | 337.2 | -14.7 | -6.79 | 1.143 | 37.2 | 0.819 | 1.464 | 129.4 | 188.0 | --- | 2.662 | -7.73 | 0.318 | 59.1 | 37.1 | -5.5 | 0.381 |
| 4-1210 | 4-1590 | 0.952 | 338.6 | -14.0 | -6.09 | 1.149 | 39.0 | 0.804 | 1.494 | 126.2 | 189.3 | --- | 2.695 | -7.39 | 0.335 | 57.9 | 39.2 | -5.6 | 0.375 |
| 4-1210 | 4-1610 | 0.926 | 339.9 | -13.2 | -5.45 | 1.155 | 40.7 | 0.790 | 1.524 | 122.9 | 190.6 | --- | 2.728 | -7.13 | 0.352 | 57.0 | 41.6 | -5.7 | 0.369 |
| 4-1210 | 4-1630 | 0.901 | 341.3 | -12.5 | -4.85 | 1.160 | 42.4 | 0.776 | 1.555 | 119.7 | 191.9 | --- | 2.761 | -8.92 | 0.368 | 56.3 | 44.1 | -5.8 | 0.364 |
| 4-1210 | 4-1650 | 0.876 | 342.6 | -11.7 | -4.29 | 1.165 | 44.0 | 0.763 | 1.584 | 116.5 | 193.3 | --- | 2.792 | -8.77 | 0.383 | 55.7 | 46.7 | -6.0 | 0.359 |
| 4-1210 | 4-1670 | 0.852 | 343.9 | -10.8 | -3.74 | 1.170 | 45.6 | 0.750 | 1.614 | 113.4 | 194.7 | --- | 2.824 | -8.67 | 0.397 | 55.3 | 49.5 | -6.1 | 0.355 |
| 4-1210 | 4-1690 | 0.828 | 345.1 | -10.0 | -3.21 | 1.175 | 47.1 | 0.738 | 1.642 | 110.3 | 196.1 | --- | 2.854 | -8.61 | 0.411 | 54.9 | 52.4 | -6.3 | 0.351 |
| 4-1210 | 4-1710 | 0.805 | 346.3 | -9.1 | -2.69 | 1.179 | 48.6 | 0.726 | 1.671 | 107.1 | 197.5 | --- | 2.883 | -8.59 | 0.424 | 54.7 | 55.4 | -6.6 | 0.348 |
| 4-1210 | 4-1730 | 0.782 | 347.5 | -8.1 | -2.16 | 1.183 | 50.0 | 0.714 | 1.699 | 104.0 | 198.9 | --- | 2.912 | -8.62 | 0.437 | 54.4 | 58.5 | -6.8 | 0.345 |
| 4-1210 | 4-1750 | 0.759 | 348.7 | -7.0 | -1.62 | 1.187 | 51.5 | 0.703 | 1.726 | 100.9 | 200.4 | --- | 2.940 | -8.68 | 0.449 | 54.3 | 61.7 | -7.1 | 0.342 |
| 4-1210 | 4-1770 | 0.737 | 349.8 | -5.9 | -1.07 | 1.191 | 52.8 | 0.693 | 1.753 | 97.8 | 201.9 | --- | 2.967 | -8.80 | 0.461 | 54.1 | 65.0 | -7.5 | 0.340 |
| 4-1210 | 4-1790 | 0.714 | 350.9 | -4.6 | -0.49 | 1.194 | 54.2 | 0.683 | 1.779 | 94.7 | 203.4 | --- | 2.993 | -8.96 | 0.473 | 54.0 | 68.4 | -7.9 | 0.338 |
| 4-1210 | 4-1810 | 0.693 | 352.0 | -3.3 | 0.12 | 1.198 | 55.6 | 0.673 | 1.804 | 91.6 | 204.9 | --- | 3.019 | -7.18 | 0.485 | 54.0 | 71.9 | -8.4 | 0.337 |
| 4-1210 | 4-1830 | 0.671 | 353.0 | -1.7 | 0.79 | 1.201 | 56.9 | 0.664 | 1.829 | 88.4 | 206.4 | --- | 3.043 | -7.47 | 0.496 | 54.0 | 75.5 | -8.9 | 0.336 |
| 4-1210 | 4-1850 | 0.650 | 353.9 | -0.0 | 1.53 | 1.204 | 58.2 | 0.654 | 1.854 | 85.3 | 208.0 | --- | 3.067 | -7.84 | 0.507 | 54.0 | 79.2 | -9.6 | 0.335 |
| 4-1210 | 4-1870 | 0.630 | 354.8 | 2.0 | 2.35 | 1.207 | 59.6 | 0.646 | 1.878 | 82.1 | 209.6 | --- | 3.090 | -8.32 | 0.518 | 54.0 | 83.0 | -10.4 | 0.335 |
| 4-1210 | 4-1890 | 0.610 | 355.5 | 4.3 | 3.30 | 1.210 | 60.9 | 0.637 | 1.901 | 78.9 | 211.2 | --- | 3.113 | -8.93 | 0.529 | 54.0 | 87.0 | -11.4 | 0.335 |
| 4-1210 | 4-1910 | 0.592 | 356.0 | 7.0 | 4.43 | 1.212 | 62.2 | 0.629 | 1.924 | 75.7 | 212.8 | --- | 3.135 | -9.72 | 0.540 | 54.1 | 91.0 | -12.6 | 0.337 |
| 4-1210 | 4-1930 | 0.575 | 356.2 | 10.4 | 5.80 | 1.215 | 63.5 | 0.622 | 1.947 | 72.4 | 214.5 | --- | 3.157 | -10.76 | 0.550 | 54.2 | 95.3 | -14.2 | 0.340 |
| 4-1210 | 4-1950 | 0.562 | 355.9 | 14.5 | 7.53 | 1.217 | 64.8 | 0.614 | 1.969 | 69.1 | 216.2 | --- | 3.178 | -12.18 | 0.561 | 54.3 | 99.7 | -16.2 | 0.344 |
| 4-1210 | 4-1970 | 0.554 | 354.7 | 19.7 | 9.85 | 1.219 | 66.1 | 0.607 | 1.990 | 65.8 | 217.9 | --- | 3.199 | -14.17 | 0.571 | 54.4 | 104.5 | -18.8 | 0.352 |
| 4-1220 | 4-1380 | 1.468 | 324.9 | -19.5 | -73.19 | 1.098 | 7.3 | 0.992 | 1.269 | 171.1 | 178.5 | --- | --- | -71.76 | 0.198 | 163.0 | 32.7 | -5.0 | 0.632 |
| 4-1220 | 4-1400 | 1.402 | 327.3 | -18.7 | -44.47 | 1.092 | 9.5 | 0.987 | 1.247 | 168.6 | 178.8 | --- | --- | -43.35 | 0.138 | 147.5 | 31.8 | -5.0 | 0.580 |
| 4-1220 | 4-1420 | 1.346 | 329.5 | -17.8 | -30.27 | 1.092 | 12.6 | 0.977 | 1.246 | 164.9 | 179.2 | --- | --- | -29.47 | 0.113 | 120.7 | 31.3 | -5.1 | 0.541 |
| 4-1220 | 4-1440 | 1.298 | 331.6 | -17.0 | -22.64 | 1.095 | 15.7 | 0.964 | 1.258 | 161.1 | 179.8 | --- | --- | -22.14 | 0.120 | 94.5 | 31.2 | -5.1 | 0.512 |
| 4-1220 | 4-1460 | 1.255 | 333.5 | -16.3 | -17.97 | 1.100 | 18.6 | 0.950 | 1.276 | 157.3 | 180.7 | --- | 2.489 | -17.78 | 0.145 | 77.7 | 31.5 | -5.1 | 0.489 |
| 4-1220 | 4-1480 | 1.215 | 335.3 | -15.5 | -14.82 | 1.107 | 21.3 | 0.935 | 1.300 | 153.6 | 181.6 | --- | 2.515 | -14.94 | 0.174 | 68.1 | 32.2 | -5.1 | 0.470 |
| 4-1220 | 4-1500 | 1.179 | 337.0 | -14.7 | -12.53 | 1.114 | 23.9 | 0.920 | 1.326 | 150.0 | 182.6 | --- | 2.545 | -12.96 | 0.203 | 62.4 | 33.2 | -5.1 | 0.455 |
| 4-1220 | 4-1520 | 1.145 | 338.7 | -14.0 | -10.78 | 1.121 | 26.3 | 0.904 | 1.354 | 146.4 | 183.8 | --- | 2.578 | -11.53 | 0.230 | 58.8 | 34.5 | -5.1 | 0.442 |
| 4-1220 | 4-1540 | 1.113 | 340.3 | -13.2 | -9.37 | 1.128 | 28.5 | 0.888 | 1.383 | 143.0 | 184.9 | --- | 2.612 | -10.44 | 0.255 | 56.5 | 36.1 | -5.1 | 0.431 |
| 4-1220 | 4-1560 | 1.082 | 341.8 | -12.5 | -8.21 | 1.134 | 30.7 | 0.873 | 1.413 | 139.6 | 186.1 | --- | 2.647 | -9.61 | 0.279 | 54.8 | 37.9 | -5.2 | 0.422 |
| 4-1220 | 4-1580 | 1.053 | 343.2 | -11.7 | -7.21 | 1.141 | 32.7 | 0.858 | 1.444 | 136.2 | 187.4 | --- | 2.682 | -8.95 | 0.300 | 53.7 | 39.9 | -5.2 | 0.413 |
| 4-1220 | 4-1600 | 1.025 | 344.6 | -10.9 | -6.35 | 1.147 | 34.6 | 0.843 | 1.474 | 132.9 | 188.6 | --- | 2.716 | -8.44 | 0.320 | 52.8 | 42.1 | -5.3 | 0.406 |
| 4-1220 | 4-1620 | 0.997 | 346.0 | -10.1 | -5.57 | 1.153 | 36.5 | 0.828 | 1.505 | 129.7 | 189.9 | --- | 2.751 | -8.02 | 0.339 | 52.3 | 44.5 | -5.4 | 0.399 |
| 4-1220 | 4-1640 | 0.970 | 347.3 | -9.3 | -4.87 | 1.159 | 38.3 | 0.814 | 1.535 | 126.5 | 191.2 | --- | 2.785 | -7.70 | 0.356 | 51.8 | 47.0 | -5.5 | 0.393 |
| 4-1220 | 4-1660 | 0.944 | 348.6 | -8.5 | -4.21 | 1.164 | 40.0 | 0.800 | 1.565 | 123.3 | 192.5 | --- | 2.818 | -7.44 | 0.373 | 51.5 | 49.7 | -5.6 | 0.388 |
| 4-1220 | 4-1680 | 0.919 | 349.8 | -7.7 | -3.60 | 1.169 | 41.6 | 0.787 | 1.595 | 120.1 | 193.9 | --- | 2.850 | -7.25 | 0.388 | 51.3 | 52.4 | -5.7 | 0.383 |
| 4-1220 | 4-1700 | 0.894 | 351.1 | -6.8 | -3.01 | 1.174 | 43.3 | 0.774 | 1.624 | 116.9 | 195.3 | --- | 2.881 | -7.11 | 0.403 | 51.2 | 55.3 | -5.9 | 0.378 |
| 4-1220 | 4-1720 | 0.869 | 352.3 | -5.9 | -2.44 | 1.179 | 44.8 | 0.761 | 1.653 | 113.8 | 196.7 | --- | 2.912 | -7.01 | 0.417 | 51.1 | 58.3 | -6.1 | 0.374 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1220 | 4-1740 | 0.845 | 353.4 | -4.9 | -1.88 | 1.183 | 46.4 | 0.749 | 1.681 | 110.7 | 198.1 | --- | 2.941 | -6.97 | 0.431 | 51.0 | 61.5 | -6.3 | 0.370 |
| 4-1220 | 4-1760 | 0.821 | 354.6 | -3.9 | -1.32 | 1.187 | 47.9 | 0.737 | 1.709 | 107.5 | 199.5 | --- | 2.970 | -6.96 | 0.444 | 51.0 | 64.7 | -6.6 | 0.367 |
| 4-1220 | 4-1780 | 0.798 | 355.7 | -2.8 | -0.76 | 1.191 | 49.4 | 0.726 | 1.737 | 104.4 | 201.0 | --- | 2.998 | -7.01 | 0.457 | 51.1 | 68.0 | -6.8 | 0.364 |
| 4-1220 | 4-1800 | 0.774 | 356.8 | -1.6 | -0.18 | 1.195 | 50.8 | 0.715 | 1.764 | 101.3 | 202.5 | --- | 3.024 | -7.09 | 0.470 | 51.1 | 71.4 | -7.2 | 0.361 |
| 4-1220 | 4-1820 | 0.752 | 357.8 | -0.4 | 0.42 | 1.198 | 52.3 | 0.704 | 1.790 | 98.1 | 204.0 | --- | 3.050 | -7.24 | 0.482 | 51.2 | 74.9 | -7.6 | 0.359 |
| 4-1220 | 4-1840 | 0.729 | 358.8 | 1.0 | 1.06 | 1.202 | 53.7 | 0.694 | 1.816 | 95.0 | 205.6 | --- | 3.075 | -7.44 | 0.494 | 51.4 | 78.5 | -8.0 | 0.357 |
| 4-1220 | 4-1860 | 0.707 | 359.8 | 2.6 | 1.74 | 1.205 | 55.1 | 0.683 | 1.841 | 91.8 | 207.1 | --- | 3.100 | -7.70 | 0.505 | 51.5 | 82.2 | -8.6 | 0.355 |
| 4-1220 | 4-1880 | 0.685 | 0.7 | 4.3 | 2.49 | 1.208 | 56.5 | 0.674 | 1.866 | 88.6 | 208.7 | --- | 3.123 | -8.05 | 0.517 | 51.6 | 86.0 | -9.2 | 0.355 |
| 4-1220 | 4-1900 | 0.664 | 1.5 | 6.3 | 3.33 | 1.211 | 57.8 | 0.664 | 1.890 | 85.4 | 210.4 | --- | 3.146 | -8.50 | 0.528 | 51.8 | 89.9 | -10.0 | 0.354 |
| 4-1220 | 4-1920 | 0.643 | 2.2 | 8.5 | 4.28 | 1.213 | 59.2 | 0.655 | 1.914 | 82.1 | 212.0 | --- | 3.168 | -9.08 | 0.540 | 52.0 | 93.9 | -10.9 | 0.355 |
| 4-1220 | 4-1940 | 0.624 | 2.7 | 11.2 | 5.40 | 1.216 | 60.6 | 0.646 | 1.937 | 78.9 | 213.7 | --- | 3.190 | -9.84 | 0.551 | 52.2 | 98.1 | -12.1 | 0.356 |
| 4-1220 | 4-1960 | 0.607 | 2.9 | 14.4 | 6.75 | 1.218 | 62.0 | 0.638 | 1.960 | 75.5 | 215.4 | --- | 3.211 | -10.83 | 0.562 | 52.4 | 102.4 | -13.5 | 0.358 |
| 4-1220 | 4-1980 | 0.593 | 2.6 | 18.3 | 8.44 | 1.221 | 63.3 | 0.630 | 1.983 | 72.2 | 217.1 | --- | 3.231 | -12.17 | 0.573 | 52.6 | 106.9 | -15.4 | 0.362 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1420 | 4-1640 | 0.830 | 17.0 | 15.6 | 6.35 | 1.297 | 128.4 | 0.822 | 3.199 | 272.5 | 496.5 | 0.570 | --- | -10.20 | 0.882 | 144.5 | 152.1 | -6.8 | 0.589 |
| 4-1420 | 4-1660 | 0.767 | 17.0 | 14.8 | 5.27 | 1.261 | 126.2 | 0.761 | 2.478 | 272.9 | 501.4 | 0.592 | --- | -9.45 | 0.612 | 139.5 | 153.4 | -7.3 | 0.510 |
| 4-1420 | 4-1680 | 0.718 | 17.0 | 13.9 | 4.33 | 1.235 | 124.4 | 0.714 | 2.130 | 273.3 | 506.3 | 0.609 | --- | -8.85 | 0.555 | 134.3 | 154.3 | -7.9 | 0.443 |
| 4-1420 | 4-1700 | 0.680 | 17.1 | 13.0 | 3.50 | 1.215 | 122.9 | 0.677 | 1.932 | 273.7 | 511.1 | 0.624 | --- | -8.38 | 0.510 | 128.8 | 154.5 | -8.6 | 0.388 |
| 4-1420 | 4-1720 | 0.651 | 17.4 | 12.0 | 2.74 | 1.201 | 121.8 | 0.649 | 1.808 | 273.9 | 515.9 | 0.635 | --- | -8.00 | 0.475 | 123.0 | 154.1 | -9.4 | 0.341 |
| 4-1420 | 4-1740 | 0.630 | 17.6 | 11.1 | 2.05 | 1.190 | 120.9 | 0.627 | 1.726 | 274.0 | 520.5 | 0.643 | --- | -7.70 | 0.448 | 117.1 | 152.9 | -10.2 | 0.303 |
| 4-1420 | 4-1760 | 0.615 | 18.0 | 10.1 | 1.40 | 1.182 | 120.4 | 0.612 | 1.671 | 273.9 | 525.0 | 0.648 | --- | -7.46 | 0.429 | 111.1 | 150.8 | -11.0 | 0.272 |
| 4-1420 | 4-1780 | 0.605 | 18.5 | 9.3 | 0.78 | 1.176 | 120.0 | 0.602 | 1.633 | 273.7 | 529.4 | 0.650 | --- | -7.28 | 0.415 | 105.2 | 147.9 | -11.8 | 0.248 |
| 4-1420 | 4-1800 | 0.601 | 19.1 | 8.4 | 0.18 | 1.171 | 119.9 | 0.596 | 1.606 | 273.2 | 533.5 | 0.649 | --- | -7.16 | 0.406 | 99.4 | 144.1 | -12.5 | 0.231 |
| 4-1420 | 4-1820 | 0.602 | 19.8 | 7.6 | -0.41 | 1.168 | 120.1 | 0.594 | 1.589 | 272.5 | 537.4 | 0.645 | --- | -7.08 | 0.402 | 93.7 | 139.9 | -12.9 | 0.221 |
| 4-1420 | 4-1840 | 0.607 | 20.7 | 6.9 | -0.99 | 1.167 | 120.4 | 0.596 | 1.578 | 271.4 | 541.1 | 0.638 | 2.518 | -7.06 | 0.401 | 88.3 | 135.5 | -13.1 | 0.217 |
| 4-1420 | 4-1860 | 0.617 | 21.6 | 6.3 | -1.58 | 1.166 | 121.0 | 0.601 | 1.572 | 270.1 | 544.6 | 0.627 | 2.516 | -7.08 | 0.403 | 83.2 | 131.5 | -13.0 | 0.220 |
| 4-1420 | 4-1880 | 0.631 | 22.7 | 5.8 | -2.18 | 1.165 | 121.7 | 0.609 | 1.569 | 268.5 | 547.8 | 0.613 | 2.525 | -7.15 | 0.407 | 78.3 | 128.2 | -12.6 | 0.228 |
| 4-1420 | 4-1900 | 0.649 | 23.9 | 5.4 | -2.81 | 1.165 | 122.8 | 0.621 | 1.570 | 266.6 | 550.7 | 0.596 | 2.544 | -7.28 | 0.414 | 73.6 | 126.0 | -12.1 | 0.241 |
| 4-1420 | 4-1920 | 0.672 | 25.3 | 5.1 | -3.48 | 1.166 | 124.0 | 0.635 | 1.573 | 264.2 | 553.3 | 0.574 | 2.572 | -7.47 | 0.422 | 69.1 | 124.8 | -11.5 | 0.258 |
| 4-1420 | 4-1940 | 0.700 | 26.8 | 5.0 | -4.19 | 1.167 | 125.5 | 0.652 | 1.578 | 261.5 | 555.5 | 0.548 | 2.608 | -7.73 | 0.431 | 64.8 | 124.6 | -10.8 | 0.279 |
| 4-1420 | 4-1960 | 0.733 | 28.5 | 4.9 | -4.97 | 1.168 | 127.3 | 0.673 | 1.585 | 258.4 | 557.4 | 0.518 | 2.652 | -8.08 | 0.441 | 60.6 | 125.5 | -10.2 | 0.304 |
| 4-1420 | 4-1980 | 0.771 | 30.3 | 5.0 | -5.85 | 1.169 | 129.5 | 0.697 | 1.593 | 254.8 | 559.0 | 0.483 | 2.703 | -8.54 | 0.462 | 56.4 | 127.2 | -9.7 | 0.333 |
| 4-1420 | 4-2000 | 0.817 | 32.3 | 5.3 | -6.86 | 1.171 | 131.9 | 0.724 | 1.603 | 250.7 | 560.1 | 0.442 | 2.763 | -9.15 | 0.464 | 52.2 | 129.8 | -9.2 | 0.366 |
| 4-1420 | 4-2020 | 0.869 | 34.5 | 5.7 | -8.06 | 1.173 | 134.9 | 0.755 | 1.614 | 246.0 | 560.7 | 0.396 | 2.831 | -9.95 | 0.476 | 47.8 | 133.1 | -8.7 | 0.403 |
| 4-1420 | 4-2040 | 0.929 | 37.0 | 6.2 | -9.52 | 1.175 | 138.2 | 0.788 | 1.626 | 240.7 | 560.7 | 0.344 | 2.908 | -11.02 | 0.488 | 43.3 | 137.2 | -8.3 | 0.444 |
| 4-1420 | 4-2060 | 0.999 | 39.7 | 6.9 | -11.39 | 1.177 | 142.1 | 0.825 | 1.639 | 234.7 | 560.1 | 0.288 | 2.991 | -12.51 | 0.500 | 38.5 | 141.9 | -7.9 | 0.491 |
| 4-1420 | 4-2080 | 1.078 | 42.8 | 7.7 | -13.89 | 1.179 | 146.6 | 0.863 | 1.654 | 227.9 | 558.9 | 0.227 | 3.081 | -14.64 | 0.513 | 33.4 | 147.3 | -7.5 | 0.544 |
| 4-1420 | 4-2100 | 1.166 | 46.1 | 8.7 | -17.51 | 1.182 | 151.7 | 0.901 | 1.671 | 220.4 | 556.8 | 0.166 | 3.175 | -17.89 | 0.526 | 27.8 | 153.4 | -7.2 | 0.603 |
| 4-1430 | 4-1650 | 0.799 | 23.5 | 19.7 | 7.03 | 1.302 | 126.4 | 0.820 | 3.393 | 277.3 | 493.8 | 0.610 | --- | -11.45 | 0.695 | 143.9 | 155.7 | -7.9 | 0.595 |
| 4-1430 | 4-1670 | 0.735 | 23.5 | 18.5 | 5.65 | 1.266 | 124.1 | 0.755 | 2.582 | 277.9 | 498.8 | 0.632 | --- | -10.37 | 0.625 | 139.0 | 157.2 | -8.2 | 0.514 |
| 4-1430 | 4-1690 | 0.684 | 23.5 | 17.2 | 4.50 | 1.239 | 122.3 | 0.704 | 2.200 | 278.4 | 503.9 | 0.651 | --- | -9.53 | 0.589 | 133.9 | 158.4 | -8.7 | 0.447 |
| 4-1430 | 4-1710 | 0.645 | 23.7 | 16.0 | 3.51 | 1.219 | 120.8 | 0.665 | 1.985 | 278.9 | 508.8 | 0.686 | --- | -8.87 | 0.524 | 128.6 | 158.9 | -9.3 | 0.391 |
| 4-1430 | 4-1730 | 0.614 | 23.9 | 14.8 | 2.64 | 1.204 | 119.6 | 0.634 | 1.851 | 279.2 | 513.7 | 0.678 | --- | -8.34 | 0.489 | 123.0 | 158.9 | -10.0 | 0.344 |
| 4-1430 | 4-1750 | 0.591 | 24.1 | 13.6 | 1.87 | 1.192 | 118.7 | 0.610 | 1.763 | 279.5 | 518.5 | 0.687 | --- | -7.91 | 0.463 | 117.3 | 158.1 | -10.7 | 0.304 |
| 4-1430 | 4-1770 | 0.575 | 24.5 | 12.5 | 1.16 | 1.184 | 118.0 | 0.593 | 1.703 | 279.5 | 523.2 | 0.693 | --- | -7.57 | 0.443 | 111.6 | 156.4 | -11.5 | 0.272 |
| 4-1430 | 4-1790 | 0.564 | 25.0 | 11.4 | 0.50 | 1.178 | 117.6 | 0.581 | 1.661 | 279.4 | 527.7 | 0.697 | --- | -7.30 | 0.429 | 106.0 | 153.9 | -12.3 | 0.246 |
| 4-1430 | 4-1810 | 0.558 | 25.6 | 10.4 | -0.12 | 1.173 | 117.4 | 0.573 | 1.633 | 279.1 | 532.0 | 0.697 | --- | -7.10 | 0.420 | 100.5 | 150.5 | -13.0 | 0.227 |
| 4-1430 | 4-1830 | 0.557 | 26.3 | 9.4 | -0.72 | 1.170 | 117.4 | 0.569 | 1.613 | 278.5 | 536.1 | 0.695 | --- | -6.94 | 0.415 | 95.1 | 146.5 | -13.5 | 0.214 |
| 4-1430 | 4-1850 | 0.560 | 27.1 | 8.6 | -1.30 | 1.168 | 117.7 | 0.569 | 1.600 | 277.7 | 540.0 | 0.690 | --- | -6.84 | 0.414 | 90.0 | 142.1 | -13.7 | 0.208 |
| 4-1430 | 4-1870 | 0.567 | 28.0 | 7.9 | -1.87 | 1.167 | 118.1 | 0.572 | 1.593 | 276.6 | 543.6 | 0.682 | 2.504 | -6.79 | 0.416 | 85.2 | 137.9 | -13.7 | 0.207 |
| 4-1430 | 4-1890 | 0.578 | 29.0 | 7.3 | -2.44 | 1.166 | 118.7 | 0.578 | 1.589 | 275.2 | 547.0 | 0.670 | 2.508 | -6.78 | 0.420 | 80.6 | 134.2 | -13.3 | 0.212 |
| 4-1430 | 4-1910 | 0.593 | 30.2 | 6.8 | -3.03 | 1.166 | 119.5 | 0.587 | 1.589 | 273.4 | 550.2 | 0.656 | 2.522 | -6.83 | 0.426 | 76.2 | 131.4 | -12.8 | 0.222 |
| 4-1430 | 4-1930 | 0.613 | 31.5 | 6.4 | -3.64 | 1.166 | 120.6 | 0.599 | 1.591 | 271.3 | 553.0 | 0.637 | 2.544 | -6.93 | 0.433 | 72.0 | 129.7 | -12.1 | 0.237 |
| 4-1430 | 4-1950 | 0.636 | 32.9 | 6.2 | -4.27 | 1.167 | 121.9 | 0.614 | 1.595 | 268.8 | 555.6 | 0.615 | 2.574 | -7.08 | 0.442 | 68.0 | 129.0 | -11.4 | 0.255 |
| 4-1430 | 4-1970 | 0.665 | 34.5 | 6.1 | -4.96 | 1.168 | 123.4 | 0.632 | 1.600 | 266.0 | 557.8 | 0.589 | 2.612 | -7.31 | 0.452 | 64.1 | 129.3 | -10.8 | 0.277 |
| 4-1430 | 4-1990 | 0.699 | 36.3 | 6.1 | -5.70 | 1.169 | 125.3 | 0.653 | 1.608 | 262.7 | 559.7 | 0.557 | 2.658 | -7.62 | 0.462 | 60.2 | 130.6 | -10.1 | 0.302 |
| 4-1430 | 4-2010 | 0.738 | 38.2 | 6.3 | -6.53 | 1.171 | 127.4 | 0.678 | 1.616 | 258.9 | 561.2 | 0.521 | 2.712 | -8.03 | 0.473 | 56.4 | 132.7 | -9.6 | 0.331 |
| 4-1430 | 4-2030 | 0.784 | 40.3 | 6.6 | -7.48 | 1.172 | 129.9 | 0.705 | 1.626 | 254.8 | 562.2 | 0.479 | 2.774 | -8.58 | 0.484 | 52.4 | 135.6 | -9.0 | 0.364 |
| 4-1430 | 4-2050 | 0.837 | 42.6 | 7.1 | -8.60 | 1.174 | 132.9 | 0.737 | 1.637 | 249.7 | 562.8 | 0.431 | 2.844 | -9.30 | 0.496 | 48.3 | 139.3 | -8.6 | 0.402 |
| 4-1430 | 4-2070 | 0.899 | 45.1 | 7.7 | -9.96 | 1.176 | 136.3 | 0.772 | 1.650 | 244.2 | 562.7 | 0.377 | 2.923 | -10.28 | 0.508 | 44.0 | 143.6 | -8.2 | 0.444 |
| 4-1430 | 4-2090 | 0.969 | 48.0 | 8.5 | -11.69 | 1.178 | 140.3 | 0.810 | 1.663 | 237.9 | 562.1 | 0.317 | 3.010 | -11.63 | 0.520 | 39.4 | 148.5 | -7.8 | 0.492 |
| 4-1430 | 4-2110 | 1.050 | 51.1 | 9.4 | -14.01 | 1.180 | 144.9 | 0.850 | 1.678 | 230.9 | 560.7 | 0.252 | 3.104 | -13.57 | 0.532 | 34.3 | 154.2 | -7.4 | 0.546 |
| 4-1430 | 4-2130 | 1.141 | 54.7 | 10.4 | -17.32 | 1.183 | 150.1 | 0.891 | 1.694 | 223.0 | 558.5 | 0.185 | 3.203 | -16.52 | 0.544 | 28.8 | 160.5 | -7.1 | 0.606 |
| 4-1440 | 4-1660 | 0.769 | 29.8 | 24.4 | 8.13 | 1.306 | 124.3 | 0.818 | 3.576 | 282.2 | 491.3 | 0.651 | --- | -13.06 | 0.706 | 143.2 | 159.1 | -9.2 | 0.599 |
| 4-1440 | 4-1680 | 0.702 | 29.8 | 22.4 | 6.26 | 1.269 | 122.0 | 0.749 | 2.679 | 282.9 | 496.4 | 0.673 | --- | -11.47 | 0.636 | 138.5 | 160.9 | -9.3 | 0.518 |
| 4-1440 | 4-1700 | 0.649 | 29.9 | 20.7 | 4.79 | 1.242 | 120.2 | 0.695 | 2.265 | 283.5 | 501.5 | 0.692 | --- | -10.27 | 0.580 | 133.5 | 162.2 | -9.6 | 0.450 |
| 4-1440 | 4-1720 | 0.609 | 30.1 | 19.0 | 3.58 | 1.222 | 118.6 | 0.652 | 2.034 | 284.1 | 506.6 | 0.707 | --- | -9.35 | 0.536 | 128.2 | 163.1 | -10.0 | 0.393 |
| 4-1440 | 4-1740 | 0.577 | 30.3 | 17.4 | 2.57 | 1.206 | 117.4 | 0.619 | 1.891 | 284.6 | 511.7 | 0.720 | --- | -8.63 | 0.502 | 122.9 | 163.3 | -10.5 | 0.346 |
| 4-1440 | 4-1760 | 0.553 | 30.6 | 15.9 | 1.69 | 1.195 | 116.4 | 0.594 | 1.797 | 285.0 | 516.6 | 0.730 | --- | -8.06 | 0.475 | 117.4 | 162.8 | -11.2 | 0.305 |
| 4-1440 | 4-1780 | 0.535 | 30.9 | 14.5 | 0.91 | 1.186 | 115.7 | 0.575 | 1.733 | 285.2 | 521.4 | 0.737 | --- | -7.60 | 0.455 | 111.9 | 161.6 | -11.9 | 0.272 |
| 4-1440 | 4-1800 | 0.523 | 31.4 | 13.2 | 0.20 | 1.180 | 115.2 | 0.561 | 1.688 | 285.3 | 526.1 | 0.741 | --- | -7.23 | 0.442 | 106.5 | 159.5 | -12.6 | 0.245 |
| 4-1440 | 4-1820 | 0.516 | 31.9 | 11.9 | -0.45 | 1.175 | 115.0 | 0.552 | 1.657 | 285.1 | 530.6 | 0.743 | --- | -6.94 | 0.433 | 101.2 | 156.5 | -13.2 | 0.224 |
| 4-1440 | 4-1840 | 0.513 | 32.6 | 10.8 | -1.05 | 1.172 | 114.9 | 0.546 | 1.636 | 284.7 | 534.8 | 0.742 | --- | -6.71 | 0.428 | 96.1 | 152.7 | -13.8 | 0.209 |
| 4-1440 | 4-1860 | 0.515 | 33.4 | 9.9 | -1.63 | 1.169 | 115.0 | 0.545 | 1.622 | 284.0 | 538.9 | 0.738 | --- | -6.53 | 0.427 | 91.3 | 148.4 | -14.0 | 0.200 |
| 4-1440 | 4-1880 | 0.520 | 34.3 | 9.0 | -2.19 | 1.168 | 115.4 | 0.546 | 1.613 | 283.0 | 542.8 | 0.732 | 2.493 | -6.41 | 0.428 | 86.7 | 144.0 | -14.0 | 0.197 |
| 4-1440 | 4-1900 | 0.529 | 35.3 | 8.3 | -2.74 | 1.167 | 115.9 | 0.550 | 1.608 | 281.7 | 546.4 | 0.723 | 2.493 | -6.34 | 0.432 | 82.3 | 140.1 | -13.7 | 0.199 |
| 4-1440 | 4-1920 | 0.542 | 36.4 | 7.7 | -3.29 | 1.167 | 116.6 | 0.558 | 1.607 | 280.2 | 549.7 | 0.711 | 2.502 | -6.31 | 0.437 | 78.2 | 136.8 | -13.2 | 0.207 |
| 4-1440 | 4-1940 | 0.558 | 37.7 | 7.3 | -3.84 | 1.167 | 117.4 | 0.567 | 1.608 | 278.2 | 552.8 | 0.695 | 2.520 | -6.33 | 0.444 | 74.3 | 134.6 | -12.5 | 0.218 |
| 4-1440 | 4-1960 | 0.579 | 39.1 | 7.1 | -4.41 | 1.168 | 118.6 | 0.580 | 1.611 | 276.0 | 555.6 | 0.677 | 2.545 | -6.40 | 0.453 | 70.5 | 133.4 | -11.7 | 0.234 |
| 4-1440 | 4-1980 | 0.603 | 40.6 | 6.9 | -5.01 | 1.168 | 119.9 | 0.596 | 1.616 | 273.3 | 558.1 | 0.654 | 2.578 | -6.52 | 0.462 | 66.9 | 133.3 | -11.0 | 0.253 |
| 4-1440 | 4-2000 | 0.633 | 42.3 | 6.9 | -5.64 | 1.169 | 121.5 | 0.614 | 1.623 | 270.3 | 560.3 | 0.626 | 2.619 | -6.71 | 0.472 | 63.4 | 134.1 | -10.3 | 0.276 |
| 4-1440 | 4-2020 | 0.667 | 44.1 | 7.1 | -6.33 | 1.171 | 123.4 | 0.636 | 1.630 | 266.8 | 562.1 | 0.594 | 2.667 | -6.98 | 0.482 | 59.8 | 135.9 | -9.7 | 0.302 |
| 4-1440 | 4-2040 | 0.707 | 46.1 | 7.4 | -7.10 | 1.172 | 125.5 | 0.660 | 1.639 | 262.8 | 563.5 | 0.557 | 2.722 | -7.34 | 0.493 | 56.3 | 138.4 | -9.1 | 0.332 |
| 4-1440 | 4-2060 | 0.754 | 48.3 | 7.8 | -7.98 | 1.174 | 128.1 | 0.689 | 1.650 | 258.2 | 564.5 | 0.513 | 2.788 | -7.83 | 0.504 | 52.6 | 141.7 | -8.6 | 0.365 |
| 4-1440 | 4-2080 | 0.808 | 50.7 | 8.3 | -9.00 | 1.176 | 131.1 | 0.721 | 1.661 | 253.1 | 564.9 | 0.463 | 2.859 | -8.47 | 0.516 | 48.7 | 145.6 | -8.1 | 0.403 |
| 4-1440 | 4-2100 | 0.871 | 53.4 | 9.0 | -10.25 | 1.177 | 134.6 | 0.757 | 1.673 | 247.3 | 564.8 | 0.406 | 2.941 | -9.35 | 0.527 | 44.6 | 150.2 | -7.7 | 0.446 |
| 4-1440 | 4-2120 | 0.943 | 56.3 | 9.9 | -11.83 | 1.179 | 138.7 | 0.797 | 1.687 | 240.8 | 563.9 | 0.343 | 3.031 | -10.56 | 0.538 | 40.0 | 155.4 | -7.4 | 0.495 |
| 4-1440 | 4-2140 | 1.026 | 59.7 | 10.8 | -13.93 | 1.182 | 143.5 | 0.839 | 1.702 | 233.4 | 562.3 | 0.274 | 3.130 | -12.31 | 0.549 | 35.0 | 161.4 | -7.0 | 0.550 |
| 4-1440 | 4-2160 | 1.120 | 63.4 | 11.9 | -16.94 | 1.184 | 148.9 | 0.883 | 1.718 | 225.1 | 559.9 | 0.202 | 3.234 | -14.97 | 0.561 | 29.5 | 167.9 | -6.7 | 0.612 |
| 4-1450 | 4-1670 | 0.741 | 35.9 | 30.2 | 10.04 | 1.308 | 122.1 | 0.815 | 3.737 | 287.2 | 488.9 | 0.691 | --- | -15.44 | 0.714 | 142.4 | 162.2 | -11.1 | 0.603 |
| 4-1450 | 4-1690 | 0.669 | 36.0 | 27.0 | 7.28 | 1.272 | 119.9 | 0.742 | 2.763 | 288.0 | 494.2 | 0.713 | --- | -12.92 | 0.645 | 137.8 | 164.3 | -10.7 | 0.521 |
| 4-1450 | 4-1710 | 0.614 | 36.1 | 24.4 | 5.28 | 1.244 | 118.0 | 0.685 | 2.322 | 288.8 | 499.4 | 0.732 | --- | -11.16 | 0.590 | 132.9 | 165.8 | -10.7 | 0.452 |
| 4-1450 | 4-1730 | 0.572 | 36.3 | 22.0 | 3.74 | 1.224 | 116.4 | 0.640 | 2.077 | 289.5 | 504.6 | 0.748 | --- | -9.86 | 0.546 | 127.8 | 166.9 | -10.8 | 0.395 |
| 4-1450 | 4-1750 | 0.539 | 36.5 | 19.9 | 2.51 | 1.208 | 115.2 | 0.605 | 1.926 | 290.1 | 509.8 | 0.761 | --- | -8.88 | 0.512 | 122.5 | 167.4 | -11.1 | 0.346 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1450 | 4-1770 | 0.514 | 36.8 | 17.9 | 1.49 | 1.197 | 114.2 | 0.578 | 1.827 | 290.7 | 514.9 | 0.771 | --- | -8.12 | 0.486 | 117.2 | 187.3 | -11.5 | 0.305 |
| 4-1450 | 4-1790 | 0.496 | 37.2 | 16.1 | 0.62 | 1.188 | 113.4 | 0.558 | 1.760 | 291.0 | 519.9 | 0.779 | --- | -7.52 | 0.467 | 111.9 | 166.3 | -12.1 | 0.271 |
| 4-1450 | 4-1810 | 0.483 | 37.6 | 14.5 | -0.14 | 1.181 | 112.9 | 0.542 | 1.713 | 291.2 | 524.7 | 0.784 | --- | -7.05 | 0.453 | 106.7 | 164.6 | -12.7 | 0.243 |
| 4-1450 | 4-1830 | 0.475 | 38.2 | 13.0 | -0.82 | 1.176 | 112.6 | 0.532 | 1.680 | 291.1 | 529.3 | 0.786 | --- | -6.66 | 0.444 | 101.7 | 161.9 | -13.2 | 0.220 |
| 4-1450 | 4-1850 | 0.472 | 38.8 | 11.7 | -1.44 | 1.173 | 112.5 | 0.525 | 1.657 | 290.9 | 533.7 | 0.786 | --- | -6.36 | 0.439 | 96.8 | 158.4 | -13.7 | 0.204 |
| 4-1450 | 4-1870 | 0.472 | 39.6 | 10.6 | -2.02 | 1.171 | 112.5 | 0.522 | 1.642 | 290.3 | 538.0 | 0.784 | --- | -6.12 | 0.438 | 92.2 | 154.2 | -14.0 | 0.193 |
| 4-1450 | 4-1890 | 0.476 | 40.5 | 9.6 | -2.56 | 1.169 | 112.8 | 0.522 | 1.632 | 289.5 | 542.0 | 0.779 | 2.484 | -5.93 | 0.439 | 87.8 | 149.8 | -14.0 | 0.188 |
| 4-1450 | 4-1910 | 0.483 | 41.5 | 8.8 | -3.08 | 1.168 | 113.2 | 0.525 | 1.626 | 288.3 | 545.7 | 0.772 | 2.480 | -5.80 | 0.443 | 83.7 | 145.6 | -13.7 | 0.188 |
| 4-1450 | 4-1930 | 0.494 | 42.6 | 8.2 | -3.59 | 1.168 | 113.8 | 0.531 | 1.624 | 286.9 | 549.3 | 0.762 | 2.480 | -5.71 | 0.448 | 79.8 | 142.1 | -13.1 | 0.193 |
| 4-1450 | 4-1950 | 0.508 | 43.8 | 7.7 | -4.09 | 1.168 | 114.5 | 0.539 | 1.624 | 285.1 | 552.6 | 0.749 | 2.499 | -5.66 | 0.455 | 76.1 | 139.4 | -12.4 | 0.203 |
| 4-1450 | 4-1970 | 0.526 | 45.1 | 7.4 | -4.60 | 1.168 | 115.5 | 0.550 | 1.627 | 283.0 | 555.6 | 0.733 | 2.521 | -5.66 | 0.463 | 72.6 | 137.8 | -11.6 | 0.216 |
| 4-1450 | 4-1990 | 0.548 | 46.6 | 7.3 | -5.12 | 1.169 | 116.6 | 0.563 | 1.631 | 280.5 | 558.3 | 0.713 | 2.549 | -5.71 | 0.472 | 69.2 | 137.3 | -10.8 | 0.233 |
| 4-1450 | 4-2010 | 0.573 | 48.2 | 7.3 | -5.66 | 1.170 | 118.0 | 0.579 | 1.637 | 277.7 | 560.7 | 0.689 | 2.585 | -5.81 | 0.481 | 66.0 | 137.8 | -10.1 | 0.254 |
| 4-1450 | 4-2030 | 0.603 | 50.0 | 7.5 | -6.24 | 1.171 | 119.7 | 0.598 | 1.644 | 274.4 | 562.8 | 0.661 | 2.627 | -5.96 | 0.491 | 62.7 | 139.1 | -9.4 | 0.277 |
| 4-1450 | 4-2050 | 0.639 | 51.9 | 7.7 | -6.86 | 1.172 | 121.6 | 0.620 | 1.653 | 270.7 | 564.5 | 0.628 | 2.677 | -6.19 | 0.502 | 59.5 | 141.3 | -8.8 | 0.303 |
| 4-1450 | 4-2070 | 0.680 | 54.0 | 8.2 | -7.55 | 1.174 | 123.9 | 0.645 | 1.662 | 266.4 | 565.8 | 0.589 | 2.735 | -6.50 | 0.512 | 56.1 | 144.3 | -8.3 | 0.334 |
| 4-1450 | 4-2090 | 0.727 | 56.3 | 8.7 | -8.33 | 1.175 | 126.5 | 0.675 | 1.673 | 261.6 | 566.7 | 0.544 | 2.801 | -6.92 | 0.523 | 52.7 | 147.9 | -7.8 | 0.368 |
| 4-1450 | 4-2110 | 0.783 | 58.9 | 9.4 | -9.25 | 1.177 | 129.6 | 0.708 | 1.684 | 256.2 | 567.0 | 0.492 | 2.877 | -7.48 | 0.534 | 49.0 | 152.2 | -7.4 | 0.406 |
| 4-1450 | 4-2130 | 0.847 | 61.7 | 10.2 | -10.36 | 1.179 | 133.2 | 0.745 | 1.697 | 250.1 | 566.7 | 0.432 | 2.961 | -8.25 | 0.545 | 44.9 | 157.1 | -7.0 | 0.450 |
| 4-1450 | 4-2150 | 0.921 | 64.8 | 11.1 | -11.77 | 1.181 | 137.4 | 0.787 | 1.710 | 243.2 | 565.7 | 0.365 | 3.056 | -9.32 | 0.555 | 40.5 | 162.6 | -6.7 | 0.500 |
| 4-1450 | 4-2170 | 1.006 | 68.3 | 12.1 | -13.64 | 1.183 | 142.3 | 0.831 | 1.725 | 235.4 | 563.9 | 0.292 | 3.159 | -10.86 | 0.566 | 35.5 | 168.8 | -6.4 | 0.556 |
| 4-1450 | 4-2190 | 1.103 | 72.2 | 13.2 | -16.33 | 1.185 | 148.0 | 0.877 | 1.742 | 226.7 | 561.2 | 0.215 | 3.268 | -13.23 | 0.576 | 29.9 | 175.6 | -6.1 | 0.620 |
| 4-1460 | 4-1680 | 0.727 | 41.7 | 39.3 | 13.94 | 1.310 | 119.9 | 0.811 | 3.864 | 292.3 | 486.8 | 0.731 | --- | -19.76 | 0.720 | 141.6 | 164.6 | -14.3 | 0.612 |
| 4-1460 | 4-1700 | 0.640 | 41.8 | 33.2 | 9.16 | 1.274 | 117.6 | 0.734 | 2.831 | 293.2 | 492.1 | 0.753 | --- | -15.18 | 0.652 | 137.0 | 167.3 | -12.8 | 0.524 |
| 4-1460 | 4-1720 | 0.579 | 42.0 | 28.7 | 6.14 | 1.246 | 115.7 | 0.674 | 2.368 | 294.2 | 497.5 | 0.772 | --- | -12.35 | 0.597 | 132.2 | 189.2 | -12.1 | 0.453 |
| 4-1460 | 4-1740 | 0.535 | 42.3 | 25.1 | 4.03 | 1.226 | 114.2 | 0.627 | 2.113 | 295.0 | 502.8 | 0.787 | --- | -10.45 | 0.554 | 127.2 | 170.5 | -11.7 | 0.395 |
| 4-1460 | 4-1760 | 0.501 | 42.5 | 22.1 | 2.47 | 1.210 | 112.9 | 0.591 | 1.956 | 295.8 | 508.2 | 0.800 | --- | -9.10 | 0.521 | 122.1 | 171.2 | -11.7 | 0.345 |
| 4-1460 | 4-1780 | 0.476 | 42.9 | 19.5 | 1.26 | 1.198 | 111.9 | 0.563 | 1.853 | 296.5 | 513.4 | 0.811 | --- | -8.10 | 0.495 | 116.9 | 171.3 | -11.8 | 0.304 |
| 4-1460 | 4-1800 | 0.457 | 43.2 | 17.2 | 0.27 | 1.189 | 111.2 | 0.541 | 1.783 | 297.0 | 518.5 | 0.818 | --- | -7.33 | 0.476 | 111.8 | 170.7 | -12.1 | 0.269 |
| 4-1460 | 4-1820 | 0.444 | 43.7 | 15.2 | -0.56 | 1.183 | 110.6 | 0.525 | 1.734 | 297.3 | 523.5 | 0.824 | --- | -6.73 | 0.463 | 106.8 | 169.2 | -12.5 | 0.240 |
| 4-1460 | 4-1840 | 0.436 | 44.2 | 13.4 | -1.28 | 1.178 | 110.3 | 0.514 | 1.700 | 297.4 | 528.2 | 0.827 | --- | -6.26 | 0.454 | 101.9 | 166.8 | -12.9 | 0.217 |
| 4-1460 | 4-1860 | 0.431 | 44.8 | 11.9 | -1.91 | 1.174 | 110.1 | 0.506 | 1.676 | 297.2 | 532.8 | 0.828 | --- | -5.88 | 0.449 | 97.2 | 163.5 | -13.3 | 0.199 |
| 4-1460 | 4-1880 | 0.431 | 45.6 | 10.6 | -2.48 | 1.172 | 110.1 | 0.502 | 1.660 | 296.7 | 537.2 | 0.826 | --- | -5.58 | 0.448 | 92.8 | 159.5 | -13.5 | 0.187 |
| 4-1460 | 4-1900 | 0.434 | 46.4 | 9.5 | -3.00 | 1.170 | 110.3 | 0.501 | 1.649 | 296.0 | 541.3 | 0.823 | 2.475 | -5.34 | 0.449 | 88.6 | 155.2 | -13.4 | 0.180 |
| 4-1460 | 4-1920 | 0.440 | 47.4 | 8.7 | -3.49 | 1.169 | 110.6 | 0.503 | 1.643 | 295.0 | 545.3 | 0.817 | 2.468 | -5.15 | 0.453 | 84.7 | 150.8 | -13.1 | 0.179 |
| 4-1460 | 4-1940 | 0.449 | 48.5 | 8.0 | -3.96 | 1.169 | 111.1 | 0.507 | 1.640 | 293.7 | 548.9 | 0.809 | 2.471 | -5.02 | 0.458 | 81.0 | 147.0 | -12.5 | 0.182 |
| 4-1460 | 4-1960 | 0.462 | 49.7 | 7.5 | -4.41 | 1.169 | 111.8 | 0.513 | 1.640 | 292.0 | 552.4 | 0.798 | 2.482 | -4.92 | 0.465 | 77.6 | 144.0 | -11.8 | 0.190 |
| 4-1460 | 4-1980 | 0.477 | 51.0 | 7.2 | -4.86 | 1.169 | 112.6 | 0.522 | 1.642 | 290.0 | 555.5 | 0.784 | 2.500 | -4.87 | 0.472 | 74.3 | 142.1 | -11.0 | 0.201 |
| 4-1460 | 4-2000 | 0.496 | 52.5 | 7.1 | -5.30 | 1.169 | 113.6 | 0.534 | 1.646 | 287.7 | 558.5 | 0.767 | 2.524 | -4.85 | 0.481 | 71.1 | 141.2 | -10.2 | 0.216 |
| 4-1460 | 4-2020 | 0.519 | 54.1 | 7.2 | -5.76 | 1.170 | 114.9 | 0.548 | 1.651 | 285.0 | 561.1 | 0.747 | 2.556 | -4.88 | 0.490 | 68.1 | 141.4 | -9.5 | 0.235 |
| 4-1460 | 4-2040 | 0.546 | 55.8 | 7.4 | -6.23 | 1.171 | 116.3 | 0.564 | 1.658 | 281.8 | 563.4 | 0.722 | 2.594 | -4.95 | 0.500 | 65.1 | 142.5 | -8.8 | 0.256 |
| 4-1460 | 4-2060 | 0.577 | 57.7 | 7.7 | -6.73 | 1.173 | 118.1 | 0.584 | 1.666 | 278.3 | 565.4 | 0.693 | 2.639 | -5.07 | 0.510 | 62.1 | 144.4 | -8.2 | 0.280 |
| 4-1460 | 4-2080 | 0.613 | 59.8 | 8.2 | -7.27 | 1.174 | 120.1 | 0.607 | 1.675 | 274.3 | 567.0 | 0.659 | 2.691 | -5.26 | 0.520 | 59.1 | 147.1 | -7.7 | 0.307 |
| 4-1460 | 4-2100 | 0.655 | 62.0 | 8.8 | -7.86 | 1.175 | 122.4 | 0.633 | 1.685 | 269.8 | 568.1 | 0.619 | 2.751 | -5.51 | 0.531 | 56.0 | 150.4 | -7.2 | 0.338 |
| 4-1460 | 4-2120 | 0.704 | 64.5 | 9.5 | -8.54 | 1.177 | 125.1 | 0.663 | 1.696 | 264.7 | 568.9 | 0.571 | 2.820 | -5.87 | 0.541 | 52.7 | 154.4 | -6.8 | 0.372 |
| 4-1460 | 4-2140 | 0.760 | 67.2 | 10.3 | -9.33 | 1.179 | 128.3 | 0.697 | 1.707 | 258.9 | 569.0 | 0.517 | 2.898 | -6.34 | 0.551 | 49.1 | 159.0 | -6.4 | 0.411 |
| 4-1460 | 4-2160 | 0.826 | 70.2 | 11.2 | -10.28 | 1.181 | 132.0 | 0.736 | 1.720 | 252.5 | 568.5 | 0.454 | 2.988 | -7.00 | 0.561 | 45.2 | 164.2 | -6.1 | 0.456 |
| 4-1460 | 4-2180 | 0.902 | 73.5 | 12.1 | -11.49 | 1.183 | 136.4 | 0.779 | 1.734 | 245.2 | 567.3 | 0.383 | 3.085 | -7.91 | 0.571 | 40.7 | 170.1 | -5.8 | 0.507 |
| 4-1460 | 4-2200 | 0.990 | 77.2 | 13.2 | -13.10 | 1.185 | 141.5 | 0.825 | 1.749 | 237.0 | 565.2 | 0.305 | 3.193 | -9.24 | 0.580 | 35.8 | 176.5 | -5.5 | 0.565 |
| 4-1460 | 4-2220 | 1.090 | 81.3 | 14.2 | -15.43 | 1.187 | 147.4 | 0.873 | 1.765 | 227.8 | 562.2 | 0.224 | 3.307 | -11.27 | 0.590 | 30.1 | 183.6 | -5.3 | 0.630 |
| 4-1470 | 4-1690 | 0.795 | 50.4 | 59.0 | 25.47 | 1.311 | 117.6 | 0.805 | 3.944 | 297.4 | 484.8 | 0.770 | --- | -31.65 | 0.724 | 140.7 | 164.0 | -21.8 | 0.647 |
| 4-1470 | 4-1710 | 0.629 | 47.1 | 44.0 | 13.48 | 1.275 | 115.3 | 0.725 | 2.878 | 298.6 | 490.2 | 0.792 | --- | -19.82 | 0.657 | 136.1 | 169.4 | -16.8 | 0.533 |
| 4-1470 | 4-1730 | 0.548 | 47.3 | 34.9 | 7.84 | 1.247 | 113.4 | 0.663 | 2.403 | 299.8 | 495.7 | 0.811 | --- | -14.34 | 0.603 | 131.4 | 172.1 | -14.3 | 0.455 |
| 4-1470 | 4-1750 | 0.497 | 47.8 | 28.8 | 4.59 | 1.227 | 111.9 | 0.614 | 2.141 | 300.8 | 501.3 | 0.826 | --- | -11.25 | 0.561 | 126.4 | 173.8 | -12.9 | 0.394 |
| 4-1470 | 4-1770 | 0.462 | 48.2 | 24.2 | 2.46 | 1.211 | 110.6 | 0.577 | 1.981 | 301.7 | 506.7 | 0.838 | --- | -9.28 | 0.528 | 121.4 | 174.8 | -12.2 | 0.343 |
| 4-1470 | 4-1790 | 0.436 | 48.6 | 20.5 | 0.94 | 1.199 | 109.6 | 0.548 | 1.875 | 302.5 | 512.1 | 0.848 | --- | -7.94 | 0.503 | 116.4 | 175.1 | -11.9 | 0.301 |
| 4-1470 | 4-1810 | 0.418 | 49.0 | 17.5 | -0.20 | 1.191 | 108.9 | 0.525 | 1.803 | 303.1 | 517.4 | 0.856 | --- | -6.96 | 0.484 | 111.4 | 174.6 | -11.9 | 0.265 |
| 4-1470 | 4-1830 | 0.405 | 49.4 | 15.0 | -1.11 | 1.184 | 108.3 | 0.509 | 1.753 | 303.6 | 522.5 | 0.861 | --- | -6.23 | 0.471 | 106.6 | 173.4 | -12.0 | 0.236 |
| 4-1470 | 4-1850 | 0.397 | 49.9 | 12.9 | -1.86 | 1.179 | 107.9 | 0.497 | 1.718 | 303.7 | 527.4 | 0.865 | --- | -5.67 | 0.463 | 101.9 | 171.2 | -12.2 | 0.212 |
| 4-1470 | 4-1870 | 0.393 | 50.5 | 11.1 | -2.49 | 1.175 | 107.7 | 0.488 | 1.693 | 303.7 | 532.1 | 0.866 | --- | -5.23 | 0.458 | 97.4 | 168.1 | -12.4 | 0.194 |
| 4-1470 | 4-1890 | 0.392 | 51.3 | 9.7 | -3.05 | 1.173 | 107.7 | 0.484 | 1.676 | 303.3 | 536.6 | 0.865 | --- | -4.88 | 0.457 | 93.1 | 164.3 | -12.4 | 0.181 |
| 4-1470 | 4-1910 | 0.395 | 52.1 | 8.5 | -3.54 | 1.171 | 107.8 | 0.482 | 1.665 | 302.7 | 540.9 | 0.863 | 2.467 | -4.60 | 0.458 | 89.2 | 159.9 | -12.3 | 0.173 |
| 4-1470 | 4-1930 | 0.400 | 53.0 | 7.6 | -3.99 | 1.170 | 108.1 | 0.483 | 1.658 | 301.8 | 545.0 | 0.858 | 2.458 | -4.38 | 0.462 | 85.4 | 155.5 | -11.9 | 0.170 |
| 4-1470 | 4-1950 | 0.408 | 54.1 | 7.0 | -4.40 | 1.169 | 108.6 | 0.486 | 1.655 | 300.5 | 548.8 | 0.851 | 2.458 | -4.21 | 0.467 | 81.9 | 151.5 | -11.4 | 0.172 |
| 4-1470 | 4-1970 | 0.419 | 55.3 | 6.6 | -4.80 | 1.169 | 109.2 | 0.491 | 1.654 | 298.9 | 552.3 | 0.842 | 2.468 | -4.08 | 0.474 | 78.6 | 148.3 | -10.7 | 0.179 |
| 4-1470 | 4-1990 | 0.433 | 56.7 | 6.3 | -5.18 | 1.170 | 109.9 | 0.499 | 1.656 | 297.0 | 555.6 | 0.830 | 2.482 | -3.99 | 0.481 | 75.5 | 146.1 | -9.9 | 0.189 |
| 4-1470 | 4-2010 | 0.450 | 58.1 | 6.3 | -5.55 | 1.170 | 110.8 | 0.508 | 1.660 | 294.8 | 558.7 | 0.816 | 2.503 | -3.93 | 0.490 | 72.6 | 144.9 | -9.1 | 0.202 |
| 4-1470 | 4-2030 | 0.470 | 59.7 | 6.5 | -5.92 | 1.171 | 111.9 | 0.521 | 1.665 | 292.2 | 561.4 | 0.798 | 2.531 | -3.91 | 0.499 | 69.7 | 144.9 | -8.4 | 0.219 |
| 4-1470 | 4-2050 | 0.493 | 61.5 | 6.8 | -6.29 | 1.172 | 113.3 | 0.535 | 1.671 | 289.2 | 563.9 | 0.777 | 2.565 | -3.93 | 0.508 | 67.0 | 145.7 | -7.7 | 0.238 |
| 4-1470 | 4-2070 | 0.521 | 63.4 | 7.2 | -6.68 | 1.173 | 114.8 | 0.552 | 1.679 | 285.8 | 566.1 | 0.752 | 2.606 | -3.98 | 0.518 | 64.3 | 147.4 | -7.2 | 0.260 |
| 4-1470 | 4-2090 | 0.553 | 65.4 | 7.8 | -7.09 | 1.174 | 116.6 | 0.572 | 1.687 | 282.0 | 568.0 | 0.722 | 2.653 | -4.07 | 0.528 | 61.5 | 149.9 | -6.6 | 0.284 |
| 4-1470 | 4-2110 | 0.590 | 67.6 | 8.4 | -7.53 | 1.176 | 118.7 | 0.596 | 1.697 | 277.7 | 569.4 | 0.686 | 2.708 | -4.21 | 0.538 | 58.7 | 153.1 | -6.2 | 0.312 |
| 4-1470 | 4-2130 | 0.633 | 70.0 | 9.2 | -8.02 | 1.177 | 121.1 | 0.623 | 1.707 | 272.8 | 570.4 | 0.644 | 2.770 | -4.42 | 0.548 | 55.7 | 156.8 | -5.8 | 0.344 |
| 4-1470 | 4-2150 | 0.683 | 72.7 | 10.1 | -8.57 | 1.179 | 123.9 | 0.654 | 1.718 | 267.4 | 571.0 | 0.595 | 2.842 | -4.70 | 0.558 | 52.6 | 161.2 | -5.5 | 0.379 |
| 4-1470 | 4-2170 | 0.741 | 75.6 | 11.0 | -9.21 | 1.181 | 127.3 | 0.689 | 1.730 | 261.3 | 570.9 | 0.538 | 2.923 | -5.08 | 0.567 | 49.1 | 166.1 | -5.2 | 0.419 |
| 4-1470 | 4-2190 | 0.809 | 78.7 | 12.0 | -9.99 | 1.183 | 131.1 | 0.729 | 1.744 | 254.5 | 570.2 | 0.472 | 3.015 | -5.61 | 0.576 | 45.2 | 171.7 | -4.9 | 0.465 |
| 4-1470 | 4-2210 | 0.887 | 82.3 | 13.0 | -10.97 | 1.185 | 135.7 | 0.774 | 1.758 | 246.8 | 568.7 | 0.397 | 3.118 | -6.35 | 0.585 | 40.8 | 177.8 | -4.7 | 0.516 |
| 4-1470 | 4-2230 | 0.978 | 86.2 | 14.0 | -12.29 | 1.187 | 141.0 | 0.822 | 1.773 | 238.2 | 566.4 | 0.315 | 3.230 | -7.43 | 0.594 | 35.8 | 184.5 | -4.5 | 0.575 |
| 4-1470 | 4-2250 | 1.081 | 90.6 | 15.0 | -14.20 | 1.189 | 147.1 | 0.872 | 1.790 | 228.5 | 563.0 | 0.229 | 3.350 | -9.11 | 0.602 | 30.1 | 191.9 | -4.3 | 0.642 |
| 4-1480 | 4-1720 | 0.790 | 64.1 | 72.8 | 31.22 | 1.275 | 112.9 | 0.714 | 2.900 | 304.0 | 488.7 | 0.829 | --- | -37.84 | 0.659 | 135.2 | 165.2 | -28.2 | 0.602 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1480 | 4-1740 | 0.540 | 51.8 | 47.4 | 12.43 | 1.248 | 111.0 | 0.650 | 2.423 | 305.5 | 494.3 | 0.848 | --- | -19.17 | 0.606 | 130.4 | 173.9 | -19.0 | 0.465 |
| 4-1480 | 4-1760 | 0.463 | 52.6 | 34.1 | 5.80 | 1.227 | 109.5 | 0.601 | 2.160 | 306.8 | 500.0 | 0.863 | --- | -12.66 | 0.565 | 125.6 | 176.7 | -14.9 | 0.393 |
| 4-1480 | 4-1780 | 0.423 | 53.3 | 26.1 | 2.47 | 1.212 | 108.3 | 0.562 | 1.998 | 307.9 | 505.6 | 0.874 | --- | -9.45 | 0.533 | 120.6 | 178.1 | -12.8 | 0.339 |
| 4-1480 | 4-1800 | 0.397 | 53.9 | 20.7 | 0.46 | 1.200 | 107.3 | 0.533 | 1.891 | 308.8 | 511.2 | 0.884 | --- | -7.56 | 0.509 | 115.7 | 178.6 | -11.7 | 0.296 |
| 4-1480 | 4-1820 | 0.380 | 54.3 | 16.6 | -0.90 | 1.191 | 106.5 | 0.510 | 1.819 | 309.6 | 516.6 | 0.891 | --- | -6.32 | 0.491 | 110.9 | 178.3 | -11.2 | 0.260 |
| 4-1480 | 4-1840 | 0.368 | 54.7 | 13.5 | -1.89 | 1.185 | 106.0 | 0.493 | 1.768 | 310.1 | 521.8 | 0.896 | --- | -5.46 | 0.478 | 106.1 | 177.1 | -10.9 | 0.231 |
| 4-1480 | 4-1860 | 0.361 | 55.2 | 11.0 | -2.65 | 1.180 | 105.6 | 0.481 | 1.732 | 310.4 | 526.9 | 0.899 | --- | -4.83 | 0.470 | 101.6 | 175.1 | -10.8 | 0.207 |
| 4-1480 | 4-1880 | 0.357 | 55.8 | 9.0 | -3.27 | 1.176 | 105.4 | 0.472 | 1.707 | 310.4 | 531.7 | 0.901 | --- | -4.35 | 0.466 | 97.3 | 172.1 | -10.7 | 0.188 |
| 4-1480 | 4-1900 | 0.356 | 56.5 | 7.5 | -3.78 | 1.174 | 105.4 | 0.467 | 1.690 | 310.1 | 536.3 | 0.901 | --- | -3.97 | 0.465 | 93.2 | 168.4 | -10.6 | 0.174 |
| 4-1480 | 4-1920 | 0.359 | 57.3 | 6.3 | -4.22 | 1.172 | 105.5 | 0.465 | 1.678 | 309.6 | 540.7 | 0.899 | 2.458 | -3.68 | 0.467 | 89.4 | 164.1 | -10.4 | 0.166 |
| 4-1480 | 4-1940 | 0.363 | 58.2 | 5.5 | -4.61 | 1.171 | 105.7 | 0.465 | 1.671 | 308.7 | 544.8 | 0.895 | 2.448 | -3.45 | 0.470 | 85.8 | 159.6 | -10.0 | 0.162 |
| 4-1480 | 4-1960 | 0.371 | 59.3 | 4.9 | -4.96 | 1.170 | 106.1 | 0.467 | 1.668 | 307.5 | 548.7 | 0.889 | 2.447 | -3.27 | 0.476 | 82.5 | 155.5 | -9.5 | 0.164 |
| 4-1480 | 4-1980 | 0.380 | 60.5 | 4.6 | -5.28 | 1.170 | 106.6 | 0.471 | 1.667 | 306.0 | 552.4 | 0.881 | 2.453 | -3.13 | 0.482 | 79.4 | 152.1 | -8.8 | 0.169 |
| 4-1480 | 4-2000 | 0.393 | 61.9 | 4.6 | -5.58 | 1.171 | 107.3 | 0.478 | 1.669 | 304.1 | 555.8 | 0.871 | 2.467 | -3.02 | 0.490 | 76.4 | 149.7 | -8.1 | 0.178 |
| 4-1480 | 4-2020 | 0.407 | 63.4 | 4.7 | -5.87 | 1.171 | 108.2 | 0.486 | 1.672 | 301.9 | 559.0 | 0.859 | 2.486 | -2.94 | 0.498 | 73.7 | 148.4 | -7.4 | 0.191 |
| 4-1480 | 4-2040 | 0.425 | 65.0 | 5.0 | -6.15 | 1.172 | 109.2 | 0.497 | 1.677 | 299.4 | 561.9 | 0.844 | 2.511 | -2.89 | 0.507 | 71.0 | 148.2 | -6.8 | 0.206 |
| 4-1480 | 4-2060 | 0.446 | 66.8 | 5.5 | -6.43 | 1.173 | 110.4 | 0.510 | 1.684 | 296.5 | 564.5 | 0.826 | 2.542 | -2.87 | 0.516 | 68.5 | 148.9 | -6.2 | 0.223 |
| 4-1480 | 4-2080 | 0.470 | 68.7 | 6.1 | -6.72 | 1.174 | 111.8 | 0.525 | 1.691 | 293.2 | 566.8 | 0.804 | 2.579 | -2.87 | 0.526 | 66.0 | 150.4 | -5.7 | 0.243 |
| 4-1480 | 4-2100 | 0.499 | 70.8 | 6.8 | -7.01 | 1.175 | 113.4 | 0.543 | 1.699 | 289.5 | 568.8 | 0.777 | 2.621 | -2.91 | 0.536 | 63.5 | 152.7 | -5.2 | 0.266 |
| 4-1480 | 4-2120 | 0.531 | 73.1 | 7.7 | -7.31 | 1.177 | 115.3 | 0.563 | 1.709 | 285.3 | 570.5 | 0.746 | 2.671 | -2.97 | 0.545 | 60.9 | 155.7 | -4.9 | 0.291 |
| 4-1480 | 4-2140 | 0.570 | 75.5 | 8.6 | -7.64 | 1.178 | 117.5 | 0.587 | 1.719 | 280.7 | 571.8 | 0.710 | 2.728 | -3.07 | 0.555 | 58.3 | 159.4 | -4.5 | 0.320 |
| 4-1480 | 4-2160 | 0.614 | 78.1 | 9.6 | -8.00 | 1.180 | 120.0 | 0.615 | 1.730 | 275.5 | 572.6 | 0.666 | 2.793 | -3.22 | 0.564 | 55.5 | 163.6 | -4.3 | 0.352 |
| 4-1480 | 4-2180 | 0.665 | 80.9 | 10.6 | -8.41 | 1.181 | 123.0 | 0.647 | 1.741 | 269.7 | 572.9 | 0.615 | 2.868 | -3.43 | 0.573 | 52.4 | 168.3 | -4.0 | 0.388 |
| 4-1480 | 4-2200 | 0.725 | 84.1 | 11.6 | -8.89 | 1.183 | 126.4 | 0.684 | 1.754 | 263.3 | 572.7 | 0.555 | 2.952 | -3.71 | 0.582 | 49.0 | 173.6 | -3.8 | 0.429 |
| 4-1480 | 4-2220 | 0.795 | 87.5 | 12.7 | -9.47 | 1.185 | 130.5 | 0.725 | 1.767 | 256.1 | 571.7 | 0.486 | 3.048 | -4.10 | 0.590 | 45.2 | 179.4 | -3.6 | 0.475 |
| 4-1480 | 4-2240 | 0.876 | 91.3 | 13.7 | -10.20 | 1.187 | 135.2 | 0.771 | 1.781 | 248.0 | 569.9 | 0.408 | 3.155 | -4.66 | 0.598 | 40.8 | 185.8 | -3.4 | 0.528 |
| 4-1480 | 4-2260 | 0.969 | 95.5 | 14.7 | -11.19 | 1.189 | 140.7 | 0.821 | 1.797 | 238.9 | 567.3 | 0.321 | 3.273 | -5.47 | 0.605 | 35.7 | 192.8 | -3.3 | 0.588 |
| 4-1490 | 4-1710 | 0.653 | 75.0 | -14.9 | -19.04 | 1.309 | 111.9 | 0.783 | 3.937 | 309.6 | 481.3 | 0.854 | --- | 12.24 | 0.724 | 138.4 | 175.7 | 10.2 | 0.574 |
| 4-1490 | 4-1730 | 0.791 | 88.6 | -33.1 | -33.40 | 1.274 | 109.9 | 0.699 | 2.897 | 311.1 | 487.2 | 0.873 | --- | 26.54 | 0.659 | 133.9 | 173.1 | 22.9 | 0.544 |
| 4-1490 | 4-1770 | 0.450 | 55.6 | 47.5 | 10.04 | 1.227 | 107.0 | 0.586 | 2.168 | 313.1 | 499.0 | 0.897 | --- | -17.04 | 0.568 | 124.6 | 178.4 | -20.0 | 0.401 |
| 4-1490 | 4-1790 | 0.384 | 57.6 | 28.1 | 2.56 | 1.212 | 105.8 | 0.548 | 2.007 | 314.4 | 504.9 | 0.908 | --- | -9.63 | 0.536 | 119.7 | 181.1 | -13.5 | 0.334 |
| 4-1490 | 4-1810 | 0.358 | 58.6 | 18.9 | -0.44 | 1.201 | 104.9 | 0.518 | 1.901 | 315.4 | 510.6 | 0.917 | --- | -6.71 | 0.513 | 114.9 | 181.8 | -10.8 | 0.289 |
| 4-1490 | 4-1830 | 0.344 | 59.2 | 13.3 | -2.06 | 1.192 | 104.1 | 0.495 | 1.829 | 316.3 | 516.1 | 0.923 | --- | -5.16 | 0.496 | 110.1 | 181.6 | -9.5 | 0.253 |
| 4-1490 | 4-1850 | 0.334 | 59.6 | 9.6 | -3.09 | 1.186 | 103.6 | 0.478 | 1.779 | 316.9 | 521.5 | 0.928 | --- | -4.20 | 0.484 | 105.5 | 180.5 | -8.8 | 0.224 |
| 4-1490 | 4-1870 | 0.328 | 60.0 | 6.8 | -3.81 | 1.181 | 103.3 | 0.466 | 1.743 | 317.3 | 526.7 | 0.931 | --- | -3.56 | 0.477 | 101.1 | 178.5 | -8.4 | 0.200 |
| 4-1490 | 4-1890 | 0.325 | 60.5 | 4.9 | -4.35 | 1.177 | 103.1 | 0.458 | 1.718 | 317.4 | 531.6 | 0.932 | --- | -3.11 | 0.473 | 97.0 | 175.6 | -8.1 | 0.182 |
| 4-1490 | 4-1910 | 0.325 | 61.1 | 3.4 | -4.77 | 1.175 | 103.0 | 0.452 | 1.701 | 317.2 | 536.3 | 0.932 | --- | -2.77 | 0.472 | 93.0 | 171.8 | -7.8 | 0.168 |
| 4-1490 | 4-1930 | 0.327 | 61.8 | 2.4 | -5.11 | 1.173 | 103.1 | 0.449 | 1.690 | 316.8 | 540.8 | 0.930 | 2.449 | -2.51 | 0.474 | 89.4 | 167.5 | -7.5 | 0.159 |
| 4-1490 | 4-1950 | 0.331 | 62.8 | 1.8 | -5.41 | 1.172 | 103.3 | 0.449 | 1.683 | 315.8 | 545.0 | 0.927 | 2.439 | -2.31 | 0.478 | 86.0 | 163.1 | -7.1 | 0.156 |
| 4-1490 | 4-1970 | 0.337 | 63.8 | 1.5 | -5.66 | 1.172 | 103.7 | 0.451 | 1.680 | 314.6 | 548.9 | 0.922 | 2.437 | -2.15 | 0.483 | 82.8 | 158.9 | -6.6 | 0.156 |
| 4-1490 | 4-1990 | 0.346 | 65.1 | 1.5 | -5.89 | 1.171 | 104.2 | 0.455 | 1.679 | 313.1 | 552.7 | 0.916 | 2.442 | -2.03 | 0.490 | 79.8 | 155.4 | -6.1 | 0.161 |
| 4-1490 | 4-2010 | 0.357 | 66.5 | 1.7 | -6.10 | 1.172 | 104.9 | 0.460 | 1.681 | 311.3 | 556.2 | 0.907 | 2.454 | -1.93 | 0.497 | 77.1 | 153.0 | -5.5 | 0.170 |
| 4-1490 | 4-2030 | 0.370 | 68.1 | 2.1 | -6.29 | 1.172 | 105.6 | 0.467 | 1.684 | 309.1 | 559.4 | 0.897 | 2.471 | -1.86 | 0.506 | 74.5 | 151.6 | -5.0 | 0.181 |
| 4-1490 | 4-2050 | 0.385 | 69.8 | 2.7 | -6.47 | 1.173 | 106.6 | 0.477 | 1.689 | 306.8 | 562.4 | 0.884 | 2.494 | -1.80 | 0.515 | 72.0 | 151.2 | -4.5 | 0.195 |
| 4-1490 | 4-2070 | 0.403 | 71.6 | 3.5 | -6.65 | 1.174 | 107.7 | 0.488 | 1.695 | 303.8 | 565.1 | 0.868 | 2.523 | -1.77 | 0.524 | 69.7 | 151.8 | -4.1 | 0.212 |
| 4-1490 | 4-2090 | 0.425 | 73.7 | 4.4 | -6.82 | 1.175 | 109.0 | 0.501 | 1.703 | 300.5 | 567.5 | 0.849 | 2.556 | -1.75 | 0.533 | 67.4 | 153.3 | -3.7 | 0.230 |
| 4-1490 | 4-2110 | 0.450 | 75.8 | 5.4 | -7.00 | 1.176 | 110.5 | 0.517 | 1.711 | 296.9 | 569.7 | 0.827 | 2.595 | -1.75 | 0.543 | 65.1 | 155.6 | -3.4 | 0.251 |
| 4-1490 | 4-2130 | 0.479 | 78.2 | 6.4 | -7.18 | 1.178 | 112.2 | 0.535 | 1.720 | 292.9 | 571.5 | 0.800 | 2.641 | -1.77 | 0.552 | 62.8 | 158.5 | -3.2 | 0.275 |
| 4-1490 | 4-2150 | 0.513 | 80.7 | 7.5 | -7.37 | 1.179 | 114.2 | 0.556 | 1.730 | 288.4 | 573.0 | 0.768 | 2.693 | -1.81 | 0.561 | 60.4 | 162.0 | -2.9 | 0.301 |
| 4-1490 | 4-2170 | 0.552 | 83.4 | 8.7 | -7.58 | 1.180 | 116.5 | 0.581 | 1.741 | 283.4 | 574.1 | 0.729 | 2.752 | -1.87 | 0.570 | 57.9 | 166.0 | -2.7 | 0.330 |
| 4-1490 | 4-2190 | 0.597 | 86.2 | 9.8 | -7.80 | 1.182 | 119.1 | 0.610 | 1.752 | 277.8 | 574.7 | 0.684 | 2.820 | -1.96 | 0.579 | 55.2 | 170.6 | -2.6 | 0.362 |
| 4-1490 | 4-2210 | 0.650 | 89.4 | 11.0 | -8.05 | 1.184 | 122.2 | 0.643 | 1.764 | 271.7 | 574.8 | 0.631 | 2.898 | -2.08 | 0.587 | 52.2 | 175.7 | -2.4 | 0.399 |
| 4-1490 | 4-2230 | 0.712 | 92.7 | 12.1 | -8.35 | 1.185 | 125.8 | 0.680 | 1.777 | 264.9 | 574.2 | 0.568 | 2.986 | -2.26 | 0.595 | 48.8 | 181.3 | -2.3 | 0.440 |
| 4-1490 | 4-2250 | 0.784 | 96.4 | 13.2 | -8.71 | 1.187 | 130.0 | 0.723 | 1.791 | 257.3 | 573.0 | 0.496 | 3.088 | -2.50 | 0.602 | 45.0 | 187.4 | -2.2 | 0.488 |
| 4-1490 | 4-2270 | 0.867 | 100.5 | 14.2 | -9.16 | 1.189 | 134.9 | 0.771 | 1.806 | 248.8 | 570.9 | 0.414 | 3.197 | -2.85 | 0.609 | 40.5 | 194.1 | -2.1 | 0.541 |
| 4-1490 | 4-2290 | 0.963 | 104.9 | 15.0 | -9.78 | 1.191 | 140.6 | 0.822 | 1.822 | 239.3 | 567.9 | 0.324 | 3.319 | -3.35 | 0.615 | 35.4 | 201.3 | -2.0 | 0.602 |
| 4-1500 | 4-1700 | 0.591 | 72.7 | 3.5 | -8.72 | 1.353 | 111.4 | 0.881 | 7.305 | 314.1 | 474.3 | 0.872 | --- | 1.71 | 0.801 | 141.5 | 177.5 | 1.3 | 0.641 |
| 4-1500 | 4-1720 | 0.528 | 72.4 | 0.3 | -9.23 | 1.307 | 109.2 | 0.769 | 3.845 | 315.5 | 480.2 | 0.890 | --- | 2.20 | 0.720 | 137.3 | 179.6 | 2.0 | 0.551 |
| 4-1500 | 4-1740 | 0.484 | 72.4 | -4.1 | -10.18 | 1.272 | 107.3 | 0.684 | 2.866 | 317.0 | 486.3 | 0.906 | --- | 3.13 | 0.657 | 132.8 | 181.3 | 3.2 | 0.477 |
| 4-1500 | 4-1760 | 0.466 | 73.6 | -11.7 | -12.55 | 1.246 | 105.7 | 0.620 | 2.416 | 318.5 | 492.4 | 0.919 | --- | 5.47 | 0.607 | 128.2 | 182.7 | 6.3 | 0.416 |
| 4-1500 | 4-1780 | 0.655 | 89.6 | -38.4 | -29.09 | 1.227 | 104.3 | 0.570 | 2.165 | 320.0 | 498.5 | 0.930 | --- | 21.99 | 0.568 | 123.4 | 179.2 | 25.4 | 0.413 |
| 4-1500 | 4-1800 | 0.346 | 60.5 | 31.5 | 3.09 | 1.212 | 103.3 | 0.533 | 2.008 | 321.2 | 504.5 | 0.939 | --- | -10.21 | 0.538 | 118.6 | 183.6 | -14.8 | 0.329 |
| 4-1500 | 4-1820 | 0.325 | 63.5 | 10.4 | -2.94 | 1.201 | 102.4 | 0.503 | 1.905 | 322.4 | 510.4 | 0.946 | --- | -4.20 | 0.516 | 113.9 | 184.8 | -7.1 | 0.279 |
| 4-1500 | 4-1840 | 0.316 | 64.1 | 4.1 | -4.53 | 1.193 | 101.7 | 0.481 | 1.835 | 323.4 | 516.1 | 0.952 | --- | -2.65 | 0.500 | 109.2 | 184.5 | -5.1 | 0.244 |
| 4-1500 | 4-1860 | 0.309 | 64.2 | 0.8 | -5.26 | 1.186 | 101.2 | 0.465 | 1.786 | 324.1 | 521.6 | 0.955 | --- | -1.94 | 0.489 | 104.7 | 183.3 | -4.2 | 0.216 |
| 4-1500 | 4-1880 | 0.304 | 64.4 | -1.2 | -5.69 | 1.182 | 100.9 | 0.453 | 1.751 | 324.5 | 526.8 | 0.958 | --- | -1.53 | 0.482 | 100.5 | 181.3 | -3.8 | 0.193 |
| 4-1500 | 4-1900 | 0.301 | 64.6 | -2.6 | -5.98 | 1.178 | 100.7 | 0.445 | 1.727 | 324.6 | 531.8 | 0.959 | --- | -1.27 | 0.479 | 96.4 | 178.3 | -3.5 | 0.175 |
| 4-1500 | 4-1920 | 0.301 | 65.0 | -3.4 | -6.18 | 1.176 | 100.7 | 0.439 | 1.710 | 324.5 | 536.6 | 0.959 | --- | -1.09 | 0.478 | 92.7 | 174.5 | -3.2 | 0.162 |
| 4-1500 | 4-1940 | 0.302 | 65.7 | -3.8 | -6.34 | 1.174 | 100.8 | 0.436 | 1.699 | 323.9 | 541.1 | 0.958 | 2.441 | -0.96 | 0.481 | 89.1 | 170.2 | -3.0 | 0.154 |
| 4-1500 | 4-1960 | 0.305 | 66.5 | -3.8 | -6.47 | 1.173 | 101.0 | 0.436 | 1.693 | 323.1 | 545.4 | 0.955 | 2.430 | -0.86 | 0.485 | 85.9 | 165.8 | -2.8 | 0.150 |
| 4-1500 | 4-1980 | 0.310 | 67.6 | -3.6 | -6.58 | 1.173 | 101.3 | 0.437 | 1.690 | 321.9 | 549.4 | 0.951 | 2.428 | -0.79 | 0.490 | 82.9 | 161.6 | -2.5 | 0.151 |
| 4-1500 | 4-2000 | 0.317 | 68.8 | -3.1 | -6.67 | 1.173 | 101.8 | 0.440 | 1.689 | 320.4 | 553.1 | 0.945 | 2.433 | -0.73 | 0.497 | 80.1 | 158.2 | -2.3 | 0.155 |
| 4-1500 | 4-2020 | 0.326 | 70.3 | -2.4 | -6.75 | 1.173 | 102.4 | 0.445 | 1.691 | 318.6 | 556.7 | 0.938 | 2.444 | -0.68 | 0.505 | 77.5 | 155.7 | -2.1 | 0.163 |
| 4-1500 | 4-2040 | 0.337 | 72.0 | -1.5 | -6.82 | 1.174 | 103.2 | 0.452 | 1.695 | 316.4 | 559.9 | 0.930 | 2.460 | -0.65 | 0.513 | 75.0 | 154.3 | -1.8 | 0.174 |
| 4-1500 | 4-2060 | 0.350 | 73.8 | -0.5 | -6.89 | 1.174 | 104.1 | 0.460 | 1.700 | 313.9 | 563.0 | 0.919 | 2.481 | -0.62 | 0.522 | 72.7 | 154.0 | -1.7 | 0.188 |
| 4-1500 | 4-2080 | 0.366 | 75.8 | 0.7 | -6.95 | 1.175 | 105.1 | 0.469 | 1.706 | 311.1 | 565.8 | 0.905 | 2.507 | -0.60 | 0.531 | 70.5 | 154.6 | -1.5 | 0.203 |
| 4-1500 | 4-2100 | 0.384 | 78.0 | 1.9 | -7.01 | 1.176 | 106.3 | 0.481 | 1.714 | 307.9 | 568.3 | 0.889 | 2.538 | -0.59 | 0.540 | 68.4 | 156.1 | -1.3 | 0.220 |
| 4-1500 | 4-2120 | 0.406 | 80.3 | 3.2 | -7.07 | 1.178 | 107.7 | 0.495 | 1.722 | 304.3 | 570.5 | 0.870 | 2.575 | -0.58 | 0.549 | 66.3 | 158.3 | -1.2 | 0.240 |
| 4-1500 | 4-2140 | 0.432 | 82.8 | 4.6 | -7.13 | 1.179 | 109.3 | 0.511 | 1.731 | 300.3 | 572.5 | 0.846 | 2.616 | -0.58 | 0.559 | 64.2 | 161.1 | -1.1 | 0.261 |
| 4-1500 | 4-2160 | 0.461 | 85.5 | 6.0 | -7.19 | 1.180 | 111.2 | 0.530 | 1.741 | 295.9 | 574.1 | 0.819 | 2.664 | -0.59 | 0.568 | 62.1 | 164.6 | -1.0 | 0.285 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1500 | 4-2180 | 0.496 | 88.3 | 7.4 | -7.26 | 1.182 | 113.3 | 0.552 | 1.752 | 291.1 | 575.4 | 0.785 | 2.718 | -0.60 | 0.576 | 59.9 | 168.6 | -1.0 | 0.312 |
| 4-1500 | 4-2200 | 0.536 | 91.3 | 8.7 | -7.33 | 1.183 | 115.7 | 0.577 | 1.763 | 285.7 | 576.2 | 0.745 | 2.781 | -0.62 | 0.584 | 57.5 | 173.1 | -0.9 | 0.341 |
| 4-1500 | 4-2220 | 0.583 | 94.5 | 10.1 | -7.40 | 1.185 | 118.4 | 0.607 | 1.775 | 279.8 | 576.6 | 0.698 | 2.852 | -0.65 | 0.592 | 54.8 | 178.0 | -0.8 | 0.374 |
| 4-1500 | 4-2240 | 0.638 | 97.9 | 11.3 | -7.49 | 1.186 | 121.7 | 0.641 | 1.788 | 273.3 | 576.4 | 0.643 | 2.932 | -0.69 | 0.599 | 51.9 | 183.4 | -0.8 | 0.412 |
| 4-1500 | 4-2260 | 0.701 | 101.6 | 12.5 | -7.59 | 1.188 | 125.4 | 0.679 | 1.801 | 266.1 | 575.6 | 0.577 | 3.024 | -0.75 | 0.606 | 48.5 | 189.3 | -0.8 | 0.454 |
| 4-1500 | 4-2280 | 0.775 | 105.6 | 13.5 | -7.71 | 1.190 | 129.8 | 0.723 | 1.815 | 258.1 | 574.0 | 0.502 | 3.128 | -0.83 | 0.612 | 44.7 | 195.7 | -0.7 | 0.502 |
| 4-1500 | 4-2300 | 0.861 | 109.9 | 14.4 | -7.86 | 1.192 | 134.8 | 0.772 | 1.830 | 249.3 | 571.7 | 0.417 | 3.244 | -0.95 | 0.618 | 40.2 | 202.6 | -0.7 | 0.556 |
| 4-1510 | 4-1690 | 0.611 | 76.0 | 9.4 | -6.13 | 1.409 | 110.7 | 1.01558.761 | | 318.9 | 467.3 | 0.890 | --- | -1.15 | 0.892 | 144.2 | 178.2 | -0.8 | 0.731 |
| 4-1510 | 4-1710 | 0.528 | 75.0 | 8.2 | -5.93 | 1.348 | 108.3 | 0.863 | 6.614 | 320.3 | 473.3 | 0.908 | --- | -1.33 | 0.792 | 140.3 | 180.3 | -1.1 | 0.624 |
| 4-1510 | 4-1730 | 0.463 | 73.8 | 7.1 | -5.65 | 1.303 | 106.2 | 0.750 | 3.702 | 321.9 | 479.5 | 0.924 | --- | -1.58 | 0.714 | 136.0 | 182.3 | -1.5 | 0.537 |
| 4-1510 | 4-1750 | 0.411 | 72.2 | 6.5 | -5.24 | 1.269 | 104.4 | 0.666 | 2.810 | 323.6 | 485.8 | 0.937 | --- | -1.96 | 0.652 | 131.5 | 184.0 | -2.1 | 0.464 |
| 4-1510 | 4-1770 | 0.369 | 70.4 | 7.0 | -4.55 | 1.245 | 102.9 | 0.603 | 2.389 | 325.3 | 492.1 | 0.949 | --- | -2.63 | 0.604 | 126.9 | 185.4 | -3.2 | 0.403 |
| 4-1510 | 4-1790 | 0.333 | 67.9 | 10.4 | -3.12 | 1.226 | 101.6 | 0.554 | 2.151 | 327.0 | 498.4 | 0.958 | --- | -4.03 | 0.567 | 122.2 | 186.4 | -5.5 | 0.352 |
| 4-1510 | 4-1810 | 0.305 | 62.9 | 27.8 | 1.67 | 1.212 | 100.6 | 0.518 | 2.002 | 328.5 | 504.6 | 0.966 | --- | -8.80 | 0.538 | 117.4 | 186.3 | -13.3 | 0.316 |
| 4-1510 | 4-1830 | 0.845 | 111.5 | -53.9 | -43.27 | 1.201 | 99.9 | 0.490 | 1.903 | 329.6 | 510.6 | 0.971 | --- | 36.17 | 0.517 | 112.8 | 173.0 | 41.1 | 0.428 |
| 4-1510 | 4-1850 | 0.367 | 74.0 | -25.0 | -13.24 | 1.193 | 99.2 | 0.469 | 1.835 | 330.8 | 516.5 | 0.976 | --- | 6.16 | 0.502 | 108.2 | 186.3 | 12.2 | 0.243 |
| 4-1510 | 4-1870 | 0.325 | 70.6 | -18.8 | -10.38 | 1.187 | 98.7 | 0.453 | 1.788 | 331.6 | 522.0 | 0.979 | --- | 3.33 | 0.492 | 103.8 | 185.4 | 7.6 | 0.211 |
| 4-1510 | 4-1890 | 0.307 | 69.2 | -16.4 | -9.31 | 1.182 | 98.5 | 0.441 | 1.755 | 332.1 | 527.4 | 0.980 | --- | 2.29 | 0.486 | 99.6 | 183.3 | 5.8 | 0.188 |
| 4-1510 | 4-1910 | 0.298 | 68.5 | -15.1 | -8.74 | 1.179 | 98.3 | 0.433 | 1.732 | 332.2 | 532.4 | 0.981 | --- | 1.74 | 0.483 | 95.7 | 180.3 | 4.9 | 0.170 |
| 4-1510 | 4-1930 | 0.292 | 68.4 | -14.0 | -8.39 | 1.177 | 98.3 | 0.428 | 1.716 | 332.0 | 537.2 | 0.981 | --- | 1.41 | 0.484 | 92.1 | 176.4 | 4.3 | 0.158 |
| 4-1510 | 4-1950 | 0.290 | 68.7 | -13.0 | -8.14 | 1.175 | 98.4 | 0.426 | 1.706 | 331.5 | 541.8 | 0.980 | 2.432 | 1.19 | 0.486 | 88.7 | 172.1 | 3.9 | 0.150 |
| 4-1510 | 4-1970 | 0.290 | 69.3 | -12.0 | -7.95 | 1.174 | 98.6 | 0.425 | 1.700 | 330.6 | 546.0 | 0.978 | 2.423 | 1.04 | 0.491 | 85.6 | 167.7 | 3.5 | 0.147 |
| 4-1510 | 4-1990 | 0.292 | 70.3 | -10.8 | -7.81 | 1.174 | 99.0 | 0.426 | 1.698 | 329.4 | 550.1 | 0.974 | 2.421 | 0.92 | 0.496 | 82.7 | 163.6 | 3.1 | 0.147 |
| 4-1510 | 4-2010 | 0.296 | 71.6 | -9.5 | -7.69 | 1.174 | 99.5 | 0.429 | 1.698 | 327.9 | 553.8 | 0.970 | 2.426 | 0.84 | 0.503 | 80.0 | 160.3 | 2.7 | 0.152 |
| 4-1510 | 4-2030 | 0.302 | 73.1 | -8.0 | -7.59 | 1.174 | 100.1 | 0.433 | 1.700 | 326.0 | 557.4 | 0.964 | 2.436 | 0.77 | 0.511 | 77.6 | 157.9 | 2.4 | 0.160 |
| 4-1510 | 4-2050 | 0.310 | 74.9 | -6.5 | -7.50 | 1.175 | 100.8 | 0.438 | 1.704 | 323.8 | 560.7 | 0.957 | 2.451 | 0.72 | 0.520 | 75.3 | 156.7 | 2.1 | 0.170 |
| 4-1510 | 4-2070 | 0.321 | 76.9 | -4.8 | -7.42 | 1.176 | 101.7 | 0.446 | 1.710 | 321.3 | 563.7 | 0.948 | 2.471 | 0.68 | 0.528 | 73.2 | 156.4 | 1.9 | 0.183 |
| 4-1510 | 4-2090 | 0.334 | 79.2 | -3.1 | -7.35 | 1.177 | 102.7 | 0.454 | 1.716 | 318.4 | 566.5 | 0.937 | 2.496 | 0.65 | 0.537 | 71.1 | 157.1 | 1.7 | 0.197 |
| 4-1510 | 4-2110 | 0.349 | 81.6 | -1.4 | -7.28 | 1.178 | 103.8 | 0.465 | 1.724 | 315.2 | 569.1 | 0.923 | 2.525 | 0.63 | 0.547 | 69.2 | 158.6 | 1.5 | 0.214 |
| 4-1510 | 4-2130 | 0.368 | 84.1 | 0.4 | -7.22 | 1.179 | 105.1 | 0.477 | 1.733 | 311.7 | 571.4 | 0.907 | 2.559 | 0.61 | 0.556 | 67.3 | 160.9 | 1.4 | 0.232 |
| 4-1510 | 4-2150 | 0.390 | 86.9 | 2.2 | -7.15 | 1.180 | 106.6 | 0.491 | 1.742 | 307.7 | 573.4 | 0.887 | 2.597 | 0.60 | 0.565 | 65.4 | 163.8 | 1.2 | 0.252 |
| 4-1510 | 4-2170 | 0.415 | 89.8 | 4.0 | -7.09 | 1.182 | 108.3 | 0.508 | 1.752 | 303.4 | 575.2 | 0.863 | 2.641 | 0.60 | 0.573 | 63.5 | 167.2 | 1.1 | 0.274 |
| 4-1510 | 4-2190 | 0.446 | 92.8 | 5.7 | -7.02 | 1.183 | 110.3 | 0.527 | 1.763 | 298.6 | 576.5 | 0.834 | 2.691 | 0.61 | 0.582 | 61.5 | 171.2 | 1.0 | 0.298 |
| 4-1510 | 4-2210 | 0.481 | 96.0 | 7.3 | -6.96 | 1.185 | 112.5 | 0.549 | 1.774 | 293.4 | 577.5 | 0.799 | 2.748 | 0.62 | 0.590 | 59.3 | 175.6 | 1.0 | 0.325 |
| 4-1510 | 4-2230 | 0.523 | 99.4 | 8.9 | -6.88 | 1.186 | 115.0 | 0.575 | 1.786 | 287.7 | 578.1 | 0.758 | 2.813 | 0.64 | 0.597 | 57.0 | 180.5 | 0.9 | 0.355 |
| 4-1510 | 4-2250 | 0.571 | 103.0 | 10.3 | -6.80 | 1.188 | 117.9 | 0.606 | 1.798 | 281.4 | 578.2 | 0.709 | 2.887 | 0.67 | 0.604 | 54.4 | 185.8 | 0.9 | 0.388 |
| 4-1510 | 4-2270 | 0.628 | 106.7 | 11.6 | -6.71 | 1.190 | 121.3 | 0.641 | 1.811 | 274.5 | 577.8 | 0.651 | 2.971 | 0.72 | 0.610 | 51.5 | 191.5 | 0.8 | 0.426 |
| 4-1510 | 4-2290 | 0.694 | 110.7 | 12.7 | -6.61 | 1.191 | 125.2 | 0.680 | 1.825 | 267.0 | 576.7 | 0.583 | 3.067 | 0.78 | 0.616 | 48.2 | 197.6 | 0.8 | 0.468 |
| 4-1510 | 4-2310 | 0.770 | 115.0 | 13.6 | -6.48 | 1.193 | 129.7 | 0.725 | 1.840 | 258.7 | 574.9 | 0.505 | 3.174 | 0.87 | 0.621 | 44.3 | 204.2 | 0.7 | 0.517 |
| 4-1520 | 4-1700 | 0.549 | 78.3 | 11.4 | -4.71 | 1.400 | 107.3 | 0.99106.908 | | 325.3 | 466.5 | 0.926 | --- | -2.82 | 0.877 | 142.9 | 180.8 | -2.1 | 0.710 |
| 4-1520 | 4-1720 | 0.470 | 76.8 | 10.9 | -4.31 | 1.341 | 105.0 | 0.840 | 5.869 | 327.0 | 472.8 | 0.941 | --- | -3.15 | 0.780 | 138.9 | 182.8 | -2.7 | 0.606 |
| 4-1520 | 4-1740 | 0.409 | 74.8 | 10.8 | -3.80 | 1.298 | 103.1 | 0.729 | 3.519 | 328.9 | 479.3 | 0.955 | --- | -3.58 | 0.705 | 134.6 | 184.7 | -3.4 | 0.521 |
| 4-1520 | 4-1760 | 0.360 | 72.5 | 11.6 | -3.12 | 1.266 | 101.4 | 0.646 | 2.731 | 330.9 | 485.8 | 0.966 | --- | -4.18 | 0.645 | 130.1 | 186.3 | -4.6 | 0.450 |
| 4-1520 | 4-1780 | 0.321 | 69.7 | 13.8 | -2.16 | 1.242 | 100.0 | 0.585 | 2.347 | 332.8 | 492.4 | 0.975 | --- | -5.07 | 0.599 | 125.5 | 187.5 | -6.3 | 0.392 |
| 4-1520 | 4-1800 | 0.290 | 66.3 | 18.9 | -0.65 | 1.224 | 98.8 | 0.538 | 2.126 | 334.7 | 498.9 | 0.982 | --- | -6.51 | 0.563 | 120.8 | 188.3 | -9.2 | 0.344 |
| 4-1520 | 4-1820 | 0.271 | 61.7 | 30.4 | 2.10 | 1.210 | 97.8 | 0.503 | 1.987 | 336.4 | 505.3 | 0.988 | --- | -9.18 | 0.536 | 116.0 | 188.2 | -14.5 | 0.307 |
| 4-1520 | 4-1840 | 0.301 | 51.7 | 57.3 | 8.77 | 1.200 | 97.1 | 0.476 | 1.894 | 338.0 | 511.4 | 0.992 | --- | -15.78 | 0.516 | 111.4 | 185.9 | -26.0 | 0.298 |
| 4-1520 | 4-1860 | 0.827 | 238.9 | 67.4 | 43.03 | 1.193 | 96.3 | 0.456 | 1.831 | 339.7 | 517.4 | 0.996 | --- | -49.96 | 0.502 | 106.8 | 165.1 | -46.1 | 0.511 |
| 4-1520 | 4-1880 | 0.683 | 101.4 | -57.2 | -34.70 | 1.187 | 96.4 | 0.443 | 1.786 | 339.1 | 522.9 | 0.996 | --- | 27.84 | 0.493 | 102.7 | 177.2 | 42.8 | 0.331 |
| 4-1520 | 4-1900 | 0.420 | 79.7 | -42.5 | -18.93 | 1.183 | 96.0 | 0.432 | 1.755 | 339.9 | 528.3 | 0.997 | --- | 12.15 | 0.488 | 98.6 | 182.5 | 28.2 | 0.215 |
| 4-1520 | 4-1920 | 0.349 | 74.3 | -34.5 | -14.40 | 1.180 | 95.9 | 0.424 | 1.734 | 340.1 | 533.4 | 0.998 | --- | 7.70 | 0.487 | 94.8 | 180.7 | 21.1 | 0.180 |
| 4-1520 | 4-1940 | 0.318 | 72.1 | -29.5 | -12.26 | 1.178 | 95.9 | 0.420 | 1.720 | 339.9 | 538.2 | 0.998 | --- | 5.63 | 0.488 | 91.3 | 177.2 | 17.1 | 0.162 |
| 4-1520 | 4-1960 | 0.302 | 71.3 | -25.9 | -11.00 | 1.176 | 96.0 | 0.417 | 1.711 | 339.3 | 542.7 | 0.997 | 2.424 | 4.46 | 0.491 | 88.0 | 173.0 | 14.5 | 0.152 |
| 4-1520 | 4-1980 | 0.293 | 71.4 | -22.9 | -10.16 | 1.176 | 96.3 | 0.417 | 1.706 | 338.4 | 547.0 | 0.995 | 2.416 | 3.70 | 0.496 | 85.1 | 168.8 | 12.4 | 0.148 |
| 4-1520 | 4-2000 | 0.288 | 72.0 | -20.3 | -9.55 | 1.175 | 96.7 | 0.417 | 1.704 | 337.1 | 551.0 | 0.993 | 2.415 | 3.18 | 0.502 | 82.3 | 164.9 | 10.7 | 0.148 |
| 4-1520 | 4-2020 | 0.287 | 73.2 | -17.7 | -9.08 | 1.176 | 97.2 | 0.420 | 1.705 | 335.5 | 554.7 | 0.989 | 2.420 | 2.80 | 0.509 | 79.8 | 161.8 | 9.3 | 0.152 |
| 4-1520 | 4-2040 | 0.288 | 74.7 | -15.3 | -8.70 | 1.176 | 97.8 | 0.423 | 1.708 | 333.6 | 558.2 | 0.985 | 2.431 | 2.52 | 0.517 | 77.5 | 159.7 | 8.0 | 0.159 |
| 4-1520 | 4-2060 | 0.292 | 76.7 | -12.8 | -8.39 | 1.177 | 98.5 | 0.428 | 1.712 | 331.4 | 561.5 | 0.979 | 2.446 | 2.30 | 0.526 | 75.4 | 158.7 | 6.9 | 0.169 |
| 4-1520 | 4-2080 | 0.299 | 78.9 | -10.4 | -8.11 | 1.177 | 99.3 | 0.435 | 1.718 | 328.8 | 564.6 | 0.972 | 2.465 | 2.14 | 0.535 | 73.4 | 158.6 | 6.1 | 0.181 |
| 4-1520 | 4-2100 | 0.308 | 81.4 | -7.9 | -7.87 | 1.179 | 100.3 | 0.442 | 1.725 | 325.9 | 567.4 | 0.962 | 2.488 | 2.01 | 0.544 | 71.5 | 159.4 | 5.3 | 0.195 |
| 4-1520 | 4-2120 | 0.320 | 84.1 | -5.5 | -7.65 | 1.180 | 101.4 | 0.451 | 1.733 | 322.6 | 570.0 | 0.951 | 2.515 | 1.92 | 0.553 | 69.7 | 161.1 | 4.7 | 0.210 |
| 4-1520 | 4-2140 | 0.334 | 87.0 | -3.1 | -7.44 | 1.181 | 102.6 | 0.462 | 1.742 | 319.1 | 572.3 | 0.938 | 2.547 | 1.85 | 0.562 | 68.0 | 163.4 | 4.2 | 0.227 |
| 4-1520 | 4-2160 | 0.353 | 90.1 | -0.8 | -7.25 | 1.182 | 104.1 | 0.474 | 1.752 | 315.1 | 574.4 | 0.921 | 2.583 | 1.80 | 0.571 | 66.2 | 166.4 | 3.8 | 0.246 |
| 4-1520 | 4-2180 | 0.375 | 93.4 | 1.5 | -7.05 | 1.184 | 105.7 | 0.489 | 1.762 | 310.8 | 576.2 | 0.900 | 2.624 | 1.77 | 0.579 | 64.5 | 169.8 | 3.5 | 0.266 |
| 4-1520 | 4-2200 | 0.401 | 96.8 | 3.6 | -6.86 | 1.185 | 107.5 | 0.506 | 1.773 | 306.1 | 577.6 | 0.876 | 2.670 | 1.77 | 0.587 | 62.7 | 173.8 | 3.2 | 0.288 |
| 4-1520 | 4-2220 | 0.432 | 100.3 | 5.6 | -6.67 | 1.187 | 109.5 | 0.526 | 1.784 | 301.0 | 578.8 | 0.846 | 2.723 | 1.79 | 0.595 | 60.8 | 178.2 | 3.0 | 0.313 |
| 4-1520 | 4-2240 | 0.469 | 104.0 | 7.4 | -6.46 | 1.188 | 111.9 | 0.549 | 1.796 | 295.4 | 579.5 | 0.810 | 2.782 | 1.82 | 0.602 | 58.8 | 183.0 | 2.8 | 0.340 |
| 4-1520 | 4-2260 | 0.512 | 107.8 | 9.0 | -6.25 | 1.190 | 114.5 | 0.576 | 1.809 | 289.3 | 579.8 | 0.767 | 2.850 | 1.89 | 0.608 | 56.5 | 188.2 | 2.6 | 0.370 |
| 4-1520 | 4-2280 | 0.562 | 111.7 | 10.5 | -6.01 | 1.191 | 117.6 | 0.607 | 1.822 | 282.7 | 579.7 | 0.717 | 2.927 | 1.98 | 0.614 | 54.0 | 193.8 | 2.4 | 0.404 |
| 4-1520 | 4-2300 | 0.620 | 115.8 | 11.7 | -5.74 | 1.193 | 121.1 | 0.642 | 1.835 | 275.5 | 578.9 | 0.656 | 3.014 | 2.12 | 0.619 | 51.1 | 199.8 | 2.3 | 0.441 |
| 4-1520 | 4-2320 | 0.689 | 120.1 | 12.7 | -5.43 | 1.195 | 125.1 | 0.683 | 1.850 | 267.6 | 577.5 | 0.586 | 3.113 | 2.31 | 0.623 | 47.8 | 206.2 | 2.2 | 0.484 |
| 4-1530 | 4-1690 | 0.586 | 81.2 | 13.1 | -4.15 | 1.466 | 105.9 | 1.170-5.571 | | 330.6 | 460.0 | 0.945 | --- | -3.74 | 0.978 | 145.3 | 181.2 | -2.6 | 0.810 |
| 4-1530 | 4-1710 | 0.490 | 79.4 | 12.7 | -3.73 | 1.389 | 103.6 | 0.96023.940 | | 332.3 | 466.3 | 0.958 | --- | -4.01 | 0.858 | 141.6 | 183.2 | -3.1 | 0.685 |
| 4-1530 | 4-1730 | 0.417 | 77.1 | 12.6 | -3.25 | 1.333 | 101.5 | 0.811 | 5.146 | 334.3 | 472.8 | 0.970 | --- | -4.36 | 0.765 | 137.5 | 185.1 | -3.9 | 0.584 |
| 4-1530 | 4-1750 | 0.360 | 74.2 | 13.1 | -2.67 | 1.292 | 99.7 | 0.704 | 3.310 | 336.5 | 479.6 | 0.980 | --- | -4.82 | 0.692 | 133.2 | 186.8 | -4.8 | 0.502 |
| 4-1530 | 4-1770 | 0.317 | 70.9 | 14.5 | -1.94 | 1.261 | 98.2 | 0.625 | 2.634 | 338.7 | 486.4 | 0.988 | --- | -5.41 | 0.635 | 128.6 | 188.2 | -6.2 | 0.434 |
| 4-1530 | 4-1790 | 0.283 | 67.1 | 17.4 | -1.00 | 1.239 | 96.9 | 0.566 | 2.292 | 340.9 | 493.3 | 0.995 | --- | -6.23 | 0.591 | 123.9 | 189.3 | -8.1 | 0.378 |
| 4-1530 | 4-1810 | 0.258 | 62.8 | 22.5 | 0.29 | 1.222 | 95.8 | 0.522 | 2.091 | 343.0 | 500.0 | 1.000 | --- | -7.40 | 0.558 | 119.2 | 189.8 | -10.9 | 0.332 |
| 4-1530 | 4-1830 | 0.243 | 57.5 | 31.4 | 2.22 | 1.209 | 95.0 | 0.489 | 1.964 | 344.9 | 506.5 | 1.004 | --- | -9.20 | 0.532 | 114.5 | 189.7 | -15.2 | 0.296 |
| 4-1530 | 4-1850 | 0.249 | 49.7 | 46.5 | 5.44 | 1.199 | 94.3 | 0.464 | 1.879 | 346.5 | 512.8 | 1.006 | --- | -12.30 | 0.514 | 109.9 | 188.4 | -22.1 | 0.274 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1530 | 4-1870 | 0.313 | 29.1 | 69.2 | 11.96 | 1.192 | 93.7 | 0.446 | 1.821 | 347.9 | 518.8 | 1.008 | --- | -18.70 | 0.502 | 105.4 | 184.5 | -33.5 | 0.281 |
| 4-1530 | 4-1890 | 0.620 | 265.2 | 72.3 | 31.37 | 1.187 | 93.2 | 0.433 | 1.780 | 349.3 | 524.6 | 1.010 | --- | -37.99 | 0.494 | 101.2 | 171.8 | -47.5 | 0.405 |
| 4-1530 | 4-1910 | 1.308 | 166.3 | -63.9 | -73.56 | 1.183 | 94.1 | 0.425 | 1.752 | 346.3 | 529.5 | 1.006 | --- | 67.06 | 0.490 | 97.6 | 160.5 | 45.1 | 0.632 |
| 4-1530 | 4-1930 | 0.617 | 94.6 | -60.4 | -31.35 | 1.180 | 93.6 | 0.418 | 1.733 | 347.9 | 534.7 | 1.008 | --- | 24.98 | 0.489 | 93.8 | 175.2 | 45.8 | 0.287 |
| 4-1530 | 4-1950 | 0.436 | 79.8 | -49.6 | -20.70 | 1.179 | 93.5 | 0.414 | 1.720 | 347.9 | 539.5 | 1.008 | --- | 14.46 | 0.491 | 90.3 | 175.8 | 36.8 | 0.205 |
| 4-1530 | 4-1970 | 0.365 | 75.0 | -42.1 | -16.22 | 1.178 | 93.7 | 0.411 | 1.712 | 347.3 | 544.0 | 1.008 | 2.417 | 10.12 | 0.495 | 87.2 | 172.8 | 29.9 | 0.174 |
| 4-1530 | 4-1990 | 0.328 | 73.2 | -36.4 | -13.76 | 1.177 | 94.0 | 0.411 | 1.709 | 346.3 | 548.2 | 1.007 | 2.411 | 7.79 | 0.500 | 84.4 | 169.1 | 24.7 | 0.161 |
| 4-1530 | 4-2010 | 0.307 | 73.0 | -31.8 | -12.18 | 1.177 | 94.4 | 0.412 | 1.708 | 345.0 | 552.1 | 1.005 | 2.411 | 6.35 | 0.507 | 81.8 | 165.6 | 20.7 | 0.157 |
| 4-1530 | 4-2030 | 0.295 | 73.7 | -27.7 | -11.07 | 1.177 | 94.9 | 0.414 | 1.710 | 343.3 | 555.8 | 1.003 | 2.417 | 5.39 | 0.514 | 79.4 | 162.9 | 17.4 | 0.159 |
| 4-1530 | 4-2050 | 0.288 | 75.1 | -24.0 | -10.23 | 1.178 | 95.5 | 0.417 | 1.714 | 341.3 | 559.3 | 0.999 | 2.428 | 4.70 | 0.523 | 77.2 | 161.1 | 14.8 | 0.164 |
| 4-1530 | 4-2070 | 0.285 | 77.1 | -20.4 | -9.57 | 1.178 | 96.2 | 0.421 | 1.719 | 339.0 | 562.5 | 0.995 | 2.443 | 4.20 | 0.531 | 75.2 | 160.3 | 12.6 | 0.172 |
| 4-1530 | 4-2090 | 0.286 | 79.5 | -17.0 | -9.02 | 1.179 | 97.0 | 0.426 | 1.725 | 336.3 | 565.5 | 0.990 | 2.461 | 3.82 | 0.540 | 73.4 | 160.5 | 10.9 | 0.183 |
| 4-1530 | 4-2110 | 0.290 | 82.3 | -13.7 | -8.55 | 1.180 | 98.0 | 0.433 | 1.733 | 333.4 | 568.3 | 0.983 | 2.484 | 3.53 | 0.549 | 71.6 | 161.6 | 9.5 | 0.195 |
| 4-1530 | 4-2130 | 0.297 | 85.4 | -10.5 | -8.14 | 1.182 | 99.0 | 0.441 | 1.742 | 330.1 | 570.9 | 0.974 | 2.510 | 3.31 | 0.558 | 70.0 | 163.4 | 8.3 | 0.210 |
| 4-1530 | 4-2150 | 0.307 | 88.8 | -7.4 | -7.76 | 1.183 | 100.3 | 0.450 | 1.751 | 326.5 | 573.2 | 0.963 | 2.540 | 3.14 | 0.567 | 68.4 | 165.8 | 7.4 | 0.225 |
| 4-1530 | 4-2170 | 0.321 | 92.4 | -4.4 | -7.42 | 1.184 | 101.6 | 0.461 | 1.761 | 322.5 | 575.3 | 0.949 | 2.573 | 3.02 | 0.576 | 66.9 | 168.9 | 6.6 | 0.242 |
| 4-1530 | 4-2190 | 0.339 | 96.1 | -1.5 | -7.09 | 1.186 | 103.1 | 0.474 | 1.772 | 318.2 | 577.1 | 0.932 | 2.612 | 2.94 | 0.584 | 65.3 | 172.4 | 6.0 | 0.261 |
| 4-1530 | 4-2210 | 0.361 | 100.0 | 1.1 | -6.77 | 1.187 | 104.9 | 0.489 | 1.783 | 313.5 | 578.7 | 0.911 | 2.655 | 2.90 | 0.592 | 63.7 | 176.4 | 5.5 | 0.282 |
| 4-1530 | 4-2230 | 0.388 | 103.9 | 3.5 | -6.45 | 1.189 | 106.8 | 0.506 | 1.795 | 308.4 | 579.9 | 0.886 | 2.703 | 2.89 | 0.599 | 62.0 | 180.8 | 5.0 | 0.304 |
| 4-1530 | 4-2250 | 0.420 | 108.0 | 5.7 | -6.13 | 1.190 | 109.0 | 0.527 | 1.807 | 302.9 | 580.8 | 0.855 | 2.758 | 2.92 | 0.606 | 60.2 | 185.6 | 4.7 | 0.329 |
| 4-1530 | 4-2270 | 0.458 | 112.2 | 7.6 | -5.79 | 1.192 | 111.4 | 0.550 | 1.819 | 297.0 | 581.2 | 0.818 | 2.820 | 2.98 | 0.612 | 58.3 | 190.7 | 4.4 | 0.356 |
| 4-1530 | 4-2290 | 0.503 | 116.4 | 9.2 | -5.43 | 1.194 | 114.2 | 0.578 | 1.832 | 290.6 | 581.3 | 0.774 | 2.891 | 3.09 | 0.617 | 56.0 | 196.2 | 4.1 | 0.386 |
| 4-1530 | 4-2310 | 0.555 | 120.7 | 10.6 | -5.04 | 1.195 | 117.4 | 0.609 | 1.846 | 283.6 | 580.8 | 0.721 | 2.970 | 3.25 | 0.622 | 53.5 | 202.1 | 3.9 | 0.420 |
| 4-1530 | 4-2330 | 0.616 | 125.1 | 11.6 | -4.60 | 1.197 | 121.0 | 0.646 | 1.860 | 276.1 | 579.8 | 0.659 | 3.061 | 3.47 | 0.626 | 50.7 | 208.3 | 3.7 | 0.457 |
| 4-1540 | 4-1680 | 0.642 | 83.0 | 14.1 | -3.90 | 1.553 | 104.0 | 1.423 | -2.278 | 336.2 | 453.7 | 0.963 | --- | -4.44 | 1.103 | 147.4 | 181.5 | -2.8 | 0.932 |
| 4-1540 | 4-1700 | 0.523 | 81.2 | 13.7 | -3.48 | 1.449 | 101.7 | 1.124 | -7.848 | 337.9 | 460.0 | 0.974 | --- | -4.64 | 0.952 | 144.0 | 183.5 | -3.3 | 0.778 |
| 4-1540 | 4-1720 | 0.435 | 78.5 | 13.5 | -3.02 | 1.376 | 99.6 | 0.921 | 12.533 | 339.9 | 466.6 | 0.984 | --- | -4.90 | 0.836 | 140.2 | 185.4 | -4.0 | 0.658 |
| 4-1540 | 4-1740 | 0.369 | 75.1 | 13.8 | -2.50 | 1.323 | 97.7 | 0.779 | 4.489 | 342.3 | 473.5 | 0.993 | --- | -5.23 | 0.747 | 136.0 | 187.1 | -4.8 | 0.561 |
| 4-1540 | 4-1760 | 0.319 | 71.0 | 14.6 | -1.90 | 1.284 | 96.1 | 0.676 | 3.088 | 344.8 | 480.6 | 0.999 | --- | -5.65 | 0.677 | 131.6 | 188.6 | -5.9 | 0.482 |
| 4-1540 | 4-1780 | 0.282 | 66.5 | 16.4 | -1.18 | 1.256 | 94.7 | 0.602 | 2.523 | 347.4 | 487.8 | 1.004 | --- | -6.18 | 0.623 | 127.0 | 189.8 | -7.4 | 0.416 |
| 4-1540 | 4-1800 | 0.255 | 61.5 | 19.3 | -0.31 | 1.235 | 93.6 | 0.547 | 2.225 | 349.8 | 494.9 | 1.008 | --- | -6.88 | 0.581 | 122.3 | 190.7 | -9.3 | 0.363 |
| 4-1540 | 4-1820 | 0.236 | 56.1 | 24.1 | 0.81 | 1.219 | 92.7 | 0.507 | 2.048 | 352.1 | 501.8 | 1.010 | --- | -7.82 | 0.550 | 117.5 | 191.0 | -12.0 | 0.318 |
| 4-1540 | 4-1840 | 0.226 | 50.1 | 31.2 | 2.30 | 1.207 | 91.9 | 0.477 | 1.934 | 354.1 | 508.5 | 1.012 | --- | -9.13 | 0.527 | 112.8 | 190.6 | -15.8 | 0.283 |
| 4-1540 | 4-1860 | 0.228 | 42.6 | 41.4 | 4.43 | 1.198 | 91.3 | 0.455 | 1.858 | 355.7 | 514.8 | 1.013 | --- | -11.09 | 0.510 | 108.2 | 189.4 | -21.1 | 0.259 |
| 4-1540 | 4-1880 | 0.252 | 30.8 | 55.3 | 7.77 | 1.191 | 90.9 | 0.439 | 1.806 | 357.0 | 520.8 | 1.013 | --- | -14.27 | 0.499 | 103.8 | 186.8 | -28.7 | 0.248 |
| 4-1540 | 4-1900 | 0.329 | 0.7 | 70.6 | 13.84 | 1.187 | 90.6 | 0.427 | 1.769 | 358.0 | 526.5 | 1.013 | --- | -20.17 | 0.493 | 99.7 | 181.9 | -38.9 | 0.267 |
| 4-1540 | 4-1920 | 0.558 | 282.9 | 70.4 | 27.95 | 1.183 | 90.3 | 0.419 | 1.745 | 358.9 | 531.9 | 1.014 | --- | -34.10 | 0.490 | 95.8 | 172.5 | -48.7 | 0.364 |
| 4-1540 | 4-1960 | 0.903 | 123.7 | -72.6 | -48.28 | 1.179 | 91.4 | 0.410 | 1.717 | 355.1 | 540.9 | 1.013 | 2.422 | 42.47 | 0.493 | 89.3 | 168.6 | 50.7 | 0.430 |
| 4-1540 | 4-1980 | 0.561 | 85.7 | -61.3 | -28.26 | 1.179 | 91.4 | 0.408 | 1.712 | 355.2 | 545.4 | 1.013 | 2.411 | 22.63 | 0.498 | 86.3 | 171.0 | 46.8 | 0.262 |
| 4-1540 | 4-2000 | 0.430 | 76.9 | -51.9 | -20.55 | 1.178 | 91.6 | 0.408 | 1.710 | 354.3 | 549.6 | 1.012 | 2.407 | 15.10 | 0.504 | 83.5 | 168.9 | 39.4 | 0.205 |
| 4-1540 | 4-2020 | 0.366 | 74.0 | -44.7 | -16.56 | 1.178 | 92.0 | 0.409 | 1.710 | 353.0 | 553.4 | 1.011 | 2.409 | 11.31 | 0.511 | 81.0 | 166.1 | 32.7 | 0.183 |
| 4-1540 | 4-2040 | 0.329 | 73.5 | -38.8 | -14.12 | 1.179 | 92.6 | 0.410 | 1.713 | 351.2 | 557.0 | 1.010 | 2.416 | 9.05 | 0.519 | 78.8 | 163.8 | 27.2 | 0.175 |
| 4-1540 | 4-2060 | 0.307 | 74.4 | -33.6 | -12.44 | 1.180 | 93.2 | 0.413 | 1.718 | 349.1 | 560.4 | 1.008 | 2.427 | 7.58 | 0.528 | 76.8 | 162.3 | 22.7 | 0.176 |
| 4-1540 | 4-2080 | 0.293 | 76.2 | -28.9 | -11.21 | 1.180 | 93.9 | 0.417 | 1.724 | 346.7 | 563.6 | 1.006 | 2.442 | 6.56 | 0.536 | 74.9 | 161.9 | 19.1 | 0.181 |
| 4-1540 | 4-2100 | 0.285 | 78.8 | -24.4 | -10.24 | 1.181 | 94.7 | 0.421 | 1.731 | 344.0 | 566.6 | 1.002 | 2.461 | 5.81 | 0.546 | 73.2 | 162.3 | 16.2 | 0.189 |
| 4-1540 | 4-2120 | 0.282 | 81.8 | -20.2 | -9.45 | 1.183 | 95.7 | 0.427 | 1.740 | 340.9 | 569.3 | 0.997 | 2.483 | 5.26 | 0.555 | 71.6 | 163.6 | 14.0 | 0.200 |
| 4-1540 | 4-2140 | 0.282 | 85.3 | -16.1 | -8.79 | 1.184 | 96.7 | 0.434 | 1.749 | 337.6 | 571.9 | 0.990 | 2.508 | 4.84 | 0.564 | 70.1 | 165.6 | 12.2 | 0.213 |
| 4-1540 | 4-2160 | 0.287 | 89.2 | -12.2 | -8.20 | 1.185 | 97.9 | 0.442 | 1.759 | 333.9 | 574.2 | 0.982 | 2.536 | 4.53 | 0.573 | 68.6 | 168.2 | 10.7 | 0.227 |
| 4-1540 | 4-2180 | 0.296 | 93.3 | -8.5 | -7.68 | 1.187 | 99.3 | 0.451 | 1.770 | 329.9 | 576.3 | 0.971 | 2.568 | 4.29 | 0.581 | 67.2 | 171.3 | 9.5 | 0.242 |
| 4-1540 | 4-2200 | 0.309 | 97.7 | -5.0 | -7.19 | 1.188 | 100.7 | 0.462 | 1.781 | 325.5 | 578.1 | 0.957 | 2.604 | 4.12 | 0.589 | 65.8 | 175.0 | 8.6 | 0.260 |
| 4-1540 | 4-2220 | 0.327 | 102.2 | -1.8 | -6.73 | 1.190 | 102.4 | 0.475 | 1.792 | 320.9 | 579.7 | 0.940 | 2.644 | 4.01 | 0.597 | 64.4 | 179.0 | 7.8 | 0.278 |
| 4-1540 | 4-2240 | 0.349 | 106.8 | 1.1 | -6.29 | 1.191 | 104.2 | 0.491 | 1.804 | 315.8 | 580.9 | 0.919 | 2.689 | 3.95 | 0.604 | 62.9 | 183.5 | 7.1 | 0.299 |
| 4-1540 | 4-2260 | 0.377 | 111.4 | 3.7 | -5.85 | 1.193 | 106.2 | 0.508 | 1.817 | 310.4 | 581.9 | 0.893 | 2.740 | 3.93 | 0.610 | 61.4 | 188.2 | 6.6 | 0.321 |
| 4-1540 | 4-2280 | 0.410 | 116.1 | 6.0 | -5.41 | 1.194 | 108.5 | 0.529 | 1.830 | 304.6 | 582.5 | 0.862 | 2.797 | 3.97 | 0.616 | 59.6 | 193.4 | 6.1 | 0.345 |
| 4-1540 | 4-2300 | 0.450 | 120.7 | 7.8 | -4.94 | 1.196 | 111.1 | 0.553 | 1.843 | 298.3 | 582.7 | 0.824 | 2.862 | 4.06 | 0.621 | 57.7 | 198.8 | 5.7 | 0.372 |
| 4-1540 | 4-2320 | 0.496 | 125.4 | 9.3 | -4.45 | 1.198 | 114.0 | 0.581 | 1.857 | 291.6 | 582.5 | 0.778 | 2.935 | 4.21 | 0.625 | 55.5 | 204.5 | 5.4 | 0.402 |
| 4-1540 | 4-2340 | 0.550 | 130.0 | 10.5 | -3.91 | 1.200 | 117.3 | 0.613 | 1.871 | 284.4 | 581.8 | 0.724 | 3.018 | 4.43 | 0.628 | 53.0 | 210.6 | 5.1 | 0.436 |
| 4-1550 | 4-1690 | 0.575 | 81.8 | 14.2 | -3.42 | 1.528 | 99.3 | 1.354 | -2.794 | 343.8 | 454.0 | 0.989 | --- | -5.19 | 1.066 | 146.2 | 183.7 | -3.5 | 0.891 |
| 4-1550 | 4-1710 | 0.467 | 78.8 | 14.0 | -2.96 | 1.431 | 97.3 | 1.069 | 14.428 | 345.9 | 460.7 | 0.996 | --- | -5.37 | 0.921 | 142.6 | 185.5 | -4.0 | 0.743 |
| 4-1550 | 4-1730 | 0.389 | 74.9 | 14.0 | -2.47 | 1.362 | 95.4 | 0.877 | 8.135 | 348.4 | 467.7 | 1.002 | --- | -5.59 | 0.810 | 138.7 | 187.2 | -4.8 | 0.628 |
| 4-1550 | 4-1750 | 0.332 | 70.0 | 14.5 | -1.93 | 1.312 | 93.8 | 0.743 | 3.914 | 351.1 | 475.1 | 1.007 | --- | -5.87 | 0.725 | 134.5 | 188.7 | -5.7 | 0.535 |
| 4-1550 | 4-1770 | 0.291 | 64.6 | 15.5 | -1.33 | 1.276 | 92.3 | 0.648 | 2.865 | 354.0 | 482.5 | 1.010 | --- | -6.23 | 0.659 | 130.0 | 190.0 | -6.9 | 0.459 |
| 4-1550 | 4-1790 | 0.261 | 58.8 | 17.2 | -0.64 | 1.249 | 91.1 | 0.579 | 2.403 | 356.9 | 490.0 | 1.011 | --- | -6.68 | 0.608 | 125.3 | 191.0 | -8.4 | 0.397 |
| 4-1550 | 4-1810 | 0.242 | 52.8 | 20.0 | 0.17 | 1.230 | 90.2 | 0.530 | 2.151 | 359.6 | 497.3 | 1.012 | --- | -7.26 | 0.569 | 120.5 | 191.5 | -10.3 | 0.345 |
| 4-1550 | 4-1830 | 0.229 | 46.8 | 23.9 | 1.15 | 1.215 | 89.4 | 0.494 | 1.998 | 1.9 | 144.4 | --- | --- | -8.01 | 0.540 | 115.6 | 191.6 | -12.9 | 0.303 |
| 4-1550 | 4-1850 | 0.224 | 40.7 | 29.3 | 2.37 | 1.204 | 88.7 | 0.467 | 1.898 | 3.9 | 151.1 | --- | --- | -9.01 | 0.519 | 110.9 | 190.9 | -16.3 | 0.270 |
| 4-1550 | 4-1870 | 0.226 | 34.1 | 36.5 | 3.97 | 1.196 | 88.3 | 0.448 | 1.831 | 5.5 | 157.4 | --- | --- | -10.39 | 0.505 | 106.4 | 189.4 | -20.9 | 0.245 |
| 4-1550 | 4-1890 | 0.239 | 25.8 | 45.7 | 6.18 | 1.190 | 88.0 | 0.435 | 1.786 | 6.7 | 163.4 | --- | --- | -12.38 | 0.496 | 102.0 | 186.9 | -26.8 | 0.231 |
| 4-1550 | 4-1910 | 0.273 | 12.8 | 56.7 | 9.50 | 1.186 | 87.8 | 0.425 | 1.755 | 7.5 | 168.9 | --- | --- | -15.49 | 0.491 | 98.0 | 183.1 | -34.2 | 0.231 |
| 4-1550 | 4-1930 | 0.349 | 345.7 | 66.9 | 15.10 | 1.183 | 87.7 | 0.418 | 1.734 | 7.9 | 174.1 | --- | --- | -20.87 | 0.490 | 94.2 | 177.9 | -42.5 | 0.257 |
| 4-1550 | 4-1950 | 0.533 | 295.5 | 67.2 | 26.41 | 1.181 | 87.6 | 0.414 | 1.720 | 8.3 | 179.0 | --- | --- | -31.96 | 0.491 | 90.7 | 171.3 | -49.6 | 0.341 |
| 4-1550 | 4-1970 | 1.028 | 260.1 | 48.5 | 55.69 | 1.180 | 87.3 | 0.411 | 1.712 | 9.4 | 183.8 | --- | 2.417 | -61.02 | 0.495 | 87.3 | 165.6 | -47.5 | 0.586 |
| 4-1550 | 4-1990 | 1.220 | 178.9 | -76.9 | -67.83 | 1.180 | 89.6 | 0.408 | 1.708 | 1.3 | 186.8 | --- | 2.405 | 62.72 | 0.500 | 85.4 | 168.4 | 47.1 | 0.604 |
| 4-1550 | 4-2010 | 0.710 | 91.2 | -70.6 | -36.91 | 1.180 | 89.5 | 0.408 | 1.708 | 1.9 | 191.1 | --- | 2.405 | 32.03 | 0.507 | 82.6 | 169.4 | 50.6 | 0.345 |
| 4-1550 | 4-2030 | 0.507 | 77.2 | -59.2 | -25.08 | 1.180 | 89.8 | 0.408 | 1.710 | 0.8 | 194.9 | --- | 2.409 | 20.43 | 0.515 | 80.2 | 167.2 | 44.9 | 0.251 |
| 4-1550 | 4-2050 | 0.410 | 73.6 | -50.6 | -19.28 | 1.181 | 90.3 | 0.410 | 1.714 | 359.1 | 558.4 | 1.012 | 2.417 | 14.87 | 0.523 | 78.0 | 165.1 | 37.9 | 0.214 |
| 4-1550 | 4-2070 | 0.355 | 73.2 | -43.7 | -15.86 | 1.181 | 90.9 | 0.412 | 1.720 | 356.9 | 561.7 | 1.011 | 2.429 | 11.70 | 0.532 | 76.1 | 163.8 | 31.5 | 0.200 |
| 4-1550 | 4-2090 | 0.321 | 74.5 | -37.6 | -13.59 | 1.182 | 91.6 | 0.415 | 1.728 | 354.4 | 564.8 | 1.010 | 2.445 | 9.68 | 0.541 | 74.4 | 163.5 | 26.3 | 0.198 |
| 4-1550 | 4-2110 | 0.300 | 76.8 | -32.2 | -11.94 | 1.184 | 92.5 | 0.419 | 1.736 | 351.6 | 567.7 | 1.009 | 2.463 | 8.29 | 0.550 | 72.8 | 164.1 | 22.1 | 0.202 |
| 4-1550 | 4-2130 | 0.286 | 80.0 | -27.1 | -10.67 | 1.185 | 93.4 | 0.424 | 1.745 | 348.5 | 570.4 | 1.006 | 2.485 | 7.31 | 0.560 | 71.3 | 165.6 | 18.8 | 0.209 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1550 | 4-2150 | 0.278 | 83.8 | -22.2 | -9.65 | 1.186 | 94.5 | 0.429 | 1.755 | 345.0 | 572.8 | 1.001 | 2.509 | 6.58 | 0.569 | 70.0 | 167.8 | 16.2 | 0.219 |
| 4-1550 | 4-2170 | 0.276 | 88.2 | -17.5 | -8.79 | 1.188 | 95.7 | 0.436 | 1.766 | 341.3 | 575.1 | 0.996 | 2.536 | 6.04 | 0.577 | 68.7 | 170.5 | 14.1 | 0.232 |
| 4-1550 | 4-2190 | 0.278 | 93.0 | -13.0 | -8.04 | 1.189 | 97.0 | 0.444 | 1.777 | 337.2 | 577.2 | 0.987 | 2.567 | 5.63 | 0.586 | 67.4 | 173.8 | 12.5 | 0.245 |
| 4-1550 | 4-2210 | 0.285 | 98.0 | -8.8 | -7.38 | 1.191 | 98.4 | 0.454 | 1.789 | 332.9 | 579.0 | 0.977 | 2.601 | 5.33 | 0.594 | 66.2 | 177.5 | 11.1 | 0.261 |
| 4-1550 | 4-2230 | 0.298 | 103.3 | -4.9 | -6.76 | 1.192 | 100.0 | 0.465 | 1.801 | 328.2 | 580.6 | 0.963 | 2.639 | 5.11 | 0.601 | 64.9 | 181.6 | 10.1 | 0.278 |
| 4-1550 | 4-2250 | 0.315 | 108.6 | -1.4 | -6.19 | 1.194 | 101.7 | 0.478 | 1.814 | 323.1 | 581.9 | 0.946 | 2.681 | 4.97 | 0.608 | 63.6 | 186.1 | 9.2 | 0.296 |
| 4-1550 | 4-2270 | 0.338 | 114.0 | 1.6 | -5.63 | 1.196 | 103.7 | 0.494 | 1.826 | 317.8 | 582.9 | 0.925 | 2.728 | 4.89 | 0.614 | 62.2 | 190.9 | 8.4 | 0.316 |
| 4-1550 | 4-2290 | 0.367 | 119.3 | 4.2 | -5.08 | 1.197 | 105.8 | 0.512 | 1.840 | 312.0 | 583.6 | 0.898 | 2.781 | 4.87 | 0.619 | 60.7 | 196.0 | 7.8 | 0.338 |
| 4-1550 | 4-2310 | 0.402 | 124.6 | 6.4 | -4.53 | 1.199 | 108.2 | 0.533 | 1.853 | 305.9 | 583.9 | 0.866 | 2.840 | 4.92 | 0.624 | 59.1 | 201.4 | 7.3 | 0.362 |
| 4-1550 | 4-2330 | 0.443 | 129.7 | 8.1 | -3.95 | 1.201 | 110.9 | 0.557 | 1.867 | 299.3 | 583.9 | 0.827 | 2.907 | 5.03 | 0.628 | 57.2 | 207.1 | 6.8 | 0.389 |
| 4-1550 | 4-2350 | 0.492 | 134.7 | 9.3 | -3.34 | 1.202 | 113.9 | 0.585 | 1.881 | 292.3 | 583.4 | 0.780 | 2.983 | 5.22 | 0.631 | 55.0 | 213.0 | 6.4 | 0.418 |
| 4-1560 | 4-1700 | 0.520 | 78.1 | 14.2 | -3.02 | 1.501 | 94.4 | 1.271 | -3.700 | 352.2 | 455.1 | 1.004 | --- | -5.82 | 1.024 | 145.0 | 185.5 | -4.0 | 0.847 |
| 4-1560 | 4-1720 | 0.424 | 73.7 | 14.1 | -2.54 | 1.410 | 92.6 | 1.006 | 76.955 | 354.8 | 462.2 | 1.007 | --- | -5.95 | 0.886 | 141.3 | 187.2 | -4.7 | 0.706 |
| 4-1560 | 4-1740 | 0.357 | 68.1 | 14.2 | -2.03 | 1.346 | 91.0 | 0.828 | 5.862 | 357.8 | 469.8 | 1.009 | --- | -6.12 | 0.781 | 137.3 | 188.6 | -5.4 | 0.596 |
| 4-1560 | 4-1760 | 0.311 | 61.9 | 14.6 | -1.48 | 1.300 | 89.6 | 0.705 | 3.425 | 1.0 | 117.6 | --- | --- | -6.35 | 0.700 | 132.9 | 189.9 | -6.4 | 0.507 |
| 4-1560 | 4-1780 | 0.280 | 55.4 | 15.6 | -0.88 | 1.266 | 88.4 | 0.619 | 2.649 | 4.3 | 125.5 | --- | --- | -6.64 | 0.638 | 128.2 | 190.9 | -7.6 | 0.435 |
| 4-1560 | 4-1800 | 0.260 | 49.0 | 17.1 | -0.22 | 1.242 | 87.3 | 0.558 | 2.280 | 7.4 | 133.2 | --- | --- | -7.00 | 0.591 | 123.4 | 191.6 | -9.2 | 0.376 |
| 4-1560 | 4-1820 | 0.248 | 43.0 | 19.2 | 0.53 | 1.224 | 86.5 | 0.515 | 2.071 | 10.2 | 140.7 | --- | --- | -7.47 | 0.555 | 118.5 | 191.8 | -11.2 | 0.327 |
| 4-1560 | 4-1840 | 0.241 | 37.4 | 22.2 | 1.41 | 1.211 | 85.9 | 0.484 | 1.941 | 12.6 | 147.8 | --- | --- | -8.06 | 0.529 | 113.6 | 191.4 | -13.7 | 0.288 |
| 4-1560 | 4-1860 | 0.239 | 32.3 | 26.2 | 2.45 | 1.201 | 85.4 | 0.462 | 1.857 | 14.5 | 154.4 | --- | --- | -8.83 | 0.510 | 108.9 | 190.3 | -16.8 | 0.256 |
| 4-1560 | 4-1880 | 0.241 | 27.1 | 31.3 | 3.73 | 1.194 | 85.1 | 0.446 | 1.800 | 16.0 | 160.6 | --- | --- | -9.84 | 0.498 | 104.3 | 188.5 | -20.8 | 0.232 |
| 4-1560 | 4-1900 | 0.249 | 21.6 | 37.7 | 5.38 | 1.189 | 84.9 | 0.435 | 1.762 | 16.9 | 166.4 | --- | --- | -11.23 | 0.491 | 100.1 | 185.7 | -25.6 | 0.217 |
| 4-1560 | 4-1920 | 0.267 | 14.4 | 45.5 | 7.60 | 1.185 | 84.8 | 0.427 | 1.736 | 17.4 | 171.7 | --- | --- | -13.19 | 0.488 | 96.1 | 182.1 | -31.4 | 0.212 |
| 4-1560 | 4-1940 | 0.302 | 3.2 | 54.4 | 10.83 | 1.183 | 84.8 | 0.421 | 1.720 | 17.5 | 176.7 | --- | --- | -16.17 | 0.488 | 92.4 | 177.8 | -37.8 | 0.221 |
| 4-1560 | 4-1960 | 0.373 | 342.3 | 62.6 | 16.00 | 1.182 | 84.9 | 0.417 | 1.709 | 17.3 | 181.3 | --- | 2.423 | -21.07 | 0.491 | 89.1 | 173.2 | -44.4 | 0.252 |
| 4-1560 | 4-1980 | 0.525 | 306.2 | 64.4 | 25.56 | 1.181 | 85.0 | 0.415 | 1.704 | 17.0 | 185.7 | --- | 2.412 | -30.38 | 0.495 | 86.0 | 169.3 | -49.7 | 0.327 |
| 4-1560 | 4-2000 | 0.891 | 273.5 | 52.1 | 47.19 | 1.181 | 85.0 | 0.415 | 1.703 | 17.2 | 189.9 | --- | 2.409 | -51.74 | 0.502 | 83.1 | 168.3 | -49.5 | 0.514 |
| 4-1560 | 4-2040 | 0.871 | 93.9 | -78.6 | -46.16 | 1.181 | 87.7 | 0.411 | 1.708 | 7.8 | 196.3 | --- | 2.410 | 42.15 | 0.517 | 79.2 | 171.7 | 50.8 | 0.441 |
| 4-1560 | 4-2060 | 0.587 | 75.3 | -64.5 | -29.58 | 1.182 | 88.1 | 0.412 | 1.714 | 6.7 | 199.8 | --- | 2.421 | 25.84 | 0.526 | 77.2 | 168.4 | 47.4 | 0.304 |
| 4-1560 | 4-2080 | 0.454 | 72.2 | -54.5 | -21.77 | 1.183 | 88.6 | 0.414 | 1.721 | 4.7 | 203.0 | --- | 2.434 | 18.31 | 0.536 | 75.3 | 166.3 | 40.7 | 0.250 |
| 4-1560 | 4-2100 | 0.380 | 72.4 | -46.6 | -17.32 | 1.185 | 89.4 | 0.416 | 1.730 | 2.1 | 206.0 | --- | 2.450 | 14.16 | 0.545 | 73.7 | 165.7 | 34.1 | 0.228 |
| 4-1560 | 4-2120 | 0.335 | 74.2 | -39.8 | -14.43 | 1.186 | 90.2 | 0.420 | 1.739 | 359.3 | 568.8 | 1.009 | 2.469 | 11.57 | 0.555 | 72.3 | 166.3 | 28.5 | 0.222 |
| 4-1560 | 4-2140 | 0.306 | 77.2 | -33.8 | -12.38 | 1.187 | 91.2 | 0.423 | 1.749 | 356.1 | 571.4 | 1.009 | 2.490 | 9.84 | 0.564 | 70.9 | 167.8 | 24.0 | 0.224 |
| 4-1560 | 4-2160 | 0.286 | 81.2 | -28.1 | -10.82 | 1.189 | 92.2 | 0.428 | 1.760 | 352.5 | 573.8 | 1.007 | 2.514 | 8.62 | 0.573 | 69.7 | 170.0 | 20.4 | 0.231 |
| 4-1560 | 4-2180 | 0.274 | 85.9 | -22.8 | -9.58 | 1.190 | 93.4 | 0.434 | 1.772 | 348.7 | 576.1 | 1.004 | 2.540 | 7.73 | 0.582 | 68.5 | 172.9 | 17.7 | 0.240 |
| 4-1560 | 4-2200 | 0.269 | 91.2 | -17.7 | -8.55 | 1.192 | 94.7 | 0.440 | 1.784 | 344.6 | 578.1 | 0.998 | 2.569 | 7.07 | 0.590 | 67.4 | 176.3 | 15.5 | 0.252 |
| 4-1560 | 4-2220 | 0.269 | 97.0 | -12.8 | -7.66 | 1.194 | 96.1 | 0.448 | 1.796 | 340.2 | 579.9 | 0.991 | 2.602 | 6.58 | 0.598 | 66.3 | 180.1 | 13.7 | 0.265 |
| 4-1560 | 4-2240 | 0.275 | 103.0 | -8.2 | -6.86 | 1.195 | 97.6 | 0.458 | 1.809 | 335.5 | 581.5 | 0.981 | 2.637 | 6.21 | 0.605 | 65.2 | 184.3 | 12.3 | 0.280 |
| 4-1560 | 4-2260 | 0.287 | 109.3 | -4.1 | -6.14 | 1.197 | 99.3 | 0.469 | 1.822 | 330.4 | 582.8 | 0.968 | 2.677 | 5.96 | 0.611 | 64.1 | 188.8 | 11.1 | 0.296 |
| 4-1560 | 4-2280 | 0.305 | 115.6 | -0.5 | -5.46 | 1.199 | 101.2 | 0.482 | 1.836 | 325.1 | 583.8 | 0.950 | 2.721 | 5.79 | 0.617 | 62.9 | 193.6 | 10.2 | 0.314 |
| 4-1560 | 4-2300 | 0.329 | 121.8 | 2.5 | -4.80 | 1.200 | 103.2 | 0.498 | 1.849 | 319.4 | 584.6 | 0.929 | 2.770 | 5.69 | 0.622 | 61.6 | 198.7 | 9.4 | 0.334 |
| 4-1560 | 4-2320 | 0.359 | 127.8 | 4.9 | -4.16 | 1.202 | 105.5 | 0.516 | 1.863 | 313.3 | 585.0 | 0.902 | 2.825 | 5.68 | 0.627 | 60.1 | 204.1 | 8.7 | 0.355 |
| 4-1560 | 4-2340 | 0.395 | 133.6 | 6.8 | -3.51 | 1.204 | 108.0 | 0.537 | 1.878 | 306.9 | 585.1 | 0.869 | 2.887 | 5.73 | 0.630 | 58.5 | 209.7 | 8.1 | 0.379 |
| 4-1560 | 4-2360 | 0.439 | 139.1 | 8.2 | -2.84 | 1.205 | 110.8 | 0.562 | 1.892 | 300.1 | 584.8 | 0.829 | 2.956 | 5.87 | 0.633 | 56.6 | 215.5 | 7.7 | 0.405 |
| 4-1570 | 4-1690 | 0.605 | 76.6 | 14.4 | -3.20 | 1.594 | 90.6 | 1.557 | -1.808 | 359.0 | 449.9 | 1.007 | --- | -6.32 | 1.154 | 147.3 | 185.5 | -4.0 | 0.977 |
| 4-1570 | 4-1710 | 0.483 | 71.8 | 14.1 | -2.70 | 1.471 | 89.1 | 1.179 | -5.632 | 1.6 | 97.1 | --- | --- | -6.35 | 0.978 | 143.9 | 186.9 | -4.6 | 0.801 |
| 4-1570 | 4-1730 | 0.402 | 65.8 | 13.9 | -2.19 | 1.387 | 87.7 | 0.938 | 16.099 | 4.8 | 104.9 | --- | --- | -6.42 | 0.847 | 140.0 | 188.3 | -5.2 | 0.668 |
| 4-1570 | 4-1750 | 0.349 | 59.1 | 14.0 | -1.66 | 1.328 | 86.3 | 0.778 | 4.505 | 8.4 | 113.0 | --- | --- | -6.53 | 0.748 | 135.8 | 189.5 | -6.1 | 0.563 |
| 4-1570 | 4-1770 | 0.315 | 52.2 | 14.3 | -1.10 | 1.286 | 85.1 | 0.669 | 3.014 | 12.1 | 121.3 | --- | --- | -6.69 | 0.672 | 131.2 | 190.5 | -7.1 | 0.479 |
| 4-1570 | 4-1790 | 0.294 | 45.8 | 15.0 | -0.51 | 1.256 | 84.2 | 0.594 | 2.446 | 15.7 | 129.5 | --- | --- | -6.91 | 0.614 | 126.4 | 191.2 | -8.3 | 0.410 |
| 4-1570 | 4-1810 | 0.281 | 39.9 | 16.2 | 0.13 | 1.234 | 83.3 | 0.542 | 2.157 | 19.0 | 137.4 | --- | --- | -7.19 | 0.570 | 121.4 | 191.5 | -9.9 | 0.355 |
| 4-1570 | 4-1830 | 0.274 | 34.9 | 17.8 | 0.83 | 1.218 | 82.7 | 0.506 | 1.988 | 21.8 | 144.9 | --- | --- | -7.55 | 0.538 | 116.4 | 191.2 | -11.8 | 0.309 |
| 4-1570 | 4-1850 | 0.271 | 30.5 | 20.1 | 1.63 | 1.206 | 82.3 | 0.480 | 1.882 | 24.0 | 151.9 | --- | --- | -8.01 | 0.515 | 111.4 | 190.3 | -14.2 | 0.272 |
| 4-1570 | 4-1870 | 0.270 | 26.7 | 23.0 | 2.54 | 1.198 | 81.9 | 0.462 | 1.812 | 25.7 | 158.3 | --- | --- | -8.60 | 0.499 | 106.6 | 188.8 | -17.1 | 0.243 |
| 4-1570 | 4-1890 | 0.272 | 23.2 | 26.8 | 3.61 | 1.192 | 81.8 | 0.449 | 1.766 | 26.9 | 164.3 | --- | --- | -9.36 | 0.489 | 102.1 | 186.4 | -20.6 | 0.221 |
| 4-1570 | 4-1910 | 0.277 | 19.6 | 31.4 | 4.92 | 1.187 | 81.7 | 0.440 | 1.735 | 27.5 | 169.7 | --- | --- | -10.36 | 0.484 | 97.9 | 183.3 | -24.7 | 0.206 |
| 4-1570 | 4-1930 | 0.286 | 15.5 | 37.2 | 6.57 | 1.184 | 81.8 | 0.433 | 1.715 | 27.6 | 174.8 | --- | --- | -11.71 | 0.483 | 94.0 | 179.6 | -29.3 | 0.200 |
| 4-1570 | 4-1950 | 0.303 | 9.9 | 44.0 | 8.77 | 1.183 | 81.9 | 0.428 | 1.702 | 27.3 | 179.4 | --- | --- | -13.61 | 0.485 | 90.4 | 175.5 | -34.2 | 0.203 |
| 4-1570 | 4-1970 | 0.336 | 0.9 | 51.8 | 11.87 | 1.182 | 82.1 | 0.425 | 1.696 | 26.7 | 183.8 | --- | 2.417 | -16.42 | 0.489 | 87.2 | 171.6 | -39.3 | 0.218 |
| 4-1570 | 4-1990 | 0.398 | 344.5 | 59.2 | 16.65 | 1.181 | 82.4 | 0.423 | 1.694 | 25.8 | 187.9 | --- | 2.410 | -20.90 | 0.495 | 84.3 | 168.5 | -44.4 | 0.251 |
| 4-1570 | 4-2010 | 0.527 | 316.2 | 62.2 | 25.00 | 1.182 | 82.7 | 0.422 | 1.695 | 24.9 | 191.7 | --- | 2.410 | -28.95 | 0.502 | 81.7 | 167.4 | -48.8 | 0.320 |
| 4-1570 | 4-2030 | 0.815 | 285.7 | 54.1 | 42.28 | 1.182 | 82.9 | 0.423 | 1.699 | 24.3 | 195.4 | --- | 2.416 | -45.93 | 0.511 | 79.2 | 169.8 | -49.9 | 0.471 |
| 4-1570 | 4-2070 | 1.027 | 77.5 | -85.4 | -55.30 | 1.184 | 86.2 | 0.416 | 1.712 | 13.0 | 201.0 | --- | 2.424 | 52.26 | 0.529 | 76.3 | 176.9 | 49.0 | 0.539 |
| 4-1570 | 4-2090 | 0.664 | 70.5 | -68.0 | -33.78 | 1.185 | 86.5 | 0.418 | 1.721 | 11.9 | 204.2 | --- | 2.440 | 31.06 | 0.539 | 74.5 | 172.1 | 48.3 | 0.359 |
| 4-1570 | 4-2110 | 0.493 | 70.0 | -56.4 | -23.85 | 1.187 | 87.1 | 0.420 | 1.730 | 9.7 | 207.2 | --- | 2.458 | 21.45 | 0.549 | 72.9 | 169.5 | 42.0 | 0.287 |
| 4-1570 | 4-2130 | 0.402 | 71.4 | -47.6 | -18.37 | 1.188 | 88.0 | 0.423 | 1.741 | 6.8 | 209.9 | --- | 2.477 | 16.31 | 0.558 | 71.6 | 169.2 | 35.3 | 0.257 |
| 4-1570 | 4-2150 | 0.346 | 74.1 | -40.3 | -14.90 | 1.190 | 88.9 | 0.426 | 1.752 | 3.6 | 212.4 | --- | 2.499 | 13.19 | 0.568 | 70.4 | 170.4 | 29.5 | 0.247 |
| 4-1570 | 4-2170 | 0.309 | 77.9 | -33.7 | -12.48 | 1.191 | 90.0 | 0.429 | 1.764 | 360.0 | 574.8 | 1.007 | 2.522 | 11.13 | 0.577 | 69.3 | 172.5 | 24.9 | 0.247 |
| 4-1570 | 4-2190 | 0.285 | 82.7 | -27.7 | -10.67 | 1.193 | 91.2 | 0.434 | 1.777 | 356.1 | 577.0 | 1.006 | 2.548 | 9.69 | 0.586 | 68.2 | 175.4 | 21.3 | 0.252 |
| 4-1570 | 4-2210 | 0.269 | 88.3 | -22.0 | -9.24 | 1.195 | 92.5 | 0.439 | 1.790 | 351.9 | 578.9 | 1.004 | 2.576 | 8.66 | 0.594 | 67.3 | 178.8 | 18.4 | 0.261 |
| 4-1570 | 4-2230 | 0.261 | 94.6 | -16.6 | -8.06 | 1.196 | 93.9 | 0.446 | 1.803 | 347.5 | 580.7 | 1.000 | 2.606 | 7.90 | 0.602 | 66.3 | 182.7 | 16.2 | 0.272 |
| 4-1570 | 4-2250 | 0.259 | 101.5 | -11.4 | -7.04 | 1.198 | 95.4 | 0.453 | 1.817 | 342.7 | 582.3 | 0.993 | 2.640 | 7.34 | 0.609 | 65.3 | 186.9 | 14.4 | 0.284 |
| 4-1570 | 4-2270 | 0.265 | 108.7 | -6.7 | -6.15 | 1.200 | 97.0 | 0.463 | 1.830 | 337.7 | 583.6 | 0.983 | 2.678 | 6.93 | 0.615 | 64.4 | 191.5 | 12.9 | 0.299 |
| 4-1570 | 4-2290 | 0.277 | 116.0 | -2.6 | -5.33 | 1.202 | 98.8 | 0.474 | 1.844 | 332.3 | 584.7 | 0.970 | 2.719 | 6.64 | 0.620 | 63.3 | 196.3 | 11.7 | 0.315 |
| 4-1570 | 4-2310 | 0.296 | 123.2 | 0.9 | -4.57 | 1.203 | 100.8 | 0.487 | 1.859 | 326.7 | 585.4 | 0.953 | 2.765 | 6.45 | 0.625 | 62.2 | 201.4 | 10.8 | 0.332 |
| 4-1570 | 4-2330 | 0.321 | 130.2 | 3.7 | -3.84 | 1.205 | 102.9 | 0.503 | 1.873 | 320.7 | 585.9 | 0.931 | 2.816 | 6.34 | 0.629 | 60.9 | 206.8 | 10.0 | 0.351 |
| 4-1570 | 4-2350 | 0.353 | 136.8 | 5.7 | -3.12 | 1.207 | 105.3 | 0.521 | 1.888 | 314.4 | 586.1 | 0.903 | 2.872 | 6.32 | 0.632 | 59.5 | 212.3 | 9.3 | 0.372 |
| 4-1570 | 4-2370 | 0.391 | 143.0 | 7.2 | -2.39 | 1.209 | 107.9 | 0.543 | 1.903 | 307.8 | 586.0 | 0.870 | 2.936 | 6.39 | 0.634 | 57.9 | 218.1 | 8.7 | 0.395 |
| 4-1580 | 4-1700 | 0.577 | 69.8 | 14.1 | -2.97 | 1.552 | 84.7 | 1.417 | -2.388 | 9.0 | 92.5 | --- | --- | -6.83 | 1.094 | 146.5 | 186.6 | -4.5 | 0.921 |
| 4-1580 | 4-1720 | 0.473 | 63.6 | 13.8 | -2.42 | 1.440 | 83.5 | 1.081 | 12.266 | 12.4 | 100.4 | --- | --- | -6.79 | 0.928 | 142.9 | 187.8 | -5.0 | 0.755 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1580 | 4-1740 | 0.408 | 56.7 | 13.5 | -1.88 | 1.363 | 82.4 | 0.869 | 7.502 | 16.3 | 108.9 | --- | --- | -6.80 | 0.804 | 138.8 | 188.9 | -5.7 | 0.628 |
| 4-1580 | 4-1760 | 0.368 | 49.9 | 13.5 | -1.33 | 1.310 | 81.4 | 0.730 | 3.619 | 20.5 | 117.6 | --- | --- | -6.84 | 0.711 | 134.4 | 189.8 | -6.6 | 0.529 |
| 4-1580 | 4-1780 | 0.344 | 43.6 | 13.7 | -0.77 | 1.272 | 80.5 | 0.637 | 2.673 | 24.6 | 126.3 | --- | --- | -6.94 | 0.641 | 129.5 | 190.4 | -7.6 | 0.450 |
| 4-1580 | 4-1800 | 0.330 | 38.2 | 14.3 | -0.18 | 1.245 | 79.7 | 0.575 | 2.260 | 28.3 | 134.7 | --- | --- | -7.08 | 0.587 | 124.5 | 190.6 | -8.9 | 0.386 |
| 4-1580 | 4-1820 | 0.322 | 33.7 | 15.2 | 0.44 | 1.225 | 79.2 | 0.532 | 2.037 | 31.5 | 142.6 | --- | --- | -7.28 | 0.548 | 119.3 | 190.4 | -10.5 | 0.333 |
| 4-1580 | 4-1840 | 0.318 | 30.0 | 16.6 | 1.10 | 1.211 | 78.7 | 0.503 | 1.904 | 34.1 | 149.9 | --- | --- | -7.54 | 0.519 | 114.1 | 189.6 | -12.3 | 0.291 |
| 4-1580 | 4-1860 | 0.316 | 26.9 | 18.4 | 1.83 | 1.201 | 78.5 | 0.482 | 1.820 | 36.1 | 156.5 | --- | --- | -7.88 | 0.499 | 109.0 | 188.2 | -14.6 | 0.257 |
| 4-1580 | 4-1880 | 0.315 | 24.4 | 20.7 | 2.64 | 1.194 | 78.3 | 0.468 | 1.764 | 37.3 | 162.6 | --- | --- | -8.32 | 0.486 | 104.2 | 186.1 | -17.2 | 0.230 |
| 4-1580 | 4-1900 | 0.315 | 22.2 | 23.6 | 3.57 | 1.189 | 78.3 | 0.458 | 1.728 | 38.1 | 168.1 | --- | --- | -8.89 | 0.479 | 99.7 | 183.2 | -20.2 | 0.211 |
| 4-1580 | 4-1920 | 0.316 | 20.0 | 27.1 | 4.65 | 1.185 | 78.4 | 0.450 | 1.705 | 38.2 | 173.2 | --- | --- | -9.62 | 0.477 | 95.5 | 179.7 | -23.6 | 0.198 |
| 4-1580 | 4-1940 | 0.320 | 17.6 | 31.5 | 5.95 | 1.183 | 78.6 | 0.445 | 1.690 | 38.0 | 177.9 | --- | --- | -10.59 | 0.477 | 91.7 | 175.9 | -27.1 | 0.192 |
| 4-1580 | 4-1960 | 0.327 | 14.6 | 36.7 | 7.59 | 1.182 | 78.8 | 0.440 | 1.683 | 37.3 | 182.2 | --- | 2.424 | -11.88 | 0.481 | 88.2 | 172.0 | -30.8 | 0.193 |
| 4-1580 | 4-1980 | 0.342 | 10.2 | 42.9 | 9.72 | 1.182 | 79.2 | 0.437 | 1.680 | 36.3 | 186.3 | --- | 2.415 | -13.68 | 0.487 | 85.2 | 168.6 | -34.6 | 0.202 |
| 4-1580 | 4-2000 | 0.370 | 3.0 | 49.9 | 12.67 | 1.182 | 79.6 | 0.435 | 1.681 | 35.0 | 190.1 | --- | 2.412 | -16.31 | 0.494 | 82.4 | 166.1 | -38.6 | 0.220 |
| 4-1580 | 4-2020 | 0.424 | 349.7 | 57.0 | 17.10 | 1.182 | 80.0 | 0.434 | 1.685 | 33.5 | 193.6 | --- | 2.415 | -20.41 | 0.502 | 80.0 | 165.0 | -42.8 | 0.254 |
| 4-1580 | 4-2040 | 0.533 | 326.2 | 60.9 | 24.53 | 1.183 | 80.5 | 0.433 | 1.691 | 31.9 | 197.0 | --- | 2.423 | -27.50 | 0.512 | 77.8 | 166.2 | -47.0 | 0.316 |
| 4-1580 | 4-2060 | 0.769 | 297.2 | 55.8 | 39.04 | 1.184 | 80.9 | 0.434 | 1.699 | 30.6 | 200.3 | --- | 2.435 | -41.69 | 0.521 | 75.8 | 171.1 | -49.2 | 0.444 |
| 4-1580 | 4-2100 | 1.166 | 350.1 | -85.3 | -63.64 | 1.187 | 84.8 | 0.424 | 1.718 | 17.6 | 205.3 | --- | 2.446 | 61.68 | 0.541 | 73.7 | 183.7 | 46.5 | 0.631 |
| 4-1580 | 4-2120 | 0.731 | 63.4 | -69.5 | -37.41 | 1.189 | 85.1 | 0.427 | 1.730 | 16.6 | 208.3 | --- | 2.467 | 35.79 | 0.552 | 72.1 | 177.4 | 48.1 | 0.412 |
| 4-1580 | 4-2140 | 0.525 | 68.0 | -56.7 | -25.38 | 1.191 | 85.8 | 0.429 | 1.742 | 14.1 | 210.9 | --- | 2.488 | 24.11 | 0.562 | 70.8 | 174.1 | 42.3 | 0.322 |
| 4-1580 | 4-2160 | 0.416 | 71.0 | -47.1 | -18.94 | 1.192 | 86.7 | 0.431 | 1.754 | 10.9 | 213.4 | --- | 2.510 | 18.04 | 0.571 | 69.7 | 173.9 | 35.6 | 0.285 |
| 4-1580 | 4-2180 | 0.351 | 74.7 | -39.1 | -14.96 | 1.194 | 87.8 | 0.433 | 1.767 | 7.4 | 215.7 | --- | 2.533 | 14.44 | 0.581 | 68.7 | 175.5 | 29.7 | 0.272 |
| 4-1580 | 4-2200 | 0.309 | 79.3 | -32.2 | -12.23 | 1.196 | 89.0 | 0.436 | 1.781 | 3.4 | 217.8 | --- | 2.558 | 12.10 | 0.589 | 67.8 | 178.2 | 25.1 | 0.270 |
| 4-1580 | 4-2220 | 0.281 | 84.9 | -25.8 | -10.21 | 1.198 | 90.2 | 0.440 | 1.795 | 359.2 | 579.7 | 1.004 | 2.585 | 10.49 | 0.597 | 66.9 | 181.5 | 21.5 | 0.274 |
| 4-1580 | 4-2240 | 0.262 | 91.5 | -19.9 | -8.62 | 1.199 | 91.6 | 0.446 | 1.809 | 354.7 | 581.4 | 1.003 | 2.615 | 9.35 | 0.605 | 66.1 | 185.4 | 18.6 | 0.281 |
| 4-1580 | 4-2260 | 0.252 | 98.8 | -14.3 | -7.33 | 1.201 | 93.1 | 0.452 | 1.823 | 349.9 | 583.0 | 1.000 | 2.647 | 8.51 | 0.612 | 65.3 | 189.6 | 16.4 | 0.291 |
| 4-1580 | 4-2280 | 0.250 | 106.8 | -9.0 | -6.22 | 1.203 | 94.7 | 0.459 | 1.838 | 344.9 | 584.3 | 0.993 | 2.682 | 7.89 | 0.618 | 64.4 | 194.2 | 14.6 | 0.304 |
| 4-1580 | 4-2300 | 0.255 | 115.1 | -4.4 | -5.25 | 1.205 | 96.5 | 0.469 | 1.853 | 339.5 | 585.4 | 0.984 | 2.721 | 7.45 | 0.623 | 63.5 | 199.1 | 13.2 | 0.317 |
| 4-1580 | 4-2320 | 0.268 | 123.5 | -0.5 | -4.37 | 1.207 | 98.4 | 0.480 | 1.868 | 333.9 | 586.2 | 0.971 | 2.764 | 7.13 | 0.627 | 62.6 | 204.2 | 12.0 | 0.332 |
| 4-1580 | 4-2340 | 0.288 | 131.6 | 2.6 | -3.54 | 1.208 | 100.4 | 0.493 | 1.883 | 328.0 | 586.7 | 0.954 | 2.811 | 6.92 | 0.631 | 61.5 | 209.5 | 11.0 | 0.349 |
| 4-1580 | 4-2360 | 0.315 | 139.3 | 4.9 | -2.76 | 1.210 | 102.7 | 0.509 | 1.898 | 321.8 | 587.0 | 0.932 | 2.864 | 6.81 | 0.634 | 60.3 | 215.0 | 10.2 | 0.367 |
| 4-1580 | 4-2380 | 0.349 | 146.3 | 6.4 | -1.99 | 1.212 | 105.1 | 0.528 | 1.913 | 315.3 | 587.0 | 0.904 | 2.922 | 6.79 | 0.636 | 58.9 | 220.8 | 9.6 | 0.387 |
| 4-1590 | 4-1710 | 0.580 | 62.0 | 13.7 | -2.77 | 1.510 | 78.5 | 1.274 | -3.525 | 20.6 | 96.5 | --- | --- | -7.28 | 1.031 | 146.0 | 187.0 | -4.8 | 0.866 |
| 4-1590 | 4-1730 | 0.495 | 55.3 | 13.4 | -2.18 | 1.408 | 77.7 | 0.98564 | .019 | 24.8 | 105.3 | --- | --- | -7.16 | 0.874 | 142.1 | 188.0 | -5.4 | 0.709 |
| 4-1590 | 4-1750 | 0.443 | 48.7 | 13.1 | -1.61 | 1.338 | 76.9 | 0.805 | 4.846 | 29.5 | 114.5 | --- | --- | -7.09 | 0.758 | 137.7 | 188.7 | -6.1 | 0.590 |
| 4-1590 | 4-1770 | 0.413 | 42.8 | 13.1 | -1.04 | 1.290 | 76.2 | 0.690 | 3.007 | 34.1 | 123.7 | --- | --- | -7.06 | 0.671 | 133.0 | 189.2 | -7.0 | 0.496 |
| 4-1590 | 4-1790 | 0.396 | 37.8 | 13.4 | -0.47 | 1.256 | 75.6 | 0.615 | 2.389 | 38.4 | 132.6 | --- | --- | -7.08 | 0.606 | 127.8 | 189.4 | -8.0 | 0.422 |
| 4-1590 | 4-1810 | 0.385 | 33.8 | 14.0 | 0.12 | 1.233 | 75.1 | 0.566 | 2.092 | 42.0 | 140.9 | --- | --- | -7.15 | 0.558 | 122.5 | 189.1 | -9.3 | 0.362 |
| 4-1590 | 4-1830 | 0.379 | 30.7 | 14.8 | 0.72 | 1.216 | 74.8 | 0.532 | 1.924 | 44.9 | 148.4 | --- | --- | -7.27 | 0.522 | 117.0 | 188.3 | -10.8 | 0.314 |
| 4-1590 | 4-1850 | 0.375 | 28.2 | 16.0 | 1.35 | 1.203 | 74.6 | 0.509 | 1.822 | 47.0 | 155.3 | --- | --- | -7.44 | 0.498 | 111.6 | 186.9 | -12.6 | 0.275 |
| 4-1590 | 4-1870 | 0.372 | 26.2 | 17.6 | 2.03 | 1.195 | 74.5 | 0.493 | 1.757 | 48.4 | 161.4 | --- | --- | -7.68 | 0.481 | 106.4 | 184.8 | -14.6 | 0.244 |
| 4-1590 | 4-1890 | 0.369 | 24.6 | 19.5 | 2.76 | 1.189 | 74.5 | 0.482 | 1.715 | 49.1 | 167.0 | --- | --- | -8.00 | 0.472 | 101.5 | 182.1 | -16.9 | 0.221 |
| 4-1590 | 4-1910 | 0.367 | 23.3 | 21.8 | 3.58 | 1.185 | 74.7 | 0.473 | 1.688 | 49.3 | 172.1 | --- | --- | -8.41 | 0.468 | 97.0 | 178.8 | -19.4 | 0.204 |
| 4-1590 | 4-1930 | 0.365 | 22.1 | 24.6 | 4.50 | 1.183 | 74.9 | 0.467 | 1.672 | 49.0 | 176.7 | --- | --- | -8.94 | 0.468 | 92.9 | 175.1 | -22.0 | 0.194 |
| 4-1590 | 4-1950 | 0.364 | 20.8 | 27.9 | 5.57 | 1.182 | 75.2 | 0.462 | 1.664 | 48.3 | 181.0 | --- | 2.432 | -9.63 | 0.471 | 89.2 | 171.4 | -24.6 | 0.189 |
| 4-1590 | 4-1970 | 0.365 | 19.3 | 31.9 | 6.85 | 1.181 | 75.6 | 0.458 | 1.661 | 47.2 | 184.9 | --- | 2.420 | -10.54 | 0.476 | 85.9 | 167.9 | -27.2 | 0.190 |
| 4-1590 | 4-1990 | 0.370 | 17.1 | 36.7 | 8.43 | 1.181 | 76.1 | 0.454 | 1.662 | 45.8 | 188.7 | --- | 2.416 | -11.76 | 0.483 | 82.9 | 165.1 | -29.9 | 0.196 |
| 4-1590 | 4-2010 | 0.381 | 13.7 | 42.4 | 10.47 | 1.182 | 76.7 | 0.451 | 1.666 | 44.1 | 192.2 | --- | 2.418 | -13.44 | 0.492 | 80.3 | 163.2 | -32.8 | 0.208 |
| 4-1590 | 4-2030 | 0.403 | 7.8 | 49.0 | 13.26 | 1.183 | 77.2 | 0.449 | 1.672 | 42.2 | 195.5 | --- | 2.424 | -15.88 | 0.502 | 78.1 | 162.5 | -36.1 | 0.228 |
| 4-1590 | 4-2050 | 0.448 | 356.9 | 55.8 | 17.36 | 1.184 | 77.9 | 0.447 | 1.681 | 40.1 | 198.6 | --- | 2.433 | -19.63 | 0.512 | 76.1 | 163.3 | -40.0 | 0.260 |
| 4-1590 | 4-2070 | 0.540 | 336.6 | 60.5 | 24.05 | 1.186 | 78.5 | 0.446 | 1.691 | 37.9 | 201.6 | --- | 2.446 | -25.96 | 0.522 | 74.3 | 166.1 | -44.3 | 0.315 |
| 4-1590 | 4-2090 | 0.739 | 308.6 | 57.6 | 36.63 | 1.187 | 79.1 | 0.446 | 1.702 | 36.0 | 204.5 | --- | 2.462 | -38.18 | 0.533 | 72.7 | 172.7 | -47.7 | 0.425 |
| 4-1590 | 4-2150 | 0.785 | 56.3 | -69.0 | -40.25 | 1.193 | 83.7 | 0.436 | 1.741 | 20.7 | 211.8 | --- | 2.500 | 39.78 | 0.564 | 69.9 | 183.7 | 47.5 | 0.460 |
| 4-1590 | 4-2170 | 0.546 | 66.8 | -55.4 | -26.23 | 1.195 | 84.5 | 0.438 | 1.755 | 18.0 | 214.2 | --- | 2.523 | 26.15 | 0.574 | 68.9 | 179.6 | 42.0 | 0.353 |
| 4-1590 | 4-2190 | 0.423 | 71.6 | -45.1 | -18.96 | 1.197 | 85.6 | 0.439 | 1.769 | 14.6 | 216.5 | --- | 2.547 | 19.26 | 0.584 | 68.0 | 179.4 | 35.1 | 0.310 |
| 4-1590 | 4-2210 | 0.351 | 76.3 | -36.6 | -14.56 | 1.199 | 86.7 | 0.442 | 1.784 | 10.7 | 218.5 | --- | 2.572 | 15.27 | 0.592 | 67.2 | 181.4 | 29.2 | 0.294 |
| 4-1590 | 4-2230 | 0.305 | 81.7 | -29.2 | -11.60 | 1.201 | 88.0 | 0.444 | 1.799 | 6.4 | 220.4 | --- | 2.598 | 12.72 | 0.601 | 66.5 | 184.4 | 24.6 | 0.291 |
| 4-1590 | 4-2250 | 0.274 | 88.1 | -22.6 | -9.43 | 1.202 | 89.4 | 0.448 | 1.814 | 1.9 | 222.1 | --- | 2.627 | 10.98 | 0.608 | 65.8 | 188.2 | 21.1 | 0.294 |
| 4-1590 | 4-2270 | 0.254 | 95.6 | -16.5 | -7.75 | 1.204 | 90.9 | 0.453 | 1.829 | 357.1 | 583.6 | 1.001 | 2.657 | 9.76 | 0.615 | 65.1 | 192.4 | 18.3 | 0.301 |
| 4-1590 | 4-2290 | 0.243 | 104.0 | -10.8 | -6.37 | 1.206 | 92.5 | 0.459 | 1.845 | 352.0 | 584.9 | 0.998 | 2.691 | 8.87 | 0.620 | 64.4 | 197.0 | 16.1 | 0.310 |
| 4-1590 | 4-2310 | 0.240 | 113.1 | -5.7 | -5.21 | 1.208 | 94.2 | 0.466 | 1.860 | 346.7 | 586.0 | 0.993 | 2.728 | 8.22 | 0.625 | 63.6 | 201.9 | 14.4 | 0.322 |
| 4-1590 | 4-2330 | 0.247 | 122.6 | -1.4 | -4.19 | 1.210 | 96.1 | 0.475 | 1.876 | 341.1 | 586.8 | 0.984 | 2.768 | 7.75 | 0.630 | 62.8 | 207.0 | 13.0 | 0.335 |
| 4-1590 | 4-2350 | 0.261 | 131.9 | 2.1 | -3.27 | 1.212 | 98.1 | 0.487 | 1.892 | 335.2 | 587.4 | 0.971 | 2.812 | 7.42 | 0.633 | 61.9 | 212.3 | 11.9 | 0.349 |
| 4-1590 | 4-2370 | 0.282 | 140.8 | 4.5 | -2.42 | 1.214 | 100.2 | 0.500 | 1.907 | 329.1 | 587.8 | 0.954 | 2.861 | 7.20 | 0.635 | 60.9 | 217.8 | 11.0 | 0.365 |
| 4-1590 | 4-2390 | 0.311 | 149.0 | 6.1 | -1.60 | 1.215 | 102.5 | 0.516 | 1.923 | 322.7 | 587.8 | 0.937 | 2.915 | 7.09 | 0.637 | 59.7 | 223.4 | 10.2 | 0.382 |
| 4-1600 | 4-1720 | 0.618 | 54.8 | 13.5 | -2.61 | 1.468 | 71.9 | 1.137 | -6.635 | 34.0 | 102.4 | --- | --- | -7.67 | 0.964 | 145.8 | 186.7 | -5.1 | 0.814 |
| 4-1600 | 4-1740 | 0.546 | 48.6 | 13.2 | -1.97 | 1.375 | 71.5 | 0.900 | 8.879 | 39.2 | 112.1 | --- | --- | -7.46 | 0.817 | 141.6 | 187.3 | -5.7 | 0.666 |
| 4-1600 | 4-1760 | 0.504 | 43.2 | 13.0 | -1.35 | 1.313 | 71.1 | 0.755 | 3.574 | 44.4 | 121.9 | --- | --- | -7.30 | 0.709 | 136.8 | 187.7 | -6.4 | 0.553 |
| 4-1600 | 4-1780 | 0.479 | 38.7 | 13.2 | -0.76 | 1.270 | 70.7 | 0.664 | 2.566 | 49.1 | 131.2 | --- | --- | -7.20 | 0.628 | 131.6 | 187.7 | -7.3 | 0.466 |
| 4-1600 | 4-1800 | 0.464 | 35.1 | 13.5 | -0.18 | 1.241 | 70.4 | 0.607 | 2.155 | 53.1 | 139.9 | --- | --- | -7.14 | 0.569 | 126.1 | 187.4 | -8.3 | 0.396 |
| 4-1600 | 4-1820 | 0.454 | 32.4 | 14.2 | 0.41 | 1.220 | 70.2 | 0.569 | 1.942 | 56.3 | 147.6 | --- | --- | -7.13 | 0.525 | 120.4 | 186.5 | -9.5 | 0.341 |
| 4-1600 | 4-1840 | 0.446 | 30.3 | 15.0 | 1.00 | 1.205 | 70.2 | 0.543 | 1.819 | 58.5 | 154.6 | --- | --- | -7.17 | 0.495 | 114.6 | 185.0 | -10.9 | 0.297 |
| 4-1600 | 4-1860 | 0.441 | 28.7 | 16.2 | 1.60 | 1.195 | 70.2 | 0.526 | 1.743 | 60.0 | 160.8 | --- | --- | -7.26 | 0.474 | 109.0 | 183.0 | -12.5 | 0.262 |
| 4-1600 | 4-1880 | 0.435 | 27.6 | 17.5 | 2.24 | 1.189 | 70.3 | 0.513 | 1.695 | 60.7 | 166.3 | --- | --- | -7.40 | 0.462 | 103.6 | 180.3 | -14.2 | 0.235 |
| 4-1600 | 4-1900 | 0.430 | 26.7 | 19.2 | 2.91 | 1.184 | 70.6 | 0.503 | 1.665 | 60.8 | 171.3 | --- | --- | -7.61 | 0.456 | 98.6 | 177.1 | -16.1 | 0.215 |
| 4-1600 | 4-1920 | 0.425 | 26.1 | 21.1 | 3.64 | 1.182 | 70.9 | 0.496 | 1.648 | 60.4 | 175.8 | --- | --- | -7.89 | 0.455 | 94.1 | 173.5 | -18.0 | 0.202 |
| 4-1600 | 4-1940 | 0.420 | 25.5 | 23.3 | 4.44 | 1.180 | 71.3 | 0.489 | 1.638 | 59.6 | 180.0 | --- | --- | -8.27 | 0.457 | 90.0 | 169.9 | -19.9 | 0.194 |
| 4-1600 | 4-1960 | 0.415 | 25.0 | 26.0 | 5.34 | 1.180 | 71.8 | 0.484 | 1.635 | 58.4 | 183.8 | --- | 2.427 | -8.76 | 0.463 | 86.4 | 166.5 | -21.7 | 0.191 |
| 4-1600 | 4-1980 | 0.412 | 24.3 | 29.1 | 6.37 | 1.180 | 72.3 | 0.480 | 1.637 | 56.9 | 187.4 | --- | 2.422 | -9.40 | 0.470 | 83.3 | 163.7 | -23.4 | 0.192 |
| 4-1600 | 4-2000 | 0.410 | 23.4 | 32.8 | 7.60 | 1.181 | 73.0 | 0.476 | 1.642 | 55.1 | 190.8 | --- | 2.422 | -10.24 | 0.479 | 80.5 | 161.6 | -25.2 | 0.197 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1600 | 4-2020 | 0.411 | 21.9 | 37.3 | 9.11 | 1.182 | 73.6 | 0.472 | 1.649 | 53.1 | 194.0 | --- | 2.427 | -11.37 | 0.489 | 78.1 | 160.5 | -27.3 | 0.206 |
| 4-1600 | 4-2040 | 0.417 | 19.3 | 42.5 | 11.05 | 1.183 | 74.3 | 0.469 | 1.659 | 50.8 | 197.1 | --- | 2.436 | -12.93 | 0.500 | 76.0 | 160.3 | -29.7 | 0.219 |
| 4-1600 | 4-2060 | 0.434 | 14.7 | 48.7 | 13.65 | 1.185 | 75.1 | 0.466 | 1.670 | 48.4 | 200.0 | --- | 2.447 | -15.16 | 0.511 | 74.2 | 161.2 | -32.6 | 0.239 |
| 4-1600 | 4-2080 | 0.471 | 5.6 | 55.3 | 17.43 | 1.187 | 75.9 | 0.463 | 1.682 | 45.8 | 202.9 | --- | 2.461 | -18.58 | 0.523 | 72.6 | 163.3 | -36.4 | 0.268 |
| 4-1600 | 4-2100 | 0.548 | 347.8 | 60.7 | 23.48 | 1.189 | 76.7 | 0.461 | 1.695 | 43.2 | 205.6 | --- | 2.477 | -24.25 | 0.534 | 71.2 | 167.4 | -41.0 | 0.317 |
| 4-1600 | 4-2120 | 0.716 | 320.1 | 59.8 | 34.59 | 1.191 | 77.5 | 0.460 | 1.709 | 40.7 | 208.2 | --- | 2.496 | -34.99 | 0.545 | 69.9 | 174.8 | -45.5 | 0.412 |
| 4-1600 | 4-2140 | 1.103 | 298.4 | 45.9 | 58.62 | 1.193 | 77.9 | 0.462 | 1.724 | 39.1 | 210.7 | --- | 2.519 | -58.65 | 0.556 | 68.6 | 188.1 | -45.3 | 0.623 |
| 4-1600 | 4-2180 | 0.823 | 51.9 | -66.9 | -42.12 | 1.197 | 82.5 | 0.446 | 1.754 | 24.4 | 214.9 | --- | 2.537 | 42.84 | 0.577 | 68.0 | 190.5 | 46.6 | 0.501 |
| 4-1600 | 4-2200 | 0.554 | 67.1 | -52.9 | -26.32 | 1.199 | 83.4 | 0.448 | 1.770 | 21.5 | 217.1 | --- | 2.563 | 27.43 | 0.586 | 67.2 | 185.6 | 41.1 | 0.379 |
| 4-1600 | 4-2220 | 0.421 | 73.5 | -41.8 | -18.40 | 1.201 | 84.5 | 0.449 | 1.786 | 17.7 | 219.1 | --- | 2.588 | 19.90 | 0.595 | 66.5 | 185.5 | 34.0 | 0.332 |
| 4-1600 | 4-2240 | 0.345 | 79.1 | -32.7 | -13.72 | 1.203 | 85.8 | 0.451 | 1.802 | 13.5 | 221.0 | --- | 2.614 | 15.63 | 0.603 | 65.9 | 187.8 | 28.1 | 0.315 |
| 4-1600 | 4-2260 | 0.297 | 85.3 | -25.0 | -10.61 | 1.205 | 87.2 | 0.453 | 1.818 | 9.0 | 222.6 | --- | 2.641 | 12.96 | 0.610 | 65.3 | 191.2 | 23.6 | 0.310 |
| 4-1600 | 4-2280 | 0.265 | 92.5 | -18.1 | -8.36 | 1.207 | 88.7 | 0.456 | 1.834 | 4.2 | 224.1 | --- | 2.671 | 11.15 | 0.617 | 64.7 | 195.3 | 20.2 | 0.313 |
| 4-1600 | 4-2300 | 0.244 | 100.9 | -11.9 | -6.63 | 1.209 | 90.3 | 0.460 | 1.851 | 359.1 | 585.4 | 0.999 | 2.703 | 9.88 | 0.623 | 64.1 | 199.9 | 17.5 | 0.319 |
| 4-1600 | 4-2320 | 0.234 | 110.4 | -6.4 | -5.23 | 1.211 | 92.0 | 0.466 | 1.867 | 353.8 | 586.5 | 0.997 | 2.738 | 8.97 | 0.627 | 63.5 | 204.7 | 15.5 | 0.328 |
| 4-1600 | 4-2340 | 0.232 | 120.7 | -1.6 | -4.05 | 1.213 | 93.8 | 0.473 | 1.884 | 348.2 | 587.3 | 0.992 | 2.776 | 8.31 | 0.631 | 62.9 | 209.8 | 13.9 | 0.339 |
| 4-1600 | 4-2360 | 0.240 | 131.1 | 2.1 | -3.02 | 1.215 | 95.7 | 0.482 | 1.900 | 342.4 | 588.0 | 0.983 | 2.817 | 7.83 | 0.634 | 62.1 | 215.1 | 12.6 | 0.351 |
| 4-1600 | 4-2380 | 0.256 | 141.3 | 4.8 | -2.09 | 1.217 | 97.8 | 0.493 | 1.917 | 336.3 | 588.4 | 0.971 | 2.862 | 7.50 | 0.637 | 61.2 | 220.5 | 11.5 | 0.364 |
| 4-1600 | 4-2400 | 0.279 | 150.7 | 6.3 | -1.23 | 1.219 | 100.0 | 0.507 | 1.933 | 330.0 | 588.5 | 0.954 | 2.913 | 7.28 | 0.638 | 60.3 | 226.1 | 10.7 | 0.379 |
| 4-1610 | 4-1750 | 0.622 | 44.5 | 13.3 | -1.76 | 1.342 | 65.0 | 0.834 | 4.826 | 55.5 | 120.8 | --- | --- | -7.69 | 0.758 | 141.4 | 185.8 | -5.8 | 0.626 |
| 4-1610 | 4-1770 | 0.584 | 40.4 | 13.4 | -1.11 | 1.287 | 65.0 | 0.725 | 2.839 | 60.7 | 130.6 | --- | --- | -7.44 | 0.657 | 136.2 | 185.7 | -6.5 | 0.521 |
| 4-1610 | 4-1790 | 0.560 | 37.2 | 13.7 | -0.48 | 1.250 | 65.0 | 0.657 | 2.238 | 65.1 | 139.6 | --- | --- | -7.25 | 0.582 | 130.5 | 185.2 | -7.3 | 0.439 |
| 4-1610 | 4-1810 | 0.544 | 34.8 | 14.2 | 0.12 | 1.224 | 65.0 | 0.614 | 1.962 | 68.4 | 147.5 | --- | --- | -7.11 | 0.528 | 124.4 | 184.2 | -8.3 | 0.375 |
| 4-1610 | 4-1830 | 0.531 | 33.1 | 14.9 | 0.70 | 1.207 | 65.2 | 0.586 | 1.811 | 70.7 | 154.5 | --- | --- | -7.02 | 0.490 | 118.2 | 182.7 | -9.4 | 0.324 |
| 4-1610 | 4-1850 | 0.522 | 31.9 | 15.7 | 1.28 | 1.195 | 65.4 | 0.566 | 1.722 | 72.0 | 160.6 | --- | --- | -6.98 | 0.465 | 112.0 | 180.6 | -10.6 | 0.285 |
| 4-1610 | 4-1870 | 0.513 | 31.0 | 16.8 | 1.87 | 1.187 | 65.6 | 0.552 | 1.668 | 72.7 | 166.0 | --- | --- | -6.99 | 0.449 | 106.1 | 177.9 | -11.9 | 0.254 |
| 4-1610 | 4-1890 | 0.504 | 30.5 | 18.0 | 2.47 | 1.182 | 66.0 | 0.541 | 1.635 | 72.7 | 170.8 | --- | --- | -7.05 | 0.441 | 100.5 | 174.8 | -13.3 | 0.231 |
| 4-1610 | 4-1910 | 0.496 | 30.2 | 19.5 | 3.09 | 1.179 | 66.5 | 0.532 | 1.616 | 72.1 | 175.2 | --- | --- | -7.17 | 0.438 | 95.5 | 171.3 | -14.7 | 0.215 |
| 4-1610 | 4-1930 | 0.488 | 30.0 | 21.1 | 3.74 | 1.177 | 67.0 | 0.525 | 1.607 | 71.2 | 179.2 | --- | --- | -7.34 | 0.441 | 90.9 | 167.9 | -16.0 | 0.205 |
| 4-1610 | 4-1950 | 0.480 | 29.9 | 23.0 | 4.44 | 1.177 | 67.6 | 0.518 | 1.604 | 69.8 | 182.9 | --- | 2.435 | -7.59 | 0.446 | 86.9 | 164.6 | -17.2 | 0.199 |
| 4-1610 | 4-1970 | 0.471 | 29.9 | 25.2 | 5.21 | 1.177 | 68.2 | 0.512 | 1.606 | 68.2 | 186.3 | --- | 2.428 | -7.92 | 0.454 | 83.5 | 161.9 | -18.3 | 0.198 |
| 4-1610 | 4-1990 | 0.464 | 29.9 | 27.7 | 6.07 | 1.178 | 68.9 | 0.506 | 1.612 | 66.3 | 189.6 | --- | 2.428 | -8.36 | 0.464 | 80.4 | 159.9 | -19.5 | 0.200 |
| 4-1610 | 4-2010 | 0.457 | 29.7 | 30.6 | 7.06 | 1.180 | 69.7 | 0.501 | 1.620 | 64.2 | 192.7 | --- | 2.432 | -8.94 | 0.475 | 77.8 | 158.7 | -20.7 | 0.204 |
| 4-1610 | 4-2030 | 0.451 | 29.3 | 34.1 | 8.22 | 1.181 | 70.5 | 0.496 | 1.631 | 61.8 | 195.7 | --- | 2.440 | -9.70 | 0.486 | 75.6 | 158.2 | -22.0 | 0.212 |
| 4-1610 | 4-2050 | 0.449 | 28.4 | 38.2 | 9.64 | 1.183 | 71.3 | 0.492 | 1.643 | 59.2 | 198.5 | --- | 2.451 | -10.73 | 0.498 | 73.7 | 158.7 | -23.7 | 0.222 |
| 4-1610 | 4-2070 | 0.451 | 26.6 | 43.1 | 11.43 | 1.185 | 72.2 | 0.487 | 1.657 | 56.5 | 201.2 | --- | 2.464 | -12.15 | 0.510 | 72.1 | 159.9 | -25.8 | 0.235 |
| 4-1610 | 4-2090 | 0.462 | 23.0 | 48.9 | 13.84 | 1.188 | 73.2 | 0.483 | 1.671 | 53.6 | 203.9 | --- | 2.479 | -14.18 | 0.523 | 70.7 | 162.0 | -28.6 | 0.253 |
| 4-1610 | 4-2110 | 0.490 | 15.7 | 55.4 | 17.30 | 1.190 | 74.1 | 0.480 | 1.687 | 50.6 | 206.5 | --- | 2.495 | -17.27 | 0.535 | 69.5 | 165.1 | -32.3 | 0.278 |
| 4-1610 | 4-2130 | 0.553 | 0.2 | 61.4 | 22.75 | 1.192 | 75.1 | 0.476 | 1.702 | 47.6 | 208.9 | --- | 2.513 | -22.35 | 0.546 | 68.4 | 169.8 | -37.1 | 0.320 |
| 4-1610 | 4-2150 | 0.696 | 332.5 | 62.4 | 32.64 | 1.194 | 76.0 | 0.474 | 1.719 | 44.6 | 211.3 | --- | 2.534 | -31.87 | 0.558 | 67.5 | 177.6 | -42.6 | 0.402 |
| 4-1610 | 4-2170 | 1.039 | 307.7 | 50.5 | 54.13 | 1.197 | 76.7 | 0.474 | 1.735 | 42.4 | 213.6 | --- | 2.559 | -52.98 | 0.569 | 66.5 | 191.6 | -45.1 | 0.588 |
| 4-1610 | 4-2210 | 0.843 | 51.0 | -63.7 | -42.92 | 1.201 | 81.4 | 0.457 | 1.769 | 27.7 | 217.6 | --- | 2.579 | 44.81 | 0.588 | 66.4 | 197.5 | 45.6 | 0.532 |
| 4-1610 | 4-2230 | 0.549 | 69.3 | -49.3 | -25.60 | 1.204 | 82.4 | 0.458 | 1.787 | 24.5 | 219.6 | --- | 2.606 | 27.88 | 0.597 | 65.7 | 191.9 | 39.7 | 0.399 |
| 4-1610 | 4-2250 | 0.411 | 76.9 | -37.4 | -17.24 | 1.206 | 83.6 | 0.459 | 1.804 | 20.5 | 221.4 | --- | 2.632 | 19.92 | 0.605 | 65.2 | 192.0 | 32.4 | 0.350 |
| 4-1610 | 4-2270 | 0.334 | 83.3 | -27.7 | -12.43 | 1.208 | 85.0 | 0.460 | 1.821 | 16.0 | 223.0 | --- | 2.659 | 15.52 | 0.613 | 64.7 | 194.6 | 26.5 | 0.332 |
| 4-1610 | 4-2290 | 0.286 | 90.2 | -19.6 | -9.28 | 1.210 | 86.5 | 0.462 | 1.839 | 11.2 | 224.5 | --- | 2.688 | 12.79 | 0.619 | 64.2 | 198.4 | 22.1 | 0.328 |
| 4-1610 | 4-2310 | 0.254 | 98.3 | -12.5 | -7.03 | 1.212 | 88.1 | 0.464 | 1.856 | 6.1 | 225.8 | --- | 2.718 | 10.98 | 0.624 | 63.8 | 202.8 | 18.9 | 0.330 |
| 4-1610 | 4-2330 | 0.235 | 107.6 | -6.4 | -5.31 | 1.214 | 89.7 | 0.469 | 1.874 | 0.8 | 226.8 | --- | 2.751 | 9.72 | 0.629 | 63.3 | 207.6 | 16.4 | 0.336 |
| 4-1610 | 4-2350 | 0.226 | 118.2 | -1.2 | -3.93 | 1.216 | 91.5 | 0.474 | 1.891 | 355.2 | 587.7 | 0.995 | 2.787 | 8.81 | 0.633 | 62.8 | 212.6 | 14.5 | 0.344 |
| 4-1610 | 4-2370 | 0.226 | 129.4 | 2.9 | -2.77 | 1.218 | 93.4 | 0.481 | 1.908 | 349.5 | 588.4 | 0.990 | 2.828 | 8.10 | 0.636 | 62.1 | 217.8 | 13.0 | 0.354 |
| 4-1610 | 4-2390 | 0.235 | 140.7 | 5.8 | -1.76 | 1.220 | 95.4 | 0.490 | 1.925 | 343.5 | 588.8 | 0.982 | 2.869 | 7.69 | 0.638 | 61.4 | 223.3 | 11.8 | 0.365 |
| 4-1610 | 4-2410 | 0.253 | 151.4 | 7.4 | -0.85 | 1.222 | 97.5 | 0.501 | 1.943 | 337.3 | 589.0 | 0.970 | 2.915 | 7.35 | 0.639 | 60.6 | 228.8 | 10.9 | 0.377 |
| 4-1620 | 4-1760 | 0.715 | 42.8 | 13.9 | -1.57 | 1.310 | 58.1 | 0.798 | 3.364 | 73.2 | 130.9 | --- | --- | -7.85 | 0.696 | 141.6 | 183.3 | -5.7 | 0.594 |
| 4-1620 | 4-1780 | 0.677 | 39.9 | 14.1 | -0.85 | 1.262 | 58.6 | 0.719 | 2.369 | 77.8 | 140.0 | --- | --- | -7.49 | 0.602 | 135.8 | 182.7 | -6.3 | 0.495 |
| 4-1620 | 4-1800 | 0.650 | 37.8 | 14.6 | -0.19 | 1.229 | 59.0 | 0.671 | 1.990 | 81.2 | 148.0 | --- | --- | -7.21 | 0.534 | 129.5 | 181.6 | -7.1 | 0.419 |
| 4-1620 | 4-1820 | 0.631 | 36.4 | 15.2 | 0.43 | 1.208 | 59.4 | 0.639 | 1.802 | 83.4 | 154.9 | --- | --- | -6.98 | 0.486 | 122.8 | 180.0 | -7.9 | 0.360 |
| 4-1620 | 4-1840 | 0.615 | 35.4 | 15.9 | 1.02 | 1.194 | 59.9 | 0.617 | 1.697 | 84.6 | 160.8 | --- | --- | -6.82 | 0.453 | 115.9 | 177.8 | -8.8 | 0.314 |
| 4-1620 | 4-1860 | 0.602 | 34.8 | 16.8 | 1.60 | 1.184 | 60.4 | 0.601 | 1.635 | 85.0 | 166.0 | --- | --- | -6.71 | 0.432 | 109.3 | 175.1 | -9.8 | 0.279 |
| 4-1620 | 4-1880 | 0.589 | 34.5 | 17.8 | 2.16 | 1.178 | 60.9 | 0.588 | 1.598 | 84.8 | 170.5 | --- | --- | -6.64 | 0.421 | 102.9 | 172.1 | -10.8 | 0.253 |
| 4-1620 | 4-1900 | 0.578 | 34.5 | 19.0 | 2.73 | 1.175 | 61.5 | 0.577 | 1.578 | 84.1 | 174.7 | --- | --- | -6.62 | 0.418 | 97.2 | 168.8 | -11.8 | 0.234 |
| 4-1620 | 4-1920 | 0.566 | 34.6 | 20.2 | 3.30 | 1.173 | 62.2 | 0.568 | 1.568 | 82.9 | 178.5 | --- | --- | -6.65 | 0.420 | 92.0 | 165.5 | -12.7 | 0.221 |
| 4-1620 | 4-1940 | 0.555 | 34.8 | 21.7 | 3.89 | 1.173 | 62.9 | 0.560 | 1.566 | 81.4 | 182.0 | --- | 2.442 | -6.74 | 0.425 | 87.5 | 162.5 | -13.5 | 0.214 |
| 4-1620 | 4-1960 | 0.543 | 35.1 | 23.3 | 4.51 | 1.173 | 63.7 | 0.552 | 1.569 | 79.7 | 185.3 | --- | 2.435 | -6.88 | 0.434 | 83.6 | 159.9 | -14.2 | 0.210 |
| 4-1620 | 4-1980 | 0.531 | 35.5 | 25.1 | 5.18 | 1.175 | 64.5 | 0.544 | 1.576 | 77.6 | 188.4 | --- | 2.434 | -7.08 | 0.445 | 80.2 | 158.0 | -14.9 | 0.210 |
| 4-1620 | 4-2000 | 0.520 | 35.8 | 27.2 | 5.90 | 1.176 | 65.4 | 0.537 | 1.586 | 75.4 | 191.3 | --- | 2.438 | -7.37 | 0.456 | 77.4 | 156.8 | -15.6 | 0.213 |
| 4-1620 | 4-2020 | 0.509 | 36.2 | 29.5 | 6.70 | 1.178 | 66.3 | 0.531 | 1.598 | 72.9 | 194.2 | --- | 2.446 | -7.75 | 0.469 | 75.0 | 156.4 | -16.4 | 0.217 |
| 4-1620 | 4-2040 | 0.499 | 36.5 | 32.2 | 7.62 | 1.181 | 67.3 | 0.524 | 1.612 | 70.3 | 196.9 | --- | 2.456 | -8.27 | 0.482 | 73.0 | 156.7 | -17.3 | 0.224 |
| 4-1620 | 4-2060 | 0.490 | 36.5 | 35.4 | 8.69 | 1.183 | 68.2 | 0.518 | 1.627 | 67.4 | 199.6 | --- | 2.469 | -8.95 | 0.496 | 71.3 | 157.7 | -18.4 | 0.232 |
| 4-1620 | 4-2080 | 0.483 | 36.2 | 39.2 | 9.99 | 1.185 | 69.3 | 0.512 | 1.643 | 64.5 | 202.2 | --- | 2.483 | -9.87 | 0.509 | 69.8 | 159.3 | -19.8 | 0.241 |
| 4-1620 | 4-2100 | 0.481 | 35.2 | 43.8 | 11.63 | 1.188 | 70.3 | 0.506 | 1.659 | 61.3 | 204.7 | --- | 2.499 | -11.14 | 0.522 | 68.6 | 161.6 | -21.8 | 0.253 |
| 4-1620 | 4-2120 | 0.486 | 32.8 | 49.2 | 13.82 | 1.191 | 71.4 | 0.501 | 1.677 | 58.1 | 207.1 | --- | 2.516 | -12.95 | 0.535 | 67.6 | 164.6 | -24.4 | 0.269 |
| 4-1620 | 4-2140 | 0.506 | 27.2 | 55.7 | 16.93 | 1.193 | 72.5 | 0.496 | 1.694 | 54.7 | 209.5 | --- | 2.535 | -15.70 | 0.547 | 66.8 | 168.3 | -27.9 | 0.291 |
| 4-1620 | 4-2160 | 0.556 | 14.3 | 62.3 | 21.81 | 1.196 | 73.7 | 0.492 | 1.713 | 51.2 | 211.8 | --- | 2.554 | -20.22 | 0.559 | 66.0 | 173.4 | -32.8 | 0.326 |
| 4-1620 | 4-2180 | 0.675 | 346.8 | 65.3 | 30.60 | 1.198 | 74.7 | 0.488 | 1.731 | 47.9 | 214.0 | --- | 2.576 | -28.66 | 0.570 | 65.4 | 181.1 | -39.2 | 0.394 |
| 4-1620 | 4-2200 | 0.979 | 317.1 | 55.6 | 49.95 | 1.201 | 75.6 | 0.487 | 1.749 | 45.0 | 216.1 | --- | 2.601 | -47.64 | 0.581 | 64.7 | 195.3 | -44.1 | 0.557 |
| 4-1620 | 4-2240 | 0.843 | 53.3 | -59.8 | -42.57 | 1.206 | 80.3 | 0.469 | 1.787 | 30.6 | 219.9 | --- | 2.624 | 45.60 | 0.599 | 64.8 | 204.4 | 44.5 | 0.553 |
| 4-1620 | 4-2260 | 0.531 | 73.3 | -44.7 | -24.03 | 1.208 | 81.4 | 0.469 | 1.805 | 27.2 | 221.7 | --- | 2.652 | 27.43 | 0.607 | 64.3 | 198.3 | 37.8 | 0.411 |
| 4-1620 | 4-2280 | 0.392 | 81.8 | -31.8 | -15.51 | 1.211 | 82.8 | 0.469 | 1.824 | 22.8 | 223.3 | --- | 2.679 | 19.29 | 0.614 | 64.0 | 198.7 | 30.2 | 0.363 |
| 4-1620 | 4-2300 | 0.318 | 88.9 | -21.5 | -10.73 | 1.213 | 84.2 | 0.469 | 1.842 | 18.1 | 224.7 | --- | 2.707 | 14.91 | 0.621 | 63.6 | 201.7 | 24.4 | 0.347 |
| 4-1620 | 4-2320 | 0.273 | 96.6 | -13.0 | -7.66 | 1.215 | 85.8 | 0.471 | 1.861 | 13.0 | 226.0 | --- | 2.737 | 12.24 | 0.626 | 63.3 | 205.8 | 20.2 | 0.343 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1620 | 4-2340 | 0.244 | 105.5 | -5.9 | -5.49 | 1.217 | 87.5 | 0.473 | 1.879 | 7.7 | 227.1 | --- | 2.768 | 10.48 | 0.630 | 62.9 | 210.5 | 17.2 | 0.345 |
| 4-1620 | 4-2360 | 0.227 | 115.7 | -0.1 | -3.84 | 1.219 | 89.3 | 0.477 | 1.897 | 2.2 | 228.0 | --- | 2.802 | 9.26 | 0.634 | 62.5 | 215.5 | 15.0 | 0.350 |
| 4-1620 | 4-2380 | 0.220 | 127.2 | 4.5 | -2.51 | 1.221 | 91.1 | 0.482 | 1.916 | 356.5 | 588.7 | 0.992 | 2.839 | 8.39 | 0.636 | 62.0 | 220.7 | 13.2 | 0.358 |
| 4-1620 | 4-2400 | 0.222 | 139.3 | 7.6 | -1.41 | 1.223 | 93.1 | 0.489 | 1.934 | 350.6 | 589.1 | 0.989 | 2.879 | 7.77 | 0.638 | 61.5 | 226.0 | 11.9 | 0.367 |
| 4-1620 | 4-2420 | 0.234 | 151.2 | 9.3 | -0.46 | 1.225 | 95.1 | 0.497 | 1.952 | 344.5 | 589.4 | 0.981 | 2.922 | 7.31 | 0.639 | 60.8 | 231.5 | 10.8 | 0.377 |
| 4-1630 | 4-1770 | 0.820 | 43.0 | 14.8 | -1.36 | 1.280 | 51.0 | 0.794 | 2.625 | 91.4 | 141.3 | --- | --- | -7.93 | 0.634 | 142.5 | 179.9 | -5.4 | 0.571 |
| 4-1630 | 4-1790 | 0.778 | 41.2 | 15.2 | -0.57 | 1.237 | 51.9 | 0.739 | 2.049 | 94.6 | 149.1 | --- | --- | -7.45 | 0.546 | 136.0 | 178.7 | -5.9 | 0.478 |
| 4-1630 | 4-1810 | 0.747 | 40.0 | 15.8 | 0.13 | 1.210 | 52.8 | 0.703 | 1.800 | 96.6 | 155.7 | --- | --- | -7.06 | 0.483 | 128.8 | 177.0 | -6.5 | 0.408 |
| 4-1630 | 4-1830 | 0.723 | 39.3 | 16.4 | 0.78 | 1.192 | 53.6 | 0.678 | 1.670 | 97.5 | 161.3 | --- | --- | -6.75 | 0.440 | 121.2 | 174.9 | -7.2 | 0.354 |
| 4-1630 | 4-1850 | 0.703 | 38.9 | 17.2 | 1.38 | 1.180 | 54.4 | 0.659 | 1.598 | 97.6 | 166.2 | --- | --- | -6.51 | 0.413 | 113.6 | 172.3 | -7.9 | 0.313 |
| 4-1630 | 4-1870 | 0.686 | 38.8 | 18.1 | 1.95 | 1.173 | 55.2 | 0.644 | 1.557 | 97.1 | 170.5 | --- | --- | -6.33 | 0.398 | 106.3 | 169.3 | -8.6 | 0.282 |
| 4-1630 | 4-1890 | 0.669 | 39.0 | 19.1 | 2.50 | 1.169 | 56.1 | 0.631 | 1.535 | 96.2 | 174.3 | --- | --- | -6.19 | 0.392 | 99.5 | 166.2 | -9.2 | 0.260 |
| 4-1630 | 4-1910 | 0.654 | 39.3 | 20.1 | 3.03 | 1.168 | 56.9 | 0.620 | 1.524 | 94.8 | 177.9 | --- | --- | -6.10 | 0.394 | 93.5 | 163.1 | -9.8 | 0.244 |
| 4-1630 | 4-1930 | 0.639 | 39.7 | 21.3 | 3.56 | 1.167 | 57.8 | 0.609 | 1.523 | 93.1 | 181.2 | --- | 2.450 | -6.06 | 0.400 | 88.2 | 160.3 | -10.4 | 0.235 |
| 4-1630 | 4-1950 | 0.624 | 40.3 | 22.5 | 4.10 | 1.168 | 58.8 | 0.599 | 1.527 | 91.2 | 184.2 | --- | 2.441 | -6.07 | 0.409 | 83.7 | 157.9 | -10.8 | 0.229 |
| 4-1630 | 4-1970 | 0.609 | 40.9 | 23.9 | 4.65 | 1.169 | 59.7 | 0.590 | 1.535 | 89.0 | 187.2 | --- | 2.440 | -6.12 | 0.421 | 79.9 | 156.2 | -11.2 | 0.227 |
| 4-1630 | 4-1990 | 0.594 | 41.6 | 25.5 | 5.22 | 1.172 | 60.7 | 0.581 | 1.546 | 86.6 | 190.0 | --- | 2.444 | -6.23 | 0.434 | 76.8 | 155.1 | -11.6 | 0.228 |
| 4-1630 | 4-2010 | 0.579 | 42.3 | 27.2 | 5.82 | 1.174 | 61.8 | 0.572 | 1.560 | 84.0 | 192.7 | --- | 2.452 | -6.40 | 0.449 | 74.1 | 154.7 | -12.0 | 0.231 |
| 4-1630 | 4-2030 | 0.564 | 43.0 | 29.1 | 6.48 | 1.177 | 62.8 | 0.563 | 1.575 | 81.3 | 195.3 | --- | 2.462 | -6.64 | 0.463 | 71.9 | 155.0 | -12.5 | 0.235 |
| 4-1630 | 4-2050 | 0.550 | 43.7 | 31.3 | 7.21 | 1.179 | 63.9 | 0.555 | 1.592 | 78.4 | 197.9 | --- | 2.475 | -6.96 | 0.478 | 70.1 | 155.9 | -13.1 | 0.240 |
| 4-1630 | 4-2070 | 0.536 | 44.4 | 33.8 | 8.03 | 1.182 | 65.1 | 0.547 | 1.609 | 75.4 | 200.4 | --- | 2.489 | -7.40 | 0.493 | 68.6 | 157.4 | -13.9 | 0.247 |
| 4-1630 | 4-2090 | 0.524 | 45.0 | 36.8 | 9.00 | 1.185 | 66.2 | 0.539 | 1.627 | 72.2 | 202.8 | --- | 2.505 | -8.00 | 0.507 | 67.4 | 159.4 | -14.8 | 0.254 |
| 4-1630 | 4-2110 | 0.514 | 45.3 | 40.2 | 10.16 | 1.188 | 67.4 | 0.532 | 1.646 | 68.8 | 205.2 | --- | 2.522 | -8.80 | 0.521 | 66.4 | 162.0 | -16.1 | 0.263 |
| 4-1630 | 4-2130 | 0.507 | 45.0 | 44.4 | 11.62 | 1.191 | 68.6 | 0.525 | 1.666 | 65.4 | 207.5 | --- | 2.540 | -9.91 | 0.535 | 65.6 | 165.0 | -17.8 | 0.274 |
| 4-1630 | 4-2150 | 0.506 | 43.8 | 49.5 | 13.56 | 1.194 | 69.9 | 0.518 | 1.685 | 61.8 | 209.8 | --- | 2.559 | -11.50 | 0.547 | 64.9 | 168.6 | -20.2 | 0.287 |
| 4-1630 | 4-2170 | 0.518 | 40.2 | 55.8 | 16.31 | 1.197 | 71.1 | 0.512 | 1.705 | 58.1 | 212.0 | --- | 2.578 | -13.90 | 0.560 | 64.4 | 172.8 | -23.5 | 0.304 |
| 4-1630 | 4-2190 | 0.555 | 30.4 | 62.9 | 20.59 | 1.200 | 72.4 | 0.506 | 1.725 | 54.3 | 214.2 | --- | 2.599 | -17.85 | 0.571 | 63.9 | 178.0 | -28.3 | 0.332 |
| 4-1630 | 4-2210 | 0.651 | 4.6 | 68.3 | 28.31 | 1.203 | 73.6 | 0.502 | 1.745 | 50.5 | 216.2 | --- | 2.621 | -25.23 | 0.582 | 63.5 | 185.3 | -35.0 | 0.387 |
| 4-1630 | 4-2230 | 0.916 | 327.5 | 61.2 | 45.65 | 1.205 | 74.7 | 0.499 | 1.765 | 47.2 | 218.1 | --- | 2.646 | -42.24 | 0.592 | 63.1 | 198.9 | -42.3 | 0.527 |
| 4-1630 | 4-2270 | 0.823 | 58.3 | -55.5 | -40.99 | 1.210 | 79.4 | 0.480 | 1.805 | 33.2 | 221.8 | --- | 2.673 | 45.08 | 0.609 | 63.5 | 211.0 | 43.3 | 0.562 |
| 4-1630 | 4-2290 | 0.500 | 79.0 | -39.0 | -21.62 | 1.213 | 80.5 | 0.480 | 1.825 | 29.5 | 223.4 | --- | 2.701 | 26.05 | 0.616 | 63.1 | 204.6 | 35.3 | 0.417 |
| 4-1630 | 4-2310 | 0.368 | 88.2 | -25.0 | -13.24 | 1.215 | 82.0 | 0.479 | 1.845 | 24.9 | 224.8 | --- | 2.729 | 18.03 | 0.622 | 62.9 | 205.6 | 27.4 | 0.373 |
| 4-1630 | 4-2330 | 0.301 | 96.0 | -14.1 | -8.68 | 1.218 | 83.6 | 0.479 | 1.865 | 19.9 | 226.1 | --- | 2.758 | 13.83 | 0.627 | 62.7 | 209.1 | 21.8 | 0.359 |
| 4-1630 | 4-2350 | 0.261 | 104.4 | -5.4 | -5.79 | 1.220 | 85.3 | 0.480 | 1.884 | 14.6 | 227.2 | --- | 2.788 | 11.31 | 0.631 | 62.4 | 213.5 | 18.0 | 0.356 |
| 4-1630 | 4-2370 | 0.236 | 114.1 | 1.5 | -3.77 | 1.222 | 87.0 | 0.482 | 1.903 | 9.1 | 228.1 | --- | 2.820 | 9.66 | 0.634 | 62.1 | 218.4 | 15.2 | 0.358 |
| 4-1630 | 4-2390 | 0.222 | 125.3 | 6.7 | -2.24 | 1.224 | 88.9 | 0.485 | 1.922 | 3.4 | 228.8 | --- | 2.855 | 8.53 | 0.637 | 61.8 | 223.5 | 13.2 | 0.363 |
| 4-1630 | 4-2410 | 0.218 | 137.5 | 10.2 | -1.03 | 1.226 | 90.8 | 0.490 | 1.941 | 357.6 | 589.3 | 0.990 | 2.892 | 7.72 | 0.638 | 61.4 | 228.8 | 11.7 | 0.370 |
| 4-1630 | 4-2430 | 0.222 | 150.1 | 12.1 | -0.02 | 1.228 | 92.8 | 0.496 | 1.960 | 351.6 | 589.6 | 0.987 | 2.933 | 7.14 | 0.639 | 60.9 | 234.3 | 10.6 | 0.379 |
| 4-1640 | 4-1780 | 0.931 | 44.7 | 15.9 | -1.12 | 1.252 | 43.6 | 0.817 | 2.190 | 108.9 | 151.0 | --- | --- | -7.93 | 0.573 | 144.3 | 175.9 | -4.7 | 0.560 |
| 4-1640 | 4-1800 | 0.884 | 43.8 | 16.5 | -0.24 | 1.215 | 45.0 | 0.777 | 1.822 | 110.3 | 157.1 | --- | --- | -7.30 | 0.489 | 136.8 | 174.2 | -5.2 | 0.473 |
| 4-1640 | 4-1820 | 0.848 | 43.3 | 17.1 | 0.52 | 1.191 | 46.3 | 0.749 | 1.652 | 110.8 | 162.2 | --- | --- | -6.80 | 0.431 | 128.6 | 172.1 | -5.6 | 0.407 |
| 4-1640 | 4-1840 | 0.819 | 43.1 | 17.8 | 1.19 | 1.176 | 47.6 | 0.727 | 1.562 | 110.5 | 166.7 | --- | --- | -6.40 | 0.393 | 119.9 | 169.5 | -6.1 | 0.358 |
| 4-1640 | 4-1860 | 0.794 | 43.3 | 18.6 | 1.80 | 1.168 | 48.7 | 0.709 | 1.514 | 109.7 | 170.6 | --- | --- | -6.08 | 0.371 | 111.2 | 166.7 | -6.6 | 0.321 |
| 4-1640 | 4-1880 | 0.772 | 43.6 | 19.5 | 2.37 | 1.163 | 49.9 | 0.694 | 1.488 | 108.4 | 174.1 | --- | --- | -5.83 | 0.362 | 103.0 | 163.8 | -7.0 | 0.294 |
| 4-1640 | 4-1900 | 0.752 | 44.1 | 20.4 | 2.89 | 1.160 | 51.0 | 0.680 | 1.477 | 106.7 | 177.3 | --- | --- | -5.63 | 0.362 | 95.7 | 160.9 | -7.4 | 0.275 |
| 4-1640 | 4-1920 | 0.732 | 44.7 | 21.4 | 3.39 | 1.160 | 52.2 | 0.667 | 1.475 | 104.8 | 180.3 | --- | 2.458 | -5.48 | 0.368 | 89.4 | 158.3 | -7.7 | 0.262 |
| 4-1640 | 4-1940 | 0.713 | 45.5 | 22.5 | 3.88 | 1.161 | 53.3 | 0.654 | 1.480 | 102.7 | 183.2 | --- | 2.448 | -5.38 | 0.379 | 84.0 | 156.1 | -8.0 | 0.255 |
| 4-1640 | 4-1960 | 0.695 | 46.3 | 23.6 | 4.36 | 1.163 | 54.5 | 0.642 | 1.489 | 100.3 | 185.9 | --- | 2.445 | -5.32 | 0.392 | 79.6 | 154.5 | -8.2 | 0.251 |
| 4-1640 | 4-1980 | 0.677 | 47.2 | 24.8 | 4.84 | 1.165 | 55.6 | 0.631 | 1.502 | 97.8 | 188.5 | --- | 2.449 | -5.31 | 0.408 | 76.0 | 153.6 | -8.4 | 0.250 |
| 4-1640 | 4-2000 | 0.659 | 48.1 | 26.1 | 5.33 | 1.168 | 56.8 | 0.620 | 1.517 | 95.1 | 191.1 | --- | 2.457 | -5.34 | 0.424 | 73.0 | 153.2 | -8.7 | 0.251 |
| 4-1640 | 4-2020 | 0.641 | 49.1 | 27.6 | 5.84 | 1.171 | 58.0 | 0.609 | 1.533 | 92.3 | 193.6 | --- | 2.468 | -5.41 | 0.440 | 70.6 | 153.5 | -8.9 | 0.253 |
| 4-1640 | 4-2040 | 0.622 | 50.1 | 29.1 | 6.37 | 1.174 | 59.3 | 0.599 | 1.552 | 89.3 | 196.1 | --- | 2.481 | -5.54 | 0.457 | 68.7 | 154.4 | -9.2 | 0.257 |
| 4-1640 | 4-2060 | 0.605 | 51.2 | 30.9 | 6.95 | 1.178 | 60.5 | 0.589 | 1.571 | 86.2 | 198.5 | --- | 2.496 | -5.74 | 0.473 | 67.1 | 155.9 | -9.6 | 0.261 |
| 4-1640 | 4-2080 | 0.587 | 52.3 | 32.9 | 7.58 | 1.181 | 61.8 | 0.579 | 1.591 | 83.0 | 200.8 | --- | 2.512 | -6.00 | 0.489 | 65.8 | 157.8 | -10.1 | 0.267 |
| 4-1640 | 4-2100 | 0.570 | 53.4 | 35.2 | 8.30 | 1.185 | 63.1 | 0.569 | 1.612 | 79.6 | 203.2 | --- | 2.529 | -6.37 | 0.505 | 64.8 | 160.2 | -10.7 | 0.273 |
| 4-1640 | 4-2120 | 0.554 | 54.4 | 37.8 | 9.14 | 1.188 | 64.4 | 0.560 | 1.633 | 76.1 | 205.5 | --- | 2.547 | -6.87 | 0.520 | 64.0 | 163.0 | -11.5 | 0.279 |
| 4-1640 | 4-2140 | 0.540 | 55.3 | 40.9 | 10.14 | 1.191 | 65.7 | 0.551 | 1.654 | 72.5 | 207.7 | --- | 2.565 | -7.54 | 0.534 | 63.4 | 166.2 | -12.6 | 0.287 |
| 4-1640 | 4-2160 | 0.529 | 55.9 | 44.7 | 11.40 | 1.195 | 67.1 | 0.542 | 1.675 | 68.8 | 209.9 | --- | 2.584 | -8.48 | 0.547 | 62.9 | 169.7 | -14.1 | 0.295 |
| 4-1640 | 4-2180 | 0.522 | 55.9 | 49.4 | 13.06 | 1.198 | 68.5 | 0.534 | 1.697 | 64.9 | 212.1 | --- | 2.604 | -9.83 | 0.560 | 62.6 | 173.7 | -16.1 | 0.305 |
| 4-1640 | 4-2200 | 0.526 | 54.3 | 55.3 | 15.40 | 1.201 | 69.9 | 0.527 | 1.719 | 60.9 | 214.2 | --- | 2.624 | -11.87 | 0.572 | 62.3 | 178.1 | -19.0 | 0.319 |
| 4-1640 | 4-2220 | 0.549 | 48.5 | 62.6 | 19.06 | 1.204 | 71.3 | 0.520 | 1.740 | 56.8 | 216.2 | --- | 2.645 | -15.22 | 0.583 | 62.1 | 183.4 | -23.4 | 0.340 |
| 4-1640 | 4-2240 | 0.622 | 27.9 | 70.4 | 25.65 | 1.207 | 72.7 | 0.514 | 1.762 | 52.7 | 218.1 | --- | 2.668 | -21.52 | 0.593 | 62.0 | 190.2 | -30.2 | 0.382 |
| 4-1640 | 4-2260 | 0.846 | 340.6 | 67.7 | 40.86 | 1.210 | 74.0 | 0.510 | 1.783 | 48.9 | 219.9 | --- | 2.692 | -36.43 | 0.602 | 61.8 | 202.6 | -39.5 | 0.495 |
| 4-1640 | 4-2300 | 0.781 | 65.5 | -50.9 | -38.07 | 1.215 | 78.5 | 0.492 | 1.826 | 35.5 | 223.3 | --- | 2.724 | 43.11 | 0.617 | 62.3 | 217.1 | 41.9 | 0.559 |
| 4-1640 | 4-2320 | 0.459 | 86.6 | -32.1 | -18.39 | 1.217 | 79.8 | 0.491 | 1.847 | 31.4 | 224.7 | --- | 2.753 | 23.73 | 0.623 | 62.1 | 210.9 | 32.0 | 0.417 |
| 4-1640 | 4-2340 | 0.342 | 96.2 | -16.7 | -10.50 | 1.220 | 81.3 | 0.489 | 1.867 | 26.6 | 226.0 | --- | 2.781 | 16.14 | 0.628 | 61.9 | 212.7 | 24.0 | 0.379 |
| 4-1640 | 4-2360 | 0.285 | 104.6 | -5.4 | -6.33 | 1.222 | 83.0 | 0.488 | 1.888 | 21.4 | 227.1 | --- | 2.810 | 12.29 | 0.632 | 61.8 | 216.6 | 18.8 | 0.369 |
| 4-1640 | 4-2380 | 0.252 | 113.8 | 3.0 | -3.74 | 1.225 | 84.8 | 0.489 | 1.908 | 15.9 | 228.0 | --- | 2.841 | 10.02 | 0.635 | 61.6 | 221.3 | 15.4 | 0.367 |
| 4-1640 | 4-2400 | 0.232 | 124.3 | 9.2 | -1.93 | 1.227 | 86.6 | 0.490 | 1.928 | 10.3 | 228.8 | --- | 2.874 | 8.54 | 0.637 | 61.4 | 226.4 | 13.0 | 0.370 |
| 4-1640 | 4-2420 | 0.222 | 136.1 | 13.3 | -0.58 | 1.229 | 88.5 | 0.493 | 1.948 | 4.5 | 229.4 | --- | 2.909 | 7.53 | 0.638 | 61.1 | 231.6 | 11.3 | 0.375 |
| 4-1640 | 4-2440 | 0.220 | 148.8 | 15.5 | 0.49 | 1.231 | 90.5 | 0.498 | 1.968 | 358.6 | 589.8 | 0.988 | 2.947 | 6.82 | 0.639 | 60.7 | 237.0 | 10.0 | 0.381 |
| 4-1650 | 4-1790 | 1.047 | 47.6 | 17.2 | -0.83 | 1.227 | 35.9 | 0.859 | 1.914 | 124.8 | 159.1 | --- | --- | -7.80 | 0.513 | 147.1 | 171.6 | -3.9 | 0.563 |
| 4-1650 | 4-1810 | 0.992 | 47.3 | 17.8 | 0.18 | 1.194 | 37.9 | 0.828 | 1.659 | 124.6 | 163.6 | --- | --- | -6.99 | 0.432 | 138.6 | 169.5 | -4.2 | 0.479 |
| 4-1650 | 4-1830 | 0.950 | 47.4 | 18.5 | 1.01 | 1.174 | 39.7 | 0.803 | 1.537 | 123.7 | 167.4 | --- | --- | -6.36 | 0.377 | 129.0 | 167.1 | -4.5 | 0.417 |
| 4-1650 | 4-1850 | 0.916 | 47.8 | 19.3 | 1.72 | 1.162 | 41.4 | 0.782 | 1.474 | 122.4 | 170.8 | --- | --- | -5.87 | 0.344 | 118.7 | 164.5 | -4.8 | 0.372 |
| 4-1650 | 4-1870 | 0.886 | 48.3 | 20.1 | 2.33 | 1.155 | 42.9 | 0.763 | 1.442 | 120.7 | 173.9 | --- | --- | -5.49 | 0.328 | 108.7 | 161.7 | -5.0 | 0.339 |
| 4-1650 | 4-1890 | 0.860 | 49.0 | 20.9 | 2.88 | 1.152 | 44.4 | 0.746 | 1.428 | 118.7 | 176.8 | --- | --- | -5.18 | 0.325 | 99.4 | 159.1 | -5.3 | 0.315 |
| 4-1650 | 4-1910 | 0.835 | 49.8 | 21.8 | 3.38 | 1.152 | 45.8 | 0.731 | 1.425 | 116.6 | 179.5 | --- | --- | -4.93 | 0.331 | 91.4 | 156.7 | -5.5 | 0.298 |
| 4-1650 | 4-1930 | 0.812 | 50.7 | 22.7 | 3.84 | 1.153 | 47.3 | 0.716 | 1.430 | 114.2 | 182.1 | --- | 2.453 | -4.74 | 0.342 | 84.8 | 154.7 | -5.6 | 0.287 |
| 4-1650 | 4-1950 | 0.789 | 51.7 | 23.6 | 4.28 | 1.155 | 48.7 | 0.702 | 1.440 | 111.6 | 184.6 | --- | 2.450 | -4.59 | 0.358 | 79.4 | 153.2 | -5.8 | 0.281 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1650 | 4-1970 | 0.768 | 52.8 | 24.6 | 4.70 | 1.157 | 50.1 | 0.688 | 1.453 | 109.0 | 187.0 | --- | 2.453 | -4.49 | 0.375 | 75.1 | 152.3 | -5.9 | 0.277 |
| 4-1650 | 4-1990 | 0.746 | 53.9 | 25.7 | 5.11 | 1.161 | 51.4 | 0.674 | 1.470 | 106.1 | 189.4 | --- | 2.461 | -4.42 | 0.394 | 71.7 | 152.1 | -6.0 | 0.276 |
| 4-1650 | 4-2010 | 0.725 | 55.1 | 26.8 | 5.52 | 1.164 | 52.8 | 0.661 | 1.488 | 103.2 | 191.8 | --- | 2.472 | -4.39 | 0.413 | 69.0 | 152.4 | -6.1 | 0.277 |
| 4-1650 | 4-2030 | 0.703 | 56.3 | 28.0 | 5.93 | 1.168 | 54.2 | 0.649 | 1.508 | 100.2 | 194.1 | --- | 2.486 | -4.40 | 0.432 | 66.9 | 153.3 | -6.3 | 0.279 |
| 4-1650 | 4-2050 | 0.682 | 57.6 | 29.3 | 6.36 | 1.172 | 55.6 | 0.636 | 1.529 | 97.0 | 196.4 | --- | 2.501 | -4.45 | 0.450 | 65.2 | 154.6 | -6.4 | 0.282 |
| 4-1650 | 4-2070 | 0.661 | 58.9 | 30.8 | 6.81 | 1.176 | 57.0 | 0.624 | 1.550 | 93.7 | 198.7 | --- | 2.518 | -4.54 | 0.468 | 63.9 | 156.5 | -6.7 | 0.286 |
| 4-1650 | 4-2090 | 0.640 | 60.3 | 32.4 | 7.29 | 1.180 | 58.4 | 0.612 | 1.573 | 90.3 | 201.0 | --- | 2.535 | -4.69 | 0.485 | 62.9 | 158.8 | -7.0 | 0.290 |
| 4-1650 | 4-2110 | 0.620 | 61.7 | 34.1 | 7.81 | 1.184 | 59.9 | 0.601 | 1.595 | 86.8 | 203.2 | --- | 2.554 | -4.90 | 0.502 | 62.1 | 161.5 | -7.4 | 0.295 |
| 4-1650 | 4-2130 | 0.600 | 63.2 | 36.1 | 8.41 | 1.187 | 61.3 | 0.590 | 1.618 | 83.2 | 205.5 | --- | 2.572 | -5.19 | 0.518 | 61.5 | 164.5 | -7.9 | 0.300 |
| 4-1650 | 4-2150 | 0.580 | 64.7 | 38.4 | 9.09 | 1.191 | 62.8 | 0.579 | 1.641 | 79.4 | 207.7 | --- | 2.592 | -5.59 | 0.533 | 61.1 | 167.8 | -8.6 | 0.305 |
| 4-1650 | 4-2170 | 0.562 | 66.2 | 41.1 | 9.91 | 1.195 | 64.2 | 0.569 | 1.665 | 75.6 | 209.8 | --- | 2.611 | -6.13 | 0.547 | 60.8 | 171.5 | -9.4 | 0.311 |
| 4-1650 | 4-2190 | 0.546 | 67.6 | 44.4 | 10.94 | 1.198 | 65.7 | 0.559 | 1.688 | 71.6 | 211.9 | --- | 2.631 | -6.89 | 0.560 | 60.7 | 175.5 | -10.6 | 0.318 |
| 4-1650 | 4-2210 | 0.534 | 68.7 | 48.5 | 12.29 | 1.201 | 67.3 | 0.550 | 1.711 | 67.4 | 214.0 | --- | 2.652 | -7.98 | 0.572 | 60.6 | 179.7 | -12.3 | 0.325 |
| 4-1650 | 4-2230 | 0.529 | 69.2 | 53.8 | 14.20 | 1.205 | 68.8 | 0.541 | 1.734 | 63.2 | 216.0 | --- | 2.672 | -9.62 | 0.583 | 60.5 | 184.3 | -14.7 | 0.335 |
| 4-1650 | 4-2250 | 0.540 | 67.4 | 60.8 | 17.17 | 1.208 | 70.3 | 0.533 | 1.757 | 58.9 | 217.9 | --- | 2.694 | -12.34 | 0.593 | 60.5 | 189.5 | -18.4 | 0.350 |
| 4-1650 | 4-2270 | 0.589 | 56.4 | 70.0 | 22.55 | 1.211 | 71.9 | 0.526 | 1.780 | 54.4 | 219.7 | --- | 2.716 | -17.46 | 0.602 | 60.6 | 195.8 | -24.6 | 0.378 |
| 4-1650 | 4-2290 | 0.764 | 2.7 | 74.5 | 35.28 | 1.214 | 73.3 | 0.520 | 1.803 | 50.2 | 221.3 | --- | 2.741 | -29.95 | 0.610 | 60.6 | 206.4 | -35.0 | 0.462 |
| 4-1650 | 4-2330 | 0.713 | 75.0 | -45.6 | -33.61 | 1.219 | 77.6 | 0.503 | 1.848 | 37.6 | 224.5 | --- | 2.777 | 39.44 | 0.623 | 61.2 | 222.4 | 39.8 | 0.542 |
| 4-1650 | 4-2350 | 0.411 | 95.8 | -23.2 | -14.38 | 1.222 | 79.1 | 0.501 | 1.870 | 33.1 | 225.8 | --- | 2.806 | 20.46 | 0.628 | 61.1 | 217.3 | 27.7 | 0.413 |
| 4-1650 | 4-2370 | 0.317 | 105.8 | -6.7 | -7.34 | 1.224 | 80.8 | 0.499 | 1.891 | 28.0 | 226.9 | --- | 2.835 | 13.68 | 0.632 | 61.1 | 219.9 | 19.9 | 0.384 |
| 4-1650 | 4-2390 | 0.274 | 114.8 | 4.4 | -3.75 | 1.227 | 82.5 | 0.497 | 1.913 | 22.6 | 227.9 | --- | 2.864 | 10.35 | 0.635 | 61.0 | 224.3 | 15.3 | 0.377 |
| 4-1650 | 4-2410 | 0.249 | 124.6 | 11.8 | -1.54 | 1.229 | 84.3 | 0.497 | 1.934 | 17.1 | 228.7 | --- | 2.898 | 8.40 | 0.637 | 60.9 | 229.3 | 12.5 | 0.377 |
| 4-1650 | 4-2430 | 0.233 | 135.7 | 16.7 | -0.03 | 1.231 | 86.2 | 0.499 | 1.955 | 11.4 | 229.3 | --- | 2.929 | 7.15 | 0.638 | 60.7 | 234.5 | 10.5 | 0.380 |
| 4-1650 | 4-2450 | 0.226 | 147.9 | 19.4 | 1.10 | 1.233 | 88.2 | 0.501 | 1.975 | 5.5 | 229.7 | --- | 2.965 | 6.30 | 0.639 | 60.5 | 239.8 | 9.1 | 0.384 |
| 4-1660 | 4-1800 | 1.163 | 51.2 | 18.5 | -0.40 | 1.206 | 27.9 | 0.906 | 1.732 | 139.2 | 165.7 | --- | --- | -7.48 | 0.458 | 151.5 | 167.5 | -2.8 | 0.579 |
| 4-1660 | 4-1820 | 1.102 | 51.6 | 19.2 | 0.79 | 1.175 | 30.5 | 0.881 | 1.540 | 137.4 | 168.6 | --- | --- | -6.45 | 0.376 | 141.8 | 165.3 | -3.0 | 0.498 |
| 4-1660 | 4-1840 | 1.054 | 52.2 | 20.0 | 1.69 | 1.158 | 32.9 | 0.858 | 1.449 | 135.4 | 171.3 | --- | --- | -5.69 | 0.323 | 130.4 | 162.9 | -3.2 | 0.439 |
| 4-1660 | 4-1860 | 1.014 | 53.0 | 20.7 | 2.42 | 1.148 | 35.0 | 0.837 | 1.403 | 133.2 | 173.9 | --- | --- | -5.12 | 0.293 | 118.1 | 160.3 | -3.3 | 0.396 |
| 4-1660 | 4-1880 | 0.979 | 53.9 | 21.5 | 3.03 | 1.143 | 36.9 | 0.818 | 1.383 | 130.8 | 176.3 | --- | --- | -4.68 | 0.283 | 106.0 | 157.8 | -3.5 | 0.365 |
| 4-1660 | 4-1900 | 0.948 | 54.9 | 22.3 | 3.54 | 1.142 | 38.8 | 0.800 | 1.377 | 128.3 | 178.7 | --- | --- | -4.33 | 0.286 | 95.3 | 155.6 | -3.6 | 0.343 |
| 4-1660 | 4-1920 | 0.919 | 56.0 | 23.1 | 4.00 | 1.143 | 40.6 | 0.782 | 1.380 | 125.7 | 181.0 | --- | 2.459 | -4.05 | 0.298 | 86.5 | 153.8 | -3.7 | 0.328 |
| 4-1660 | 4-1940 | 0.892 | 57.2 | 23.9 | 4.41 | 1.145 | 42.3 | 0.766 | 1.389 | 122.9 | 183.2 | --- | 2.453 | -3.84 | 0.316 | 79.6 | 152.4 | -3.7 | 0.318 |
| 4-1660 | 4-1960 | 0.866 | 58.4 | 24.8 | 4.78 | 1.148 | 43.9 | 0.749 | 1.403 | 120.1 | 185.5 | --- | 2.455 | -3.66 | 0.336 | 74.3 | 151.6 | -3.8 | 0.312 |
| 4-1660 | 4-1980 | 0.841 | 59.7 | 25.6 | 5.13 | 1.152 | 45.5 | 0.734 | 1.420 | 117.1 | 187.7 | --- | 2.463 | -3.53 | 0.358 | 70.2 | 151.3 | -3.9 | 0.308 |
| 4-1660 | 4-2000 | 0.816 | 61.0 | 26.6 | 5.47 | 1.156 | 47.1 | 0.719 | 1.440 | 114.1 | 189.9 | --- | 2.474 | -3.44 | 0.380 | 67.1 | 151.6 | -3.9 | 0.307 |
| 4-1660 | 4-2020 | 0.792 | 62.4 | 27.5 | 5.79 | 1.160 | 48.7 | 0.704 | 1.461 | 110.9 | 192.1 | --- | 2.488 | -3.37 | 0.402 | 64.7 | 152.4 | -4.0 | 0.307 |
| 4-1660 | 4-2040 | 0.767 | 63.8 | 28.5 | 6.11 | 1.165 | 50.3 | 0.689 | 1.483 | 107.7 | 194.3 | --- | 2.505 | -3.34 | 0.423 | 62.9 | 153.8 | -4.1 | 0.309 |
| 4-1660 | 4-2060 | 0.743 | 65.3 | 29.6 | 6.43 | 1.169 | 51.9 | 0.675 | 1.506 | 104.3 | 196.5 | --- | 2.522 | -3.33 | 0.443 | 61.5 | 155.5 | -4.2 | 0.311 |
| 4-1660 | 4-2080 | 0.719 | 66.8 | 30.7 | 6.76 | 1.173 | 53.4 | 0.661 | 1.530 | 100.9 | 198.7 | --- | 2.541 | -3.36 | 0.463 | 60.5 | 157.7 | -4.3 | 0.314 |
| 4-1660 | 4-2100 | 0.696 | 68.4 | 32.0 | 7.11 | 1.178 | 55.0 | 0.647 | 1.554 | 97.4 | 200.8 | --- | 2.560 | -3.43 | 0.481 | 59.8 | 160.3 | -4.5 | 0.317 |
| 4-1660 | 4-2120 | 0.672 | 70.1 | 33.3 | 7.48 | 1.182 | 56.6 | 0.634 | 1.579 | 93.7 | 203.0 | --- | 2.579 | -3.53 | 0.499 | 59.2 | 163.2 | -4.7 | 0.320 |
| 4-1660 | 4-2140 | 0.648 | 71.8 | 34.8 | 7.88 | 1.186 | 58.2 | 0.621 | 1.603 | 90.0 | 205.2 | --- | 2.599 | -3.68 | 0.516 | 58.9 | 166.4 | -5.0 | 0.324 |
| 4-1660 | 4-2160 | 0.625 | 73.7 | 36.5 | 8.33 | 1.190 | 59.7 | 0.609 | 1.628 | 86.1 | 207.3 | --- | 2.619 | -3.89 | 0.531 | 58.7 | 169.9 | -5.4 | 0.328 |
| 4-1660 | 4-2180 | 0.602 | 75.6 | 38.4 | 8.85 | 1.194 | 61.3 | 0.597 | 1.653 | 82.2 | 209.5 | --- | 2.639 | -4.19 | 0.546 | 58.6 | 173.7 | -5.9 | 0.332 |
| 4-1660 | 4-2200 | 0.581 | 77.6 | 40.6 | 9.47 | 1.198 | 62.9 | 0.585 | 1.678 | 78.1 | 211.6 | --- | 2.660 | -4.59 | 0.559 | 58.6 | 177.7 | -6.5 | 0.336 |
| 4-1660 | 4-2220 | 0.560 | 79.8 | 43.3 | 10.25 | 1.201 | 64.6 | 0.574 | 1.703 | 73.9 | 213.6 | --- | 2.680 | -5.15 | 0.572 | 58.7 | 182.0 | -7.4 | 0.341 |
| 4-1660 | 4-2240 | 0.543 | 81.9 | 46.7 | 11.26 | 1.205 | 66.2 | 0.564 | 1.728 | 69.5 | 215.6 | --- | 2.701 | -5.97 | 0.583 | 58.8 | 186.5 | -8.6 | 0.346 |
| 4-1660 | 4-2260 | 0.530 | 84.0 | 51.0 | 12.69 | 1.208 | 67.8 | 0.554 | 1.752 | 65.1 | 217.5 | --- | 2.722 | -7.20 | 0.593 | 59.0 | 191.2 | -10.4 | 0.352 |
| 4-1660 | 4-2280 | 0.528 | 85.4 | 57.0 | 14.91 | 1.212 | 69.5 | 0.545 | 1.776 | 60.5 | 219.3 | --- | 2.744 | -9.22 | 0.602 | 59.2 | 196.3 | -13.3 | 0.361 |
| 4-1660 | 4-2300 | 0.552 | 83.8 | 66.0 | 18.95 | 1.215 | 71.2 | 0.537 | 1.800 | 55.8 | 221.0 | --- | 2.767 | -13.07 | 0.610 | 59.4 | 202.1 | -18.3 | 0.378 |
| 4-1660 | 4-2320 | 0.669 | 52.4 | 78.4 | 28.73 | 1.218 | 72.8 | 0.530 | 1.824 | 51.2 | 222.5 | --- | 2.791 | -22.65 | 0.617 | 59.6 | 210.6 | -28.4 | 0.430 |
| 4-1660 | 4-2360 | 0.617 | 87.1 | -38.7 | -27.22 | 1.223 | 76.9 | 0.514 | 1.871 | 39.4 | 225.4 | --- | 2.833 | 33.67 | 0.628 | 60.2 | 226.8 | 36.3 | 0.510 |
| 4-1660 | 4-2380 | 0.364 | 107.0 | -11.2 | -9.62 | 1.226 | 78.5 | 0.511 | 1.894 | 34.6 | 226.5 | --- | 2.861 | 18.26 | 0.632 | 60.2 | 223.7 | 22.2 | 0.406 |
| 4-1660 | 4-2400 | 0.300 | 117.1 | 5.2 | -3.84 | 1.228 | 80.2 | 0.508 | 1.916 | 29.3 | 227.5 | --- | 2.890 | 10.68 | 0.634 | 60.3 | 227.4 | 15.3 | 0.388 |
| 4-1660 | 4-2420 | 0.271 | 126.5 | 14.6 | -0.99 | 1.231 | 82.1 | 0.506 | 1.938 | 23.8 | 228.4 | --- | 2.920 | 8.02 | 0.636 | 60.3 | 232.2 | 11.6 | 0.384 |
| 4-1660 | 4-2440 | 0.252 | 136.8 | 20.3 | 0.74 | 1.233 | 83.9 | 0.506 | 1.960 | 18.1 | 229.0 | --- | 2.952 | 6.49 | 0.638 | 60.2 | 237.3 | 9.3 | 0.385 |
| 4-1660 | 4-2460 | 0.240 | 148.1 | 23.4 | 1.91 | 1.235 | 85.9 | 0.507 | 1.982 | 12.4 | 229.6 | --- | 2.986 | 5.51 | 0.638 | 60.1 | 242.6 | 7.9 | 0.388 |
| 4-1670 | 4-1810 | 1.280 | 55.6 | 19.8 | 0.36 | 1.189 | 19.8 | 0.950 | 1.613 | 152.2 | 170.9 | --- | --- | -6.79 | 0.411 | 157.7 | 164.2 | -1.7 | 0.609 |
| 4-1670 | 4-1830 | 1.211 | 56.5 | 20.5 | 1.77 | 1.160 | 23.0 | 0.929 | 1.456 | 149.1 | 172.5 | --- | --- | -5.48 | 0.325 | 147.0 | 161.9 | -1.8 | 0.529 |
| 4-1670 | 4-1850 | 1.156 | 57.5 | 21.3 | 2.73 | 1.144 | 25.9 | 0.908 | 1.382 | 146.1 | 174.2 | --- | --- | -4.61 | 0.270 | 133.5 | 159.6 | -1.9 | 0.471 |
| 4-1670 | 4-1870 | 1.111 | 58.7 | 22.0 | 3.44 | 1.136 | 28.5 | 0.888 | 1.347 | 143.2 | 176.1 | --- | --- | -3.99 | 0.242 | 118.1 | 157.3 | -2.0 | 0.430 |
| 4-1670 | 4-1890 | 1.071 | 59.9 | 22.8 | 3.99 | 1.133 | 30.9 | 0.869 | 1.334 | 140.2 | 178.0 | --- | --- | -3.54 | 0.236 | 103.1 | 155.2 | -2.0 | 0.399 |
| 4-1670 | 4-1910 | 1.035 | 61.2 | 23.5 | 4.44 | 1.133 | 33.1 | 0.850 | 1.333 | 137.2 | 179.9 | --- | --- | -3.20 | 0.247 | 90.5 | 153.4 | -2.1 | 0.378 |
| 4-1670 | 4-1930 | 1.003 | 62.6 | 24.2 | 4.82 | 1.134 | 35.2 | 0.832 | 1.341 | 134.2 | 181.9 | --- | 2.456 | -2.93 | 0.266 | 80.9 | 152.1 | -2.1 | 0.363 |
| 4-1670 | 4-1950 | 0.972 | 64.0 | 25.0 | 5.14 | 1.138 | 37.2 | 0.814 | 1.354 | 131.1 | 183.9 | --- | 2.456 | -2.72 | 0.290 | 73.8 | 151.3 | -2.1 | 0.353 |
| 4-1670 | 4-1970 | 0.942 | 65.4 | 25.7 | 5.43 | 1.142 | 39.1 | 0.796 | 1.371 | 128.0 | 185.9 | --- | 2.462 | -2.56 | 0.315 | 68.6 | 151.0 | -2.2 | 0.347 |
| 4-1670 | 4-1990 | 0.914 | 66.9 | 26.5 | 5.69 | 1.146 | 40.9 | 0.779 | 1.390 | 124.8 | 187.9 | --- | 2.474 | -2.43 | 0.341 | 64.9 | 151.3 | -2.2 | 0.343 |
| 4-1670 | 4-2010 | 0.886 | 68.4 | 27.2 | 5.94 | 1.151 | 42.8 | 0.762 | 1.412 | 121.6 | 189.9 | --- | 2.488 | -2.33 | 0.366 | 62.1 | 152.0 | -2.2 | 0.341 |
| 4-1670 | 4-2030 | 0.859 | 70.0 | 28.0 | 6.16 | 1.156 | 44.6 | 0.746 | 1.435 | 118.2 | 192.0 | --- | 2.506 | -2.26 | 0.391 | 60.1 | 153.2 | -2.2 | 0.340 |
| 4-1670 | 4-2050 | 0.832 | 71.6 | 28.9 | 6.38 | 1.161 | 46.3 | 0.730 | 1.459 | 114.8 | 194.1 | --- | 2.524 | -2.21 | 0.414 | 58.7 | 154.9 | -2.3 | 0.341 |
| 4-1670 | 4-2070 | 0.805 | 73.2 | 29.7 | 6.60 | 1.166 | 48.1 | 0.714 | 1.484 | 111.4 | 196.2 | --- | 2.544 | -2.18 | 0.436 | 57.7 | 157.0 | -2.3 | 0.342 |
| 4-1670 | 4-2090 | 0.778 | 74.9 | 30.6 | 6.82 | 1.171 | 49.8 | 0.698 | 1.510 | 107.8 | 198.3 | --- | 2.564 | -2.17 | 0.457 | 56.9 | 159.5 | -2.4 | 0.344 |
| 4-1670 | 4-2110 | 0.752 | 76.7 | 31.5 | 7.03 | 1.175 | 51.5 | 0.683 | 1.536 | 104.2 | 200.4 | --- | 2.585 | -2.18 | 0.477 | 56.5 | 162.2 | -2.5 | 0.346 |
| 4-1670 | 4-2130 | 0.725 | 78.5 | 32.5 | 7.26 | 1.180 | 53.2 | 0.668 | 1.562 | 100.4 | 202.6 | --- | 2.605 | -2.22 | 0.496 | 56.2 | 165.3 | -2.6 | 0.348 |
| 4-1670 | 4-2150 | 0.699 | 80.5 | 33.6 | 7.51 | 1.185 | 54.9 | 0.653 | 1.588 | 96.6 | 204.7 | --- | 2.626 | -2.28 | 0.513 | 56.1 | 168.7 | -2.8 | 0.350 |
| 4-1670 | 4-2170 | 0.673 | 82.5 | 34.8 | 7.77 | 1.189 | 56.6 | 0.639 | 1.615 | 92.7 | 206.8 | --- | 2.647 | -2.38 | 0.529 | 56.1 | 172.4 | -3.0 | 0.353 |
| 4-1670 | 4-2190 | 0.646 | 84.7 | 36.1 | 8.06 | 1.193 | 58.4 | 0.626 | 1.641 | 88.6 | 208.9 | --- | 2.668 | -2.51 | 0.545 | 56.2 | 176.3 | -3.2 | 0.356 |
| 4-1670 | 4-2210 | 0.621 | 86.9 | 37.6 | 8.40 | 1.197 | 60.1 | 0.612 | 1.668 | 84.5 | 211.0 | --- | 2.689 | -2.70 | 0.558 | 56.4 | 180.4 | -3.5 | 0.358 |
| 4-1670 | 4-2230 | 0.595 | 89.4 | 39.2 | 8.81 | 1.201 | 61.8 | 0.600 | 1.694 | 80.2 | 213.0 | --- | 2.710 | -2.96 | 0.571 | 56.7 | 184.7 | -3.9 | 0.361 |
| 4-1670 | 4-2250 | 0.571 | 92.0 | 41.2 | 9.31 | 1.205 | 63.5 | 0.588 | 1.720 | 75.8 | 215.0 | --- | 2.731 | -3.32 | 0.583 | 57.0 | 189.1 | -4.5 | 0.364 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1670 | 4-2270 | 0.548 | 94.9 | 43.7 | 9.96 | 1.208 | 65.3 | 0.576 | 1.746 | 71.3 | 216.9 | --- | 2.752 | -3.84 | 0.593 | 57.3 | 193.8 | -5.2 | 0.367 |
| 4-1670 | 4-2290 | 0.528 | 98.0 | 46.8 | 10.88 | 1.212 | 67.0 | 0.566 | 1.772 | 66.6 | 218.7 | --- | 2.774 | -4.63 | 0.602 | 57.7 | 198.6 | -6.4 | 0.370 |
| 4-1670 | 4-2310 | 0.514 | 101.3 | 51.2 | 12.31 | 1.215 | 68.8 | 0.556 | 1.797 | 61.9 | 220.4 | --- | 2.798 | -5.92 | 0.610 | 58.0 | 203.7 | -8.2 | 0.375 |
| 4-1670 | 4-2330 | 0.514 | 104.6 | 58.0 | 14.90 | 1.218 | 70.5 | 0.547 | 1.822 | 57.0 | 222.0 | --- | 2.819 | -8.38 | 0.617 | 58.3 | 209.1 | -11.5 | 0.383 |
| 4-1670 | 4-2350 | 0.569 | 104.0 | 70.9 | 21.23 | 1.221 | 72.3 | 0.539 | 1.847 | 52.1 | 223.5 | --- | 2.843 | -14.59 | 0.623 | 58.6 | 215.7 | -19.3 | 0.406 |
| 4-1670 | 4-2370 | 1.098 | 346.4 | 69.0 | 56.24 | 1.224 | 73.8 | 0.534 | 1.871 | 47.6 | 224.7 | --- | 2.870 | -49.48 | 0.627 | 58.8 | 238.4 | -39.6 | 0.640 |
| 4-1670 | 4-2390 | 0.491 | 102.8 | -26.8 | -18.24 | 1.227 | 76.2 | 0.525 | 1.895 | 40.9 | 226.0 | --- | 2.889 | 25.12 | 0.631 | 59.3 | 230.4 | 29.7 | 0.465 |
| 4-1670 | 4-2410 | 0.331 | 120.4 | 5.0 | -4.14 | 1.230 | 77.9 | 0.520 | 1.919 | 35.8 | 227.1 | --- | 2.917 | 11.14 | 0.634 | 59.4 | 230.5 | 15.3 | 0.400 |
| 4-1670 | 4-2430 | 0.297 | 130.1 | 18.1 | -0.05 | 1.232 | 79.8 | 0.517 | 1.942 | 30.4 | 228.0 | --- | 2.948 | 7.18 | 0.636 | 59.6 | 235.0 | 10.1 | 0.392 |
| 4-1670 | 4-2450 | 0.278 | 139.6 | 24.5 | 1.90 | 1.234 | 81.6 | 0.515 | 1.965 | 24.8 | 228.7 | --- | 2.977 | 5.35 | 0.637 | 59.6 | 240.2 | 7.5 | 0.391 |
| 4-1670 | 4-2470 | 0.264 | 149.9 | 27.7 | 3.06 | 1.237 | 83.5 | 0.514 | 1.987 | 19.1 | 229.2 | --- | 3.009 | 4.32 | 0.637 | 59.6 | 245.4 | 6.0 | 0.393 |
| 4-1680 | 4-1820 | 1.395 | 60.5 | 21.0 | 2.17 | 1.177 | 11.5 | 0.983 | 1.539 | 164.3 | 175.1 | --- | --- | -4.99 | 0.376 | 165.9 | 161.7 | -0.7 | 0.650 |
| 4-1680 | 4-1840 | 1.318 | 61.8 | 21.8 | 3.71 | 1.148 | 15.4 | 0.967 | 1.398 | 159.9 | 175.5 | --- | --- | -3.49 | 0.281 | 155.0 | 159.5 | -0.7 | 0.569 |
| 4-1680 | 4-1860 | 1.257 | 63.3 | 22.5 | 4.55 | 1.133 | 18.8 | 0.950 | 1.333 | 156.1 | 176.4 | --- | --- | -2.69 | 0.220 | 139.3 | 157.4 | -0.8 | 0.512 |
| 4-1680 | 4-1880 | 1.206 | 64.8 | 23.2 | 5.08 | 1.126 | 21.9 | 0.932 | 1.304 | 152.5 | 177.6 | --- | --- | -2.20 | 0.190 | 119.6 | 155.4 | -0.8 | 0.470 |
| 4-1680 | 4-1900 | 1.162 | 66.3 | 23.9 | 5.46 | 1.123 | 24.7 | 0.914 | 1.295 | 149.0 | 179.0 | --- | --- | -1.87 | 0.189 | 100.0 | 153.7 | -0.8 | 0.440 |
| 4-1680 | 4-1920 | 1.122 | 67.9 | 24.5 | 5.74 | 1.124 | 27.3 | 0.896 | 1.297 | 145.6 | 180.6 | --- | 2.459 | -1.63 | 0.207 | 84.7 | 152.4 | -0.8 | 0.418 |
| 4-1680 | 4-1940 | 1.085 | 69.5 | 25.2 | 5.96 | 1.127 | 29.7 | 0.877 | 1.307 | 142.3 | 182.3 | --- | 2.455 | -1.45 | 0.224 | 74.1 | 151.6 | -0.8 | 0.403 |
| 4-1680 | 4-1960 | 1.051 | 71.1 | 25.8 | 6.14 | 1.130 | 32.0 | 0.859 | 1.323 | 138.9 | 184.0 | --- | 2.459 | -1.32 | 0.264 | 67.0 | 151.2 | -0.8 | 0.392 |
| 4-1680 | 4-1980 | 1.018 | 72.7 | 26.5 | 6.30 | 1.135 | 34.2 | 0.841 | 1.342 | 135.6 | 185.9 | --- | 2.470 | -1.21 | 0.295 | 62.3 | 151.4 | -0.8 | 0.385 |
| 4-1680 | 4-2000 | 0.987 | 74.4 | 27.1 | 6.43 | 1.140 | 36.3 | 0.823 | 1.363 | 132.2 | 187.7 | --- | 2.485 | -1.13 | 0.325 | 59.0 | 152.0 | -0.8 | 0.380 |
| 4-1680 | 4-2020 | 0.956 | 76.1 | 27.7 | 6.55 | 1.146 | 38.3 | 0.805 | 1.387 | 128.7 | 189.7 | --- | 2.503 | -1.07 | 0.353 | 56.8 | 153.1 | -0.8 | 0.377 |
| 4-1680 | 4-2040 | 0.926 | 77.8 | 28.3 | 6.66 | 1.151 | 40.3 | 0.787 | 1.411 | 125.3 | 191.6 | --- | 2.522 | -1.02 | 0.380 | 55.3 | 154.7 | -0.8 | 0.376 |
| 4-1680 | 4-2060 | 0.896 | 79.5 | 29.0 | 6.77 | 1.157 | 42.3 | 0.770 | 1.437 | 121.7 | 193.6 | --- | 2.543 | -0.98 | 0.406 | 54.2 | 156.6 | -0.9 | 0.375 |
| 4-1680 | 4-2080 | 0.867 | 81.3 | 29.6 | 6.86 | 1.162 | 44.2 | 0.753 | 1.463 | 118.1 | 195.7 | --- | 2.565 | -0.96 | 0.430 | 53.6 | 159.0 | -0.9 | 0.375 |
| 4-1680 | 4-2100 | 0.838 | 83.2 | 30.3 | 6.96 | 1.167 | 46.1 | 0.736 | 1.490 | 114.5 | 197.7 | --- | 2.587 | -0.94 | 0.452 | 53.2 | 161.6 | -0.9 | 0.376 |
| 4-1680 | 4-2120 | 0.809 | 85.1 | 31.0 | 7.06 | 1.173 | 48.0 | 0.719 | 1.518 | 110.7 | 199.8 | --- | 2.609 | -0.93 | 0.473 | 53.0 | 164.6 | -0.9 | 0.377 |
| 4-1680 | 4-2140 | 0.780 | 87.0 | 31.7 | 7.15 | 1.178 | 49.8 | 0.703 | 1.546 | 106.9 | 201.9 | --- | 2.631 | -0.94 | 0.492 | 53.0 | 167.8 | -1.0 | 0.378 |
| 4-1680 | 4-2160 | 0.751 | 89.1 | 32.4 | 7.25 | 1.183 | 51.7 | 0.686 | 1.573 | 103.0 | 204.0 | --- | 2.653 | -0.95 | 0.511 | 53.2 | 171.4 | -1.0 | 0.379 |
| 4-1680 | 4-2180 | 0.722 | 91.2 | 33.2 | 7.36 | 1.187 | 53.5 | 0.671 | 1.601 | 99.0 | 206.1 | --- | 2.675 | -0.98 | 0.528 | 53.4 | 175.1 | -1.1 | 0.380 |
| 4-1680 | 4-2200 | 0.693 | 93.5 | 34.0 | 7.47 | 1.192 | 55.3 | 0.656 | 1.629 | 94.8 | 208.2 | --- | 2.697 | -1.02 | 0.543 | 53.7 | 179.1 | -1.2 | 0.382 |
| 4-1680 | 4-2220 | 0.664 | 95.8 | 34.9 | 7.60 | 1.196 | 57.2 | 0.641 | 1.657 | 90.6 | 210.2 | --- | 2.719 | -1.07 | 0.557 | 54.1 | 183.3 | -1.3 | 0.383 |
| 4-1680 | 4-2240 | 0.635 | 98.4 | 35.8 | 7.75 | 1.200 | 59.0 | 0.627 | 1.685 | 86.3 | 212.2 | --- | 2.740 | -1.15 | 0.570 | 54.6 | 187.6 | -1.4 | 0.384 |
| 4-1680 | 4-2260 | 0.607 | 101.1 | 36.9 | 7.92 | 1.204 | 60.8 | 0.613 | 1.712 | 81.9 | 214.2 | --- | 2.762 | -1.26 | 0.582 | 55.0 | 192.1 | -1.6 | 0.385 |
| 4-1680 | 4-2280 | 0.579 | 104.0 | 38.1 | 8.14 | 1.208 | 62.6 | 0.600 | 1.739 | 77.3 | 216.1 | --- | 2.783 | -1.42 | 0.592 | 55.5 | 196.8 | -1.8 | 0.387 |
| 4-1680 | 4-2300 | 0.552 | 107.1 | 39.5 | 8.42 | 1.212 | 64.5 | 0.588 | 1.766 | 72.7 | 217.9 | --- | 2.805 | -1.64 | 0.602 | 56.0 | 201.6 | -2.1 | 0.388 |
| 4-1680 | 4-2320 | 0.525 | 110.6 | 41.2 | 8.81 | 1.215 | 66.3 | 0.577 | 1.793 | 67.9 | 219.6 | --- | 2.827 | -1.97 | 0.609 | 56.5 | 206.5 | -2.6 | 0.389 |
| 4-1680 | 4-2340 | 0.501 | 114.6 | 43.5 | 9.41 | 1.218 | 68.1 | 0.566 | 1.819 | 63.0 | 221.3 | --- | 2.850 | -2.52 | 0.616 | 57.0 | 211.6 | -3.3 | 0.391 |
| 4-1680 | 4-2360 | 0.482 | 119.1 | 47.0 | 10.50 | 1.221 | 70.0 | 0.557 | 1.845 | 58.0 | 222.8 | --- | 2.873 | -3.55 | 0.622 | 57.4 | 216.7 | -4.7 | 0.393 |
| 4-1680 | 4-2380 | 0.480 | 124.6 | 54.0 | 13.13 | 1.225 | 71.8 | 0.548 | 1.871 | 52.9 | 224.1 | --- | 2.897 | -6.13 | 0.627 | 57.8 | 222.2 | -8.2 | 0.397 |
| 4-1680 | 4-2400 | 0.677 | 119.6 | 81.7 | 29.53 | 1.227 | 73.6 | 0.541 | 1.896 | 47.8 | 225.4 | --- | 2.922 | -22.48 | 0.630 | 58.1 | 232.1 | -26.4 | 0.460 |
| 4-1680 | 4-2420 | 0.370 | 123.5 | 1.3 | -5.55 | 1.230 | 75.6 | 0.534 | 1.921 | 42.2 | 226.5 | --- | 2.947 | 12.65 | 0.633 | 58.5 | 234.0 | 16.5 | 0.417 |
| 4-1680 | 4-2440 | 0.330 | 136.0 | 24.6 | 2.06 | 1.233 | 77.4 | 0.529 | 1.945 | 36.8 | 227.4 | --- | 2.975 | 5.10 | 0.634 | 58.7 | 237.9 | 6.9 | 0.399 |
| 4-1680 | 4-2460 | 0.313 | 144.7 | 30.6 | 3.99 | 1.235 | 79.3 | 0.526 | 1.969 | 31.3 | 228.2 | --- | 3.004 | 3.22 | 0.635 | 58.9 | 243.0 | 4.4 | 0.398 |
| 4-1680 | 4-2480 | 0.296 | 153.6 | 33.0 | 4.88 | 1.238 | 81.2 | 0.523 | 1.992 | 25.7 | 228.8 | --- | 3.035 | 2.38 | 0.636 | 59.0 | 248.3 | 3.3 | 0.399 |
| 4-1690 | 4-1850 | 1.422 | 67.6 | 22.9 | 9.53 | 1.140 | 7.7 | 0.992 | 1.362 | 170.1 | 177.9 | --- | --- | 2.43 | 0.250 | 166.1 | 158.2 | 0.2 | 0.617 |
| 4-1690 | 4-1870 | 1.355 | 69.4 | 23.5 | 8.60 | 1.124 | 11.7 | 0.980 | 1.299 | 165.4 | 178.0 | --- | --- | 1.51 | 0.177 | 149.5 | 168.3 | 0.2 | 0.558 |
| 4-1690 | 4-1890 | 1.299 | 71.2 | 24.2 | 8.17 | 1.117 | 15.2 | 0.967 | 1.272 | 161.2 | 178.7 | --- | --- | 1.10 | 0.140 | 123.8 | 154.7 | 0.2 | 0.515 |
| 4-1690 | 4-1910 | 1.250 | 73.0 | 24.8 | 7.92 | 1.115 | 18.5 | 0.951 | 1.264 | 157.3 | 179.7 | --- | --- | 0.88 | 0.142 | 96.3 | 153.3 | 0.3 | 0.484 |
| 4-1690 | 4-1930 | 1.206 | 74.9 | 25.3 | 7.76 | 1.116 | 21.4 | 0.935 | 1.268 | 153.5 | 180.9 | --- | 2.454 | 0.71 | 0.168 | 77.1 | 152.4 | 0.3 | 0.462 |
| 4-1690 | 4-1950 | 1.166 | 76.7 | 25.9 | 7.64 | 1.119 | 24.2 | 0.917 | 1.280 | 149.9 | 182.3 | --- | 2.454 | 0.61 | 0.203 | 65.8 | 151.9 | 0.3 | 0.445 |
| 4-1690 | 4-1970 | 1.129 | 78.5 | 26.4 | 7.55 | 1.124 | 26.8 | 0.900 | 1.297 | 146.3 | 183.9 | --- | 2.463 | 0.54 | 0.240 | 59.2 | 152.0 | 0.3 | 0.434 |
| 4-1690 | 4-1990 | 1.093 | 80.3 | 26.9 | 7.48 | 1.129 | 29.2 | 0.882 | 1.317 | 142.7 | 185.5 | --- | 2.477 | 0.48 | 0.276 | 55.2 | 152.5 | 0.3 | 0.425 |
| 4-1690 | 4-2010 | 1.059 | 82.1 | 27.4 | 7.42 | 1.135 | 31.6 | 0.863 | 1.339 | 139.2 | 187.3 | --- | 2.495 | 0.44 | 0.309 | 52.7 | 153.4 | 0.3 | 0.419 |
| 4-1690 | 4-2030 | 1.025 | 84.0 | 27.9 | 7.37 | 1.140 | 33.8 | 0.845 | 1.364 | 135.6 | 189.1 | --- | 2.516 | 0.41 | 0.341 | 51.1 | 154.8 | 0.3 | 0.415 |
| 4-1690 | 4-2050 | 0.993 | 85.8 | 28.4 | 7.32 | 1.146 | 36.0 | 0.827 | 1.389 | 132.0 | 191.0 | --- | 2.538 | 0.38 | 0.370 | 50.1 | 156.6 | 0.3 | 0.413 |
| 4-1690 | 4-2070 | 0.961 | 87.7 | 28.8 | 7.28 | 1.152 | 38.2 | 0.809 | 1.416 | 128.3 | 192.9 | --- | 2.562 | 0.36 | 0.398 | 49.5 | 158.8 | 0.3 | 0.411 |
| 4-1690 | 4-2090 | 0.929 | 89.6 | 29.3 | 7.24 | 1.158 | 40.3 | 0.790 | 1.444 | 124.6 | 194.9 | --- | 2.585 | 0.35 | 0.423 | 49.3 | 161.3 | 0.3 | 0.410 |
| 4-1690 | 4-2110 | 0.897 | 91.5 | 29.7 | 7.21 | 1.164 | 42.3 | 0.772 | 1.472 | 120.8 | 196.9 | --- | 2.609 | 0.34 | 0.447 | 49.3 | 164.1 | 0.3 | 0.409 |
| 4-1690 | 4-2130 | 0.866 | 93.5 | 30.2 | 7.17 | 1.169 | 44.4 | 0.755 | 1.501 | 117.0 | 198.9 | --- | 2.633 | 0.33 | 0.469 | 49.4 | 167.2 | 0.3 | 0.409 |
| 4-1690 | 4-2150 | 0.835 | 95.6 | 30.6 | 7.14 | 1.175 | 46.4 | 0.737 | 1.530 | 113.1 | 201.0 | --- | 2.657 | 0.33 | 0.489 | 49.7 | 170.6 | 0.3 | 0.409 |
| 4-1690 | 4-2170 | 0.803 | 97.7 | 31.1 | 7.10 | 1.180 | 48.3 | 0.720 | 1.559 | 109.1 | 203.1 | --- | 2.680 | 0.33 | 0.508 | 50.1 | 174.3 | 0.3 | 0.409 |
| 4-1690 | 4-2190 | 0.772 | 99.8 | 31.5 | 7.07 | 1.185 | 50.3 | 0.703 | 1.588 | 105.1 | 205.2 | --- | 2.703 | 0.33 | 0.525 | 50.6 | 178.1 | 0.3 | 0.409 |
| 4-1690 | 4-2210 | 0.741 | 102.1 | 31.9 | 7.03 | 1.190 | 52.3 | 0.686 | 1.617 | 100.9 | 207.2 | --- | 2.726 | 0.34 | 0.541 | 51.2 | 182.2 | 0.4 | 0.409 |
| 4-1690 | 4-2230 | 0.710 | 104.5 | 32.4 | 6.99 | 1.194 | 54.2 | 0.670 | 1.646 | 96.7 | 209.3 | --- | 2.749 | 0.36 | 0.556 | 51.7 | 186.4 | 0.4 | 0.409 |
| 4-1690 | 4-2250 | 0.678 | 107.0 | 32.8 | 6.94 | 1.199 | 56.1 | 0.654 | 1.675 | 92.3 | 211.3 | --- | 2.771 | 0.38 | 0.569 | 52.4 | 190.8 | 0.4 | 0.409 |
| 4-1690 | 4-2270 | 0.647 | 109.6 | 33.2 | 6.89 | 1.203 | 58.0 | 0.639 | 1.704 | 87.8 | 213.3 | --- | 2.793 | 0.40 | 0.581 | 53.0 | 195.4 | 0.5 | 0.409 |
| 4-1690 | 4-2290 | 0.616 | 112.3 | 33.6 | 6.83 | 1.207 | 59.9 | 0.625 | 1.732 | 83.3 | 215.2 | --- | 2.815 | 0.44 | 0.591 | 53.6 | 200.1 | 0.5 | 0.409 |
| 4-1690 | 4-2310 | 0.585 | 115.3 | 34.0 | 6.75 | 1.211 | 61.8 | 0.612 | 1.760 | 78.6 | 217.0 | --- | 2.837 | 0.49 | 0.601 | 54.3 | 204.9 | 0.6 | 0.409 |
| 4-1690 | 4-2330 | 0.554 | 118.4 | 34.3 | 6.66 | 1.214 | 63.7 | 0.599 | 1.788 | 73.9 | 218.8 | --- | 2.859 | 0.57 | 0.608 | 54.9 | 209.8 | 0.7 | 0.409 |
| 4-1690 | 4-2350 | 0.523 | 121.8 | 34.5 | 6.52 | 1.218 | 65.6 | 0.587 | 1.816 | 69.0 | 220.4 | --- | 2.882 | 0.69 | 0.615 | 55.5 | 214.8 | 0.9 | 0.408 |
| 4-1690 | 4-2370 | 0.493 | 125.5 | 34.5 | 6.31 | 1.221 | 67.5 | 0.576 | 1.843 | 64.0 | 221.9 | --- | 2.904 | 0.87 | 0.621 | 56.0 | 219.9 | 1.1 | 0.408 |
| 4-1690 | 4-2390 | 0.462 | 129.3 | 34.0 | 5.95 | 1.224 | 69.4 | 0.566 | 1.870 | 58.9 | 223.3 | --- | 2.928 | 1.22 | 0.625 | 56.6 | 225.1 | 1.6 | 0.408 |
| 4-1690 | 4-2410 | 0.429 | 133.2 | 32.0 | 5.09 | 1.227 | 71.3 | 0.557 | 1.896 | 53.7 | 224.6 | --- | 2.953 | 2.06 | 0.629 | 57.0 | 230.3 | 2.7 | 0.408 |
| 4-1690 | 4-2430 | 0.389 | 134.1 | 18.3 | 0.33 | 1.230 | 73.2 | 0.550 | 1.922 | 48.5 | 225.7 | --- | 2.978 | 6.80 | 0.631 | 57.4 | 236.0 | 8.8 | 0.413 |
| 4-1690 | 4-2450 | 0.432 | 149.7 | 51.4 | 12.36 | 1.233 | 75.1 | 0.543 | 1.947 | 43.1 | 226.7 | --- | 3.005 | -5.25 | 0.633 | 57.8 | 241.0 | -6.9 | 0.411 |
| 4-1690 | 4-2470 | 0.376 | 153.6 | 43.3 | 9.02 | 1.236 | 77.0 | 0.538 | 1.972 | 37.7 | 227.5 | --- | 3.033 | -1.92 | 0.634 | 58.1 | 246.1 | -2.5 | 0.407 |
| 4-1690 | 4-2490 | 0.348 | 160.2 | 41.2 | 8.27 | 1.238 | 78.9 | 0.534 | 1.996 | 32.2 | 228.2 | --- | 3.062 | -1.19 | 0.634 | 58.3 | 251.3 | -1.6 | 0.407 |
| 4-1700 | 4-1880 | 1.450 | 75.8 | 24.4 | 24.79 | 1.119 | 4.8 | 0.997 | 1.280 | 174.1 | 179.2 | --- | --- | 17.90 | 0.148 | 165.5 | 156.2 | 1.1 | 0.609 |
| 4-1700 | 4-1900 | 1.389 | 77.9 | 24.9 | 16.03 | 1.111 | 8.7 | 0.989 | 1.251 | 169.4 | 179.4 | --- | --- | 9.21 | 0.094 | 134.8 | 154.8 | 1.1 | 0.564 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1700 | 4-1920 | 1.336 | 80.0 | 25.4 | 12.93 | 1.108 | 12.3 | 0.978 | 1.243 | 165.1 | 180.0 | --- | --- | 6.18 | 0.094 | 91.2 | 153.8 | 1.1 | 0.532 |
| 4-1700 | 4-1940 | 1.289 | 82.1 | 25.9 | 11.34 | 1.109 | 15.6 | 0.965 | 1.246 | 161.1 | 180.9 | --- | 2.449 | 4.66 | 0.131 | 66.3 | 153.2 | 1.1 | 0.508 |
| 4-1700 | 4-1960 | 1.245 | 84.1 | 26.3 | 10.36 | 1.113 | 18.6 | 0.950 | 1.258 | 157.2 | 182.1 | --- | 2.453 | 3.75 | 0.175 | 55.4 | 153.1 | 1.1 | 0.490 |
| 4-1700 | 4-1980 | 1.205 | 86.1 | 26.7 | 9.68 | 1.117 | 21.5 | 0.934 | 1.275 | 153.4 | 183.5 | --- | 2.466 | 3.15 | 0.218 | 50.1 | 153.4 | 1.1 | 0.477 |
| 4-1700 | 4-2000 | 1.166 | 88.0 | 27.0 | 9.18 | 1.123 | 24.2 | 0.917 | 1.295 | 149.6 | 185.0 | --- | 2.483 | 2.73 | 0.259 | 47.3 | 154.2 | 1.1 | 0.467 |
| 4-1700 | 4-2020 | 1.130 | 90.0 | 27.4 | 8.79 | 1.129 | 26.8 | 0.900 | 1.318 | 145.9 | 186.6 | --- | 2.505 | 2.42 | 0.296 | 45.8 | 155.4 | 1.1 | 0.460 |
| 4-1700 | 4-2040 | 1.094 | 92.0 | 27.7 | 8.47 | 1.135 | 29.3 | 0.882 | 1.343 | 142.2 | 188.3 | --- | 2.528 | 2.19 | 0.330 | 45.0 | 157.0 | 1.1 | 0.455 |
| 4-1700 | 4-2060 | 1.059 | 93.9 | 28.0 | 8.20 | 1.141 | 31.7 | 0.864 | 1.370 | 138.4 | 190.1 | --- | 2.553 | 2.01 | 0.361 | 44.7 | 159.0 | 1.1 | 0.451 |
| 4-1700 | 4-2080 | 1.024 | 95.9 | 28.3 | 7.97 | 1.148 | 34.0 | 0.845 | 1.398 | 134.7 | 192.0 | --- | 2.579 | 1.88 | 0.390 | 44.6 | 161.3 | 1.1 | 0.448 |
| 4-1700 | 4-2100 | 0.990 | 97.9 | 28.6 | 7.76 | 1.154 | 36.3 | 0.827 | 1.426 | 130.9 | 193.9 | --- | 2.605 | 1.77 | 0.417 | 44.9 | 164.0 | 1.2 | 0.446 |
| 4-1700 | 4-2120 | 0.956 | 99.9 | 28.9 | 7.57 | 1.160 | 38.5 | 0.808 | 1.455 | 127.0 | 195.9 | --- | 2.630 | 1.69 | 0.442 | 45.2 | 166.9 | 1.2 | 0.444 |
| 4-1700 | 4-2140 | 0.923 | 102.0 | 29.1 | 7.39 | 1.166 | 40.7 | 0.789 | 1.484 | 123.1 | 197.9 | --- | 2.656 | 1.64 | 0.465 | 45.7 | 170.2 | 1.2 | 0.443 |
| 4-1700 | 4-2160 | 0.890 | 104.0 | 29.3 | 7.21 | 1.172 | 42.9 | 0.771 | 1.514 | 119.1 | 199.9 | --- | 2.681 | 1.60 | 0.486 | 46.3 | 173.7 | 1.3 | 0.441 |
| 4-1700 | 4-2180 | 0.856 | 106.2 | 29.5 | 7.04 | 1.177 | 45.0 | 0.753 | 1.544 | 115.1 | 202.0 | --- | 2.706 | 1.58 | 0.505 | 47.0 | 177.4 | 1.3 | 0.440 |
| 4-1700 | 4-2200 | 0.823 | 108.3 | 29.7 | 6.87 | 1.182 | 47.1 | 0.734 | 1.574 | 111.0 | 204.1 | --- | 2.731 | 1.58 | 0.523 | 47.7 | 181.3 | 1.4 | 0.439 |
| 4-1700 | 4-2220 | 0.790 | 110.6 | 29.8 | 6.69 | 1.187 | 49.1 | 0.717 | 1.605 | 106.8 | 206.1 | --- | 2.755 | 1.60 | 0.539 | 48.5 | 185.4 | 1.5 | 0.438 |
| 4-1700 | 4-2240 | 0.756 | 112.9 | 29.9 | 6.51 | 1.192 | 51.2 | 0.700 | 1.635 | 102.5 | 208.2 | --- | 2.778 | 1.64 | 0.554 | 49.2 | 189.7 | 1.6 | 0.437 |
| 4-1700 | 4-2260 | 0.723 | 115.3 | 29.9 | 6.31 | 1.197 | 53.2 | 0.683 | 1.665 | 98.1 | 210.2 | --- | 2.801 | 1.71 | 0.567 | 50.0 | 194.2 | 1.7 | 0.436 |
| 4-1700 | 4-2280 | 0.690 | 117.8 | 29.9 | 6.10 | 1.201 | 55.2 | 0.666 | 1.695 | 93.7 | 212.2 | --- | 2.824 | 1.80 | 0.579 | 50.8 | 198.8 | 1.9 | 0.434 |
| 4-1700 | 4-2300 | 0.657 | 120.3 | 29.8 | 5.85 | 1.205 | 57.2 | 0.651 | 1.724 | 89.1 | 214.1 | --- | 2.847 | 1.93 | 0.590 | 51.6 | 203.5 | 2.1 | 0.433 |
| 4-1700 | 4-2320 | 0.624 | 123.0 | 29.5 | 5.56 | 1.209 | 59.2 | 0.636 | 1.754 | 84.4 | 216.0 | --- | 2.869 | 2.11 | 0.599 | 52.4 | 208.3 | 2.3 | 0.432 |
| 4-1700 | 4-2340 | 0.590 | 125.8 | 29.0 | 5.20 | 1.213 | 61.2 | 0.622 | 1.783 | 79.7 | 217.7 | --- | 2.892 | 2.36 | 0.607 | 53.2 | 213.3 | 2.7 | 0.430 |
| 4-1700 | 4-2360 | 0.557 | 128.7 | 28.3 | 4.74 | 1.217 | 63.1 | 0.609 | 1.812 | 74.9 | 219.4 | --- | 2.914 | 2.72 | 0.614 | 53.9 | 218.3 | 3.2 | 0.429 |
| 4-1700 | 4-2380 | 0.524 | 131.7 | 27.0 | 4.10 | 1.220 | 65.1 | 0.596 | 1.840 | 69.9 | 220.9 | --- | 2.937 | 3.26 | 0.619 | 54.6 | 223.4 | 3.9 | 0.427 |
| 4-1700 | 4-2400 | 0.490 | 134.6 | 24.7 | 3.14 | 1.224 | 67.0 | 0.585 | 1.868 | 64.9 | 222.4 | --- | 2.961 | 4.13 | 0.624 | 55.2 | 228.6 | 5.0 | 0.427 |
| 4-1700 | 4-2420 | 0.456 | 137.0 | 20.4 | 1.48 | 1.227 | 68.9 | 0.575 | 1.895 | 59.8 | 223.7 | --- | 2.985 | 5.70 | 0.627 | 55.8 | 233.9 | 6.9 | 0.427 |
| 4-1700 | 4-2440 | 0.428 | 137.6 | 10.0 | -2.22 | 1.230 | 70.8 | 0.566 | 1.922 | 54.7 | 224.8 | --- | 3.010 | 9.31 | 0.630 | 56.3 | 239.6 | 11.3 | 0.432 |
| 4-1700 | 4-2460 | 0.524 | 122.8 | -25.3 | -18.02 | 1.233 | 72.7 | 0.559 | 1.949 | 49.6 | 225.9 | --- | 3.037 | 25.02 | 0.631 | 56.7 | 249.9 | 26.8 | 0.495 |
| 4-1700 | 4-2480 | 0.772 | 178.0 | 82.6 | 36.01 | 1.236 | 74.8 | 0.550 | 1.974 | 43.6 | 226.8 | --- | 3.061 | -29.09 | 0.632 | 57.2 | 257.1 | -30.0 | 0.517 |
| 4-1700 | 4-2500 | 0.469 | 172.2 | 57.4 | 16.84 | 1.238 | 76.6 | 0.546 | 2.000 | 38.4 | 227.6 | --- | 3.091 | -10.01 | 0.632 | 57.5 | 255.5 | -12.5 | 0.429 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1900 | 4-2120 | 0.728 | 133.0 | 5.2 | -8.80 | 1.218 | 126.3 | 0.718 | 2.045 | 268.2 | 501.6 | 0.577 | --- | 4.23 | 0.627 | 135.5 | 267.1 | 3.3 | 0.556 |
| 4-1900 | 4-2140 | 0.670 | 132.9 | 4.9 | -8.30 | 1.186 | 124.0 | 0.661 | 1.767 | 268.2 | 507.5 | 0.598 | --- | 3.95 | 0.569 | 128.8 | 268.0 | 3.7 | 0.473 |
| 4-1900 | 4-2160 | 0.627 | 132.8 | 4.8 | -7.84 | 1.163 | 122.3 | 0.619 | 1.614 | 268.2 | 513.5 | 0.614 | --- | 3.74 | 0.526 | 121.8 | 267.9 | 4.1 | 0.405 |
| 4-1900 | 4-2180 | 0.596 | 132.8 | 4.9 | -7.42 | 1.147 | 121.0 | 0.589 | 1.522 | 268.0 | 519.4 | 0.625 | --- | 3.58 | 0.496 | 114.8 | 266.6 | 4.6 | 0.350 |
| 4-1900 | 4-2200 | 0.575 | 133.0 | 5.1 | -7.03 | 1.135 | 120.2 | 0.569 | 1.464 | 267.7 | 525.2 | 0.632 | --- | 3.48 | 0.475 | 107.9 | 263.9 | 5.1 | 0.308 |
| 4-1900 | 4-2220 | 0.564 | 133.3 | 5.5 | -6.64 | 1.128 | 119.8 | 0.557 | 1.428 | 267.0 | 530.8 | 0.632 | --- | 3.42 | 0.462 | 101.2 | 259.7 | 5.6 | 0.278 |
| 4-1900 | 4-2240 | 0.561 | 133.9 | 6.0 | -6.27 | 1.123 | 119.9 | 0.553 | 1.405 | 266.0 | 536.1 | 0.628 | --- | 3.40 | 0.455 | 94.8 | 254.4 | 5.9 | 0.261 |
| 4-1900 | 4-2260 | 0.567 | 134.8 | 6.6 | -5.89 | 1.120 | 120.4 | 0.557 | 1.392 | 264.5 | 541.0 | 0.617 | 2.168 | 3.42 | 0.452 | 88.7 | 248.7 | 6.0 | 0.257 |
| 4-1900 | 4-2280 | 0.581 | 135.9 | 7.3 | -5.49 | 1.118 | 121.3 | 0.568 | 1.386 | 262.5 | 545.5 | 0.599 | 2.173 | 3.48 | 0.452 | 82.9 | 243.7 | 5.9 | 0.265 |
| 4-1900 | 4-2300 | 0.603 | 137.4 | 8.0 | -5.08 | 1.118 | 122.7 | 0.585 | 1.386 | 260.0 | 549.4 | 0.575 | 2.196 | 3.60 | 0.454 | 77.2 | 240.2 | 5.6 | 0.284 |
| 4-1900 | 4-2320 | 0.634 | 139.2 | 8.8 | -4.62 | 1.119 | 124.6 | 0.609 | 1.389 | 256.8 | 552.7 | 0.543 | 2.235 | 3.78 | 0.457 | 71.7 | 238.5 | 5.3 | 0.312 |
| 4-1900 | 4-2340 | 0.675 | 141.4 | 9.4 | -4.12 | 1.120 | 127.0 | 0.640 | 1.395 | 252.9 | 555.3 | 0.502 | 2.288 | 4.02 | 0.461 | 66.1 | 238.6 | 4.9 | 0.347 |
| 4-1900 | 4-2360 | 0.726 | 143.9 | 9.9 | -3.53 | 1.122 | 130.0 | 0.677 | 1.405 | 248.3 | 557.2 | 0.453 | 2.356 | 4.36 | 0.466 | 60.4 | 240.3 | 4.5 | 0.390 |
| 4-1900 | 4-2380 | 0.789 | 146.7 | 10.3 | -2.83 | 1.125 | 133.7 | 0.721 | 1.416 | 242.9 | 558.2 | 0.396 | 2.437 | 4.84 | 0.470 | 54.4 | 243.3 | 4.2 | 0.438 |
| 4-1900 | 4-2400 | 0.863 | 149.9 | 10.4 | -1.95 | 1.128 | 138.1 | 0.769 | 1.430 | 236.5 | 558.4 | 0.330 | 2.531 | 5.50 | 0.475 | 48.1 | 247.5 | 3.9 | 0.492 |
| 4-1900 | 4-2420 | 0.950 | 153.5 | 10.3 | -0.78 | 1.132 | 143.3 | 0.821 | 1.447 | 229.3 | 557.5 | 0.259 | 2.635 | 6.46 | 0.479 | 41.3 | 252.7 | 3.7 | 0.551 |
| 4-1900 | 4-2440 | 1.048 | 157.4 | 10.0 | 0.88 | 1.136 | 149.2 | 0.873 | 1.466 | 221.2 | 555.7 | 0.186 | 2.745 | 7.92 | 0.484 | 34.0 | 258.8 | 3.5 | 0.615 |
| 4-1910 | 4-2130 | 0.701 | 139.6 | 0.9 | -9.75 | 1.223 | 124.4 | 0.707 | 2.088 | 272.6 | 499.5 | 0.613 | --- | 6.03 | 0.638 | 134.8 | 270.9 | 4.9 | 0.553 |
| 4-1910 | 4-2150 | 0.642 | 139.4 | 0.9 | -8.97 | 1.191 | 122.1 | 0.648 | 1.799 | 272.7 | 505.5 | 0.633 | --- | 5.52 | 0.581 | 128.2 | 272.0 | 5.3 | 0.471 |
| 4-1910 | 4-2170 | 0.598 | 139.2 | 1.0 | -8.29 | 1.169 | 120.4 | 0.604 | 1.641 | 272.8 | 511.6 | 0.650 | --- | 5.14 | 0.539 | 121.5 | 272.1 | 5.9 | 0.403 |
| 4-1910 | 4-2190 | 0.566 | 139.2 | 1.4 | -7.68 | 1.152 | 119.1 | 0.572 | 1.546 | 272.7 | 517.7 | 0.662 | --- | 4.85 | 0.509 | 114.8 | 271.1 | 6.4 | 0.348 |
| 4-1910 | 4-2210 | 0.544 | 139.4 | 1.8 | -7.13 | 1.141 | 118.2 | 0.550 | 1.486 | 272.4 | 523.6 | 0.669 | --- | 4.64 | 0.488 | 108.2 | 268.7 | 7.1 | 0.305 |
| 4-1910 | 4-2230 | 0.531 | 139.8 | 2.5 | -6.61 | 1.133 | 117.8 | 0.537 | 1.448 | 271.9 | 529.3 | 0.671 | --- | 4.50 | 0.475 | 101.9 | 264.8 | 7.7 | 0.274 |
| 4-1910 | 4-2250 | 0.526 | 140.4 | 3.2 | -6.10 | 1.128 | 117.8 | 0.532 | 1.425 | 271.0 | 534.8 | 0.667 | --- | 4.42 | 0.468 | 95.9 | 259.7 | 8.1 | 0.255 |
| 4-1910 | 4-2270 | 0.529 | 141.3 | 4.1 | -5.61 | 1.125 | 118.1 | 0.533 | 1.411 | 269.7 | 539.9 | 0.658 | --- | 4.39 | 0.464 | 90.2 | 254.0 | 8.2 | 0.248 |
| 4-1910 | 4-2290 | 0.540 | 142.4 | 5.0 | -5.11 | 1.124 | 118.9 | 0.542 | 1.404 | 267.9 | 544.5 | 0.643 | 2.165 | 4.42 | 0.464 | 84.7 | 248.9 | 8.1 | 0.253 |
| 4-1910 | 4-2310 | 0.559 | 143.9 | 5.9 | -4.60 | 1.124 | 120.1 | 0.557 | 1.403 | 265.5 | 548.6 | 0.622 | 2.184 | 4.51 | 0.465 | 79.5 | 245.1 | 7.7 | 0.269 |
| 4-1910 | 4-2330 | 0.586 | 145.7 | 6.7 | -4.06 | 1.124 | 121.8 | 0.578 | 1.406 | 262.6 | 552.1 | 0.594 | 2.218 | 4.66 | 0.467 | 74.4 | 243.1 | 7.2 | 0.293 |
| 4-1910 | 4-2350 | 0.621 | 147.8 | 7.5 | -3.47 | 1.125 | 123.9 | 0.605 | 1.412 | 259.0 | 555.1 | 0.558 | 2.265 | 4.89 | 0.470 | 69.3 | 242.8 | 6.6 | 0.324 |
| 4-1910 | 4-2370 | 0.666 | 150.2 | 8.1 | -2.81 | 1.127 | 126.5 | 0.638 | 1.420 | 254.7 | 557.3 | 0.514 | 2.327 | 5.21 | 0.473 | 64.1 | 244.0 | 6.1 | 0.362 |
| 4-1910 | 4-2390 | 0.721 | 152.9 | 8.5 | -2.06 | 1.130 | 129.7 | 0.677 | 1.431 | 249.7 | 558.8 | 0.462 | 2.401 | 5.66 | 0.477 | 58.8 | 246.6 | 5.7 | 0.405 |
| 4-1910 | 4-2410 | 0.787 | 155.9 | 8.7 | -1.15 | 1.133 | 133.5 | 0.722 | 1.445 | 244.0 | 559.4 | 0.402 | 2.487 | 6.27 | 0.480 | 53.1 | 250.3 | 5.3 | 0.452 |
| 4-1910 | 4-2430 | 0.863 | 159.3 | 8.7 | -0.03 | 1.136 | 138.0 | 0.771 | 1.460 | 237.5 | 559.2 | 0.335 | 2.585 | 7.11 | 0.484 | 47.0 | 255.1 | 5.0 | 0.505 |
| 4-1910 | 4-2450 | 0.951 | 162.9 | 8.4 | 1.45 | 1.139 | 143.2 | 0.822 | 1.477 | 230.1 | 558.2 | 0.263 | 2.692 | 8.33 | 0.487 | 40.5 | 260.6 | 4.7 | 0.562 |
| 4-1910 | 4-2470 | 1.049 | 166.8 | 7.8 | 3.54 | 1.143 | 149.0 | 0.873 | 1.497 | 222.0 | 556.2 | 0.189 | 2.804 | 10.16 | 0.491 | 33.5 | 266.9 | 4.4 | 0.623 |
| 4-1920 | 4-2120 | 0.755 | 146.0 | -4.8 | -12.53 | 1.272 | 125.2 | 0.776 | 2.774 | 276.9 | 491.4 | 0.622 | --- | 9.34 | 0.722 | 140.1 | 272.7 | 6.7 | 0.650 |
| 4-1920 | 4-2140 | 0.676 | 145.7 | -4.4 | -11.05 | 1.228 | 122.4 | 0.695 | 2.124 | 277.1 | 497.4 | 0.647 | --- | 8.16 | 0.647 | 133.9 | 274.6 | 6.9 | 0.550 |
| 4-1920 | 4-2160 | 0.616 | 145.5 | -3.9 | -9.87 | 1.197 | 120.2 | 0.634 | 1.827 | 277.3 | 503.6 | 0.668 | --- | 7.30 | 0.591 | 127.6 | 275.8 | 7.3 | 0.468 |
| 4-1920 | 4-2180 | 0.570 | 145.3 | -3.4 | -8.89 | 1.174 | 118.5 | 0.589 | 1.665 | 277.5 | 509.8 | 0.685 | --- | 6.66 | 0.550 | 121.1 | 276.2 | 7.8 | 0.400 |
| 4-1920 | 4-2200 | 0.537 | 145.4 | -2.7 | -8.05 | 1.158 | 117.2 | 0.555 | 1.568 | 277.5 | 516.0 | 0.697 | --- | 6.18 | 0.520 | 114.6 | 275.4 | 8.5 | 0.345 |
| 4-1920 | 4-2220 | 0.513 | 145.5 | -1.9 | -7.31 | 1.147 | 116.3 | 0.532 | 1.507 | 277.4 | 522.1 | 0.705 | --- | 5.83 | 0.500 | 108.4 | 273.2 | 9.2 | 0.302 |
| 4-1920 | 4-2240 | 0.499 | 146.0 | -0.9 | -6.63 | 1.139 | 115.8 | 0.518 | 1.468 | 276.9 | 528.0 | 0.707 | --- | 5.57 | 0.487 | 102.4 | 269.5 | 9.9 | 0.270 |
| 4-1920 | 4-2260 | 0.492 | 146.6 | 0.1 | -5.99 | 1.134 | 115.7 | 0.512 | 1.444 | 276.1 | 533.5 | 0.705 | --- | 5.40 | 0.480 | 96.7 | 264.6 | 10.4 | 0.249 |
| 4-1920 | 4-2280 | 0.494 | 147.6 | 1.3 | -5.39 | 1.131 | 116.0 | 0.512 | 1.429 | 274.9 | 538.7 | 0.698 | --- | 5.30 | 0.476 | 91.3 | 259.1 | 10.5 | 0.241 |
| 4-1920 | 4-2300 | 0.502 | 148.8 | 2.4 | -4.79 | 1.130 | 116.7 | 0.518 | 1.422 | 273.2 | 543.5 | 0.685 | 2.160 | 5.27 | 0.474 | 86.3 | 253.9 | 10.3 | 0.244 |
| 4-1920 | 4-2320 | 0.518 | 150.3 | 3.5 | -4.19 | 1.129 | 117.7 | 0.531 | 1.421 | 271.0 | 547.8 | 0.666 | 2.175 | 5.31 | 0.475 | 81.4 | 249.9 | 9.7 | 0.256 |
| 4-1920 | 4-2340 | 0.541 | 152.1 | 4.5 | -3.57 | 1.130 | 119.2 | 0.549 | 1.423 | 268.3 | 551.5 | 0.641 | 2.204 | 5.41 | 0.476 | 76.7 | 247.6 | 9.1 | 0.277 |
| 4-1920 | 4-2360 | 0.573 | 154.2 | 5.4 | -2.92 | 1.131 | 121.0 | 0.573 | 1.429 | 264.9 | 554.6 | 0.610 | 2.247 | 5.60 | 0.478 | 72.0 | 246.9 | 8.4 | 0.305 |
| 4-1920 | 4-2380 | 0.612 | 156.6 | 6.1 | -2.21 | 1.133 | 123.3 | 0.603 | 1.437 | 261.0 | 557.1 | 0.571 | 2.303 | 5.87 | 0.481 | 67.3 | 247.8 | 7.7 | 0.338 |
| 4-1920 | 4-2400 | 0.661 | 159.2 | 6.6 | -1.43 | 1.135 | 126.1 | 0.638 | 1.447 | 256.4 | 559.0 | 0.524 | 2.370 | 6.26 | 0.483 | 62.4 | 250.1 | 7.1 | 0.376 |
| 4-1920 | 4-2420 | 0.718 | 162.1 | 6.9 | -0.53 | 1.138 | 129.4 | 0.678 | 1.460 | 251.1 | 560.1 | 0.470 | 2.450 | 6.79 | 0.486 | 57.3 | 253.4 | 6.6 | 0.418 |
| 4-1920 | 4-2440 | 0.786 | 165.2 | 6.9 | 0.54 | 1.140 | 133.3 | 0.723 | 1.474 | 245.1 | 560.4 | 0.408 | 2.540 | 7.50 | 0.488 | 51.9 | 257.7 | 6.2 | 0.465 |
| 4-1920 | 4-2460 | 0.864 | 168.6 | 6.7 | 1.86 | 1.144 | 137.8 | 0.772 | 1.491 | 238.4 | 560.0 | 0.340 | 2.641 | 8.49 | 0.491 | 46.1 | 262.8 | 5.8 | 0.516 |
| 4-1920 | 4-2480 | 0.952 | 172.1 | 6.2 | 3.58 | 1.147 | 143.0 | 0.823 | 1.509 | 231.0 | 558.7 | 0.268 | 2.750 | 9.90 | 0.493 | 39.9 | 268.6 | 5.5 | 0.570 |
| 4-1920 | 4-2500 | 1.050 | 175.9 | 5.5 | 5.96 | 1.151 | 148.7 | 0.872 | 1.529 | 222.9 | 556.7 | 0.195 | 2.863 | 11.98 | 0.496 | 33.3 | 275.0 | 5.2 | 0.628 |
| 4-1930 | 4-2130 | 0.740 | 151.6 | -12.3 | -15.28 | 1.276 | 123.1 | 0.766 | 2.813 | 281.4 | 489.3 | 0.657 | --- | 12.88 | 0.728 | 139.1 | 275.9 | 9.5 | 0.648 |
| 4-1930 | 4-2150 | 0.656 | 151.3 | -10.9 | -12.89 | 1.232 | 120.4 | 0.683 | 2.152 | 281.7 | 495.5 | 0.682 | --- | 10.83 | 0.655 | 133.0 | 278.0 | 9.4 | 0.548 |
| 4-1930 | 4-2170 | 0.592 | 151.1 | -9.7 | -11.11 | 1.201 | 118.2 | 0.620 | 1.851 | 282.1 | 501.8 | 0.703 | --- | 9.41 | 0.600 | 126.8 | 279.4 | 9.7 | 0.465 |
| 4-1930 | 4-2190 | 0.544 | 151.0 | -8.5 | -9.72 | 1.179 | 116.5 | 0.573 | 1.687 | 282.3 | 508.2 | 0.719 | --- | 8.38 | 0.559 | 120.5 | 279.9 | 10.2 | 0.398 |
| 4-1930 | 4-2210 | 0.509 | 151.1 | -7.3 | -8.57 | 1.164 | 115.2 | 0.539 | 1.588 | 282.5 | 514.5 | 0.731 | --- | 7.62 | 0.531 | 114.3 | 279.3 | 10.8 | 0.343 |
| 4-1930 | 4-2230 | 0.484 | 151.3 | -6.0 | -7.59 | 1.152 | 114.4 | 0.516 | 1.526 | 282.4 | 520.7 | 0.739 | --- | 7.06 | 0.511 | 108.4 | 277.3 | 11.5 | 0.299 |
| 4-1930 | 4-2250 | 0.468 | 151.8 | -4.7 | -6.72 | 1.145 | 113.9 | 0.501 | 1.486 | 282.1 | 526.7 | 0.742 | --- | 6.65 | 0.498 | 102.7 | 273.9 | 12.2 | 0.266 |
| 4-1930 | 4-2270 | 0.460 | 152.6 | -3.2 | -5.94 | 1.140 | 113.8 | 0.493 | 1.462 | 281.4 | 532.4 | 0.741 | --- | 6.35 | 0.490 | 97.3 | 269.2 | 12.7 | 0.245 |
| 4-1930 | 4-2290 | 0.460 | 153.6 | -1.8 | -5.20 | 1.137 | 114.0 | 0.492 | 1.447 | 280.3 | 537.7 | 0.735 | --- | 6.15 | 0.486 | 92.2 | 263.8 | 12.8 | 0.235 |
| 4-1930 | 4-2310 | 0.466 | 155.0 | -0.3 | -4.51 | 1.135 | 114.6 | 0.497 | 1.440 | 278.7 | 542.6 | 0.724 | 2.156 | 6.04 | 0.484 | 87.5 | 258.6 | 12.4 | 0.236 |
| 4-1930 | 4-2330 | 0.480 | 156.6 | 1.0 | -3.82 | 1.135 | 115.5 | 0.508 | 1.438 | 276.6 | 546.9 | 0.708 | 2.168 | 6.00 | 0.484 | 82.9 | 254.4 | 11.8 | 0.246 |
| 4-1930 | 4-2350 | 0.500 | 158.4 | 2.2 | -3.14 | 1.135 | 116.8 | 0.524 | 1.440 | 274.0 | 550.8 | 0.686 | 2.194 | 6.05 | 0.485 | 78.6 | 251.9 | 10.9 | 0.264 |
| 4-1930 | 4-2370 | 0.528 | 160.6 | 3.2 | -2.44 | 1.137 | 118.4 | 0.545 | 1.445 | 270.8 | 554.1 | 0.658 | 2.233 | 6.17 | 0.486 | 74.3 | 251.0 | 10.0 | 0.288 |
| 4-1930 | 4-2390 | 0.563 | 162.9 | 4.1 | -1.70 | 1.138 | 120.4 | 0.571 | 1.453 | 267.1 | 556.8 | 0.623 | 2.284 | 6.38 | 0.488 | 69.9 | 251.7 | 9.2 | 0.318 |
| 4-1930 | 4-2410 | 0.606 | 165.5 | 4.6 | -0.90 | 1.140 | 122.9 | 0.602 | 1.464 | 262.8 | 559.0 | 0.582 | 2.345 | 6.69 | 0.489 | 65.5 | 253.6 | 8.5 | 0.352 |
| 4-1930 | 4-2430 | 0.657 | 168.3 | 5.0 | -0.02 | 1.143 | 125.8 | 0.639 | 1.476 | 257.9 | 560.4 | 0.533 | 2.418 | 7.12 | 0.491 | 61.0 | 256.6 | 7.9 | 0.389 |
| 4-1930 | 4-2450 | 0.717 | 171.3 | 5.1 | 0.99 | 1.146 | 129.2 | 0.680 | 1.489 | 252.4 | 561.2 | 0.477 | 2.502 | 7.71 | 0.493 | 56.1 | 260.5 | 7.3 | 0.430 |
| 4-1930 | 4-2470 | 0.786 | 174.4 | 4.9 | 2.17 | 1.149 | 133.1 | 0.725 | 1.505 | 246.3 | 561.3 | 0.414 | 2.595 | 8.50 | 0.494 | 51.0 | 265.2 | 6.9 | 0.475 |
| 4-1930 | 4-2490 | 0.865 | 177.8 | 4.5 | 3.63 | 1.152 | 137.6 | 0.773 | 1.522 | 239.5 | 560.6 | 0.346 | 2.698 | 9.59 | 0.496 | 45.5 | 270.6 | 6.5 | 0.524 |
| 4-1930 | 4-2510 | 0.953 | 181.3 | 3.9 | 5.50 | 1.155 | 142.6 | 0.822 | 1.541 | 232.2 | 559.3 | 0.274 | 2.807 | 11.10 | 0.498 | 39.6 | 276.6 | 6.1 | 0.575 |
| 4-1930 | 4-2530 | 1.048 | 185.0 | 3.0 | 8.04 | 1.159 | 148.2 | 0.870 | 1.561 | 224.2 | 557.2 | 0.203 | 2.920 | 13.31 | 0.499 | 33.3 | 283.1 | 5.8 | 0.629 |
| 4-1940 | 4-2160 | 0.645 | 156.4 | -19.4 | -15.65 | 1.236 | 118.4 | 0.670 | 2.173 | 286.4 | 493.8 | 0.716 | --- | 14.42 | 0.660 | 132.1 | 281.0 | 12.9 | 0.548 |
| 4-1940 | 4-2180 | 0.574 | 156.2 | -16.9 | -12.89 | 1.206 | 116.2 | 0.606 | 1.871 | 286.9 | 500.2 | 0.737 | --- | 12.03 | 0.607 | 126.0 | 282.7 | 12.7 | 0.464 |
| 4-1940 | 4-2200 | 0.522 | 156.1 | -14.7 | -10.86 | 1.184 | 114.6 | 0.558 | 1.705 | 287.4 | 506.7 | 0.753 | --- | 10.39 | 0.568 | 119.9 | 283.4 | 13.0 | 0.396 |
| 4-1940 | 4-2220 | 0.483 | 156.3 | -12.7 | -9.28 | 1.169 | 113.3 | 0.524 | 1.606 | 287.6 | 513.2 | 0.765 | --- | 9.22 | 0.540 | 113.9 | 282.9 | 13.4 | 0.340 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1940 | 4-2240 | 0.456 | 156.7 | -10.7 | -7.99 | 1.158 | 112.4 | 0.499 | 1.543 | 287.7 | 519.5 | 0.773 | --- | 8.37 | 0.520 | 108.2 | 281.1 | 14.0 | 0.297 |
| 4-1940 | 4-2260 | 0.439 | 157.3 | -8.8 | -6.89 | 1.151 | 112.0 | 0.484 | 1.504 | 287.5 | 525.6 | 0.776 | --- | 7.74 | 0.508 | 102.8 | 277.9 | 14.7 | 0.264 |
| 4-1940 | 4-2280 | 0.429 | 158.2 | -6.9 | -5.93 | 1.146 | 111.8 | 0.476 | 1.479 | 286.8 | 531.4 | 0.775 | --- | 7.28 | 0.500 | 97.7 | 273.3 | 15.1 | 0.242 |
| 4-1940 | 4-2300 | 0.427 | 159.4 | -5.0 | -5.07 | 1.143 | 112.0 | 0.474 | 1.464 | 285.8 | 536.8 | 0.770 | --- | 6.95 | 0.495 | 92.9 | 268.0 | 15.0 | 0.230 |
| 4-1940 | 4-2320 | 0.432 | 160.9 | -3.2 | -4.26 | 1.141 | 112.5 | 0.478 | 1.457 | 284.3 | 541.7 | 0.761 | 2.153 | 6.73 | 0.493 | 88.4 | 262.9 | 14.6 | 0.229 |
| 4-1940 | 4-2340 | 0.444 | 162.7 | -1.6 | -3.49 | 1.141 | 113.3 | 0.487 | 1.455 | 282.3 | 546.2 | 0.746 | 2.164 | 6.61 | 0.492 | 84.2 | 258.7 | 13.7 | 0.238 |
| 4-1940 | 4-2360 | 0.462 | 164.7 | -0.2 | -2.75 | 1.141 | 114.5 | 0.501 | 1.457 | 279.8 | 550.1 | 0.727 | 2.187 | 6.57 | 0.492 | 80.1 | 256.0 | 12.7 | 0.253 |
| 4-1940 | 4-2380 | 0.486 | 166.9 | 1.0 | -2.00 | 1.142 | 115.9 | 0.520 | 1.462 | 276.8 | 553.6 | 0.702 | 2.223 | 6.61 | 0.493 | 76.2 | 255.0 | 11.6 | 0.274 |
| 4-1940 | 4-2400 | 0.518 | 169.3 | 2.0 | -1.24 | 1.144 | 117.8 | 0.543 | 1.470 | 273.2 | 556.5 | 0.672 | 2.269 | 6.75 | 0.494 | 72.2 | 255.4 | 10.6 | 0.301 |
| 4-1940 | 4-2420 | 0.556 | 171.9 | 2.7 | -0.44 | 1.146 | 119.9 | 0.571 | 1.480 | 269.2 | 558.8 | 0.635 | 2.326 | 6.97 | 0.495 | 68.2 | 257.1 | 9.7 | 0.331 |
| 4-1940 | 4-2440 | 0.602 | 174.6 | 3.1 | 0.42 | 1.148 | 122.5 | 0.604 | 1.492 | 264.6 | 560.5 | 0.591 | 2.392 | 7.31 | 0.496 | 64.1 | 259.9 | 9.0 | 0.364 |
| 4-1940 | 4-2460 | 0.655 | 177.5 | 3.2 | 1.37 | 1.151 | 125.5 | 0.640 | 1.505 | 259.5 | 561.6 | 0.541 | 2.469 | 7.77 | 0.497 | 59.7 | 263.5 | 8.3 | 0.400 |
| 4-1940 | 4-2480 | 0.717 | 180.5 | 3.1 | 2.44 | 1.154 | 128.9 | 0.681 | 1.520 | 253.8 | 562.2 | 0.485 | 2.556 | 8.38 | 0.498 | 55.2 | 267.8 | 7.8 | 0.440 |
| 4-1940 | 4-2500 | 0.787 | 183.6 | 2.8 | 3.69 | 1.157 | 132.8 | 0.726 | 1.537 | 247.6 | 562.0 | 0.422 | 2.651 | 9.21 | 0.499 | 50.3 | 272.8 | 7.3 | 0.483 |
| 4-1940 | 4-2520 | 0.865 | 186.9 | 2.2 | 5.21 | 1.160 | 137.2 | 0.772 | 1.554 | 240.8 | 561.2 | 0.354 | 2.755 | 10.34 | 0.500 | 45.0 | 278.4 | 6.9 | 0.528 |
| 4-1940 | 4-2540 | 0.951 | 190.3 | 1.4 | 7.14 | 1.163 | 142.1 | 0.820 | 1.574 | 233.5 | 559.8 | 0.283 | 2.864 | 11.88 | 0.501 | 39.5 | 284.4 | 6.5 | 0.576 |
| 4-1950 | 4-2170 | 0.658 | 160.9 | -30.9 | -20.18 | 1.239 | 116.3 | 0.657 | 2.184 | 291.3 | 492.2 | 0.750 | --- | 19.77 | 0.665 | 131.0 | 283.2 | 17.8 | 0.555 |
| 4-1950 | 4-2190 | 0.567 | 160.5 | -26.1 | -15.57 | 1.210 | 114.2 | 0.591 | 1.885 | 292.0 | 498.8 | 0.770 | --- | 15.55 | 0.613 | 125.1 | 285.4 | 16.7 | 0.466 |
| 4-1950 | 4-2210 | 0.505 | 160.6 | -22.3 | -12.50 | 1.189 | 112.5 | 0.543 | 1.720 | 292.6 | 505.5 | 0.786 | --- | 12.88 | 0.575 | 119.1 | 286.4 | 16.4 | 0.396 |
| 4-1950 | 4-2230 | 0.461 | 160.9 | -19.1 | -10.27 | 1.174 | 111.3 | 0.508 | 1.621 | 293.0 | 512.0 | 0.797 | --- | 11.07 | 0.547 | 113.4 | 286.2 | 16.5 | 0.339 |
| 4-1950 | 4-2250 | 0.431 | 161.5 | -16.1 | -8.56 | 1.163 | 110.5 | 0.484 | 1.559 | 293.2 | 518.5 | 0.805 | --- | 9.80 | 0.529 | 107.9 | 284.6 | 16.9 | 0.295 |
| 4-1950 | 4-2270 | 0.411 | 162.3 | -13.4 | -7.16 | 1.156 | 110.0 | 0.468 | 1.520 | 293.0 | 524.7 | 0.808 | --- | 8.87 | 0.516 | 102.7 | 281.5 | 17.3 | 0.261 |
| 4-1950 | 4-2290 | 0.399 | 163.5 | -10.8 | -5.99 | 1.151 | 109.9 | 0.460 | 1.495 | 292.5 | 530.5 | 0.808 | --- | 8.20 | 0.508 | 97.9 | 277.1 | 17.5 | 0.239 |
| 4-1950 | 4-2310 | 0.396 | 164.9 | -8.4 | -4.97 | 1.148 | 110.0 | 0.457 | 1.481 | 291.5 | 536.0 | 0.804 | --- | 7.70 | 0.503 | 93.4 | 271.9 | 17.3 | 0.226 |
| 4-1950 | 4-2330 | 0.399 | 166.6 | -6.1 | -4.05 | 1.147 | 110.5 | 0.460 | 1.474 | 290.1 | 541.0 | 0.795 | 2.152 | 7.35 | 0.501 | 89.2 | 266.8 | 16.6 | 0.224 |
| 4-1950 | 4-2350 | 0.409 | 168.6 | -4.2 | -3.19 | 1.147 | 111.2 | 0.468 | 1.472 | 288.1 | 545.5 | 0.783 | 2.161 | 7.12 | 0.500 | 85.2 | 262.7 | 15.5 | 0.230 |
| 4-1950 | 4-2370 | 0.425 | 170.7 | -2.5 | -2.38 | 1.147 | 112.3 | 0.481 | 1.474 | 285.7 | 549.5 | 0.765 | 2.183 | 6.99 | 0.500 | 81.4 | 260.0 | 14.3 | 0.244 |
| 4-1950 | 4-2390 | 0.448 | 173.1 | -1.1 | -1.60 | 1.148 | 113.6 | 0.497 | 1.479 | 282.8 | 553.0 | 0.743 | 2.215 | 6.94 | 0.500 | 77.7 | 258.8 | 13.0 | 0.263 |
| 4-1950 | 4-2410 | 0.476 | 175.6 | -0.0 | -0.81 | 1.150 | 115.3 | 0.518 | 1.487 | 279.4 | 556.0 | 0.716 | 2.258 | 6.99 | 0.500 | 74.1 | 259.1 | 11.8 | 0.286 |
| 4-1950 | 4-2430 | 0.511 | 178.2 | 0.7 | -0.02 | 1.152 | 117.2 | 0.543 | 1.497 | 275.5 | 558.5 | 0.684 | 2.310 | 7.13 | 0.501 | 70.4 | 260.6 | 10.8 | 0.312 |
| 4-1950 | 4-2450 | 0.552 | 180.9 | 1.2 | 0.81 | 1.154 | 119.5 | 0.572 | 1.509 | 271.2 | 560.4 | 0.645 | 2.372 | 7.36 | 0.501 | 66.7 | 263.1 | 9.9 | 0.342 |
| 4-1950 | 4-2470 | 0.600 | 183.7 | 1.4 | 1.70 | 1.156 | 122.1 | 0.605 | 1.522 | 266.3 | 561.8 | 0.601 | 2.443 | 7.70 | 0.502 | 62.8 | 266.5 | 9.2 | 0.374 |
| 4-1950 | 4-2490 | 0.655 | 186.6 | 1.3 | 2.68 | 1.159 | 125.2 | 0.642 | 1.536 | 261.1 | 562.7 | 0.550 | 2.523 | 8.16 | 0.502 | 58.7 | 270.6 | 8.6 | 0.409 |
| 4-1950 | 4-2510 | 0.717 | 189.6 | 1.0 | 3.77 | 1.162 | 128.6 | 0.682 | 1.552 | 255.3 | 563.0 | 0.493 | 2.611 | 8.79 | 0.502 | 54.4 | 275.3 | 8.0 | 0.447 |
| 4-1950 | 4-2530 | 0.786 | 192.7 | 0.5 | 5.04 | 1.165 | 132.5 | 0.726 | 1.569 | 249.1 | 562.7 | 0.430 | 2.707 | 9.61 | 0.502 | 49.8 | 280.4 | 7.6 | 0.487 |
| 4-1950 | 4-2550 | 0.863 | 195.9 | -0.2 | 6.56 | 1.168 | 136.8 | 0.771 | 1.587 | 242.3 | 561.8 | 0.364 | 2.811 | 10.72 | 0.503 | 44.8 | 286.1 | 7.2 | 0.529 |
| 4-1960 | 4-2180 | 0.734 | 165.5 | -47.2 | -28.68 | 1.242 | 114.2 | 0.642 | 2.185 | 296.1 | 490.9 | 0.781 | --- | 29.08 | 0.667 | 130.0 | 283.1 | 25.0 | 0.587 |
| 4-1960 | 4-2200 | 0.587 | 163.9 | -38.4 | -20.04 | 1.213 | 112.1 | 0.576 | 1.893 | 297.2 | 497.6 | 0.802 | --- | 20.83 | 0.617 | 124.1 | 287.1 | 22.3 | 0.479 |
| 4-1960 | 4-2220 | 0.500 | 164.0 | -32.0 | -15.02 | 1.193 | 110.5 | 0.528 | 1.731 | 298.1 | 504.4 | 0.817 | --- | 16.22 | 0.580 | 118.3 | 288.9 | 20.9 | 0.400 |
| 4-1960 | 4-2240 | 0.445 | 164.6 | -26.8 | -11.73 | 1.178 | 109.3 | 0.493 | 1.634 | 298.7 | 511.1 | 0.828 | --- | 13.35 | 0.554 | 112.7 | 289.0 | 20.3 | 0.340 |
| 4-1960 | 4-2260 | 0.408 | 165.6 | -22.5 | -9.38 | 1.168 | 108.5 | 0.469 | 1.573 | 298.9 | 517.7 | 0.835 | --- | 11.43 | 0.536 | 107.5 | 287.6 | 20.1 | 0.294 |
| 4-1960 | 4-2280 | 0.384 | 166.8 | -18.6 | -7.57 | 1.161 | 108.0 | 0.453 | 1.535 | 298.9 | 523.9 | 0.839 | --- | 10.09 | 0.524 | 102.5 | 284.7 | 20.2 | 0.260 |
| 4-1960 | 4-2300 | 0.371 | 168.3 | -15.1 | -6.13 | 1.157 | 107.9 | 0.445 | 1.510 | 298.4 | 529.8 | 0.839 | --- | 9.12 | 0.516 | 97.9 | 280.4 | 20.0 | 0.236 |
| 4-1960 | 4-2320 | 0.366 | 170.0 | -11.9 | -4.91 | 1.154 | 108.1 | 0.442 | 1.496 | 297.5 | 535.3 | 0.835 | --- | 8.42 | 0.511 | 93.7 | 275.4 | 19.5 | 0.223 |
| 4-1960 | 4-2340 | 0.368 | 172.0 | -9.1 | -3.86 | 1.153 | 108.5 | 0.445 | 1.490 | 296.0 | 540.4 | 0.827 | 2.152 | 7.90 | 0.508 | 89.7 | 270.4 | 18.6 | 0.220 |
| 4-1960 | 4-2360 | 0.376 | 174.3 | -6.7 | -2.91 | 1.152 | 109.2 | 0.452 | 1.488 | 294.1 | 544.9 | 0.816 | 2.160 | 7.54 | 0.507 | 86.0 | 266.3 | 17.2 | 0.224 |
| 4-1960 | 4-2380 | 0.391 | 176.7 | -4.7 | -2.04 | 1.153 | 110.1 | 0.463 | 1.490 | 291.7 | 549.0 | 0.801 | 2.180 | 7.30 | 0.506 | 82.4 | 263.6 | 15.7 | 0.236 |
| 4-1960 | 4-2400 | 0.411 | 179.2 | -3.1 | -1.21 | 1.154 | 111.4 | 0.478 | 1.496 | 288.9 | 552.5 | 0.781 | 2.211 | 7.18 | 0.506 | 79.0 | 262.4 | 14.2 | 0.252 |
| 4-1960 | 4-2420 | 0.437 | 181.8 | -1.9 | -0.41 | 1.155 | 112.9 | 0.496 | 1.504 | 285.6 | 555.6 | 0.757 | 2.250 | 7.12 | 0.506 | 75.7 | 262.6 | 12.9 | 0.273 |
| 4-1960 | 4-2440 | 0.469 | 184.5 | -1.0 | 0.38 | 1.157 | 114.6 | 0.519 | 1.514 | 281.8 | 558.2 | 0.729 | 2.299 | 7.16 | 0.506 | 72.3 | 264.0 | 11.7 | 0.297 |
| 4-1960 | 4-2460 | 0.506 | 187.3 | -0.5 | 1.18 | 1.159 | 116.7 | 0.545 | 1.525 | 277.7 | 560.3 | 0.695 | 2.356 | 7.30 | 0.506 | 68.9 | 266.4 | 10.7 | 0.323 |
| 4-1960 | 4-2480 | 0.549 | 190.1 | -0.3 | 2.02 | 1.162 | 119.1 | 0.574 | 1.538 | 273.1 | 561.9 | 0.655 | 2.422 | 7.52 | 0.506 | 65.4 | 269.6 | 9.9 | 0.352 |
| 4-1960 | 4-2500 | 0.598 | 192.9 | -0.3 | 2.90 | 1.164 | 121.8 | 0.607 | 1.553 | 268.1 | 563.0 | 0.610 | 2.495 | 7.85 | 0.506 | 61.7 | 273.4 | 9.1 | 0.383 |
| 4-1960 | 4-2520 | 0.654 | 195.8 | -0.6 | 3.87 | 1.167 | 124.8 | 0.644 | 1.568 | 262.7 | 563.6 | 0.559 | 2.577 | 8.30 | 0.505 | 57.9 | 277.8 | 8.6 | 0.416 |
| 4-1960 | 4-2540 | 0.716 | 198.7 | -1.1 | 4.94 | 1.170 | 128.2 | 0.683 | 1.584 | 256.9 | 563.7 | 0.503 | 2.668 | 8.90 | 0.505 | 53.8 | 282.7 | 8.0 | 0.451 |
| 4-1960 | 4-2560 | 0.784 | 201.8 | -1.7 | 6.17 | 1.173 | 132.0 | 0.725 | 1.602 | 250.7 | 563.3 | 0.441 | 2.763 | 9.69 | 0.505 | 49.4 | 288.0 | 7.6 | 0.488 |
| 4-1970 | 4-2210 | 0.677 | 166.8 | -55.5 | -28.60 | 1.216 | 110.0 | 0.561 | 1.895 | 302.5 | 496.7 | 0.831 | --- | 30.19 | 0.619 | 123.1 | 286.2 | 30.1 | 0.521 |
| 4-1970 | 4-2230 | 0.524 | 165.9 | -44.7 | -19.27 | 1.196 | 108.4 | 0.513 | 1.738 | 303.7 | 503.6 | 0.847 | --- | 21.25 | 0.584 | 117.4 | 290.1 | 26.8 | 0.417 |
| 4-1970 | 4-2250 | 0.441 | 167.0 | -36.6 | -13.99 | 1.182 | 107.2 | 0.478 | 1.644 | 304.5 | 510.5 | 0.858 | --- | 16.39 | 0.559 | 112.0 | 291.1 | 24.9 | 0.347 |
| 4-1970 | 4-2270 | 0.391 | 168.5 | -30.1 | -10.59 | 1.172 | 106.5 | 0.455 | 1.585 | 305.0 | 517.1 | 0.864 | --- | 13.41 | 0.542 | 106.9 | 290.1 | 23.9 | 0.296 |
| 4-1970 | 4-2290 | 0.361 | 170.3 | -24.6 | -8.19 | 1.166 | 106.0 | 0.439 | 1.548 | 305.0 | 523.5 | 0.867 | --- | 11.44 | 0.530 | 102.2 | 287.4 | 23.3 | 0.260 |
| 4-1970 | 4-2310 | 0.344 | 172.4 | -19.8 | -6.36 | 1.162 | 105.9 | 0.431 | 1.524 | 304.6 | 529.4 | 0.867 | --- | 10.08 | 0.522 | 97.8 | 283.3 | 22.7 | 0.235 |
| 4-1970 | 4-2330 | 0.337 | 174.6 | -15.6 | -4.90 | 1.159 | 106.1 | 0.428 | 1.511 | 303.7 | 534.9 | 0.864 | --- | 9.10 | 0.517 | 93.8 | 278.4 | 21.7 | 0.220 |
| 4-1970 | 4-2350 | 0.337 | 177.1 | -12.1 | -3.69 | 1.158 | 106.5 | 0.430 | 1.505 | 302.2 | 539.9 | 0.857 | --- | 8.39 | 0.514 | 90.1 | 273.6 | 20.4 | 0.216 |
| 4-1970 | 4-2370 | 0.345 | 179.7 | -9.1 | -2.63 | 1.158 | 107.2 | 0.437 | 1.504 | 300.3 | 544.5 | 0.847 | 2.160 | 7.88 | 0.513 | 86.6 | 269.6 | 18.7 | 0.219 |
| 4-1970 | 4-2390 | 0.358 | 182.4 | -6.7 | -1.69 | 1.158 | 108.1 | 0.447 | 1.507 | 298.0 | 548.5 | 0.834 | 2.179 | 7.52 | 0.512 | 83.2 | 266.9 | 16.9 | 0.229 |
| 4-1970 | 4-2410 | 0.377 | 185.2 | -4.9 | -0.83 | 1.159 | 109.2 | 0.460 | 1.512 | 295.1 | 552.1 | 0.816 | 2.208 | 7.27 | 0.511 | 80.1 | 265.8 | 15.2 | 0.243 |
| 4-1970 | 4-2430 | 0.401 | 188.0 | -3.5 | -0.02 | 1.161 | 110.6 | 0.477 | 1.521 | 291.9 | 555.2 | 0.795 | 2.246 | 7.13 | 0.511 | 77.0 | 265.9 | 13.7 | 0.262 |
| 4-1970 | 4-2450 | 0.430 | 190.8 | -2.6 | 0.77 | 1.163 | 112.2 | 0.497 | 1.531 | 288.2 | 557.8 | 0.770 | 2.292 | 7.09 | 0.511 | 73.9 | 267.3 | 12.3 | 0.283 |
| 4-1970 | 4-2470 | 0.464 | 193.6 | -2.0 | 1.54 | 1.165 | 114.1 | 0.520 | 1.542 | 284.2 | 560.0 | 0.740 | 2.345 | 7.12 | 0.510 | 70.8 | 269.5 | 11.2 | 0.307 |
| 4-1970 | 4-2490 | 0.503 | 196.5 | -1.8 | 2.33 | 1.167 | 116.2 | 0.547 | 1.555 | 279.8 | 561.8 | 0.705 | 2.406 | 7.24 | 0.510 | 67.8 | 272.6 | 10.3 | 0.332 |
| 4-1970 | 4-2510 | 0.548 | 199.3 | -1.8 | 3.14 | 1.170 | 118.6 | 0.576 | 1.569 | 275.1 | 563.1 | 0.885 | 2.474 | 7.45 | 0.509 | 64.3 | 276.2 | 9.5 | 0.359 |
| 4-1970 | 4-2530 | 0.597 | 202.1 | -2.1 | 3.99 | 1.172 | 121.3 | 0.609 | 1.585 | 270.8 | 564.0 | 0.620 | 2.549 | 7.76 | 0.509 | 60.9 | 280.4 | 8.9 | 0.388 |
| 4-1970 | 4-2550 | 0.653 | 204.9 | -2.5 | 4.91 | 1.175 | 124.3 | 0.644 | 1.601 | 264.5 | 564.4 | 0.589 | 2.632 | 8.17 | 0.508 | 57.2 | 285.1 | 8.3 | 0.419 |
| 4-1970 | 4-2570 | 0.714 | 207.8 | -3.1 | 5.93 | 1.178 | 127.7 | 0.682 | 1.618 | 258.8 | 564.4 | 0.514 | 2.721 | 8.73 | 0.507 | 53.4 | 290.1 | 7.9 | 0.451 |
| 4-1980 | 4-2240 | 0.622 | 165.4 | -62.1 | -27.63 | 1.199 | 106.3 | 0.498 | 1.741 | 309.5 | 503.1 | 0.874 | --- | 30.37 | 0.587 | 116.4 | 288.6 | 34.7 | 0.466 |
| 4-1980 | 4-2260 | 0.465 | 167.0 | -49.4 | -17.87 | 1.186 | 105.1 | 0.464 | 1.651 | 310.7 | 510.1 | 0.885 | --- | 21.00 | 0.583 | 111.2 | 292.0 | 31.0 | 0.366 |
| 4-1980 | 4-2280 | 0.386 | 169.7 | -39.6 | -12.51 | 1.176 | 104.4 | 0.441 | 1.594 | 311.3 | 516.9 | 0.891 | --- | 16.04 | 0.546 | 106.3 | 291.9 | 28.5 | 0.303 |
| 4-1980 | 4-2300 | 0.342 | 172.6 | -31.7 | -9.11 | 1.170 | 104.0 | 0.426 | 1.559 | 311.5 | 523.2 | 0.894 | --- | 13.06 | 0.535 | 101.7 | 289.6 | 26.9 | 0.262 |
| 4-1980 | 4-2320 | 0.319 | 175.5 | -25.1 | -6.74 | 1.166 | 103.9 | 0.418 | 1.537 | 311.0 | 529.2 | 0.894 | --- | 11.11 | 0.528 | 97.6 | 285.7 | 25.5 | 0.234 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-1980 | 4-2340 | 0.309 | 178.5 | -19.5 | -4.95 | 1.164 | 104.1 | 0.416 | 1.525 | 310.1 | 534.7 | 0.891 | --- | 9.77 | 0.523 | 93.8 | 281.0 | 23.9 | 0.218 |
| 4-1980 | 4-2360 | 0.308 | 181.6 | -14.9 | -3.54 | 1.163 | 104.5 | 0.418 | 1.519 | 308.7 | 539.7 | 0.885 | --- | 8.81 | 0.520 | 90.2 | 276.3 | 22.0 | 0.212 |
| 4-1980 | 4-2380 | 0.314 | 184.7 | -11.2 | -2.36 | 1.163 | 105.1 | 0.423 | 1.519 | 306.8 | 544.2 | 0.876 | 2.162 | 8.12 | 0.518 | 86.9 | 272.5 | 19.9 | 0.215 |
| 4-1980 | 4-2400 | 0.326 | 187.8 | -8.4 | -1.34 | 1.164 | 106.0 | 0.433 | 1.522 | 304.4 | 548.2 | 0.864 | 2.180 | 7.62 | 0.517 | 83.8 | 270.0 | 17.8 | 0.223 |
| 4-1980 | 4-2420 | 0.344 | 190.9 | -6.2 | -0.44 | 1.165 | 107.1 | 0.445 | 1.528 | 301.6 | 551.7 | 0.849 | 2.208 | 7.27 | 0.516 | 80.9 | 268.9 | 15.9 | 0.236 |
| 4-1980 | 4-2440 | 0.366 | 194.0 | -4.7 | 0.39 | 1.166 | 108.4 | 0.460 | 1.537 | 298.3 | 554.8 | 0.830 | 2.244 | 7.03 | 0.516 | 78.0 | 269.1 | 14.2 | 0.252 |
| 4-1980 | 4-2460 | 0.393 | 197.0 | -3.7 | 1.17 | 1.168 | 109.9 | 0.478 | 1.547 | 294.7 | 557.5 | 0.807 | 2.287 | 6.89 | 0.515 | 75.2 | 270.4 | 12.7 | 0.271 |
| 4-1980 | 4-2480 | 0.423 | 199.9 | -3.1 | 1.91 | 1.170 | 111.6 | 0.499 | 1.559 | 290.8 | 559.8 | 0.781 | 2.337 | 6.84 | 0.514 | 72.3 | 272.6 | 11.5 | 0.292 |
| 4-1980 | 4-2500 | 0.461 | 202.8 | -2.9 | 2.65 | 1.173 | 113.6 | 0.523 | 1.572 | 286.6 | 561.6 | 0.750 | 2.394 | 6.86 | 0.514 | 69.5 | 275.5 | 10.5 | 0.315 |
| 4-1980 | 4-2520 | 0.501 | 205.6 | -3.0 | 3.38 | 1.175 | 115.7 | 0.549 | 1.586 | 282.0 | 563.1 | 0.715 | 2.457 | 6.97 | 0.513 | 66.5 | 279.1 | 9.7 | 0.339 |
| 4-1980 | 4-2540 | 0.546 | 208.4 | -3.2 | 4.14 | 1.178 | 118.2 | 0.578 | 1.601 | 277.1 | 564.1 | 0.675 | 2.527 | 7.15 | 0.512 | 63.4 | 283.1 | 9.0 | 0.364 |
| 4-1980 | 4-2560 | 0.596 | 211.2 | -3.7 | 4.93 | 1.180 | 120.8 | 0.610 | 1.617 | 272.0 | 564.8 | 0.631 | 2.604 | 7.42 | 0.511 | 60.2 | 287.5 | 8.4 | 0.391 |
| 4-1980 | 4-2580 | 0.650 | 214.0 | -4.3 | 5.78 | 1.183 | 123.8 | 0.644 | 1.634 | 266.5 | 565.1 | 0.581 | 2.687 | 7.79 | 0.510 | 56.7 | 292.3 | 7.9 | 0.420 |
| 4-1990 | 4-2170 | 0.637 | 215.9 | 31.1 | 20.09 | 1.330 | 110.0 | 0.788 | 4.047 | 314.2 | 473.1 | 0.859 | --- | -18.02 | 0.808 | 136.4 | 293.3 | -14.9 | 0.673 |
| 4-1990 | 4-2190 | 0.675 | 229.9 | 40.7 | 27.29 | 1.279 | 107.5 | 0.666 | 2.634 | 315.7 | 480.4 | 0.879 | --- | -24.88 | 0.725 | 130.9 | 292.7 | -22.6 | 0.599 |
| 4-1990 | 4-2210 | 0.878 | 255.4 | 45.5 | 42.53 | 1.244 | 105.2 | 0.578 | 2.129 | 317.8 | 487.8 | 0.898 | --- | -39.76 | 0.865 | 125.3 | 286.1 | -34.4 | 0.614 |
| 4-1990 | 4-2250 | 0.952 | 169.2 | -86.6 | -48.88 | 1.201 | 104.3 | 0.485 | 1.740 | 314.9 | 503.0 | 0.897 | --- | 52.35 | 0.588 | 115.4 | 278.7 | 41.7 | 0.632 |
| 4-1990 | 4-2270 | 0.564 | 161.1 | -66.3 | -25.73 | 1.188 | 103.0 | 0.450 | 1.655 | 317.1 | 510.1 | 0.909 | --- | 29.56 | 0.566 | 110.2 | 290.2 | 38.6 | 0.419 |
| 4-1990 | 4-2290 | 0.406 | 167.5 | -51.9 | -15.86 | 1.180 | 102.3 | 0.428 | 1.601 | 318.0 | 516.9 | 0.916 | --- | 20.05 | 0.550 | 105.5 | 292.6 | 34.3 | 0.322 |
| 4-1990 | 4-2310 | 0.334 | 172.7 | -40.5 | -10.61 | 1.174 | 101.9 | 0.414 | 1.568 | 318.2 | 523.3 | 0.918 | --- | 15.18 | 0.539 | 101.2 | 291.1 | 31.1 | 0.268 |
| 4-1990 | 4-2330 | 0.298 | 177.3 | -31.2 | -7.35 | 1.171 | 101.9 | 0.407 | 1.548 | 317.8 | 529.3 | 0.918 | --- | 12.30 | 0.532 | 97.2 | 287.6 | 28.5 | 0.236 |
| 4-1990 | 4-2350 | 0.283 | 181.4 | -23.6 | -5.09 | 1.169 | 102.0 | 0.405 | 1.537 | 316.9 | 534.7 | 0.915 | --- | 10.44 | 0.528 | 93.8 | 283.0 | 26.0 | 0.217 |
| 4-1990 | 4-2370 | 0.279 | 185.4 | -17.6 | -3.40 | 1.168 | 102.5 | 0.407 | 1.532 | 315.4 | 539.6 | 0.909 | --- | 9.17 | 0.525 | 90.2 | 278.6 | 23.5 | 0.210 |
| 4-1990 | 4-2390 | 0.285 | 189.2 | -13.0 | -2.07 | 1.168 | 103.1 | 0.412 | 1.533 | 313.4 | 544.1 | 0.901 | 2.164 | 8.26 | 0.523 | 87.2 | 275.0 | 20.9 | 0.211 |
| 4-1990 | 4-2410 | 0.296 | 192.9 | -9.5 | -0.96 | 1.169 | 104.0 | 0.420 | 1.537 | 311.0 | 548.0 | 0.891 | 2.183 | 7.61 | 0.522 | 84.3 | 272.6 | 18.4 | 0.217 |
| 4-1990 | 4-2430 | 0.313 | 196.4 | -7.1 | -0.02 | 1.170 | 105.0 | 0.432 | 1.544 | 308.2 | 551.5 | 0.878 | 2.210 | 7.14 | 0.521 | 81.5 | 271.7 | 16.2 | 0.229 |
| 4-1990 | 4-2450 | 0.334 | 199.8 | -5.4 | 0.82 | 1.172 | 106.2 | 0.445 | 1.553 | 304.9 | 554.6 | 0.861 | 2.244 | 6.81 | 0.520 | 78.8 | 272.0 | 14.4 | 0.244 |
| 4-1990 | 4-2470 | 0.359 | 203.0 | -4.3 | 1.58 | 1.173 | 107.6 | 0.462 | 1.564 | 301.4 | 557.3 | 0.842 | 2.285 | 6.58 | 0.519 | 76.2 | 273.3 | 12.8 | 0.261 |
| 4-1990 | 4-2490 | 0.389 | 206.1 | -3.8 | 2.30 | 1.176 | 109.2 | 0.481 | 1.576 | 297.5 | 559.5 | 0.819 | 2.333 | 6.44 | 0.518 | 73.8 | 275.5 | 11.5 | 0.279 |
| 4-1990 | 4-2510 | 0.422 | 209.1 | -3.6 | 2.98 | 1.178 | 111.0 | 0.502 | 1.589 | 293.3 | 561.4 | 0.792 | 2.386 | 6.38 | 0.517 | 71.0 | 278.4 | 10.4 | 0.300 |
| 4-1990 | 4-2530 | 0.458 | 212.0 | -3.7 | 3.65 | 1.180 | 113.0 | 0.525 | 1.603 | 288.9 | 563.0 | 0.761 | 2.448 | 6.40 | 0.516 | 68.3 | 281.8 | 9.6 | 0.321 |
| 4-1990 | 4-2550 | 0.499 | 214.8 | -4.1 | 4.32 | 1.183 | 115.2 | 0.551 | 1.618 | 284.2 | 564.2 | 0.726 | 2.511 | 6.48 | 0.515 | 65.5 | 285.7 | 8.8 | 0.344 |
| 4-1990 | 4-2570 | 0.544 | 217.5 | -4.6 | 5.00 | 1.185 | 117.6 | 0.580 | 1.634 | 279.3 | 565.1 | 0.687 | 2.581 | 6.63 | 0.513 | 62.6 | 290.0 | 8.2 | 0.367 |
| 4-1990 | 4-2590 | 0.593 | 220.3 | -5.2 | 5.71 | 1.188 | 120.3 | 0.610 | 1.651 | 274.1 | 565.6 | 0.643 | 2.658 | 6.86 | 0.512 | 59.6 | 294.6 | 7.7 | 0.392 |
| 4-2000 | 4-2160 | 0.606 | 210.0 | 18.8 | 12.92 | 1.393 | 109.7 | 0.930 | 12.506 | 319.0 | 465.3 | 0.872 | --- | -10.37 | 0.904 | 139.9 | 295.5 | -8.0 | 0.756 |
| 4-2000 | 4-2180 | 0.545 | 214.8 | 26.5 | 15.28 | 1.324 | 107.1 | 0.761 | 3.731 | 320.2 | 472.6 | 0.890 | --- | -12.40 | 0.797 | 134.8 | 297.5 | -11.1 | 0.633 |
| 4-2000 | 4-2200 | 0.531 | 222.3 | 35.6 | 18.88 | 1.276 | 104.8 | 0.644 | 2.543 | 321.8 | 480.1 | 0.906 | --- | -15.68 | 0.718 | 129.4 | 298.6 | -16.0 | 0.543 |
| 4-2000 | 4-2220 | 0.585 | 235.8 | 44.8 | 25.14 | 1.242 | 102.9 | 0.560 | 2.091 | 323.6 | 487.9 | 0.920 | --- | -21.61 | 0.660 | 124.0 | 297.6 | -24.3 | 0.490 |
| 4-2000 | 4-2240 | 0.782 | 260.6 | 49.6 | 38.55 | 1.219 | 101.2 | 0.500 | 1.864 | 325.8 | 495.7 | 0.932 | --- | -34.71 | 0.618 | 118.5 | 290.9 | -36.8 | 0.517 |
| 4-2000 | 4-2280 | 0.912 | 61.4 | -85.5 | -47.34 | 1.190 | 101.0 | 0.439 | 1.655 | 323.1 | 510.4 | 0.929 | --- | 51.83 | 0.567 | 109.3 | 280.6 | 44.4 | 0.602 |
| 4-2000 | 4-2300 | 0.497 | 155.5 | -67.8 | -22.90 | 1.183 | 100.1 | 0.417 | 1.605 | 325.0 | 517.3 | 0.937 | --- | 27.71 | 0.552 | 104.6 | 291.0 | 41.5 | 0.375 |
| 4-2000 | 4-2320 | 0.347 | 168.6 | -51.8 | -13.29 | 1.177 | 99.8 | 0.404 | 1.575 | 325.4 | 523.8 | 0.939 | --- | 18.43 | 0.542 | 100.4 | 291.8 | 36.3 | 0.285 |
| 4-2000 | 4-2340 | 0.284 | 176.7 | -38.7 | -8.35 | 1.174 | 99.8 | 0.397 | 1.557 | 325.0 | 529.7 | 0.939 | --- | 13.83 | 0.536 | 96.7 | 288.9 | 32.0 | 0.240 |
| 4-2000 | 4-2360 | 0.259 | 182.9 | -28.1 | -5.34 | 1.173 | 100.0 | 0.395 | 1.547 | 324.0 | 535.0 | 0.936 | --- | 11.16 | 0.531 | 93.2 | 284.6 | 28.2 | 0.217 |
| 4-2000 | 4-2380 | 0.252 | 188.3 | -20.0 | -3.27 | 1.172 | 100.4 | 0.397 | 1.544 | 322.4 | 539.8 | 0.931 | --- | 9.45 | 0.529 | 90.1 | 280.4 | 24.7 | 0.208 |
| 4-2000 | 4-2400 | 0.256 | 193.1 | -14.1 | -1.74 | 1.172 | 101.1 | 0.402 | 1.546 | 320.4 | 544.2 | 0.924 | 2.167 | 8.29 | 0.527 | 87.2 | 277.0 | 21.5 | 0.207 |
| 4-2000 | 4-2420 | 0.267 | 197.4 | -9.9 | -0.54 | 1.173 | 101.9 | 0.410 | 1.551 | 317.9 | 548.0 | 0.915 | 2.186 | 7.46 | 0.525 | 84.5 | 275.0 | 18.6 | 0.213 |
| 4-2000 | 4-2440 | 0.283 | 201.5 | -7.1 | 0.45 | 1.175 | 102.9 | 0.420 | 1.558 | 315.0 | 551.4 | 0.904 | 2.213 | 6.87 | 0.524 | 81.9 | 274.2 | 16.2 | 0.223 |
| 4-2000 | 4-2460 | 0.304 | 205.3 | -5.2 | 1.30 | 1.176 | 104.1 | 0.433 | 1.568 | 311.7 | 554.4 | 0.889 | 2.247 | 6.44 | 0.523 | 79.5 | 274.6 | 14.2 | 0.236 |
| 4-2000 | 4-2480 | 0.328 | 208.8 | -4.2 | 2.05 | 1.178 | 105.4 | 0.448 | 1.579 | 308.1 | 557.1 | 0.872 | 2.286 | 6.14 | 0.522 | 77.1 | 276.0 | 12.5 | 0.252 |
| 4-2000 | 4-2500 | 0.355 | 212.1 | -3.7 | 2.73 | 1.180 | 106.9 | 0.465 | 1.592 | 304.3 | 559.3 | 0.852 | 2.331 | 5.93 | 0.521 | 74.7 | 278.3 | 11.1 | 0.268 |
| 4-2000 | 4-2520 | 0.385 | 215.3 | -3.7 | 3.36 | 1.183 | 108.6 | 0.484 | 1.606 | 300.2 | 561.3 | 0.829 | 2.382 | 5.79 | 0.520 | 72.3 | 281.1 | 10.1 | 0.286 |
| 4-2000 | 4-2540 | 0.419 | 218.2 | -3.9 | 3.96 | 1.185 | 110.4 | 0.505 | 1.620 | 295.9 | 562.9 | 0.802 | 2.438 | 5.73 | 0.519 | 69.9 | 284.5 | 9.2 | 0.305 |
| 4-2000 | 4-2560 | 0.456 | 221.1 | -4.4 | 4.55 | 1.187 | 112.4 | 0.528 | 1.635 | 291.3 | 564.2 | 0.772 | 2.499 | 5.73 | 0.517 | 67.3 | 288.3 | 8.4 | 0.325 |
| 4-2000 | 4-2580 | 0.497 | 223.9 | -5.0 | 5.13 | 1.190 | 114.6 | 0.553 | 1.651 | 286.6 | 565.2 | 0.737 | 2.565 | 5.79 | 0.516 | 64.8 | 292.5 | 7.8 | 0.346 |
| 4-2000 | 4-2600 | 0.541 | 226.6 | -5.7 | 5.72 | 1.192 | 117.0 | 0.581 | 1.667 | 281.6 | 565.9 | 0.699 | 2.636 | 5.91 | 0.514 | 62.0 | 296.9 | 7.3 | 0.368 |
| 4-2010 | 4-2150 | 0.641 | 209.7 | 11.3 | 9.85 | 1.477 | 109.1 | 1.138 | -6.425 | 324.2 | 457.7 | 0.888 | --- | -6.75 | 1.024 | 143.1 | 296.5 | -4.7 | 0.874 |
| 4-2010 | 4-2170 | 0.538 | 212.1 | 16.8 | 10.94 | 1.382 | 106.3 | 0.895 | 8.600 | 325.3 | 464.8 | 0.905 | --- | -7.54 | 0.885 | 138.3 | 298.9 | -6.2 | 0.719 |
| 4-2010 | 4-2190 | 0.473 | 215.1 | 23.7 | 12.37 | 1.317 | 103.9 | 0.731 | 3.421 | 326.9 | 472.4 | 0.920 | --- | -8.67 | 0.783 | 133.2 | 301.0 | -8.3 | 0.598 |
| 4-2010 | 4-2210 | 0.442 | 219.3 | 31.8 | 14.35 | 1.271 | 101.9 | 0.618 | 2.443 | 328.6 | 480.4 | 0.932 | --- | -10.38 | 0.709 | 127.8 | 302.4 | -11.5 | 0.504 |
| 4-2010 | 4-2230 | 0.446 | 226.2 | 40.6 | 17.35 | 1.240 | 100.2 | 0.539 | 2.046 | 330.5 | 488.4 | 0.943 | --- | -13.09 | 0.654 | 122.4 | 302.9 | -16.7 | 0.435 |
| 4-2010 | 4-2250 | 0.505 | 238.7 | 49.1 | 22.59 | 1.218 | 98.9 | 0.484 | 1.842 | 332.4 | 496.4 | 0.951 | --- | -18.04 | 0.615 | 117.2 | 301.4 | -25.3 | 0.397 |
| 4-2010 | 4-2270 | 0.684 | 262.6 | 54.0 | 34.02 | 1.202 | 97.8 | 0.445 | 1.724 | 334.3 | 504.3 | 0.957 | --- | -29.20 | 0.587 | 112.1 | 294.9 | -38.3 | 0.428 |
| 4-2010 | 4-2310 | 0.853 | 58.2 | -80.2 | -44.38 | 1.185 | 98.1 | 0.407 | 1.607 | 331.7 | 518.1 | 0.953 | --- | 49.75 | 0.553 | 103.7 | 282.8 | 46.5 | 0.566 |
| 4-2010 | 4-2330 | 0.421 | 152.8 | -66.2 | -19.16 | 1.180 | 97.6 | 0.394 | 1.580 | 332.8 | 524.5 | 0.957 | --- | 24.81 | 0.544 | 99.6 | 290.8 | 42.9 | 0.331 |
| 4-2010 | 4-2350 | 0.287 | 171.9 | -48.2 | -10.22 | 1.177 | 97.6 | 0.389 | 1.564 | 332.5 | 530.4 | 0.956 | --- | 16.15 | 0.538 | 96.0 | 289.5 | 36.2 | 0.252 |
| 4-2010 | 4-2370 | 0.240 | 182.3 | -33.3 | -5.80 | 1.176 | 97.9 | 0.387 | 1.557 | 331.4 | 535.6 | 0.954 | --- | 12.02 | 0.534 | 92.8 | 285.7 | 30.5 | 0.219 |
| 4-2010 | 4-2390 | 0.227 | 189.9 | -22.0 | -3.15 | 1.176 | 98.3 | 0.389 | 1.555 | 329.8 | 540.3 | 0.950 | 2.160 | 9.66 | 0.532 | 89.8 | 281.8 | 25.7 | 0.206 |
| 4-2010 | 4-2410 | 0.230 | 196.0 | -14.2 | -1.35 | 1.176 | 99.0 | 0.394 | 1.558 | 327.6 | 544.5 | 0.944 | 2.172 | 8.16 | 0.530 | 87.1 | 278.7 | 21.7 | 0.204 |
| 4-2010 | 4-2430 | 0.241 | 201.4 | -9.1 | -0.02 | 1.177 | 99.8 | 0.401 | 1.564 | 325.0 | 548.2 | 0.936 | 2.191 | 7.15 | 0.529 | 84.6 | 276.9 | 18.3 | 0.208 |
| 4-2010 | 4-2450 | 0.256 | 206.1 | -5.9 | 1.01 | 1.179 | 100.8 | 0.411 | 1.572 | 322.0 | 551.5 | 0.926 | 2.218 | 6.43 | 0.527 | 82.2 | 276.4 | 15.6 | 0.218 |
| 4-2010 | 4-2470 | 0.276 | 210.3 | -4.0 | 1.86 | 1.181 | 102.0 | 0.422 | 1.583 | 318.6 | 554.4 | 0.914 | 2.251 | 5.92 | 0.526 | 79.9 | 277.0 | 13.5 | 0.230 |
| 4-2010 | 4-2490 | 0.298 | 214.2 | -3.1 | 2.58 | 1.183 | 103.2 | 0.436 | 1.595 | 315.0 | 557.0 | 0.900 | 2.289 | 5.54 | 0.525 | 77.7 | 278.6 | 11.7 | 0.244 |
| 4-2010 | 4-2510 | 0.324 | 217.8 | -2.8 | 3.22 | 1.185 | 104.7 | 0.451 | 1.608 | 311.2 | 559.2 | 0.883 | 2.332 | 5.28 | 0.524 | 75.5 | 280.9 | 10.4 | 0.259 |
| 4-2010 | 4-2530 | 0.352 | 221.1 | -3.0 | 3.79 | 1.187 | 106.2 | 0.468 | 1.622 | 307.1 | 561.1 | 0.863 | 2.381 | 5.09 | 0.523 | 73.3 | 283.8 | 9.3 | 0.275 |
| 4-2010 | 4-2550 | 0.383 | 224.3 | -3.4 | 4.32 | 1.189 | 107.9 | 0.487 | 1.636 | 302.9 | 562.8 | 0.840 | 2.433 | 4.97 | 0.521 | 71.1 | 287.1 | 8.4 | 0.292 |
| 4-2010 | 4-2570 | 0.417 | 227.2 | -4.1 | 4.83 | 1.192 | 109.8 | 0.508 | 1.652 | 298.4 | 564.1 | 0.813 | 2.491 | 4.90 | 0.520 | 68.8 | 290.9 | 7.7 | 0.310 |
| 4-2010 | 4-2590 | 0.453 | 230.1 | -4.8 | 5.32 | 1.194 | 111.8 | 0.530 | 1.668 | 293.8 | 565.2 | 0.783 | 2.552 | 4.89 | 0.518 | 66.5 | 295.0 | 7.1 | 0.328 |
| 4-2010 | 4-2610 | 0.493 | 232.8 | -5.7 | 5.80 | 1.197 | 113.9 | 0.555 | 1.684 | 289.0 | 566.1 | 0.750 | 2.618 | 4.93 | 0.517 | 64.1 | 299.3 | 6.6 | 0.347 |
| 4-2020 | 4-2160 | 0.572 | 212.1 | 10.8 | 8.87 | 1.458 | 105.2 | 1.088 | 10.486 | 330.8 | 457.3 | 0.921 | --- | -4.85 | 0.996 | 141.4 | 299.7 | -3.8 | 0.831 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2020 | 4-2180 | 0.475 | 213.6 | 16.2 | 9.57 | 1.368 | 102.7 | 0.854 | 6.380 | 332.3 | 464.9 | 0.934 | --- | -5.30 | 0.864 | 136.6 | 302.0 | -4.6 | 0.681 |
| 4-2020 | 4-2200 | 0.412 | 215.1 | 22.6 | 10.43 | 1.307 | 100.6 | 0.698 | 3.126 | 334.1 | 472.9 | 0.945 | --- | -5.92 | 0.767 | 131.4 | 303.9 | -6.0 | 0.564 |
| 4-2020 | 4-2220 | 0.376 | 217.3 | 29.9 | 11.55 | 1.265 | 98.8 | 0.591 | 2.335 | 336.2 | 481.2 | 0.955 | --- | -6.80 | 0.697 | 126.1 | 305.4 | -8.1 | 0.472 |
| 4-2020 | 4-2240 | 0.363 | 220.6 | 37.7 | 13.11 | 1.236 | 97.4 | 0.518 | 1.994 | 338.3 | 489.5 | 0.962 | --- | -8.13 | 0.646 | 120.8 | 306.1 | -11.3 | 0.400 |
| 4-2020 | 4-2260 | 0.377 | 226.3 | 45.5 | 15.47 | 1.216 | 96.3 | 0.467 | 1.814 | 340.2 | 497.7 | 0.967 | --- | -10.26 | 0.609 | 115.6 | 305.7 | -16.4 | 0.346 |
| 4-2020 | 4-2280 | 0.430 | 237.1 | 52.9 | 19.59 | 1.202 | 95.5 | 0.432 | 1.709 | 341.8 | 505.6 | 0.971 | --- | -14.16 | 0.584 | 110.8 | 303.5 | -24.9 | 0.317 |
| 4-2020 | 4-2300 | 0.579 | 259.5 | 58.2 | 28.75 | 1.192 | 94.9 | 0.408 | 1.645 | 343.1 | 513.1 | 0.973 | --- | -23.09 | 0.566 | 106.2 | 297.4 | -38.3 | 0.344 |
| 4-2020 | 4-2320 | 1.131 | 302.8 | 49.8 | 61.25 | 1.186 | 94.2 | 0.392 | 1.605 | 344.9 | 520.2 | 0.976 | --- | -55.36 | 0.553 | 101.9 | 281.5 | -46.7 | 0.613 |
| 4-2020 | 4-2340 | 0.765 | 68.8 | -75.8 | -39.61 | 1.182 | 95.5 | 0.387 | 1.582 | 340.1 | 525.6 | 0.969 | --- | 45.71 | 0.545 | 98.8 | 285.2 | 48.2 | 0.517 |
| 4-2020 | 4-2360 | 0.335 | 156.5 | -60.9 | -14.50 | 1.180 | 95.4 | 0.382 | 1.569 | 340.3 | 531.4 | 0.970 | --- | 20.83 | 0.540 | 95.3 | 289.3 | 42.0 | 0.286 |
| 4-2020 | 4-2380 | 0.231 | 178.2 | -39.6 | -6.71 | 1.179 | 95.7 | 0.381 | 1.564 | 339.2 | 536.5 | 0.968 | --- | 13.26 | 0.536 | 92.2 | 286.3 | 33.2 | 0.225 |
| 4-2020 | 4-2400 | 0.206 | 189.8 | -23.2 | -3.01 | 1.179 | 96.2 | 0.383 | 1.564 | 337.4 | 541.0 | 0.965 | 2.184 | 9.79 | 0.534 | 89.4 | 282.7 | 26.3 | 0.205 |
| 4-2020 | 4-2420 | 0.206 | 198.0 | -12.7 | -0.83 | 1.180 | 96.9 | 0.388 | 1.568 | 335.0 | 545.0 | 0.960 | 2.177 | 7.84 | 0.532 | 86.9 | 280.0 | 21.2 | 0.200 |
| 4-2020 | 4-2440 | 0.217 | 204.5 | -6.5 | 0.64 | 1.181 | 97.7 | 0.395 | 1.576 | 332.3 | 548.5 | 0.954 | 2.198 | 6.61 | 0.531 | 84.5 | 278.6 | 17.3 | 0.204 |
| 4-2020 | 4-2460 | 0.233 | 210.0 | -3.0 | 1.71 | 1.183 | 98.7 | 0.403 | 1.585 | 329.2 | 551.7 | 0.946 | 2.225 | 5.78 | 0.530 | 82.3 | 278.4 | 14.4 | 0.213 |
| 4-2020 | 4-2480 | 0.251 | 214.8 | -1.3 | 2.54 | 1.184 | 99.8 | 0.414 | 1.596 | 325.8 | 554.5 | 0.936 | 2.257 | 5.19 | 0.529 | 80.2 | 279.2 | 12.2 | 0.224 |
| 4-2020 | 4-2500 | 0.273 | 219.2 | -0.7 | 3.22 | 1.186 | 101.1 | 0.426 | 1.609 | 322.1 | 557.0 | 0.924 | 2.295 | 4.77 | 0.528 | 78.1 | 280.9 | 10.5 | 0.237 |
| 4-2020 | 4-2520 | 0.296 | 223.1 | -0.7 | 3.80 | 1.189 | 102.4 | 0.440 | 1.623 | 318.3 | 559.2 | 0.909 | 2.336 | 4.47 | 0.526 | 76.1 | 283.3 | 9.1 | 0.251 |
| 4-2020 | 4-2540 | 0.322 | 226.6 | -1.2 | 4.30 | 1.191 | 103.9 | 0.455 | 1.637 | 314.2 | 561.0 | 0.892 | 2.382 | 4.24 | 0.525 | 74.1 | 286.3 | 8.1 | 0.265 |
| 4-2020 | 4-2560 | 0.350 | 230.0 | -2.0 | 4.76 | 1.193 | 105.5 | 0.472 | 1.653 | 310.0 | 562.7 | 0.873 | 2.433 | 4.09 | 0.523 | 72.1 | 289.7 | 7.3 | 0.280 |
| 4-2020 | 4-2580 | 0.381 | 233.1 | -2.9 | 5.18 | 1.196 | 107.2 | 0.490 | 1.668 | 305.6 | 564.1 | 0.850 | 2.487 | 3.98 | 0.522 | 70.1 | 293.4 | 6.6 | 0.296 |
| 4-2020 | 4-2600 | 0.414 | 236.0 | -4.0 | 5.57 | 1.198 | 109.1 | 0.510 | 1.684 | 301.1 | 565.2 | 0.825 | 2.544 | 3.92 | 0.520 | 68.0 | 297.4 | 6.1 | 0.312 |
| 4-2020 | 4-2620 | 0.450 | 238.8 | -5.0 | 5.96 | 1.201 | 111.1 | 0.532 | 1.701 | 296.5 | 566.2 | 0.796 | 2.606 | 3.90 | 0.519 | 65.8 | 301.6 | 5.6 | 0.329 |
| 4-2030 | 4-2150 | 0.639 | 212.2 | 7.0 | 7.78 | 1.560 | 103.5 | 1.377 | -2.486 | 336.8 | 450.2 | 0.938 | --- | -3.04 | 1.138 | 144.1 | 300.3 | -2.1 | 0.973 |
| 4-2030 | 4-2170 | 0.507 | 213.2 | 11.3 | 8.14 | 1.436 | 101.1 | 1.029 | 33.191 | 338.1 | 457.5 | 0.948 | --- | -3.20 | 0.964 | 139.7 | 302.5 | -2.5 | 0.785 |
| 4-2030 | 4-2190 | 0.418 | 213.6 | 16.8 | 8.57 | 1.353 | 99.0 | 0.807 | 4.974 | 339.9 | 465.5 | 0.958 | --- | -3.43 | 0.840 | 134.8 | 304.7 | -3.2 | 0.642 |
| 4-2030 | 4-2210 | 0.360 | 213.8 | 23.0 | 9.06 | 1.297 | 97.1 | 0.662 | 2.853 | 342.2 | 474.0 | 0.986 | --- | -3.74 | 0.749 | 129.6 | 306.4 | -4.1 | 0.530 |
| 4-2030 | 4-2230 | 0.325 | 214.1 | 29.7 | 9.68 | 1.258 | 95.6 | 0.563 | 2.224 | 344.6 | 482.7 | 0.972 | --- | -4.18 | 0.683 | 124.3 | 307.7 | -5.4 | 0.441 |
| 4-2030 | 4-2250 | 0.307 | 214.9 | 36.4 | 10.48 | 1.231 | 94.3 | 0.496 | 1.937 | 346.9 | 491.3 | 0.976 | --- | -4.80 | 0.636 | 119.0 | 308.2 | -7.2 | 0.370 |
| 4-2030 | 4-2270 | 0.304 | 216.8 | 42.9 | 11.58 | 1.213 | 93.5 | 0.451 | 1.782 | 348.9 | 499.7 | 0.979 | --- | -5.73 | 0.603 | 114.0 | 307.8 | -10.1 | 0.315 |
| 4-2030 | 4-2290 | 0.318 | 221.0 | 49.0 | 13.25 | 1.200 | 92.9 | 0.420 | 1.690 | 350.4 | 507.6 | 0.980 | --- | -7.24 | 0.579 | 109.2 | 306.2 | -14.6 | 0.274 |
| 4-2030 | 4-2310 | 0.358 | 229.4 | 55.1 | 16.16 | 1.192 | 92.5 | 0.400 | 1.635 | 351.3 | 515.0 | 0.981 | --- | -9.98 | 0.563 | 104.9 | 302.9 | -22.1 | 0.251 |
| 4-2030 | 4-2330 | 0.466 | 248.3 | 61.0 | 22.69 | 1.186 | 92.3 | 0.387 | 1.601 | 351.6 | 521.6 | 0.981 | --- | -16.36 | 0.552 | 100.9 | 297.4 | -34.9 | 0.267 |
| 4-2030 | 4-2350 | 0.926 | 298.6 | 58.4 | 49.05 | 1.183 | 92.2 | 0.379 | 1.582 | 351.9 | 527.8 | 0.982 | --- | -42.56 | 0.545 | 97.3 | 286.4 | -48.9 | 0.486 |
| 4-2030 | 4-2370 | 0.632 | 87.5 | -72.2 | -32.23 | 1.181 | 93.2 | 0.378 | 1.572 | 348.2 | 532.7 | 0.979 | --- | 38.88 | 0.540 | 94.4 | 287.2 | 49.2 | 0.447 |
| 4-2030 | 4-2390 | 0.245 | 167.6 | -49.0 | -8.95 | 1.181 | 93.5 | 0.377 | 1.570 | 347.3 | 537.6 | 0.978 | --- | 15.75 | 0.537 | 91.4 | 286.5 | 37.3 | 0.241 |
| 4-2030 | 4-2410 | 0.188 | 188.0 | -23.1 | -2.83 | 1.181 | 94.0 | 0.379 | 1.572 | 345.3 | 541.9 | 0.976 | 2.168 | 9.80 | 0.535 | 88.8 | 283.3 | 26.6 | 0.204 |
| 4-2030 | 4-2430 | 0.187 | 199.0 | -8.3 | -0.04 | 1.182 | 94.8 | 0.384 | 1.578 | 342.8 | 545.7 | 0.972 | 2.183 | 7.17 | 0.534 | 86.5 | 280.9 | 19.7 | 0.197 |
| 4-2030 | 4-2450 | 0.198 | 206.9 | -1.1 | 1.57 | 1.184 | 95.6 | 0.390 | 1.586 | 339.8 | 549.1 | 0.967 | 2.205 | 5.72 | 0.533 | 84.3 | 279.9 | 15.3 | 0.200 |
| 4-2030 | 4-2470 | 0.214 | 213.3 | 2.3 | 2.65 | 1.186 | 96.6 | 0.398 | 1.597 | 336.6 | 552.1 | 0.961 | 2.233 | 4.81 | 0.532 | 82.2 | 280.0 | 12.2 | 0.209 |
| 4-2030 | 4-2490 | 0.232 | 218.7 | 3.5 | 3.43 | 1.188 | 97.7 | 0.407 | 1.609 | 333.1 | 554.7 | 0.954 | 2.265 | 4.20 | 0.531 | 80.3 | 281.2 | 10.1 | 0.219 |
| 4-2030 | 4-2510 | 0.251 | 223.4 | 3.5 | 4.03 | 1.190 | 98.9 | 0.418 | 1.623 | 329.4 | 557.1 | 0.944 | 2.302 | 3.77 | 0.529 | 78.4 | 283.1 | 8.5 | 0.231 |
| 4-2030 | 4-2530 | 0.273 | 227.7 | 2.8 | 4.52 | 1.192 | 100.2 | 0.431 | 1.637 | 325.4 | 559.2 | 0.932 | 2.342 | 3.46 | 0.528 | 76.6 | 285.6 | 7.3 | 0.244 |
| 4-2030 | 4-2550 | 0.296 | 231.6 | 1.8 | 4.93 | 1.194 | 101.6 | 0.444 | 1.652 | 321.4 | 561.0 | 0.918 | 2.387 | 3.23 | 0.527 | 74.7 | 288.7 | 6.4 | 0.257 |
| 4-2030 | 4-2570 | 0.322 | 235.1 | 0.5 | 5.29 | 1.197 | 103.2 | 0.459 | 1.668 | 317.2 | 562.7 | 0.902 | 2.435 | 3.07 | 0.525 | 72.9 | 292.1 | 5.7 | 0.271 |
| 4-2030 | 4-2590 | 0.349 | 238.5 | -0.9 | 5.62 | 1.199 | 104.8 | 0.476 | 1.684 | 312.8 | 564.1 | 0.883 | 2.486 | 2.95 | 0.524 | 71.1 | 295.8 | 5.1 | 0.284 |
| 4-2030 | 4-2610 | 0.379 | 241.6 | -2.3 | 5.91 | 1.202 | 106.5 | 0.494 | 1.701 | 308.4 | 565.3 | 0.861 | 2.540 | 2.86 | 0.522 | 69.2 | 299.8 | 4.7 | 0.299 |
| 4-2030 | 4-2630 | 0.410 | 244.5 | -3.6 | 6.19 | 1.204 | 108.3 | 0.513 | 1.718 | 303.9 | 566.3 | 0.837 | 2.598 | 2.81 | 0.521 | 67.2 | 304.0 | 4.3 | 0.313 |
| 4-2040 | 4-2160 | 0.567 | 212.4 | 8.3 | 7.42 | 1.527 | 98.9 | 1.287 | -3.355 | 344.2 | 450.6 | 0.983 | --- | -1.66 | 1.093 | 142.5 | 303.0 | -1.2 | 0.916 |
| 4-2040 | 4-2180 | 0.449 | 212.3 | 13.0 | 7.61 | 1.412 | 96.9 | 0.962 | 25.692 | 346.0 | 458.5 | 0.969 | --- | -1.72 | 0.929 | 138.0 | 305.1 | -1.4 | 0.738 |
| 4-2040 | 4-2200 | 0.370 | 211.4 | 18.6 | 7.82 | 1.336 | 95.0 | 0.758 | 4.022 | 348.4 | 467.0 | 0.975 | --- | -1.81 | 0.812 | 132.9 | 306.9 | -1.8 | 0.602 |
| 4-2040 | 4-2220 | 0.319 | 209.9 | 24.7 | 8.06 | 1.284 | 93.4 | 0.624 | 2.605 | 351.1 | 476.0 | 0.979 | --- | -1.94 | 0.728 | 127.7 | 308.4 | -2.2 | 0.496 |
| 4-2040 | 4-2240 | 0.287 | 208.3 | 30.7 | 8.35 | 1.249 | 92.2 | 0.536 | 2.113 | 353.8 | 485.1 | 0.982 | --- | -2.11 | 0.668 | 122.3 | 309.4 | -2.9 | 0.412 |
| 4-2040 | 4-2260 | 0.269 | 206.9 | 36.3 | 8.69 | 1.225 | 91.2 | 0.476 | 1.877 | 356.3 | 494.0 | 0.983 | --- | -2.36 | 0.624 | 117.1 | 309.5 | -3.8 | 0.344 |
| 4-2040 | 4-2280 | 0.261 | 206.2 | 41.1 | 9.15 | 1.209 | 90.5 | 0.437 | 1.746 | 358.4 | 502.4 | 0.984 | --- | -2.71 | 0.594 | 112.2 | 308.7 | -5.1 | 0.291 |
| 4-2040 | 4-2300 | 0.261 | 206.9 | 45.3 | 9.77 | 1.198 | 90.1 | 0.410 | 1.668 | 359.7 | 510.3 | 0.984 | --- | -3.23 | 0.573 | 107.6 | 306.8 | -7.1 | 0.249 |
| 4-2040 | 4-2320 | 0.269 | 209.4 | 49.2 | 10.70 | 1.190 | 89.9 | 0.393 | 1.622 | 0.4 | 157.4 | --- | --- | -4.07 | 0.559 | 103.4 | 303.6 | -10.2 | 0.219 |
| 4-2040 | 4-2340 | 0.290 | 215.0 | 53.3 | 12.33 | 1.186 | 89.9 | 0.383 | 1.594 | 0.3 | 163.8 | --- | --- | -5.60 | 0.550 | 99.6 | 299.2 | -15.3 | 0.201 |
| 4-2040 | 4-2360 | 0.347 | 227.4 | 59.0 | 15.98 | 1.183 | 90.1 | 0.377 | 1.579 | 359.6 | 529.5 | 0.984 | --- | -9.16 | 0.544 | 96.2 | 294.0 | -25.0 | 0.203 |
| 4-2040 | 4-2380 | 0.625 | 273.0 | 66.0 | 31.92 | 1.182 | 90.4 | 0.375 | 1.573 | 358.4 | 534.7 | 0.984 | --- | -25.01 | 0.540 | 93.2 | 288.5 | -45.8 | 0.318 |
| 4-2040 | 4-2400 | 0.424 | 122.4 | -66.6 | -20.46 | 1.182 | 91.2 | 0.375 | 1.573 | 355.5 | 539.0 | 0.983 | --- | 27.48 | 0.537 | 90.6 | 287.3 | 47.0 | 0.339 |
| 4-2040 | 4-2420 | 0.176 | 185.0 | -20.6 | -2.47 | 1.183 | 91.8 | 0.378 | 1.578 | 353.4 | 543.1 | 0.982 | 2.174 | 9.55 | 0.536 | 88.1 | 283.4 | 26.0 | 0.203 |
| 4-2040 | 4-2440 | 0.176 | 200.2 | 1.5 | 1.38 | 1.184 | 92.6 | 0.382 | 1.585 | 350.7 | 546.6 | 0.980 | 2.191 | 5.80 | 0.535 | 85.9 | 281.5 | 16.3 | 0.192 |
| 4-2040 | 4-2460 | 0.190 | 209.2 | 8.8 | 3.06 | 1.186 | 93.5 | 0.388 | 1.596 | 347.6 | 549.8 | 0.977 | 2.214 | 4.21 | 0.534 | 83.9 | 280.9 | 11.4 | 0.197 |
| 4-2040 | 4-2480 | 0.205 | 216.0 | 11.0 | 4.02 | 1.188 | 94.5 | 0.395 | 1.608 | 344.2 | 552.6 | 0.973 | 2.242 | 3.34 | 0.533 | 82.0 | 281.5 | 8.6 | 0.205 |
| 4-2040 | 4-2500 | 0.221 | 221.8 | 10.9 | 4.65 | 1.190 | 95.6 | 0.403 | 1.621 | 340.5 | 555.1 | 0.967 | 2.275 | 2.80 | 0.532 | 80.2 | 283.0 | 6.8 | 0.216 |
| 4-2040 | 4-2520 | 0.237 | 227.0 | 9.8 | 5.10 | 1.192 | 96.7 | 0.413 | 1.636 | 336.7 | 557.4 | 0.960 | 2.311 | 2.44 | 0.531 | 78.5 | 285.1 | 5.6 | 0.227 |
| 4-2040 | 4-2540 | 0.256 | 231.6 | 8.2 | 5.45 | 1.195 | 98.0 | 0.424 | 1.651 | 332.8 | 559.3 | 0.951 | 2.350 | 2.19 | 0.530 | 76.8 | 287.8 | 4.7 | 0.239 |
| 4-2040 | 4-2560 | 0.276 | 235.8 | 6.3 | 5.73 | 1.197 | 99.4 | 0.436 | 1.667 | 328.7 | 561.1 | 0.940 | 2.393 | 2.00 | 0.528 | 75.2 | 290.9 | 4.1 | 0.251 |
| 4-2040 | 4-2580 | 0.298 | 239.6 | 4.3 | 5.97 | 1.200 | 100.8 | 0.449 | 1.683 | 324.4 | 562.7 | 0.927 | 2.439 | 1.87 | 0.527 | 73.5 | 294.4 | 3.6 | 0.263 |
| 4-2040 | 4-2600 | 0.321 | 243.2 | 2.4 | 6.18 | 1.202 | 102.4 | 0.464 | 1.700 | 320.2 | 564.1 | 0.911 | 2.488 | 1.77 | 0.525 | 71.8 | 298.2 | 3.2 | 0.275 |
| 4-2040 | 4-2620 | 0.347 | 246.6 | 0.5 | 6.36 | 1.205 | 104.0 | 0.480 | 1.717 | 315.8 | 565.3 | 0.893 | 2.540 | 1.70 | 0.524 | 70.1 | 302.2 | 2.9 | 0.288 |
| 4-2040 | 4-2640 | 0.375 | 249.7 | -1.3 | 6.53 | 1.207 | 105.7 | 0.497 | 1.734 | 311.3 | 566.3 | 0.873 | 2.594 | 1.64 | 0.522 | 68.4 | 306.3 | 2.7 | 0.300 |
| 4-2050 | 4-2170 | 0.506 | 210.5 | 10.6 | 7.18 | 1.491 | 94.0 | 1.186 | -5.260 | 352.5 | 451.8 | 0.979 | --- | -0.34 | 1.044 | 140.9 | 305.3 | -0.3 | 0.857 |
| 4-2050 | 4-2190 | 0.402 | 208.9 | 15.7 | 7.22 | 1.387 | 92.4 | 0.891 | 8.984 | 354.9 | 460.3 | 0.981 | --- | -0.35 | 0.891 | 136.2 | 307.1 | -0.3 | 0.690 |
| 4-2050 | 4-2210 | 0.335 | 206.2 | 21.3 | 7.26 | 1.317 | 90.9 | 0.706 | 3.345 | 357.9 | 469.5 | 0.983 | --- | -0.36 | 0.783 | 131.1 | 308.7 | -0.4 | 0.562 |
| 4-2050 | 4-2230 | 0.292 | 202.8 | 26.9 | 7.30 | 1.271 | 89.6 | 0.587 | 2.383 | 1.0 | 119.0 | --- | --- | -0.38 | 0.705 | 125.7 | 309.8 | -0.5 | 0.462 |
| 4-2050 | 4-2250 | 0.266 | 199.3 | 31.8 | 7.35 | 1.239 | 88.6 | 0.510 | 2.005 | 4.1 | 128.4 | --- | --- | -0.41 | 0.650 | 120.3 | 310.3 | -0.6 | 0.383 |
| 4-2050 | 4-2270 | 0.250 | 196.2 | 35.8 | 7.41 | 1.218 | 87.9 | 0.459 | 1.814 | 6.7 | 137.5 | --- | --- | -0.44 | 0.611 | 115.1 | 310.0 | -0.8 | 0.320 |
| 4-2050 | 4-2290 | 0.241 | 194.0 | 38.8 | 7.49 | 1.203 | 87.4 | 0.426 | 1.706 | 8.7 | 145.9 | --- | --- | -0.49 | 0.584 | 110.2 | 308.6 | -1.0 | 0.270 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2050 | 4-2310 | 0.236 | 192.9 | 40.9 | 7.58 | 1.194 | 87.2 | 0.404 | 1.643 | 9.8 | 153.5 | --- | --- | -0.57 | 0.566 | 105.8 | 306.0 | -1.3 | 0.232 |
| 4-2050 | 4-2330 | 0.233 | 193.2 | 42.3 | 7.71 | 1.188 | 87.2 | 0.390 | 1.605 | 10.1 | 160.4 | --- | --- | -0.68 | 0.554 | 101.7 | 302.3 | -1.8 | 0.204 |
| 4-2050 | 4-2350 | 0.232 | 194.9 | 43.2 | 7.91 | 1.184 | 87.3 | 0.382 | 1.584 | 9.7 | 166.4 | --- | --- | -0.85 | 0.546 | 98.1 | 297.7 | -2.5 | 0.186 |
| 4-2050 | 4-2370 | 0.233 | 198.0 | 44.1 | 8.24 | 1.183 | 87.7 | 0.377 | 1.574 | 8.5 | 171.8 | --- | --- | -1.17 | 0.541 | 94.9 | 292.9 | -3.6 | 0.175 |
| 4-2050 | 4-2390 | 0.241 | 203.2 | 45.6 | 8.98 | 1.182 | 88.1 | 0.376 | 1.572 | 6.8 | 176.5 | --- | --- | -1.88 | 0.538 | 92.1 | 288.4 | -5.9 | 0.172 |
| 4-2050 | 4-2410 | 0.286 | 215.5 | 52.5 | 12.12 | 1.183 | 88.8 | 0.376 | 1.575 | 4.5 | 180.7 | --- | 2.167 | -5.01 | 0.537 | 89.6 | 285.1 | -15.1 | 0.180 |
| 4-2050 | 4-2430 | 0.168 | 186.3 | -5.5 | -0.36 | 1.184 | 89.5 | 0.378 | 1.582 | 1.8 | 184.4 | --- | 2.180 | 7.49 | 0.535 | 87.3 | 283.1 | 21.0 | 0.194 |
| 4-2050 | 4-2450 | 0.194 | 205.8 | 23.9 | 4.98 | 1.186 | 90.3 | 0.382 | 1.592 | 358.8 | 547.7 | 0.983 | 2.200 | 2.17 | 0.535 | 85.3 | 281.7 | 6.2 | 0.186 |
| 4-2050 | 4-2470 | 0.206 | 213.2 | 25.4 | 5.88 | 1.188 | 91.3 | 0.387 | 1.603 | 355.5 | 550.6 | 0.982 | 2.224 | 1.29 | 0.534 | 83.4 | 281.8 | 3.5 | 0.194 |
| 4-2050 | 4-2490 | 0.215 | 219.3 | 24.0 | 6.26 | 1.190 | 92.3 | 0.394 | 1.617 | 351.9 | 553.3 | 0.981 | 2.253 | 0.92 | 0.533 | 81.7 | 282.8 | 2.4 | 0.204 |
| 4-2050 | 4-2510 | 0.224 | 224.8 | 21.6 | 6.48 | 1.192 | 93.4 | 0.401 | 1.632 | 348.1 | 555.6 | 0.977 | 2.286 | 0.73 | 0.533 | 80.0 | 284.6 | 1.8 | 0.214 |
| 4-2050 | 4-2530 | 0.235 | 229.9 | 18.8 | 6.62 | 1.195 | 94.6 | 0.410 | 1.647 | 344.2 | 557.7 | 0.973 | 2.322 | 0.61 | 0.532 | 78.5 | 287.0 | 1.4 | 0.225 |
| 4-2050 | 4-2550 | 0.248 | 234.6 | 15.7 | 6.71 | 1.197 | 95.8 | 0.419 | 1.663 | 340.2 | 559.6 | 0.966 | 2.360 | 0.53 | 0.531 | 76.9 | 289.9 | 1.2 | 0.235 |
| 4-2050 | 4-2570 | 0.263 | 239.1 | 12.7 | 6.79 | 1.200 | 97.1 | 0.430 | 1.680 | 336.0 | 561.3 | 0.958 | 2.402 | 0.47 | 0.529 | 75.4 | 293.2 | 1.0 | 0.246 |
| 4-2050 | 4-2590 | 0.280 | 243.2 | 9.8 | 6.85 | 1.202 | 98.5 | 0.442 | 1.697 | 331.8 | 562.8 | 0.948 | 2.446 | 0.43 | 0.528 | 73.9 | 296.7 | 0.9 | 0.257 |
| 4-2050 | 4-2610 | 0.300 | 247.1 | 7.0 | 6.90 | 1.204 | 100.0 | 0.454 | 1.714 | 327.5 | 564.1 | 0.935 | 2.493 | 0.40 | 0.527 | 72.4 | 300.5 | 0.8 | 0.268 |
| 4-2050 | 4-2630 | 0.321 | 250.8 | 4.4 | 6.95 | 1.207 | 101.5 | 0.468 | 1.732 | 323.2 | 565.3 | 0.921 | 2.542 | 0.38 | 0.525 | 70.8 | 304.5 | 0.7 | 0.279 |
| 4-2050 | 4-2650 | 0.345 | 254.2 | 2.0 | 6.99 | 1.209 | 103.1 | 0.483 | 1.749 | 318.8 | 566.4 | 0.904 | 2.594 | 0.36 | 0.524 | 69.3 | 308.6 | 0.6 | 0.290 |
| 4-2060 | 4-2160 | 0.607 | 208.0 | 9.0 | 7.13 | 1.603 | 90.2 | 1.527 | -1.868 | 359.6 | 445.7 | 0.984 | --- | 0.93 | 1.197 | 143.8 | 305.5 | 0.6 | 1.014 |
| 4-2060 | 4-2180 | 0.463 | 206.0 | 13.6 | 7.04 | 1.454 | 89.0 | 1.080 | 12.338 | 1.9 | 94.1 | --- | --- | 0.93 | 0.992 | 139.4 | 307.1 | 0.7 | 0.799 |
| 4-2060 | 4-2200 | 0.373 | 202.5 | 18.8 | 6.93 | 1.359 | 87.8 | 0.818 | 5.381 | 5.0 | 103.4 | --- | --- | 0.94 | 0.850 | 134.4 | 308.7 | 0.9 | 0.642 |
| 4-2060 | 4-2220 | 0.319 | 197.9 | 23.9 | 6.83 | 1.297 | 86.6 | 0.656 | 2.846 | 8.6 | 113.3 | --- | --- | 0.98 | 0.750 | 129.1 | 309.8 | 1.1 | 0.522 |
| 4-2060 | 4-2240 | 0.285 | 193.0 | 28.3 | 6.72 | 1.256 | 85.6 | 0.554 | 2.187 | 12.2 | 123.2 | --- | --- | 0.99 | 0.679 | 123.6 | 310.5 | 1.3 | 0.429 |
| 4-2060 | 4-2260 | 0.265 | 188.4 | 31.6 | 6.59 | 1.228 | 84.9 | 0.489 | 1.900 | 15.5 | 132.9 | --- | --- | 1.04 | 0.630 | 118.2 | 310.4 | 1.6 | 0.356 |
| 4-2060 | 4-2280 | 0.252 | 184.7 | 33.7 | 6.45 | 1.209 | 84.4 | 0.447 | 1.750 | 18.1 | 141.9 | --- | --- | 1.12 | 0.595 | 113.0 | 309.4 | 2.1 | 0.298 |
| 4-2060 | 4-2300 | 0.243 | 182.3 | 34.9 | 6.29 | 1.197 | 84.2 | 0.419 | 1.665 | 19.8 | 150.1 | --- | --- | 1.22 | 0.572 | 108.2 | 307.3 | 2.6 | 0.253 |
| 4-2060 | 4-2320 | 0.235 | 181.0 | 35.1 | 6.08 | 1.189 | 84.2 | 0.402 | 1.615 | 20.5 | 157.3 | --- | --- | 1.35 | 0.557 | 103.8 | 304.0 | 3.3 | 0.220 |
| 4-2060 | 4-2340 | 0.228 | 180.9 | 34.6 | 5.83 | 1.185 | 84.3 | 0.391 | 1.587 | 20.4 | 163.7 | --- | --- | 1.55 | 0.547 | 99.9 | 299.8 | 4.3 | 0.197 |
| 4-2060 | 4-2360 | 0.220 | 181.6 | 33.1 | 5.48 | 1.182 | 84.6 | 0.384 | 1.572 | 19.5 | 169.4 | --- | --- | 1.84 | 0.541 | 96.5 | 295.1 | 5.4 | 0.182 |
| 4-2060 | 4-2380 | 0.211 | 183.0 | 30.5 | 4.96 | 1.181 | 85.1 | 0.381 | 1.567 | 18.0 | 174.3 | --- | --- | 2.31 | 0.538 | 93.5 | 290.5 | 7.1 | 0.176 |
| 4-2060 | 4-2400 | 0.199 | 184.3 | 25.4 | 4.08 | 1.182 | 85.7 | 0.380 | 1.569 | 15.8 | 178.6 | --- | --- | 3.14 | 0.536 | 90.8 | 286.7 | 9.6 | 0.176 |
| 4-2060 | 4-2420 | 0.184 | 183.7 | 14.0 | 2.20 | 1.183 | 86.4 | 0.380 | 1.575 | 13.3 | 182.5 | --- | 2.173 | 4.96 | 0.535 | 88.5 | 284.1 | 14.6 | 0.183 |
| 4-2060 | 4-2440 | 0.198 | 169.1 | -28.5 | -4.85 | 1.184 | 87.1 | 0.382 | 1.584 | 10.4 | 185.9 | --- | 2.189 | 11.96 | 0.534 | 86.4 | 283.7 | 29.9 | 0.221 |
| 4-2060 | 4-2460 | 0.643 | 271.3 | 70.2 | 32.74 | 1.186 | 88.1 | 0.385 | 1.596 | 6.7 | 188.9 | --- | 2.210 | -25.69 | 0.534 | 84.5 | 288.2 | -44.3 | 0.330 |
| 4-2060 | 4-2480 | 0.311 | 226.7 | 50.7 | 13.51 | 1.188 | 89.1 | 0.389 | 1.610 | 3.4 | 191.6 | --- | 2.236 | -6.50 | 0.534 | 82.8 | 283.3 | -16.7 | 0.209 |
| 4-2060 | 4-2500 | 0.269 | 225.6 | 41.5 | 10.70 | 1.191 | 90.1 | 0.395 | 1.625 | 359.7 | 554.0 | 0.984 | 2.268 | -3.74 | 0.533 | 81.2 | 284.4 | -9.4 | 0.210 |
| 4-2060 | 4-2520 | 0.256 | 228.6 | 35.3 | 9.57 | 1.193 | 91.2 | 0.401 | 1.641 | 355.8 | 556.2 | 0.983 | 2.299 | -2.66 | 0.533 | 79.7 | 286.4 | -6.4 | 0.217 |
| 4-2060 | 4-2540 | 0.253 | 232.7 | 30.1 | 8.94 | 1.196 | 92.4 | 0.408 | 1.657 | 351.8 | 558.2 | 0.981 | 2.334 | -2.09 | 0.532 | 78.3 | 289.0 | -4.8 | 0.226 |
| 4-2060 | 4-2560 | 0.256 | 237.1 | 25.4 | 8.54 | 1.199 | 93.6 | 0.417 | 1.675 | 347.7 | 559.9 | 0.977 | 2.372 | -1.74 | 0.531 | 76.9 | 292.0 | -3.8 | 0.235 |
| 4-2060 | 4-2580 | 0.262 | 241.5 | 21.0 | 8.26 | 1.201 | 94.9 | 0.426 | 1.692 | 343.5 | 561.5 | 0.971 | 2.413 | -1.50 | 0.530 | 75.5 | 295.4 | -3.2 | 0.245 |
| 4-2060 | 4-2600 | 0.272 | 245.9 | 16.9 | 8.04 | 1.204 | 96.3 | 0.436 | 1.710 | 339.3 | 563.0 | 0.964 | 2.458 | -1.34 | 0.529 | 74.1 | 299.0 | -2.7 | 0.254 |
| 4-2060 | 4-2620 | 0.286 | 250.0 | 13.2 | 7.87 | 1.206 | 97.7 | 0.447 | 1.728 | 335.0 | 564.3 | 0.955 | 2.501 | -1.22 | 0.527 | 72.7 | 302.8 | -2.3 | 0.263 |
| 4-2060 | 4-2640 | 0.302 | 254.0 | 9.7 | 7.73 | 1.209 | 99.1 | 0.459 | 1.746 | 330.7 | 565.5 | 0.944 | 2.548 | -1.13 | 0.526 | 71.4 | 306.8 | -2.1 | 0.273 |
| 4-2060 | 4-2660 | 0.320 | 257.7 | 6.6 | 7.60 | 1.211 | 100.6 | 0.472 | 1.764 | 326.3 | 566.5 | 0.931 | 2.597 | -1.07 | 0.525 | 69.9 | 310.9 | -1.9 | 0.282 |
| 4-2070 | 4-2170 | 0.568 | 203.0 | 11.9 | 7.22 | 1.550 | 84.6 | 1.360 | -2.710 | 9.4 | 88.4 | --- | --- | 2.20 | 1.126 | 142.7 | 307.0 | 1.6 | 0.942 |
| 4-2070 | 4-2190 | 0.443 | 199.1 | 16.6 | 6.98 | 1.416 | 83.8 | 0.973 | 35.526 | 12.5 | 97.7 | --- | --- | 2.17 | 0.937 | 138.0 | 308.4 | 1.8 | 0.741 |
| 4-2070 | 4-2210 | 0.369 | 193.8 | 21.2 | 6.75 | 1.331 | 82.9 | 0.747 | 3.826 | 16.5 | 107.9 | --- | --- | 2.16 | 0.806 | 132.7 | 309.5 | 2.2 | 0.594 |
| 4-2070 | 4-2230 | 0.326 | 188.2 | 25.0 | 6.51 | 1.276 | 82.2 | 0.611 | 2.468 | 20.8 | 118.5 | --- | --- | 2.18 | 0.715 | 127.2 | 310.2 | 2.6 | 0.483 |
| 4-2070 | 4-2250 | 0.300 | 182.9 | 27.7 | 6.26 | 1.239 | 81.5 | 0.527 | 2.014 | 24.7 | 128.8 | --- | --- | 2.23 | 0.651 | 121.5 | 310.2 | 3.1 | 0.397 |
| 4-2070 | 4-2270 | 0.284 | 178.7 | 29.3 | 5.99 | 1.215 | 81.1 | 0.474 | 1.801 | 27.9 | 138.4 | --- | --- | 2.31 | 0.608 | 116.0 | 309.4 | 3.8 | 0.330 |
| 4-2070 | 4-2290 | 0.273 | 175.7 | 29.9 | 5.70 | 1.200 | 80.9 | 0.441 | 1.687 | 30.2 | 147.1 | --- | --- | 2.42 | 0.578 | 110.8 | 307.6 | 4.7 | 0.279 |
| 4-2070 | 4-2310 | 0.263 | 173.9 | 29.7 | 5.37 | 1.190 | 80.9 | 0.419 | 1.621 | 31.4 | 154.8 | --- | --- | 2.59 | 0.559 | 106.0 | 304.8 | 5.8 | 0.240 |
| 4-2070 | 4-2330 | 0.254 | 173.1 | 28.8 | 4.99 | 1.184 | 81.0 | 0.405 | 1.585 | 31.6 | 161.5 | --- | --- | 2.82 | 0.546 | 101.8 | 300.9 | 7.1 | 0.212 |
| 4-2070 | 4-2350 | 0.245 | 173.2 | 27.1 | 4.53 | 1.180 | 81.3 | 0.397 | 1.565 | 30.9 | 167.4 | --- | --- | 3.14 | 0.539 | 98.0 | 296.4 | 8.7 | 0.194 |
| 4-2070 | 4-2370 | 0.234 | 173.9 | 24.5 | 3.94 | 1.179 | 81.8 | 0.391 | 1.558 | 29.5 | 172.5 | --- | --- | 3.59 | 0.535 | 94.8 | 291.8 | 10.4 | 0.184 |
| 4-2070 | 4-2390 | 0.223 | 174.9 | 20.5 | 3.14 | 1.179 | 82.4 | 0.388 | 1.558 | 27.5 | 177.0 | --- | --- | 4.25 | 0.533 | 91.9 | 287.8 | 12.5 | 0.182 |
| 4-2070 | 4-2410 | 0.210 | 175.7 | 13.9 | 1.98 | 1.180 | 83.1 | 0.387 | 1.563 | 25.1 | 180.9 | --- | 2.167 | 5.28 | 0.532 | 89.4 | 284.9 | 15.3 | 0.186 |
| 4-2070 | 4-2430 | 0.200 | 175.2 | 2.4 | 0.05 | 1.182 | 83.9 | 0.387 | 1.572 | 22.2 | 184.4 | --- | 2.181 | 7.08 | 0.532 | 87.2 | 283.2 | 19.5 | 0.196 |
| 4-2070 | 4-2450 | 0.206 | 169.8 | -20.2 | -3.85 | 1.184 | 84.7 | 0.388 | 1.584 | 19.0 | 187.5 | --- | 2.199 | 10.88 | 0.532 | 85.3 | 283.3 | 27.1 | 0.220 |
| 4-2070 | 4-2470 | 0.362 | 136.2 | -55.9 | -16.25 | 1.186 | 85.6 | 0.391 | 1.599 | 15.8 | 190.3 | --- | 2.223 | 23.15 | 0.532 | 83.5 | 287.7 | 41.9 | 0.311 |
| 4-2070 | 4-2510 | 0.479 | 246.5 | 63.5 | 23.32 | 1.191 | 87.9 | 0.398 | 1.631 | 7.3 | 194.8 | --- | 2.280 | -16.66 | 0.532 | 80.6 | 289.2 | -33.5 | 0.273 |
| 4-2070 | 4-2530 | 0.353 | 236.7 | 51.7 | 15.88 | 1.194 | 89.0 | 0.403 | 1.648 | 3.4 | 196.8 | --- | 2.313 | -9.34 | 0.532 | 79.2 | 289.2 | -20.8 | 0.239 |
| 4-2070 | 4-2550 | 0.308 | 236.8 | 43.4 | 12.98 | 1.197 | 90.2 | 0.409 | 1.666 | 359.4 | 558.7 | 0.984 | 2.349 | -6.55 | 0.532 | 77.9 | 291.5 | -14.5 | 0.237 |
| 4-2070 | 4-2570 | 0.288 | 239.6 | 36.8 | 11.42 | 1.199 | 91.4 | 0.416 | 1.685 | 355.2 | 560.3 | 0.983 | 2.386 | -5.10 | 0.531 | 76.6 | 294.4 | -11.0 | 0.241 |
| 4-2070 | 4-2590 | 0.280 | 243.4 | 30.9 | 10.42 | 1.202 | 92.7 | 0.424 | 1.703 | 351.0 | 561.8 | 0.981 | 2.426 | -4.22 | 0.530 | 75.4 | 297.8 | -8.8 | 0.247 |
| 4-2070 | 4-2610 | 0.279 | 247.6 | 25.7 | 9.73 | 1.205 | 94.0 | 0.433 | 1.722 | 346.8 | 563.2 | 0.976 | 2.468 | -3.64 | 0.529 | 74.2 | 301.4 | -7.3 | 0.254 |
| 4-2070 | 4-2630 | 0.283 | 251.8 | 20.8 | 9.20 | 1.207 | 95.3 | 0.443 | 1.741 | 342.5 | 564.5 | 0.970 | 2.511 | -3.23 | 0.528 | 72.9 | 305.2 | -6.2 | 0.262 |
| 4-2070 | 4-2650 | 0.291 | 256.1 | 16.4 | 8.79 | 1.210 | 96.7 | 0.453 | 1.759 | 338.2 | 565.6 | 0.962 | 2.556 | -2.93 | 0.527 | 71.7 | 309.2 | -5.5 | 0.269 |
| 4-2070 | 4-2670 | 0.304 | 260.1 | 12.4 | 8.44 | 1.212 | 98.2 | 0.464 | 1.778 | 333.9 | 566.7 | 0.952 | 2.603 | -2.71 | 0.526 | 70.4 | 313.3 | -4.9 | 0.277 |
| 4-2080 | 4-2180 | 0.557 | 196.4 | 14.6 | 7.39 | 1.496 | 78.7 | 1.197 | -4.833 | 20.7 | 92.7 | --- | --- | 3.49 | 1.053 | 141.7 | 307.8 | 2.6 | 0.873 |
| 4-2080 | 4-2200 | 0.451 | 191.0 | 18.6 | 7.01 | 1.376 | 78.4 | 0.872 | 7.344 | 24.9 | 103.2 | --- | --- | 3.39 | 0.879 | 136.6 | 308.8 | 3.0 | 0.686 |
| 4-2080 | 4-2220 | 0.391 | 185.1 | 21.9 | 6.64 | 1.301 | 78.0 | 0.686 | 2.968 | 29.8 | 114.2 | --- | --- | 3.34 | 0.760 | 131.0 | 309.4 | 3.5 | 0.550 |
| 4-2080 | 4-2240 | 0.356 | 179.8 | 24.2 | 6.27 | 1.253 | 77.6 | 0.576 | 2.175 | 34.4 | 125.2 | --- | --- | 3.32 | 0.678 | 125.2 | 309.5 | 4.1 | 0.447 |
| 4-2080 | 4-2260 | 0.335 | 175.5 | 25.4 | 5.90 | 1.222 | 77.3 | 0.510 | 1.863 | 38.3 | 135.5 | --- | --- | 3.35 | 0.621 | 119.3 | 308.9 | 4.9 | 0.369 |
| 4-2080 | 4-2280 | 0.320 | 172.4 | 25.7 | 5.51 | 1.202 | 77.2 | 0.469 | 1.709 | 41.2 | 144.8 | --- | --- | 3.42 | 0.584 | 113.7 | 307.3 | 5.9 | 0.309 |
| 4-2080 | 4-2300 | 0.309 | 170.4 | 25.4 | 5.10 | 1.189 | 77.2 | 0.443 | 1.624 | 42.8 | 152.9 | --- | --- | 3.54 | 0.559 | 108.4 | 304.7 | 7.1 | 0.263 |
| 4-2080 | 4-2320 | 0.298 | 169.5 | 24.5 | 4.65 | 1.181 | 77.4 | 0.426 | 1.578 | 43.3 | 159.9 | --- | --- | 3.72 | 0.543 | 103.7 | 301.1 | 8.5 | 0.231 |
| 4-2080 | 4-2340 | 0.287 | 169.3 | 22.9 | 4.15 | 1.177 | 77.8 | 0.415 | 1.553 | 42.8 | 165.9 | --- | --- | 3.97 | 0.534 | 99.6 | 296.8 | 10.1 | 0.209 |
| 4-2080 | 4-2360 | 0.276 | 169.7 | 20.8 | 3.56 | 1.175 | 78.3 | 0.408 | 1.542 | 41.6 | 171.1 | --- | --- | 4.31 | 0.530 | 96.0 | 292.3 | 11.7 | 0.196 |
| 4-2080 | 4-2380 | 0.264 | 170.6 | 17.8 | 2.86 | 1.175 | 78.9 | 0.403 | 1.541 | 39.6 | 175.7 | --- | --- | 4.79 | 0.527 | 92.9 | 288.3 | 13.4 | 0.190 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THBT1 | THBT2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2080 | 4-2400 | 0.251 | 171.5 | 13.6 | 1.98 | 1.176 | 79.6 | 0.400 | 1.546 | 37.2 | 179.7 | --- | --- | 5.46 | 0.527 | 90.2 | 285.1 | 15.2 | 0.191 |
| 4-2080 | 4-2420 | 0.239 | 172.4 | 7.5 | 0.80 | 1.178 | 80.4 | 0.398 | 1.555 | 34.3 | 183.2 | --- | 2.174 | 6.44 | 0.527 | 87.9 | 283.2 | 17.5 | 0.196 |
| 4-2080 | 4-2440 | 0.229 | 172.4 | -1.7 | -0.90 | 1.180 | 81.3 | 0.397 | 1.568 | 31.1 | 186.3 | --- | 2.191 | 7.94 | 0.528 | 85.9 | 282.4 | 20.6 | 0.206 |
| 4-2080 | 4-2460 | 0.229 | 170.1 | -16.3 | -3.63 | 1.182 | 82.2 | 0.398 | 1.583 | 27.7 | 189.1 | --- | 2.212 | 10.48 | 0.529 | 84.1 | 283.1 | 25.3 | 0.224 |
| 4-2080 | 4-2480 | 0.269 | 160.2 | -38.3 | -8.86 | 1.185 | 83.2 | 0.399 | 1.599 | 24.1 | 191.6 | --- | 2.238 | 15.53 | 0.530 | 82.5 | 285.6 | 32.8 | 0.259 |
| 4-2080 | 4-2500 | 0.480 | 121.3 | -58.3 | -22.93 | 1.188 | 84.1 | 0.402 | 1.617 | 20.7 | 193.9 | --- | 2.267 | 29.41 | 0.530 | 81.0 | 293.4 | 44.1 | 0.370 |
| 4-2080 | 4-2540 | 0.682 | 266.9 | 71.9 | 34.69 | 1.194 | 87.0 | 0.407 | 1.654 | 10.5 | 197.5 | --- | 2.328 | -28.55 | 0.531 | 78.7 | 299.2 | -42.6 | 0.368 |
| 4-2080 | 4-2560 | 0.452 | 246.0 | 59.0 | 21.56 | 1.197 | 88.0 | 0.412 | 1.674 | 6.8 | 199.2 | --- | 2.364 | -15.60 | 0.531 | 77.5 | 296.1 | -29.8 | 0.280 |
| 4-2080 | 4-2580 | 0.368 | 243.6 | 49.6 | 16.56 | 1.200 | 89.2 | 0.418 | 1.693 | 2.7 | 200.8 | --- | 2.402 | -10.76 | 0.530 | 76.3 | 297.7 | -21.6 | 0.261 |
| 4-2080 | 4-2600 | 0.327 | 245.3 | 42.1 | 13.92 | 1.202 | 90.4 | 0.425 | 1.713 | 358.5 | 562.2 | 0.985 | 2.441 | -6.29 | 0.530 | 75.2 | 300.6 | -16.6 | 0.258 |
| 4-2080 | 4-2620 | 0.306 | 248.7 | 35.6 | 12.27 | 1.205 | 91.7 | 0.432 | 1.733 | 354.3 | 563.5 | 0.984 | 2.481 | -6.82 | 0.529 | 74.1 | 304.0 | -13.4 | 0.260 |
| 4-2080 | 4-2640 | 0.297 | 252.7 | 29.7 | 11.13 | 1.208 | 93.0 | 0.440 | 1.752 | 350.0 | 564.7 | 0.981 | 2.523 | -5.85 | 0.528 | 73.0 | 307.8 | -11.2 | 0.264 |
| 4-2080 | 4-2660 | 0.294 | 256.9 | 24.4 | 10.27 | 1.210 | 94.4 | 0.449 | 1.771 | 345.8 | 565.8 | 0.976 | 2.567 | -5.17 | 0.527 | 71.8 | 311.7 | -9.6 | 0.269 |
| 4-2080 | 4-2680 | 0.297 | 261.3 | 19.5 | 9.60 | 1.213 | 95.8 | 0.459 | 1.791 | 341.5 | 566.8 | 0.969 | 2.612 | -4.67 | 0.527 | 70.7 | 315.7 | -8.5 | 0.275 |
| 4-2090 | 4-2190 | 0.577 | 189.5 | 16.2 | 7.67 | 1.442 | 72.6 | 1.047 | 19.031 | 34.0 | 99.0 | --- | --- | 4.83 | 0.979 | 141.1 | 307.8 | 3.7 | 0.809 |
| 4-2090 | 4-2210 | 0.487 | 183.8 | 19.1 | 7.12 | 1.336 | 72.8 | 0.786 | 4.148 | 39.4 | 110.6 | --- | --- | 4.63 | 0.819 | 135.5 | 308.3 | 4.2 | 0.636 |
| 4-2090 | 4-2230 | 0.436 | 178.6 | 21.0 | 6.60 | 1.271 | 72.8 | 0.640 | 2.431 | 44.8 | 122.3 | --- | --- | 4.49 | 0.711 | 129.4 | 308.4 | 4.9 | 0.510 |
| 4-2090 | 4-2250 | 0.405 | 174.4 | 22.0 | 6.10 | 1.230 | 72.8 | 0.556 | 1.945 | 49.4 | 133.3 | --- | --- | 4.40 | 0.638 | 123.2 | 307.7 | 5.7 | 0.416 |
| 4-2090 | 4-2270 | 0.385 | 171.5 | 22.2 | 5.61 | 1.204 | 72.9 | 0.506 | 1.732 | 52.7 | 143.1 | --- | --- | 4.38 | 0.589 | 117.0 | 306.3 | 6.7 | 0.345 |
| 4-2090 | 4-2290 | 0.369 | 169.6 | 21.8 | 5.11 | 1.188 | 73.1 | 0.475 | 1.623 | 54.7 | 151.5 | --- | --- | 4.41 | 0.558 | 111.2 | 303.9 | 7.9 | 0.292 |
| 4-2090 | 4-2310 | 0.356 | 168.6 | 20.9 | 4.60 | 1.178 | 73.4 | 0.455 | 1.565 | 55.5 | 158.7 | --- | --- | 4.50 | 0.538 | 106.0 | 300.5 | 9.2 | 0.253 |
| 4-2090 | 4-2330 | 0.343 | 168.4 | 19.6 | 4.06 | 1.172 | 73.9 | 0.441 | 1.534 | 55.2 | 164.9 | --- | --- | 4.65 | 0.527 | 101.3 | 296.4 | 10.7 | 0.227 |
| 4-2090 | 4-2350 | 0.330 | 168.6 | 17.9 | 3.47 | 1.170 | 74.4 | 0.431 | 1.520 | 54.0 | 170.2 | --- | --- | 4.88 | 0.521 | 97.3 | 292.1 | 12.1 | 0.210 |
| 4-2090 | 4-2370 | 0.317 | 169.3 | 15.6 | 2.82 | 1.169 | 75.1 | 0.424 | 1.518 | 52.1 | 174.8 | --- | --- | 5.21 | 0.519 | 93.8 | 288.1 | 13.5 | 0.202 |
| 4-2090 | 4-2390 | 0.303 | 170.3 | 12.6 | 2.06 | 1.170 | 75.9 | 0.419 | 1.522 | 49.6 | 178.8 | --- | --- | 5.65 | 0.519 | 90.9 | 284.9 | 14.8 | 0.199 |
| 4-2090 | 4-2410 | 0.289 | 171.3 | 8.7 | 1.16 | 1.172 | 76.8 | 0.415 | 1.532 | 46.7 | 182.3 | --- | 2.169 | 6.26 | 0.520 | 88.4 | 282.7 | 16.3 | 0.202 |
| 4-2090 | 4-2430 | 0.275 | 172.2 | 3.5 | 0.03 | 1.174 | 77.7 | 0.413 | 1.546 | 43.5 | 185.4 | --- | 2.183 | 7.11 | 0.521 | 86.2 | 281.8 | 18.1 | 0.208 |
| 4-2090 | 4-2450 | 0.264 | 172.6 | -3.8 | -1.46 | 1.177 | 78.6 | 0.411 | 1.562 | 40.0 | 188.2 | --- | 2.203 | 8.33 | 0.523 | 84.4 | 281.9 | 20.3 | 0.217 |
| 4-2090 | 4-2470 | 0.259 | 171.8 | -14.1 | -3.56 | 1.180 | 79.7 | 0.410 | 1.579 | 36.3 | 190.7 | --- | 2.227 | 10.17 | 0.525 | 82.7 | 283.1 | 23.5 | 0.231 |
| 4-2090 | 4-2490 | 0.271 | 167.8 | -28.5 | -6.82 | 1.183 | 80.7 | 0.410 | 1.598 | 32.5 | 192.9 | --- | 2.254 | 13.19 | 0.527 | 81.3 | 285.5 | 28.1 | 0.252 |
| 4-2090 | 4-2510 | 0.332 | 155.1 | -46.3 | -12.71 | 1.187 | 81.7 | 0.412 | 1.618 | 28.7 | 195.0 | --- | 2.284 | 18.85 | 0.528 | 80.0 | 289.8 | 35.0 | 0.292 |
| 4-2090 | 4-2530 | 0.546 | 118.3 | -57.8 | -26.43 | 1.190 | 82.7 | 0.414 | 1.638 | 25.1 | 196.9 | --- | 2.317 | 32.33 | 0.529 | 78.7 | 299.1 | 43.9 | 0.400 |
| 4-2090 | 4-2570 | 0.913 | 295.3 | 78.9 | 47.90 | 1.196 | 86.1 | 0.417 | 1.680 | 13.2 | 199.7 | --- | 2.380 | -42.45 | 0.529 | 77.0 | 312.2 | -45.8 | 0.485 |
| 4-2090 | 4-2590 | 0.566 | 253.5 | 65.2 | 27.96 | 1.199 | 87.1 | 0.422 | 1.701 | 9.8 | 201.2 | --- | 2.418 | -22.73 | 0.529 | 75.9 | 304.8 | -36.6 | 0.332 |
| 4-2090 | 4-2610 | 0.434 | 249.0 | 54.7 | 20.39 | 1.202 | 88.2 | 0.427 | 1.721 | 5.9 | 202.6 | --- | 2.457 | -15.38 | 0.529 | 74.8 | 305.0 | -27.7 | 0.291 |
| 4-2090 | 4-2630 | 0.371 | 249.9 | 46.6 | 16.49 | 1.205 | 89.5 | 0.433 | 1.742 | 1.7 | 203.8 | --- | 2.497 | -11.70 | 0.528 | 73.8 | 307.5 | -21.7 | 0.278 |
| 4-2090 | 4-2650 | 0.335 | 252.9 | 39.6 | 14.10 | 1.208 | 90.8 | 0.440 | 1.762 | 357.5 | 565.0 | 0.987 | 2.538 | -9.53 | 0.528 | 72.8 | 310.8 | -17.7 | 0.274 |
| 4-2090 | 4-2670 | 0.315 | 256.8 | 33.4 | 12.47 | 1.210 | 92.1 | 0.447 | 1.782 | 353.3 | 566.1 | 0.985 | 2.580 | -8.11 | 0.527 | 71.8 | 314.4 | -14.9 | 0.275 |
| 4-2090 | 4-2690 | 0.305 | 261.2 | 27.7 | 11.26 | 1.213 | 93.4 | 0.455 | 1.802 | 349.1 | 567.1 | 0.982 | 2.623 | -7.13 | 0.527 | 70.8 | 318.3 | -12.9 | 0.277 |
| 4-2100 | 4-2200 | 0.626 | 183.8 | 16.5 | 8.08 | 1.389 | 66.3 | 0.924 | 10.786 | 49.6 | 107.7 | --- | --- | 6.24 | 0.903 | 140.8 | 306.8 | 4.7 | 0.753 |
| 4-2100 | 4-2220 | 0.545 | 178.9 | 18.2 | 7.33 | 1.296 | 67.0 | 0.724 | 2.929 | 55.7 | 120.1 | --- | --- | 5.88 | 0.757 | 134.5 | 306.8 | 5.4 | 0.592 |
| 4-2100 | 4-2240 | 0.498 | 174.9 | 19.0 | 6.64 | 1.240 | 67.4 | 0.616 | 2.068 | 61.1 | 131.8 | --- | --- | 5.62 | 0.660 | 127.9 | 306.2 | 6.1 | 0.476 |
| 4-2100 | 4-2260 | 0.467 | 172.2 | 19.2 | 6.00 | 1.206 | 67.9 | 0.554 | 1.762 | 65.0 | 142.0 | --- | --- | 5.44 | 0.596 | 121.2 | 304.7 | 7.1 | 0.390 |
| 4-2100 | 4-2280 | 0.445 | 170.4 | 18.8 | 5.39 | 1.185 | 68.3 | 0.517 | 1.619 | 67.3 | 150.7 | --- | --- | 5.33 | 0.555 | 114.7 | 302.5 | 8.2 | 0.327 |
| 4-2100 | 4-2300 | 0.427 | 169.5 | 17.9 | 4.79 | 1.173 | 68.9 | 0.493 | 1.545 | 68.2 | 158.1 | --- | --- | 5.30 | 0.530 | 108.7 | 299.3 | 9.5 | 0.282 |
| 4-2100 | 4-2320 | 0.411 | 169.2 | 16.8 | 4.18 | 1.166 | 69.5 | 0.476 | 1.508 | 67.9 | 164.3 | --- | --- | 5.33 | 0.516 | 103.4 | 295.4 | 10.8 | 0.250 |
| 4-2100 | 4-2340 | 0.395 | 169.5 | 15.3 | 3.56 | 1.163 | 70.2 | 0.464 | 1.491 | 66.7 | 169.6 | --- | --- | 5.44 | 0.509 | 98.7 | 291.3 | 12.0 | 0.229 |
| 4-2100 | 4-2360 | 0.380 | 170.1 | 13.5 | 2.91 | 1.162 | 71.0 | 0.454 | 1.487 | 64.8 | 174.2 | --- | --- | 5.62 | 0.506 | 94.8 | 287.4 | 13.1 | 0.217 |
| 4-2100 | 4-2380 | 0.364 | 171.0 | 11.2 | 2.21 | 1.163 | 71.9 | 0.447 | 1.492 | 62.3 | 178.1 | --- | --- | 5.89 | 0.507 | 91.5 | 284.2 | 14.2 | 0.212 |
| 4-2100 | 4-2400 | 0.348 | 172.0 | 8.4 | 1.42 | 1.165 | 72.8 | 0.440 | 1.503 | 59.3 | 181.6 | --- | 2.164 | 6.27 | 0.509 | 88.7 | 282.0 | 15.2 | 0.212 |
| 4-2100 | 4-2420 | 0.332 | 173.1 | 4.9 | 0.53 | 1.167 | 73.8 | 0.435 | 1.517 | 56.0 | 184.7 | --- | 2.177 | 6.79 | 0.512 | 86.4 | 280.9 | 16.3 | 0.215 |
| 4-2100 | 4-2440 | 0.317 | 174.1 | 0.5 | -0.53 | 1.171 | 74.8 | 0.431 | 1.534 | 52.5 | 187.4 | --- | 2.196 | 7.50 | 0.515 | 84.4 | 280.8 | 17.6 | 0.221 |
| 4-2100 | 4-2460 | 0.303 | 174.8 | -5.3 | -1.85 | 1.174 | 75.9 | 0.428 | 1.553 | 48.7 | 189.9 | --- | 2.219 | 8.48 | 0.518 | 82.7 | 281.6 | 19.3 | 0.229 |
| 4-2100 | 4-2480 | 0.294 | 174.7 | -13.0 | -3.55 | 1.178 | 77.0 | 0.426 | 1.574 | 44.8 | 192.2 | --- | 2.244 | 9.86 | 0.520 | 81.2 | 283.4 | 21.6 | 0.239 |
| 4-2100 | 4-2500 | 0.294 | 173.1 | -23.1 | -5.89 | 1.181 | 78.1 | 0.425 | 1.595 | 40.8 | 194.2 | --- | 2.273 | 11.90 | 0.522 | 80.0 | 286.0 | 24.7 | 0.254 |
| 4-2100 | 4-2520 | 0.314 | 168.0 | -36.1 | -9.43 | 1.185 | 79.3 | 0.425 | 1.617 | 36.8 | 196.1 | --- | 2.304 | 15.15 | 0.524 | 78.8 | 289.6 | 29.1 | 0.276 |
| 4-2100 | 4-2540 | 0.382 | 154.0 | -50.2 | -15.45 | 1.188 | 80.4 | 0.425 | 1.639 | 32.8 | 197.8 | --- | 2.336 | 20.89 | 0.526 | 77.7 | 294.9 | 35.4 | 0.316 |
| 4-2100 | 4-2560 | 0.577 | 121.2 | -57.4 | -27.91 | 1.192 | 81.4 | 0.427 | 1.662 | 29.1 | 199.4 | --- | 2.372 | 33.07 | 0.527 | 76.6 | 304.5 | 42.9 | 0.411 |
| 4-2100 | 4-2600 | 1.166 | 356.9 | 82.9 | 62.98 | 1.198 | 85.5 | 0.426 | 1.706 | 15.3 | 201.5 | --- | 2.433 | -58.35 | 0.527 | 75.5 | 326.1 | -44.9 | 0.616 |
| 4-2100 | 4-2620 | 0.699 | 258.8 | 71.2 | 35.41 | 1.201 | 86.2 | 0.432 | 1.728 | 12.6 | 202.9 | --- | 2.474 | -31.04 | 0.528 | 74.4 | 315.3 | -41.3 | 0.397 |
| 4-2100 | 4-2640 | 0.510 | 252.7 | 59.4 | 24.62 | 1.204 | 87.3 | 0.437 | 1.750 | 8.9 | 204.2 | --- | 2.514 | -20.51 | 0.527 | 73.4 | 318.3 | -32.9 | 0.326 |
| 4-2100 | 4-2660 | 0.418 | 253.3 | 50.5 | 19.20 | 1.207 | 88.5 | 0.442 | 1.771 | 4.9 | 205.3 | --- | 2.554 | -15.34 | 0.527 | 72.5 | 314.9 | -26.4 | 0.300 |
| 4-2100 | 4-2680 | 0.366 | 256.2 | 43.1 | 15.95 | 1.210 | 89.8 | 0.448 | 1.792 | 0.8 | 206.3 | --- | 2.595 | -12.35 | 0.527 | 71.6 | 317.8 | -21.7 | 0.289 |
| 4-2100 | 4-2700 | 0.335 | 260.1 | 36.5 | 13.76 | 1.213 | 91.1 | 0.455 | 1.813 | 356.6 | 567.3 | 0.989 | 2.637 | -10.42 | 0.527 | 70.7 | 321.3 | -18.3 | 0.286 |
| 4-2110 | 4-2230 | 0.619 | 176.4 | 16.4 | 7.65 | 1.258 | 60.9 | 0.695 | 2.294 | 73.4 | 131.0 | --- | --- | 7.17 | 0.693 | 133.9 | 304.2 | 6.4 | 0.557 |
| 4-2110 | 4-2250 | 0.571 | 173.8 | 16.5 | 6.76 | 1.210 | 61.9 | 0.617 | 1.810 | 77.8 | 141.7 | --- | --- | 6.74 | 0.607 | 126.6 | 302.8 | 7.3 | 0.450 |
| 4-2110 | 4-2270 | 0.538 | 172.2 | 16.1 | 5.96 | 1.182 | 62.8 | 0.571 | 1.614 | 80.3 | 150.5 | --- | --- | 6.43 | 0.552 | 119.2 | 300.6 | 8.3 | 0.374 |
| 4-2110 | 4-2290 | 0.513 | 171.4 | 15.3 | 5.22 | 1.166 | 63.7 | 0.542 | 1.521 | 81.2 | 157.9 | --- | --- | 6.22 | 0.519 | 112.3 | 297.6 | 9.4 | 0.318 |
| 4-2110 | 4-2310 | 0.491 | 171.2 | 14.3 | 4.51 | 1.157 | 64.5 | 0.522 | 1.474 | 80.9 | 164.1 | --- | --- | 6.09 | 0.500 | 106.0 | 294.0 | 10.5 | 0.279 |
| 4-2110 | 4-2330 | 0.471 | 171.5 | 13.0 | 3.82 | 1.153 | 65.5 | 0.506 | 1.454 | 79.7 | 169.3 | --- | --- | 6.05 | 0.492 | 100.6 | 290.1 | 11.6 | 0.254 |
| 4-2110 | 4-2350 | 0.452 | 172.1 | 11.4 | 3.13 | 1.152 | 66.4 | 0.494 | 1.449 | 77.6 | 173.7 | --- | --- | 6.09 | 0.489 | 96.0 | 286.3 | 12.5 | 0.238 |
| 4-2110 | 4-2370 | 0.434 | 173.0 | 9.5 | 2.43 | 1.153 | 67.5 | 0.483 | 1.454 | 75.1 | 177.6 | --- | --- | 6.20 | 0.490 | 92.2 | 283.2 | 13.3 | 0.229 |
| 4-2110 | 4-2390 | 0.415 | 174.0 | 7.4 | 1.69 | 1.155 | 68.5 | 0.474 | 1.466 | 72.0 | 181.1 | --- | 2.161 | 6.40 | 0.494 | 89.0 | 281.0 | 14.1 | 0.227 |
| 4-2110 | 4-2410 | 0.397 | 175.1 | 4.8 | 0.90 | 1.159 | 69.6 | 0.466 | 1.482 | 68.7 | 184.1 | --- | 2.172 | 6.70 | 0.498 | 86.4 | 279.8 | 14.8 | 0.227 |
| 4-2110 | 4-2430 | 0.379 | 176.3 | 1.7 | 0.02 | 1.162 | 70.8 | 0.459 | 1.500 | 65.0 | 186.8 | --- | 2.190 | 7.12 | 0.502 | 84.3 | 279.6 | 15.6 | 0.231 |
| 4-2110 | 4-2450 | 0.362 | 177.4 | -2.1 | -0.98 | 1.166 | 71.9 | 0.454 | 1.521 | 61.2 | 189.3 | --- | 2.211 | 7.69 | 0.507 | 82.5 | 280.3 | 16.6 | 0.236 |
| 4-2110 | 4-2470 | 0.346 | 178.2 | -6.8 | -2.15 | 1.170 | 73.1 | 0.449 | 1.544 | 57.2 | 191.5 | --- | 2.236 | 8.46 | 0.511 | 80.9 | 281.8 | 17.9 | 0.242 |
| 4-2110 | 4-2490 | 0.333 | 178.7 | -12.7 | -3.57 | 1.174 | 74.3 | 0.445 | 1.567 | 53.1 | 193.5 | --- | 2.264 | 9.51 | 0.514 | 79.6 | 284.0 | 19.5 | 0.250 |
| 4-2110 | 4-2510 | 0.326 | 178.3 | -20.3 | -5.39 | 1.178 | 75.5 | 0.442 | 1.590 | 48.9 | 195.3 | --- | 2.294 | 10.98 | 0.517 | 78.5 | 286.8 | 21.8 | 0.260 |
| 4-2110 | 4-2530 | 0.329 | 176.2 | -29.7 | -7.85 | 1.182 | 76.7 | 0.440 | 1.614 | 44.7 | 197.0 | --- | 2.325 | 13.09 | 0.520 | 77.5 | 290.2 | 24.8 | 0.274 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THBT1 THBT2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2110 | 4-2550 | 0.352 | 170.4 | -41.1 | -11.43 | 1.186 | 77.9 | 0.439 | 1.639 | 40.6 | 198.6 | --- | 2.358 | 16.35 | 0.522 | 76.5 | 294.6 | 29.0 | 0.294 |
| 4-2110 | 4-2570 | 0.419 | 156.4 | -52.5 | -17.21 | 1.190 | 79.1 | 0.439 | 1.663 | 36.5 | 200.0 | --- | 2.393 | 21.81 | 0.523 | 75.6 | 300.3 | 34.7 | 0.331 |
| 4-2110 | 4-2590 | 0.586 | 127.5 | -57.8 | -28.08 | 1.193 | 80.1 | 0.441 | 1.686 | 32.8 | 201.4 | --- | 2.430 | 32.37 | 0.524 | 74.7 | 309.6 | 41.4 | 0.409 |
| 4-2110 | 4-2610 | 1.000 | 96.6 | -46.9 | -52.73 | 1.197 | 80.9 | 0.444 | 1.710 | 30.1 | 202.8 | --- | 2.470 | 56.72 | 0.525 | 73.7 | 326.5 | 44.2 | 0.605 |
| 4-2110 | 4-2650 | 0.857 | 259.6 | 77.8 | 44.44 | 1.203 | 85.4 | 0.441 | 1.756 | 15.2 | 204.4 | --- | 2.531 | -41.03 | 0.526 | 73.0 | 327.4 | -44.0 | 0.475 |
| 4-2110 | 4-2670 | 0.597 | 254.3 | 63.9 | 29.48 | 1.206 | 86.4 | 0.446 | 1.778 | 11.8 | 205.6 | --- | 2.572 | -26.38 | 0.526 | 72.1 | 322.6 | -37.3 | 0.367 |
| 4-2110 | 4-2690 | 0.470 | 255.4 | 54.0 | 22.14 | 1.209 | 87.5 | 0.451 | 1.800 | 8.0 | 206.6 | --- | 2.612 | -19.30 | 0.526 | 71.3 | 322.9 | -30.5 | 0.324 |
| 4-2110 | 4-2710 | 0.399 | 258.4 | 46.1 | 17.86 | 1.212 | 88.7 | 0.456 | 1.822 | 4.0 | 207.6 | --- | 2.653 | -15.29 | 0.526 | 70.5 | 325.2 | -25.3 | 0.306 |
| 4-2120 | 4-2240 | 0.704 | 176.1 | 14.2 | 8.10 | 1.220 | 54.7 | 0.698 | 1.912 | 91.1 | 141.9 | --- | --- | 8.55 | 0.629 | 133.7 | 300.6 | 7.3 | 0.533 |
| 4-2120 | 4-2260 | 0.652 | 174.6 | 13.8 | 6.97 | 1.181 | 56.2 | 0.642 | 1.620 | 93.7 | 150.9 | --- | --- | 7.88 | 0.553 | 125.4 | 298.5 | 8.1 | 0.436 |
| 4-2120 | 4-2280 | 0.615 | 174.0 | 13.0 | 5.98 | 1.159 | 57.6 | 0.606 | 1.495 | 94.6 | 158.1 | --- | --- | 7.39 | 0.507 | 117.3 | 295.7 | 9.1 | 0.367 |
| 4-2120 | 4-2300 | 0.585 | 173.9 | 12.0 | 5.10 | 1.147 | 58.9 | 0.580 | 1.436 | 94.1 | 164.1 | --- | --- | 7.04 | 0.481 | 109.8 | 292.3 | 10.0 | 0.319 |
| 4-2120 | 4-2320 | 0.559 | 174.2 | 10.8 | 4.28 | 1.142 | 60.1 | 0.560 | 1.411 | 92.7 | 169.1 | --- | --- | 6.81 | 0.469 | 103.2 | 288.6 | 10.9 | 0.286 |
| 4-2120 | 4-2340 | 0.535 | 174.9 | 9.4 | 3.50 | 1.140 | 61.3 | 0.544 | 1.404 | 90.6 | 173.4 | --- | --- | 6.67 | 0.466 | 97.7 | 285.1 | 11.7 | 0.265 |
| 4-2120 | 4-2360 | 0.513 | 175.8 | 7.8 | 2.75 | 1.141 | 62.6 | 0.530 | 1.409 | 87.9 | 177.2 | --- | --- | 6.62 | 0.468 | 93.1 | 282.1 | 12.3 | 0.253 |
| 4-2120 | 4-2380 | 0.491 | 176.8 | 5.9 | 2.00 | 1.144 | 63.8 | 0.517 | 1.422 | 84.7 | 180.5 | --- | 2.158 | 6.65 | 0.473 | 89.4 | 279.9 | 12.8 | 0.247 |
| 4-2120 | 4-2400 | 0.470 | 178.0 | 3.9 | 1.23 | 1.148 | 65.1 | 0.506 | 1.439 | 81.3 | 183.5 | --- | 2.168 | 6.77 | 0.479 | 86.4 | 278.7 | 13.3 | 0.245 |
| 4-2120 | 4-2420 | 0.449 | 179.2 | 1.5 | 0.43 | 1.152 | 66.4 | 0.496 | 1.460 | 77.6 | 186.2 | --- | 2.184 | 6.98 | 0.486 | 84.0 | 278.4 | 13.8 | 0.246 |
| 4-2120 | 4-2440 | 0.429 | 180.4 | -1.3 | -0.42 | 1.156 | 67.6 | 0.487 | 1.483 | 73.7 | 188.6 | --- | 2.205 | 7.30 | 0.492 | 82.0 | 279.0 | 14.4 | 0.248 |
| 4-2120 | 4-2460 | 0.410 | 181.6 | -4.6 | -1.35 | 1.161 | 68.9 | 0.480 | 1.507 | 69.8 | 190.8 | --- | 2.230 | 7.74 | 0.498 | 80.4 | 280.4 | 15.2 | 0.252 |
| 4-2120 | 4-2480 | 0.392 | 182.6 | -8.5 | -2.40 | 1.166 | 70.2 | 0.473 | 1.532 | 65.4 | 192.8 | --- | 2.257 | 8.33 | 0.503 | 79.0 | 282.4 | 16.2 | 0.257 |
| 4-2120 | 4-2500 | 0.376 | 183.4 | -13.2 | -3.63 | 1.171 | 71.5 | 0.467 | 1.558 | 61.2 | 194.6 | --- | 2.288 | 9.13 | 0.508 | 77.9 | 284.9 | 17.5 | 0.263 |
| 4-2120 | 4-2520 | 0.364 | 183.7 | -19.0 | -5.10 | 1.175 | 72.8 | 0.462 | 1.584 | 56.9 | 196.3 | --- | 2.317 | 10.20 | 0.512 | 76.9 | 287.9 | 19.1 | 0.269 |
| 4-2120 | 4-2540 | 0.358 | 183.0 | -26.1 | -6.96 | 1.179 | 74.1 | 0.459 | 1.610 | 52.6 | 197.8 | --- | 2.349 | 11.68 | 0.515 | 76.0 | 291.4 | 21.3 | 0.278 |
| 4-2120 | 4-2560 | 0.361 | 180.7 | -34.6 | -9.40 | 1.184 | 75.4 | 0.456 | 1.636 | 48.3 | 199.3 | --- | 2.382 | 13.74 | 0.518 | 75.2 | 295.4 | 24.2 | 0.290 |
| 4-2120 | 4-2580 | 0.385 | 174.9 | -44.5 | -12.85 | 1.188 | 76.6 | 0.454 | 1.662 | 44.1 | 200.6 | --- | 2.417 | 16.84 | 0.520 | 74.4 | 300.0 | 28.1 | 0.308 |
| 4-2120 | 4-2600 | 0.445 | 161.7 | -54.1 | -18.17 | 1.191 | 77.8 | 0.454 | 1.687 | 40.0 | 201.9 | --- | 2.453 | 21.82 | 0.521 | 73.7 | 305.9 | 33.3 | 0.339 |
| 4-2120 | 4-2620 | 0.582 | 136.1 | -58.8 | -27.40 | 1.195 | 78.9 | 0.454 | 1.712 | 36.2 | 203.1 | --- | 2.490 | 30.72 | 0.522 | 73.0 | 314.5 | 39.5 | 0.401 |
| 4-2120 | 4-2640 | 0.893 | 107.7 | -51.1 | -46.12 | 1.198 | 79.8 | 0.457 | 1.737 | 33.1 | 204.3 | --- | 2.530 | 49.13 | 0.523 | 72.1 | 329.0 | 43.9 | 0.543 |
| 4-2120 | 4-2680 | 1.049 | 237.1 | 84.7 | 55.72 | 1.205 | 84.6 | 0.451 | 1.784 | 17.5 | 205.7 | --- | 2.588 | -53.34 | 0.525 | 71.8 | 340.8 | -44.5 | 0.570 |
| 4-2120 | 4-2700 | 0.702 | 252.6 | 68.5 | 35.36 | 1.208 | 85.4 | 0.455 | 1.807 | 14.7 | 206.8 | --- | 2.630 | -33.27 | 0.525 | 70.9 | 333.0 | -40.8 | 0.417 |
| 4-2120 | 4-2720 | 0.530 | 256.0 | 57.4 | 25.47 | 1.211 | 86.5 | 0.460 | 1.829 | 11.2 | 207.8 | --- | 2.670 | -23.69 | 0.525 | 70.1 | 331.4 | -34.2 | 0.353 |
| 4-2130 | 4-2250 | 0.794 | 177.3 | 11.8 | 8.73 | 1.185 | 48.3 | 0.729 | 1.662 | 107.5 | 151.7 | --- | --- | 10.05 | 0.565 | 134.0 | 296.4 | 7.8 | 0.523 |
| 4-2130 | 4-2270 | 0.737 | 176.8 | 11.0 | 7.28 | 1.153 | 50.4 | 0.685 | 1.476 | 108.2 | 158.6 | --- | --- | 9.06 | 0.497 | 124.6 | 293.8 | 8.6 | 0.434 |
| 4-2130 | 4-2290 | 0.694 | 176.8 | 9.9 | 6.07 | 1.136 | 52.2 | 0.653 | 1.397 | 107.4 | 164.3 | --- | --- | 8.34 | 0.460 | 115.4 | 290.7 | 9.3 | 0.371 |
| 4-2130 | 4-2310 | 0.659 | 177.3 | 8.8 | 5.02 | 1.128 | 53.9 | 0.628 | 1.364 | 105.8 | 169.1 | --- | --- | 7.82 | 0.442 | 107.2 | 287.2 | 10.0 | 0.329 |
| 4-2130 | 4-2330 | 0.629 | 178.0 | 7.4 | 4.08 | 1.126 | 55.5 | 0.606 | 1.354 | 103.4 | 173.2 | --- | --- | 7.44 | 0.437 | 100.3 | 283.9 | 10.7 | 0.301 |
| 4-2130 | 4-2350 | 0.601 | 179.0 | 5.9 | 3.21 | 1.127 | 57.1 | 0.588 | 1.359 | 100.6 | 176.8 | --- | --- | 7.19 | 0.440 | 94.6 | 281.1 | 11.1 | 0.283 |
| 4-2130 | 4-2370 | 0.576 | 180.1 | 4.3 | 2.39 | 1.130 | 58.6 | 0.571 | 1.372 | 97.3 | 180.0 | --- | --- | 7.03 | 0.446 | 90.0 | 278.9 | 11.5 | 0.273 |
| 4-2130 | 4-2390 | 0.551 | 181.3 | 2.5 | 1.60 | 1.135 | 60.1 | 0.556 | 1.390 | 93.8 | 182.8 | --- | 2.164 | 6.98 | 0.455 | 86.5 | 277.7 | 11.9 | 0.268 |
| 4-2130 | 4-2410 | 0.527 | 182.6 | 0.6 | 0.81 | 1.140 | 61.5 | 0.542 | 1.413 | 90.0 | 185.4 | --- | 2.179 | 7.01 | 0.464 | 83.6 | 277.4 | 12.2 | 0.266 |
| 4-2130 | 4-2430 | 0.504 | 183.9 | -1.7 | 0.02 | 1.145 | 63.0 | 0.530 | 1.438 | 86.0 | 187.8 | --- | 2.199 | 7.13 | 0.472 | 81.4 | 277.9 | 12.6 | 0.266 |
| 4-2130 | 4-2450 | 0.482 | 185.2 | -4.1 | -0.81 | 1.150 | 64.4 | 0.519 | 1.464 | 81.9 | 190.0 | --- | 2.223 | 7.34 | 0.481 | 79.6 | 279.1 | 13.0 | 0.268 |
| 4-2130 | 4-2470 | 0.460 | 186.5 | -7.0 | -1.69 | 1.156 | 65.9 | 0.509 | 1.491 | 77.7 | 192.0 | --- | 2.250 | 7.66 | 0.488 | 78.1 | 281.0 | 13.6 | 0.270 |
| 4-2130 | 4-2490 | 0.440 | 187.6 | -10.3 | -2.64 | 1.161 | 67.3 | 0.500 | 1.519 | 73.3 | 193.8 | --- | 2.279 | 8.10 | 0.495 | 76.9 | 283.3 | 14.4 | 0.273 |
| 4-2130 | 4-2510 | 0.422 | 188.6 | -14.2 | -3.71 | 1.166 | 68.7 | 0.492 | 1.548 | 69.8 | 195.5 | --- | 2.309 | 8.69 | 0.500 | 76.0 | 286.2 | 15.4 | 0.277 |
| 4-2130 | 4-2530 | 0.406 | 189.3 | -18.7 | -4.94 | 1.171 | 70.0 | 0.486 | 1.576 | 64.6 | 197.1 | --- | 2.341 | 9.47 | 0.505 | 75.1 | 289.3 | 16.8 | 0.281 |
| 4-2130 | 4-2550 | 0.394 | 189.6 | -24.2 | -6.40 | 1.176 | 71.4 | 0.480 | 1.604 | 60.2 | 198.5 | --- | 2.374 | 10.52 | 0.509 | 74.4 | 292.9 | 18.2 | 0.286 |
| 4-2130 | 4-2570 | 0.387 | 188.9 | -30.7 | -8.21 | 1.181 | 72.7 | 0.476 | 1.632 | 55.9 | 199.9 | --- | 2.408 | 11.92 | 0.512 | 73.7 | 296.7 | 20.3 | 0.293 |
| 4-2130 | 4-2590 | 0.391 | 186.7 | -38.4 | -10.55 | 1.185 | 74.1 | 0.472 | 1.659 | 51.5 | 201.1 | --- | 2.443 | 13.88 | 0.515 | 73.1 | 301.0 | 23.0 | 0.302 |
| 4-2130 | 4-2610 | 0.411 | 181.3 | -47.1 | -13.75 | 1.189 | 75.3 | 0.470 | 1.686 | 47.3 | 202.3 | --- | 2.478 | 16.72 | 0.517 | 72.5 | 305.8 | 26.6 | 0.317 |
| 4-2130 | 4-2630 | 0.461 | 169.5 | -55.5 | -18.46 | 1.193 | 76.6 | 0.468 | 1.713 | 43.2 | 203.5 | --- | 2.514 | 21.09 | 0.519 | 71.9 | 311.5 | 31.3 | 0.342 |
| 4-2130 | 4-2650 | 0.570 | 146.9 | -60.3 | -26.16 | 1.196 | 77.7 | 0.468 | 1.738 | 39.3 | 204.5 | --- | 2.552 | 28.44 | 0.520 | 71.3 | 319.3 | 37.1 | 0.389 |
| 4-2130 | 4-2670 | 0.801 | 119.5 | -55.6 | -40.45 | 1.200 | 78.7 | 0.469 | 1.763 | 36.0 | 205.6 | --- | 2.591 | 42.40 | 0.522 | 70.6 | 331.5 | 42.5 | 0.491 |
| 4-2130 | 4-2730 | 0.833 | 244.4 | 73.1 | 42.84 | 1.209 | 84.5 | 0.465 | 1.835 | 17.5 | 208.0 | --- | 2.688 | -41.83 | 0.524 | 69.7 | 344.7 | -43.1 | 0.480 |
| 4-2140 | 4-2260 | 0.889 | 179.7 | 9.2 | 9.64 | 1.153 | 41.7 | 0.778 | 1.489 | 122.0 | 159.5 | --- | --- | 11.76 | 0.501 | 135.1 | 292.1 | 7.8 | 0.528 |
| 4-2140 | 4-2280 | 0.825 | 179.9 | 8.1 | 7.74 | 1.127 | 44.4 | 0.739 | 1.367 | 120.9 | 164.7 | --- | --- | 10.32 | 0.441 | 124.2 | 289.2 | 8.5 | 0.444 |
| 4-2140 | 4-2300 | 0.776 | 180.5 | 6.9 | 6.24 | 1.114 | 46.8 | 0.707 | 1.318 | 118.9 | 169.1 | --- | --- | 9.29 | 0.411 | 113.7 | 286.1 | 9.0 | 0.387 |
| 4-2140 | 4-2320 | 0.736 | 181.4 | 5.6 | 4.98 | 1.110 | 48.9 | 0.680 | 1.302 | 116.2 | 172.9 | --- | --- | 8.54 | 0.401 | 104.6 | 283.0 | 9.5 | 0.349 |
| 4-2140 | 4-2340 | 0.701 | 182.4 | 4.2 | 3.90 | 1.111 | 50.8 | 0.657 | 1.304 | 113.1 | 176.2 | --- | --- | 8.00 | 0.403 | 97.1 | 280.3 | 9.9 | 0.324 |
| 4-2140 | 4-2360 | 0.670 | 183.6 | 2.7 | 2.93 | 1.114 | 52.7 | 0.635 | 1.317 | 109.7 | 179.3 | --- | --- | 7.61 | 0.412 | 91.3 | 278.2 | 10.2 | 0.308 |
| 4-2140 | 4-2380 | 0.640 | 184.9 | 1.0 | 2.05 | 1.119 | 54.5 | 0.616 | 1.336 | 106.1 | 182.0 | --- | 2.160 | 7.35 | 0.423 | 86.7 | 277.0 | 10.4 | 0.298 |
| 4-2140 | 4-2400 | 0.613 | 186.3 | -0.7 | 1.21 | 1.125 | 56.2 | 0.598 | 1.360 | 102.2 | 184.6 | --- | 2.174 | 7.19 | 0.435 | 83.3 | 276.6 | 10.6 | 0.293 |
| 4-2140 | 4-2420 | 0.586 | 187.7 | -2.6 | 0.41 | 1.131 | 57.9 | 0.582 | 1.387 | 98.1 | 186.9 | --- | 2.194 | 7.13 | 0.447 | 80.6 | 277.0 | 10.9 | 0.290 |
| 4-2140 | 4-2440 | 0.561 | 189.1 | -4.6 | -0.38 | 1.138 | 59.5 | 0.567 | 1.415 | 93.9 | 189.0 | --- | 2.217 | 7.16 | 0.458 | 78.6 | 278.1 | 11.2 | 0.289 |
| 4-2140 | 4-2460 | 0.536 | 190.5 | -6.9 | -1.18 | 1.144 | 61.1 | 0.553 | 1.445 | 89.7 | 191.0 | --- | 2.244 | 7.27 | 0.469 | 77.0 | 279.8 | 11.5 | 0.289 |
| 4-2140 | 4-2480 | 0.513 | 191.8 | -9.4 | -2.00 | 1.150 | 62.7 | 0.541 | 1.475 | 85.3 | 192.9 | --- | 2.273 | 7.48 | 0.478 | 75.7 | 282.1 | 12.0 | 0.290 |
| 4-2140 | 4-2500 | 0.490 | 193.1 | -12.3 | -2.88 | 1.156 | 64.2 | 0.530 | 1.506 | 80.9 | 194.6 | --- | 2.303 | 7.78 | 0.485 | 74.7 | 284.7 | 12.6 | 0.291 |
| 4-2140 | 4-2520 | 0.470 | 194.3 | -15.5 | -3.82 | 1.162 | 65.7 | 0.520 | 1.536 | 76.5 | 196.1 | --- | 2.335 | 8.21 | 0.492 | 73.9 | 287.8 | 13.3 | 0.293 |
| 4-2140 | 4-2540 | 0.451 | 195.3 | -19.2 | -4.86 | 1.167 | 67.2 | 0.511 | 1.567 | 72.1 | 197.6 | --- | 2.367 | 8.77 | 0.498 | 73.2 | 291.1 | 14.3 | 0.295 |
| 4-2140 | 4-2560 | 0.435 | 196.1 | -23.5 | -6.06 | 1.172 | 68.6 | 0.504 | 1.597 | 67.7 | 199.0 | --- | 2.401 | 9.51 | 0.503 | 72.6 | 294.7 | 15.5 | 0.297 |
| 4-2140 | 4-2580 | 0.422 | 196.4 | -28.6 | -7.45 | 1.177 | 70.0 | 0.498 | 1.626 | 63.2 | 200.3 | --- | 2.435 | 10.49 | 0.507 | 72.1 | 298.5 | 17.0 | 0.300 |
| 4-2140 | 4-2600 | 0.415 | 195.9 | -34.5 | -9.15 | 1.182 | 71.4 | 0.492 | 1.655 | 58.9 | 201.5 | --- | 2.470 | 11.79 | 0.510 | 71.6 | 302.5 | 18.9 | 0.305 |
| 4-2140 | 4-2620 | 0.416 | 194.0 | -41.3 | -11.31 | 1.186 | 72.8 | 0.488 | 1.683 | 54.6 | 202.6 | --- | 2.505 | 13.56 | 0.513 | 71.1 | 306.9 | 21.4 | 0.311 |
| 4-2140 | 4-2640 | 0.432 | 189.5 | -49.0 | -14.18 | 1.190 | 74.1 | 0.485 | 1.711 | 50.3 | 203.7 | --- | 2.541 | 16.07 | 0.515 | 70.7 | 311.7 | 24.7 | 0.322 |
| 4-2140 | 4-2660 | 0.471 | 179.6 | -56.7 | -18.25 | 1.194 | 75.3 | 0.483 | 1.738 | 46.3 | 204.8 | --- | 2.577 | 19.79 | 0.517 | 70.2 | 317.2 | 28.9 | 0.341 |
| 4-2140 | 4-2680 | 0.554 | 160.0 | -62.1 | -24.56 | 1.197 | 76.5 | 0.482 | 1.765 | 42.4 | 205.8 | --- | 2.614 | 25.76 | 0.519 | 69.7 | 324.1 | 34.2 | 0.376 |
| 4-2140 | 4-2700 | 0.723 | 132.9 | -60.1 | -35.45 | 1.201 | 77.6 | 0.482 | 1.790 | 38.9 | 206.8 | --- | 2.653 | 36.32 | 0.520 | 69.2 | 334.2 | 40.1 | 0.447 |
| 4-2140 | 4-2720 | 1.068 | 114.1 | -47.4 | -56.50 | 1.204 | 78.4 | 0.484 | 1.815 | 36.3 | 207.8 | --- | 2.694 | 57.05 | 0.521 | 68.5 | 350.3 | 42.8 | 0.599 |
| 4-2150 | 4-2270 | 0.985 | 182.9 | 6.5 | 10.95 | 1.124 | 34.9 | 0.834 | 1.367 | 134.6 | 165.6 | --- | --- | 13.83 | 0.439 | 137.3 | 288.3 | 7.5 | 0.546 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2150 | 4-2290 | 0.914 | 183.6 | 5.3 | 8.41 | 1.102 | 38.2 | 0.797 | 1.283 | 132.0 | 169.3 | --- | --- | 11.72 | 0.384 | 124.4 | 285.4 | 7.9 | 0.466 |
| 4-2150 | 4-2310 | 0.859 | 184.7 | 3.9 | 6.50 | 1.094 | 41.1 | 0.765 | 1.253 | 129.0 | 172.6 | --- | --- | 10.27 | 0.362 | 112.1 | 282.5 | 8.3 | 0.412 |
| 4-2150 | 4-2330 | 0.814 | 185.9 | 2.5 | 4.99 | 1.093 | 43.7 | 0.736 | 1.250 | 125.6 | 175.7 | --- | --- | 9.23 | 0.359 | 101.8 | 280.0 | 8.6 | 0.376 |
| 4-2150 | 4-2350 | 0.775 | 187.3 | 1.0 | 3.74 | 1.096 | 46.1 | 0.709 | 1.260 | 122.0 | 178.5 | --- | --- | 8.48 | 0.368 | 93.7 | 278.0 | 8.9 | 0.352 |
| 4-2150 | 4-2370 | 0.739 | 188.7 | -0.5 | 2.66 | 1.102 | 48.2 | 0.685 | 1.279 | 118.1 | 181.1 | --- | 2.156 | 7.94 | 0.383 | 87.7 | 276.7 | 9.0 | 0.337 |
| 4-2150 | 4-2390 | 0.707 | 190.2 | -2.1 | 1.71 | 1.108 | 50.3 | 0.663 | 1.304 | 114.1 | 183.5 | --- | 2.168 | 7.55 | 0.399 | 83.2 | 276.2 | 9.2 | 0.327 |
| 4-2150 | 4-2410 | 0.676 | 191.7 | -3.8 | 0.83 | 1.115 | 52.3 | 0.642 | 1.332 | 110.0 | 185.8 | --- | 2.187 | 7.29 | 0.415 | 79.9 | 276.5 | 9.3 | 0.321 |
| 4-2150 | 4-2430 | 0.647 | 193.2 | -5.6 | 0.02 | 1.123 | 54.2 | 0.623 | 1.362 | 105.8 | 187.9 | --- | 2.211 | 7.13 | 0.430 | 77.4 | 277.4 | 9.5 | 0.317 |
| 4-2150 | 4-2450 | 0.619 | 194.7 | -7.5 | -0.77 | 1.130 | 56.0 | 0.606 | 1.393 | 101.5 | 189.9 | --- | 2.237 | 7.07 | 0.443 | 75.6 | 279.0 | 9.7 | 0.314 |
| 4-2150 | 4-2470 | 0.592 | 196.1 | -9.6 | -1.54 | 1.137 | 57.7 | 0.590 | 1.426 | 97.1 | 191.7 | --- | 2.266 | 7.09 | 0.455 | 74.2 | 281.1 | 10.0 | 0.313 |
| 4-2150 | 4-2490 | 0.567 | 197.6 | -11.8 | -2.32 | 1.144 | 59.4 | 0.575 | 1.458 | 92.7 | 193.4 | --- | 2.297 | 7.19 | 0.466 | 73.1 | 283.6 | 10.3 | 0.312 |
| 4-2150 | 4-2510 | 0.543 | 199.0 | -14.3 | -3.12 | 1.151 | 61.1 | 0.562 | 1.491 | 88.2 | 195.0 | --- | 2.329 | 7.38 | 0.475 | 72.3 | 286.5 | 10.8 | 0.311 |
| 4-2150 | 4-2530 | 0.520 | 200.4 | -17.0 | -3.95 | 1.157 | 62.7 | 0.550 | 1.524 | 83.8 | 196.5 | --- | 2.362 | 7.67 | 0.483 | 71.7 | 289.7 | 11.4 | 0.310 |
| 4-2150 | 4-2550 | 0.498 | 201.6 | -20.1 | -4.85 | 1.163 | 64.3 | 0.539 | 1.556 | 79.3 | 197.9 | --- | 2.396 | 8.06 | 0.490 | 71.1 | 293.1 | 12.1 | 0.310 |
| 4-2150 | 4-2570 | 0.479 | 202.7 | -23.6 | -5.84 | 1.168 | 65.8 | 0.530 | 1.588 | 74.9 | 199.3 | --- | 2.429 | 8.58 | 0.495 | 70.7 | 296.7 | 13.0 | 0.310 |
| 4-2150 | 4-2590 | 0.462 | 203.5 | -27.6 | -6.96 | 1.174 | 67.3 | 0.522 | 1.619 | 70.4 | 200.5 | --- | 2.464 | 9.25 | 0.500 | 70.3 | 300.5 | 14.1 | 0.310 |
| 4-2150 | 4-2610 | 0.449 | 204.0 | -32.1 | -8.25 | 1.178 | 68.7 | 0.515 | 1.649 | 66.1 | 201.7 | --- | 2.498 | 10.13 | 0.504 | 70.0 | 304.5 | 15.5 | 0.312 |
| 4-2150 | 4-2630 | 0.441 | 203.9 | -37.4 | -9.80 | 1.183 | 70.1 | 0.509 | 1.679 | 61.7 | 202.8 | --- | 2.534 | 11.29 | 0.508 | 69.6 | 308.6 | 17.3 | 0.314 |
| 4-2150 | 4-2650 | 0.439 | 202.6 | -43.5 | -11.72 | 1.187 | 71.5 | 0.504 | 1.708 | 57.5 | 203.9 | --- | 2.569 | 12.85 | 0.511 | 69.3 | 313.0 | 19.5 | 0.318 |
| 4-2150 | 4-2670 | 0.449 | 199.2 | -50.4 | -14.22 | 1.191 | 72.8 | 0.500 | 1.737 | 53.3 | 204.9 | --- | 2.605 | 14.99 | 0.513 | 68.9 | 317.7 | 22.4 | 0.325 |
| 4-2150 | 4-2690 | 0.477 | 191.6 | -57.5 | -17.66 | 1.195 | 74.1 | 0.497 | 1.764 | 49.2 | 205.9 | --- | 2.641 | 18.09 | 0.515 | 68.6 | 322.9 | 26.1 | 0.338 |
| 4-2150 | 4-2710 | 0.537 | 175.6 | -63.6 | -22.74 | 1.199 | 75.4 | 0.495 | 1.791 | 45.3 | 206.8 | --- | 2.678 | 22.84 | 0.517 | 68.2 | 329.1 | 30.9 | 0.362 |
| 4-2150 | 4-2730 | 0.657 | 149.2 | -64.5 | -31.00 | 1.202 | 76.5 | 0.494 | 1.817 | 41.7 | 207.8 | --- | 2.715 | 30.77 | 0.519 | 67.7 | 337.4 | 36.8 | 0.410 |
| 4-2150 | 4-2750 | 0.901 | 126.0 | -56.0 | -46.09 | 1.205 | 77.4 | 0.495 | 1.842 | 38.6 | 208.7 | --- | 2.754 | 45.56 | 0.521 | 67.2 | 350.4 | 41.9 | 0.513 |
| 4-2160 | 4-2280 | 1.081 | 186.6 | 3.8 | 13.00 | 1.100 | 27.9 | 0.889 | 1.281 | 145.6 | 170.1 | --- | --- | 16.58 | 0.381 | 141.0 | 285.3 | 6.8 | 0.577 |
| 4-2160 | 4-2300 | 1.004 | 187.9 | 2.4 | 9.39 | 1.081 | 31.9 | 0.854 | 1.219 | 141.8 | 172.6 | --- | --- | 13.38 | 0.328 | 125.6 | 282.7 | 7.1 | 0.498 |
| 4-2160 | 4-2320 | 0.943 | 189.3 | 0.9 | 6.90 | 1.076 | 35.4 | 0.821 | 1.201 | 138.0 | 175.2 | --- | --- | 11.31 | 0.311 | 110.8 | 280.2 | 7.4 | 0.445 |
| 4-2160 | 4-2340 | 0.893 | 190.9 | -0.6 | 5.05 | 1.077 | 38.4 | 0.790 | 1.206 | 134.1 | 177.6 | --- | --- | 9.90 | 0.316 | 98.9 | 278.2 | 7.5 | 0.410 |
| 4-2160 | 4-2360 | 0.849 | 192.4 | -2.1 | 3.59 | 1.082 | 41.2 | 0.762 | 1.222 | 130.0 | 180.0 | --- | --- | 8.89 | 0.333 | 90.0 | 276.9 | 7.7 | 0.386 |
| 4-2160 | 4-2380 | 0.810 | 194.1 | -3.6 | 2.39 | 1.089 | 43.7 | 0.735 | 1.246 | 125.9 | 182.3 | --- | 2.162 | 8.17 | 0.353 | 83.8 | 276.2 | 7.7 | 0.370 |
| 4-2160 | 4-2400 | 0.774 | 195.7 | -5.2 | 1.35 | 1.097 | 46.0 | 0.711 | 1.274 | 121.6 | 184.4 | --- | 2.179 | 7.65 | 0.373 | 79.3 | 276.4 | 7.8 | 0.359 |
| 4-2160 | 4-2420 | 0.741 | 197.3 | -6.8 | 0.44 | 1.106 | 48.2 | 0.688 | 1.305 | 117.3 | 186.5 | --- | 2.202 | 7.28 | 0.393 | 76.2 | 277.1 | 7.9 | 0.351 |
| 4-2160 | 4-2440 | 0.709 | 198.9 | -8.5 | -0.39 | 1.114 | 50.3 | 0.666 | 1.338 | 113.0 | 188.5 | --- | 2.229 | 7.02 | 0.411 | 74.0 | 278.6 | 8.0 | 0.345 |
| 4-2160 | 4-2460 | 0.679 | 200.5 | -10.3 | -1.17 | 1.123 | 52.3 | 0.647 | 1.372 | 108.6 | 190.3 | --- | 2.259 | 6.87 | 0.427 | 72.4 | 280.5 | 8.2 | 0.341 |
| 4-2160 | 4-2480 | 0.650 | 202.1 | -12.2 | -1.91 | 1.131 | 54.3 | 0.628 | 1.406 | 104.1 | 192.0 | --- | 2.290 | 6.80 | 0.441 | 71.2 | 282.9 | 8.4 | 0.337 |
| 4-2160 | 4-2500 | 0.623 | 203.7 | -14.2 | -2.64 | 1.138 | 56.1 | 0.611 | 1.441 | 99.7 | 193.7 | --- | 2.322 | 6.82 | 0.454 | 70.4 | 285.6 | 8.7 | 0.334 |
| 4-2160 | 4-2520 | 0.596 | 205.2 | -16.3 | -3.37 | 1.145 | 57.9 | 0.596 | 1.476 | 95.2 | 195.2 | --- | 2.355 | 6.91 | 0.464 | 69.8 | 288.6 | 9.1 | 0.332 |
| 4-2160 | 4-2540 | 0.572 | 206.7 | -18.7 | -4.12 | 1.152 | 59.6 | 0.582 | 1.510 | 90.7 | 196.7 | --- | 2.389 | 7.07 | 0.473 | 69.3 | 291.9 | 9.5 | 0.329 |
| 4-2160 | 4-2560 | 0.548 | 208.1 | -21.3 | -4.89 | 1.158 | 61.3 | 0.570 | 1.544 | 86.3 | 198.1 | --- | 2.424 | 7.33 | 0.481 | 68.9 | 295.4 | 10.1 | 0.327 |
| 4-2160 | 4-2580 | 0.526 | 209.5 | -24.1 | -5.72 | 1.164 | 62.9 | 0.559 | 1.577 | 81.8 | 199.4 | --- | 2.458 | 7.67 | 0.488 | 68.6 | 299.0 | 10.7 | 0.325 |
| 4-2160 | 4-2600 | 0.507 | 210.7 | -27.3 | -6.63 | 1.170 | 64.4 | 0.549 | 1.610 | 77.4 | 200.6 | --- | 2.493 | 8.13 | 0.493 | 68.4 | 302.8 | 11.6 | 0.323 |
| 4-2160 | 4-2620 | 0.489 | 211.7 | -30.9 | -7.64 | 1.175 | 66.0 | 0.540 | 1.642 | 73.0 | 201.7 | --- | 2.528 | 8.72 | 0.498 | 68.2 | 306.7 | 12.6 | 0.322 |
| 4-2160 | 4-2640 | 0.475 | 212.5 | -35.0 | -8.80 | 1.180 | 67.4 | 0.532 | 1.673 | 68.7 | 202.8 | --- | 2.564 | 9.49 | 0.502 | 67.9 | 310.8 | 13.8 | 0.321 |
| 4-2160 | 4-2660 | 0.464 | 212.8 | -39.7 | -10.17 | 1.184 | 68.9 | 0.525 | 1.704 | 64.5 | 203.9 | --- | 2.599 | 10.49 | 0.506 | 67.7 | 314.9 | 15.4 | 0.322 |
| 4-2160 | 4-2680 | 0.460 | 212.2 | -45.0 | -11.84 | 1.188 | 70.3 | 0.520 | 1.733 | 60.3 | 204.9 | --- | 2.634 | 11.81 | 0.509 | 67.5 | 319.2 | 17.3 | 0.323 |
| 4-2160 | 4-2700 | 0.464 | 210.2 | -51.1 | -13.96 | 1.192 | 71.6 | 0.515 | 1.762 | 56.1 | 205.9 | --- | 2.670 | 13.59 | 0.511 | 67.2 | 323.8 | 19.8 | 0.327 |
| 4-2160 | 4-2720 | 0.481 | 205.1 | -57.8 | -16.78 | 1.196 | 72.9 | 0.512 | 1.790 | 52.1 | 206.8 | --- | 2.705 | 16.10 | 0.514 | 67.0 | 328.7 | 23.0 | 0.335 |
| 4-2160 | 4-2740 | 0.522 | 193.6 | -64.3 | -20.80 | 1.200 | 74.2 | 0.509 | 1.817 | 48.2 | 207.8 | --- | 2.741 | 19.80 | 0.516 | 66.7 | 334.2 | 27.2 | 0.351 |
| 4-2160 | 4-2760 | 0.603 | 170.3 | -68.0 | -27.01 | 1.203 | 75.4 | 0.507 | 1.843 | 44.5 | 208.7 | --- | 2.777 | 25.71 | 0.518 | 66.3 | 341.1 | 32.7 | 0.381 |
| 4-2170 | 4-2290 | 1.178 | 190.8 | 1.1 | 16.49 | 1.080 | 20.9 | 0.936 | 1.221 | 155.3 | 173.4 | --- | --- | 20.73 | 0.329 | 146.8 | 283.5 | 5.9 | 0.617 |
| 4-2170 | 4-2310 | 1.093 | 192.5 | -0.4 | 10.92 | 1.063 | 25.5 | 0.905 | 1.171 | 150.7 | 175.1 | --- | --- | 15.53 | 0.273 | 128.3 | 281.2 | 6.1 | 0.538 |
| 4-2170 | 4-2330 | 1.027 | 194.3 | -2.0 | 7.51 | 1.059 | 29.5 | 0.873 | 1.160 | 146.3 | 176.9 | --- | --- | 12.49 | 0.260 | 110.0 | 279.2 | 6.3 | 0.484 |
| 4-2170 | 4-2350 | 0.971 | 196.1 | -3.5 | 5.17 | 1.063 | 33.0 | 0.842 | 1.170 | 141.9 | 178.9 | --- | --- | 10.55 | 0.272 | 95.7 | 277.7 | 6.4 | 0.448 |
| 4-2170 | 4-2370 | 0.924 | 197.9 | -5.0 | 3.45 | 1.069 | 36.2 | 0.812 | 1.190 | 137.5 | 180.9 | --- | 2.156 | 9.23 | 0.296 | 85.9 | 276.9 | 6.4 | 0.423 |
| 4-2170 | 4-2390 | 0.881 | 199.7 | -6.6 | 2.09 | 1.078 | 39.0 | 0.784 | 1.216 | 133.1 | 183.0 | --- | 2.171 | 8.30 | 0.322 | 79.4 | 276.8 | 6.5 | 0.405 |
| 4-2170 | 4-2410 | 0.842 | 201.5 | -8.1 | 0.97 | 1.087 | 41.6 | 0.758 | 1.247 | 128.7 | 184.9 | --- | 2.192 | 7.63 | 0.348 | 75.1 | 277.4 | 6.5 | 0.392 |
| 4-2170 | 4-2430 | 0.806 | 203.2 | -9.7 | 0.02 | 1.097 | 44.1 | 0.733 | 1.280 | 124.2 | 186.8 | --- | 2.219 | 7.14 | 0.371 | 72.2 | 278.6 | 6.6 | 0.383 |
| PLANET= | | | | | | | | | | | | | | | | | | | |
| 4-2170 | 4-2450 | 0.772 | 205.0 | -11.3 | -0.82 | 1.106 | 46.4 | 0.710 | 1.315 | 119.8 | 188.7 | --- | 2.249 | 6.79 | 0.392 | 70.3 | 280.3 | 6.7 | 0.375 |
| 4-2170 | 4-2470 | 0.740 | 206.7 | -12.9 | -1.59 | 1.115 | 48.6 | 0.688 | 1.351 | 115.3 | 190.4 | --- | 2.281 | 6.56 | 0.411 | 68.9 | 282.5 | 6.8 | 0.369 |
| 4-2170 | 4-2490 | 0.709 | 208.4 | -14.7 | -2.30 | 1.124 | 50.7 | 0.668 | 1.387 | 110.8 | 192.1 | --- | 2.314 | 6.41 | 0.427 | 68.0 | 285.0 | 7.0 | 0.363 |
| 4-2170 | 4-2510 | 0.680 | 210.0 | -16.5 | -2.99 | 1.132 | 52.7 | 0.649 | 1.424 | 106.3 | 193.7 | --- | 2.348 | 6.34 | 0.441 | 67.4 | 287.9 | 7.2 | 0.359 |
| 4-2170 | 4-2530 | 0.652 | 211.7 | -18.4 | -3.65 | 1.140 | 54.6 | 0.632 | 1.460 | 101.9 | 195.2 | --- | 2.383 | 6.35 | 0.453 | 67.0 | 291.1 | 7.5 | 0.354 |
| 4-2170 | 4-2550 | 0.625 | 213.3 | -20.4 | -4.31 | 1.147 | 56.4 | 0.616 | 1.496 | 97.4 | 196.6 | --- | 2.418 | 6.42 | 0.463 | 66.7 | 294.4 | 7.8 | 0.350 |
| 4-2170 | 4-2570 | 0.600 | 214.9 | -22.6 | -4.99 | 1.154 | 58.2 | 0.602 | 1.531 | 93.0 | 198.0 | --- | 2.453 | 6.56 | 0.472 | 66.5 | 297.9 | 8.2 | 0.346 |
| 4-2170 | 4-2590 | 0.576 | 216.4 | -24.9 | -5.68 | 1.160 | 59.9 | 0.589 | 1.566 | 88.5 | 199.2 | --- | 2.488 | 6.77 | 0.479 | 66.4 | 301.6 | 8.7 | 0.342 |
| 4-2170 | 4-2610 | 0.554 | 217.9 | -27.5 | -6.43 | 1.166 | 61.5 | 0.577 | 1.600 | 84.2 | 200.5 | --- | 2.524 | 7.07 | 0.486 | 66.3 | 305.4 | 9.3 | 0.338 |
| 4-2170 | 4-2630 | 0.533 | 219.3 | -30.4 | -7.23 | 1.171 | 63.1 | 0.567 | 1.634 | 79.8 | 201.6 | --- | 2.559 | 7.46 | 0.491 | 66.2 | 309.2 | 10.0 | 0.335 |
| 4-2170 | 4-2650 | 0.515 | 220.6 | -33.5 | -8.11 | 1.176 | 64.7 | 0.557 | 1.666 | 75.5 | 202.7 | --- | 2.595 | 7.96 | 0.496 | 66.1 | 313.2 | 10.9 | 0.332 |
| 4-2170 | 4-2670 | 0.499 | 221.7 | -37.1 | -9.12 | 1.181 | 66.1 | 0.549 | 1.698 | 71.3 | 203.8 | --- | 2.630 | 8.61 | 0.500 | 66.0 | 317.2 | 12.0 | 0.330 |
| 4-2170 | 4-2690 | 0.487 | 222.5 | -41.2 | -10.29 | 1.186 | 67.6 | 0.542 | 1.728 | 67.1 | 204.8 | --- | 2.665 | 9.43 | 0.504 | 65.9 | 321.3 | 13.3 | 0.328 |
| 4-2170 | 4-2710 | 0.479 | 222.8 | -45.8 | -11.69 | 1.190 | 69.0 | 0.536 | 1.758 | 63.0 | 205.8 | --- | 2.700 | 10.51 | 0.507 | 65.8 | 325.6 | 14.9 | 0.328 |
| 4-2170 | 4-2730 | 0.477 | 222.1 | -51.1 | -13.44 | 1.194 | 70.4 | 0.531 | 1.787 | 58.9 | 206.7 | --- | 2.735 | 11.95 | 0.510 | 65.6 | 330.0 | 17.0 | 0.329 |
| 4-2170 | 4-2750 | 0.486 | 219.6 | -57.2 | -15.71 | 1.197 | 71.7 | 0.526 | 1.815 | 55.0 | 207.7 | --- | 2.770 | 13.92 | 0.513 | 65.4 | 334.6 | 19.7 | 0.333 |
| 4-2170 | 4-2770 | 0.510 | 212.9 | -63.7 | -18.82 | 1.201 | 73.0 | 0.523 | 1.842 | 51.1 | 208.6 | --- | 2.805 | 16.75 | 0.515 | 65.2 | 339.6 | 23.3 | 0.341 |
| 4-2180 | 4-2320 | 1.182 | 197.4 | -3.2 | 13.57 | 1.048 | 19.0 | 0.946 | 1.136 | 158.8 | 176.8 | --- | --- | 18.73 | 0.221 | 133.6 | 280.7 | 5.1 | 0.583 |
| 4-2180 | 4-2340 | 1.110 | 199.5 | -4.8 | 8.48 | 1.046 | 23.5 | 0.918 | 1.129 | 153.9 | 178.1 | --- | --- | 13.98 | 0.209 | 110.0 | 279.2 | 5.1 | 0.528 |
| 4-2180 | 4-2360 | 1.050 | 201.6 | -6.4 | 5.40 | 1.050 | 27.5 | 0.889 | 1.140 | 149.1 | 179.7 | --- | --- | 11.23 | 0.228 | 92.3 | 278.2 | 5.2 | 0.490 |
| 4-2180 | 4-2380 | 0.999 | 203.6 | -7.9 | 3.30 | 1.058 | 31.0 | 0.859 | 1.163 | 144.4 | 181.5 | --- | 2.162 | 9.49 | 0.259 | 81.2 | 277.8 | 5.2 | 0.463 |
| 4-2180 | 4-2400 | 0.953 | 205.6 | -9.4 | 1.75 | 1.068 | 34.2 | 0.831 | 1.191 | 139.9 | 183.3 | --- | 2.181 | 8.30 | 0.291 | 74.5 | 278.1 | 5.3 | 0.443 |
| 4-2180 | 4-2420 | 0.911 | 207.5 | -10.9 | 0.54 | 1.078 | 37.2 | 0.804 | 1.223 | 135.3 | 185.1 | --- | 2.206 | 7.47 | 0.322 | 70.4 | 279.0 | 5.3 | 0.428 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2180 | 4-2440 | 0.872 | 209.4 | -12.4 | -0.46 | 1.088 | 39.9 | 0.778 | 1.258 | 130.8 | 186.8 | --- | 2.236 | 6.87 | 0.349 | 67.9 | 280.5 | 5.3 | 0.416 |
| 4-2180 | 4-2460 | 0.836 | 211.2 | -13.9 | -1.31 | 1.099 | 42.4 | 0.753 | 1.294 | 126.2 | 188.6 | --- | 2.269 | 6.43 | 0.373 | 66.2 | 282.5 | 5.4 | 0.406 |
| 4-2180 | 4-2480 | 0.802 | 213.1 | -15.4 | -2.05 | 1.108 | 44.8 | 0.730 | 1.332 | 121.7 | 190.3 | --- | 2.303 | 6.12 | 0.394 | 65.2 | 284.9 | 5.5 | 0.398 |
| 4-2180 | 4-2500 | 0.769 | 214.9 | -17.0 | -2.73 | 1.118 | 47.0 | 0.708 | 1.369 | 117.2 | 191.9 | --- | 2.338 | 5.91 | 0.412 | 64.6 | 287.6 | 5.6 | 0.391 |
| 4-2180 | 4-2520 | 0.738 | 216.6 | -18.6 | -3.36 | 1.126 | 49.2 | 0.688 | 1.407 | 112.8 | 193.4 | --- | 2.374 | 5.77 | 0.427 | 64.2 | 290.6 | 5.8 | 0.384 |
| 4-2180 | 4-2540 | 0.709 | 218.4 | -20.3 | -3.96 | 1.135 | 51.2 | 0.669 | 1.444 | 108.3 | 194.9 | --- | 2.410 | 5.70 | 0.440 | 64.0 | 293.8 | 6.0 | 0.377 |
| 4-2180 | 4-2560 | 0.680 | 220.1 | -22.0 | -4.55 | 1.142 | 53.2 | 0.651 | 1.482 | 103.8 | 196.3 | --- | 2.447 | 5.70 | 0.452 | 64.0 | 297.2 | 6.2 | 0.371 |
| 4-2180 | 4-2580 | 0.653 | 221.9 | -23.9 | -5.13 | 1.149 | 55.0 | 0.635 | 1.518 | 99.4 | 197.7 | --- | 2.483 | 5.75 | 0.462 | 64.0 | 300.7 | 6.5 | 0.366 |
| 4-2180 | 4-2600 | 0.628 | 223.5 | -25.9 | -5.71 | 1.156 | 56.8 | 0.621 | 1.554 | 95.1 | 198.9 | --- | 2.519 | 5.87 | 0.470 | 64.0 | 304.3 | 6.9 | 0.360 |
| 4-2180 | 4-2620 | 0.604 | 225.2 | -28.0 | -6.32 | 1.162 | 58.5 | 0.608 | 1.589 | 90.7 | 200.1 | --- | 2.555 | 6.04 | 0.477 | 64.0 | 308.1 | 7.3 | 0.355 |
| 4-2180 | 4-2640 | 0.581 | 226.9 | -30.2 | -6.95 | 1.168 | 60.2 | 0.595 | 1.624 | 86.4 | 201.3 | --- | 2.591 | 6.28 | 0.484 | 64.1 | 311.9 | 7.8 | 0.350 |
| 4-2180 | 4-2660 | 0.560 | 228.5 | -32.7 | -7.64 | 1.173 | 61.8 | 0.585 | 1.657 | 82.2 | 202.4 | --- | 2.628 | 6.60 | 0.489 | 64.1 | 315.8 | 8.4 | 0.345 |
| 4-2180 | 4-2680 | 0.540 | 230.1 | -35.5 | -8.39 | 1.178 | 63.3 | 0.575 | 1.690 | 78.0 | 203.5 | --- | 2.662 | 7.00 | 0.494 | 64.1 | 319.8 | 9.1 | 0.341 |
| 4-2180 | 4-2700 | 0.523 | 231.5 | -38.5 | -9.22 | 1.183 | 64.8 | 0.566 | 1.722 | 73.8 | 204.5 | --- | 2.697 | 7.52 | 0.498 | 64.1 | 323.8 | 10.0 | 0.337 |
| 4-2180 | 4-2720 | 0.509 | 232.9 | -42.0 | -10.19 | 1.187 | 66.3 | 0.559 | 1.753 | 69.7 | 205.5 | --- | 2.732 | 8.18 | 0.502 | 64.1 | 327.9 | 11.1 | 0.334 |
| 4-2180 | 4-2740 | 0.498 | 233.9 | -45.9 | -11.33 | 1.191 | 67.7 | 0.552 | 1.783 | 65.7 | 206.5 | --- | 2.768 | 9.04 | 0.506 | 64.0 | 332.0 | 12.4 | 0.332 |
| 4-2180 | 4-2760 | 0.491 | 234.5 | -50.4 | -12.72 | 1.195 | 69.1 | 0.546 | 1.812 | 61.7 | 207.5 | --- | 2.800 | 10.16 | 0.509 | 64.0 | 336.2 | 14.1 | 0.331 |
| 4-2180 | 4-2780 | 0.491 | 234.1 | -55.6 | -14.49 | 1.198 | 70.4 | 0.541 | 1.840 | 57.8 | 208.4 | --- | 2.835 | 11.66 | 0.512 | 63.8 | 340.6 | 16.3 | 0.331 |
| 4-2190 | 4-2330 | 1.269 | 202.6 | -5.9 | 19.07 | 1.038 | 12.5 | 0.976 | 1.113 | 166.3 | 178.1 | --- | --- | 24.72 | 0.176 | 143.1 | 281.3 | 4.0 | 0.633 |
| 4-2190 | 4-2350 | 1.192 | 205.0 | -7.5 | 10.19 | 1.035 | 17.5 | 0.954 | 1.106 | 161.0 | 178.9 | --- | --- | 16.12 | 0.157 | 111.5 | 280.1 | 4.0 | 0.575 |
| 4-2190 | 4-2370 | 1.128 | 207.3 | -9.1 | 5.79 | 1.040 | 21.9 | 0.928 | 1.118 | 155.9 | 180.1 | --- | 2.155 | 12.01 | 0.182 | 88.2 | 279.5 | 4.1 | 0.534 |
| 4-2190 | 4-2390 | 1.073 | 209.5 | -10.6 | 3.14 | 1.048 | 25.8 | 0.901 | 1.140 | 151.0 | 181.6 | --- | 2.168 | 9.66 | 0.221 | 75.6 | 279.5 | 4.1 | 0.504 |
| 4-2190 | 4-2410 | 1.025 | 211.6 | -12.1 | 1.35 | 1.058 | 29.4 | 0.874 | 1.169 | 146.3 | 183.2 | --- | 2.191 | 8.16 | 0.260 | 68.9 | 280.1 | 4.1 | 0.482 |
| 4-2190 | 4-2430 | 0.980 | 213.7 | -13.5 | 0.02 | 1.070 | 32.6 | 0.847 | 1.202 | 141.6 | 184.9 | --- | 2.221 | 7.15 | 0.295 | 65.2 | 281.3 | 4.1 | 0.465 |
| 4-2190 | 4-2450 | 0.939 | 215.8 | -14.9 | -1.01 | 1.081 | 35.6 | 0.820 | 1.238 | 137.0 | 186.6 | --- | 2.253 | 6.44 | 0.326 | 63.1 | 283.0 | 4.2 | 0.451 |
| 4-2190 | 4-2470 | 0.901 | 217.8 | -16.3 | -1.86 | 1.091 | 38.3 | 0.795 | 1.275 | 132.4 | 188.2 | --- | 2.289 | 5.92 | 0.353 | 61.9 | 285.1 | 4.2 | 0.439 |
| 4-2190 | 4-2490 | 0.865 | 219.7 | -17.7 | -2.58 | 1.102 | 40.9 | 0.771 | 1.313 | 127.9 | 189.9 | --- | 2.325 | 5.55 | 0.376 | 61.2 | 287.6 | 4.3 | 0.428 |
| 4-2190 | 4-2510 | 0.831 | 221.6 | -19.2 | -3.22 | 1.112 | 43.3 | 0.748 | 1.352 | 123.4 | 191.4 | --- | 2.363 | 5.28 | 0.396 | 60.9 | 290.4 | 4.4 | 0.419 |
| 4-2190 | 4-2530 | 0.798 | 223.5 | -20.6 | -3.79 | 1.121 | 45.6 | 0.726 | 1.390 | 118.9 | 193.0 | --- | 2.400 | 5.09 | 0.413 | 60.8 | 293.5 | 4.5 | 0.410 |
| 4-2190 | 4-2550 | 0.767 | 225.4 | -22.1 | -4.32 | 1.129 | 47.7 | 0.706 | 1.429 | 114.5 | 194.4 | --- | 2.438 | 4.97 | 0.427 | 60.9 | 296.7 | 4.6 | 0.402 |
| 4-2190 | 4-2570 | 0.737 | 227.2 | -23.6 | -4.83 | 1.137 | 49.8 | 0.688 | 1.467 | 110.1 | 195.8 | --- | 2.475 | 4.91 | 0.440 | 61.0 | 300.1 | 4.8 | 0.394 |
| 4-2190 | 4-2590 | 0.709 | 229.0 | -25.1 | -5.32 | 1.145 | 51.8 | 0.670 | 1.505 | 105.7 | 197.2 | --- | 2.513 | 4.90 | 0.451 | 61.2 | 303.7 | 5.0 | 0.387 |
| 4-2190 | 4-2610 | 0.681 | 230.9 | -26.8 | -5.80 | 1.152 | 53.6 | 0.654 | 1.541 | 101.4 | 198.4 | --- | 2.550 | 4.93 | 0.460 | 61.4 | 307.3 | 5.3 | 0.380 |
| 4-2190 | 4-2630 | 0.656 | 232.7 | -28.5 | -6.29 | 1.158 | 55.4 | 0.639 | 1.578 | 97.1 | 199.7 | --- | 2.586 | 5.02 | 0.468 | 61.6 | 311.0 | 5.5 | 0.373 |
| 4-2190 | 4-2650 | 0.631 | 234.5 | -30.3 | -6.79 | 1.164 | 57.2 | 0.626 | 1.613 | 92.8 | 200.8 | --- | 2.623 | 5.15 | 0.476 | 61.8 | 314.8 | 5.9 | 0.366 |
| 4-2190 | 4-2670 | 0.608 | 236.3 | -32.3 | -7.31 | 1.170 | 58.8 | 0.614 | 1.648 | 88.6 | 202.0 | --- | 2.659 | 5.33 | 0.482 | 61.9 | 318.7 | 6.3 | 0.360 |
| 4-2190 | 4-2690 | 0.586 | 238.2 | -34.4 | -7.87 | 1.175 | 60.5 | 0.602 | 1.681 | 84.5 | 203.1 | --- | 2.694 | 5.58 | 0.487 | 62.1 | 322.6 | 6.8 | 0.355 |
| 4-2190 | 4-2710 | 0.565 | 240.0 | -36.7 | -8.48 | 1.180 | 62.0 | 0.592 | 1.714 | 80.4 | 204.1 | --- | 2.729 | 5.89 | 0.492 | 62.2 | 326.5 | 7.4 | 0.349 |
| 4-2190 | 4-2730 | 0.547 | 241.8 | -39.2 | -9.15 | 1.184 | 63.5 | 0.583 | 1.746 | 76.3 | 205.2 | --- | 2.764 | 6.29 | 0.497 | 62.3 | 330.5 | 8.0 | 0.344 |
| 4-2190 | 4-2750 | 0.530 | 243.6 | -42.0 | -9.91 | 1.189 | 65.0 | 0.575 | 1.777 | 72.3 | 206.2 | --- | 2.798 | 6.79 | 0.501 | 62.3 | 334.5 | 8.9 | 0.340 |
| 4-2190 | 4-2770 | 0.516 | 245.3 | -45.2 | -10.80 | 1.192 | 66.4 | 0.568 | 1.807 | 68.4 | 207.2 | --- | 2.832 | 7.44 | 0.505 | 62.4 | 338.5 | 9.9 | 0.336 |
| 4-2190 | 4-2790 | 0.505 | 246.8 | -48.9 | -11.87 | 1.196 | 67.8 | 0.561 | 1.835 | 64.5 | 208.1 | --- | 2.866 | 8.27 | 0.508 | 62.3 | 342.7 | 11.2 | 0.333 |
| 4-2200 | 4-2360 | 1.273 | 210.7 | -10.2 | 13.79 | 1.027 | 11.4 | 0.980 | 1.090 | 167.8 | 179.4 | --- | --- | 20.10 | 0.107 | 117.0 | 281.8 | 3.0 | 0.623 |
| 4-2200 | 4-2380 | 1.206 | 213.2 | -11.7 | 6.50 | 1.031 | 16.2 | 0.960 | 1.101 | 162.5 | 180.3 | --- | 2.158 | 13.04 | 0.137 | 82.9 | 281.4 | 3.0 | 0.579 |
| 4-2200 | 4-2400 | 1.148 | 215.6 | -13.2 | 2.94 | 1.040 | 20.6 | 0.937 | 1.123 | 157.3 | 181.5 | --- | 2.175 | 9.71 | 0.184 | 68.5 | 281.7 | 3.0 | 0.547 |
| 4-2200 | 4-2420 | 1.096 | 217.9 | -14.6 | 0.81 | 1.051 | 24.5 | 0.912 | 1.152 | 152.4 | 183.0 | --- | 2.202 | 7.82 | 0.230 | 62.2 | 282.6 | 3.0 | 0.522 |
| 4-2200 | 4-2440 | 1.050 | 220.2 | -15.9 | -0.63 | 1.062 | 28.0 | 0.886 | 1.185 | 147.7 | 184.5 | --- | 2.234 | 6.62 | 0.269 | 59.2 | 284.0 | 3.0 | 0.502 |
| 4-2200 | 4-2460 | 1.007 | 222.4 | -17.3 | -1.69 | 1.074 | 31.2 | 0.860 | 1.220 | 143.0 | 186.1 | --- | 2.270 | 5.80 | 0.304 | 57.8 | 285.8 | 3.1 | 0.486 |
| 4-2200 | 4-2480 | 0.966 | 224.5 | -18.6 | -2.52 | 1.085 | 34.1 | 0.835 | 1.258 | 138.4 | 187.7 | --- | 2.308 | 5.23 | 0.333 | 57.1 | 288.1 | 3.1 | 0.472 |
| 4-2200 | 4-2500 | 0.929 | 226.6 | -19.8 | -3.20 | 1.096 | 36.9 | 0.810 | 1.296 | 133.8 | 189.3 | --- | 2.347 | 4.81 | 0.358 | 56.9 | 290.7 | 3.1 | 0.459 |
| 4-2200 | 4-2520 | 0.893 | 228.6 | -21.1 | -3.78 | 1.106 | 39.5 | 0.787 | 1.335 | 129.3 | 190.8 | --- | 2.386 | 4.51 | 0.380 | 56.9 | 293.5 | 3.2 | 0.448 |
| 4-2200 | 4-2540 | 0.859 | 230.6 | -22.4 | -4.29 | 1.116 | 41.9 | 0.765 | 1.375 | 124.9 | 192.3 | --- | 2.426 | 4.29 | 0.398 | 57.2 | 296.6 | 3.3 | 0.437 |
| 4-2200 | 4-2560 | 0.826 | 232.6 | -23.6 | -4.74 | 1.125 | 44.2 | 0.744 | 1.414 | 120.5 | 193.8 | --- | 2.465 | 4.14 | 0.414 | 57.5 | 299.9 | 3.4 | 0.428 |
| 4-2200 | 4-2580 | 0.795 | 234.5 | -24.9 | -5.17 | 1.133 | 46.4 | 0.724 | 1.452 | 116.1 | 195.2 | --- | 2.504 | 4.04 | 0.428 | 57.8 | 303.3 | 3.5 | 0.418 |
| 4-2200 | 4-2600 | 0.765 | 236.4 | -26.2 | -5.57 | 1.141 | 48.4 | 0.705 | 1.491 | 111.8 | 196.5 | --- | 2.542 | 3.98 | 0.440 | 58.2 | 306.8 | 3.6 | 0.409 |
| 4-2200 | 4-2620 | 0.737 | 238.4 | -27.6 | -5.96 | 1.148 | 50.4 | 0.688 | 1.528 | 107.5 | 197.8 | --- | 2.580 | 3.96 | 0.450 | 58.6 | 310.4 | 3.8 | 0.401 |
| 4-2200 | 4-2640 | 0.709 | 240.3 | -29.0 | -6.34 | 1.155 | 52.3 | 0.672 | 1.565 | 103.2 | 199.0 | --- | 2.618 | 3.98 | 0.459 | 59.0 | 314.1 | 4.0 | 0.392 |
| 4-2200 | 4-2660 | 0.683 | 242.3 | -30.4 | -6.72 | 1.161 | 54.1 | 0.658 | 1.602 | 99.1 | 200.2 | --- | 2.655 | 4.04 | 0.467 | 59.3 | 317.9 | 4.2 | 0.385 |
| 4-2200 | 4-2680 | 0.658 | 244.2 | -31.9 | -7.11 | 1.167 | 55.8 | 0.644 | 1.637 | 94.9 | 201.4 | --- | 2.691 | 4.13 | 0.474 | 59.6 | 321.7 | 4.5 | 0.377 |
| 4-2200 | 4-2700 | 0.634 | 246.2 | -33.6 | -7.51 | 1.172 | 57.5 | 0.631 | 1.672 | 90.8 | 202.5 | --- | 2.727 | 4.27 | 0.480 | 59.9 | 325.5 | 4.8 | 0.370 |
| 4-2200 | 4-2720 | 0.612 | 248.2 | -35.3 | -7.94 | 1.177 | 59.1 | 0.620 | 1.705 | 86.8 | 203.6 | --- | 2.762 | 4.44 | 0.486 | 60.1 | 329.4 | 5.2 | 0.363 |
| 4-2200 | 4-2740 | 0.590 | 250.2 | -37.1 | -8.40 | 1.182 | 60.7 | 0.610 | 1.738 | 82.8 | 204.6 | --- | 2.797 | 4.67 | 0.491 | 60.3 | 333.3 | 5.6 | 0.357 |
| 4-2200 | 4-2760 | 0.571 | 252.3 | -39.1 | -8.91 | 1.186 | 62.2 | 0.600 | 1.769 | 78.8 | 205.7 | --- | 2.831 | 4.95 | 0.496 | 60.5 | 337.2 | 6.1 | 0.351 |
| 4-2200 | 4-2780 | 0.552 | 254.4 | -41.3 | -9.48 | 1.190 | 63.7 | 0.592 | 1.800 | 74.9 | 206.7 | --- | 2.865 | 5.32 | 0.500 | 60.6 | 341.2 | 6.7 | 0.346 |
| 4-2200 | 4-2800 | 0.536 | 256.5 | -43.8 | -10.14 | 1.194 | 65.1 | 0.584 | 1.830 | 71.1 | 207.7 | --- | 2.898 | 5.77 | 0.505 | 60.7 | 345.2 | 7.5 | 0.341 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2460 | 4-2660 | 0.799 | 319.0 | 6.6 | 15.47 | 1.317 | 123.7 | 0.812 | 3.437 | 283.1 | 488.6 | 0.648 | --- | -11.29 | 0.743 | 142.1 | 77.8 | -9.0 | 0.572 |
| 4-2460 | 4-2680 | 0.728 | 318.8 | 5.4 | 13.43 | 1.279 | 121.6 | 0.741 | 2.565 | 283.5 | 494.2 | 0.865 | --- | -9.50 | 0.668 | 137.7 | 79.5 | -8.8 | 0.485 |
| 4-2460 | 4-2700 | 0.675 | 318.6 | 4.5 | 11.96 | 1.251 | 119.8 | 0.687 | 2.178 | 283.8 | 499.6 | 0.881 | --- | -8.27 | 0.608 | 133.0 | 80.5 | -8.9 | 0.414 |
| 4-2460 | 4-2720 | 0.635 | 318.6 | 3.6 | 10.84 | 1.231 | 118.5 | 0.647 | 1.966 | 284.0 | 505.0 | 0.694 | --- | -7.38 | 0.561 | 128.3 | 80.7 | -9.1 | 0.357 |
| 4-2460 | 4-2740 | 0.605 | 318.6 | 2.8 | 9.93 | 1.217 | 117.5 | 0.618 | 1.839 | 284.1 | 510.1 | 0.703 | --- | -6.73 | 0.522 | 123.5 | 80.1 | -9.5 | 0.310 |
| 4-2460 | 4-2760 | 0.584 | 318.7 | 2.0 | 9.18 | 1.206 | 116.8 | 0.597 | 1.757 | 284.1 | 515.1 | 0.709 | --- | -6.23 | 0.492 | 118.7 | 78.5 | -9.9 | 0.273 |
| 4-2460 | 4-2780 | 0.569 | 318.9 | 1.2 | 8.54 | 1.199 | 116.4 | 0.582 | 1.703 | 283.9 | 519.8 | 0.712 | --- | -5.84 | 0.468 | 113.9 | 76.0 | -10.3 | 0.244 |
| 4-2460 | 4-2800 | 0.560 | 319.3 | 0.3 | 7.97 | 1.194 | 116.1 | 0.573 | 1.667 | 283.6 | 524.3 | 0.713 | --- | -5.54 | 0.449 | 109.1 | 72.7 | -10.6 | 0.222 |
| 4-2460 | 4-2820 | 0.556 | 319.7 | -0.5 | 7.46 | 1.190 | 116.1 | 0.568 | 1.644 | 283.0 | 528.5 | 0.710 | --- | -5.31 | 0.434 | 104.4 | 68.7 | -10.8 | 0.207 |
| 4-2460 | 4-2840 | 0.556 | 320.3 | -1.3 | 6.99 | 1.188 | 116.3 | 0.567 | 1.629 | 282.1 | 532.4 | 0.706 | --- | -5.14 | 0.423 | 99.7 | 64.4 | -10.8 | 0.199 |
| 4-2460 | 4-2860 | 0.560 | 321.0 | -2.1 | 6.55 | 1.186 | 116.7 | 0.569 | 1.621 | 281.1 | 536.0 | 0.699 | --- | -5.01 | 0.415 | 95.2 | 60.3 | -10.6 | 0.196 |
| 4-2460 | 4-2880 | 0.567 | 321.9 | -2.9 | 6.14 | 1.186 | 117.3 | 0.574 | 1.617 | 279.8 | 539.4 | 0.689 | --- | -4.92 | 0.409 | 90.8 | 56.7 | -10.2 | 0.198 |
| 4-2460 | 4-2900 | 0.578 | 322.8 | -3.7 | 5.74 | 1.186 | 118.0 | 0.581 | 1.617 | 278.3 | 542.5 | 0.677 | 2.556 | -4.88 | 0.406 | 86.5 | 54.0 | -9.7 | 0.204 |
| 4-2460 | 4-2920 | 0.592 | 323.9 | -4.4 | 5.35 | 1.186 | 118.8 | 0.591 | 1.619 | 276.5 | 545.4 | 0.663 | 2.576 | -4.84 | 0.405 | 82.4 | 52.3 | -9.1 | 0.214 |
| 4-2460 | 4-2940 | 0.609 | 325.1 | -5.0 | 4.96 | 1.187 | 119.8 | 0.602 | 1.624 | 274.5 | 548.0 | 0.646 | 2.602 | -4.84 | 0.405 | 78.3 | 51.4 | -8.5 | 0.225 |
| 4-2460 | 4-2960 | 0.628 | 326.4 | -5.6 | 4.57 | 1.188 | 121.0 | 0.616 | 1.631 | 272.3 | 550.3 | 0.627 | 2.635 | -4.88 | 0.407 | 74.4 | 51.4 | -8.0 | 0.239 |
| 4-2460 | 4-2980 | 0.651 | 327.8 | -6.2 | 4.17 | 1.189 | 122.3 | 0.631 | 1.639 | 269.8 | 552.4 | 0.605 | 2.673 | -4.95 | 0.410 | 70.6 | 52.2 | -7.5 | 0.255 |
| 4-2460 | 4-3000 | 0.677 | 329.3 | -6.6 | 3.76 | 1.191 | 123.8 | 0.648 | 1.648 | 267.1 | 554.2 | 0.580 | 2.717 | -5.06 | 0.414 | 66.8 | 53.6 | -7.1 | 0.273 |
| 4-2460 | 4-3020 | 0.707 | 330.9 | -7.0 | 3.33 | 1.192 | 125.4 | 0.667 | 1.659 | 264.2 | 555.8 | 0.553 | 2.765 | -5.20 | 0.418 | 63.1 | 55.6 | -6.7 | 0.292 |
| 4-2460 | 4-3040 | 0.739 | 332.6 | -7.3 | 2.87 | 1.194 | 127.3 | 0.687 | 1.670 | 260.9 | 557.1 | 0.522 | 2.818 | -5.39 | 0.424 | 59.5 | 58.0 | -6.3 | 0.312 |
| 4-2460 | 4-3060 | 0.776 | 334.4 | -7.6 | 2.37 | 1.196 | 129.3 | 0.710 | 1.682 | 257.4 | 558.1 | 0.488 | 2.875 | -5.63 | 0.431 | 55.8 | 61.0 | -6.0 | 0.334 |
| 4-2460 | 4-3080 | 0.816 | 336.3 | -7.7 | 1.81 | 1.198 | 131.6 | 0.733 | 1.695 | 253.6 | 558.9 | 0.452 | 2.938 | -5.93 | 0.438 | 52.2 | 64.3 | -5.7 | 0.358 |
| 4-2460 | 4-3100 | 0.860 | 338.4 | -7.8 | 1.19 | 1.200 | 134.1 | 0.759 | 1.708 | 249.4 | 559.3 | 0.412 | 3.004 | -6.31 | 0.446 | 48.5 | 68.0 | -5.5 | 0.384 |
| 4-2460 | 4-3120 | 0.909 | 340.5 | -7.8 | 0.48 | 1.202 | 136.9 | 0.786 | 1.722 | 244.9 | 559.5 | 0.369 | 3.075 | -6.79 | 0.454 | 44.7 | 72.0 | -5.3 | 0.412 |
| 4-2460 | 4-3140 | 0.962 | 342.8 | -7.6 | -0.37 | 1.204 | 139.9 | 0.814 | 1.737 | 240.1 | 559.2 | 0.323 | 3.151 | -7.41 | 0.463 | 40.8 | 76.4 | -5.1 | 0.443 |
| 4-2460 | 4-3160 | 1.021 | 345.3 | -7.4 | -1.40 | 1.206 | 143.3 | 0.843 | 1.752 | 234.8 | 558.6 | 0.275 | 3.229 | -8.22 | 0.472 | 36.8 | 81.1 | -4.9 | 0.476 |
| 4-2470 | 4-2670 | 0.823 | 325.1 | 18.2 | 21.60 | 1.321 | 121.8 | 0.813 | 3.654 | 287.8 | 486.3 | 0.682 | --- | -18.16 | 0.752 | 141.7 | 80.5 | -14.3 | 0.587 |
| 4-2470 | 4-2690 | 0.732 | 324.5 | 14.8 | 17.50 | 1.283 | 119.6 | 0.738 | 2.679 | 288.3 | 491.9 | 0.702 | --- | -14.32 | 0.678 | 137.3 | 82.8 | -13.3 | 0.495 |
| 4-2470 | 4-2710 | 0.668 | 324.3 | 12.5 | 14.82 | 1.256 | 117.9 | 0.682 | 2.255 | 288.8 | 497.4 | 0.718 | --- | -11.92 | 0.618 | 132.8 | 84.3 | -12.8 | 0.422 |
| 4-2470 | 4-2730 | 0.621 | 324.1 | 10.6 | 12.92 | 1.235 | 116.5 | 0.639 | 2.026 | 289.2 | 502.8 | 0.731 | --- | -10.29 | 0.571 | 128.2 | 84.9 | -12.8 | 0.363 |
| 4-2470 | 4-2750 | 0.586 | 324.1 | 9.0 | 11.48 | 1.221 | 115.5 | 0.608 | 1.888 | 289.4 | 508.0 | 0.741 | --- | -9.13 | 0.533 | 123.8 | 84.7 | -12.9 | 0.315 |
| 4-2470 | 4-2770 | 0.561 | 324.3 | 7.6 | 10.34 | 1.210 | 114.7 | 0.585 | 1.799 | 289.6 | 513.1 | 0.747 | --- | -8.26 | 0.503 | 118.9 | 83.6 | -13.2 | 0.276 |
| 4-2470 | 4-2790 | 0.543 | 324.5 | 6.3 | 9.40 | 1.202 | 114.2 | 0.568 | 1.741 | 289.6 | 517.9 | 0.751 | --- | -7.61 | 0.479 | 114.3 | 81.5 | -13.6 | 0.245 |
| 4-2470 | 4-2810 | 0.530 | 324.9 | 5.0 | 8.60 | 1.197 | 114.0 | 0.558 | 1.702 | 289.3 | 522.5 | 0.753 | --- | -7.10 | 0.459 | 109.7 | 78.6 | -13.9 | 0.222 |
| 4-2470 | 4-2830 | 0.523 | 325.4 | 3.8 | 7.90 | 1.193 | 113.9 | 0.551 | 1.676 | 288.9 | 526.8 | 0.752 | --- | -6.71 | 0.445 | 105.2 | 74.9 | -14.1 | 0.205 |
| 4-2470 | 4-2850 | 0.521 | 326.0 | 2.6 | 7.28 | 1.190 | 114.0 | 0.548 | 1.659 | 288.2 | 530.8 | 0.749 | --- | -6.40 | 0.434 | 100.8 | 70.8 | -14.1 | 0.194 |
| 4-2470 | 4-2870 | 0.522 | 326.7 | 1.5 | 6.71 | 1.189 | 114.2 | 0.549 | 1.649 | 287.3 | 534.6 | 0.744 | --- | -6.18 | 0.425 | 96.5 | 66.7 | -13.9 | 0.189 |
| 4-2470 | 4-2890 | 0.527 | 327.6 | 0.5 | 6.18 | 1.188 | 114.7 | 0.552 | 1.643 | 286.2 | 538.1 | 0.736 | --- | -5.97 | 0.420 | 92.3 | 62.9 | -13.4 | 0.189 |
| 4-2470 | 4-2910 | 0.534 | 328.6 | -0.5 | 5.69 | 1.188 | 115.2 | 0.557 | 1.642 | 284.8 | 541.4 | 0.727 | 2.557 | -5.84 | 0.416 | 88.3 | 59.9 | -12.7 | 0.192 |
| 4-2470 | 4-2930 | 0.545 | 329.7 | -1.4 | 5.22 | 1.188 | 116.0 | 0.565 | 1.643 | 283.3 | 544.4 | 0.715 | 2.572 | -5.75 | 0.415 | 84.4 | 57.7 | -12.0 | 0.199 |
| 4-2470 | 4-2950 | 0.559 | 330.9 | -2.2 | 4.76 | 1.189 | 116.8 | 0.575 | 1.647 | 281.5 | 547.1 | 0.701 | 2.594 | -5.69 | 0.415 | 80.6 | 56.4 | -11.2 | 0.209 |
| 4-2470 | 4-2970 | 0.575 | 332.2 | -3.0 | 4.30 | 1.189 | 117.8 | 0.586 | 1.653 | 279.4 | 549.7 | 0.684 | 2.621 | -5.68 | 0.416 | 76.9 | 55.9 | -10.5 | 0.221 |
| 4-2470 | 4-2990 | 0.595 | 333.6 | -3.7 | 3.85 | 1.191 | 118.9 | 0.599 | 1.660 | 277.2 | 551.9 | 0.666 | 2.655 | -5.70 | 0.419 | 73.3 | 56.3 | -9.8 | 0.234 |
| 4-2470 | 4-3010 | 0.617 | 335.1 | -4.3 | 3.39 | 1.192 | 120.2 | 0.614 | 1.669 | 274.7 | 554.0 | 0.644 | 2.693 | -5.75 | 0.422 | 69.8 | 57.3 | -9.2 | 0.250 |
| 4-2470 | 4-3030 | 0.642 | 336.7 | -4.8 | 2.92 | 1.193 | 121.6 | 0.630 | 1.678 | 272.0 | 555.8 | 0.621 | 2.735 | -5.85 | 0.427 | 66.4 | 58.9 | -8.6 | 0.266 |
| 4-2470 | 4-3050 | 0.670 | 338.4 | -5.2 | 2.43 | 1.195 | 123.2 | 0.648 | 1.688 | 269.0 | 557.4 | 0.594 | 2.783 | -5.98 | 0.433 | 63.1 | 61.0 | -8.1 | 0.284 |
| 4-2470 | 4-3070 | 0.701 | 340.1 | -5.5 | 1.91 | 1.196 | 125.0 | 0.668 | 1.699 | 265.8 | 558.7 | 0.565 | 2.834 | -6.17 | 0.439 | 59.7 | 63.6 | -7.7 | 0.304 |
| 4-2470 | 4-3090 | 0.736 | 342.0 | -5.7 | 1.35 | 1.198 | 127.0 | 0.689 | 1.711 | 262.3 | 559.8 | 0.532 | 2.891 | -6.41 | 0.445 | 56.4 | 66.7 | -7.3 | 0.325 |
| 4-2470 | 4-3110 | 0.775 | 343.9 | -5.9 | 0.74 | 1.200 | 129.1 | 0.712 | 1.724 | 258.5 | 560.6 | 0.496 | 2.951 | -6.71 | 0.453 | 53.0 | 70.1 | -7.0 | 0.348 |
| 4-2470 | 4-3130 | 0.818 | 346.0 | -5.9 | 0.06 | 1.202 | 131.5 | 0.737 | 1.737 | 254.4 | 561.2 | 0.457 | 3.017 | -7.10 | 0.461 | 49.6 | 73.8 | -6.7 | 0.373 |
| 4-2470 | 4-3150 | 0.865 | 348.2 | -5.9 | -0.71 | 1.204 | 134.2 | 0.763 | 1.750 | 249.9 | 561.4 | 0.414 | 3.088 | -7.58 | 0.469 | 46.1 | 77.9 | -6.4 | 0.400 |
| 4-2470 | 4-3170 | 0.917 | 350.5 | -5.7 | -1.62 | 1.205 | 137.1 | 0.791 | 1.765 | 245.1 | 561.2 | 0.368 | 3.161 | -8.21 | 0.478 | 42.5 | 82.3 | -6.2 | 0.430 |
| 4-2480 | 4-2680 | 0.944 | 333.2 | 36.8 | 34.74 | 1.325 | 120.0 | 0.815 | 3.856 | 292.2 | 484.2 | 0.715 | --- | -32.05 | 0.759 | 141.2 | 79.9 | -23.4 | 0.637 |
| 4-2480 | 4-2700 | 0.781 | 330.2 | 29.0 | 25.05 | 1.287 | 117.7 | 0.735 | 2.783 | 293.1 | 489.7 | 0.737 | --- | -22.64 | 0.685 | 136.9 | 84.5 | -20.3 | 0.521 |
| 4-2480 | 4-2720 | 0.684 | 329.3 | 23.8 | 19.65 | 1.259 | 115.9 | 0.676 | 2.325 | 293.8 | 495.3 | 0.754 | --- | -17.53 | 0.627 | 132.5 | 87.0 | -18.5 | 0.438 |
| 4-2480 | 4-2740 | 0.620 | 329.0 | 20.1 | 16.21 | 1.239 | 114.5 | 0.631 | 2.080 | 294.4 | 500.8 | 0.767 | --- | -14.39 | 0.580 | 128.0 | 88.3 | -17.7 | 0.374 |
| 4-2480 | 4-2760 | 0.575 | 328.9 | 17.1 | 13.82 | 1.224 | 113.4 | 0.598 | 1.933 | 294.9 | 506.1 | 0.777 | --- | -12.30 | 0.542 | 123.5 | 88.6 | -17.3 | 0.323 |
| 4-2480 | 4-2780 | 0.543 | 329.1 | 14.7 | 12.04 | 1.213 | 112.6 | 0.573 | 1.839 | 295.2 | 511.2 | 0.785 | --- | -10.81 | 0.512 | 119.0 | 88.0 | -17.3 | 0.282 |
| 4-2480 | 4-2800 | 0.520 | 329.4 | 12.5 | 10.65 | 1.205 | 112.1 | 0.556 | 1.777 | 295.3 | 516.1 | 0.790 | --- | -9.72 | 0.488 | 114.6 | 86.4 | -17.5 | 0.250 |
| 4-2480 | 4-2820 | 0.504 | 329.8 | 10.6 | 9.51 | 1.199 | 111.8 | 0.543 | 1.734 | 295.2 | 520.8 | 0.792 | --- | -8.89 | 0.469 | 110.1 | 83.9 | -17.7 | 0.224 |
| 4-2480 | 4-2840 | 0.493 | 330.4 | 8.8 | 8.56 | 1.195 | 111.6 | 0.536 | 1.706 | 294.9 | 525.2 | 0.792 | --- | -8.25 | 0.454 | 105.8 | 80.6 | -17.8 | 0.205 |
| 4-2480 | 4-2860 | 0.488 | 331.1 | 7.2 | 7.73 | 1.193 | 111.7 | 0.532 | 1.687 | 294.4 | 529.4 | 0.790 | --- | -7.75 | 0.443 | 101.6 | 76.8 | -17.7 | 0.193 |
| 4-2480 | 4-2880 | 0.486 | 331.9 | 5.7 | 7.00 | 1.191 | 111.8 | 0.531 | 1.675 | 293.6 | 533.3 | 0.786 | --- | -7.36 | 0.435 | 97.5 | 72.8 | -17.4 | 0.185 |
| 4-2480 | 4-2900 | 0.488 | 332.9 | 4.3 | 6.34 | 1.190 | 112.2 | 0.532 | 1.669 | 292.6 | 536.9 | 0.781 | --- | -7.05 | 0.429 | 93.5 | 68.9 | -16.8 | 0.182 |
| 4-2480 | 4-2920 | 0.493 | 333.9 | 3.0 | 5.73 | 1.189 | 112.7 | 0.536 | 1.666 | 291.4 | 540.3 | 0.773 | 2.560 | -6.80 | 0.426 | 89.7 | 65.6 | -15.9 | 0.184 |
| 4-2480 | 4-2940 | 0.501 | 335.1 | 1.8 | 5.17 | 1.189 | 113.3 | 0.542 | 1.667 | 290.0 | 543.4 | 0.763 | 2.570 | -6.62 | 0.424 | 86.0 | 63.0 | -15.0 | 0.188 |
| 4-2480 | 4-2960 | 0.512 | 336.4 | 0.7 | 4.63 | 1.190 | 114.0 | 0.550 | 1.670 | 288.4 | 546.3 | 0.751 | 2.588 | -6.49 | 0.424 | 82.4 | 61.3 | -14.0 | 0.196 |
| 4-2480 | 4-2980 | 0.526 | 337.7 | -0.2 | 4.11 | 1.191 | 114.8 | 0.559 | 1.674 | 286.5 | 549.0 | 0.738 | 2.611 | -6.40 | 0.425 | 78.9 | 60.5 | -13.1 | 0.205 |
| 4-2480 | 4-3000 | 0.542 | 339.2 | -1.1 | 3.60 | 1.192 | 115.8 | 0.570 | 1.681 | 284.4 | 551.5 | 0.722 | 2.640 | -6.35 | 0.428 | 75.6 | 60.5 | -12.2 | 0.217 |
| 4-2480 | 4-3020 | 0.561 | 340.7 | -1.8 | 3.09 | 1.193 | 116.9 | 0.583 | 1.688 | 282.1 | 553.7 | 0.704 | 2.673 | -6.35 | 0.431 | 72.3 | 61.1 | -11.4 | 0.230 |
| 4-2480 | 4-3040 | 0.582 | 342.3 | -2.5 | 2.59 | 1.194 | 118.2 | 0.597 | 1.697 | 279.6 | 555.7 | 0.684 | 2.711 | -6.38 | 0.435 | 69.1 | 62.4 | -10.6 | 0.245 |
| 4-2480 | 4-3060 | 0.607 | 344.0 | -3.0 | 2.07 | 1.195 | 119.5 | 0.613 | 1.707 | 276.9 | 557.5 | 0.661 | 2.753 | -6.45 | 0.441 | 66.0 | 64.2 | -10.0 | 0.261 |
| 4-2480 | 4-3080 | 0.634 | 345.7 | -3.4 | 1.53 | 1.197 | 121.1 | 0.630 | 1.717 | 273.9 | 559.1 | 0.635 | 2.799 | -6.57 | 0.447 | 63.0 | 66.5 | -9.4 | 0.278 |
| 4-2480 | 4-3100 | 0.664 | 347.6 | -3.7 | 0.97 | 1.198 | 122.8 | 0.649 | 1.728 | 270.7 | 560.5 | 0.607 | 2.850 | -6.74 | 0.453 | 59.9 | 69.3 | -8.9 | 0.297 |
| 4-2480 | 4-3120 | 0.698 | 349.5 | -4.0 | 0.37 | 1.200 | 124.7 | 0.669 | 1.740 | 267.2 | 561.6 | 0.575 | 2.904 | -6.97 | 0.460 | 56.9 | 72.4 | -8.5 | 0.317 |
| 4-2480 | 4-3140 | 0.735 | 351.5 | -4.1 | -0.28 | 1.202 | 126.7 | 0.692 | 1.752 | 263.4 | 562.5 | 0.540 | 2.964 | -7.26 | 0.468 | 53.8 | 75.9 | -8.1 | 0.340 |
| 4-2490 | 4-3160 | 0.777 | 353.6 | -4.1 | -1.00 | 1.203 | 129.1 | 0.716 | 1.765 | 259.3 | 563.0 | 0.501 | 3.028 | -7.64 | 0.476 | 50.6 | 79.7 | -7.7 | 0.364 |
| 4-2480 | 4-3180 | 0.823 | 355.8 | -4.0 | -1.80 | 1.205 | 131.6 | 0.742 | 1.778 | 254.8 | 563.3 | 0.459 | 3.096 | -8.12 | 0.485 | 47.4 | 83.9 | -7.4 | 0.390 |
| 4-2490 | 4-2710 | 0.982 | 340.9 | 50.8 | 42.25 | 1.289 | 115.9 | 0.732 | 2.872 | 297.4 | 487.9 | 0.768 | --- | -40.62 | 0.691 | 136.4 | 80.3 | -30.7 | 0.607 |
| 4-2490 | 4-2730 | 0.770 | 334.7 | 40.7 | 29.10 | 1.261 | 114.0 | 0.670 | 2.387 | 298.7 | 493.5 | 0.788 | --- | -27.77 | 0.633 | 132.1 | 87.0 | -27.1 | 0.481 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2490 | 4-2750 | 0.655 | 333.1 | 33.5 | 22.01 | 1.241 | 112.5 | 0.623 | 2.129 | 299.6 | 499.0 | 0.802 | --- | -20.99 | 0.587 | 127.7 | 90.1 | -24.6 | 0.399 |
| 4-2490 | 4-2770 | 0.584 | 332.8 | 28.1 | 17.65 | 1.226 | 111.4 | 0.588 | 1.974 | 300.3 | 504.4 | 0.813 | --- | -16.93 | 0.549 | 123.3 | 91.5 | -23.2 | 0.339 |
| 4-2490 | 4-2790 | 0.537 | 332.9 | 23.9 | 14.69 | 1.215 | 110.5 | 0.562 | 1.875 | 300.8 | 509.6 | 0.821 | --- | -14.27 | 0.520 | 118.9 | 91.5 | -22.5 | 0.293 |
| 4-2490 | 4-2810 | 0.504 | 333.3 | 20.4 | 12.53 | 1.207 | 110.0 | 0.543 | 1.809 | 301.1 | 514.6 | 0.826 | --- | -12.42 | 0.496 | 114.6 | 90.5 | -22.1 | 0.258 |
| 4-2490 | 4-2830 | 0.482 | 333.9 | 17.5 | 10.86 | 1.201 | 109.6 | 0.530 | 1.764 | 301.2 | 519.4 | 0.829 | --- | -11.07 | 0.477 | 110.4 | 88.6 | -22.0 | 0.230 |
| 4-2490 | 4-2850 | 0.467 | 334.6 | 14.9 | 9.52 | 1.197 | 109.4 | 0.521 | 1.734 | 301.0 | 523.9 | 0.830 | --- | -10.05 | 0.463 | 106.2 | 85.7 | -21.8 | 0.208 |
| 4-2490 | 4-2870 | 0.457 | 335.5 | 12.5 | 8.41 | 1.194 | 109.4 | 0.516 | 1.714 | 300.6 | 528.1 | 0.829 | --- | -9.27 | 0.452 | 102.1 | 82.2 | -21.6 | 0.193 |
| 4-2490 | 4-2890 | 0.452 | 336.4 | 10.4 | 7.46 | 1.192 | 109.5 | 0.514 | 1.700 | 300.0 | 532.1 | 0.827 | --- | -8.65 | 0.443 | 98.2 | 78.4 | -21.1 | 0.183 |
| 4-2490 | 4-2910 | 0.452 | 337.5 | 8.5 | 6.63 | 1.191 | 109.8 | 0.514 | 1.693 | 299.2 | 535.8 | 0.822 | --- | -8.17 | 0.438 | 94.4 | 74.5 | -20.3 | 0.178 |
| 4-2490 | 4-2930 | 0.454 | 338.7 | 6.8 | 5.88 | 1.191 | 110.1 | 0.517 | 1.689 | 298.1 | 539.3 | 0.816 | --- | -7.78 | 0.434 | 90.7 | 71.0 | -19.3 | 0.177 |
| 4-2490 | 4-2950 | 0.460 | 340.0 | 5.3 | 5.20 | 1.191 | 110.6 | 0.522 | 1.689 | 296.8 | 542.6 | 0.808 | 2.570 | -7.40 | 0.432 | 87.2 | 68.2 | -18.2 | 0.180 |
| 4-2490 | 4-2970 | 0.468 | 341.4 | 3.9 | 4.57 | 1.191 | 111.3 | 0.528 | 1.691 | 295.3 | 545.6 | 0.799 | 2.584 | -7.24 | 0.432 | 83.8 | 66.2 | -17.0 | 0.185 |
| 4-2490 | 4-2990 | 0.479 | 342.8 | 2.7 | 3.98 | 1.191 | 112.0 | 0.536 | 1.695 | 293.6 | 548.4 | 0.787 | 2.603 | -7.06 | 0.433 | 80.6 | 65.0 | -15.8 | 0.193 |
| 4-2490 | 4-3010 | 0.492 | 344.4 | 1.6 | 3.41 | 1.192 | 112.9 | 0.545 | 1.701 | 291.7 | 551.0 | 0.774 | 2.628 | -6.93 | 0.436 | 77.4 | 64.7 | -14.7 | 0.203 |
| 4-2490 | 4-3030 | 0.509 | 346.0 | 0.6 | 2.85 | 1.193 | 113.8 | 0.556 | 1.708 | 289.5 | 553.4 | 0.759 | 2.657 | -6.85 | 0.439 | 74.3 | 65.0 | -13.6 | 0.214 |
| 4-2490 | 4-3050 | 0.527 | 347.6 | -0.2 | 2.31 | 1.194 | 114.9 | 0.568 | 1.716 | 287.2 | 555.6 | 0.741 | 2.690 | -6.82 | 0.443 | 71.4 | 66.0 | -12.7 | 0.227 |
| 4-2490 | 4-3070 | 0.548 | 349.4 | -0.8 | 1.76 | 1.196 | 116.1 | 0.582 | 1.725 | 284.6 | 557.6 | 0.722 | 2.728 | -6.82 | 0.448 | 68.5 | 67.5 | -11.9 | 0.241 |
| 4-2490 | 4-3090 | 0.572 | 351.2 | -1.4 | 1.21 | 1.197 | 117.5 | 0.597 | 1.735 | 281.9 | 559.4 | 0.700 | 2.769 | -6.87 | 0.454 | 65.6 | 69.6 | -11.1 | 0.256 |
| 4-2490 | 4-3110 | 0.598 | 353.0 | -1.8 | 0.64 | 1.198 | 119.0 | 0.613 | 1.745 | 278.8 | 561.0 | 0.675 | 2.815 | -6.97 | 0.461 | 62.8 | 72.1 | -10.5 | 0.273 |
| 4-2490 | 4-3130 | 0.628 | 354.9 | -2.1 | 0.05 | 1.200 | 120.6 | 0.631 | 1.756 | 275.6 | 562.4 | 0.648 | 2.864 | -7.12 | 0.468 | 60.0 | 75.0 | -9.9 | 0.291 |
| 4-2490 | 4-3150 | 0.661 | 356.9 | -2.3 | -0.57 | 1.201 | 122.4 | 0.651 | 1.767 | 272.1 | 563.5 | 0.617 | 2.918 | -7.32 | 0.475 | 57.2 | 78.2 | -9.4 | 0.311 |
| 4-2490 | 4-3170 | 0.697 | 359.0 | -2.4 | -1.25 | 1.203 | 124.5 | 0.672 | 1.779 | 268.2 | 564.4 | 0.583 | 2.976 | -7.59 | 0.483 | 54.4 | 81.8 | -9.0 | 0.332 |
| 4-2490 | 4-3190 | 0.738 | 1.2 | -2.3 | -1.99 | 1.205 | 126.7 | 0.696 | 1.792 | 264.1 | 565.0 | 0.545 | 3.038 | -7.95 | 0.491 | 51.5 | 85.7 | -8.6 | 0.356 |
| 4-2500 | 4-2740 | 1.085 | 353.5 | 64.9 | 52.13 | 1.262 | 112.3 | 0.665 | 2.438 | 302.9 | 492.0 | 0.816 | --- | -51.58 | 0.638 | 131.7 | 77.7 | -36.8 | 0.622 |
| 4-2500 | 4-2760 | 0.795 | 338.7 | 53.1 | 34.14 | 1.242 | 110.6 | 0.616 | 2.170 | 304.7 | 497.4 | 0.834 | --- | -33.89 | 0.592 | 127.3 | 87.6 | -34.2 | 0.467 |
| 4-2500 | 4-2780 | 0.645 | 335.8 | 43.7 | 24.74 | 1.227 | 109.3 | 0.579 | 2.010 | 305.8 | 502.9 | 0.846 | --- | -24.81 | 0.555 | 123.0 | 92.0 | -31.3 | 0.377 |
| 4-2500 | 4-2800 | 0.559 | 335.5 | 36.5 | 19.19 | 1.216 | 108.4 | 0.552 | 1.907 | 306.6 | 508.2 | 0.855 | --- | -19.56 | 0.526 | 118.7 | 93.6 | -29.2 | 0.316 |
| 4-2500 | 4-2820 | 0.505 | 336.0 | 30.9 | 15.54 | 1.208 | 107.8 | 0.532 | 1.838 | 307.1 | 513.3 | 0.861 | --- | -16.22 | 0.503 | 114.5 | 93.6 | -27.9 | 0.273 |
| 4-2500 | 4-2840 | 0.470 | 336.8 | 26.3 | 12.94 | 1.202 | 107.4 | 0.518 | 1.791 | 307.3 | 518.1 | 0.864 | --- | -13.93 | 0.484 | 110.4 | 92.4 | -27.1 | 0.240 |
| 4-2500 | 4-2860 | 0.447 | 337.7 | 22.3 | 10.98 | 1.198 | 107.2 | 0.508 | 1.759 | 307.3 | 522.7 | 0.866 | --- | -12.29 | 0.470 | 106.3 | 90.1 | -26.5 | 0.215 |
| 4-2500 | 4-2880 | 0.431 | 338.8 | 19.0 | 9.43 | 1.195 | 107.1 | 0.502 | 1.738 | 307.1 | 527.0 | 0.866 | --- | -11.06 | 0.459 | 102.4 | 87.0 | -25.9 | 0.197 |
| 4-2500 | 4-2900 | 0.422 | 340.0 | 16.0 | 8.16 | 1.193 | 107.2 | 0.499 | 1.724 | 306.6 | 531.1 | 0.864 | --- | -10.12 | 0.451 | 98.7 | 83.4 | -25.1 | 0.185 |
| 4-2500 | 4-2920 | 0.418 | 341.3 | 13.4 | 7.09 | 1.192 | 107.4 | 0.498 | 1.715 | 305.9 | 534.9 | 0.861 | --- | -9.38 | 0.445 | 95.0 | 79.6 | -24.1 | 0.177 |
| 4-2500 | 4-2940 | 0.417 | 342.7 | 11.0 | 6.16 | 1.191 | 107.7 | 0.500 | 1.711 | 304.9 | 538.5 | 0.856 | --- | -8.80 | 0.442 | 91.5 | 76.1 | -22.9 | 0.174 |
| 4-2500 | 4-2960 | 0.420 | 344.2 | 9.0 | 5.33 | 1.191 | 108.1 | 0.503 | 1.710 | 303.7 | 541.8 | 0.850 | 2.570 | -8.34 | 0.440 | 88.1 | 73.1 | -21.5 | 0.174 |
| 4-2500 | 4-2980 | 0.426 | 345.8 | 7.2 | 4.59 | 1.191 | 108.7 | 0.508 | 1.711 | 302.3 | 545.0 | 0.842 | 2.581 | -7.97 | 0.440 | 84.9 | 70.9 | -20.0 | 0.178 |
| 4-2500 | 4-3000 | 0.435 | 347.4 | 5.6 | 3.90 | 1.192 | 109.3 | 0.515 | 1.715 | 300.7 | 547.9 | 0.832 | 2.597 | -7.68 | 0.441 | 81.8 | 69.4 | -18.5 | 0.184 |
| 4-2500 | 4-3020 | 0.446 | 349.1 | 4.2 | 3.26 | 1.193 | 110.1 | 0.523 | 1.720 | 298.9 | 550.6 | 0.821 | 2.619 | -7.45 | 0.443 | 78.8 | 68.8 | -17.1 | 0.192 |
| 4-2500 | 4-3040 | 0.460 | 350.9 | 3.1 | 2.65 | 1.194 | 110.9 | 0.532 | 1.726 | 296.9 | 553.1 | 0.809 | 2.644 | -7.29 | 0.447 | 75.9 | 68.8 | -15.9 | 0.201 |
| 4-2500 | 4-3060 | 0.476 | 352.6 | 2.1 | 2.06 | 1.195 | 111.9 | 0.542 | 1.734 | 294.7 | 555.5 | 0.794 | 2.674 | -7.17 | 0.451 | 73.2 | 69.5 | -14.7 | 0.212 |
| 4-2500 | 4-3080 | 0.494 | 354.5 | 1.2 | 1.49 | 1.196 | 113.0 | 0.554 | 1.742 | 292.3 | 557.6 | 0.777 | 2.707 | -7.10 | 0.456 | 70.4 | 70.9 | -13.7 | 0.224 |
| 4-2500 | 4-3100 | 0.515 | 356.4 | 0.5 | 0.91 | 1.197 | 114.1 | 0.567 | 1.752 | 289.7 | 559.6 | 0.759 | 2.744 | -7.07 | 0.462 | 67.8 | 72.7 | -12.8 | 0.238 |
| 4-2500 | 4-3120 | 0.538 | 358.3 | 0.0 | 0.34 | 1.198 | 115.5 | 0.581 | 1.761 | 286.8 | 561.4 | 0.738 | 2.785 | -7.10 | 0.468 | 65.2 | 74.9 | -12.0 | 0.253 |
| 4-2500 | 4-3140 | 0.564 | 0.3 | -0.4 | -0.25 | 1.200 | 116.9 | 0.597 | 1.772 | 283.8 | 563.0 | 0.714 | 2.830 | -7.17 | 0.475 | 62.6 | 77.6 | -11.3 | 0.269 |
| 4-2500 | 4-3160 | 0.593 | 2.3 | -0.7 | -0.85 | 1.201 | 118.5 | 0.614 | 1.783 | 280.5 | 564.3 | 0.687 | 2.878 | -7.29 | 0.482 | 60.1 | 80.7 | -10.7 | 0.286 |
| 4-2500 | 4-3180 | 0.625 | 4.4 | -0.8 | -1.49 | 1.203 | 120.3 | 0.633 | 1.794 | 276.9 | 565.5 | 0.658 | 2.930 | -7.47 | 0.490 | 57.5 | 84.0 | -10.1 | 0.306 |
| 4-2500 | 4-3200 | 0.661 | 6.5 | -0.8 | -2.17 | 1.204 | 122.3 | 0.654 | 1.806 | 273.0 | 566.4 | 0.624 | 2.987 | -7.71 | 0.498 | 54.9 | 87.8 | -9.6 | 0.327 |
| 4-2510 | 4-2710 | 0.809 | 33.5 | -42.4 | -30.76 | 1.327 | 111.4 | 0.798 | 4.212 | 311.4 | 477.5 | 0.850 | --- | 31.18 | 0.767 | 138.3 | 90.8 | 25.5 | 0.614 |
| 4-2510 | 4-2730 | 0.998 | 58.3 | -44.4 | -46.39 | 1.290 | 109.1 | 0.708 | 2.986 | 313.3 | 483.4 | 0.871 | --- | 46.49 | 0.696 | 134.1 | 83.4 | 35.0 | 0.632 |
| 4-2510 | 4-2790 | 0.864 | 342.8 | 66.1 | 40.82 | 1.228 | 107.4 | 0.570 | 2.038 | 311.0 | 501.7 | 0.876 | --- | -41.65 | 0.559 | 122.8 | 85.9 | -40.4 | 0.483 |
| 4-2510 | 4-2810 | 0.657 | 336.9 | 54.3 | 28.07 | 1.217 | 106.4 | 0.542 | 1.933 | 312.3 | 507.1 | 0.886 | --- | -29.21 | 0.530 | 118.4 | 92.4 | -37.8 | 0.372 |
| 4-2510 | 4-2830 | 0.546 | 336.8 | 45.2 | 20.90 | 1.209 | 105.6 | 0.521 | 1.863 | 313.2 | 512.2 | 0.893 | --- | -22.34 | 0.508 | 114.2 | 94.8 | -35.3 | 0.305 |
| 4-2510 | 4-2850 | 0.480 | 337.8 | 37.9 | 16.39 | 1.203 | 105.2 | 0.506 | 1.815 | 313.6 | 517.1 | 0.897 | --- | -18.13 | 0.490 | 110.2 | 94.8 | -33.4 | 0.260 |
| 4-2510 | 4-2870 | 0.439 | 339.2 | 32.0 | 13.27 | 1.199 | 104.9 | 0.495 | 1.782 | 313.8 | 521.8 | 0.899 | --- | -15.32 | 0.476 | 106.3 | 93.4 | -32.0 | 0.228 |
| 4-2510 | 4-2890 | 0.413 | 340.8 | 27.0 | 10.98 | 1.196 | 104.8 | 0.489 | 1.759 | 313.7 | 526.2 | 0.899 | --- | -13.34 | 0.465 | 102.5 | 90.9 | -30.7 | 0.205 |
| 4-2510 | 4-2910 | 0.397 | 342.4 | 22.7 | 9.21 | 1.194 | 104.8 | 0.485 | 1.744 | 313.3 | 530.3 | 0.898 | --- | -11.88 | 0.457 | 98.9 | 87.7 | -29.5 | 0.189 |
| 4-2510 | 4-2930 | 0.388 | 344.1 | 19.0 | 7.78 | 1.192 | 105.0 | 0.484 | 1.735 | 312.7 | 534.2 | 0.896 | --- | -10.78 | 0.452 | 95.4 | 84.1 | -28.1 | 0.179 |
| 4-2510 | 4-2950 | 0.383 | 345.8 | 15.8 | 6.59 | 1.192 | 105.3 | 0.484 | 1.730 | 311.8 | 537.9 | 0.892 | --- | -9.92 | 0.449 | 92.0 | 80.7 | -26.5 | 0.173 |
| 4-2510 | 4-2970 | 0.383 | 347.6 | 13.1 | 5.57 | 1.191 | 105.6 | 0.487 | 1.729 | 310.7 | 541.3 | 0.887 | 2.571 | -9.24 | 0.447 | 88.8 | 77.6 | -24.8 | 0.171 |
| 4-2510 | 4-2990 | 0.387 | 349.5 | 10.7 | 4.68 | 1.192 | 106.1 | 0.491 | 1.730 | 309.4 | 544.5 | 0.881 | 2.579 | -8.70 | 0.447 | 85.7 | 75.2 | -23.0 | 0.172 |
| 4-2510 | 4-3010 | 0.393 | 351.4 | 8.6 | 3.88 | 1.192 | 106.7 | 0.496 | 1.733 | 307.9 | 547.5 | 0.873 | 2.593 | -8.27 | 0.448 | 82.7 | 73.6 | -21.2 | 0.177 |
| 4-2510 | 4-3030 | 0.402 | 353.3 | 6.8 | 3.15 | 1.193 | 107.4 | 0.503 | 1.738 | 306.2 | 550.3 | 0.864 | 2.612 | -7.92 | 0.450 | 79.9 | 72.7 | -19.6 | 0.183 |
| 4-2510 | 4-3050 | 0.414 | 355.2 | 5.4 | 2.47 | 1.194 | 108.1 | 0.511 | 1.744 | 304.3 | 553.0 | 0.853 | 2.634 | -7.65 | 0.454 | 77.2 | 72.5 | -18.0 | 0.191 |
| 4-2510 | 4-3070 | 0.427 | 357.2 | 4.1 | 1.84 | 1.195 | 109.0 | 0.520 | 1.751 | 302.2 | 555.4 | 0.841 | 2.661 | -7.44 | 0.458 | 74.5 | 73.0 | -16.6 | 0.200 |
| 4-2510 | 4-3090 | 0.443 | 359.2 | 3.1 | 1.23 | 1.196 | 110.0 | 0.530 | 1.759 | 299.9 | 557.7 | 0.827 | 2.691 | -7.29 | 0.463 | 72.0 | 74.1 | -15.4 | 0.211 |
| 4-2510 | 4-3110 | 0.462 | 1.3 | 2.2 | 0.63 | 1.197 | 111.0 | 0.541 | 1.768 | 297.4 | 559.8 | 0.811 | 2.724 | -7.19 | 0.469 | 69.5 | 75.7 | -14.3 | 0.223 |
| 4-2510 | 4-3130 | 0.482 | 3.3 | 1.6 | 0.05 | 1.198 | 112.2 | 0.553 | 1.777 | 294.7 | 561.7 | 0.794 | 2.761 | -7.13 | 0.475 | 67.1 | 77.8 | -13.3 | 0.236 |
| 4-2510 | 4-3150 | 0.505 | 5.4 | 1.1 | -0.53 | 1.199 | 113.5 | 0.567 | 1.787 | 291.8 | 563.5 | 0.773 | 2.801 | -7.13 | 0.482 | 64.8 | 80.3 | -12.5 | 0.250 |
| 4-2510 | 4-3170 | 0.531 | 7.5 | 0.7 | -1.13 | 1.201 | 114.9 | 0.582 | 1.798 | 288.7 | 565.1 | 0.751 | 2.845 | -7.17 | 0.489 | 62.4 | 83.2 | -11.7 | 0.266 |
| 4-2510 | 4-3190 | 0.560 | 9.6 | 0.5 | -1.74 | 1.202 | 116.5 | 0.599 | 1.808 | 285.3 | 566.4 | 0.725 | 2.892 | -7.26 | 0.497 | 60.1 | 86.4 | -11.1 | 0.283 |
| 4-2510 | 4-3210 | 0.591 | 11.8 | 0.4 | -2.37 | 1.203 | 118.3 | 0.617 | 1.820 | 281.6 | 567.6 | 0.696 | 2.943 | -7.41 | 0.505 | 57.7 | 90.0 | -10.5 | 0.301 |
| 4-2520 | 4-2700 | 0.672 | 16.4 | -29.0 | -16.52 | 1.375 | 111.2 | 0.912 | 9.825 | 315.4 | 470.1 | 0.886 | --- | 16.48 | 0.853 | 141.3 | 97.5 | 13.7 | 0.641 |
| 4-2520 | 4-2720 | 0.653 | 24.3 | -36.5 | -20.70 | 1.325 | 109.0 | 0.790 | 4.204 | 316.7 | 476.3 | 0.883 | --- | 20.34 | 0.765 | 137.4 | 98.2 | 18.7 | 0.560 |
| 4-2520 | 4-2740 | 0.694 | 37.5 | -43.9 | -27.20 | 1.288 | 107.1 | 0.701 | 3.002 | 318.2 | 482.5 | 0.899 | --- | 26.52 | 0.695 | 133.5 | 97.0 | 26.0 | 0.513 |
| 4-2520 | 4-2760 | 0.834 | 58.6 | -47.6 | -38.45 | 1.261 | 105.3 | 0.634 | 2.494 | 320.1 | 488.6 | 0.913 | --- | 37.47 | 0.640 | 129.3 | 91.6 | 35.4 | 0.520 |
| 4-2520 | 4-2780 | 1.160 | 83.5 | -41.3 | -60.09 | 1.242 | 103.6 | 0.582 | 2.222 | 322.7 | 494.5 | 0.928 | --- | 58.80 | 0.596 | 125.1 | 78.3 | 41.6 | 0.629 |
| 4-2520 | 4-2820 | 0.992 | 350.9 | 79.6 | 50.32 | 1.217 | 104.5 | 0.533 | 1.953 | 317.4 | 506.3 | 0.912 | --- | -52.19 | 0.533 | 118.0 | 82.2 | -44.0 | 0.535 |
| 4-2520 | 4-2840 | 0.698 | 335.0 | 65.2 | 32.43 | 1.209 | 103.5 | 0.511 | 1.882 | 319.1 | 511.5 | 0.921 | --- | -34.59 | 0.511 | 113.9 | 91.3 | -43.4 | 0.386 |
| 4-2520 | 4-2860 | 0.545 | 335.7 | 53.8 | 22.93 | 1.203 | 103.0 | 0.495 | 1.834 | 320.0 | 516.5 | 0.926 | --- | -25.38 | 0.494 | 109.9 | 94.9 | -40.9 | 0.304 |
| 4-2520 | 4-2880 | 0.461 | 338.0 | 44.8 | 17.27 | 1.199 | 102.7 | 0.484 | 1.800 | 320.4 | 521.2 | 0.929 | --- | -20.01 | 0.480 | 106.1 | 95.2 | -38.5 | 0.254 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2520 | 4-2900 | 0.412 | 340.5 | 37.4 | 13.53 | 1.196 | 102.5 | 0.477 | 1.778 | 320.5 | 525.7 | 0.930 | --- | -16.57 | 0.470 | 102.4 | 93.7 | -36.3 | 0.221 |
| 4-2520 | 4-2920 | 0.382 | 342.9 | 31.2 | 10.87 | 1.194 | 102.5 | 0.473 | 1.762 | 320.2 | 529.9 | 0.929 | --- | -14.20 | 0.463 | 98.8 | 91.1 | -34.4 | 0.199 |
| 4-2520 | 4-2940 | 0.364 | 345.3 | 25.9 | 8.86 | 1.192 | 102.6 | 0.471 | 1.753 | 319.7 | 533.8 | 0.928 | --- | -12.49 | 0.457 | 95.5 | 88.0 | -32.4 | 0.184 |
| 4-2520 | 4-2960 | 0.354 | 347.6 | 21.5 | 7.27 | 1.192 | 102.9 | 0.471 | 1.748 | 318.9 | 537.5 | 0.925 | --- | -11.21 | 0.454 | 92.2 | 84.6 | -30.4 | 0.175 |
| 4-2520 | 4-2980 | 0.350 | 349.9 | 17.6 | 5.97 | 1.191 | 103.2 | 0.473 | 1.746 | 317.9 | 541.0 | 0.921 | 2.571 | -10.23 | 0.453 | 89.1 | 81.6 | -28.2 | 0.170 |
| 4-2520 | 4-3000 | 0.350 | 352.2 | 14.4 | 4.87 | 1.192 | 103.6 | 0.476 | 1.747 | 316.7 | 544.3 | 0.916 | 2.578 | -9.46 | 0.453 | 86.2 | 79.1 | -26.0 | 0.169 |
| 4-2520 | 4-3020 | 0.354 | 354.4 | 11.7 | 3.92 | 1.192 | 104.1 | 0.480 | 1.750 | 315.3 | 547.3 | 0.910 | 2.590 | -8.84 | 0.454 | 83.3 | 77.3 | -23.9 | 0.172 |
| 4-2520 | 4-3040 | 0.361 | 356.7 | 9.4 | 3.08 | 1.193 | 104.8 | 0.486 | 1.754 | 313.6 | 550.2 | 0.902 | 2.606 | -8.35 | 0.457 | 80.6 | 76.3 | -21.8 | 0.176 |
| 4-2520 | 4-3060 | 0.371 | 359.0 | 7.4 | 2.32 | 1.193 | 105.5 | 0.492 | 1.760 | 311.8 | 552.9 | 0.893 | 2.627 | -7.96 | 0.460 | 78.1 | 76.0 | -20.0 | 0.182 |
| 4-2520 | 4-3080 | 0.382 | 1.2 | 5.8 | 1.62 | 1.194 | 106.2 | 0.500 | 1.767 | 309.8 | 555.4 | 0.883 | 2.651 | -7.65 | 0.465 | 75.6 | 76.3 | -18.3 | 0.190 |
| 4-2520 | 4-3100 | 0.396 | 3.5 | 4.6 | 0.97 | 1.195 | 107.1 | 0.509 | 1.775 | 307.5 | 557.8 | 0.872 | 2,678 | -7.40 | 0.470 | 73.2 | 77.2 | -16.9 | 0.200 |
| 4-2520 | 4-3120 | 0.413 | 5.7 | 3.5 | 0.35 | 1.196 | 108.1 | 0.519 | 1.783 | 305.1 | 560.0 | 0.858 | 2.708 | -7.22 | 0.475 | 70.9 | 78.7 | -15.6 | 0.210 |
| 4-2520 | 4-3140 | 0.431 | 7.9 | 2.7 | -0.25 | 1.198 | 109.2 | 0.529 | 1.792 | 302.6 | 562.1 | 0.843 | 2.741 | -7.08 | 0.481 | 68.7 | 80.7 | -14.4 | 0.222 |
| 4-2520 | 4-3160 | 0.452 | 10.2 | 2.1 | -0.83 | 1.199 | 110.3 | 0.541 | 1.802 | 299.8 | 564.0 | 0.826 | 2.778 | -7.00 | 0.488 | 66.5 | 83.0 | -13.5 | 0.234 |
| 4-2520 | 4-3180 | 0.475 | 12.4 | 1.7 | -1.41 | 1.200 | 111.6 | 0.555 | 1.812 | 296.8 | 565.7 | 0.807 | 2.817 | -6.97 | 0.496 | 64.3 | 85.8 | -12.6 | 0.248 |
| 4-2520 | 4-3200 | 0.500 | 14.6 | 1.5 | -2.00 | 1.202 | 113.0 | 0.569 | 1.823 | 293.5 | 567.3 | 0.785 | 2.860 | -6.98 | 0.503 | 62.2 | 88.8 | -11.8 | 0.264 |
| 4-2520 | 4-3220 | 0.528 | 16.9 | 1.4 | -2.60 | 1.203 | 114.6 | 0.585 | 1.833 | 290.0 | 568.6 | 0.760 | 2.907 | -7.04 | 0.511 | 60.0 | 92.2 | -11.2 | 0.280 |
| 4-2530 | 4-2710 | 0.602 | 17.2 | -25.1 | -13.28 | 1.370 | 108.3 | 0.900 | 9.027 | 321.2 | 469.0 | 0.901 | --- | 12.45 | 0.846 | 140.3 | 101.5 | 10.9 | 0.617 |
| 4-2530 | 4-2730 | 0.564 | 21.9 | -31.7 | -15.69 | 1.321 | 106.3 | 0.778 | 4.124 | 322.6 | 475.3 | 0.916 | --- | 14.54 | 0.760 | 136.5 | 102.9 | 14.3 | 0.530 |
| 4-2530 | 4-2750 | 0.558 | 28.9 | -38.9 | -18.99 | 1.285 | 104.5 | 0.689 | 2.987 | 324.1 | 481.7 | 0.929 | --- | 17.55 | 0.692 | 132.6 | 103.5 | 19.2 | 0.467 |
| 4-2530 | 4-2770 | 0.595 | 40.0 | -45.8 | -23.90 | 1.259 | 103.1 | 0.624 | 2.496 | 325.7 | 488.0 | 0.939 | --- | 22.16 | 0.639 | 128.6 | 102.6 | 26.1 | 0.428 |
| 4-2530 | 4-2790 | 0.697 | 57.5 | -50.5 | -31.93 | 1.240 | 101.8 | 0.574 | 2.230 | 327.4 | 494.1 | 0.949 | --- | 29.90 | 0.596 | 124.5 | 98.7 | 35.0 | 0.427 |
| 4-2530 | 4-2810 | 0.926 | 81.2 | -48.7 | -46.77 | 1.226 | 100.5 | 0.537 | 2.069 | 329.5 | 500.1 | 0.958 | --- | 44.46 | 0.562 | 120.4 | 88.9 | 43.3 | 0.495 |
| 4-2530 | 4-2850 | 1.203 | 134.1 | 84.8 | 64.61 | 1.208 | 101.9 | 0.503 | 1.896 | 323.9 | 511.0 | 0.942 | --- | -67.47 | 0.513 | 113.5 | 77.9 | -43.5 | 0.632 |
| 4-2530 | 4-2870 | 0.779 | 324.6 | 76.0 | 38.62 | 1.202 | 100.9 | 0.485 | 1.848 | 326.2 | 516.1 | 0.951 | --- | -41.76 | 0.496 | 109.5 | 88.9 | -47.2 | 0.424 |
| 4-2530 | 4-2890 | 0.562 | 330.8 | 62.2 | 25.48 | 1.198 | 100.4 | 0.474 | 1.815 | 327.1 | 520.9 | 0.955 | --- | -28.88 | 0.483 | 105.7 | 94.0 | -45.6 | 0.315 |
| 4-2530 | 4-2910 | 0.450 | 336.0 | 51.4 | 18.22 | 1.195 | 100.2 | 0.466 | 1.792 | 327.5 | 525.4 | 0.956 | --- | -21.89 | 0.474 | 102.1 | 94.9 | -42.8 | 0.254 |
| 4-2530 | 4-2930 | 0.388 | 340.2 | 42.3 | 13.69 | 1.193 | 100.2 | 0.462 | 1.777 | 327.4 | 529.7 | 0.957 | --- | -17.64 | 0.467 | 98.6 | 93.5 | -40.0 | 0.218 |
| 4-2530 | 4-2950 | 0.352 | 344.0 | 34.7 | 10.60 | 1.192 | 100.3 | 0.460 | 1.768 | 327.0 | 533.7 | 0.955 | --- | -14.82 | 0.462 | 95.3 | 90.9 | -37.2 | 0.195 |
| 4-2530 | 4-2970 | 0.332 | 347.3 | 28.3 | 8.34 | 1.191 | 100.5 | 0.459 | 1.763 | 326.3 | 537.4 | 0.953 | --- | -12.84 | 0.459 | 92.2 | 87.9 | -34.5 | 0.180 |
| 4-2530 | 4-2990 | 0.321 | 350.5 | 23.0 | 6.60 | 1.191 | 100.8 | 0.460 | 1.761 | 325.3 | 540.9 | 0.950 | 2.572 | -11.39 | 0.458 | 89.2 | 85.0 | -31.7 | 0.172 |
| 4-2530 | 4-3010 | 0.318 | 353.5 | 18.5 | 5.20 | 1.191 | 101.2 | 0.463 | 1.762 | 324.1 | 544.2 | 0.946 | 2.577 | -10.28 | 0.458 | 86.4 | 82.5 | -29.0 | 0.169 |
| 4-2530 | 4-3030 | 0.319 | 356.4 | 14.8 | 4.04 | 1.192 | 101.6 | 0.467 | 1.765 | 322.7 | 547.3 | 0.941 | 2.588 | -9.43 | 0.460 | 83.7 | 80.7 | -26.4 | 0.168 |
| 4-2530 | 4-3050 | 0.323 | 359.1 | 11.7 | 3.05 | 1.192 | 102.2 | 0.471 | 1.769 | 321.1 | 550.2 | 0.935 | 2.603 | -8.75 | 0.463 | 81.1 | 79.5 | -24.0 | 0.171 |
| 4-2530 | 4-3070 | 0.331 | 1.8 | 9.2 | 2.18 | 1.193 | 102.9 | 0.477 | 1.775 | 319.3 | 553.0 | 0.928 | 2.621 | -8.21 | 0.466 | 78.7 | 79.1 | -21.8 | 0.176 |
| 4-2530 | 4-3090 | 0.341 | 4.5 | 7.2 | 1.41 | 1.194 | 103.6 | 0.484 | 1.781 | 317.4 | 555.6 | 0.920 | 2.643 | -7.77 | 0.471 | 76.3 | 79.3 | -19.8 | 0.183 |
| 4-2530 | 4-3110 | 0.353 | 7.1 | 5.6 | 0.71 | 1.195 | 104.4 | 0.491 | 1.789 | 315.2 | 558.0 | 0.910 | 2.668 | -7.43 | 0.476 | 74.1 | 80.2 | -18.1 | 0.191 |
| 4-2530 | 4-3130 | 0.367 | 9.6 | 4.3 | 0.05 | 1.196 | 105.3 | 0.500 | 1.797 | 312.9 | 560.3 | 0.900 | 2.695 | -7.15 | 0.481 | 71.9 | 81.5 | -16.6 | 0.200 |
| 4-2530 | 4-3150 | 0.384 | 12.1 | 3.4 | -0.56 | 1.197 | 106.3 | 0.509 | 1.806 | 310.4 | 562.5 | 0.887 | 2.728 | -6.94 | 0.488 | 69.8 | 83.4 | -15.3 | 0.210 |
| 4-2530 | 4-3170 | 0.402 | 14.5 | 2.7 | -1.15 | 1.198 | 107.3 | 0.519 | 1.816 | 307.7 | 564.5 | 0.873 | 2.759 | -6.78 | 0.495 | 67.8 | 85.6 | -14.1 | 0.221 |
| 4-2530 | 4-3190 | 0.423 | 17.0 | 2.2 | -1.72 | 1.200 | 108.5 | 0.531 | 1.826 | 304.7 | 566.3 | 0.857 | 2.795 | -6.67 | 0.502 | 65.8 | 88.3 | -13.1 | 0.234 |
| 4-2530 | 4-3210 | 0.446 | 19.4 | 1.9 | -2.29 | 1.201 | 109.8 | 0.544 | 1.836 | 301.6 | 568.0 | 0.838 | 2.834 | -6.62 | 0.510 | 63.8 | 91.2 | -12.3 | 0.248 |
| 4-2530 | 4-3230 | 0.471 | 21.8 | 1.8 | -2.85 | 1.202 | 111.2 | 0.558 | 1.847 | 298.3 | 569.6 | 0.817 | 2.876 | -6.60 | 0.518 | 61.9 | 94.5 | -11.5 | 0.263 |
| 4-2540 | 4-2700 | 0.613 | 16.2 | -17.9 | -10.02 | 1.429 | 107.4 | 1.05516.805 | | 326.1 | 461.8 | 0.921 | --- | 8.69 | 0.943 | 142.8 | 103.1 | 7.0 | 0.705 |
| 4-2540 | 4-2720 | 0.542 | 18.5 | -22.9 | -11.25 | 1.363 | 105.3 | 0.883 | 8.003 | 327.4 | 468.2 | 0.935 | --- | 9.61 | 0.835 | 139.2 | 105.1 | 8.8 | 0.594 |
| 4-2540 | 4-2740 | 0.497 | 21.4 | -28.7 | -12.75 | 1.316 | 103.4 | 0.762 | 3.978 | 328.9 | 474.7 | 0.947 | --- | 10.81 | 0.752 | 135.5 | 106.7 | 11.3 | 0.507 |
| 4-2540 | 4-2760 | 0.476 | 25.4 | -35.1 | -14.67 | 1.281 | 101.8 | 0.675 | 2.941 | 330.6 | 481.3 | 0.957 | --- | 12.44 | 0.686 | 131.6 | 107.8 | 14.6 | 0.439 |
| 4-2540 | 4-2780 | 0.478 | 31.3 | -41.8 | -17.22 | 1.256 | 100.5 | 0.611 | 2.479 | 332.2 | 487.7 | 0.965 | --- | 14.72 | 0.634 | 127.6 | 108.1 | 19.2 | 0.388 |
| 4-2540 | 4-2800 | 0.508 | 40.4 | -48.2 | -20.87 | 1.238 | 99.4 | 0.563 | 2.226 | 333.9 | 494.0 | 0.972 | --- | 18.10 | 0.593 | 123.6 | 107.3 | 25.6 | 0.356 |
| 4-2540 | 4-2820 | 0.582 | 54.7 | -53.3 | -26.52 | 1.224 | 98.4 | 0.528 | 2.071 | 335.4 | 500.1 | 0.978 | --- | 23.49 | 0.560 | 119.7 | 104.4 | 33.9 | 0.348 |
| 4-2540 | 4-2840 | 0.736 | 75.7 | -54.5 | -36.40 | 1.214 | 97.6 | 0.501 | 1.971 | 337.0 | 505.9 | 0.982 | --- | 33.11 | 0.534 | 115.7 | 97.5 | 42.9 | 0.386 |
| 4-2540 | 4-2860 | 1.059 | 100.1 | -47.4 | -56.20 | 1.207 | 96.7 | 0.481 | 1.903 | 339.1 | 511.5 | 0.988 | --- | 52.67 | 0.514 | 111.7 | 85.0 | 47.1 | 0.518 |
| 4-2540 | 4-2900 | 0.928 | 260.8 | 83.9 | 48.36 | 1.197 | 98.4 | 0.466 | 1.825 | 333.3 | 520.9 | 0.975 | --- | -52.39 | 0.485 | 105.2 | 86.0 | -48.3 | 0.497 |
| 4-2540 | 4-2920 | 0.602 | 318.5 | 69.8 | 28.99 | 1.195 | 97.9 | 0.457 | 1.803 | 334.5 | 525.5 | 0.978 | --- | -33.26 | 0.476 | 101.6 | 92.7 | -49.0 | 0.339 |
| 4-2540 | 4-2940 | 0.446 | 330.9 | 57.1 | 19.30 | 1.193 | 97.8 | 0.453 | 1.789 | 334.7 | 529.8 | 0.979 | --- | -23.82 | 0.470 | 98.2 | 94.1 | -46.3 | 0.260 |
| 4-2540 | 4-2960 | 0.366 | 338.3 | 46.3 | 13.73 | 1.192 | 97.9 | 0.450 | 1.780 | 334.4 | 533.8 | 0.978 | --- | -18.50 | 0.466 | 95.0 | 92.8 | -42.7 | 0.217 |
| 4-2540 | 4-2980 | 0.324 | 344.0 | 37.2 | 10.14 | 1.191 | 98.1 | 0.450 | 1.775 | 333.8 | 537.6 | 0.977 | --- | -15.16 | 0.463 | 92.0 | 90.4 | -39.1 | 0.192 |
| 4-2540 | 4-3000 | 0.301 | 348.7 | 29.5 | 7.62 | 1.191 | 98.3 | 0.450 | 1.773 | 332.9 | 541.1 | 0.975 | 2.572 | -12.89 | 0.462 | 89.1 | 87.7 | -35.5 | 0.178 |
| 4-2540 | 4-3020 | 0.290 | 352.9 | 23.1 | 5.74 | 1.191 | 98.7 | 0.452 | 1.774 | 331.7 | 544.4 | 0.972 | 2.577 | -11.26 | 0.463 | 86.4 | 85.3 | -32.0 | 0.170 |
| 4-2540 | 4-3040 | 0.287 | 356.7 | 17.9 | 4.26 | 1.191 | 99.2 | 0.455 | 1.777 | 330.4 | 547.5 | 0.968 | 2.587 | -10.05 | 0.465 | 83.8 | 83.5 | -28.8 | 0.167 |
| 4-2540 | 4-3060 | 0.289 | 0.2 | 13.8 | 3.06 | 1.192 | 99.7 | 0.459 | 1.782 | 328.8 | 550.5 | 0.963 | 2.600 | -9.12 | 0.468 | 81.3 | 82.3 | -25.9 | 0.168 |
| 4-2540 | 4-3080 | 0.294 | 3.6 | 10.5 | 2.05 | 1.193 | 100.3 | 0.464 | 1.788 | 327.0 | 553.3 | 0.958 | 2.617 | -8.40 | 0.472 | 79.0 | 81.8 | -23.2 | 0.171 |
| 4-2540 | 4-3100 | 0.302 | 6.7 | 7.9 | 1.18 | 1.194 | 101.0 | 0.470 | 1.794 | 325.1 | 555.9 | 0.951 | 2.638 | -7.82 | 0.476 | 76.8 | 82.0 | -20.9 | 0.177 |
| 4-2540 | 4-3120 | 0.313 | 9.8 | 5.9 | 0.41 | 1.195 | 101.7 | 0.476 | 1.802 | 323.0 | 558.4 | 0.943 | 2.661 | -7.36 | 0.481 | 74.7 | 82.8 | -18.9 | 0.183 |
| 4-2540 | 4-3140 | 0.326 | 12.7 | 4.4 | -0.28 | 1.196 | 102.6 | 0.484 | 1.810 | 320.7 | 560.7 | 0.935 | 2.686 | -6.99 | 0.487 | 72.6 | 84.1 | -17.2 | 0.191 |
| 4-2540 | 4-3160 | 0.341 | 15.6 | 3.3 | -0.91 | 1.197 | 103.5 | 0.492 | 1.819 | 318.2 | 563.0 | 0.924 | 2.714 | -8.69 | 0.494 | 70.7 | 85.9 | -15.7 | 0.201 |
| 4-2540 | 4-3180 | 0.357 | 18.3 | 2.5 | -1.51 | 1.198 | 104.5 | 0.501 | 1.829 | 315.5 | 565.0 | 0.913 | 2.745 | -6.46 | 0.501 | 68.8 | 88.1 | -14.4 | 0.211 |
| 4-2540 | 4-3200 | 0.376 | 21.0 | 2.0 | -2.07 | 1.199 | 105.6 | 0.511 | 1.839 | 312.7 | 567.0 | 0.899 | 2.778 | -6.29 | 0.508 | 66.9 | 90.7 | -13.3 | 0.222 |
| 4-2540 | 4-3220 | 0.397 | 23.7 | 1.7 | -2.61 | 1.200 | 106.8 | 0.522 | 1.849 | 309.8 | 568.8 | 0.884 | 2.813 | -6.16 | 0.516 | 65.1 | 93.6 | -12.4 | 0.234 |
| 4-2540 | 4-3240 | 0.420 | 26.3 | 1.7 | -3.15 | 1.202 | 108.1 | 0.534 | 1.859 | 306.4 | 570.5 | 0.866 | 2.852 | -6.09 | 0.524 | 63.4 | 96.8 | -11.5 | 0.248 |
| 4-2550 | 4-2710 | 0.555 | 18.0 | -17.2 | -9.04 | 1.417 | 104.0 | 1.02932.465 | | 332.5 | 461.3 | 0.953 | --- | 6.85 | 0.926 | 141.6 | 106.2 | 5.8 | 0.678 |
| 4-2550 | 4-2730 | 0.487 | 19.3 | -22.0 | -9.88 | 1.354 | 102.0 | 0.861 | 6.929 | 334.1 | 467.9 | 0.964 | --- | 7.40 | 0.822 | 138.1 | 108.2 | 7.1 | 0.570 |
| 4-2550 | 4-2750 | 0.442 | 21.0 | -27.4 | -10.87 | 1.309 | 100.3 | 0.742 | 3.781 | 335.8 | 474.7 | 0.974 | --- | 8.12 | 0.741 | 134.4 | 109.8 | 8.9 | 0.485 |
| 4-2550 | 4-2770 | 0.415 | 23.1 | -33.3 | -12.05 | 1.276 | 98.8 | 0.658 | 2.866 | 337.7 | 481.4 | 0.981 | --- | 9.04 | 0.678 | 130.5 | 111.0 | 11.2 | 0.416 |
| 4-2550 | 4-2790 | 0.405 | 26.2 | -39.3 | -13.52 | 1.252 | 97.6 | 0.596 | 2.444 | 339.5 | 488.0 | 0.987 | --- | 10.26 | 0.628 | 126.6 | 111.7 | 14.3 | 0.363 |
| 4-2550 | 4-2810 | 0.410 | 30.9 | -45.3 | -15.44 | 1.235 | 96.7 | 0.551 | 2.208 | 341.1 | 494.4 | 0.992 | --- | 11.94 | 0.588 | 122.6 | 111.7 | 18.6 | 0.321 |
| 4-2550 | 4-2830 | 0.435 | 38.1 | -51.0 | -18.08 | 1.222 | 95.9 | 0.517 | 2.063 | 342.6 | 500.6 | 0.996 | --- | 14.35 | 0.557 | 118.7 | 110.8 | 24.4 | 0.293 |
| 4-2550 | 4-2850 | 0.486 | 49.3 | -56.0 | -21.99 | 1.212 | 95.3 | 0.493 | 1.968 | 343.9 | 506.5 | 0.998 | --- | 18.03 | 0.532 | 114.8 | 108.3 | 31.9 | 0.283 |
| 4-2550 | 4-2870 | 0.586 | 66.8 | -58.9 | -28.41 | 1.205 | 94.8 | 0.475 | 1.904 | 345.1 | 512.0 | 1.000 | --- | 24.23 | 0.512 | 111.0 | 103.5 | 40.8 | 0.300 |
| 4-2550 | 4-2890 | 0.791 | 91.2 | -57.1 | -40.67 | 1.200 | 94.3 | 0.461 | 1.860 | 346.3 | 517.2 | 1.002 | --- | 36.27 | 0.497 | 107.3 | 94.7 | 48.3 | 0.376 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2550 | 4-2910 | 1.236 | 116.9 | -44.5 | -68.02 | 1.196 | 93.6 | 0.451 | 1.830 | 348.3 | 522.3 | 1.005 | --- | 63.40 | 0.486 | 103.5 | 83.4 | 46.7 | 0.581 |
| 4-2550 | 4-2930 | 1.195 | 191.7 | 73.6 | 65.36 | 1.194 | 96.1 | 0.451 | 1.810 | 340.1 | 525.8 | 0.993 | --- | -70.19 | 0.477 | 101.1 | 84.3 | -44.7 | 0.627 |
| 4-2550 | 4-2950 | 0.683 | 291.1 | 75.0 | 34.41 | 1.192 | 95.6 | 0.446 | 1.796 | 341.9 | 530.3 | 0.996 | --- | -39.45 | 0.472 | 97.6 | 91.4 | -50.9 | 0.382 |
| 4-2550 | 4-2970 | 0.453 | 322.1 | 61.5 | 20.64 | 1.191 | 95.5 | 0.443 | 1.788 | 342.0 | 534.3 | 0.996 | --- | -25.90 | 0.468 | 94.5 | 93.3 | -48.8 | 0.271 |
| 4-2550 | 4-2990 | 0.348 | 334.9 | 48.9 | 13.61 | 1.190 | 95.6 | 0.442 | 1.784 | 341.6 | 538.1 | 0.996 | --- | -19.09 | 0.466 | 91.5 | 92.1 | -44.5 | 0.218 |
| 4-2550 | 4-3010 | 0.296 | 343.1 | 37.9 | 9.43 | 1.190 | 95.9 | 0.443 | 1.783 | 340.7 | 541.6 | 0.994 | 2.572 | -15.12 | 0.466 | 88.7 | 89.8 | -39.8 | 0.190 |
| 4-2550 | 4-3030 | 0.272 | 349.5 | 28.7 | 6.64 | 1.190 | 96.2 | 0.444 | 1.784 | 339.6 | 544.9 | 0.992 | 2.577 | -12.56 | 0.467 | 86.1 | 87.5 | -35.3 | 0.175 |
| 4-2550 | 4-3050 | 0.261 | 354.9 | 21.3 | 4.64 | 1.191 | 96.7 | 0.447 | 1.788 | 338.2 | 548.0 | 0.989 | 2.586 | -10.78 | 0.469 | 83.6 | 85.8 | -31.2 | 0.169 |
| 4-2550 | 4-3070 | 0.259 | 359.5 | 15.5 | 3.12 | 1.192 | 97.2 | 0.450 | 1.793 | 336.6 | 550.9 | 0.986 | 2.599 | -9.49 | 0.472 | 81.3 | 84.6 | -27.5 | 0.167 |
| 4-2550 | 4-3090 | 0.262 | 3.8 | 11.1 | 1.91 | 1.192 | 97.8 | 0.454 | 1.799 | 334.9 | 553.7 | 0.981 | 2.616 | -8.52 | 0.476 | 79.1 | 84.2 | -24.3 | 0.168 |
| 4-2550 | 4-3110 | 0.269 | 7.7 | 7.7 | 0.91 | 1.193 | 98.4 | 0.459 | 1.806 | 332.9 | 556.4 | 0.977 | 2.635 | -7.77 | 0.481 | 77.0 | 84.3 | -21.6 | 0.172 |
| 4-2550 | 4-3130 | 0.278 | 11.4 | 5.2 | 0.07 | 1.194 | 99.2 | 0.465 | 1.813 | 330.8 | 558.9 | 0.971 | 2.656 | -7.18 | 0.487 | 75.0 | 85.1 | -19.3 | 0.178 |
| 4-2550 | 4-3150 | 0.289 | 14.9 | 3.4 | -0.67 | 1.195 | 100.0 | 0.471 | 1.822 | 328.5 | 561.3 | 0.964 | 2.680 | -6.71 | 0.493 | 73.1 | 86.4 | -17.3 | 0.185 |
| 4-2550 | 4-3170 | 0.302 | 18.2 | 2.1 | -1.33 | 1.196 | 100.8 | 0.478 | 1.831 | 326.1 | 563.5 | 0.956 | 2.706 | -6.33 | 0.499 | 71.2 | 88.2 | -15.7 | 0.193 |
| 4-2550 | 4-3190 | 0.317 | 21.4 | 1.3 | -1.93 | 1.198 | 101.8 | 0.486 | 1.840 | 323.4 | 565.7 | 0.946 | 2.734 | -6.03 | 0.506 | 69.5 | 90.4 | -14.3 | 0.202 |
| 4-2550 | 4-3210 | 0.334 | 24.4 | 0.8 | -2.48 | 1.199 | 102.8 | 0.494 | 1.850 | 320.6 | 567.7 | 0.935 | 2.765 | -5.79 | 0.514 | 67.8 | 93.0 | -13.1 | 0.213 |
| 4-2550 | 4-3230 | 0.353 | 27.4 | 0.6 | -3.00 | 1.200 | 103.9 | 0.504 | 1.860 | 317.6 | 569.6 | 0.923 | 2.798 | -5.61 | 0.521 | 66.1 | 95.9 | -12.0 | 0.224 |
| 4-2550 | 4-3250 | 0.373 | 30.2 | 0.7 | -3.50 | 1.201 | 105.1 | 0.514 | 1.871 | 314.4 | 571.3 | 0.908 | 2.833 | -5.48 | 0.530 | 64.5 | 99.1 | -11.1 | 0.236 |
| 4-2560 | 4-2700 | 0.594 | 17.8 | -13.5 | -7.82 | 1.489 | 102.2 | 1.237 | -4.100 | 337.9 | 454.6 | 0.972 | --- | 5.00 | 1.036 | 143.8 | 107.0 | 3.9 | 0.784 |
| 4-2560 | 4-2720 | 0.502 | 18.5 | -17.7 | -8.34 | 1.404 | 100.3 | 0.996 | 62.215 | 339.4 | 461.3 | 0.981 | --- | 5.26 | 0.905 | 140.5 | 109.0 | 4.7 | 0.650 |
| 4-2560 | 4-2740 | 0.438 | 18.9 | -22.5 | -8.92 | 1.344 | 98.5 | 0.833 | 5.930 | 341.3 | 468.2 | 0.989 | --- | 5.59 | 0.805 | 136.9 | 110.9 | 5.6 | 0.546 |
| 4-2560 | 4-2760 | 0.395 | 19.3 | -27.7 | -9.57 | 1.301 | 97.0 | 0.720 | 3.549 | 343.3 | 475.2 | 0.996 | --- | 6.00 | 0.728 | 133.2 | 112.4 | 6.9 | 0.463 |
| 4-2560 | 4-2780 | 0.368 | 20.0 | -33.1 | -10.33 | 1.270 | 95.7 | 0.639 | 2.769 | 345.4 | 482.1 | 1.001 | --- | 6.53 | 0.667 | 129.3 | 113.6 | 8.5 | 0.396 |
| 4-2560 | 4-2800 | 0.353 | 21.2 | -38.5 | -11.21 | 1.247 | 94.6 | 0.580 | 2.393 | 347.3 | 488.9 | 1.004 | --- | 7.20 | 0.619 | 125.4 | 114.3 | 10.7 | 0.342 |
| 4-2560 | 4-2820 | 0.350 | 23.1 | -43.8 | -12.30 | 1.231 | 93.8 | 0.538 | 2.179 | 349.1 | 495.5 | 1.007 | --- | 8.08 | 0.581 | 121.5 | 114.5 | 13.5 | 0.299 |
| 4-2560 | 4-2840 | 0.356 | 26.4 | -48.9 | -13.68 | 1.219 | 93.1 | 0.507 | 2.045 | 350.6 | 501.7 | 1.009 | --- | 9.26 | 0.551 | 117.5 | 114.0 | 17.3 | 0.265 |
| 4-2560 | 4-2860 | 0.375 | 31.5 | -53.8 | -15.52 | 1.210 | 92.6 | 0.484 | 1.958 | 351.9 | 507.6 | 1.010 | --- | 10.91 | 0.528 | 113.7 | 112.7 | 22.3 | 0.241 |
| 4-2560 | 4-2880 | 0.409 | 39.8 | -58.2 | -18.14 | 1.203 | 92.3 | 0.468 | 1.899 | 352.8 | 513.1 | 1.011 | --- | 13.33 | 0.509 | 110.0 | 110.2 | 28.8 | 0.229 |
| 4-2560 | 4-2900 | 0.472 | 53.2 | -62.0 | -22.21 | 1.198 | 92.0 | 0.456 | 1.858 | 353.5 | 518.2 | 1.011 | --- | 17.22 | 0.495 | 106.3 | 106.3 | 37.0 | 0.234 |
| 4-2560 | 4-2920 | 0.591 | 74.8 | -63.6 | -29.43 | 1.195 | 91.9 | 0.447 | 1.831 | 354.0 | 523.0 | 1.012 | --- | 24.26 | 0.485 | 102.8 | 100.5 | 45.7 | 0.272 |
| 4-2560 | 4-2940 | 0.858 | 104.9 | -58.9 | -45.11 | 1.192 | 91.6 | 0.442 | 1.812 | 354.6 | 527.6 | 1.012 | --- | 39.76 | 0.477 | 99.5 | 92.2 | 51.0 | 0.387 |
| 4-2560 | 4-2980 | 0.845 | 246.7 | 74.1 | 44.30 | 1.190 | 93.3 | 0.438 | 1.793 | 349.2 | 535.0 | 1.008 | --- | -50.01 | 0.469 | 93.9 | 91.2 | -50.5 | 0.465 |
| 4-2560 | 4-3000 | 0.474 | 309.9 | 64.1 | 22.47 | 1.190 | 93.2 | 0.437 | 1.790 | 349.4 | 538.8 | 1.008 | --- | -28.36 | 0.468 | 90.9 | 92.9 | -50.5 | 0.288 |
| 4-2560 | 4-3020 | 0.330 | 330.7 | 49.4 | 13.24 | 1.190 | 93.4 | 0.437 | 1.790 | 348.7 | 542.3 | 1.007 | 2.572 | -19.31 | 0.468 | 88.2 | 91.4 | -45.1 | 0.218 |
| 4-2560 | 4-3040 | 0.270 | 342.2 | 36.1 | 8.35 | 1.190 | 93.8 | 0.439 | 1.792 | 347.6 | 545.6 | 1.006 | 2.578 | -14.60 | 0.470 | 85.7 | 89.3 | -39.2 | 0.187 |
| 4-2560 | 4-3060 | 0.244 | 350.3 | 25.2 | 5.33 | 1.190 | 94.2 | 0.441 | 1.796 | 346.2 | 548.7 | 1.004 | 2.587 | -11.76 | 0.472 | 83.3 | 87.5 | -33.7 | 0.173 |
| 4-2560 | 4-3080 | 0.236 | 356.8 | 16.8 | 3.26 | 1.191 | 94.7 | 0.444 | 1.801 | 344.6 | 551.6 | 1.002 | 2.600 | -9.89 | 0.476 | 81.0 | 86.4 | -28.9 | 0.167 |
| 4-2560 | 4-3100 | 0.236 | 2.3 | 10.6 | 1.75 | 1.192 | 95.3 | 0.447 | 1.808 | 342.8 | 554.4 | 0.999 | 2.616 | -8.56 | 0.480 | 78.9 | 86.0 | -25.0 | 0.166 |
| 4-2560 | 4-3120 | 0.240 | 7.2 | 6.2 | 0.58 | 1.193 | 95.9 | 0.451 | 1.815 | 340.9 | 557.0 | 0.996 | 2.634 | -7.59 | 0.485 | 76.9 | 86.3 | -21.7 | 0.169 |
| 4-2560 | 4-3140 | 0.248 | 11.7 | 3.1 | -0.37 | 1.194 | 96.6 | 0.456 | 1.823 | 338.7 | 559.5 | 0.992 | 2.654 | -6.85 | 0.491 | 75.0 | 87.1 | -19.0 | 0.173 |
| 4-2560 | 4-3160 | 0.258 | 15.9 | 1.0 | -1.16 | 1.195 | 97.4 | 0.461 | 1.832 | 336.4 | 561.9 | 0.987 | 2.677 | -6.27 | 0.497 | 73.2 | 88.5 | -16.8 | 0.180 |
| 4-2560 | 4-3180 | 0.270 | 19.7 | -0.4 | -1.84 | 1.196 | 98.2 | 0.467 | 1.841 | 334.0 | 564.2 | 0.981 | 2.701 | -5.82 | 0.504 | 71.5 | 90.3 | -15.0 | 0.187 |
| 4-2560 | 4-3200 | 0.283 | 23.4 | -1.2 | -2.43 | 1.197 | 99.1 | 0.474 | 1.851 | 331.3 | 566.4 | 0.973 | 2.728 | -5.45 | 0.511 | 69.9 | 92.5 | -13.5 | 0.196 |
| 4-2560 | 4-3220 | 0.298 | 26.9 | -1.6 | -2.97 | 1.199 | 100.1 | 0.481 | 1.861 | 328.5 | 568.4 | 0.965 | 2.756 | -5.17 | 0.519 | 68.3 | 95.1 | -12.2 | 0.205 |
| 4-2560 | 4-3240 | 0.315 | 30.2 | -1.6 | -3.46 | 1.200 | 101.2 | 0.490 | 1.871 | 325.6 | 570.4 | 0.955 | 2.787 | -4.94 | 0.527 | 66.8 | 98.0 | -11.2 | 0.215 |
| 4-2560 | 4-3260 | 0.333 | 33.4 | -1.3 | -3.92 | 1.201 | 102.3 | 0.499 | 1.881 | 322.4 | 572.2 | 0.943 | 2.820 | -4.76 | 0.535 | 65.3 | 101.2 | -10.3 | 0.227 |
| 4-2570 | 4-2710 | 0.538 | 17.5 | -14.9 | -7.48 | 1.469 | 98.1 | 1.185 | -5.380 | 345.1 | 454.9 | 0.996 | --- | 3.70 | 1.006 | 142.7 | 109.6 | 3.0 | 0.748 |
| 4-2570 | 4-2730 | 0.455 | 17.2 | -19.3 | -7.84 | 1.388 | 96.3 | 0.956 | 22.568 | 347.0 | 461.9 | 1.002 | --- | 3.84 | 0.881 | 139.3 | 111.5 | 3.6 | 0.620 |
| 4-2570 | 4-2750 | 0.397 | 16.5 | -24.1 | -8.23 | 1.332 | 94.8 | 0.801 | 5.058 | 349.2 | 469.1 | 1.007 | --- | 4.02 | 0.785 | 135.7 | 113.2 | 4.2 | 0.520 |
| 4-2570 | 4-2770 | 0.359 | 15.6 | -29.2 | -8.65 | 1.291 | 93.5 | 0.694 | 3.300 | 351.6 | 476.4 | 1.010 | --- | 4.24 | 0.711 | 131.9 | 114.5 | 5.1 | 0.440 |
| 4-2570 | 4-2790 | 0.334 | 14.8 | -34.2 | -9.12 | 1.263 | 92.3 | 0.618 | 2.653 | 353.9 | 483.6 | 1.013 | --- | 4.53 | 0.653 | 128.1 | 115.6 | 6.2 | 0.375 |
| 4-2570 | 4-2810 | 0.319 | 14.2 | -39.0 | -9.66 | 1.241 | 91.4 | 0.564 | 2.327 | 356.0 | 490.5 | 1.014 | --- | 4.89 | 0.607 | 124.1 | 116.2 | 7.6 | 0.323 |
| 4-2570 | 4-2830 | 0.312 | 14.2 | -43.5 | -10.28 | 1.226 | 90.7 | 0.525 | 2.138 | 357.8 | 497.1 | 1.015 | --- | 5.34 | 0.572 | 120.2 | 116.3 | 9.5 | 0.280 |
| 4-2570 | 4-2850 | 0.311 | 14.9 | -47.6 | -11.03 | 1.215 | 90.2 | 0.497 | 2.018 | 359.4 | 503.4 | 1.015 | --- | 5.93 | 0.544 | 116.3 | 115.7 | 11.8 | 0.245 |
| 4-2570 | 4-2870 | 0.317 | 16.6 | -51.5 | -11.97 | 1.206 | 89.8 | 0.477 | 1.940 | 0.6 | 149.3 | --- | --- | 6.71 | 0.522 | 112.4 | 114.5 | 15.0 | 0.218 |
| 4-2570 | 4-2890 | 0.329 | 19.9 | -55.2 | -13.18 | 1.200 | 89.6 | 0.462 | 1.887 | 1.4 | 154.7 | --- | --- | 7.77 | 0.505 | 108.7 | 112.5 | 19.0 | 0.198 |
| 4-2570 | 4-2910 | 0.351 | 25.3 | -58.9 | -14.84 | 1.196 | 89.4 | 0.452 | 1.850 | 1.9 | 159.8 | --- | --- | 9.28 | 0.492 | 105.2 | 109.7 | 24.3 | 0.186 |
| 4-2570 | 4-2930 | 0.387 | 34.2 | -62.6 | -17.30 | 1.193 | 89.4 | 0.444 | 1.826 | 2.0 | 164.5 | --- | --- | 11.60 | 0.483 | 101.8 | 106.0 | 31.0 | 0.184 |
| 4-2570 | 4-2950 | 0.451 | 49.6 | -66.1 | -21.36 | 1.191 | 89.4 | 0.439 | 1.810 | 2.0 | 168.8 | --- | --- | 15.52 | 0.476 | 98.5 | 101.6 | 39.2 | 0.199 |
| 4-2570 | 4-2970 | 0.586 | 77.4 | -67.7 | -29.39 | 1.190 | 89.5 | 0.436 | 1.800 | 1.7 | 172.9 | --- | --- | 23.40 | 0.472 | 95.4 | 96.6 | 47.9 | 0.252 |
| 4-2570 | 4-2990 | 0.952 | 118.5 | -59.9 | -50.90 | 1.189 | 89.5 | 0.435 | 1.795 | 1.8 | 176.9 | --- | --- | 44.78 | 0.470 | 92.4 | 92.1 | 51.5 | 0.422 |
| 4-2570 | 4-3010 | 1.212 | 209.7 | 62.0 | 67.01 | 1.189 | 91.2 | 0.434 | 1.793 | 356.0 | 539.7 | 1.014 | --- | -73.27 | 0.469 | 90.2 | 93.3 | -44.3 | 0.643 |
| 4-2570 | 4-3030 | 0.520 | 294.8 | 65.0 | 25.47 | 1.189 | 91.0 | 0.434 | 1.794 | 356.7 | 543.3 | 1.014 | 2.573 | -31.87 | 0.470 | 87.5 | 93.4 | -51.5 | 0.317 |
| 4-2570 | 4-3050 | 0.312 | 327.6 | 47.4 | 12.44 | 1.189 | 91.3 | 0.436 | 1.797 | 355.8 | 546.6 | 1.014 | 2.579 | -18.98 | 0.472 | 85.0 | 90.9 | -44.7 | 0.217 |
| 4-2570 | 4-3070 | 0.244 | 342.3 | 30.6 | 6.73 | 1.190 | 91.7 | 0.437 | 1.801 | 354.4 | 549.6 | 1.013 | 2.589 | -13.41 | 0.475 | 82.7 | 88.9 | -36.8 | 0.182 |
| 4-2570 | 4-3090 | 0.222 | 351.8 | 17.7 | 3.56 | 1.191 | 92.2 | 0.440 | 1.807 | 352.8 | 552.5 | 1.012 | 2.602 | -10.38 | 0.479 | 80.6 | 87.8 | -30.2 | 0.169 |
| 4-2570 | 4-3110 | 0.217 | 359.1 | 8.8 | 1.53 | 1.192 | 92.8 | 0.443 | 1.814 | 350.9 | 555.2 | 1.011 | 2.618 | -8.50 | 0.484 | 78.5 | 87.5 | -25.1 | 0.165 |
| 4-2570 | 4-3130 | 0.220 | 5.3 | 2.9 | 0.10 | 1.193 | 93.4 | 0.446 | 1.822 | 348.9 | 557.8 | 1.009 | 2.635 | -7.22 | 0.489 | 76.7 | 87.8 | -21.1 | 0.166 |
| 4-2570 | 4-3150 | 0.226 | 10.7 | -1.0 | -0.97 | 1.194 | 94.1 | 0.450 | 1.831 | 346.7 | 560.3 | 1.006 | 2.655 | -6.31 | 0.495 | 74.9 | 88.8 | -18.0 | 0.170 |
| 4-2570 | 4-3170 | 0.235 | 15.6 | -3.3 | -1.81 | 1.195 | 94.9 | 0.455 | 1.840 | 344.4 | 562.7 | 1.003 | 2.677 | -5.62 | 0.502 | 73.2 | 90.2 | -15.5 | 0.176 |
| 4-2570 | 4-3190 | 0.245 | 20.1 | -4.7 | -2.50 | 1.196 | 95.7 | 0.460 | 1.850 | 341.9 | 565.0 | 0.999 | 2.700 | -5.10 | 0.509 | 71.6 | 92.2 | -13.6 | 0.183 |
| 4-2570 | 4-3210 | 0.257 | 24.3 | -5.4 | -3.08 | 1.197 | 96.6 | 0.465 | 1.860 | 339.3 | 567.1 | 0.994 | 2.725 | -4.69 | 0.516 | 70.1 | 94.5 | -12.0 | 0.191 |
| 4-2570 | 4-3230 | 0.269 | 28.3 | -5.5 | -3.58 | 1.198 | 97.5 | 0.472 | 1.870 | 336.4 | 569.2 | 0.988 | 2.752 | -4.37 | 0.524 | 68.6 | 97.1 | -10.8 | 0.199 |
| 4-2570 | 4-3250 | 0.284 | 32.1 | -5.2 | -4.03 | 1.200 | 98.5 | 0.479 | 1.880 | 333.5 | 571.2 | 0.980 | 2.780 | -4.12 | 0.532 | 67.2 | 100.1 | -9.7 | 0.209 |
| 4-2570 | 4-3270 | 0.300 | 35.7 | -4.6 | -4.44 | 1.201 | 99.6 | 0.486 | 1.891 | 330.3 | 573.1 | 0.971 | 2.811 | -3.92 | 0.540 | 65.9 | 103.3 | -8.8 | 0.219 |
| 4-2580 | 4-2700 | 0.604 | 15.9 | -13.1 | -7.04 | 1.556 | 95.2 | 1.458 | -2.205 | 351.2 | 448.9 | 1.009 | --- | 2.42 | 1.133 | 144.8 | 110.1 | 1.8 | 0.871 |
| 4-2580 | 4-2720 | 0.493 | 15.1 | -17.2 | -7.27 | 1.446 | 93.7 | 1.123 | -8.215 | 353.1 | 455.9 | 1.012 | --- | 2.46 | 0.972 | 141.7 | 111.8 | 2.1 | 0.710 |
| 4-2580 | 4-2740 | 0.418 | 13.5 | -21.8 | -7.49 | 1.371 | 92.2 | 0.909 | 11.121 | 355.4 | 463.3 | 1.014 | --- | 2.52 | 0.853 | 138.2 | 113.5 | 2.4 | 0.588 |
| 4-2580 | 4-2760 | 0.368 | 11.4 | -26.6 | -7.73 | 1.318 | 90.9 | 0.765 | 4.327 | 358.0 | 470.9 | 1.016 | --- | 2.61 | 0.762 | 134.5 | 114.9 | 2.9 | 0.493 |
| 4-2580 | 4-2780 | 0.335 | 9.1 | -31.3 | 7.99 | 1.281 | 89.7 | 0.667 | 3.048 | 0.6 | 118.5 | --- | --- | 2.72 | 0.691 | 130.7 | 116.1 | 3.4 | 0.417 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2580 | 4-2800 | 0.314 | 6.8 | -35.7 | -8.26 | 1.254 | 88.8 | 0.598 | 2.525 | 3.2 | 125.9 | --- | --- | 2.85 | 0.636 | 126.7 | 116.9 | 4.1 | 0.355 |
| 4-2580 | 4-2820 | 0.301 | 4.7 | -39.6 | -8.56 | 1.235 | 88.1 | 0.549 | 2.251 | 5.4 | 132.9 | --- | --- | 3.03 | 0.594 | 122.7 | 117.3 | 5.0 | 0.305 |
| 4-2580 | 4-2840 | 0.294 | 3.2 | -43.0 | -8.90 | 1.221 | 87.5 | 0.515 | 2.087 | 7.3 | 139.6 | --- | --- | 3.24 | 0.560 | 118.7 | 117.1 | 6.1 | 0.264 |
| 4-2580 | 4-2860 | 0.291 | 2.3 | -45.9 | -9.29 | 1.210 | 87.1 | 0.490 | 1.983 | 8.9 | 145.8 | --- | --- | 3.52 | 0.534 | 114.8 | 116.3 | 7.4 | 0.230 |
| 4-2580 | 4-2880 | 0.291 | 2.1 | -48.6 | -9.75 | 1.203 | 86.8 | 0.472 | 1.915 | 9.9 | 151.6 | --- | --- | 3.87 | 0.514 | 111.0 | 114.9 | 9.2 | 0.203 |
| 4-2580 | 4-2900 | 0.295 | 2.9 | -51.1 | -10.32 | 1.197 | 86.7 | 0.459 | 1.869 | 10.6 | 156.9 | --- | --- | 4.33 | 0.498 | 107.3 | 112.7 | 11.4 | 0.181 |
| 4-2580 | 4-2920 | 0.301 | 4.7 | -53.6 | -11.03 | 1.194 | 86.6 | 0.450 | 1.837 | 10.9 | 161.8 | --- | --- | 4.94 | 0.487 | 103.8 | 109.9 | 14.2 | 0.166 |
| 4-2580 | 4-2940 | 0.311 | 7.9 | -56.2 | -11.98 | 1.191 | 86.7 | 0.444 | 1.817 | 10.9 | 166.3 | --- | --- | 5.78 | 0.479 | 100.4 | 106.5 | 17.8 | 0.155 |
| 4-2580 | 4-2960 | 0.329 | 12.9 | -59.1 | -13.33 | 1.189 | 86.8 | 0.440 | 1.803 | 10.6 | 170.6 | --- | --- | 7.03 | 0.473 | 97.3 | 102.8 | 22.4 | 0.151 |
| 4-2580 | 4-2980 | 0.358 | 21.0 | -62.7 | -15.42 | 1.188 | 87.0 | 0.437 | 1.796 | 10.0 | 174.5 | --- | --- | 9.03 | 0.470 | 94.3 | 98.9 | 28.4 | 0.154 |
| 4-2580 | 4-3000 | 0.416 | 36.1 | -67.1 | -19.17 | 1.188 | 87.2 | 0.435 | 1.792 | 9.2 | 178.1 | --- | --- | 12.68 | 0.469 | 91.4 | 95.5 | 36.6 | 0.173 |
| 4-2580 | 4-3020 | 0.560 | 70.8 | -71.0 | -27.87 | 1.188 | 87.5 | 0.435 | 1.792 | 8.2 | 181.6 | --- | 2.571 | 21.28 | 0.469 | 88.8 | 93.1 | 47.0 | 0.233 |
| 4-2580 | 4-3040 | 1.146 | 136.8 | -57.6 | -62.88 | 1.188 | 87.6 | 0.435 | 1.794 | 7.9 | 185.0 | --- | 2.576 | 56.19 | 0.471 | 86.2 | 95.8 | 49.3 | 0.515 |
| 4-2580 | 4-3060 | 0.633 | 274.2 | 64.6 | 32.18 | 1.189 | 88.8 | 0.435 | 1.798 | 3.9 | 187.7 | --- | 2.582 | -38.96 | 0.473 | 84.1 | 95.8 | -51.8 | 0.377 |
| 4-2580 | 4-3080 | 0.289 | 327.6 | 41.7 | 10.77 | 1.189 | 89.2 | 0.437 | 1.804 | 2.7 | 190.7 | --- | 2.593 | -17.65 | 0.477 | 81.9 | 90.7 | -42.5 | 0.212 |
| 4-2580 | 4-3100 | 0.221 | 344.9 | 19.2 | 4.25 | 1.190 | 89.7 | 0.439 | 1.811 | 1.1 | 193.5 | --- | 2.606 | -11.23 | 0.481 | 79.9 | 88.8 | -31.9 | 0.175 |
| 4-2580 | 4-3120 | 0.208 | 355.0 | 5.1 | 1.16 | 1.191 | 90.3 | 0.441 | 1.819 | 359.2 | 556.2 | 1.016 | 2.622 | -8.23 | 0.487 | 78.0 | 88.5 | -24.4 | 0.165 |
| 4-2580 | 4-3140 | 0.210 | 2.5 | -3.0 | -0.66 | 1.192 | 90.9 | 0.444 | 1.828 | 357.1 | 558.7 | 1.016 | 2.639 | -6.52 | 0.493 | 76.2 | 89.0 | -19.2 | 0.165 |
| 4-2580 | 4-3160 | 0.215 | 8.7 | -7.5 | -1.86 | 1.193 | 91.6 | 0.448 | 1.837 | 354.8 | 561.2 | 1.015 | 2.659 | -5.41 | 0.499 | 74.5 | 90.1 | -15.7 | 0.168 |
| 4-2580 | 4-3180 | 0.222 | 14.3 | -10.0 | -2.73 | 1.195 | 92.4 | 0.451 | 1.846 | 352.4 | 563.5 | 1.013 | 2.680 | -4.65 | 0.506 | 72.9 | 91.7 | -13.1 | 0.173 |
| 4-2580 | 4-3200 | 0.231 | 19.3 | -11.2 | -3.40 | 1.196 | 93.2 | 0.455 | 1.857 | 349.9 | 565.8 | 1.011 | 2.702 | -4.10 | 0.513 | 71.4 | 93.8 | -11.1 | 0.180 |
| 4-2580 | 4-3220 | 0.240 | 24.1 | -11.5 | -3.93 | 1.197 | 94.0 | 0.460 | 1.867 | 347.2 | 568.0 | 1.008 | 2.726 | -3.68 | 0.521 | 70.0 | 96.2 | -9.6 | 0.187 |
| 4-2580 | 4-3240 | 0.250 | 28.6 | -11.1 | -4.37 | 1.198 | 95.0 | 0.465 | 1.878 | 344.4 | 570.1 | 1.004 | 2.751 | -3.35 | 0.529 | 68.7 | 99.0 | -8.5 | 0.196 |
| 4-2580 | 4-3260 | 0.262 | 32.8 | -10.4 | -4.75 | 1.200 | 95.9 | 0.471 | 1.888 | 341.4 | 572.1 | 0.999 | 2.778 | -3.10 | 0.537 | 67.4 | 102.0 | -7.5 | 0.205 |
| 4-2580 | 4-3280 | 0.275 | 36.9 | -9.3 | -5.08 | 1.201 | 97.0 | 0.478 | 1.900 | 338.2 | 574.0 | 0.992 | 2.807 | -2.90 | 0.545 | 66.2 | 105.3 | -6.8 | 0.215 |
| 4-2590 | 4-2710 | 0.561 | 12.5 | -15.8 | -7.04 | 1.524 | 90.2 | 1.361 | -2.820 | 359.6 | 450.4 | 1.017 | --- | 1.26 | 1.087 | 143.9 | 112.0 | 1.0 | 0.824 |
| 4-2590 | 4-2730 | 0.462 | 10.3 | -20.2 | -7.15 | 1.421 | 89.0 | 1.056 | 18.949 | 2.0 | 97.9 | --- | --- | 1.26 | 0.934 | 140.7 | 113.6 | 1.1 | 0.672 |
| 4-2590 | 4-2750 | 0.398 | 7.2 | -24.7 | -7.26 | 1.352 | 87.8 | 0.858 | 7.146 | 4.8 | 105.7 | --- | --- | 1.28 | 0.821 | 137.1 | 115.0 | 1.3 | 0.556 |
| 4-2590 | 4-2770 | 0.357 | 3.8 | -29.1 | -7.38 | 1.303 | 86.7 | 0.728 | 3.725 | 7.8 | 113.7 | --- | --- | 1.31 | 0.735 | 133.3 | 116.2 | 1.5 | 0.465 |
| 4-2590 | 4-2790 | 0.330 | 0.2 | -33.0 | -7.50 | 1.269 | 85.8 | 0.640 | 2.805 | 10.7 | 121.5 | --- | --- | 1.35 | 0.669 | 129.4 | 117.0 | 1.8 | 0.393 |
| 4-2590 | 4-2810 | 0.314 | 356.8 | -36.3 | -7.62 | 1.245 | 85.1 | 0.579 | 2.392 | 13.4 | 129.1 | --- | --- | 1.39 | 0.617 | 125.3 | 117.5 | 2.1 | 0.335 |
| 4-2590 | 4-2830 | 0.303 | 353.9 | -39.0 | -7.76 | 1.227 | 84.5 | 0.537 | 2.166 | 15.8 | 136.2 | --- | --- | 1.46 | 0.577 | 121.2 | 117.5 | 2.5 | 0.287 |
| 4-2590 | 4-2850 | 0.297 | 351.7 | -41.1 | -7.91 | 1.214 | 84.1 | 0.507 | 2.029 | 17.6 | 142.8 | --- | --- | 1.54 | 0.546 | 117.2 | 116.9 | 3.0 | 0.248 |
| 4-2590 | 4-2870 | 0.293 | 350.2 | -42.9 | -8.07 | 1.205 | 83.8 | 0.486 | 1.942 | 19.0 | 148.9 | --- | --- | 1.64 | 0.522 | 113.3 | 115.7 | 3.6 | 0.217 |
| 4-2590 | 4-2890 | 0.290 | 349.4 | -44.4 | -8.26 | 1.199 | 83.6 | 0.471 | 1.883 | 19.9 | 154.5 | --- | --- | 1.76 | 0.504 | 109.4 | 113.9 | 4.4 | 0.191 |
| 4-2590 | 4-2910 | 0.289 | 349.3 | -45.7 | -8.48 | 1.194 | 83.6 | 0.460 | 1.845 | 20.4 | 159.6 | --- | --- | 1.92 | 0.490 | 105.7 | 111.4 | 5.3 | 0.171 |
| 4-2590 | 4-2930 | 0.289 | 349.9 | -46.8 | -8.74 | 1.191 | 83.6 | 0.452 | 1.819 | 20.5 | 164.3 | --- | --- | 2.13 | 0.480 | 102.2 | 108.3 | 6.4 | 0.155 |
| 4-2590 | 4-2950 | 0.290 | 351.1 | -48.0 | -9.06 | 1.189 | 83.8 | 0.447 | 1.802 | 20.3 | 168.6 | --- | --- | 2.40 | 0.474 | 98.9 | 104.9 | 7.8 | 0.144 |
| 4-2590 | 4-2970 | 0.292 | 353.2 | -49.2 | -9.48 | 1.187 | 84.0 | 0.443 | 1.793 | 19.7 | 172.6 | --- | --- | 2.78 | 0.469 | 95.8 | 101.2 | 9.4 | 0.137 |
| 4-2590 | 4-2990 | 0.297 | 356.0 | -50.9 | -10.05 | 1.187 | 84.2 | 0.441 | 1.788 | 18.9 | 176.4 | --- | --- | 3.28 | 0.467 | 92.9 | 97.6 | 11.5 | 0.134 |
| 4-2590 | 4-3010 | 0.305 | 360.0 | -53.0 | -10.90 | 1.186 | 84.6 | 0.439 | 1.786 | 17.8 | 179.9 | --- | --- | 4.08 | 0.467 | 90.1 | 94.4 | 14.4 | 0.134 |
| 4-2590 | 4-3030 | 0.321 | 5.8 | -56.1 | -12.29 | 1.187 | 85.0 | 0.439 | 1.788 | 16.6 | 183.1 | --- | 2.573 | 5.42 | 0.468 | 87.6 | 91.7 | 18.7 | 0.138 |
| 4-2590 | 4-3050 | 0.359 | 16.2 | -61.4 | -15.09 | 1.187 | 85.4 | 0.439 | 1.792 | 15.1 | 188.2 | --- | 2.578 | 8.17 | 0.470 | 85.2 | 90.0 | 26.2 | 0.151 |
| 4-2590 | 4-3070 | 0.493 | 48.0 | -71.0 | -23.63 | 1.188 | 85.9 | 0.439 | 1.798 | 13.6 | 189.2 | --- | 2.587 | 16.65 | 0.474 | 82.9 | 90.5 | 41.4 | 0.204 |
| 4-2590 | 4-3090 | 1.184 | 227.2 | 53.3 | 65.22 | 1.189 | 86.8 | 0.439 | 1.804 | 10.5 | 191.8 | --- | 2.597 | -72.25 | 0.478 | 81.0 | 104.3 | -44.5 | 0.642 |
| 4-2590 | 4-3110 | 0.250 | 334.0 | 27.3 | 6.95 | 1.190 | 87.1 | 0.441 | 1.812 | 9.5 | 194.6 | --- | 2.612 | -14.03 | 0.483 | 79.0 | 90.2 | -36.4 | 0.194 |
| 4-2590 | 4-3130 | 0.211 | 351.8 | -1.8 | 0.29 | 1.191 | 87.7 | 0.443 | 1.821 | 7.5 | 197.2 | --- | 2.628 | -7.42 | 0.489 | 77.2 | 89.1 | -22.0 | 0.165 |
| 4-2590 | 4-3150 | 0.214 | 0.7 | -12.8 | -2.14 | 1.192 | 88.4 | 0.445 | 1.831 | 5.3 | 199.7 | --- | 2.646 | -5.04 | 0.495 | 75.5 | 89.8 | -15.0 | 0.163 |
| 4-2590 | 4-3170 | 0.220 | 7.3 | -17.4 | -3.41 | 1.193 | 89.1 | 0.448 | 1.841 | 2.9 | 202.1 | --- | 2.665 | -3.83 | 0.502 | 73.9 | 91.2 | -11.2 | 0.166 |
| 4-2590 | 4-3190 | 0.225 | 13.0 | -19.3 | -4.19 | 1.195 | 89.9 | 0.451 | 1.851 | 0.5 | 204.5 | --- | 2.685 | -3.09 | 0.509 | 72.4 | 93.0 | -8.8 | 0.172 |
| 4-2590 | 4-3210 | 0.231 | 18.2 | -19.8 | -4.74 | 1.196 | 90.7 | 0.454 | 1.862 | 357.9 | 566.7 | 1.018 | 2.707 | -2.61 | 0.517 | 71.1 | 95.3 | -7.1 | 0.179 |
| 4-2590 | 4-3230 | 0.237 | 23.1 | -19.4 | -5.14 | 1.197 | 91.5 | 0.458 | 1.873 | 355.1 | 568.9 | 1.015 | 2.730 | -2.26 | 0.525 | 69.8 | 97.9 | -6.0 | 0.186 |
| 4-2590 | 4-3250 | 0.244 | 27.9 | -18.5 | -5.45 | 1.199 | 92.5 | 0.462 | 1.884 | 352.2 | 570.9 | 1.014 | 2.754 | -2.01 | 0.533 | 68.5 | 100.8 | -5.1 | 0.194 |
| 4-2590 | 4-3270 | 0.251 | 32.5 | -17.1 | -5.71 | 1.200 | 93.4 | 0.467 | 1.895 | 349.2 | 573.0 | 1.011 | 2.780 | -1.82 | 0.541 | 67.4 | 103.9 | -4.5 | 0.203 |
| 4-2590 | 4-3290 | 0.260 | 37.0 | -15.5 | -5.92 | 1.201 | 94.5 | 0.472 | 1.907 | 346.0 | 574.9 | 1.007 | 2.806 | -1.67 | 0.550 | 66.2 | 107.3 | -4.0 | 0.212 |
| 4-2600 | 4-2720 | 0.539 | 7.0 | -18.8 | -7.12 | 1.490 | 85.0 | 1.254 | -3.970 | 9.0 | 92.9 | --- | --- | 0.08 | 1.037 | 143.2 | 113.4 | 0.1 | 0.777 |
| 4-2600 | 4-2740 | 0.454 | 3.3 | -23.0 | -7.13 | 1.395 | 84.1 | 0.980 | 50.581 | 12.0 | 101.0 | --- | --- | 0.08 | 0.893 | 139.8 | 114.7 | 0.1 | 0.633 |
| 4-2600 | 4-2760 | 0.400 | 359.1 | -27.0 | -7.14 | 1.332 | 83.1 | 0.806 | 5.166 | 15.4 | 109.3 | --- | --- | 0.08 | 0.786 | 136.1 | 115.8 | 0.1 | 0.523 |
| 4-2600 | 4-2780 | 0.367 | 354.7 | -30.4 | -7.14 | 1.288 | 82.3 | 0.693 | 3.236 | 18.8 | 117.7 | --- | --- | 0.08 | 0.705 | 132.1 | 116.6 | 0.1 | 0.438 |
| 4-2600 | 4-2800 | 0.346 | 350.6 | -33.1 | -7.15 | 1.257 | 81.7 | 0.617 | 2.578 | 21.9 | 125.7 | --- | --- | 0.08 | 0.643 | 128.0 | 117.1 | 0.1 | 0.370 |
| 4-2600 | 4-2820 | 0.333 | 347.2 | -35.2 | -7.16 | 1.235 | 81.1 | 0.565 | 2.259 | 24.7 | 133.3 | --- | --- | 0.08 | 0.595 | 123.9 | 117.2 | 0.1 | 0.315 |
| 4-2600 | 4-2840 | 0.325 | 344.4 | -36.7 | -7.17 | 1.219 | 80.7 | 0.529 | 2.078 | 27.0 | 140.3 | --- | --- | 0.09 | 0.558 | 119.7 | 116.7 | 0.2 | 0.271 |
| 4-2600 | 4-2860 | 0.319 | 342.4 | -37.8 | -7.17 | 1.208 | 80.5 | 0.504 | 1.966 | 28.6 | 146.7 | --- | --- | 0.09 | 0.530 | 115.6 | 115.7 | 0.2 | 0.235 |
| 4-2600 | 4-2880 | 0.314 | 341.0 | -38.6 | -7.18 | 1.200 | 80.3 | 0.486 | 1.894 | 29.8 | 152.6 | --- | --- | 0.10 | 0.508 | 111.5 | 114.0 | 0.2 | 0.206 |
| 4-2600 | 4-2900 | 0.310 | 340.3 | -39.1 | -7.19 | 1.194 | 80.3 | 0.474 | 1.847 | 30.5 | 157.9 | --- | --- | 0.10 | 0.492 | 107.7 | 111.7 | 0.3 | 0.182 |
| 4-2600 | 4-2920 | 0.307 | 340.2 | -39.5 | -7.20 | 1.190 | 80.4 | 0.465 | 1.816 | 30.7 | 162.7 | --- | --- | 0.11 | 0.480 | 104.0 | 108.8 | 0.3 | 0.164 |
| 4-2600 | 4-2940 | 0.303 | 340.6 | -39.8 | -7.22 | 1.188 | 80.5 | 0.459 | 1.796 | 30.5 | 167.1 | --- | --- | 0.12 | 0.472 | 100.5 | 105.4 | 0.4 | 0.151 |
| 4-2600 | 4-2960 | 0.300 | 341.4 | -39.9 | -7.23 | 1.186 | 80.7 | 0.454 | 1.784 | 30.0 | 171.2 | --- | --- | 0.13 | 0.467 | 97.2 | 101.9 | 0.4 | 0.142 |
| 4-2600 | 4-2980 | 0.296 | 342.6 | -40.0 | -7.25 | 1.185 | 81.0 | 0.451 | 1.778 | 29.2 | 175.0 | --- | --- | 0.14 | 0.464 | 94.1 | 98.3 | 0.5 | 0.136 |
| 4-2600 | 4-3000 | 0.293 | 344.2 | -40.0 | -7.27 | 1.185 | 81.4 | 0.448 | 1.776 | 28.1 | 178.5 | --- | --- | 0.16 | 0.463 | 91.2 | 95.0 | 0.6 | 0.132 |
| 4-2600 | 4-3020 | 0.289 | 346.1 | -40.0 | -7.30 | 1.185 | 81.8 | 0.447 | 1.777 | 26.9 | 181.8 | --- | 2.572 | 0.19 | 0.464 | 88.6 | 92.2 | 0.7 | 0.132 |
| 4-2600 | 4-3040 | 0.285 | 348.3 | -39.9 | -7.35 | 1.186 | 82.2 | 0.446 | 1.781 | 25.4 | 184.9 | --- | 2.578 | 0.23 | 0.466 | 86.1 | 90.0 | 0.8 | 0.133 |
| 4-2600 | 4-3060 | 0.282 | 350.9 | -39.8 | -7.41 | 1.186 | 82.7 | 0.446 | 1.787 | 23.8 | 187.8 | --- | 2.583 | 0.29 | 0.469 | 83.8 | 88.5 | 1.0 | 0.135 |
| 4-2600 | 4-3080 | 0.279 | 353.8 | -39.8 | -7.53 | 1.187 | 83.3 | 0.446 | 1.794 | 22.0 | 190.6 | --- | 2.594 | 0.41 | 0.474 | 81.7 | 87.7 | 1.4 | 0.139 |
| 4-2600 | 4-3100 | 0.278 | 357.4 | -40.2 | -7.81 | 1.188 | 83.8 | 0.446 | 1.802 | 20.1 | 193.3 | --- | 2.606 | 0.68 | 0.479 | 79.7 | 87.6 | 2.2 | 0.144 |
| 4-2600 | 4-3120 | 0.290 | 3.8 | -44.4 | -9.33 | 1.190 | 84.5 | 0.447 | 1.811 | 18.0 | 195.9 | --- | 2.621 | 2.19 | 0.484 | 77.9 | 88.0 | 6.9 | 0.150 |
| 4-2600 | 4-3140 | 0.249 | 359.0 | -29.5 | -5.36 | 1.191 | 85.1 | 0.448 | 1.821 | 15.8 | 198.4 | --- | 2.637 | -1.77 | 0.491 | 76.2 | 88.9 | -5.5 | 0.155 |
| 4-2600 | 4-3160 | 0.255 | 5.0 | -33.0 | -6.51 | 1.192 | 85.8 | 0.450 | 1.832 | 13.5 | 200.8 | --- | 2.655 | -0.63 | 0.497 | 74.6 | 90.3 | -1.9 | 0.160 |
| 4-2600 | 4-3180 | 0.254 | 9.4 | -32.8 | -6.76 | 1.193 | 86.6 | 0.451 | 1.842 | 11.0 | 203.1 | --- | 2.674 | -0.38 | 0.505 | 73.1 | 92.1 | -1.1 | 0.167 |
| 4-2600 | 4-3200 | 0.253 | 13.7 | -31.8 | -6.87 | 1.195 | 87.4 | 0.453 | 1.854 | 8.5 | 205.4 | --- | 2.694 | -0.28 | 0.512 | 71.8 | 94.2 | -0.8 | 0.173 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2600 | 4-3220 | 0.252 | 18.0 | -30.5 | -6.93 | 1.196 | 88.2 | 0.456 | 1.865 | 5.8 | 207.6 | --- | 2.715 | -0.22 | 0.520 | 70.5 | 96.7 | -0.6 | 0.180 |
| 4-2600 | 4-3240 | 0.252 | 22.4 | -28.9 | -6.97 | 1.198 | 89.1 | 0.458 | 1.877 | 3.0 | 209.7 | --- | 2.737 | -0.18 | 0.528 | 69.3 | 99.5 | -0.5 | 0.188 |
| 4-2600 | 4-3260 | 0.253 | 26.9 | -27.0 | -7.00 | 1.199 | 90.0 | 0.462 | 1.889 | 0.1 | 211.8 | --- | 2.760 | -0.15 | 0.537 | 68.2 | 102.5 | -0.4 | 0.196 |
| 4-2600 | 4-3280 | 0.255 | 31.5 | -24.9 | -7.02 | 1.200 | 91.0 | 0.465 | 1.901 | 357.0 | 573.8 | 1.014 | 2.785 | -0.13 | 0.546 | 67.1 | 105.8 | -0.3 | 0.204 |
| 4-2600 | 4-3300 | 0.259 | 36.1 | -22.6 | -7.04 | 1.202 | 92.0 | 0.469 | 1.913 | 353.8 | 575.7 | 1.015 | 2.810 | -0.12 | 0.554 | 66.1 | 109.3 | -0.3 | 0.213 |
| 4-2610 | 4-2730 | 0.543 | 0.2 | -21.3 | -7.30 | 1.454 | 79.4 | 1.145 | -6.794 | 19.8 | 96.8 | --- | --- | -1.13 | 0.983 | 142.7 | 114.1 | -0.9 | 0.731 |
| 4-2610 | 4-2750 | 0.471 | 355.5 | -24.9 | -7.20 | 1.368 | 78.8 | 0.907 | 10.516 | 23.5 | 105.5 | --- | --- | -1.11 | 0.848 | 139.1 | 115.1 | -1.0 | 0.595 |
| 4-2610 | 4-2770 | 0.427 | 350.8 | -27.8 | -7.11 | 1.311 | 78.2 | 0.758 | 4.004 | 27.3 | 114.3 | --- | --- | -1.10 | 0.747 | 135.1 | 115.8 | -1.2 | 0.492 |
| 4-2610 | 4-2790 | 0.400 | 346.5 | -30.1 | -7.01 | 1.271 | 77.7 | 0.662 | 2.840 | 31.0 | 122.9 | --- | --- | -1.10 | 0.672 | 131.0 | 116.3 | -1.4 | 0.412 |
| 4-2610 | 4-2810 | 0.383 | 342.9 | -31.6 | -6.92 | 1.243 | 77.3 | 0.599 | 2.371 | 34.3 | 131.0 | --- | --- | -1.11 | 0.614 | 126.7 | 116.3 | -1.6 | 0.348 |
| 4-2610 | 4-2830 | 0.372 | 340.0 | -32.7 | -6.82 | 1.224 | 77.0 | 0.557 | 2.129 | 36.9 | 138.4 | --- | --- | -1.12 | 0.570 | 122.3 | 115.8 | -1.8 | 0.297 |
| 4-2610 | 4-2850 | 0.363 | 337.9 | -33.4 | -6.73 | 1.210 | 76.8 | 0.528 | 1.987 | 38.9 | 145.1 | --- | --- | -1.15 | 0.536 | 118.0 | 114.8 | -2.1 | 0.256 |
| 4-2610 | 4-2870 | 0.357 | 336.5 | -33.7 | -6.63 | 1.201 | 76.7 | 0.507 | 1.899 | 40.3 | 151.2 | --- | --- | -1.18 | 0.511 | 113.8 | 113.2 | -2.5 | 0.223 |
| 4-2610 | 4-2890 | 0.351 | 335.7 | -33.9 | -6.52 | 1.194 | 76.7 | 0.493 | 1.843 | 41.1 | 156.7 | --- | --- | -1.22 | 0.492 | 109.7 | 111.0 | -2.9 | 0.197 |
| 4-2610 | 4-2910 | 0.346 | 335.4 | -33.8 | -6.41 | 1.189 | 76.8 | 0.483 | 1.806 | 41.4 | 161.6 | --- | --- | -1.27 | 0.478 | 105.7 | 108.2 | -3.3 | 0.177 |
| 4-2610 | 4-2930 | 0.341 | 335.4 | -33.7 | -6.28 | 1.186 | 77.0 | 0.475 | 1.783 | 41.2 | 166.1 | --- | --- | -1.34 | 0.469 | 102.0 | 104.9 | -3.8 | 0.162 |
| 4-2610 | 4-2950 | 0.335 | 335.9 | -33.4 | -6.14 | 1.184 | 77.3 | 0.470 | 1.769 | 40.7 | 170.1 | --- | --- | -1.42 | 0.462 | 98.5 | 101.5 | -4.3 | 0.151 |
| 4-2610 | 4-2970 | 0.329 | 336.6 | -32.9 | -5.99 | 1.183 | 77.6 | 0.466 | 1.762 | 39.9 | 173.9 | --- | --- | -1.53 | 0.459 | 95.3 | 98.0 | -4.9 | 0.144 |
| 4-2610 | 4-2990 | 0.323 | 337.6 | -32.3 | -5.80 | 1.183 | 78.0 | 0.463 | 1.760 | 38.8 | 177.4 | --- | --- | -1.66 | 0.458 | 92.2 | 94.7 | -5.4 | 0.140 |
| 4-2610 | 4-3010 | 0.316 | 338.7 | -31.5 | -5.58 | 1.183 | 78.4 | 0.460 | 1.761 | 37.4 | 180.7 | --- | 2.571 | -1.83 | 0.468 | 89.4 | 91.9 | -6.1 | 0.138 |
| 4-2610 | 4-3030 | 0.308 | 340.1 | -30.5 | -5.31 | 1.184 | 78.9 | 0.459 | 1.765 | 36.1 | 183.8 | --- | 2.574 | -2.06 | 0.460 | 86.8 | 89.7 | -6.8 | 0.139 |
| 4-2610 | 4-3050 | 0.300 | 341.5 | -29.0 | -4.96 | 1.184 | 79.4 | 0.458 | 1.771 | 34.4 | 186.7 | --- | 2.581 | -2.36 | 0.463 | 84.4 | 88.2 | -7.7 | 0.141 |
| 4-2610 | 4-3070 | 0.292 | 342.9 | -27.0 | -4.48 | 1.186 | 79.9 | 0.457 | 1.778 | 32.8 | 189.4 | --- | 2.591 | -2.80 | 0.467 | 82.2 | 87.3 | -9.0 | 0.145 |
| 4-2610 | 4-3090 | 0.282 | 344.1 | -24.0 | -3.77 | 1.187 | 80.5 | 0.456 | 1.787 | 30.7 | 192.1 | --- | 2.603 | -3.46 | 0.473 | 80.2 | 87.1 | -10.8 | 0.150 |
| 4-2610 | 4-3110 | 0.271 | 344.7 | -18.9 | -2.61 | 1.188 | 81.1 | 0.456 | 1.797 | 28.6 | 194.7 | --- | 2.617 | -4.57 | 0.478 | 78.3 | 87.6 | -13.8 | 0.156 |
| 4-2610 | 4-3130 | 0.259 | 343.3 | -8.6 | -0.30 | 1.189 | 81.8 | 0.456 | 1.808 | 26.4 | 197.1 | --- | 2.632 | -6.83 | 0.485 | 76.6 | 88.8 | -19.5 | 0.168 |
| 4-2610 | 4-3150 | 0.282 | 333.0 | 19.9 | 6.62 | 1.191 | 82.5 | 0.457 | 1.819 | 24.2 | 199.5 | --- | 2.649 | -13.71 | 0.492 | 75.0 | 92.0 | -33.1 | 0.206 |
| 4-2610 | 4-3190 | 0.435 | 29.5 | -62.4 | -10.34 | 1.194 | 84.1 | 0.458 | 1.842 | 19.0 | 204.1 | --- | 2.685 | 12.34 | 0.507 | 72.2 | 95.5 | 29.6 | 0.208 |
| 4-2610 | 4-3210 | 0.343 | 21.2 | -50.4 | -10.33 | 1.195 | 84.9 | 0.459 | 1.854 | 16.4 | 206.3 | --- | 2.705 | 6.38 | 0.515 | 70.9 | 96.2 | 16.6 | 0.189 |
| 4-2610 | 4-3230 | 0.312 | 21.3 | -44.2 | -11.20 | 1.197 | 85.7 | 0.460 | 1.867 | 13.7 | 208.5 | --- | 2.728 | 4.30 | 0.523 | 69.8 | 98.5 | 11.2 | 0.190 |
| 4-2610 | 4-3250 | 0.295 | 23.6 | -39.9 | -10.10 | 1.198 | 86.6 | 0.462 | 1.879 | 10.8 | 210.6 | --- | 2.748 | 3.25 | 0.532 | 68.7 | 101.3 | 8.3 | 0.195 |
| 4-2610 | 4-3270 | 0.285 | 26.8 | -36.4 | -9.42 | 1.200 | 87.5 | 0.464 | 1.892 | 7.8 | 212.6 | --- | 2.770 | 2.62 | 0.541 | 67.6 | 104.4 | 6.5 | 0.201 |
| 4-2610 | 4-3290 | 0.278 | 30.7 | -33.3 | -8.96 | 1.201 | 88.5 | 0.467 | 1.904 | 4.7 | 214.6 | --- | 2.793 | 2.20 | 0.550 | 66.7 | 107.8 | 5.3 | 0.209 |
| 4-2610 | 4-3310 | 0.273 | 34.9 | -30.2 | -8.61 | 1.203 | 89.5 | 0.470 | 1.917 | 1.4 | 216.6 | --- | 2.816 | 1.91 | 0.559 | 65.8 | 111.4 | 4.5 | 0.216 |
| 4-2620 | 4-2740 | 0.575 | 353.3 | -22.8 | -7.59 | 1.419 | 73.6 | 1.040 | 23.272 | 32.2 | 102.2 | --- | --- | -2.39 | 0.927 | 142.5 | 114.0 | -2.0 | 0.688 |
| 4-2620 | 4-2760 | 0.513 | 348.6 | -25.3 | -7.37 | 1.341 | 73.4 | 0.842 | 5.836 | 36.5 | 111.6 | --- | --- | -2.33 | 0.800 | 138.6 | 114.6 | -2.2 | 0.560 |
| 4-2620 | 4-2780 | 0.475 | 344.3 | -27.2 | -7.17 | 1.289 | 73.1 | 0.719 | 3.252 | 40.8 | 120.8 | --- | --- | -2.29 | 0.706 | 134.4 | 115.0 | -2.5 | 0.463 |
| 4-2620 | 4-2800 | 0.452 | 340.8 | -28.4 | -6.97 | 1.254 | 72.8 | 0.642 | 2.518 | 44.5 | 129.4 | --- | --- | -2.26 | 0.636 | 129.9 | 114.9 | -2.8 | 0.388 |
| 4-2620 | 4-2820 | 0.436 | 338.1 | -29.2 | -6.78 | 1.230 | 72.7 | 0.592 | 2.186 | 47.5 | 137.2 | --- | --- | -2.25 | 0.582 | 125.4 | 114.4 | -3.3 | 0.329 |
| 4-2620 | 4-2840 | 0.425 | 336.1 | -29.6 | -6.60 | 1.213 | 72.6 | 0.558 | 2.006 | 49.8 | 144.2 | --- | --- | -2.26 | 0.542 | 120.8 | 113.3 | -3.7 | 0.282 |
| 4-2620 | 4-2860 | 0.416 | 334.8 | -29.7 | -6.41 | 1.201 | 72.6 | 0.535 | 1.898 | 51.3 | 150.5 | --- | --- | -2.28 | 0.512 | 116.3 | 111.7 | -4.3 | 0.244 |
| 4-2620 | 4-2880 | 0.409 | 334.0 | -29.6 | -6.22 | 1.193 | 72.7 | 0.519 | 1.831 | 52.2 | 156.0 | --- | --- | -2.32 | 0.490 | 111.8 | 109.5 | -4.9 | 0.215 |
| 4-2620 | 4-2900 | 0.401 | 333.6 | -29.4 | -6.02 | 1.188 | 72.9 | 0.507 | 1.789 | 52.5 | 161.0 | --- | --- | -2.37 | 0.474 | 107.6 | 106.7 | -5.6 | 0.193 |
| 4-2620 | 4-2920 | 0.394 | 333.6 | -29.1 | -5.81 | 1.184 | 73.2 | 0.498 | 1.763 | 52.4 | 165.4 | --- | --- | -2.45 | 0.463 | 103.6 | 103.6 | -6.3 | 0.175 |
| 4-2620 | 4-2940 | 0.387 | 333.9 | -28.6 | -5.59 | 1.182 | 73.5 | 0.492 | 1.747 | 51.9 | 169.5 | --- | --- | -2.54 | 0.455 | 99.8 | 100.2 | -7.0 | 0.163 |
| 4-2620 | 4-2960 | 0.379 | 334.5 | -28.0 | -5.35 | 1.181 | 73.8 | 0.487 | 1.739 | 51.0 | 173.2 | --- | --- | -2.66 | 0.451 | 96.3 | 96.8 | -7.7 | 0.155 |
| 4-2620 | 4-2980 | 0.372 | 335.2 | -27.2 | -5.09 | 1.180 | 74.3 | 0.483 | 1.737 | 49.9 | 176.7 | --- | --- | -2.81 | 0.450 | 93.1 | 93.7 | -8.4 | 0.150 |
| 4-2620 | 4-3000 | 0.363 | 336.1 | -26.3 | -4.79 | 1.181 | 74.7 | 0.480 | 1.738 | 48.5 | 179.9 | --- | --- | -3.00 | 0.450 | 90.1 | 91.0 | -9.2 | 0.148 |
| 4-2620 | 4-3020 | 0.354 | 337.1 | -25.2 | -4.45 | 1.181 | 75.3 | 0.477 | 1.743 | 47.0 | 182.9 | --- | 2.574 | -3.23 | 0.452 | 87.4 | 88.9 | -9.9 | 0.148 |
| 4-2620 | 4-3040 | 0.345 | 338.2 | -23.7 | -4.04 | 1.182 | 75.8 | 0.475 | 1.749 | 45.3 | 185.7 | --- | 2.580 | -3.54 | 0.455 | 84.9 | 87.4 | -10.8 | 0.150 |
| 4-2620 | 4-3060 | 0.335 | 339.3 | -21.9 | -3.55 | 1.183 | 76.4 | 0.473 | 1.758 | 43.4 | 188.5 | --- | 2.589 | -3.93 | 0.459 | 82.6 | 86.5 | -11.8 | 0.153 |
| 4-2620 | 4-3080 | 0.325 | 340.3 | -19.6 | -2.93 | 1.185 | 77.0 | 0.471 | 1.767 | 41.4 | 191.1 | --- | 2.601 | -4.45 | 0.465 | 80.4 | 86.3 | -13.1 | 0.157 |
| 4-2620 | 4-3100 | 0.315 | 341.2 | -16.3 | -2.10 | 1.186 | 77.7 | 0.470 | 1.778 | 39.3 | 193.6 | --- | 2.614 | -5.18 | 0.471 | 78.5 | 86.7 | -14.8 | 0.163 |
| 4-2620 | 4-3120 | 0.304 | 341.7 | -11.6 | -0.94 | 1.188 | 78.3 | 0.469 | 1.790 | 37.1 | 196.0 | --- | 2.629 | -6.25 | 0.477 | 76.7 | 87.6 | -17.3 | 0.170 |
| 4-2620 | 4-3140 | 0.296 | 341.2 | -4.3 | 0.85 | 1.189 | 79.1 | 0.469 | 1.802 | 34.9 | 198.4 | --- | 2.646 | -7.95 | 0.485 | 75.1 | 89.2 | -21.0 | 0.181 |
| 4-2620 | 4-3160 | 0.297 | 338.2 | 8.3 | 4.04 | 1.191 | 79.8 | 0.468 | 1.814 | 32.5 | 200.7 | --- | 2.664 | -11.03 | 0.492 | 73.6 | 91.7 | -27.0 | 0.199 |
| 4-2620 | 4-3180 | 0.350 | 326.8 | 31.0 | 11.32 | 1.192 | 80.5 | 0.468 | 1.827 | 30.1 | 202.9 | --- | 2.682 | -18.23 | 0.500 | 72.2 | 96.5 | -37.4 | 0.245 |
| 4-2620 | 4-3200 | 0.805 | 272.5 | 51.2 | 41.17 | 1.194 | 81.1 | 0.469 | 1.840 | 28.2 | 205.2 | --- | 2.703 | -47.98 | 0.508 | 70.9 | 114.1 | -48.4 | 0.478 |
| 4-2620 | 4-3220 | 0.866 | 104.9 | -80.6 | -45.02 | 1.196 | 82.6 | 0.466 | 1.853 | 23.5 | 207.2 | --- | 2.718 | 38.30 | 0.517 | 70.0 | 112.9 | 48.1 | 0.405 |
| 4-2620 | 4-3240 | 0.496 | 36.1 | -64.4 | -22.78 | 1.197 | 83.3 | 0.468 | 1.867 | 21.2 | 209.3 | --- | 2.739 | 16.16 | 0.526 | 68.9 | 103.8 | 33.5 | 0.247 |
| 4-2620 | 4-3260 | 0.397 | 29.6 | -54.0 | -16.57 | 1.199 | 84.2 | 0.469 | 1.880 | 18.4 | 211.4 | --- | 2.761 | 10.05 | 0.535 | 67.9 | 104.5 | 23.0 | 0.222 |
| 4-2620 | 4-3280 | 0.352 | 29.4 | -47.2 | -13.71 | 1.200 | 85.1 | 0.470 | 1.893 | 15.4 | 213.4 | --- | 2.783 | 7.29 | 0.544 | 67.0 | 107.0 | 16.9 | 0.218 |
| 4-2620 | 4-3300 | 0.325 | 31.3 | -42.2 | -12.04 | 1.202 | 86.1 | 0.471 | 1.907 | 12.2 | 215.4 | --- | 2.805 | 5.73 | 0.553 | 66.1 | 110.2 | 13.2 | 0.220 |
| 4-2620 | 4-3320 | 0.308 | 34.3 | -38.0 | -10.94 | 1.204 | 87.1 | 0.473 | 1.920 | 8.9 | 217.3 | --- | 2.829 | 4.74 | 0.562 | 65.3 | 113.8 | 10.8 | 0.225 |
| 4-2630 | 4-2750 | 0.633 | 347.8 | -23.0 | -8.00 | 1.363 | 67.4 | 0.949 | 17.002 | 46.4 | 109.5 | --- | --- | -3.75 | 0.869 | 142.7 | 113.0 | -3.0 | 0.650 |
| 4-2630 | 4-2770 | 0.577 | 343.7 | -24.6 | -7.65 | 1.313 | 67.6 | 0.791 | 4.046 | 51.3 | 119.3 | --- | --- | -3.60 | 0.749 | 138.4 | 113.2 | -3.4 | 0.529 |
| 4-2630 | 4-2790 | 0.542 | 340.4 | -25.6 | -7.33 | 1.267 | 67.6 | 0.695 | 2.734 | 55.5 | 128.5 | --- | --- | -3.50 | 0.662 | 133.8 | 113.0 | -3.8 | 0.438 |
| 4-2630 | 4-2810 | 0.519 | 337.8 | -26.2 | -7.03 | 1.236 | 67.7 | 0.635 | 2.257 | 58.9 | 136.7 | --- | --- | -3.42 | 0.596 | 129.0 | 112.4 | -4.3 | 0.368 |
| 4-2630 | 4-2830 | 0.503 | 336.0 | -26.4 | -6.74 | 1.215 | 67.8 | 0.596 | 2.023 | 61.4 | 144.0 | --- | --- | -3.37 | 0.548 | 124.1 | 111.3 | -4.9 | 0.313 |
| 4-2630 | 4-2850 | 0.490 | 334.9 | -26.4 | -6.46 | 1.201 | 68.0 | 0.570 | 1.891 | 63.1 | 150.3 | --- | --- | -3.35 | 0.512 | 119.2 | 109.6 | -5.5 | 0.271 |
| 4-2630 | 4-2870 | 0.479 | 334.2 | -26.2 | -6.19 | 1.192 | 68.2 | 0.552 | 1.812 | 64.0 | 155.9 | --- | --- | -3.34 | 0.485 | 114.4 | 107.4 | -6.2 | 0.237 |
| 4-2630 | 4-2890 | 0.470 | 333.9 | -25.8 | -5.92 | 1.185 | 68.5 | 0.539 | 1.763 | 64.2 | 160.8 | --- | --- | -3.36 | 0.467 | 109.8 | 104.6 | -7.0 | 0.212 |
| 4-2630 | 4-2910 | 0.460 | 333.9 | -25.4 | -5.64 | 1.181 | 68.9 | 0.529 | 1.734 | 64.0 | 165.3 | --- | --- | -3.41 | 0.454 | 105.4 | 101.6 | -7.8 | 0.193 |
| 4-2630 | 4-2930 | 0.451 | 334.2 | -24.8 | -5.36 | 1.179 | 69.3 | 0.521 | 1.717 | 63.4 | 169.2 | --- | --- | -3.47 | 0.445 | 101.3 | 98.3 | -8.5 | 0.179 |
| 4-2630 | 4-2950 | 0.442 | 334.7 | -24.2 | -5.06 | 1.177 | 69.8 | 0.515 | 1.709 | 62.4 | 172.8 | --- | --- | -3.57 | 0.440 | 97.5 | 95.0 | -9.2 | 0.169 |
| 4-2630 | 4-2970 | 0.433 | 335.3 | -23.4 | -4.75 | 1.177 | 70.3 | 0.510 | 1.706 | 61.2 | 176.2 | --- | --- | -3.69 | 0.438 | 93.9 | 92.1 | -9.9 | 0.163 |
| 4-2630 | 4-2990 | 0.423 | 336.1 | -22.5 | -4.41 | 1.177 | 70.8 | 0.505 | 1.709 | 59.8 | 179.3 | --- | --- | -3.84 | 0.439 | 90.7 | 89.5 | -10.6 | 0.160 |
| 4-2630 | 4-3010 | 0.413 | 336.9 | -21.5 | -4.04 | 1.178 | 71.4 | 0.501 | 1.714 | 58.1 | 182.2 | --- | 2.573 | -4.04 | 0.441 | 87.8 | 87.5 | -11.2 | 0.160 |
| 4-2630 | 4-3030 | 0.402 | 337.8 | -20.2 | -3.63 | 1.179 | 72.0 | 0.498 | 1.722 | 56.3 | 185.0 | --- | 2.579 | -4.28 | 0.444 | 85.1 | 86.1 | -11.9 | 0.161 |
| 4-2630 | 4-3050 | 0.392 | 338.8 | -18.7 | -3.16 | 1.181 | 72.6 | 0.495 | 1.731 | 54.4 | 187.6 | --- | 2.588 | -4.59 | 0.449 | 82.7 | 85.3 | -12.6 | 0.163 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2630 | 4-3070 | 0.381 | 339.8 | -16.9 | -2.62 | 1.182 | 73.3 | 0.492 | 1.742 | 52.4 | 190.1 | --- | 2.600 | -4.97 | 0.455 | 80.5 | 85.1 | -13.5 | 0.167 |
| 4-2630 | 4-3090 | 0.369 | 340.7 | -14.7 | -1.96 | 1.184 | 74.0 | 0.490 | 1.754 | 50.2 | 192.6 | --- | 2.614 | -5.48 | 0.461 | 78.5 | 85.5 | -14.6 | 0.171 |
| 4-2630 | 4-3110 | 0.358 | 341.5 | -11.8 | -1.15 | 1.186 | 74.7 | 0.488 | 1.767 | 47.9 | 194.9 | --- | 2.629 | -6.14 | 0.468 | 76.6 | 86.4 | -16.0 | 0.177 |
| 4-2630 | 4-3130 | 0.347 | 342.0 | -8.0 | -0.10 | 1.187 | 75.5 | 0.486 | 1.780 | 45.6 | 197.2 | --- | 2.645 | -7.04 | 0.476 | 75.0 | 87.8 | -17.9 | 0.184 |
| 4-2630 | 4-3150 | 0.338 | 342.0 | -2.7 | 1.33 | 1.189 | 76.2 | 0.484 | 1.794 | 43.2 | 199.5 | --- | 2.662 | -8.33 | 0.484 | 73.5 | 89.7 | -20.4 | 0.192 |
| 4-2630 | 4-3170 | 0.333 | 340.9 | 5.0 | 3.43 | 1.191 | 77.0 | 0.483 | 1.808 | 40.7 | 201.7 | --- | 2.681 | -10.29 | 0.492 | 72.1 | 92.2 | -24.1 | 0.205 |
| 4-2630 | 4-3190 | 0.342 | 337.3 | 16.6 | 6.89 | 1.193 | 77.8 | 0.482 | 1.822 | 38.2 | 203.8 | --- | 2.700 | -13.60 | 0.501 | 70.8 | 95.5 | -29.5 | 0.226 |
| 4-2630 | 4-3210 | 0.399 | 326.7 | 33.9 | 13.67 | 1.195 | 78.6 | 0.481 | 1.836 | 35.7 | 206.0 | --- | 2.719 | -20.24 | 0.510 | 69.6 | 101.0 | -37.7 | 0.270 |
| 4-2630 | 4-3230 | 0.667 | 292.1 | 49.7 | 32.14 | 1.196 | 79.3 | 0.481 | 1.850 | 33.5 | 208.1 | --- | 2.741 | -38.57 | 0.519 | 68.5 | 113.8 | -46.9 | 0.412 |
| 4-2630 | 4-3270 | 0.722 | 54.6 | -76.1 | -36.06 | 1.200 | 81.9 | 0.477 | 1.879 | 25.3 | 212.1 | --- | 2.775 | 29.92 | 0.537 | 67.0 | 116.1 | 44.1 | 0.354 |
| 4-2630 | 4-3290 | 0.506 | 37.4 | -61.8 | -23.08 | 1.201 | 82.7 | 0.478 | 1.893 | 22.6 | 214.1 | --- | 2.798 | 17.10 | 0.547 | 66.1 | 112.4 | 32.8 | 0.271 |
| 4-2630 | 4-3310 | 0.419 | 34.7 | -52.8 | -17.69 | 1.203 | 83.7 | 0.478 | 1.908 | 19.6 | 216.0 | --- | 2.820 | 11.86 | 0.556 | 65.4 | 113.9 | 24.6 | 0.249 |
| 4-2630 | 4-3330 | 0.371 | 35.4 | -46.3 | -14.75 | 1.205 | 84.7 | 0.479 | 1.922 | 16.3 | 218.0 | --- | 2.843 | 9.08 | 0.566 | 64.7 | 116.8 | 19.3 | 0.245 |
| 4-2640 | 4-2760 | 0.712 | 344.2 | -22.3 | -8.59 | 1.348 | 60.9 | 0.882 | 6.390 | 62.6 | 118.6 | --- | --- | -5.24 | 0.809 | 143.3 | 111.1 | -4.1 | 0.618 |
| 4-2640 | 4-2780 | 0.658 | 341.1 | -23.1 | -8.08 | 1.286 | 61.5 | 0.761 | 3.116 | 67.4 | 128.3 | --- | --- | -4.97 | 0.696 | 138.5 | 110.8 | -4.5 | 0.504 |
| 4-2640 | 4-2800 | 0.623 | 338.8 | -23.5 | -7.62 | 1.246 | 61.9 | 0.690 | 2.363 | 71.1 | 136.9 | --- | --- | -4.76 | 0.615 | 133.5 | 110.0 | -5.1 | 0.419 |
| 4-2640 | 4-2820 | 0.598 | 337.2 | -23.6 | -7.19 | 1.219 | 62.3 | 0.644 | 2.045 | 73.7 | 144.4 | --- | --- | -4.60 | 0.555 | 128.3 | 108.8 | -5.7 | 0.354 |
| 4-2640 | 4-2840 | 0.579 | 336.2 | -23.5 | -6.80 | 1.201 | 62.8 | 0.615 | 1.880 | 75.4 | 150.8 | --- | --- | -4.49 | 0.511 | 122.9 | 107.1 | -6.3 | 0.304 |
| 4-2640 | 4-2860 | 0.564 | 335.6 | -23.2 | -6.42 | 1.190 | 63.2 | 0.594 | 1.786 | 76.2 | 156.3 | --- | --- | -4.41 | 0.479 | 117.6 | 104.8 | -7.1 | 0.265 |
| 4-2640 | 4-2880 | 0.551 | 335.4 | -22.8 | -6.06 | 1.182 | 63.7 | 0.579 | 1.731 | 76.4 | 161.1 | --- | --- | -4.36 | 0.456 | 112.5 | 102.1 | -7.8 | 0.236 |
| 4-2640 | 4-2900 | 0.538 | 335.5 | -22.3 | -5.71 | 1.177 | 64.2 | 0.567 | 1.698 | 76.0 | 165.4 | --- | --- | -4.34 | 0.441 | 107.6 | 99.1 | -8.5 | 0.214 |
| 4-2640 | 4-2920 | 0.527 | 335.8 | -21.7 | -5.36 | 1.174 | 64.7 | 0.558 | 1.679 | 75.3 | 169.2 | --- | --- | -4.35 | 0.431 | 103.0 | 96.0 | -9.3 | 0.198 |
| 4-2640 | 4-2940 | 0.515 | 336.3 | -21.1 | -5.01 | 1.173 | 65.3 | 0.550 | 1.671 | 74.1 | 172.7 | --- | --- | -4.39 | 0.426 | 98.7 | 92.9 | -9.9 | 0.187 |
| 4-2640 | 4-2960 | 0.504 | 336.9 | -20.3 | -4.65 | 1.173 | 65.9 | 0.544 | 1.669 | 72.8 | 175.9 | --- | --- | -4.46 | 0.424 | 94.8 | 90.1 | -10.5 | 0.180 |
| 4-2640 | 4-2980 | 0.492 | 337.6 | -19.5 | -4.27 | 1.173 | 66.5 | 0.538 | 1.672 | 71.2 | 178.9 | --- | --- | -4.56 | 0.424 | 91.3 | 87.7 | -11.0 | 0.176 |
| 4-2640 | 4-3000 | 0.480 | 338.4 | -18.5 | -3.88 | 1.174 | 67.2 | 0.533 | 1.679 | 69.4 | 181.7 | --- | 2.573 | -4.69 | 0.427 | 88.1 | 85.8 | -11.5 | 0.174 |
| 4-2640 | 4-3020 | 0.469 | 339.3 | -17.4 | -3.47 | 1.176 | 67.9 | 0.528 | 1.688 | 67.5 | 184.3 | --- | 2.579 | -4.87 | 0.431 | 85.2 | 84.6 | -12.0 | 0.174 |
| 4-2640 | 4-3040 | 0.456 | 340.2 | -16.2 | -3.01 | 1.177 | 68.6 | 0.524 | 1.699 | 65.5 | 186.8 | --- | 2.588 | -5.09 | 0.436 | 82.6 | 83.9 | -12.6 | 0.176 |
| 4-2640 | 4-3060 | 0.444 | 341.1 | -14.8 | -2.51 | 1.179 | 69.4 | 0.520 | 1.711 | 63.4 | 189.3 | --- | 2.600 | -5.36 | 0.442 | 80.3 | 83.8 | -13.2 | 0.179 |
| 4-2640 | 4-3080 | 0.432 | 342.0 | -13.1 | -1.95 | 1.181 | 70.1 | 0.516 | 1.724 | 61.1 | 191.6 | --- | 2.614 | -5.71 | 0.449 | 78.1 | 84.2 | -13.9 | 0.182 |
| 4-2640 | 4-3100 | 0.420 | 342.8 | -11.0 | -1.29 | 1.183 | 70.9 | 0.513 | 1.738 | 58.8 | 193.9 | --- | 2.629 | -6.16 | 0.457 | 76.2 | 85.1 | -14.8 | 0.187 |
| 4-2640 | 4-3120 | 0.407 | 343.6 | -8.5 | -0.52 | 1.185 | 71.7 | 0.509 | 1.753 | 56.4 | 196.1 | --- | 2.646 | -6.72 | 0.465 | 74.5 | 86.4 | -15.9 | 0.192 |
| 4-2640 | 4-3140 | 0.395 | 344.2 | -5.4 | 0.42 | 1.187 | 72.5 | 0.506 | 1.768 | 53.9 | 198.3 | --- | 2.663 | -7.47 | 0.473 | 73.0 | 88.2 | -17.3 | 0.198 |
| 4-2640 | 4-3160 | 0.384 | 344.5 | -1.5 | 1.61 | 1.189 | 73.3 | 0.504 | 1.783 | 51.4 | 200.4 | --- | 2.682 | -8.46 | 0.482 | 71.6 | 90.3 | -19.2 | 0.205 |
| 4-2640 | 4-3180 | 0.376 | 344.2 | 3.9 | 3.19 | 1.191 | 74.2 | 0.501 | 1.799 | 48.8 | 202.5 | --- | 2.700 | -9.86 | 0.491 | 70.3 | 92.9 | -21.7 | 0.215 |
| 4-2640 | 4-3200 | 0.373 | 342.8 | 11.1 | 5.44 | 1.193 | 75.0 | 0.499 | 1.814 | 46.1 | 204.6 | --- | 2.720 | -11.91 | 0.501 | 69.2 | 96.0 | -25.1 | 0.228 |
| 4-2640 | 4-3220 | 0.385 | 339.0 | 21.4 | 8.93 | 1.195 | 75.9 | 0.497 | 1.830 | 43.4 | 206.7 | --- | 2.739 | -15.21 | 0.510 | 68.1 | 100.0 | -29.9 | 0.249 |
| 4-2640 | 4-3240 | 0.439 | 329.3 | 35.1 | 15.13 | 1.197 | 76.8 | 0.495 | 1.846 | 40.8 | 208.7 | --- | 2.760 | -21.22 | 0.520 | 67.2 | 105.7 | -36.7 | 0.290 |
| 4-2640 | 4-3260 | 0.628 | 303.8 | 47.7 | 28.92 | 1.199 | 77.5 | 0.495 | 1.861 | 38.4 | 210.7 | --- | 2.782 | -34.82 | 0.530 | 66.3 | 116.4 | -44.7 | 0.393 |
| 4-2640 | 4-3300 | 1.010 | 98.1 | -86.4 | -53.15 | 1.203 | 80.7 | 0.486 | 1.892 | 28.7 | 214.6 | --- | 2.812 | 47.63 | 0.549 | 65.3 | 131.9 | 46.8 | 0.506 |
| 4-2640 | 4-3320 | 0.638 | 43.0 | -68.3 | -30.69 | 1.204 | 81.4 | 0.487 | 1.907 | 26.4 | 216.6 | --- | 2.836 | 25.38 | 0.559 | 64.5 | 122.4 | 39.7 | 0.339 |
| 4-2640 | 4-3340 | 0.493 | 39.0 | -57.0 | -21.94 | 1.206 | 82.4 | 0.487 | 1.922 | 23.3 | 218.5 | --- | 2.859 | 16.83 | 0.569 | 63.9 | 121.8 | 30.8 | 0.289 |
| 4-2650 | 4-2770 | 0.806 | 342.6 | -20.9 | -9.42 | 1.316 | 54.1 | 0.844 | 4.038 | 80.0 | 129.0 | --- | --- | -6.93 | 0.749 | 144.5 | 108.2 | -5.1 | 0.595 |
| 4-2650 | 4-2790 | 0.751 | 340.5 | -21.2 | -8.69 | 1.260 | 55.1 | 0.757 | 2.558 | 84.0 | 137.9 | --- | --- | -6.48 | 0.642 | 139.2 | 107.4 | 5.6 | 0.487 |
| 4-2650 | 4-2810 | 0.713 | 339.1 | -21.2 | -8.05 | 1.225 | 55.9 | 0.705 | 2.089 | 86.7 | 145.4 | --- | --- | -6.12 | 0.566 | 133.6 | 106.1 | -6.2 | 0.408 |
| 4-2650 | 4-2830 | 0.685 | 338.3 | -21.0 | -7.48 | 1.202 | 56.7 | 0.670 | 1.873 | 88.3 | 151.7 | --- | --- | -5.85 | 0.510 | 127.8 | 104.3 | -6.8 | 0.347 |
| 4-2650 | 4-2850 | 0.663 | 337.8 | -20.6 | -6.96 | 1.187 | 57.4 | 0.646 | 1.757 | 88.9 | 157.1 | --- | --- | -5.63 | 0.471 | 121.9 | 102.0 | -7.5 | 0.302 |
| 4-2650 | 4-2870 | 0.644 | 337.8 | -20.2 | -6.48 | 1.178 | 58.2 | 0.629 | 1.692 | 88.9 | 161.7 | --- | --- | -5.47 | 0.443 | 116.1 | 99.4 | -8.2 | 0.268 |
| 4-2650 | 4-2890 | 0.628 | 337.9 | -19.6 | -6.02 | 1.172 | 58.9 | 0.615 | 1.655 | 88.3 | 165.8 | --- | --- | -5.36 | 0.425 | 110.5 | 96.5 | -8.8 | 0.242 |
| 4-2650 | 4-2910 | 0.612 | 338.3 | -19.0 | -5.59 | 1.169 | 59.6 | 0.604 | 1.635 | 87.4 | 169.5 | --- | --- | -5.28 | 0.413 | 105.2 | 93.5 | -9.5 | 0.223 |
| 4-2650 | 4-2930 | 0.598 | 338.8 | -18.4 | -5.16 | 1.168 | 60.3 | 0.594 | 1.626 | 86.1 | 172.7 | --- | --- | -5.24 | 0.407 | 100.4 | 90.6 | -10.0 | 0.210 |
| 4-2650 | 4-2950 | 0.584 | 339.4 | -17.6 | -4.74 | 1.168 | 61.1 | 0.586 | 1.625 | 84.5 | 175.8 | --- | --- | -5.23 | 0.405 | 95.9 | 88.0 | -10.5 | 0.201 |
| 4-2650 | 4-2970 | 0.570 | 340.2 | -16.8 | -4.32 | 1.168 | 61.9 | 0.578 | 1.629 | 82.8 | 178.6 | --- | --- | -5.26 | 0.405 | 91.9 | 85.8 | -10.9 | 0.196 |
| 4-2650 | 4-2990 | 0.556 | 340.9 | -15.9 | -3.90 | 1.170 | 62.7 | 0.571 | 1.637 | 80.9 | 181.2 | --- | 2.572 | -5.31 | 0.408 | 88.4 | 84.1 | -11.3 | 0.193 |
| 4-2650 | 4-3010 | 0.543 | 341.8 | -15.0 | -3.46 | 1.171 | 63.5 | 0.565 | 1.647 | 78.8 | 183.7 | --- | 2.578 | -5.41 | 0.413 | 85.2 | 83.0 | -11.7 | 0.192 |
| 4-2650 | 4-3030 | 0.529 | 342.6 | -13.9 | -3.01 | 1.173 | 64.3 | 0.559 | 1.660 | 76.7 | 186.1 | --- | 2.588 | -5.55 | 0.419 | 82.4 | 82.4 | -12.0 | 0.192 |
| 4-2650 | 4-3050 | 0.515 | 343.5 | -12.7 | -2.52 | 1.175 | 65.1 | 0.554 | 1.674 | 74.4 | 188.4 | --- | 2.601 | -5.72 | 0.427 | 79.8 | 82.4 | -12.5 | 0.194 |
| 4-2650 | 4-3070 | 0.501 | 344.4 | -11.3 | -2.00 | 1.178 | 65.9 | 0.548 | 1.689 | 72.1 | 190.7 | --- | 2.615 | -5.96 | 0.434 | 77.6 | 82.8 | -12.9 | 0.197 |
| 4-2650 | 4-3090 | 0.488 | 345.3 | -9.7 | -1.43 | 1.180 | 66.8 | 0.543 | 1.705 | 69.7 | 192.8 | --- | 2.631 | -6.25 | 0.443 | 75.6 | 83.7 | -13.5 | 0.200 |
| 4-2650 | 4-3110 | 0.474 | 346.1 | -7.9 | -0.79 | 1.182 | 67.7 | 0.539 | 1.721 | 67.2 | 195.0 | --- | 2.648 | -6.62 | 0.452 | 73.8 | 85.0 | -14.2 | 0.204 |
| 4-2650 | 4-3130 | 0.460 | 346.9 | -5.8 | -0.07 | 1.185 | 68.5 | 0.534 | 1.738 | 64.7 | 197.1 | --- | 2.666 | -7.09 | 0.461 | 72.2 | 86.7 | -15.1 | 0.208 |
| 4-2650 | 4-3150 | 0.447 | 347.6 | -3.2 | 0.78 | 1.187 | 69.4 | 0.530 | 1.754 | 62.1 | 199.1 | --- | 2.684 | -7.69 | 0.471 | 70.8 | 88.8 | -16.2 | 0.213 |
| 4-2650 | 4-3170 | 0.434 | 348.0 | -0.1 | 1.81 | 1.189 | 70.3 | 0.526 | 1.771 | 59.4 | 201.2 | --- | 2.703 | -8.47 | 0.480 | 69.5 | 91.2 | -17.6 | 0.220 |
| 4-2650 | 4-3190 | 0.423 | 348.2 | 3.9 | 3.09 | 1.191 | 71.3 | 0.522 | 1.788 | 56.7 | 203.2 | --- | 2.723 | -9.50 | 0.490 | 68.4 | 93.9 | -19.4 | 0.227 |
| 4-2650 | 4-3210 | 0.415 | 347.7 | 9.0 | 4.75 | 1.194 | 72.2 | 0.519 | 1.805 | 53.9 | 205.2 | --- | 2.742 | -10.93 | 0.500 | 67.4 | 97.0 | -21.7 | 0.236 |
| 4-2650 | 4-3230 | 0.413 | 346.1 | 15.7 | 7.04 | 1.196 | 73.1 | 0.516 | 1.822 | 51.1 | 207.2 | --- | 2.762 | -12.99 | 0.511 | 66.5 | 100.6 | -24.9 | 0.250 |
| 4-2650 | 4-3250 | 0.425 | 342.4 | 24.6 | 10.46 | 1.198 | 74.1 | 0.513 | 1.839 | 48.3 | 209.2 | --- | 2.782 | -16.16 | 0.521 | 65.6 | 104.9 | -29.3 | 0.270 |
| 4-2650 | 4-3270 | 0.473 | 333.7 | 35.9 | 16.14 | 1.200 | 75.0 | 0.510 | 1.856 | 45.5 | 211.2 | --- | 2.803 | -21.61 | 0.531 | 64.9 | 110.7 | -35.2 | 0.307 |
| 4-2650 | 4-3290 | 0.618 | 313.2 | 46.5 | 27.33 | 1.202 | 75.8 | 0.509 | 1.873 | 42.9 | 213.1 | --- | 2.825 | -32.57 | 0.541 | 64.1 | 120.3 | -42.4 | 0.389 |
| 4-2650 | 4-3310 | 1.051 | 278.1 | 42.6 | 54.94 | 1.204 | 76.4 | 0.509 | 1.889 | 41.1 | 215.1 | --- | 2.851 | -59.93 | 0.552 | 63.3 | 138.6 | -44.4 | 0.610 |
| 4-2650 | 4-3350 | 0.784 | 43.4 | -73.8 | -39.11 | 1.208 | 80.3 | 0.497 | 1.921 | 29.6 | 218.9 | --- | 2.876 | 34.60 | 0.572 | 63.0 | 134.1 | 43.5 | 0.420 |
| 4-2660 | 4-2780 | 0.912 | 342.7 | -19.1 | -10.59 | 1.286 | 46.9 | 0.839 | 3.029 | 97.7 | 139.6 | --- | --- | -8.95 | 0.690 | 146.4 | 104.6 | -5.8 | 0.585 |
| 4-2660 | 4-2800 | 0.853 | 341.5 | -19.0 | -9.56 | 1.236 | 48.4 | 0.777 | 2.194 | 100.3 | 147.0 | --- | --- | -8.21 | 0.588 | 140.6 | 103.3 | -6.4 | 0.482 |
| 4-2660 | 4-2820 | 0.810 | 340.8 | -18.8 | -8.68 | 1.205 | 49.7 | 0.738 | 1.883 | 101.6 | 153.1 | --- | --- | -7.63 | 0.515 | 134.3 | 101.5 | -6.9 | 0.406 |
| 4-2660 | 4-2840 | 0.778 | 340.5 | -18.3 | -7.92 | 1.186 | 50.8 | 0.710 | 1.733 | 102.0 | 158.2 | --- | --- | -7.19 | 0.464 | 127.7 | 99.3 | -7.5 | 0.350 |
| 4-2660 | 4-2860 | 0.752 | 340.6 | -17.8 | -7.24 | 1.174 | 51.9 | 0.689 | 1.652 | 101.7 | 162.6 | --- | --- | -6.83 | 0.429 | 121.0 | 96.7 | -8.1 | 0.309 |
| 4-2660 | 4-2880 | 0.729 | 340.9 | -17.2 | -6.63 | 1.167 | 52.9 | 0.673 | 1.608 | 100.9 | 166.4 | --- | --- | -6.56 | 0.405 | 114.5 | 94.0 | -8.7 | 0.278 |
| 4-2660 | 4-2900 | 0.709 | 341.3 | -16.6 | -6.07 | 1.163 | 53.9 | 0.659 | 1.586 | 99.6 | 169.8 | --- | --- | -6.35 | 0.391 | 108.4 | 91.1 | -9.2 | 0.255 |
| 4-2660 | 4-2920 | 0.691 | 341.9 | -15.9 | -5.54 | 1.161 | 54.8 | 0.647 | 1.576 | 98.1 | 172.9 | --- | --- | -6.19 | 0.383 | 102.6 | 88.4 | -9.7 | 0.239 |
| 4-2660 | 4-2940 | 0.674 | 342.6 | -15.2 | -5.04 | 1.161 | 55.8 | 0.636 | 1.575 | 96.3 | 175.7 | --- | --- | -6.07 | 0.381 | 97.5 | 86.0 | -10.1 | 0.228 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2660 | 4-2960 | 0.657 | 343.3 | -14.4 | -4.55 | 1.162 | 56.7 | 0.627 | 1.580 | 94.4 | 178.3 | --- | --- | -6.00 | 0.382 | 92.8 | 84.0 | -10.4 | 0.220 |
| 4-2660 | 4-2980 | 0.641 | 344.1 | -13.5 | -4.07 | 1.164 | 57.7 | 0.618 | 1.590 | 92.3 | 180.8 | --- | 2.571 | -5.97 | 0.386 | 88.8 | 82.5 | -10.7 | 0.216 |
| 4-2660 | 4-3000 | 0.625 | 345.0 | -12.6 | -3.60 | 1.166 | 58.6 | 0.609 | 1.602 | 90.1 | 183.1 | --- | 2.578 | -5.98 | 0.392 | 85.2 | 81.5 | -11.0 | 0.214 |
| 4-2660 | 4-3020 | 0.609 | 345.8 | -11.7 | -3.12 | 1.168 | 59.6 | 0.601 | 1.616 | 87.8 | 185.4 | --- | 2.588 | -6.02 | 0.399 | 82.0 | 81.0 | -11.2 | 0.213 |
| 4-2660 | 4-3040 | 0.593 | 346.7 | -10.6 | -2.63 | 1.171 | 60.5 | 0.594 | 1.631 | 85.5 | 187.6 | --- | 2.601 | -6.10 | 0.407 | 79.2 | 81.1 | -11.5 | 0.213 |
| 4-2660 | 4-3060 | 0.578 | 347.6 | -9.4 | -2.12 | 1.173 | 61.4 | 0.587 | 1.648 | 83.1 | 189.7 | --- | 2.616 | -6.23 | 0.416 | 76.8 | 81.6 | -11.8 | 0.215 |
| 4-2660 | 4-3080 | 0.562 | 348.5 | -8.1 | -1.59 | 1.176 | 62.4 | 0.580 | 1.666 | 80.6 | 191.7 | --- | 2.632 | -6.40 | 0.426 | 74.7 | 82.5 | -12.2 | 0.217 |
| 4-2660 | 4-3100 | 0.547 | 349.4 | -6.7 | -1.02 | 1.179 | 63.4 | 0.574 | 1.684 | 78.0 | 193.8 | --- | 2.650 | -6.63 | 0.436 | 72.8 | 83.8 | -12.7 | 0.220 |
| 4-2660 | 4-3120 | 0.531 | 350.3 | -5.1 | -0.39 | 1.181 | 64.3 | 0.568 | 1.702 | 75.4 | 195.8 | --- | 2.669 | -6.92 | 0.446 | 71.2 | 85.5 | -13.2 | 0.223 |
| 4-2660 | 4-3140 | 0.516 | 351.1 | -3.2 | 0.30 | 1.184 | 65.3 | 0.562 | 1.721 | 72.7 | 197.8 | --- | 2.688 | -7.30 | 0.457 | 69.7 | 87.5 | -13.9 | 0.226 |
| 4-2660 | 4-3160 | 0.501 | 351.8 | -1.0 | 1.08 | 1.187 | 66.3 | 0.557 | 1.739 | 70.0 | 199.8 | --- | 2.707 | -7.77 | 0.467 | 68.4 | 89.8 | -14.8 | 0.231 |
| 4-2660 | 4-3180 | 0.487 | 352.4 | 1.6 | 1.98 | 1.189 | 67.3 | 0.551 | 1.758 | 67.3 | 201.7 | --- | 2.727 | -8.38 | 0.478 | 67.3 | 92.3 | -15.8 | 0.236 |
| 4-2660 | 4-3200 | 0.474 | 352.7 | 4.6 | 3.05 | 1.192 | 68.3 | 0.546 | 1.776 | 64.4 | 203.7 | --- | 2.747 | -9.16 | 0.489 | 66.3 | 95.2 | -17.2 | 0.242 |
| 4-2660 | 4-3220 | 0.462 | 352.8 | 8.5 | 4.38 | 1.194 | 69.3 | 0.542 | 1.795 | 61.6 | 205.6 | --- | 2.767 | -10.20 | 0.500 | 65.4 | 98.3 | -18.9 | 0.249 |
| 4-2660 | 4-3240 | 0.453 | 352.2 | 13.2 | 6.07 | 1.197 | 70.3 | 0.537 | 1.813 | 58.7 | 207.6 | --- | 2.787 | -11.61 | 0.510 | 64.6 | 101.8 | -21.1 | 0.258 |
| 4-2660 | 4-3260 | 0.451 | 350.6 | 19.4 | 8.35 | 1.199 | 71.3 | 0.533 | 1.831 | 55.7 | 209.5 | --- | 2.807 | -13.61 | 0.521 | 63.9 | 105.7 | -24.1 | 0.270 |
| 4-2660 | 4-3280 | 0.462 | 347.1 | 27.2 | 11.64 | 1.201 | 72.3 | 0.529 | 1.849 | 52.7 | 211.4 | --- | 2.828 | -16.63 | 0.532 | 63.3 | 110.3 | -28.1 | 0.289 |
| 4-2660 | 4-3300 | 0.504 | 339.2 | 36.9 | 16.86 | 1.203 | 73.3 | 0.526 | 1.867 | 49.8 | 213.4 | --- | 2.849 | -21.57 | 0.543 | 62.7 | 116.1 | -33.4 | 0.322 |
| 4-2660 | 4-3320 | 0.620 | 321.9 | 46.1 | 26.39 | 1.205 | 74.3 | 0.523 | 1.885 | 47.0 | 215.3 | --- | 2.871 | -30.83 | 0.554 | 62.2 | 124.9 | -40.0 | 0.390 |
| 4-2660 | 4-3340 | 0.940 | 291.7 | 45.4 | 47.39 | 1.207 | 75.0 | 0.523 | 1.902 | 44.8 | 217.1 | --- | 2.896 | -51.55 | 0.564 | 61.6 | 140.7 | -44.3 | 0.556 |
| 4-2670 | 4-2790 | 1.026 | 344.0 | -17.2 | -12.34 | 1.260 | 39.4 | 0.860 | 2.487 | 114.6 | 149.4 | --- | --- | -11.51 | 0.634 | 149.4 | 100.7 | -6.3 | 0.587 |
| 4-2670 | 4-2810 | 0.961 | 343.5 | -16.8 | -10.82 | 1.214 | 41.4 | 0.815 | 1.947 | 115.5 | 155.1 | --- | --- | -10.30 | 0.534 | 142.8 | 99.0 | -6.8 | 0.488 |
| 4-2670 | 4-2830 | 0.913 | 343.4 | -16.3 | -9.60 | 1.187 | 43.2 | 0.783 | 1.727 | 115.5 | 159.7 | --- | --- | -9.39 | 0.464 | 135.7 | 96.9 | -7.3 | 0.416 |
| 4-2670 | 4-2850 | 0.875 | 343.6 | -15.7 | -8.57 | 1.171 | 44.7 | 0.759 | 1.620 | 114.7 | 163.7 | --- | --- | -8.69 | 0.416 | 128.1 | 94.4 | -7.8 | 0.363 |
| 4-2670 | 4-2870 | 0.845 | 344.1 | -15.1 | -7.69 | 1.161 | 46.1 | 0.739 | 1.564 | 113.5 | 167.2 | --- | --- | -8.14 | 0.385 | 120.5 | 91.8 | -8.3 | 0.325 |
| 4-2670 | 4-2890 | 0.818 | 344.6 | -14.4 | -6.92 | 1.156 | 47.4 | 0.723 | 1.535 | 112.0 | 170.2 | --- | --- | -7.70 | 0.365 | 113.1 | 89.2 | -8.7 | 0.296 |
| 4-2670 | 4-2910 | 0.794 | 345.3 | -13.6 | -6.22 | 1.154 | 48.7 | 0.708 | 1.524 | 110.2 | 173.0 | --- | --- | -7.36 | 0.355 | 106.1 | 86.6 | -9.1 | 0.276 |
| 4-2670 | 4-2930 | 0.773 | 346.1 | -12.9 | -5.58 | 1.154 | 49.9 | 0.695 | 1.522 | 108.2 | 175.6 | --- | --- | -7.09 | 0.352 | 99.9 | 84.4 | -9.4 | 0.261 |
| 4-2670 | 4-2950 | 0.752 | 346.9 | -12.1 | -4.99 | 1.155 | 51.0 | 0.683 | 1.528 | 106.1 | 178.0 | --- | --- | -6.88 | 0.353 | 94.3 | 82.6 | -9.7 | 0.251 |
| 4-2670 | 4-2970 | 0.733 | 347.7 | -11.3 | -4.42 | 1.157 | 52.2 | 0.671 | 1.538 | 103.8 | 180.3 | --- | 2.570 | -6.73 | 0.358 | 89.4 | 81.2 | -9.9 | 0.244 |
| 4-2670 | 4-2990 | 0.714 | 348.6 | -10.4 | -3.88 | 1.159 | 53.3 | 0.661 | 1.551 | 101.4 | 182.5 | --- | 2.576 | -6.62 | 0.365 | 85.2 | 80.3 | -10.1 | 0.240 |
| 4-2670 | 4-3010 | 0.696 | 349.5 | -9.5 | -3.36 | 1.162 | 54.4 | 0.651 | 1.567 | 99.0 | 184.6 | --- | 2.587 | -6.56 | 0.374 | 81.6 | 79.9 | -10.2 | 0.238 |
| 4-2670 | 4-3030 | 0.678 | 350.4 | -8.5 | -2.83 | 1.165 | 55.5 | 0.641 | 1.584 | 96.5 | 186.6 | --- | 2.600 | -6.54 | 0.384 | 78.5 | 80.0 | -10.4 | 0.237 |
| 4-2670 | 4-3050 | 0.660 | 351.4 | -7.4 | -2.31 | 1.168 | 56.6 | 0.632 | 1.603 | 94.0 | 188.6 | --- | 2.616 | -6.56 | 0.394 | 75.8 | 80.5 | -10.6 | 0.237 |
| 4-2670 | 4-3070 | 0.643 | 352.3 | -6.3 | -1.78 | 1.171 | 57.7 | 0.624 | 1.622 | 91.4 | 190.6 | --- | 2.634 | -6.63 | 0.405 | 73.5 | 81.5 | -10.9 | 0.238 |
| 4-2670 | 4-3090 | 0.626 | 353.2 | -5.1 | -1.23 | 1.174 | 58.7 | 0.616 | 1.642 | 88.7 | 192.5 | --- | 2.652 | -6.74 | 0.417 | 71.5 | 82.8 | -11.2 | 0.239 |
| 4-2670 | 4-3110 | 0.608 | 354.1 | -3.8 | -0.66 | 1.178 | 59.8 | 0.608 | 1.662 | 86.1 | 194.4 | --- | 2.671 | -6.90 | 0.428 | 69.8 | 84.4 | -11.5 | 0.241 |
| 4-2670 | 4-3130 | 0.591 | 355.0 | -2.3 | -0.05 | 1.181 | 60.9 | 0.600 | 1.682 | 83.3 | 196.3 | --- | 2.691 | -7.11 | 0.440 | 68.3 | 86.4 | -12.0 | 0.244 |
| 4-2670 | 4-3150 | 0.575 | 355.8 | -0.6 | 0.60 | 1.184 | 61.9 | 0.593 | 1.702 | 80.6 | 198.2 | --- | 2.712 | -7.39 | 0.452 | 67.0 | 88.6 | -12.5 | 0.247 |
| 4-2670 | 4-3170 | 0.558 | 356.6 | 1.3 | 1.33 | 1.187 | 63.0 | 0.586 | 1.723 | 77.7 | 200.1 | --- | 2.732 | -7.75 | 0.463 | 65.9 | 91.0 | -13.2 | 0.250 |
| 4-2670 | 4-3190 | 0.542 | 357.2 | 3.4 | 2.14 | 1.189 | 64.1 | 0.579 | 1.743 | 74.9 | 202.0 | --- | 2.752 | -8.22 | 0.475 | 64.9 | 93.8 | -14.0 | 0.254 |
| 4-2670 | 4-3210 | 0.527 | 357.8 | 5.9 | 3.07 | 1.192 | 65.2 | 0.573 | 1.763 | 72.0 | 203.9 | --- | 2.773 | -8.81 | 0.487 | 64.0 | 96.7 | -15.0 | 0.258 |
| 4-2670 | 4-3230 | 0.512 | 358.1 | 8.9 | 4.16 | 1.195 | 66.3 | 0.567 | 1.783 | 69.0 | 205.8 | --- | 2.793 | -9.58 | 0.498 | 63.3 | 99.9 | -16.3 | 0.264 |
| 4-2670 | 4-3250 | 0.500 | 358.1 | 12.5 | 5.50 | 1.197 | 67.3 | 0.561 | 1.802 | 66.0 | 207.7 | --- | 2.814 | -10.59 | 0.510 | 62.6 | 103.4 | -17.9 | 0.270 |
| 4-2670 | 4-3270 | 0.491 | 357.6 | 17.0 | 7.18 | 1.200 | 68.4 | 0.555 | 1.822 | 63.0 | 209.6 | --- | 2.834 | -11.95 | 0.522 | 62.0 | 107.1 | -20.0 | 0.278 |
| 4-2670 | 4-3290 | 0.487 | 356.1 | 22.6 | 9.41 | 1.202 | 69.5 | 0.550 | 1.841 | 59.9 | 211.5 | --- | 2.855 | -13.87 | 0.533 | 61.5 | 111.3 | -22.8 | 0.290 |
| 4-2670 | 4-3310 | 0.496 | 352.8 | 29.7 | 12.55 | 1.205 | 70.6 | 0.546 | 1.860 | 56.8 | 213.4 | --- | 2.875 | -16.70 | 0.544 | 61.1 | 116.0 | -26.4 | 0.307 |
| 4-2670 | 4-3330 | 0.531 | 345.7 | 38.1 | 17.37 | 1.207 | 71.7 | 0.541 | 1.879 | 53.7 | 215.3 | --- | 2.896 | -21.21 | 0.555 | 60.7 | 121.8 | -31.4 | 0.337 |
| 4-2670 | 4-3350 | 0.627 | 330.6 | 46.4 | 25.72 | 1.209 | 72.8 | 0.538 | 1.898 | 50.7 | 217.2 | --- | 2.918 | -29.24 | 0.566 | 60.4 | 130.0 | -37.6 | 0.394 |
| 4-2670 | 4-3370 | 0.878 | 303.7 | 47.4 | 42.80 | 1.211 | 73.6 | 0.536 | 1.916 | 48.1 | 219.0 | --- | 2.942 | -48.01 | 0.577 | 60.0 | 144.0 | -43.1 | 0.526 |
| 4-2680 | 4-2800 | 1.145 | 346.3 | -15.1 | -15.08 | 1.238 | 31.6 | 0.897 | 2.167 | 130.1 | 157.8 | --- | --- | -15.05 | 0.583 | 153.4 | 96.9 | -6.4 | 0.604 |
| 4-2680 | 4-2820 | 1.072 | 346.4 | -14.4 | -12.75 | 1.196 | 34.2 | 0.863 | 1.775 | 129.4 | 161.7 | --- | --- | -13.03 | 0.483 | 146.2 | 94.9 | -6.9 | 0.507 |
| 4-2680 | 4-2840 | 1.018 | 346.8 | -13.8 | -10.97 | 1.172 | 36.4 | 0.835 | 1.609 | 128.1 | 165.1 | --- | --- | -11.56 | 0.414 | 138.1 | 92.6 | -7.3 | 0.437 |
| 4-2680 | 4-2860 | 0.976 | 347.4 | -13.0 | -9.55 | 1.158 | 38.3 | 0.813 | 1.529 | 126.4 | 168.1 | --- | --- | -10.46 | 0.368 | 129.4 | 90.2 | -7.7 | 0.386 |
| 4-2680 | 4-2880 | 0.940 | 348.1 | -12.3 | -8.37 | 1.150 | 40.1 | 0.793 | 1.490 | 124.5 | 170.7 | --- | --- | -9.62 | 0.339 | 120.4 | 87.7 | -8.0 | 0.349 |
| 4-2680 | 4-2900 | 0.909 | 348.9 | -11.5 | -7.37 | 1.147 | 41.8 | 0.776 | 1.473 | 122.4 | 173.2 | --- | --- | -8.95 | 0.323 | 111.8 | 85.4 | -8.3 | 0.322 |
| 4-2680 | 4-2920 | 0.882 | 349.7 | -10.7 | -6.50 | 1.146 | 43.3 | 0.760 | 1.469 | 120.1 | 175.5 | --- | --- | -8.43 | 0.317 | 103.8 | 83.3 | -8.6 | 0.303 |
| 4-2680 | 4-2940 | 0.857 | 350.6 | -9.9 | -5.72 | 1.147 | 44.7 | 0.745 | 1.473 | 117.7 | 177.7 | --- | --- | -8.01 | 0.318 | 96.8 | 81.6 | -8.8 | 0.289 |
| 4-2680 | 4-2960 | 0.834 | 351.6 | -9.1 | -5.02 | 1.149 | 46.1 | 0.731 | 1.484 | 115.3 | 179.7 | --- | --- | -7.68 | 0.323 | 90.7 | 80.3 | -8.9 | 0.279 |
| 4-2680 | 4-2980 | 0.812 | 352.5 | -8.2 | -4.36 | 1.152 | 47.5 | 0.718 | 1.498 | 112.7 | 181.7 | --- | 2.574 | -7.43 | 0.332 | 85.6 | 79.5 | -9.0 | 0.272 |
| 4-2680 | 4-3000 | 0.790 | 353.5 | -7.3 | -3.75 | 1.155 | 48.8 | 0.706 | 1.515 | 110.1 | 183.7 | --- | 2.584 | -7.23 | 0.343 | 81.3 | 79.2 | -9.2 | 0.268 |
| 4-2680 | 4-3020 | 0.770 | 354.5 | -6.4 | -3.16 | 1.158 | 50.0 | 0.695 | 1.533 | 107.5 | 185.6 | --- | 2.598 | -7.08 | 0.355 | 77.6 | 79.3 | -9.3 | 0.265 |
| 4-2680 | 4-3040 | 0.750 | 355.4 | -5.4 | -2.59 | 1.162 | 51.3 | 0.684 | 1.553 | 104.9 | 187.5 | --- | 2.615 | -6.99 | 0.367 | 74.6 | 79.8 | -9.4 | 0.263 |
| 4-2680 | 4-3060 | 0.730 | 356.4 | -4.4 | -2.04 | 1.166 | 52.5 | 0.673 | 1.574 | 102.1 | 189.3 | --- | 2.633 | -6.94 | 0.380 | 72.1 | 80.7 | -9.6 | 0.263 |
| 4-2680 | 4-3080 | 0.710 | 357.3 | -3.3 | -1.48 | 1.169 | 53.7 | 0.663 | 1.595 | 99.4 | 191.1 | --- | 2.653 | -6.93 | 0.394 | 69.9 | 82.0 | -9.8 | 0.263 |
| 4-2680 | 4-3100 | 0.691 | 358.3 | -2.1 | -0.92 | 1.173 | 54.9 | 0.653 | 1.617 | 96.6 | 192.9 | --- | 2.673 | -6.97 | 0.407 | 68.1 | 83.6 | -10.0 | 0.264 |
| 4-2680 | 4-3120 | 0.672 | 359.2 | -0.9 | -0.35 | 1.176 | 56.1 | 0.644 | 1.639 | 93.8 | 194.8 | --- | 2.694 | -7.06 | 0.420 | 66.5 | 85.5 | -10.3 | 0.265 |
| 4-2680 | 4-3140 | 0.654 | 0.1 | 0.5 | 0.25 | 1.180 | 57.3 | 0.635 | 1.661 | 91.0 | 196.6 | --- | 2.715 | -7.20 | 0.433 | 65.2 | 87.6 | -10.7 | 0.266 |
| 4-2680 | 4-3160 | 0.635 | 1.0 | 2.0 | 0.88 | 1.183 | 58.5 | 0.626 | 1.683 | 88.1 | 198.4 | --- | 2.737 | -7.39 | 0.446 | 64.0 | 90.0 | -11.1 | 0.268 |
| 4-2680 | 4-3180 | 0.617 | 1.8 | 3.6 | 1.56 | 1.186 | 59.7 | 0.618 | 1.705 | 85.2 | 200.2 | --- | 2.758 | -7.65 | 0.459 | 63.1 | 92.7 | -11.6 | 0.271 |
| 4-2680 | 4-3200 | 0.599 | 2.6 | 5.5 | 2.30 | 1.189 | 60.8 | 0.610 | 1.727 | 82.3 | 202.1 | --- | 2.779 | -7.99 | 0.472 | 62.2 | 95.5 | -12.3 | 0.274 |
| 4-2680 | 4-3220 | 0.582 | 3.3 | 7.6 | 3.12 | 1.192 | 62.0 | 0.602 | 1.748 | 79.3 | 203.9 | --- | 2.800 | -8.43 | 0.485 | 61.5 | 98.5 | -13.0 | 0.277 |
| 4-2680 | 4-3240 | 0.565 | 3.8 | 10.0 | 4.06 | 1.195 | 63.2 | 0.594 | 1.770 | 76.3 | 205.8 | --- | 2.821 | -8.99 | 0.497 | 60.9 | 101.8 | -14.0 | 0.281 |
| 4-2680 | 4-3260 | 0.550 | 4.2 | 12.9 | 5.15 | 1.198 | 64.3 | 0.587 | 1.791 | 73.2 | 207.6 | --- | 2.842 | -9.73 | 0.509 | 60.4 | 105.3 | -15.2 | 0.285 |
| 4-2680 | 4-3280 | 0.536 | 4.2 | 16.3 | 6.47 | 1.201 | 65.5 | 0.580 | 1.811 | 70.1 | 209.5 | --- | 2.862 | -10.69 | 0.521 | 60.0 | 109.0 | -16.7 | 0.291 |
| 4-2680 | 4-3300 | 0.526 | 3.7 | 20.5 | 8.12 | 1.203 | 66.7 | 0.574 | 1.832 | 66.9 | 211.4 | --- | 2.883 | -11.99 | 0.533 | 59.7 | 113.0 | -18.7 | 0.299 |
| 4-2680 | 4-3320 | 0.521 | 2.4 | 25.6 | 10.27 | 1.206 | 67.9 | 0.567 | 1.852 | 63.7 | 213.3 | --- | 2.903 | -13.79 | 0.545 | 59.4 | 117.3 | -21.2 | 0.309 |
| 4-2680 | 4-3340 | 0.527 | 359.4 | 32.0 | 13.24 | 1.208 | 69.1 | 0.562 | 1.872 | 60.4 | 215.1 | --- | 2.924 | -16.43 | 0.557 | 59.1 | 122.1 | -24.6 | 0.325 |
| 4-2680 | 4-3360 | 0.556 | 353.0 | 39.7 | 17.70 | 1.210 | 70.3 | 0.556 | 1.892 | 57.1 | 217.0 | --- | 2.944 | -20.54 | 0.568 | 58.9 | 127.9 | -29.1 | 0.350 |
| 4-2680 | 4-3380 | 0.635 | 339.6 | 47.4 | 25.14 | 1.213 | 71.4 | 0.552 | 1.911 | 54.0 | 218.9 | --- | 2.966 | -27.65 | 0.579 | 58.7 | 135.6 | -35.1 | 0.399 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2690 | 4-2810 | 1.267 | 349.3 | -12.8 | -19.87 | 1.222 | 23.7 | 0.937 | 1.973 | 144.1 | 164.7 | --- | --- | -20.61 | 0.540 | 158.7 | 93.6 | -6.2 | 0.634 |
| 4-2690 | 4-2830 | 1.187 | 349.9 | -12.0 | -15.90 | 1.181 | 26.8 | 0.911 | 1.656 | 142.0 | 167.1 | --- | --- | -16.95 | 0.437 | 151.1 | 91.5 | -6.6 | 0.537 |
| 4-2690 | 4-2850 | 1.126 | 350.6 | -11.2 | -13.12 | 1.159 | 29.4 | 0.887 | 1.522 | 139.6 | 169.3 | --- | --- | -14.48 | 0.366 | 142.0 | 89.3 | -6.9 | 0.467 |
| 4-2690 | 4-2870 | 1.077 | 351.5 | -10.4 | -11.03 | 1.146 | 31.8 | 0.866 | 1.459 | 137.2 | 171.5 | --- | --- | -12.71 | 0.319 | 131.8 | 87.0 | -7.2 | 0.417 |
| 4-2690 | 4-2890 | 1.037 | 352.5 | -9.5 | -9.40 | 1.140 | 33.9 | 0.846 | 1.430 | 134.8 | 173.5 | --- | --- | -11.40 | 0.292 | 121.2 | 84.8 | -7.4 | 0.381 |
| 4-2690 | 4-2910 | 1.002 | 353.5 | -8.7 | -8.07 | 1.138 | 35.9 | 0.828 | 1.420 | 132.0 | 175.4 | --- | --- | -10.39 | 0.279 | 110.8 | 82.8 | -7.6 | 0.354 |
| 4-2690 | 4-2930 | 0.971 | 354.5 | -7.8 | -6.95 | 1.138 | 37.7 | 0.812 | 1.421 | 129.4 | 177.3 | --- | --- | -9.61 | 0.277 | 101.4 | 81.2 | -7.8 | 0.335 |
| 4-2690 | 4-2950 | 0.943 | 355.5 | -6.9 | -5.99 | 1.140 | 39.4 | 0.796 | 1.430 | 126.7 | 179.1 | --- | --- | -8.99 | 0.283 | 93.3 | 80.0 | -7.9 | 0.321 |
| 4-2690 | 4-2970 | 0.917 | 356.6 | -6.1 | -5.13 | 1.143 | 41.0 | 0.781 | 1.444 | 124.0 | 180.9 | --- | 2.571 | -8.50 | 0.293 | 86.7 | 79.2 | -8.0 | 0.311 |
| 4-2690 | 4-2990 | 0.892 | 357.6 | -5.2 | -4.37 | 1.147 | 42.6 | 0.766 | 1.461 | 121.2 | 182.7 | --- | 2.581 | -8.11 | 0.306 | 81.2 | 78.9 | -8.1 | 0.303 |
| 4-2690 | 4-3010 | 0.868 | 358.7 | -4.3 | -3.66 | 1.151 | 44.1 | 0.753 | 1.480 | 118.5 | 184.4 | --- | 2.595 | -7.79 | 0.320 | 76.8 | 79.0 | -8.1 | 0.298 |
| 4-2690 | 4-3030 | 0.845 | 359.7 | -3.3 | -3.01 | 1.155 | 45.5 | 0.740 | 1.501 | 115.7 | 186.2 | --- | 2.612 | -7.55 | 0.335 | 73.2 | 79.5 | -8.2 | 0.295 |
| 4-2690 | 4-3050 | 0.823 | 0.7 | -2.4 | -2.39 | 1.159 | 47.0 | 0.727 | 1.523 | 112.8 | 187.9 | --- | 2.631 | -7.37 | 0.351 | 70.3 | 80.3 | -8.3 | 0.292 |
| 4-2690 | 4-3070 | 0.801 | 1.7 | -1.4 | -1.79 | 1.163 | 48.3 | 0.715 | 1.546 | 110.0 | 189.6 | --- | 2.652 | -7.24 | 0.366 | 67.9 | 81.6 | -8.4 | 0.291 |
| 4-2690 | 4-3090 | 0.780 | 2.7 | -0.3 | -1.20 | 1.167 | 49.7 | 0.704 | 1.569 | 107.2 | 191.3 | --- | 2.673 | -7.15 | 0.382 | 66.0 | 83.1 | -8.6 | 0.290 |
| 4-2690 | 4-3110 | 0.759 | 3.7 | 0.8 | -0.63 | 1.171 | 51.0 | 0.692 | 1.593 | 104.3 | 193.1 | --- | 2.696 | -7.12 | 0.397 | 64.3 | 84.9 | -8.8 | 0.290 |
| 4-2690 | 4-3130 | 0.738 | 4.7 | 1.9 | -0.05 | 1.175 | 52.3 | 0.681 | 1.616 | 101.4 | 194.8 | --- | 2.718 | -7.13 | 0.412 | 63.0 | 87.0 | -9.0 | 0.290 |
| 4-2690 | 4-3150 | 0.718 | 5.6 | 3.2 | 0.54 | 1.179 | 53.6 | 0.671 | 1.640 | 98.5 | 196.5 | --- | 2.740 | -7.19 | 0.426 | 61.8 | 89.3 | -9.3 | 0.291 |
| 4-2690 | 4-3170 | 0.697 | 6.5 | 4.6 | 1.15 | 1.183 | 54.9 | 0.661 | 1.663 | 95.5 | 198.3 | --- | 2.763 | -7.30 | 0.441 | 60.9 | 91.8 | -9.6 | 0.292 |
| 4-2690 | 4-3190 | 0.678 | 7.4 | 6.0 | 1.79 | 1.186 | 56.2 | 0.651 | 1.687 | 92.5 | 200.1 | --- | 2.785 | -7.47 | 0.455 | 60.1 | 94.6 | -10.0 | 0.294 |
| 4-2690 | 4-3210 | 0.658 | 8.3 | 7.7 | 2.47 | 1.189 | 57.5 | 0.642 | 1.710 | 89.5 | 201.9 | --- | 2.807 | -7.70 | 0.468 | 59.4 | 97.5 | -10.5 | 0.295 |
| 4-2690 | 4-3230 | 0.639 | 9.1 | 9.5 | 3.21 | 1.193 | 58.7 | 0.633 | 1.733 | 86.4 | 203.7 | --- | 2.829 | -8.01 | 0.482 | 58.9 | 100.6 | -11.1 | 0.298 |
| 4-2690 | 4-3250 | 0.620 | 9.8 | 11.5 | 4.02 | 1.196 | 60.0 | 0.624 | 1.755 | 83.3 | 205.5 | --- | 2.850 | -8.41 | 0.495 | 58.4 | 103.9 | -11.9 | 0.300 |
| 4-2690 | 4-3270 | 0.602 | 10.4 | 13.9 | 4.95 | 1.199 | 61.3 | 0.615 | 1.778 | 80.2 | 207.3 | --- | 2.871 | -8.94 | 0.508 | 58.1 | 107.4 | -12.8 | 0.303 |
| 4-2690 | 4-3290 | 0.585 | 10.8 | 16.6 | 6.02 | 1.202 | 62.5 | 0.607 | 1.800 | 77.0 | 209.2 | --- | 2.892 | -9.63 | 0.521 | 57.8 | 111.1 | -13.9 | 0.307 |
| 4-2690 | 4-3310 | 0.570 | 10.9 | 19.9 | 7.30 | 1.204 | 63.8 | 0.599 | 1.822 | 73.7 | 211.0 | --- | 2.913 | -10.53 | 0.534 | 57.6 | 115.1 | -15.3 | 0.313 |
| 4-2690 | 4-3330 | 0.558 | 10.6 | 23.8 | 8.89 | 1.207 | 65.1 | 0.591 | 1.843 | 70.4 | 212.9 | --- | 2.933 | -11.74 | 0.546 | 57.5 | 119.2 | -17.1 | 0.319 |
| 4-2690 | 4-3350 | 0.551 | 9.4 | 28.5 | 10.93 | 1.210 | 66.3 | 0.584 | 1.864 | 67.1 | 214.8 | --- | 2.953 | -13.42 | 0.558 | 57.3 | 123.7 | -19.4 | 0.328 |
| 4-2690 | 4-3370 | 0.554 | 6.8 | 34.4 | 13.73 | 1.212 | 67.6 | 0.577 | 1.885 | 63.7 | 216.7 | --- | 2.973 | -15.85 | 0.569 | 57.3 | 128.6 | -22.5 | 0.342 |
| 4-2690 | 4-3390 | 0.577 | 1.1 | 41.4 | 17.84 | 1.214 | 68.9 | 0.571 | 1.905 | 60.2 | 218.6 | --- | 2.994 | -19.60 | 0.581 | 57.2 | 134.3 | -26.8 | 0.364 |
| 4-2700 | 4-2840 | 1.302 | 353.8 | -9.6 | -21.74 | 1.171 | 19.3 | 0.952 | 1.579 | 153.4 | 171.4 | --- | --- | -23.54 | 0.399 | 157.5 | 89.1 | -6.1 | 0.577 |
| 4-2700 | 4-2860 | 1.234 | 354.9 | -8.6 | -16.80 | 1.149 | 22.3 | 0.933 | 1.460 | 150.3 | 172.7 | --- | --- | -18.90 | 0.323 | 147.8 | 87.0 | -6.3 | 0.507 |
| 4-2700 | 4-2880 | 1.180 | 356.0 | -7.7 | -13.45 | 1.137 | 25.1 | 0.914 | 1.405 | 147.2 | 174.1 | --- | --- | -15.85 | 0.273 | 136.1 | 84.9 | -6.5 | 0.456 |
| 4-2700 | 4-2900 | 1.135 | 357.2 | -6.7 | -11.02 | 1.132 | 27.6 | 0.896 | 1.382 | 144.2 | 175.5 | --- | --- | -13.72 | 0.244 | 123.1 | 83.1 | -6.7 | 0.419 |
| 4-2700 | 4-2920 | 1.096 | 358.4 | -5.8 | -9.15 | 1.131 | 29.9 | 0.878 | 1.376 | 141.2 | 177.0 | --- | --- | -12.16 | 0.234 | 110.2 | 81.5 | -6.8 | 0.391 |
| 4-2700 | 4-2940 | 1.062 | 359.5 | -4.9 | -7.66 | 1.132 | 32.0 | 0.861 | 1.381 | 138.2 | 178.6 | --- | --- | -10.99 | 0.236 | 98.8 | 80.3 | -6.9 | 0.371 |
| 4-2700 | 4-2960 | 1.030 | 0.7 | -4.0 | -6.42 | 1.135 | 33.9 | 0.845 | 1.393 | 135.2 | 180.1 | --- | 2.569 | -10.08 | 0.246 | 89.4 | 79.5 | -6.9 | 0.356 |
| 4-2700 | 4-2980 | 1.001 | 1.8 | -3.1 | -5.37 | 1.138 | 35.8 | 0.829 | 1.409 | 132.3 | 181.7 | --- | 2.576 | -9.36 | 0.261 | 82.0 | 79.1 | -7.0 | 0.345 |
| 4-2700 | 4-3000 | 0.973 | 3.0 | -2.2 | -4.45 | 1.142 | 37.6 | 0.814 | 1.428 | 129.4 | 183.2 | --- | 2.590 | -8.79 | 0.278 | 76.2 | 79.1 | -7.0 | 0.337 |
| 4-2700 | 4-3020 | 0.947 | 4.1 | -1.3 | -3.63 | 1.147 | 39.3 | 0.799 | 1.449 | 126.4 | 184.8 | --- | 2.607 | -8.33 | 0.297 | 71.8 | 79.5 | -7.1 | 0.331 |
| 4-2700 | 4-3040 | 0.922 | 5.2 | -0.3 | -2.89 | 1.151 | 40.9 | 0.785 | 1.472 | 123.5 | 186.4 | --- | 2.627 | -7.97 | 0.315 | 68.3 | 80.3 | -7.1 | 0.327 |
| 4-2700 | 4-3060 | 0.898 | 6.3 | 0.6 | -2.20 | 1.156 | 42.5 | 0.771 | 1.495 | 120.5 | 188.0 | --- | 2.648 | -7.68 | 0.334 | 65.6 | 81.5 | -7.2 | 0.323 |
| 4-2700 | 4-3080 | 0.874 | 7.3 | 1.6 | -1.56 | 1.161 | 44.0 | 0.758 | 1.520 | 117.6 | 189.6 | --- | 2.671 | -7.46 | 0.352 | 63.4 | 82.9 | -7.3 | 0.321 |
| 4-2700 | 4-3100 | 0.850 | 8.4 | 2.6 | -0.94 | 1.165 | 45.5 | 0.745 | 1.544 | 114.6 | 191.3 | --- | 2.694 | -7.29 | 0.369 | 61.7 | 84.6 | -7.4 | 0.319 |
| 4-2700 | 4-3120 | 0.828 | 9.4 | 3.7 | -0.34 | 1.170 | 47.0 | 0.732 | 1.569 | 111.7 | 192.9 | --- | 2.718 | -7.18 | 0.386 | 60.3 | 86.6 | -7.6 | 0.318 |
| 4-2700 | 4-3140 | 0.805 | 10.4 | 4.8 | 0.24 | 1.174 | 48.4 | 0.720 | 1.594 | 108.7 | 194.6 | --- | 2.742 | -7.11 | 0.403 | 59.1 | 88.8 | -7.7 | 0.318 |
| 4-2700 | 4-3160 | 0.783 | 11.4 | 5.9 | 0.83 | 1.178 | 49.8 | 0.708 | 1.619 | 105.7 | 196.2 | --- | 2.766 | -7.09 | 0.419 | 58.2 | 91.3 | -8.0 | 0.317 |
| 4-2700 | 4-3180 | 0.761 | 12.4 | 7.2 | 1.42 | 1.182 | 51.2 | 0.697 | 1.644 | 102.7 | 198.0 | --- | 2.789 | -7.12 | 0.435 | 57.5 | 93.9 | -8.2 | 0.318 |
| 4-2700 | 4-3200 | 0.739 | 13.4 | 8.5 | 2.03 | 1.186 | 52.6 | 0.686 | 1.668 | 99.6 | 199.7 | --- | 2.812 | -7.20 | 0.450 | 56.9 | 96.7 | -8.5 | 0.318 |
| 4-2700 | 4-3220 | 0.718 | 14.3 | 10.0 | 2.66 | 1.189 | 54.0 | 0.675 | 1.693 | 96.5 | 201.4 | --- | 2.835 | -7.34 | 0.465 | 56.4 | 99.8 | -8.9 | 0.319 |
| 4-2700 | 4-3240 | 0.697 | 15.2 | 11.6 | 3.33 | 1.193 | 55.4 | 0.665 | 1.717 | 93.4 | 203.2 | --- | 2.858 | -7.54 | 0.479 | 56.1 | 103.0 | -9.4 | 0.320 |
| 4-2700 | 4-3260 | 0.676 | 16.1 | 13.3 | 4.05 | 1.196 | 56.7 | 0.654 | 1.741 | 90.2 | 205.0 | --- | 2.880 | -7.82 | 0.493 | 55.8 | 106.3 | -9.9 | 0.322 |
| 4-2700 | 4-3280 | 0.656 | 16.8 | 15.3 | 4.85 | 1.199 | 58.1 | 0.645 | 1.764 | 87.0 | 206.8 | --- | 2.901 | -8.18 | 0.507 | 55.6 | 109.8 | -10.6 | 0.324 |
| 4-2700 | 4-3300 | 0.637 | 17.5 | 17.6 | 5.74 | 1.202 | 59.4 | 0.635 | 1.787 | 83.7 | 208.7 | --- | 2.922 | -8.66 | 0.520 | 55.5 | 113.6 | -11.4 | 0.326 |
| 4-2700 | 4-3320 | 0.619 | 18.0 | 20.2 | 6.77 | 1.205 | 60.8 | 0.626 | 1.810 | 80.4 | 210.5 | --- | 2.943 | -9.29 | 0.533 | 55.4 | 117.4 | -12.4 | 0.329 |
| 4-2700 | 4-3340 | 0.602 | 18.3 | 23.2 | 7.99 | 1.208 | 62.2 | 0.617 | 1.833 | 77.0 | 212.4 | --- | 2.964 | -10.12 | 0.546 | 55.4 | 121.5 | -13.7 | 0.334 |
| 4-2700 | 4-3360 | 0.588 | 18.2 | 26.9 | 9.49 | 1.211 | 63.5 | 0.608 | 1.855 | 73.6 | 214.3 | --- | 2.984 | -11.24 | 0.559 | 55.4 | 125.8 | -15.3 | 0.339 |
| 4-2700 | 4-3380 | 0.579 | 17.3 | 31.3 | 11.42 | 1.213 | 64.9 | 0.600 | 1.877 | 70.1 | 216.2 | --- | 3.004 | -12.78 | 0.571 | 55.5 | 130.4 | -17.4 | 0.347 |
| 4-2700 | 4-3400 | 0.578 | 15.1 | 36.8 | 14.01 | 1.216 | 66.3 | 0.592 | 1.899 | 66.5 | 218.0 | --- | 3.023 | -15.00 | 0.582 | 55.6 | 135.4 | -20.3 | 0.359 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2920 | 4-3140 | 0.811 | 57.2 | 19.6 | -0.34 | 1.282 | 128.6 | 0.811 | 3.009 | 271.2 | 497.0 | 0.568 | --- | -6.89 | 0.676 | 143.7 | 193.0 | -4.5 | 0.614 |
| 4-2920 | 4-3160 | 0.747 | 57.2 | 18.6 | -1.07 | 1.244 | 126.2 | 0.747 | 2.341 | 271.6 | 502.1 | 0.591 | --- | -6.40 | 0.605 | 138.2 | 194.5 | -4.9 | 0.530 |
| 4-2920 | 4-3180 | 0.696 | 57.2 | 17.5 | -1.72 | 1.217 | 124.2 | 0.697 | 2.018 | 272.0 | 507.3 | 0.611 | --- | -6.01 | 0.549 | 132.3 | 195.4 | -5.3 | 0.460 |
| 4-2920 | 4-3200 | 0.658 | 57.3 | 16.4 | -2.30 | 1.196 | 122.6 | 0.658 | 1.833 | 272.3 | 512.4 | 0.627 | --- | -5.70 | 0.506 | 126.2 | 195.8 | -5.8 | 0.401 |
| 4-2920 | 4-3220 | 0.628 | 57.4 | 15.4 | -2.83 | 1.181 | 121.4 | 0.628 | 1.718 | 272.6 | 517.5 | 0.639 | --- | -5.45 | 0.474 | 119.8 | 195.4 | -6.4 | 0.352 |
| 4-2920 | 4-3240 | 0.607 | 57.6 | 14.4 | -3.33 | 1.169 | 120.5 | 0.605 | 1.643 | 272.7 | 522.5 | 0.648 | --- | -5.26 | 0.451 | 113.3 | 194.2 | -7.0 | 0.311 |
| 4-2920 | 4-3260 | 0.593 | 57.9 | 13.5 | -3.81 | 1.161 | 119.8 | 0.589 | 1.592 | 272.6 | 527.4 | 0.654 | --- | -5.12 | 0.435 | 106.8 | 191.9 | -7.7 | 0.278 |
| 4-2920 | 4-3280 | 0.585 | 58.3 | 12.7 | -4.27 | 1.155 | 119.5 | 0.579 | 1.557 | 272.2 | 532.2 | 0.656 | --- | -5.02 | 0.426 | 100.5 | 188.6 | -8.3 | 0.253 |
| 4-2920 | 4-3300 | 0.583 | 58.8 | 12.0 | -4.72 | 1.151 | 119.4 | 0.574 | 1.534 | 271.6 | 536.7 | 0.654 | --- | -4.96 | 0.422 | 94.4 | 184.3 | -8.9 | 0.236 |
| 4-2920 | 4-3320 | 0.586 | 59.5 | 11.5 | -5.17 | 1.148 | 119.7 | 0.574 | 1.519 | 270.7 | 541.0 | 0.648 | 2.390 | -4.94 | 0.423 | 88.7 | 179.5 | -9.2 | 0.228 |
| 4-2920 | 4-3340 | 0.595 | 60.3 | 11.0 | -5.64 | 1.146 | 120.2 | 0.578 | 1.510 | 269.4 | 545.0 | 0.638 | 2.382 | -4.96 | 0.426 | 83.3 | 174.7 | -9.3 | 0.227 |
| 4-2920 | 4-3360 | 0.609 | 61.3 | 10.8 | -6.11 | 1.145 | 121.0 | 0.586 | 1.505 | 267.7 | 548.7 | 0.623 | 2.388 | -5.03 | 0.432 | 78.1 | 170.5 | -9.1 | 0.235 |
| 4-2920 | 4-3380 | 0.629 | 62.5 | 10.6 | -6.62 | 1.145 | 122.1 | 0.599 | 1.505 | 265.5 | 552.0 | 0.604 | 2.406 | -5.15 | 0.440 | 73.3 | 167.4 | -8.7 | 0.250 |
| 4-2920 | 4-3400 | 0.656 | 63.9 | 10.6 | -7.16 | 1.145 | 123.5 | 0.616 | 1.507 | 262.9 | 554.9 | 0.579 | 2.435 | -5.33 | 0.450 | 68.6 | 165.7 | -8.3 | 0.271 |
| 4-2920 | 4-3420 | 0.688 | 65.5 | 10.8 | -7.76 | 1.146 | 125.3 | 0.638 | 1.512 | 259.7 | 557.4 | 0.548 | 2.476 | -5.58 | 0.460 | 64.0 | 165.4 | -7.8 | 0.298 |
| 4-2920 | 4-3440 | 0.728 | 67.3 | 11.1 | -8.43 | 1.148 | 127.5 | 0.664 | 1.518 | 255.9 | 559.4 | 0.510 | 2.527 | -5.93 | 0.471 | 59.4 | 166.3 | -7.3 | 0.331 |
| 4-2920 | 4-3460 | 0.777 | 69.5 | 11.6 | -9.22 | 1.149 | 130.3 | 0.696 | 1.527 | 251.4 | 560.8 | 0.465 | 2.589 | -6.39 | 0.482 | 54.8 | 168.4 | -6.8 | 0.369 |
| 4-2920 | 4-3480 | 0.834 | 71.9 | 12.2 | -10.16 | 1.151 | 133.5 | 0.732 | 1.537 | 246.2 | 561.5 | 0.412 | 2.662 | -7.03 | 0.494 | 49.9 | 171.6 | -6.4 | 0.413 |
| 4-2920 | 4-3500 | 0.903 | 74.7 | 12.9 | -11.35 | 1.153 | 137.5 | 0.773 | 1.549 | 240.2 | 561.5 | 0.351 | 2.747 | -7.92 | 0.506 | 44.7 | 175.7 | -6.1 | 0.463 |
| 4-2920 | 4-3520 | 0.983 | 77.9 | 13.7 | -12.93 | 1.156 | 142.1 | 0.819 | 1.563 | 233.2 | 560.6 | 0.284 | 2.842 | -9.21 | 0.517 | 39.1 | 180.8 | -5.7 | 0.521 |
| 4-2920 | 4-3540 | 1.076 | 81.6 | 14.5 | -15.17 | 1.159 | 147.6 | 0.866 | 1.579 | 225.2 | 558.8 | 0.211 | 2.946 | -11.16 | 0.528 | 32.8 | 186.8 | -5.4 | 0.586 |
| 4-2930 | 4-3150 | 0.776 | 64.8 | 20.3 | -0.86 | 1.286 | 126.5 | 0.806 | 3.139 | 275.9 | 494.5 | 0.608 | --- | -6.44 | 0.688 | 142.9 | 196.7 | -4.3 | 0.615 |
| 4-2930 | 4-3170 | 0.711 | 64.7 | 19.0 | -1.63 | 1.248 | 124.1 | 0.738 | 2.413 | 276.4 | 499.7 | 0.632 | --- | -5.86 | 0.617 | 137.5 | 198.3 | -4.6 | 0.531 |
| 4-2930 | 4-3190 | 0.661 | 64.7 | 17.8 | -2.29 | 1.220 | 122.1 | 0.685 | 2.068 | 276.9 | 505.0 | 0.652 | --- | -5.40 | 0.562 | 131.8 | 199.5 | -4.9 | 0.461 |
| 4-2930 | 4-3210 | 0.621 | 64.7 | 16.6 | -2.86 | 1.199 | 120.5 | 0.643 | 1.872 | 277.4 | 510.3 | 0.668 | --- | -5.03 | 0.520 | 125.8 | 200.1 | -5.3 | 0.401 |
| 4-2930 | 4-3230 | 0.591 | 64.7 | 15.4 | -3.37 | 1.184 | 119.2 | 0.611 | 1.750 | 277.7 | 515.6 | 0.681 | --- | -4.74 | 0.488 | 119.6 | 200.1 | -5.7 | 0.351 |
| 4-2930 | 4-3250 | 0.569 | 64.8 | 14.4 | -3.83 | 1.172 | 118.2 | 0.586 | 1.670 | 278.0 | 520.7 | 0.691 | --- | -4.51 | 0.465 | 113.4 | 199.2 | -6.2 | 0.309 |
| 4-2930 | 4-3270 | 0.554 | 65.0 | 13.4 | -4.26 | 1.163 | 117.5 | 0.568 | 1.616 | 278.0 | 525.8 | 0.698 | --- | -4.34 | 0.450 | 107.3 | 197.3 | -6.8 | 0.275 |
| 4-2930 | 4-3290 | 0.545 | 65.3 | 12.5 | -4.66 | 1.157 | 117.1 | 0.556 | 1.579 | 277.8 | 530.7 | 0.701 | --- | -4.20 | 0.440 | 101.3 | 194.3 | -7.3 | 0.248 |
| 4-2930 | 4-3310 | 0.541 | 65.8 | 11.8 | -5.05 | 1.153 | 117.0 | 0.549 | 1.554 | 277.3 | 535.4 | 0.700 | --- | -4.10 | 0.436 | 95.5 | 190.3 | -7.8 | 0.229 |
| 4-2930 | 4-3330 | 0.543 | 66.3 | 11.2 | -5.43 | 1.150 | 117.1 | 0.547 | 1.538 | 276.5 | 539.9 | 0.696 | --- | -4.04 | 0.436 | 90.1 | 185.6 | -8.1 | 0.218 |
| 4-2930 | 4-3350 | 0.549 | 67.1 | 10.8 | -5.81 | 1.148 | 117.5 | 0.549 | 1.528 | 275.4 | 544.1 | 0.688 | 2.367 | -4.01 | 0.439 | 85.0 | 180.7 | -8.2 | 0.215 |
| 4-2930 | 4-3370 | 0.561 | 68.0 | 10.5 | -6.19 | 1.147 | 118.1 | 0.556 | 1.522 | 273.9 | 548.0 | 0.676 | 2.369 | -4.02 | 0.445 | 80.2 | 176.2 | -8.0 | 0.220 |
| 4-2930 | 4-3390 | 0.577 | 69.0 | 10.4 | -6.59 | 1.147 | 119.1 | 0.566 | 1.521 | 271.9 | 551.6 | 0.660 | 2.382 | -4.07 | 0.452 | 75.6 | 172.6 | -7.7 | 0.231 |
| 4-2930 | 4-3410 | 0.600 | 70.3 | 10.5 | -7.00 | 1.147 | 120.3 | 0.581 | 1.522 | 269.5 | 554.8 | 0.638 | 2.407 | -4.16 | 0.461 | 71.3 | 170.4 | -7.3 | 0.249 |
| 4-2930 | 4-3430 | 0.628 | 71.8 | 10.7 | -7.45 | 1.148 | 121.8 | 0.600 | 1.526 | 266.5 | 557.6 | 0.611 | 2.441 | -4.30 | 0.471 | 67.0 | 169.5 | -6.8 | 0.273 |
| 4-2930 | 4-3450 | 0.662 | 73.5 | 11.0 | -7.94 | 1.149 | 123.8 | 0.623 | 1.532 | 263.0 | 560.0 | 0.578 | 2.487 | -4.50 | 0.481 | 62.8 | 170.0 | -6.4 | 0.302 |
| 4-2930 | 4-3470 | 0.704 | 75.5 | 11.5 | -8.50 | 1.150 | 126.2 | 0.651 | 1.540 | 258.9 | 561.8 | 0.537 | 2.543 | -4.78 | 0.492 | 58.6 | 171.7 | -6.0 | 0.336 |
| 4-2930 | 4-3490 | 0.755 | 77.8 | 12.1 | -9.14 | 1.152 | 129.0 | 0.684 | 1.549 | 254.1 | 562.9 | 0.489 | 2.610 | -5.16 | 0.502 | 54.2 | 174.4 | -5.6 | 0.376 |
| 4-2930 | 4-3510 | 0.815 | 80.5 | 12.8 | -9.92 | 1.154 | 132.5 | 0.723 | 1.560 | 248.5 | 563.4 | 0.433 | 2.688 | -5.68 | 0.513 | 49.5 | 178.1 | -5.3 | 0.421 |
| 4-2930 | 4-3530 | 0.886 | 83.5 | 13.5 | 10.89 | 1.156 | 136.6 | 0.766 | 1.573 | 242.0 | 563.2 | 0.368 | 2.778 | -6.40 | 0.524 | 44.4 | 182.7 | -5.0 | 0.473 |
| 4-2930 | 4-3550 | 0.969 | 86.9 | 14.4 | -12.19 | 1.159 | 141.5 | 0.814 | 1.587 | 234.6 | 562.0 | 0.295 | 2.879 | -7.46 | 0.534 | 38.9 | 188.2 | -4.7 | 0.532 |
| 4-2930 | 4-3570 | 1.065 | 90.8 | 15.2 | -14.05 | 1.161 | 147.2 | 0.864 | 1.603 | 226.1 | 559.8 | 0.218 | 2.988 | -9.07 | 0.544 | 32.6 | 196.6 | -4.4 | 0.599 |
| 4-2940 | 4-3160 | 0.740 | 72.3 | 20.1 | -1.59 | 1.289 | 124.4 | 0.801 | 3.252 | 280.7 | 492.1 | 0.648 | --- | -5.73 | 0.697 | 142.1 | 200.3 | -4.0 | 0.614 |
| 4-2940 | 4-3180 | 0.675 | 72.2 | 18.6 | -2.40 | 1.251 | 122.0 | 0.729 | 2.476 | 281.3 | 497.5 | 0.672 | --- | -5.06 | 0.627 | 136.8 | 202.0 | -4.1 | 0.530 |
| 4-2940 | 4-3200 | 0.625 | 72.0 | 17.2 | -3.04 | 1.223 | 120.0 | 0.672 | 2.111 | 282.0 | 502.9 | 0.692 | --- | -4.55 | 0.573 | 131.2 | 203.4 | -4.3 | 0.459 |
| 4-2940 | 4-3220 | 0.586 | 71.9 | 15.9 | -3.58 | 1.202 | 118.4 | 0.628 | 1.906 | 282.5 | 508.3 | 0.709 | --- | -4.16 | 0.531 | 125.3 | 204.2 | -4.5 | 0.400 |
| 4-2940 | 4-3240 | 0.555 | 71.8 | 14.6 | -4.04 | 1.186 | 117.0 | 0.594 | 1.778 | 283.0 | 513.7 | 0.722 | --- | -3.85 | 0.500 | 119.4 | 204.4 | -4.8 | 0.349 |
| 4-2940 | 4-3260 | 0.533 | 71.8 | 13.5 | -4.45 | 1.175 | 116.0 | 0.568 | 1.695 | 283.3 | 519.1 | 0.733 | --- | -3.61 | 0.477 | 113.4 | 203.8 | -5.2 | 0.307 |
| 4-2940 | 4-3280 | 0.517 | 71.9 | 12.5 | -4.82 | 1.166 | 115.3 | 0.549 | 1.639 | 283.5 | 524.3 | 0.740 | --- | -3.41 | 0.462 | 107.5 | 202.2 | -5.5 | 0.272 |
| 4-2940 | 4-3300 | 0.507 | 72.2 | 11.6 | -5.15 | 1.160 | 114.8 | 0.535 | 1.600 | 283.4 | 529.4 | 0.744 | --- | -3.28 | 0.453 | 101.7 | 199.6 | -5.9 | 0.244 |
| 4-2940 | 4-3320 | 0.502 | 72.5 | 10.9 | -5.47 | 1.155 | 114.6 | 0.527 | 1.574 | 283.1 | 534.3 | 0.744 | --- | -3.15 | 0.449 | 96.3 | 195.8 | -6.3 | 0.223 |
| 4-2940 | 4-3340 | 0.502 | 73.0 | 10.3 | -5.77 | 1.152 | 114.7 | 0.523 | 1.556 | 282.4 | 539.0 | 0.742 | --- | -3.06 | 0.449 | 91.1 | 191.3 | -6.5 | 0.210 |
| 4-2940 | 4-3360 | 0.506 | 73.6 | 10.0 | -6.06 | 1.150 | 114.9 | 0.524 | 1.545 | 281.4 | 543.4 | 0.736 | 2.354 | -3.01 | 0.451 | 86.3 | 186.3 | -6.6 | 0.205 |
| 4-2940 | 4-3380 | 0.516 | 74.4 | 9.7 | -6.35 | 1.149 | 115.5 | 0.529 | 1.539 | 280.0 | 547.5 | 0.726 | 2.352 | -2.98 | 0.457 | 81.8 | 181.6 | -6.5 | 0.207 |
| 4-2940 | 4-3400 | 0.530 | 75.4 | 9.7 | -6.64 | 1.148 | 116.3 | 0.537 | 1.537 | 278.2 | 551.3 | 0.711 | 2.362 | -2.98 | 0.464 | 77.5 | 177.7 | -6.3 | 0.216 |
| 4-2940 | 4-3420 | 0.549 | 76.6 | 9.8 | -6.94 | 1.149 | 117.3 | 0.549 | 1.537 | 276.0 | 554.7 | 0.693 | 2.382 | -3.01 | 0.472 | 73.4 | 175.0 | -5.9 | 0.232 |
| 4-2940 | 4-3440 | 0.573 | 78.1 | 10.1 | -7.25 | 1.149 | 118.7 | 0.566 | 1.541 | 273.2 | 557.7 | 0.669 | 2.412 | -3.08 | 0.481 | 69.5 | 173.7 | -5.5 | 0.252 |
| 4-2940 | 4-3460 | 0.603 | 79.7 | 10.5 | -7.59 | 1.150 | 120.4 | 0.586 | 1.546 | 269.9 | 560.3 | 0.640 | 2.452 | -3.18 | 0.491 | 65.7 | 173.8 | -5.1 | 0.278 |
| 4-2940 | 4-3480 | 0.639 | 81.6 | 11.1 | -7.96 | 1.151 | 122.5 | 0.611 | 1.553 | 266.1 | 562.5 | 0.604 | 2.502 | -3.33 | 0.501 | 61.8 | 175.0 | -4.7 | 0.309 |
| 4-2940 | 4-3500 | 0.683 | 83.8 | 11.7 | -8.38 | 1.153 | 125.0 | 0.641 | 1.562 | 261.6 | 564.0 | 0.561 | 2.563 | -3.53 | 0.511 | 57.8 | 177.4 | -4.4 | 0.345 |
| 4-2940 | 4-3520 | 0.736 | 86.3 | 12.4 | -8.86 | 1.155 | 128.0 | 0.676 | 1.572 | 256.4 | 565.0 | 0.509 | 2.635 | -3.81 | 0.521 | 53.6 | 180.7 | -4.1 | 0.386 |
| 4-2940 | 4-3540 | 0.799 | 89.1 | 13.2 | -9.45 | 1.157 | 131.6 | 0.716 | 1.584 | 250.4 | 565.2 | 0.449 | 2.718 | -4.20 | 0.530 | 49.1 | 185.0 | -3.9 | 0.432 |
| 4-2940 | 4-3560 | 0.873 | 92.4 | 14.0 | -10.18 | 1.159 | 135.9 | 0.762 | 1.597 | 243.5 | 564.6 | 0.380 | 2.814 | -4.75 | 0.540 | 44.1 | 190.0 | -3.7 | 0.485 |
| 4-2940 | 4-3580 | 0.959 | 96.1 | 14.8 | -11.17 | 1.162 | 141.0 | 0.812 | 1.612 | 235.6 | 563.1 | 0.304 | 2.920 | -5.55 | 0.549 | 38.5 | 195.9 | -3.5 | 0.545 |
| 4-2940 | 4-3600 | 1.058 | 100.2 | 15.6 | -12.57 | 1.164 | 147.0 | 0.864 | 1.628 | 226.7 | 560.6 | 0.222 | 3.034 | -6.78 | 0.558 | 32.2 | 202.6 | -3.3 | 0.613 |
| 4-2950 | 4-3170 | 0.702 | 79.6 | 18.8 | -2.73 | 1.292 | 122.2 | 0.794 | 3.340 | 285.7 | 489.9 | 0.688 | --- | -4.55 | 0.704 | 141.1 | 203.8 | -3.3 | 0.610 |
| 4-2950 | 4-3190 | 0.639 | 79.4 | 17.1 | -3.52 | 1.254 | 119.8 | 0.718 | 2.527 | 286.4 | 495.4 | 0.711 | --- | -3.85 | 0.635 | 135.9 | 205.7 | -3.2 | 0.527 |
| 4-2950 | 4-3210 | 0.589 | 79.2 | 15.5 | -4.10 | 1.226 | 117.8 | 0.660 | 2.147 | 287.1 | 500.9 | 0.731 | --- | -3.35 | 0.582 | 130.4 | 207.1 | -3.3 | 0.456 |
| 4-2950 | 4-3230 | 0.550 | 78.9 | 14.0 | -4.56 | 1.205 | 116.2 | 0.613 | 1.935 | 287.8 | 506.5 | 0.748 | --- | -2.98 | 0.541 | 124.7 | 208.1 | -3.3 | 0.397 |
| 4-2950 | 4-3250 | 0.520 | 78.8 | 12.7 | -4.93 | 1.189 | 114.9 | 0.578 | 1.803 | 288.4 | 512.1 | 0.762 | --- | -2.70 | 0.510 | 118.9 | 208.5 | -3.5 | 0.346 |
| 4-2950 | 4-3270 | 0.498 | 78.6 | 11.6 | -5.25 | 1.177 | 113.9 | 0.550 | 1.717 | 288.9 | 517.6 | 0.772 | --- | -2.48 | 0.488 | 113.1 | 208.0 | -3.7 | 0.304 |
| 4-2950 | 4-3290 | 0.481 | 78.6 | 10.6 | -5.52 | 1.168 | 113.1 | 0.530 | 1.659 | 289.1 | 523.0 | 0.780 | --- | -2.31 | 0.473 | 107.4 | 206.7 | -3.9 | 0.268 |
| 4-2950 | 4-3310 | 0.471 | 78.7 | 9.8 | -5.77 | 1.162 | 112.6 | 0.515 | 1.618 | 289.2 | 528.3 | 0.784 | --- | -2.17 | 0.464 | 102.0 | 204.4 | -4.1 | 0.239 |
| 4-2950 | 4-3330 | 0.465 | 78.9 | 9.1 | -5.99 | 1.157 | 112.3 | 0.506 | 1.591 | 289.0 | 533.3 | 0.786 | --- | -2.07 | 0.460 | 96.8 | 200.9 | -4.3 | 0.218 |
| 4-2950 | 4-3350 | 0.464 | 79.3 | 8.6 | -6.20 | 1.154 | 112.3 | 0.501 | 1.573 | 288.4 | 538.1 | 0.784 | --- | -1.99 | 0.460 | 91.9 | 196.5 | -4.5 | 0.203 |
| 4-2950 | 4-3370 | 0.467 | 79.9 | 8.4 | -6.39 | 1.152 | 112.5 | 0.501 | 1.561 | 287.5 | 542.7 | 0.779 | 2.343 | -1.93 | 0.463 | 87.3 | 191.5 | -4.5 | 0.196 |
| 4-2950 | 4-3390 | 0.474 | 80.7 | 8.3 | -6.58 | 1.151 | 113.0 | 0.504 | 1.554 | 286.3 | 547.0 | 0.771 | 2.337 | -1.89 | 0.468 | 83.0 | 186.7 | -4.5 | 0.196 |
| 4-2950 | 4-3410 | 0.486 | 81.6 | 8.4 | -6.77 | 1.150 | 113.7 | 0.511 | 1.552 | 284.6 | 550.9 | 0.759 | 2.344 | -1.87 | 0.474 | 79.0 | 182.5 | -4.3 | 0.204 |
| 4-2950 | 4-3430 | 0.502 | 82.8 | 8.6 | -6.95 | 1.150 | 114.6 | 0.521 | 1.552 | 282.4 | 554.6 | 0.743 | 2.361 | -1.87 | 0.482 | 75.2 | 179.5 | -4.0 | 0.217 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2950 | 4-3450 | 0.523 | 84.1 | 9.0 | -7.15 | 1.151 | 115.8 | 0.535 | 1.555 | 279.8 | 557.8 | 0.722 | 2.387 | -1.88 | 0.491 | 71.5 | 177.9 | -3.7 | 0.235 |
| 4-2950 | 4-3470 | 0.549 | 85.8 | 9.6 | -7.35 | 1.152 | 117.3 | 0.553 | 1.560 | 276.7 | 560.6 | 0.697 | 2.423 | -1.92 | 0.500 | 68.0 | 177.6 | -3.4 | 0.259 |
| 4-2950 | 4-3490 | 0.581 | 87.6 | 10.2 | -7.56 | 1.153 | 119.1 | 0.576 | 1.566 | 273.1 | 563.0 | 0.665 | 2.468 | -1.98 | 0.509 | 64.4 | 178.5 | -3.2 | 0.286 |
| 4-2950 | 4-3510 | 0.619 | 89.7 | 11.0 | -7.80 | 1.155 | 121.4 | 0.602 | 1.575 | 268.8 | 564.9 | 0.626 | 2.523 | -2.08 | 0.519 | 60.8 | 180.6 | -3.0 | 0.319 |
| 4-2950 | 4-3530 | 0.666 | 92.2 | 11.8 | -8.06 | 1.156 | 124.0 | 0.634 | 1.584 | 263.9 | 566.2 | 0.580 | 2.588 | -2.21 | 0.528 | 57.0 | 183.6 | -2.7 | 0.355 |
| 4-2950 | 4-3550 | 0.721 | 94.9 | 12.6 | -8.37 | 1.158 | 127.2 | 0.670 | 1.595 | 258.3 | 566.9 | 0.526 | 2.665 | -2.38 | 0.537 | 53.0 | 187.5 | -2.6 | 0.397 |
| 4-2950 | 4-3570 | 0.786 | 98.0 | 13.5 | -8.74 | 1.160 | 131.0 | 0.713 | 1.608 | 251.9 | 566.8 | 0.462 | 2.753 | -2.63 | 0.546 | 48.6 | 192.2 | -2.4 | 0.445 |
| 4-2950 | 4-3590 | 0.862 | 101.5 | 14.3 | -9.21 | 1.162 | 135.5 | 0.760 | 1.621 | 244.6 | 565.9 | 0.389 | 2.854 | -2.98 | 0.554 | 43.6 | 197.7 | -2.3 | 0.499 |
| 4-2950 | 4-3610 | 0.952 | 105.4 | 15.1 | -9.84 | 1.165 | 140.8 | 0.812 | 1.637 | 236.3 | 564.0 | 0.308 | 2.965 | -3.49 | 0.562 | 38.1 | 203.9 | -2.2 | 0.560 |
| 4-2950 | 4-3630 | 1.055 | 109.8 | 15.7 | -10.75 | 1.168 | 147.1 | 0.865 | 1.654 | 226.9 | 561.1 | 0.223 | 3.085 | -4.29 | 0.569 | 31.7 | 211.0 | -2.0 | 0.628 |
| 4-2960 | 4-3180 | 0.666 | 86.8 | 15.3 | -4.81 | 1.293 | 119.9 | 0.786 | 3.397 | 290.7 | 487.8 | 0.728 | --- | -2.39 | 0.709 | 140.1 | 207.2 | -1.8 | 0.604 |
| 4-2960 | 4-3200 | 0.604 | 86.4 | 13.5 | -5.35 | 1.256 | 117.6 | 0.707 | 2.562 | 291.6 | 493.5 | 0.750 | --- | -1.88 | 0.642 | 135.0 | 209.1 | -1.6 | 0.521 |
| 4-2960 | 4-3220 | 0.556 | 86.1 | 12.0 | -5.71 | 1.228 | 115.6 | 0.646 | 2.175 | 292.4 | 499.2 | 0.770 | --- | -1.56 | 0.589 | 129.6 | 210.7 | -1.6 | 0.452 |
| 4-2960 | 4-3240 | 0.517 | 85.7 | 10.6 | -5.96 | 1.207 | 114.0 | 0.598 | 1.957 | 293.2 | 504.9 | 0.786 | --- | -1.33 | 0.549 | 124.0 | 211.8 | -1.5 | 0.393 |
| 4-2960 | 4-3260 | 0.488 | 85.3 | 9.4 | -6.16 | 1.191 | 112.7 | 0.561 | 1.823 | 294.0 | 510.7 | 0.800 | --- | -1.17 | 0.519 | 118.3 | 212.2 | -1.6 | 0.342 |
| 4-2960 | 4-3280 | 0.465 | 85.1 | 8.3 | -6.31 | 1.179 | 111.7 | 0.533 | 1.735 | 294.5 | 516.4 | 0.810 | --- | -1.05 | 0.498 | 112.7 | 212.0 | -1.6 | 0.300 |
| 4-2960 | 4-3300 | 0.448 | 84.9 | 7.5 | -6.44 | 1.171 | 110.9 | 0.512 | 1.676 | 295.0 | 521.9 | 0.818 | --- | -0.96 | 0.483 | 107.2 | 210.9 | -1.7 | 0.264 |
| 4-2960 | 4-3320 | 0.437 | 84.9 | 6.8 | -6.55 | 1.164 | 110.4 | 0.497 | 1.635 | 295.1 | 527.3 | 0.822 | --- | 0.89 | 0.475 | 102.0 | 208.7 | -1.8 | 0.235 |
| 4-2960 | 4-3340 | 0.430 | 85.0 | 6.3 | -6.65 | 1.160 | 110.1 | 0.487 | 1.607 | 295.0 | 532.5 | 0.824 | --- | -0.83 | 0.471 | 97.0 | 205.4 | -1.8 | 0.213 |
| 4-2960 | 4-3360 | 0.428 | 85.3 | 6.0 | -6.74 | 1.156 | 110.0 | 0.481 | 1.588 | 294.5 | 537.5 | 0.824 | --- | -0.79 | 0.470 | 92.3 | 201.1 | -1.9 | 0.197 |
| 4-2960 | 4-3380 | 0.430 | 85.8 | 6.0 | -6.82 | 1.154 | 110.2 | 0.480 | 1.576 | 293.7 | 542.2 | 0.820 | 2.332 | -0.75 | 0.473 | 88.0 | 196.2 | -1.9 | 0.189 |
| 4-2960 | 4-3400 | 0.436 | 86.5 | 6.1 | -6.90 | 1.153 | 110.6 | 0.482 | 1.569 | 292.6 | 546.6 | 0.813 | 2.324 | -0.73 | 0.478 | 83.9 | 191.3 | -1.8 | 0.188 |
| 4-2960 | 4-3420 | 0.445 | 87.4 | 6.4 | -6.97 | 1.153 | 111.2 | 0.487 | 1.566 | 290.9 | 550.7 | 0.803 | 2.329 | -0.71 | 0.484 | 80.1 | 186.9 | -1.8 | 0.193 |
| 4-2960 | 4-3440 | 0.459 | 88.6 | 6.9 | -7.04 | 1.153 | 112.0 | 0.496 | 1.566 | 288.9 | 554.5 | 0.789 | 2.343 | -0.70 | 0.492 | 76.6 | 183.7 | -1.6 | 0.205 |
| 4-2960 | 4-3460 | 0.477 | 90.0 | 7.5 | -7.12 | 1.153 | 113.1 | 0.509 | 1.568 | 286.4 | 557.9 | 0.771 | 2.366 | -0.70 | 0.500 | 73.2 | 181.8 | -1.5 | 0.221 |
| 4-2960 | 4-3480 | 0.500 | 91.6 | 8.2 | -7.19 | 1.154 | 114.5 | 0.524 | 1.573 | 283.4 | 560.9 | 0.748 | 2.398 | -0.71 | 0.509 | 69.9 | 181.3 | -1.4 | 0.242 |
| 4-2960 | 4-3500 | 0.528 | 93.4 | 9.0 | -7.27 | 1.155 | 116.1 | 0.544 | 1.579 | 279.9 | 563.5 | 0.720 | 2.439 | -0.72 | 0.518 | 66.6 | 182.0 | -1.3 | 0.268 |
| 4-2960 | 4-3520 | 0.562 | 95.6 | 9.9 | -7.35 | 1.156 | 118.1 | 0.568 | 1.587 | 275.9 | 565.6 | 0.686 | 2.489 | -0.74 | 0.526 | 63.3 | 183.8 | -1.2 | 0.297 |
| 4-2960 | 4-3540 | 0.602 | 97.9 | 10.8 | -7.44 | 1.158 | 120.5 | 0.596 | 1.597 | 271.2 | 567.2 | 0.645 | 2.548 | -0.78 | 0.535 | 59.9 | 186.6 | -1.1 | 0.330 |
| 4-2960 | 4-3560 | 0.651 | 100.6 | 11.8 | -7.54 | 1.160 | 123.3 | 0.629 | 1.607 | 265.9 | 568.2 | 0.596 | 2.618 | -0.83 | 0.543 | 56.3 | 190.2 | -1.0 | 0.368 |
| 4-2960 | 4-3580 | 0.708 | 103.6 | 12.7 | -7.66 | 1.162 | 126.7 | 0.667 | 1.619 | 259.9 | 568.6 | 0.538 | 2.700 | -0.90 | 0.551 | 52.4 | 194.6 | -1.0 | 0.411 |
| 4-2960 | 4-3600 | 0.776 | 107.0 | 13.6 | -7.80 | 1.164 | 130.6 | 0.711 | 1.632 | 253.1 | 568.2 | 0.471 | 2.793 | -0.99 | 0.559 | 48.0 | 199.8 | -0.9 | 0.460 |
| 4-2960 | 4-3620 | 0.855 | 110.8 | 14.3 | -7.98 | 1.166 | 135.3 | 0.760 | 1.647 | 245.4 | 566.9 | 0.395 | 2.898 | -1.13 | 0.566 | 43.1 | 205.7 | -0.8 | 0.514 |
| 4-2960 | 4-3640 | 0.948 | 114.9 | 15.0 | -8.22 | 1.169 | 140.8 | 0.813 | 1.662 | 236.7 | 564.8 | 0.310 | 3.014 | -1.32 | 0.572 | 37.5 | 212.2 | -0.8 | 0.576 |
| 4-2960 | 4-3660 | 1.053 | 119.5 | 15.4 | -8.57 | 1.171 | 147.3 | 0.868 | 1.680 | 227.0 | 561.5 | 0.222 | 3.138 | -1.63 | 0.578 | 31.2 | 219.5 | -0.8 | 0.644 |
| 4-2970 | 4-3190 | 0.644 | 94.1 | 5.7 | -9.84 | 1.294 | 117.5 | 0.776 | 3.418 | 296.0 | 486.0 | 0.767 | --- | 2.77 | 0.712 | 139.1 | 210.5 | 2.2 | 0.597 |
| 4-2970 | 4-3210 | 0.580 | 93.3 | 5.7 | -8.93 | 1.257 | 115.2 | 0.694 | 2.581 | 296.9 | 491.8 | 0.789 | --- | 1.87 | 0.646 | 133.9 | 212.4 | 1.7 | 0.515 |
| 4-2970 | 4-3230 | 0.529 | 92.7 | 5.2 | -8.45 | 1.229 | 113.3 | 0.632 | 2.192 | 297.9 | 497.7 | 0.807 | --- | 1.42 | 0.594 | 128.6 | 214.0 | 1.5 | 0.446 |
| 4-2970 | 4-3250 | 0.490 | 92.0 | 4.5 | -8.16 | 1.209 | 111.7 | 0.583 | 1.973 | 298.9 | 503.6 | 0.823 | --- | 1.15 | 0.555 | 123.1 | 215.2 | 1.4 | 0.387 |
| 4-2970 | 4-3270 | 0.460 | 91.5 | 3.8 | -7.96 | 1.193 | 110.4 | 0.545 | 1.838 | 299.7 | 509.5 | 0.836 | --- | 0.97 | 0.526 | 117.6 | 215.7 | 1.3 | 0.337 |
| 4-2970 | 4-3290 | 0.437 | 91.0 | 3.2 | -7.80 | 1.181 | 109.4 | 0.517 | 1.750 | 300.4 | 515.4 | 0.846 | --- | 0.84 | 0.506 | 112.1 | 215.6 | 1.3 | 0.295 |
| 4-2970 | 4-3310 | 0.419 | 90.7 | 2.7 | -7.69 | 1.173 | 108.7 | 0.495 | 1.690 | 301.0 | 521.1 | 0.853 | --- | 0.75 | 0.492 | 106.8 | 214.6 | 1.4 | 0.259 |
| 4-2970 | 4-3330 | 0.407 | 90.5 | 2.4 | -7.59 | 1.167 | 108.2 | 0.480 | 1.649 | 301.2 | 526.6 | 0.858 | --- | 0.68 | 0.484 | 101.7 | 212.5 | 1.4 | 0.230 |
| 4-2970 | 4-3350 | 0.400 | 90.5 | 2.3 | -7.51 | 1.162 | 107.9 | 0.469 | 1.620 | 301.2 | 532.0 | 0.860 | --- | 0.62 | 0.480 | 97.0 | 209.4 | 1.4 | 0.208 |
| 4-2970 | 4-3370 | 0.396 | 90.7 | 2.3 | -7.44 | 1.159 | 107.8 | 0.463 | 1.601 | 300.8 | 537.1 | 0.860 | --- | 0.58 | 0.480 | 92.5 | 205.2 | 1.4 | 0.192 |
| 4-2970 | 4-3390 | 0.397 | 91.1 | 2.6 | -7.37 | 1.157 | 107.9 | 0.461 | 1.589 | 300.1 | 541.9 | 0.857 | 2.321 | 0.55 | 0.482 | 88.4 | 200.3 | 1.4 | 0.183 |
| 4-2970 | 4-3410 | 0.401 | 91.8 | 3.0 | -7.32 | 1.155 | 108.3 | 0.462 | 1.582 | 299.0 | 546.4 | 0.851 | 2.313 | 0.52 | 0.487 | 84.5 | 195.4 | 1.4 | 0.181 |
| 4-2970 | 4-3430 | 0.408 | 92.7 | 3.6 | -7.26 | 1.155 | 108.8 | 0.466 | 1.579 | 297.4 | 550.6 | 0.842 | 2.315 | 0.50 | 0.493 | 81.0 | 190.9 | 1.3 | 0.185 |
| 4-2970 | 4-3450 | 0.420 | 93.9 | 4.4 | -7.21 | 1.155 | 109.6 | 0.474 | 1.579 | 295.5 | 554.5 | 0.830 | 2.327 | 0.49 | 0.501 | 77.6 | 187.6 | 1.2 | 0.195 |
| 4-2970 | 4-3470 | 0.435 | 95.3 | 5.3 | -7.16 | 1.155 | 110.6 | 0.485 | 1.581 | 293.0 | 558.0 | 0.815 | 2.348 | 0.48 | 0.509 | 74.5 | 185.5 | 1.1 | 0.210 |
| 4-2970 | 4-3490 | 0.455 | 97.0 | 6.3 | -7.11 | 1.156 | 111.8 | 0.499 | 1.586 | 290.1 | 561.2 | 0.795 | 2.377 | 0.48 | 0.517 | 71.4 | 184.8 | 1.0 | 0.230 |
| 4-2970 | 4-3510 | 0.480 | 99.0 | 7.4 | -7.06 | 1.157 | 113.3 | 0.516 | 1.592 | 286.7 | 563.9 | 0.770 | 2.414 | 0.48 | 0.525 | 68.4 | 185.3 | 0.9 | 0.253 |
| 4-2970 | 4-3530 | 0.509 | 101.1 | 8.5 | -7.00 | 1.159 | 115.1 | 0.537 | 1.600 | 282.8 | 566.2 | 0.740 | 2.460 | 0.49 | 0.534 | 65.4 | 187.0 | 0.9 | 0.280 |
| 4-2970 | 4-3550 | 0.545 | 103.6 | 9.6 | -6.94 | 1.160 | 117.2 | 0.563 | 1.609 | 278.4 | 568.0 | 0.704 | 2.514 | 0.51 | 0.542 | 62.3 | 189.6 | 0.8 | 0.310 |
| 4-2970 | 4-3570 | 0.588 | 106.3 | 10.7 | -6.88 | 1.162 | 119.8 | 0.592 | 1.619 | 273.3 | 569.3 | 0.660 | 2.578 | 0.54 | 0.550 | 59.1 | 193.0 | 0.7 | 0.344 |
| 4-2970 | 4-3590 | 0.639 | 109.3 | 11.7 | -6.81 | 1.164 | 122.7 | 0.627 | 1.631 | 267.6 | 570.0 | 0.609 | 2.653 | 0.57 | 0.557 | 55.6 | 197.2 | 0.7 | 0.383 |
| 4-2970 | 4-3610 | 0.699 | 112.6 | 12.6 | -6.73 | 1.166 | 126.3 | 0.667 | 1.643 | 261.2 | 570.0 | 0.548 | 2.739 | 0.62 | 0.564 | 51.7 | 202.1 | 0.6 | 0.426 |
| 4-2970 | 4-3630 | 0.769 | 116.2 | 13.5 | -6.63 | 1.168 | 130.4 | 0.712 | 1.657 | 254.0 | 569.3 | 0.477 | 2.837 | 0.68 | 0.570 | 47.4 | 207.7 | 0.6 | 0.475 |
| 4-2970 | 4-3650 | 0.851 | 120.2 | 14.1 | -6.50 | 1.170 | 135.3 | 0.762 | 1.672 | 245.9 | 567.8 | 0.398 | 2.947 | 0.78 | 0.576 | 42.5 | 213.9 | 0.6 | 0.530 |
| 4-2970 | 4-3670 | 0.946 | 124.6 | 14.6 | -6.34 | 1.173 | 141.0 | 0.816 | 1.689 | 236.9 | 565.3 | 0.310 | 3.067 | 0.92 | 0.581 | 36.9 | 220.8 | 0.5 | 0.591 |
| 4-2980 | 4-3200 | 0.880 | 112.2 | -30.6 | -36.08 | 1.294 | 115.1 | 0.764 | 3.399 | 301.1 | 484.5 | 0.803 | --- | 29.18 | 0.713 | 138.0 | 208.0 | 21.0 | 0.648 |
| 4-2980 | 4-3220 | 0.621 | 101.9 | -14.0 | -18.76 | 1.257 | 112.8 | 0.680 | 2.581 | 302.4 | 490.4 | 0.825 | --- | 11.93 | 0.648 | 132.8 | 214.5 | 10.9 | 0.519 |
| 4-2980 | 4-3240 | 0.535 | 99.5 | -8.7 | -14.18 | 1.230 | 111.0 | 0.616 | 2.198 | 303.6 | 496.4 | 0.843 | --- | 7.42 | 0.598 | 127.5 | 216.7 | 7.9 | 0.444 |
| 4-2980 | 4-3260 | 0.482 | 98.2 | -6.5 | -12.07 | 1.210 | 109.4 | 0.567 | 1.982 | 304.7 | 502.6 | 0.858 | --- | 5.39 | 0.560 | 122.1 | 218.1 | 6.7 | 0.384 |
| 4-2980 | 4-3280 | 0.445 | 97.2 | -5.4 | -10.85 | 1.195 | 108.2 | 0.529 | 1.848 | 305.7 | 508.7 | 0.870 | --- | 4.24 | 0.532 | 116.7 | 218.7 | 6.0 | 0.333 |
| 4-2980 | 4-3300 | 0.418 | 96.4 | -4.8 | -10.04 | 1.183 | 107.2 | 0.500 | 1.760 | 306.6 | 514.7 | 0.879 | --- | 3.51 | 0.512 | 111.4 | 218.7 | 5.8 | 0.291 |
| 4-2980 | 4-3320 | 0.398 | 95.8 | -4.4 | -9.45 | 1.175 | 106.5 | 0.479 | 1.701 | 307.2 | 520.6 | 0.886 | --- | 3.01 | 0.499 | 106.2 | 217.8 | 5.6 | 0.256 |
| 4-2980 | 4-3340 | 0.384 | 95.4 | -3.9 | -9.01 | 1.169 | 106.0 | 0.463 | 1.660 | 307.6 | 526.2 | 0.891 | --- | 2.64 | 0.491 | 101.3 | 215.8 | 5.6 | 0.227 |
| 4-2980 | 4-3360 | 0.374 | 95.2 | -3.4 | -8.65 | 1.164 | 105.7 | 0.453 | 1.632 | 307.7 | 531.7 | 0.893 | --- | 2.37 | 0.488 | 96.7 | 212.7 | 5.6 | 0.204 |
| 4-2980 | 4-3380 | 0.369 | 95.4 | -2.8 | -8.35 | 1.161 | 105.6 | 0.446 | 1.613 | 307.4 | 536.9 | 0.893 | --- | 2.17 | 0.488 | 92.5 | 208.6 | 5.6 | 0.188 |
| 4-2980 | 4-3400 | 0.367 | 95.8 | -2.0 | -8.09 | 1.159 | 105.7 | 0.444 | 1.601 | 306.7 | 541.8 | 0.890 | 2.311 | 2.01 | 0.491 | 88.5 | 203.8 | 5.5 | 0.179 |
| 4-2980 | 4-3420 | 0.370 | 96.4 | -1.0 | -7.86 | 1.158 | 106.0 | 0.444 | 1.594 | 305.6 | 546.4 | 0.885 | 2.302 | 1.89 | 0.496 | 84.9 | 198.9 | 5.3 | 0.176 |
| 4-2980 | 4-3440 | 0.375 | 97.4 | 0.0 | -7.65 | 1.157 | 106.5 | 0.448 | 1.591 | 304.1 | 550.7 | 0.878 | 2.304 | 1.80 | 0.502 | 81.5 | 194.4 | 5.0 | 0.179 |
| 4-2980 | 4-3460 | 0.384 | 98.7 | 1.2 | -7.46 | 1.157 | 107.2 | 0.455 | 1.591 | 302.1 | 554.7 | 0.867 | 2.314 | 1.73 | 0.509 | 78.4 | 191.0 | 4.6 | 0.189 |
| 4-2980 | 4-3480 | 0.397 | 100.2 | 2.5 | -7.27 | 1.158 | 108.2 | 0.464 | 1.593 | 299.7 | 558.2 | 0.854 | 2.333 | 1.68 | 0.517 | 75.4 | 188.9 | 4.2 | 0.202 |
| 4-2980 | 4-3500 | 0.414 | 102.0 | 3.9 | -7.10 | 1.159 | 109.3 | 0.477 | 1.598 | 296.9 | 561.5 | 0.836 | 2.360 | 1.66 | 0.525 | 72.6 | 188.1 | 3.8 | 0.220 |
| 4-2980 | 4-3520 | 0.435 | 104.1 | 5.3 | -6.92 | 1.160 | 110.7 | 0.492 | 1.605 | 293.5 | 564.3 | 0.815 | 2.394 | 1.65 | 0.533 | 69.8 | 188.6 | 3.4 | 0.241 |
| 4-2980 | 4-3540 | 0.462 | 106.4 | 6.6 | -6.74 | 1.161 | 112.3 | 0.511 | 1.612 | 289.7 | 566.7 | 0.788 | 2.436 | 1.66 | 0.541 | 67.1 | 190.1 | 3.1 | 0.266 |
| 4-2980 | 4-3560 | 0.493 | 109.0 | 8.0 | -6.55 | 1.163 | 114.3 | 0.533 | 1.621 | 285.4 | 568.7 | 0.756 | 2.486 | 1.70 | 0.548 | 64.3 | 192.6 | 2.9 | 0.294 |
| 4-2980 | 4-3580 | 0.531 | 111.8 | 9.3 | -6.35 | 1.164 | 116.5 | 0.560 | 1.632 | 280.5 | 570.2 | 0.718 | 2.545 | 1.75 | 0.556 | 61.4 | 196.0 | 2.6 | 0.325 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2980 | 4-3600 | 0.576 | 114.8 | 10.5 | -6.13 | 1.166 | 119.2 | 0.591 | 1.643 | 275.1 | 571.2 | 0.672 | 2.614 | 1.84 | 0.562 | 58.2 | 200.0 | 2.4 | 0.360 |
| 4-2980 | 4-3620 | 0.629 | 118.2 | 11.5 | -5.88 | 1.168 | 122.4 | 0.627 | 1.655 | 269.0 | 571.6 | 0.617 | 2.693 | 1.96 | 0.569 | 54.8 | 204.7 | 2.3 | 0.399 |
| 4-2980 | 4-3640 | 0.692 | 121.8 | 12.4 | -5.60 | 1.170 | 126.1 | 0.668 | 1.668 | 262.2 | 571.3 | 0.554 | 2.783 | 2.13 | 0.574 | 51.0 | 210.0 | 2.1 | 0.442 |
| 4-2980 | 4-3660 | 0.765 | 125.6 | 13.1 | -5.25 | 1.172 | 130.4 | 0.714 | 1.683 | 254.7 | 570.3 | 0.481 | 2.885 | 2.36 | 0.579 | 46.8 | 215.9 | 2.0 | 0.491 |
| 4-2980 | 4-3680 | 0.850 | 129.8 | 13.6 | -4.82 | 1.175 | 135.4 | 0.765 | 1.699 | 246.3 | 568.4 | 0.398 | 2.999 | 2.69 | 0.583 | 41.9 | 222.4 | 1.9 | 0.546 |
| 4-2990 | 4-3190 | 0.632 | 110.8 | 42.9 | 10.52 | 1.341 | 114.7 | 0.858 | 5.809 | 306.3 | 476.9 | 0.824 | --- | -17.31 | 0.792 | 141.4 | 212.7 | -12.3 | 0.690 |
| 4-2990 | 4-3250 | 0.731 | 113.6 | -37.6 | -32.14 | 1.231 | 108.7 | 0.601 | 2.192 | 309.2 | 495.6 | 0.875 | --- | 25.71 | 0.599 | 126.4 | 214.3 | 25.1 | 0.494 |
| 4-2990 | 4-3270 | 0.547 | 105.8 | -26.4 | -20.79 | 1.211 | 107.1 | 0.551 | 1.982 | 310.7 | 501.9 | 0.890 | --- | 14.48 | 0.562 | 121.0 | 219.1 | 17.7 | 0.397 |
| 4-2990 | 4-3290 | 0.469 | 102.9 | -20.5 | -16.19 | 1.196 | 105.9 | 0.513 | 1.852 | 312.0 | 508.2 | 0.901 | --- | 10.01 | 0.536 | 115.7 | 220.7 | 14.4 | 0.337 |
| 4-2990 | 4-3310 | 0.423 | 101.3 | -17.0 | -13.71 | 1.185 | 104.9 | 0.485 | 1.766 | 313.0 | 514.3 | 0.910 | --- | 7.66 | 0.517 | 110.5 | 221.0 | 12.8 | 0.292 |
| 4-2990 | 4-3330 | 0.392 | 100.1 | -14.7 | -12.14 | 1.177 | 104.2 | 0.464 | 1.708 | 313.8 | 520.4 | 0.916 | --- | 6.22 | 0.505 | 105.5 | 220.3 | 11.9 | 0.255 |
| 4-2990 | 4-3350 | 0.372 | 99.4 | -12.8 | -11.04 | 1.171 | 103.7 | 0.448 | 1.668 | 314.3 | 526.2 | 0.920 | --- | 5.26 | 0.498 | 100.7 | 218.4 | 11.5 | 0.225 |
| 4-2990 | 4-3370 | 0.358 | 99.1 | -11.1 | -10.21 | 1.166 | 103.5 | 0.438 | 1.641 | 314.4 | 531.7 | 0.922 | --- | 4.58 | 0.495 | 96.3 | 215.4 | 11.2 | 0.202 |
| 4-2990 | 4-3390 | 0.349 | 99.1 | -9.5 | -9.56 | 1.164 | 103.4 | 0.432 | 1.622 | 314.1 | 537.0 | 0.922 | --- | 4.08 | 0.496 | 92.3 | 211.4 | 10.9 | 0.186 |
| 4-2990 | 4-3410 | 0.344 | 99.5 | -7.9 | -9.03 | 1.162 | 103.5 | 0.429 | 1.611 | 313.5 | 542.0 | 0.920 | 2.301 | 3.71 | 0.499 | 88.5 | 206.6 | 10.5 | 0.177 |
| 4-2990 | 4-3430 | 0.343 | 100.2 | -6.2 | -8.57 | 1.161 | 103.8 | 0.429 | 1.604 | 312.4 | 546.7 | 0.916 | 2.293 | 3.42 | 0.503 | 85.0 | 201.8 | 9.9 | 0.173 |
| 4-2990 | 4-3450 | 0.346 | 101.2 | -4.5 | -8.17 | 1.160 | 104.3 | 0.432 | 1.602 | 310.9 | 551.0 | 0.909 | 2.294 | 3.20 | 0.510 | 81.9 | 197.4 | 9.2 | 0.176 |
| 4-2990 | 4-3470 | 0.353 | 102.6 | -2.7 | -7.81 | 1.160 | 105.0 | 0.438 | 1.602 | 308.9 | 555.0 | 0.900 | 2.304 | 3.04 | 0.517 | 78.9 | 194.0 | 8.4 | 0.184 |
| 4-2990 | 4-3490 | 0.363 | 104.3 | -0.9 | -7.47 | 1.161 | 105.8 | 0.447 | 1.605 | 306.5 | 558.6 | 0.888 | 2.321 | 2.92 | 0.524 | 76.1 | 192.0 | 7.6 | 0.197 |
| 4-2990 | 4-3510 | 0.377 | 106.4 | 0.9 | -7.15 | 1.161 | 106.9 | 0.458 | 1.610 | 303.7 | 561.9 | 0.873 | 2.346 | 2.84 | 0.532 | 73.5 | 191.2 | 6.8 | 0.214 |
| 4-2990 | 4-3530 | 0.395 | 108.6 | 2.7 | -6.84 | 1.163 | 108.2 | 0.471 | 1.616 | 300.4 | 564.8 | 0.854 | 2.378 | 2.79 | 0.540 | 70.9 | 191.7 | 6.1 | 0.233 |
| 4-2990 | 4-3550 | 0.418 | 111.2 | 4.5 | -6.54 | 1.164 | 109.7 | 0.488 | 1.624 | 296.6 | 567.3 | 0.831 | 2.417 | 2.78 | 0.547 | 68.4 | 193.2 | 5.5 | 0.256 |
| 4-2990 | 4-3570 | 0.446 | 114.0 | 6.1 | -6.23 | 1.165 | 111.5 | 0.508 | 1.633 | 292.4 | 569.4 | 0.803 | 2.464 | 2.80 | 0.555 | 65.9 | 195.6 | 5.0 | 0.281 |
| 4-2990 | 4-3590 | 0.480 | 117.0 | 7.6 | -5.91 | 1.167 | 113.6 | 0.532 | 1.644 | 287.6 | 571.0 | 0.769 | 2.518 | 2.86 | 0.561 | 63.3 | 198.9 | 4.6 | 0.310 |
| 4-2990 | 4-3610 | 0.520 | 120.2 | 9.0 | -5.57 | 1.169 | 116.0 | 0.560 | 1.655 | 282.3 | 572.2 | 0.729 | 2.581 | 2.95 | 0.568 | 60.5 | 202.8 | 4.3 | 0.341 |
| 4-2990 | 4-3630 | 0.567 | 123.6 | 10.2 | -5.20 | 1.171 | 118.9 | 0.592 | 1.667 | 276.5 | 572.8 | 0.680 | 2.654 | 3.10 | 0.573 | 57.4 | 207.4 | 4.0 | 0.376 |
| 4-2990 | 4-3650 | 0.622 | 127.3 | 11.2 | -4.78 | 1.173 | 122.1 | 0.629 | 1.680 | 270.1 | 572.9 | 0.624 | 2.737 | 3.31 | 0.578 | 54.1 | 212.5 | 3.7 | 0.415 |
| 4-2990 | 4-3670 | 0.687 | 131.1 | 11.9 | -4.29 | 1.175 | 126.0 | 0.671 | 1.694 | 263.0 | 572.3 | 0.558 | 2.831 | 3.59 | 0.582 | 50.4 | 218.1 | 3.5 | 0.459 |
| 4-2990 | 4-3690 | 0.763 | 135.2 | 12.4 | -3.71 | 1.177 | 130.4 | 0.718 | 1.709 | 255.1 | 571.0 | 0.482 | 2.937 | 3.99 | 0.586 | 46.1 | 224.3 | 3.3 | 0.507 |
| 4-3000 | 4-3180 | 0.645 | 113.1 | 29.6 | 3.90 | 1.401 | 114.5 | 0.99208.991 | | 310.9 | 469.6 | 0.839 | --- | -10.63 | 0.888 | 144.5 | 214.5 | -7.1 | 0.775 |
| 4-3000 | 4-3200 | 0.565 | 114.3 | 37.4 | 7.03 | 1.337 | 111.7 | 0.841 | 5.410 | 312.2 | 475.7 | 0.862 | --- | -13.59 | 0.786 | 140.0 | 216.2 | -10.3 | 0.667 |
| 4-3000 | 4-3220 | 0.534 | 119.6 | 51.2 | 12.63 | 1.290 | 109.3 | 0.728 | 3.247 | 313.7 | 481.9 | 0.882 | --- | -19.03 | 0.706 | 135.2 | 216.9 | -16.0 | 0.589 |
| 4-3000 | 4-3240 | 0.635 | 155.9 | 70.3 | 25.36 | 1.256 | 107.1 | 0.643 | 2.526 | 315.6 | 488.3 | 0.901 | --- | -31.59 | 0.645 | 130.0 | 213.4 | -27.1 | 0.568 |
| 4-3000 | 4-3280 | 0.988 | 135.4 | -56.2 | -50.85 | 1.211 | 105.0 | 0.537 | 1.975 | 316.2 | 501.6 | 0.915 | --- | 44.96 | 0.564 | 119.9 | 206.5 | 38.2 | 0.559 |
| 4-3000 | 4-3300 | 0.625 | 112.9 | -43.7 | -28.88 | 1.197 | 103.6 | 0.498 | 1.850 | 318.3 | 508.0 | 0.928 | --- | 23.16 | 0.538 | 114.6 | 218.5 | 29.9 | 0.386 |
| 4-3000 | 4-3320 | 0.490 | 106.9 | -34.9 | -20.76 | 1.186 | 102.6 | 0.470 | 1.767 | 319.7 | 514.4 | 0.937 | --- | 15.22 | 0.521 | 109.4 | 221.4 | 24.4 | 0.312 |
| 4-3000 | 4-3340 | 0.422 | 104.1 | -29.1 | -16.66 | 1.178 | 101.9 | 0.449 | 1.711 | 320.6 | 520.6 | 0.942 | --- | 11.30 | 0.509 | 104.6 | 221.5 | 21.4 | 0.265 |
| 4-3000 | 4-3360 | 0.382 | 102.7 | -24.8 | -14.17 | 1.173 | 101.5 | 0.435 | 1.673 | 321.2 | 526.5 | 0.946 | --- | 9.00 | 0.503 | 100.0 | 220.0 | 19.6 | 0.231 |
| 4-3000 | 4-3380 | 0.356 | 101.9 | -21.3 | -12.49 | 1.169 | 101.2 | 0.425 | 1.647 | 321.4 | 532.1 | 0.948 | --- | 7.51 | 0.501 | 95.7 | 217.2 | 18.5 | 0.206 |
| 4-3000 | 4-3400 | 0.339 | 101.7 | -18.3 | -11.25 | 1.166 | 101.2 | 0.419 | 1.630 | 321.2 | 537.5 | 0.948 | --- | 6.48 | 0.502 | 91.8 | 213.3 | 17.5 | 0.188 |
| 4-3000 | 4-3420 | 0.329 | 102.0 | -15.5 | -10.29 | 1.164 | 101.3 | 0.416 | 1.619 | 320.5 | 542.5 | 0.946 | 2.292 | 5.73 | 0.505 | 88.2 | 208.7 | 16.5 | 0.178 |
| 4-3000 | 4-3440 | 0.324 | 102.8 | -12.8 | -9.51 | 1.163 | 101.6 | 0.416 | 1.613 | 319.4 | 547.1 | 0.942 | 2.284 | 5.18 | 0.510 | 85.0 | 204.0 | 15.3 | 0.174 |
| 4-3000 | 4-3460 | 0.323 | 104.0 | -10.1 | -8.85 | 1.163 | 102.1 | 0.419 | 1.611 | 317.9 | 551.5 | 0.936 | 2.286 | 4.76 | 0.517 | 82.0 | 199.8 | 14.0 | 0.176 |
| 4-3000 | 4-3480 | 0.326 | 105.6 | -7.6 | -8.27 | 1.163 | 102.8 | 0.424 | 1.612 | 315.9 | 555.5 | 0.929 | 2.295 | 4.44 | 0.524 | 79.2 | 196.6 | 12.6 | 0.183 |
| 4-3000 | 4-3500 | 0.333 | 107.6 | -5.0 | -7.76 | 1.164 | 103.6 | 0.431 | 1.615 | 313.5 | 559.1 | 0.918 | 2.312 | 4.20 | 0.531 | 76.6 | 194.7 | 11.2 | 0.195 |
| 4-3000 | 4-3520 | 0.344 | 109.9 | -2.6 | -7.28 | 1.164 | 104.6 | 0.441 | 1.621 | 310.6 | 562.4 | 0.905 | 2.336 | 4.03 | 0.539 | 74.1 | 194.0 | 10.0 | 0.210 |
| 4-3000 | 4-3540 | 0.359 | 112.5 | -0.3 | -6.84 | 1.166 | 105.8 | 0.454 | 1.628 | 307.3 | 565.3 | 0.889 | 2.366 | 3.92 | 0.546 | 71.8 | 194.5 | 8.9 | 0.228 |
| 4-3000 | 4-3560 | 0.379 | 115.4 | 1.9 | -6.40 | 1.167 | 107.2 | 0.469 | 1.636 | 303.5 | 567.9 | 0.869 | 2.403 | 3.85 | 0.553 | 69.5 | 196.1 | 8.0 | 0.249 |
| 4-3000 | 4-3580 | 0.403 | 118.5 | 4.0 | -5.98 | 1.168 | 108.9 | 0.487 | 1.645 | 299.3 | 570.0 | 0.844 | 2.446 | 3.83 | 0.560 | 67.2 | 198.6 | 7.3 | 0.272 |
| 4-3000 | 4-3600 | 0.433 | 121.8 | 5.8 | -5.54 | 1.170 | 110.8 | 0.508 | 1.656 | 294.7 | 571.8 | 0.815 | 2.496 | 3.86 | 0.567 | 64.8 | 201.8 | 6.6 | 0.298 |
| 4-3000 | 4-3620 | 0.468 | 125.3 | 7.4 | -5.10 | 1.172 | 113.1 | 0.533 | 1.667 | 289.5 | 573.1 | 0.779 | 2.555 | 3.94 | 0.572 | 62.3 | 205.7 | 6.1 | 0.327 |
| 4-3000 | 4-3640 | 0.510 | 128.9 | 8.7 | -4.62 | 1.174 | 115.7 | 0.561 | 1.679 | 283.9 | 573.9 | 0.737 | 2.621 | 4.08 | 0.577 | 59.6 | 210.1 | 5.7 | 0.358 |
| 4-3000 | 4-3660 | 0.560 | 132.7 | 9.8 | -4.10 | 1.176 | 118.6 | 0.594 | 1.692 | 277.7 | 574.2 | 0.686 | 2.698 | 4.28 | 0.582 | 56.7 | 215.1 | 5.3 | 0.393 |
| 4-3000 | 4-3680 | 0.618 | 136.6 | 10.6 | -3.53 | 1.178 | 122.0 | 0.632 | 1.706 | 270.9 | 574.0 | 0.628 | 2.784 | 4.57 | 0.586 | 53.4 | 220.5 | 5.0 | 0.432 |
| 4-3000 | 4-3700 | 0.686 | 140.7 | 11.2 | -2.86 | 1.180 | 126.0 | 0.675 | 1.721 | 263.6 | 573.1 | 0.560 | 2.882 | 4.97 | 0.589 | 49.7 | 226.5 | 4.7 | 0.475 |
| 4-3010 | 4-3190 | 0.587 | 117.8 | 29.1 | 3.58 | 1.394 | 111.2 | 0.97129.986 | | 317.0 | 468.5 | 0.878 | --- | -10.07 | 0.875 | 143.1 | 217.4 | -7.0 | 0.752 |
| 4-3010 | 4-3210 | 0.508 | 118.2 | 35.4 | 5.69 | 1.332 | 108.6 | 0.819 | 4.951 | 318.5 | 474.8 | 0.898 | --- | -11.97 | 0.776 | 138.5 | 219.2 | -9.5 | 0.645 |
| 4-3010 | 4-3230 | 0.461 | 120.2 | 45.4 | 8.83 | 1.287 | 106.3 | 0.707 | 3.124 | 320.3 | 481.4 | 0.915 | --- | -14.90 | 0.699 | 133.7 | 220.5 | -13.4 | 0.561 |
| 4-3010 | 4-3250 | 0.461 | 128.7 | 60.0 | 14.06 | 1.254 | 104.4 | 0.624 | 2.472 | 322.2 | 488.1 | 0.930 | --- | -19.92 | 0.641 | 128.6 | 220.6 | -19.8 | 0.504 |
| 4-3010 | 4-3270 | 0.569 | 175.5 | 74.0 | 24.45 | 1.229 | 102.6 | 0.560 | 2.148 | 324.4 | 494.9 | 0.944 | --- | -30.10 | 0.596 | 123.3 | 216.9 | -30.3 | 0.495 |
| 4-3010 | 4-3290 | 0.980 | 234.6 | 56.4 | 51.06 | 1.211 | 100.9 | 0.511 | 1.960 | 327.5 | 501.7 | 0.958 | --- | -56.50 | 0.563 | 117.9 | 201.1 | -40.9 | 0.634 |
| 4-3010 | 4-3330 | 0.755 | 121.9 | -58.3 | -38.30 | 1.187 | 100.5 | 0.457 | 1.764 | 326.1 | 514.8 | 0.958 | --- | 33.30 | 0.523 | 108.3 | 214.2 | 40.6 | 0.419 |
| 4-3010 | 4-3350 | 0.540 | 109.7 | -47.8 | -25.61 | 1.180 | 99.7 | 0.497 | 1.711 | 327.6 | 521.1 | 0.964 | --- | 20.84 | 0.513 | 103.5 | 219.6 | 34.9 | 0.311 |
| 4-3010 | 4-3370 | 0.439 | 105.5 | -40.1 | -19.56 | 1.175 | 99.2 | 0.422 | 1.675 | 328.4 | 527.2 | 0.967 | --- | 15.03 | 0.508 | 99.1 | 219.9 | 30.7 | 0.255 |
| 4-3010 | 4-3390 | 0.383 | 103.7 | -34.1 | -16.04 | 1.171 | 99.0 | 0.413 | 1.651 | 328.7 | 532.9 | 0.969 | --- | 11.75 | 0.506 | 95.0 | 217.9 | 27.8 | 0.220 |
| 4-3010 | 4-3410 | 0.349 | 103.0 | -29.1 | -13.72 | 1.168 | 99.0 | 0.407 | 1.635 | 328.5 | 538.2 | 0.969 | --- | 9.68 | 0.508 | 91.2 | 214.4 | 25.6 | 0.198 |
| 4-3010 | 4-3430 | 0.327 | 103.2 | -24.7 | -12.06 | 1.167 | 99.1 | 0.405 | 1.625 | 327.8 | 543.2 | 0.967 | 2.283 | 8.27 | 0.511 | 87.8 | 210.0 | 23.5 | 0.184 |
| 4-3010 | 4-3450 | 0.314 | 104.0 | -20.7 | -10.78 | 1.166 | 99.4 | 0.405 | 1.620 | 326.7 | 547.9 | 0.964 | 2.277 | 7.27 | 0.517 | 84.7 | 205.6 | 21.4 | 0.179 |
| 4-3010 | 4-3470 | 0.307 | 105.4 | -16.9 | -9.76 | 1.166 | 99.9 | 0.408 | 1.619 | 325.1 | 552.2 | 0.959 | 2.279 | 6.53 | 0.523 | 81.9 | 201.6 | 19.2 | 0.179 |
| 4-3010 | 4-3490 | 0.305 | 107.3 | -13.3 | -8.90 | 1.166 | 100.6 | 0.412 | 1.621 | 323.0 | 556.1 | 0.953 | 2.289 | 5.98 | 0.530 | 79.3 | 198.7 | 17.0 | 0.185 |
| 4-3010 | 4-3510 | 0.308 | 109.7 | -9.9 | -8.16 | 1.167 | 101.4 | 0.419 | 1.625 | 320.6 | 559.7 | 0.944 | 2.306 | 5.57 | 0.537 | 76.8 | 197.0 | 15.1 | 0.195 |
| 4-3010 | 4-3530 | 0.315 | 112.5 | -6.7 | -7.50 | 1.168 | 102.4 | 0.428 | 1.631 | 317.6 | 563.0 | 0.933 | 2.329 | 5.26 | 0.545 | 74.6 | 196.5 | 13.3 | 0.209 |
| 4-3010 | 4-3550 | 0.327 | 115.5 | -3.7 | -6.89 | 1.169 | 103.5 | 0.439 | 1.638 | 314.3 | 565.9 | 0.919 | 2.357 | 5.04 | 0.552 | 72.4 | 197.2 | 11.8 | 0.226 |
| 4-3010 | 4-3570 | 0.343 | 118.9 | -0.9 | -6.32 | 1.170 | 104.9 | 0.453 | 1.647 | 310.5 | 568.5 | 0.901 | 2.392 | 4.89 | 0.559 | 70.3 | 198.9 | 10.6 | 0.245 |
| 4-3010 | 4-3590 | 0.364 | 122.4 | 1.5 | -5.78 | 1.172 | 106.5 | 0.469 | 1.656 | 306.3 | 570.7 | 0.880 | 2.433 | 4.80 | 0.565 | 68.2 | 201.4 | 9.5 | 0.266 |
| 4-3010 | 4-3610 | 0.390 | 126.2 | 3.7 | -5.24 | 1.173 | 108.3 | 0.487 | 1.667 | 301.7 | 572.5 | 0.855 | 2.480 | 4.78 | 0.571 | 66.0 | 204.6 | 8.6 | 0.290 |
| 4-3010 | 4-3630 | 0.422 | 130.0 | 5.6 | -4.69 | 1.175 | 110.3 | 0.509 | 1.679 | 296.6 | 573.9 | 0.823 | 2.534 | 4.82 | 0.577 | 63.8 | 208.5 | 7.9 | 0.316 |
| 4-3010 | 4-3650 | 0.459 | 133.9 | 7.1 | -4.13 | 1.177 | 112.7 | 0.535 | 1.691 | 291.1 | 574.8 | 0.786 | 2.596 | 4.92 | 0.581 | 61.4 | 212.9 | 7.3 | 0.344 |
| 4-3010 | 4-3670 | 0.504 | 137.9 | 8.4 | -3.54 | 1.179 | 115.4 | 0.564 | 1.704 | 285.1 | 575.3 | 0.742 | 2.666 | 5.09 | 0.585 | 58.8 | 217.7 | 6.8 | 0.375 |
| 4-3010 | 4-3690 | 0.556 | 142.0 | 9.3 | -2.89 | 1.181 | 118.5 | 0.598 | 1.718 | 278.7 | 575.4 | 0.690 | 2.746 | 5.35 | 0.589 | 55.9 | 223.1 | 6.4 | 0.410 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3010 | 4-3710 | 0.616 | 146.1 | 9.8 | -2.17 | 1.183 | 122.0 | 0.636 | 1.733 | 271.7 | 574.8 | 0.630 | 2.835 | 5.71 | 0.591 | 52.7 | 228.8 | 6.0 | 0.447 |
| 4-3020 | 4-3180 | 0.631 | 121.6 | 25.1 | 2.18 | 1.467 | 110.4 | 1.154 | -5.824 | 322.0 | 461.6 | 0.895 | --- | -8.65 | 0.984 | 145.8 | 218.0 | -5.6 | 0.859 |
| 4-3020 | 4-3200 | 0.528 | 121.3 | 29.1 | 3.42 | 1.385 | 107.7 | 0.942 | 15.863 | 323.5 | 467.8 | 0.914 | --- | -9.63 | 0.860 | 141.6 | 220.1 | -7.1 | 0.727 |
| 4-3020 | 4-3220 | 0.453 | 121.0 | 34.9 | 5.01 | 1.326 | 105.3 | 0.792 | 4.475 | 325.3 | 474.4 | 0.930 | --- | -10.96 | 0.764 | 137.0 | 222.0 | -9.2 | 0.621 |
| 4-3020 | 4-3240 | 0.405 | 121.5 | 43.4 | 7.14 | 1.283 | 103.2 | 0.683 | 2.977 | 327.3 | 481.3 | 0.945 | --- | -12.83 | 0.690 | 132.1 | 223.4 | -12.2 | 0.538 |
| 4-3020 | 4-3260 | 0.386 | 124.5 | 55.1 | 10.22 | 1.251 | 101.4 | 0.602 | 2.404 | 329.5 | 488.3 | 0.957 | --- | -15.66 | 0.634 | 127.0 | 224.1 | -16.7 | 0.474 |
| 4-3020 | 4-3280 | 0.411 | 138.0 | 69.4 | 15.09 | 1.228 | 99.8 | 0.541 | 2.110 | 331.8 | 495.4 | 0.968 | --- | -20.27 | 0.592 | 121.7 | 223.4 | -23.7 | 0.434 |
| 4-3020 | 4-3300 | 0.524 | 202.4 | 77.0 | 23.96 | 1.210 | 98.5 | 0.496 | 1.937 | 334.2 | 502.5 | 0.976 | --- | -28.89 | 0.560 | 116.5 | 219.4 | -33.8 | 0.436 |
| 4-3020 | 4-3320 | 0.843 | 245.3 | 59.7 | 43.75 | 1.197 | 97.2 | 0.461 | 1.828 | 337.1 | 509.6 | 0.985 | --- | -48.41 | 0.538 | 111.2 | 206.6 | -43.4 | 0.547 |
| 4-3020 | 4-3360 | 0.914 | 134.5 | -70.0 | -48.49 | 1.181 | 97.7 | 0.426 | 1.707 | 334.0 | 522.1 | 0.979 | --- | 44.35 | 0.515 | 102.5 | 208.2 | 46.2 | 0.487 |
| 4-3020 | 4-3380 | 0.607 | 110.9 | -58.4 | -30.52 | 1.176 | 97.0 | 0.412 | 1.674 | 335.6 | 528.2 | 0.984 | --- | 26.65 | 0.511 | 98.0 | 215.9 | 43.1 | 0.332 |
| 4-3020 | 4-3400 | 0.467 | 104.9 | -49.1 | -22.26 | 1.173 | 96.8 | 0.404 | 1.652 | 336.2 | 533.9 | 0.985 | --- | 18.66 | 0.510 | 94.1 | 216.6 | 38.7 | 0.260 |
| 4-3020 | 4-3420 | 0.391 | 103.0 | -41.7 | -17.63 | 1.171 | 96.8 | 0.399 | 1.638 | 336.1 | 539.3 | 0.985 | --- | 14.33 | 0.512 | 90.5 | 214.3 | 34.9 | 0.222 |
| 4-3020 | 4-3440 | 0.347 | 102.8 | -35.4 | -14.66 | 1.169 | 96.9 | 0.396 | 1.630 | 335.4 | 544.3 | 0.984 | 2.276 | 11.66 | 0.517 | 87.2 | 210.5 | 31.4 | 0.200 |
| 4-3020 | 4-3460 | 0.319 | 103.6 | -29.8 | -12.57 | 1.169 | 97.3 | 0.397 | 1.626 | 334.2 | 548.9 | 0.981 | 2.271 | 9.88 | 0.522 | 84.3 | 206.5 | 28.0 | 0.190 |
| 4-3020 | 4-3480 | 0.302 | 105.3 | -24.7 | -11.00 | 1.169 | 97.7 | 0.399 | 1.626 | 332.5 | 553.1 | 0.977 | 2.274 | 8.63 | 0.529 | 81.6 | 203.0 | 24.8 | 0.187 |
| 4-3020 | 4-3500 | 0.292 | 107.6 | -20.0 | -9.74 | 1.169 | 98.4 | 0.403 | 1.628 | 330.4 | 557.0 | 0.972 | 2.285 | 7.72 | 0.536 | 79.1 | 200.4 | 21.7 | 0.191 |
| 4-3020 | 4-3520 | 0.289 | 110.4 | -15.5 | -8.71 | 1.170 | 99.2 | 0.409 | 1.633 | 327.8 | 560.5 | 0.965 | 2.302 | 7.04 | 0.543 | 76.9 | 199.0 | 19.0 | 0.199 |
| 4-3020 | 4-3540 | 0.291 | 113.8 | -11.4 | -7.81 | 1.171 | 100.2 | 0.417 | 1.640 | 324.8 | 563.7 | 0.955 | 2.324 | 6.54 | 0.550 | 74.8 | 198.8 | 16.7 | 0.211 |
| 4-3020 | 4-3560 | 0.299 | 117.5 | -7.6 | -7.02 | 1.172 | 101.3 | 0.427 | 1.648 | 321.4 | 566.6 | 0.944 | 2.352 | 6.17 | 0.557 | 72.8 | 199.7 | 14.7 | 0.226 |
| 4-3020 | 4-3580 | 0.311 | 121.4 | -4.1 | -6.30 | 1.174 | 102.6 | 0.439 | 1.657 | 317.6 | 569.1 | 0.929 | 2.385 | 5.90 | 0.564 | 70.9 | 201.5 | 13.0 | 0.243 |
| 4-3020 | 4-3600 | 0.328 | 125.6 | -1.1 | -5.63 | 1.175 | 104.1 | 0.454 | 1.667 | 313.4 | 571.3 | 0.911 | 2.424 | 5.73 | 0.570 | 68.9 | 204.2 | 11.7 | 0.263 |
| 4-3020 | 4-3620 | 0.351 | 129.9 | 1.6 | -4.98 | 1.177 | 105.8 | 0.470 | 1.678 | 308.8 | 573.1 | 0.889 | 2.468 | 5.63 | 0.576 | 67.0 | 207.4 | 10.5 | 0.284 |
| 4-3020 | 4-3640 | 0.379 | 134.3 | 3.8 | -4.34 | 1.179 | 107.8 | 0.490 | 1.690 | 303.7 | 574.6 | 0.862 | 2.519 | 5.60 | 0.581 | 65.0 | 211.3 | 9.6 | 0.307 |
| 4-3020 | 4-3660 | 0.413 | 138.6 | 5.5 | -3.70 | 1.181 | 110.0 | 0.513 | 1.703 | 298.3 | 575.7 | 0.830 | 2.576 | 5.65 | 0.585 | 62.9 | 215.7 | 8.8 | 0.333 |
| 4-3020 | 4-3680 | 0.453 | 143.0 | 6.9 | -3.04 | 1.182 | 112.4 | 0.539 | 1.716 | 292.5 | 576.3 | 0.791 | 2.641 | 5.77 | 0.589 | 60.6 | 220.5 | 8.2 | 0.361 |
| 4-3020 | 4-3700 | 0.500 | 147.3 | 7.8 | -2.35 | 1.184 | 115.2 | 0.569 | 1.730 | 286.2 | 576.5 | 0.746 | 2.714 | 5.97 | 0.591 | 58.1 | 225.7 | 7.7 | 0.392 |
| 4-3020 | 4-3720 | 0.554 | 151.5 | 8.5 | -1.60 | 1.186 | 118.4 | 0.603 | 1.745 | 279.5 | 576.3 | 0.693 | 2.797 | 6.27 | 0.593 | 55.2 | 231.2 | 7.2 | 0.425 |
| 4-3030 | 4-3190 | 0.565 | 124.1 | 25.6 | 2.30 | 1.452 | 106.5 | 1.114 | -8.133 | 328.8 | 481.0 | 0.930 | --- | -8.47 | 0.961 | 144.3 | 220.6 | -5.7 | 0.827 |
| 4-3030 | 4-3210 | 0.470 | 123.2 | 29.7 | 3.35 | 1.374 | 104.0 | 0.907 | 10.199 | 330.6 | 467.6 | 0.946 | --- | -9.21 | 0.840 | 140.0 | 222.6 | -7.1 | 0.698 |
| 4-3030 | 4-3230 | 0.401 | 122.1 | 35.5 | 4.62 | 1.318 | 101.8 | 0.761 | 4.013 | 332.7 | 474.6 | 0.959 | --- | -10.18 | 0.748 | 135.4 | 224.4 | -9.0 | 0.596 |
| 4-3030 | 4-3250 | 0.356 | 121.1 | 43.4 | 6.22 | 1.277 | 99.8 | 0.656 | 2.817 | 335.1 | 481.8 | 0.970 | --- | -11.48 | 0.678 | 130.4 | 225.8 | -11.5 | 0.514 |
| 4-3030 | 4-3270 | 0.333 | 121.1 | 53.7 | 8.34 | 1.247 | 98.2 | 0.579 | 2.324 | 337.5 | 489.2 | 0.979 | --- | -13.30 | 0.625 | 125.3 | 226.7 | -15.2 | 0.449 |
| 4-3030 | 4-3290 | 0.338 | 124.6 | 66.1 | 11.31 | 1.225 | 96.8 | 0.522 | 2.063 | 340.0 | 496.6 | 0.986 | --- | -15.98 | 0.585 | 120.0 | 226.7 | -20.3 | 0.401 |
| 4-3030 | 4-3310 | 0.382 | 147.3 | 79.0 | 15.84 | 1.209 | 95.7 | 0.480 | 1.908 | 342.3 | 503.9 | 0.992 | --- | -20.21 | 0.556 | 114.8 | 225.2 | -27.7 | 0.376 |
| 4-3030 | 4-3330 | 0.496 | 235.4 | 78.4 | 23.64 | 1.197 | 94.7 | 0.449 | 1.809 | 344.7 | 511.1 | 0.996 | --- | -27.72 | 0.536 | 109.7 | 220.5 | -37.3 | 0.388 |
| 4-3030 | 4-3350 | 0.761 | 257.1 | 61.4 | 39.54 | 1.188 | 93.8 | 0.427 | 1.743 | 347.2 | 518.1 | 1.000 | --- | -43.32 | 0.523 | 104.8 | 209.7 | -45.6 | 0.486 |
| 4-3030 | 4-3390 | 1.075 | 156.5 | -79.3 | -58.60 | 1.178 | 95.2 | 0.405 | 1.670 | 341.8 | 529.4 | 0.993 | --- | 55.42 | 0.513 | 97.1 | 204.4 | 47.1 | 0.573 |
| 4-3030 | 4-3410 | 0.680 | 108.8 | -66.7 | -35.18 | 1.175 | 94.7 | 0.397 | 1.650 | 343.5 | 535.3 | 0.996 | --- | 32.31 | 0.513 | 93.1 | 212.0 | 48.0 | 0.369 |
| 4-3030 | 4-3430 | 0.497 | 102.1 | -55.8 | -24.57 | 1.173 | 94.6 | 0.392 | 1.639 | 343.8 | 540.7 | 0.996 | 2.281 | 22.02 | 0.516 | 89.6 | 212.8 | 44.2 | 0.278 |
| 4-3030 | 4-3450 | 0.402 | 100.8 | -47.1 | -18.83 | 1.172 | 94.7 | 0.390 | 1.632 | 343.1 | 545.6 | 0.995 | 2.269 | 16.61 | 0.521 | 86.5 | 210.4 | 39.6 | 0.233 |
| 4-3030 | 4-3470 | 0.346 | 101.5 | -39.8 | -15.24 | 1.171 | 95.1 | 0.391 | 1.630 | 341.9 | 550.1 | 0.993 | 2.267 | 13.36 | 0.527 | 83.7 | 207.1 | 35.0 | 0.211 |
| 4-3030 | 4-3490 | 0.311 | 103.3 | -33.3 | -12.75 | 1.172 | 95.6 | 0.393 | 1.631 | 340.1 | 554.2 | 0.990 | 2.272 | 11.23 | 0.534 | 81.1 | 204.0 | 30.6 | 0.202 |
| 4-3030 | 4-3510 | 0.290 | 106.1 | -27.3 | -10.91 | 1.172 | 96.2 | 0.397 | 1.635 | 337.9 | 558.0 | 0.986 | 2.283 | 9.75 | 0.541 | 78.9 | 201.9 | 26.8 | 0.201 |
| 4-3030 | 4-3530 | 0.278 | 109.5 | -21.7 | -9.45 | 1.173 | 97.0 | 0.402 | 1.641 | 335.2 | 561.5 | 0.981 | 2.300 | 8.69 | 0.548 | 76.8 | 200.8 | 23.0 | 0.206 |
| 4-3030 | 4-3550 | 0.274 | 113.6 | -16.5 | -8.26 | 1.174 | 98.0 | 0.409 | 1.648 | 332.1 | 564.6 | 0.973 | 2.323 | 7.91 | 0.555 | 74.8 | 200.9 | 20.0 | 0.216 |
| 4-3030 | 4-3570 | 0.276 | 118.1 | -11.8 | -7.24 | 1.176 | 99.1 | 0.418 | 1.657 | 328.6 | 567.4 | 0.964 | 2.350 | 7.33 | 0.562 | 73.0 | 202.1 | 17.5 | 0.229 |
| 4-3030 | 4-3590 | 0.283 | 122.8 | -7.5 | -6.34 | 1.177 | 100.4 | 0.429 | 1.667 | 324.7 | 569.8 | 0.952 | 2.381 | 6.91 | 0.569 | 71.2 | 204.0 | 15.4 | 0.244 |
| 4-3030 | 4-3610 | 0.297 | 127.8 | -3.8 | -5.52 | 1.179 | 101.8 | 0.442 | 1.678 | 320.5 | 572.0 | 0.937 | 2.418 | 6.61 | 0.575 | 69.5 | 206.8 | 13.7 | 0.261 |
| 4-3030 | 4-3630 | 0.316 | 132.9 | -0.6 | -4.76 | 1.181 | 103.5 | 0.456 | 1.689 | 315.8 | 573.8 | 0.918 | 2.460 | 6.40 | 0.580 | 67.7 | 210.2 | 12.3 | 0.281 |
| 4-3030 | 4-3650 | 0.340 | 137.9 | 1.9 | -4.03 | 1.182 | 105.3 | 0.474 | 1.702 | 310.8 | 575.3 | 0.895 | 2.508 | 6.29 | 0.584 | 65.9 | 214.1 | 11.2 | 0.302 |
| 4-3030 | 4-3670 | 0.370 | 142.9 | 3.9 | -3.32 | 1.184 | 107.4 | 0.494 | 1.715 | 305.5 | 576.4 | 0.868 | 2.562 | 6.26 | 0.588 | 64.1 | 218.4 | 10.2 | 0.325 |
| 4-3030 | 4-3690 | 0.407 | 147.7 | 5.4 | -2.60 | 1.186 | 109.7 | 0.517 | 1.728 | 299.8 | 577.1 | 0.834 | 2.622 | 6.32 | 0.591 | 62.0 | 223.2 | 9.5 | 0.350 |
| 4-3030 | 4-3710 | 0.449 | 152.3 | 6.5 | -1.87 | 1.188 | 112.2 | 0.544 | 1.742 | 293.7 | 577.5 | 0.795 | 2.690 | 6.45 | 0.594 | 59.8 | 228.3 | 8.8 | 0.377 |
| 4-3030 | 4-3730 | 0.498 | 156.8 | 7.1 | -1.10 | 1.190 | 115.1 | 0.574 | 1.757 | 287.2 | 577.4 | 0.748 | 2.766 | 6.68 | 0.596 | 57.3 | 233.7 | 8.2 | 0.406 |
| 4-3040 | 4-3180 | 0.622 | 126.1 | 23.3 | 1.63 | 1.540 | 104.8 | 1.360 | -2.631 | 334.4 | 454.6 | 0.948 | --- | -7.81 | 1.085 | 146.7 | 221.0 | -4.9 | 0.949 |
| 4-3040 | 4-3200 | 0.502 | 124.9 | 26.6 | 2.43 | 1.435 | 102.3 | 1.065 | 14.688 | 336.2 | 461.1 | 0.960 | --- | -8.24 | 0.933 | 142.7 | 223.0 | -5.9 | 0.791 |
| 4-3040 | 4-3220 | 0.415 | 123.0 | 31.1 | 3.34 | 1.361 | 100.0 | 0.866 | 7.243 | 338.3 | 468.1 | 0.972 | --- | -8.79 | 0.818 | 138.4 | 224.9 | -7.1 | 0.667 |
| 4-3040 | 4-3240 | 0.354 | 120.4 | 37.1 | 4.40 | 1.308 | 98.0 | 0.726 | 3.585 | 340.9 | 475.5 | 0.981 | --- | -9.50 | 0.730 | 133.6 | 226.6 | -8.8 | 0.568 |
| 4-3040 | 4-3260 | 0.315 | 117.5 | 44.8 | 5.67 | 1.270 | 96.3 | 0.627 | 2.649 | 343.6 | 483.1 | 0.989 | --- | -10.44 | 0.664 | 128.6 | 227.9 | -11.1 | 0.489 |
| 4-3040 | 4-3280 | 0.294 | 114.3 | 54.2 | 7.26 | 1.242 | 94.9 | 0.555 | 2.235 | 346.3 | 490.8 | 0.994 | --- | -11.69 | 0.614 | 123.4 | 228.7 | -14.1 | 0.425 |
| 4-3040 | 4-3300 | 0.294 | 111.6 | 64.8 | 9.32 | 1.222 | 93.7 | 0.503 | 2.009 | 349.0 | 498.5 | 0.998 | --- | -13.42 | 0.577 | 118.1 | 228.8 | -18.3 | 0.375 |
| 4-3040 | 4-3320 | 0.316 | 111.1 | 76.3 | 12.16 | 1.207 | 92.7 | 0.465 | 1.873 | 351.4 | 506.1 | 1.001 | --- | -15.93 | 0.550 | 112.9 | 227.9 | -24.1 | 0.341 |
| 4-3040 | 4-3340 | 0.370 | 153.5 | 87.8 | 16.37 | 1.196 | 92.0 | 0.438 | 1.785 | 353.6 | 513.3 | 1.003 | --- | -19.82 | 0.533 | 107.9 | 225.3 | -31.6 | 0.328 |
| 4-3040 | 4-3360 | 0.480 | 267.6 | 78.1 | 23.35 | 1.188 | 91.3 | 0.419 | 1.727 | 355.5 | 520.2 | 1.004 | --- | -26.47 | 0.522 | 103.2 | 220.1 | -40.5 | 0.348 |
| 4-3040 | 4-3380 | 0.709 | 269.4 | 62.7 | 36.75 | 1.183 | 90.7 | 0.405 | 1.688 | 357.4 | 526.8 | 1.004 | --- | -39.55 | 0.516 | 98.7 | 210.9 | -47.6 | 0.440 |
| 4-3040 | 4-3440 | 0.749 | 100.8 | -72.7 | -39.31 | 1.175 | 92.5 | 0.388 | 1.637 | 351.1 | 542.2 | 1.001 | 2.273 | 37.53 | 0.519 | 88.6 | 209.7 | 50.0 | 0.413 |
| 4-3040 | 4-3460 | 0.525 | 96.9 | -60.0 | -26.35 | 1.174 | 92.5 | 0.387 | 1.633 | 350.9 | 547.1 | 1.001 | 2.264 | 24.92 | 0.524 | 85.6 | 209.8 | 47.0 | 0.301 |
| 4-3040 | 4-3480 | 0.410 | 97.5 | -50.3 | -19.54 | 1.174 | 92.9 | 0.387 | 1.632 | 349.7 | 551.5 | 1.000 | 2.264 | 18.47 | 0.531 | 82.9 | 207.5 | 42.0 | 0.250 |
| 4-3040 | 4-3500 | 0.343 | 99.6 | -42.1 | -15.39 | 1.174 | 93.4 | 0.389 | 1.635 | 347.9 | 555.5 | 0.998 | 2.271 | 14.70 | 0.538 | 80.5 | 205.0 | 36.8 | 0.226 |
| 4-3040 | 4-3520 | 0.303 | 102.8 | -34.8 | -12.57 | 1.175 | 94.1 | 0.393 | 1.640 | 345.6 | 559.2 | 0.996 | 2.284 | 12.26 | 0.545 | 78.4 | 203.2 | 31.5 | 0.217 |
| 4-3040 | 4-3540 | 0.278 | 106.9 | -28.1 | -10.50 | 1.176 | 94.9 | 0.398 | 1.647 | 342.8 | 562.5 | 0.992 | 2.302 | 10.60 | 0.553 | 76.5 | 202.5 | 27.0 | 0.218 |
| 4-3040 | 4-3560 | 0.264 | 111.7 | -21.9 | -8.88 | 1.178 | 95.8 | 0.404 | 1.655 | 339.6 | 565.5 | 0.986 | 2.324 | 9.41 | 0.560 | 74.7 | 202.9 | 23.2 | 0.224 |
| 4-3040 | 4-3580 | 0.259 | 117.1 | -16.1 | -7.56 | 1.179 | 97.0 | 0.412 | 1.665 | 336.0 | 568.2 | 0.979 | 2.350 | 8.55 | 0.567 | 73.0 | 204.3 | 20.1 | 0.234 |
| 4-3040 | 4-3600 | 0.261 | 122.9 | -11.0 | -6.45 | 1.181 | 98.2 | 0.421 | 1.676 | 332.0 | 570.6 | 0.970 | 2.381 | 7.91 | 0.573 | 71.4 | 206.5 | 17.6 | 0.247 |
| 4-3040 | 4-3620 | 0.269 | 128.9 | -6.5 | -5.47 | 1.182 | 99.6 | 0.432 | 1.687 | 327.7 | 572.7 | 0.958 | 2.417 | 7.45 | 0.579 | 69.8 | 209.3 | 15.6 | 0.263 |
| 4-3040 | 4-3640 | 0.284 | 134.9 | -2.8 | -4.58 | 1.184 | 101.2 | 0.446 | 1.699 | 323.0 | 574.5 | 0.942 | 2.457 | 7.12 | 0.584 | 68.3 | 212.8 | 13.9 | 0.280 |
| 4-3040 | 4-3660 | 0.305 | 140.8 | 0.2 | -3.75 | 1.186 | 102.9 | 0.461 | 1.712 | 318.0 | 575.9 | 0.923 | 2.502 | 6.90 | 0.588 | 66.7 | 216.8 | 12.5 | 0.299 |
| 4-3040 | 4-3680 | 0.332 | 146.5 | 2.5 | -2.97 | 1.188 | 104.9 | 0.479 | 1.726 | 312.7 | 577.1 | 0.900 | 2.552 | 6.78 | 0.591 | 65.0 | 221.1 | 11.4 | 0.319 |
| 4-3040 | 4-3700 | 0.364 | 151.9 | 4.2 | -2.20 | 1.190 | 107.0 | 0.499 | 1.740 | 307.0 | 577.9 | 0.871 | 2.609 | 6.75 | 0.594 | 63.2 | 225.9 | 10.5 | 0.341 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3040 | 4-3720 | 0.403 | 157.1 | 5.3 | -1.44 | 1.192 | 109.4 | 0.523 | 1.755 | 301.0 | 578.3 | 0.837 | 2.672 | 6.81 | 0.596 | 61.2 | 231.0 | 9.8 | 0.365 |
| 4-3040 | 4-3740 | 0.447 | 161.9 | 5.9 | -0.65 | 1.194 | 112.1 | 0.549 | 1.770 | 294.7 | 578.4 | 0.797 | 2.742 | 6.95 | 0.597 | 59.1 | 236.3 | 9.1 | 0.391 |
| 4-3050 | 4-3190 | 0.553 | 125.5 | 24.6 | 1.85 | 1.514 | 100.1 | 1.288 | -3.388 | 342.1 | 454.8 | 0.975 | --- | -7.64 | 1.046 | 145.2 | 223.3 | -5.0 | 0.904 |
| 4-3050 | 4-3210 | 0.445 | 123.1 | 28.3 | 2.57 | 1.416 | 97.9 | 1.007 | 34.308 | 344.3 | 461.8 | 0.983 | --- | -7.95 | 0.901 | 141.2 | 225.2 | -6.0 | 0.752 |
| 4-3050 | 4-3230 | 0.369 | 119.5 | 33.3 | 3.38 | 1.347 | 95.9 | 0.819 | 5.477 | 346.9 | 469.3 | 0.990 | --- | -8.35 | 0.792 | 136.7 | 226.9 | -7.2 | 0.634 |
| 4-3050 | 4-3250 | 0.318 | 114.9 | 39.5 | 4.28 | 1.298 | 94.1 | 0.689 | 3.201 | 349.9 | 477.2 | 0.995 | --- | -8.87 | 0.709 | 131.8 | 228.3 | -8.7 | 0.539 |
| 4-3050 | 4-3270 | 0.286 | 109.3 | 46.7 | 5.33 | 1.262 | 92.6 | 0.597 | 2.482 | 353.0 | 485.3 | 0.999 | --- | -9.54 | 0.646 | 126.7 | 229.5 | -10.7 | 0.462 |
| 4-3050 | 4-3290 | 0.271 | 102.6 | 54.7 | 6.59 | 1.237 | 91.4 | 0.532 | 2.141 | 356.0 | 493.4 | 1.001 | --- | -10.42 | 0.600 | 121.4 | 230.1 | -13.4 | 0.400 |
| 4-3050 | 4-3310 | 0.270 | 94.9 | 63.0 | 8.13 | 1.218 | 90.4 | 0.486 | 1.950 | 358.9 | 501.3 | 1.002 | --- | -11.61 | 0.566 | 116.1 | 230.1 | -17.0 | 0.351 |
| 4-3050 | 4-3330 | 0.284 | 84.9 | 71.6 | 10.11 | 1.204 | 89.6 | 0.453 | 1.832 | 1.3 | 148.9 | --- | --- | -13.23 | 0.543 | 110.9 | 229.2 | -21.7 | 0.314 |
| 4-3050 | 4-3350 | 0.315 | 66.2 | 80.0 | 12.80 | 1.195 | 89.0 | 0.430 | 1.757 | 3.4 | 158.2 | --- | --- | -15.57 | 0.527 | 106.0 | 227.1 | -27.7 | 0.292 |
| 4-3050 | 4-3370 | 0.372 | 351.7 | 84.8 | 16.71 | 1.188 | 88.6 | 0.414 | 1.707 | 4.9 | 162.9 | --- | --- | -19.13 | 0.518 | 101.3 | 223.5 | -35.2 | 0.289 |
| 4-3050 | 4-3390 | 0.474 | 294.4 | 77.0 | 23.01 | 1.183 | 88.3 | 0.402 | 1.674 | 6.1 | 169.3 | --- | --- | -25.08 | 0.514 | 97.1 | 217.9 | -43.1 | 0.317 |
| 4-3050 | 4-3410 | 0.674 | 281.9 | 64.1 | 34.66 | 1.180 | 88.0 | 0.395 | 1.653 | 7.1 | 175.2 | --- | --- | -36.38 | 0.514 | 93.1 | 210.6 | -48.9 | 0.404 |
| 4-3050 | 4-3430 | 1.097 | 277.8 | 44.9 | 59.77 | 1.178 | 87.5 | 0.391 | 1.640 | 9.0 | 180.9 | --- | 2.281 | -61.13 | 0.517 | 89.4 | 204.5 | -46.8 | 0.620 |
| 4-3050 | 4-3470 | 0.808 | 84.8 | -75.9 | -42.65 | 1.176 | 90.5 | 0.386 | 1.631 | 358.1 | 548.7 | 1.002 | 2.261 | 42.01 | 0.527 | 84.6 | 209.8 | 50.3 | 0.457 |
| 4-3050 | 4-3490 | 0.544 | 90.5 | -61.7 | -27.45 | 1.176 | 90.7 | 0.387 | 1.633 | 357.4 | 553.0 | 1.002 | 2.264 | 27.19 | 0.534 | 82.0 | 208.6 | 47.9 | 0.326 |
| 4-3050 | 4-3510 | 0.412 | 94.0 | -51.2 | -19.70 | 1.177 | 91.2 | 0.388 | 1.637 | 355.7 | 556.9 | 1.001 | 2.273 | 19.83 | 0.542 | 79.8 | 206.3 | 42.4 | 0.268 |
| 4-3050 | 4-3530 | 0.337 | 98.0 | -42.3 | -15.08 | 1.178 | 91.9 | 0.392 | 1.643 | 353.3 | 560.4 | 1.000 | 2.287 | 15.61 | 0.549 | 77.8 | 204.7 | 36.5 | 0.243 |
| 4-3050 | 4-3550 | 0.292 | 102.8 | -34.4 | -12.00 | 1.179 | 92.7 | 0.396 | 1.652 | 350.4 | 563.6 | 0.998 | 2.305 | 12.94 | 0.557 | 76.0 | 204.3 | 31.0 | 0.235 |
| 4-3050 | 4-3570 | 0.265 | 108.3 | -27.2 | -9.77 | 1.181 | 93.7 | 0.401 | 1.661 | 347.1 | 566.5 | 0.995 | 2.328 | 11.14 | 0.564 | 74.4 | 204.9 | 26.4 | 0.236 |
| 4-3050 | 4-3590 | 0.250 | 114.6 | -20.5 | -8.04 | 1.183 | 94.8 | 0.408 | 1.672 | 343.4 | 569.1 | 0.990 | 2.354 | 9.86 | 0.570 | 72.9 | 206.4 | 22.7 | 0.242 |
| 4-3050 | 4-3610 | 0.244 | 121.4 | -14.4 | -6.64 | 1.184 | 96.0 | 0.416 | 1.684 | 339.3 | 571.4 | 0.983 | 2.384 | 8.94 | 0.577 | 71.4 | 208.8 | 19.6 | 0.253 |
| 4-3050 | 4-3630 | 0.247 | 128.6 | -9.1 | -5.46 | 1.186 | 97.4 | 0.426 | 1.696 | 334.9 | 573.4 | 0.974 | 2.419 | 8.27 | 0.582 | 70.0 | 211.8 | 17.2 | 0.266 |
| 4-3050 | 4-3650 | 0.257 | 135.7 | -4.7 | -4.43 | 1.188 | 99.0 | 0.437 | 1.709 | 330.2 | 575.1 | 0.961 | 2.457 | 7.78 | 0.587 | 68.6 | 215.4 | 15.3 | 0.281 |
| 4-3050 | 4-3670 | 0.274 | 142.7 | -1.2 | -3.50 | 1.190 | 100.7 | 0.451 | 1.723 | 325.2 | 576.6 | 0.946 | 2.500 | 7.43 | 0.591 | 67.2 | 219.4 | 13.7 | 0.297 |
| 4-3050 | 4-3690 | 0.297 | 149.4 | 1.4 | -2.64 | 1.192 | 102.5 | 0.467 | 1.737 | 319.8 | 577.7 | 0.927 | 2.547 | 7.21 | 0.594 | 65.7 | 223.8 | 12.4 | 0.315 |
| 4-3050 | 4-3710 | 0.326 | 155.7 | 3.2 | -1.83 | 1.194 | 104.5 | 0.485 | 1.752 | 314.2 | 578.5 | 0.903 | 2.600 | 7.08 | 0.596 | 64.1 | 228.6 | 11.4 | 0.335 |
| 4-3050 | 4-3730 | 0.361 | 161.4 | 4.3 | -1.03 | 1.196 | 106.8 | 0.505 | 1.766 | 308.3 | 579.0 | 0.874 | 2.659 | 7.04 | 0.598 | 62.4 | 233.6 | 10.5 | 0.356 |
| 4-3050 | 4-3750 | 0.401 | 166.9 | 4.9 | -0.24 | 1.198 | 109.2 | 0.529 | 1.782 | 302.2 | 579.2 | 0.840 | 2.724 | 7.10 | 0.599 | 60.5 | 238.9 | 9.8 | 0.379 |
| 4-3060 | 4-3180 | 0.633 | 125.0 | 23.3 | 1.44 | 1.619 | 97.1 | 1.610 | -1.618 | 348.8 | 449.1 | 0.987 | --- | -7.25 | 1.190 | 147.5 | 223.6 | -4.4 | 1.045 |
| 4-3060 | 4-3200 | 0.494 | 122.3 | 26.5 | 2.07 | 1.485 | 95.1 | 1.203 | -4.894 | 350.7 | 455.9 | 0.992 | --- | -7.39 | 1.003 | 143.8 | 225.3 | -5.1 | 0.856 |
| 4-3060 | 4-3220 | 0.400 | 117.9 | 30.7 | 2.73 | 1.394 | 93.2 | 0.943 | 17.339 | 353.4 | 463.5 | 0.996 | --- | -7.60 | 0.866 | 139.6 | 226.9 | -6.0 | 0.711 |
| 4-3060 | 4-3240 | 0.337 | 112.1 | 35.8 | 3.45 | 1.331 | 91.5 | 0.769 | 4.329 | 356.6 | 471.6 | 0.998 | --- | -7.87 | 0.762 | 134.9 | 228.4 | -7.1 | 0.598 |
| 4-3060 | 4-3260 | 0.297 | 104.9 | 41.5 | 4.25 | 1.286 | 90.0 | 0.651 | 2.865 | 0.0 | 120.0 | --- | --- | -8.24 | 0.685 | 129.9 | 229.7 | -8.5 | 0.507 |
| 4-3060 | 4-3280 | 0.275 | 96.7 | 47.4 | 5.13 | 1.253 | 88.7 | 0.570 | 2.319 | 3.5 | 128.5 | --- | --- | -8.72 | 0.627 | 124.6 | 230.5 | -10.4 | 0.434 |
| 4-3060 | 4-3300 | 0.266 | 87.8 | 53.2 | 6.16 | 1.230 | 87.7 | 0.513 | 2.045 | 6.8 | 138.9 | --- | --- | -9.34 | 0.584 | 119.2 | 230.9 | -12.8 | 0.375 |
| 4-3060 | 4-3320 | 0.267 | 78.6 | 58.8 | 7.36 | 1.213 | 86.9 | 0.473 | 1.886 | 9.7 | 144.9 | --- | --- | -10.16 | 0.554 | 113.9 | 230.5 | -15.8 | 0.327 |
| 4-3060 | 4-3340 | 0.277 | 68.9 | 64.3 | 8.84 | 1.201 | 86.3 | 0.445 | 1.788 | 12.1 | 152.6 | --- | --- | -11.25 | 0.534 | 108.7 | 229.4 | -19.8 | 0.291 |
| 4-3060 | 4-3360 | 0.296 | 57.1 | 70.0 | 10.72 | 1.193 | 85.9 | 0.426 | 1.724 | 13.8 | 159.6 | --- | --- | -12.76 | 0.521 | 103.8 | 227.2 | -24.8 | 0.266 |
| 4-3060 | 4-3380 | 0.328 | 38.7 | 75.5 | 13.24 | 1.187 | 85.6 | 0.412 | 1.683 | 15.0 | 166.2 | --- | --- | -14.91 | 0.514 | 99.3 | 223.9 | -30.8 | 0.255 |
| 4-3060 | 4-3400 | 0.381 | 2.4 | 79.0 | 16.85 | 1.183 | 85.5 | 0.403 | 1.656 | 15.7 | 172.2 | --- | --- | -18.16 | 0.512 | 95.2 | 219.4 | -37.6 | 0.260 |
| 4-3060 | 4-3420 | 0.472 | 317.0 | 76.0 | 22.57 | 1.180 | 85.5 | 0.397 | 1.640 | 15.9 | 177.8 | --- | --- | -23.51 | 0.513 | 91.5 | 214.2 | -44.3 | 0.293 |
| 4-3060 | 4-3440 | 0.647 | 294.4 | 66.0 | 32.87 | 1.179 | 85.5 | 0.394 | 1.631 | 16.0 | 183.0 | --- | 2.274 | -33.45 | 0.517 | 88.1 | 209.4 | -49.2 | 0.376 |
| 4-3060 | 4-3460 | 1.019 | 286.8 | 48.9 | 54.81 | 1.178 | 85.3 | 0.393 | 1.627 | 16.8 | 187.9 | --- | 2.267 | -55.02 | 0.523 | 84.9 | 207.5 | -48.2 | 0.572 |
| 4-3060 | 4-3500 | 0.851 | 66.2 | -75.7 | -45.01 | 1.179 | 88.7 | 0.388 | 1.631 | 4.5 | 194.5 | --- | 2.265 | 45.56 | 0.537 | 81.1 | 212.0 | 49.8 | 0.496 |
| 4-3060 | 4-3520 | 0.552 | 84.9 | -61.2 | -27.76 | 1.180 | 89.1 | 0.390 | 1.638 | 3.4 | 198.4 | --- | 2.277 | 28.69 | 0.544 | 79.0 | 209.2 | 47.6 | 0.347 |
| 4-3060 | 4-3540 | 0.406 | 91.7 | -50.0 | -19.25 | 1.181 | 89.7 | 0.393 | 1.646 | 1.1 | 201.7 | --- | 2.292 | 20.58 | 0.552 | 77.1 | 207.0 | 41.6 | 0.285 |
| 4-3060 | 4-3560 | 0.326 | 97.5 | -40.5 | -14.31 | 1.182 | 90.5 | 0.397 | 1.655 | 358.1 | 564.8 | 0.999 | 2.312 | 18.05 | 0.560 | 75.4 | 206.3 | 35.2 | 0.260 |
| 4-3060 | 4-3580 | 0.279 | 103.8 | -32.1 | -11.06 | 1.184 | 91.5 | 0.401 | 1.666 | 354.7 | 567.5 | 0.998 | 2.335 | 13.23 | 0.567 | 73.9 | 206.9 | 29.7 | 0.252 |
| 4-3060 | 4-3600 | 0.250 | 110.8 | -24.5 | -8.73 | 1.186 | 92.6 | 0.407 | 1.678 | 350.9 | 570.0 | 0.995 | 2.361 | 11.34 | 0.574 | 72.6 | 208.6 | 25.1 | 0.253 |
| 4-3060 | 4-3620 | 0.235 | 118.6 | -17.5 | -6.95 | 1.188 | 93.9 | 0.414 | 1.691 | 346.7 | 572.2 | 0.991 | 2.391 | 10.02 | 0.580 | 71.3 | 211.1 | 21.5 | 0.260 |
| 4-3060 | 4-3640 | 0.231 | 126.8 | -11.4 | -5.52 | 1.190 | 95.3 | 0.422 | 1.704 | 342.2 | 574.1 | 0.985 | 2.424 | 9.08 | 0.585 | 70.0 | 214.2 | 18.7 | 0.270 |
| 4-3060 | 4-3660 | 0.235 | 135.3 | -6.3 | -4.31 | 1.192 | 96.8 | 0.432 | 1.718 | 337.4 | 575.8 | 0.976 | 2.461 | 8.39 | 0.589 | 68.7 | 217.9 | 16.4 | 0.283 |
| 4-3060 | 4-3680 | 0.247 | 143.6 | -2.3 | -3.27 | 1.194 | 98.4 | 0.444 | 1.733 | 332.4 | 577.2 | 0.964 | 2.501 | 7.89 | 0.593 | 67.5 | 222.0 | 14.6 | 0.297 |
| 4-3060 | 4-3700 | 0.266 | 151.4 | 0.7 | -2.33 | 1.196 | 100.2 | 0.457 | 1.747 | 327.0 | 578.3 | 0.948 | 2.546 | 7.53 | 0.596 | 66.2 | 226.5 | 13.2 | 0.313 |
| 4-3060 | 4-3720 | 0.292 | 158.7 | 2.6 | -1.46 | 1.198 | 102.1 | 0.473 | 1.763 | 321.5 | 579.1 | 0.929 | 2.596 | 7.30 | 0.598 | 64.8 | 231.2 | 12.0 | 0.331 |
| 4-3060 | 4-3740 | 0.323 | 165.3 | 3.8 | -0.64 | 1.200 | 104.3 | 0.491 | 1.778 | 315.6 | 579.7 | 0.905 | 2.651 | 7.17 | 0.600 | 63.3 | 236.2 | 11.0 | 0.349 |
| 4-3060 | 4-3760 | 0.359 | 171.2 | 4.3 | 0.16 | 1.202 | 106.6 | 0.512 | 1.794 | 309.6 | 580.0 | 0.876 | 2.712 | 7.13 | 0.600 | 61.6 | 241.5 | 10.2 | 0.369 |
| 4-3070 | 4-3190 | 0.575 | 120.5 | 25.3 | 1.71 | 1.578 | 91.5 | 1.480 | -2.075 | 357.5 | 450.5 | 0.996 | --- | -7.02 | 1.132 | 146.3 | 225.3 | -4.5 | 0.986 |
| 4-3070 | 4-3210 | 0.454 | 115.7 | 28.9 | 2.30 | 1.455 | 89.9 | 1.109 | -9.164 | 0.3 | 98.1 | --- | --- | -7.07 | 0.956 | 142.4 | 226.8 | -5.1 | 0.806 |
| 4-3070 | 4-3230 | 0.376 | 109.1 | 33.1 | 2.92 | 1.372 | 88.3 | 0.874 | 7.888 | 3.6 | 106.3 | --- | --- | -7.18 | 0.826 | 138.0 | 228.2 | -5.9 | 0.669 |
| 4-3070 | 4-3250 | 0.328 | 101.0 | 37.5 | 3.57 | 1.314 | 86.9 | 0.719 | 3.537 | 7.5 | 115.1 | --- | --- | -7.35 | 0.730 | 133.1 | 229.5 | -7.0 | 0.561 |
| 4-3070 | 4-3270 | 0.300 | 92.2 | 41.8 | 4.27 | 1.273 | 85.7 | 0.616 | 2.574 | 11.4 | 124.0 | --- | --- | -7.59 | 0.657 | 127.9 | 230.4 | -8.3 | 0.475 |
| 4-3070 | 4-3290 | 0.286 | 83.5 | 45.6 | 5.04 | 1.243 | 84.7 | 0.546 | 2.165 | 15.2 | 132.9 | --- | --- | -7.92 | 0.604 | 122.5 | 230.9 | -10.0 | 0.406 |
| 4-3070 | 4-3310 | 0.282 | 75.4 | 49.2 | 5.89 | 1.223 | 83.9 | 0.498 | 1.949 | 18.6 | 141.4 | --- | --- | -8.35 | 0.566 | 116.9 | 230.8 | -12.1 | 0.350 |
| 4-3070 | 4-3330 | 0.284 | 68.2 | 52.6 | 6.86 | 1.208 | 83.3 | 0.465 | 1.821 | 21.4 | 149.4 | --- | --- | -8.91 | 0.540 | 111.5 | 230.0 | -14.8 | 0.305 |
| 4-3070 | 4-3350 | 0.291 | 61.6 | 56.3 | 8.00 | 1.197 | 82.9 | 0.442 | 1.741 | 23.5 | 156.8 | --- | --- | -9.66 | 0.523 | 106.4 | 228.4 | -18.1 | 0.270 |
| 4-3070 | 4-3370 | 0.302 | 55.1 | 60.4 | 9.39 | 1.190 | 82.6 | 0.427 | 1.690 | 24.9 | 163.6 | --- | --- | -10.68 | 0.513 | 101.5 | 225.8 | -22.3 | 0.245 |
| 4-3070 | 4-3390 | 0.321 | 47.6 | 65.1 | 11.14 | 1.185 | 82.5 | 0.416 | 1.657 | 25.6 | 169.8 | --- | --- | -12.03 | 0.508 | 97.1 | 222.3 | -27.1 | 0.231 |
| 4-3070 | 4-3410 | 0.349 | 36.2 | 70.2 | 13.48 | 1.182 | 82.6 | 0.409 | 1.636 | 25.8 | 175.5 | --- | --- | -13.99 | 0.508 | 93.1 | 218.1 | -32.5 | 0.228 |
| 4-3070 | 4-3430 | 0.394 | 14.9 | 74.8 | 16.79 | 1.180 | 82.8 | 0.404 | 1.625 | 25.4 | 180.6 | --- | 2.281 | -16.93 | 0.511 | 89.6 | 213.6 | -38.2 | 0.241 |
| 4-3070 | 4-3450 | 0.473 | 338.1 | 75.5 | 21.96 | 1.179 | 83.0 | 0.401 | 1.620 | 24.6 | 185.4 | --- | 2.269 | -21.73 | 0.516 | 86.4 | 209.7 | -43.8 | 0.276 |
| 4-3070 | 4-3470 | 0.625 | 307.5 | 68.4 | 31.15 | 1.179 | 83.3 | 0.400 | 1.619 | 23.7 | 189.8 | --- | 2.266 | -30.54 | 0.523 | 83.6 | 207.7 | -48.4 | 0.353 |
| 4-3070 | 4-3490 | 0.955 | 295.5 | 53.0 | 50.66 | 1.180 | 83.4 | 0.400 | 1.622 | 23.2 | 194.0 | --- | 2.272 | -49.69 | 0.531 | 81.0 | 209.8 | -48.8 | 0.531 |
| 4-3070 | 4-3530 | 0.877 | 55.0 | -72.8 | -46.30 | 1.182 | 87.1 | 0.394 | 1.637 | 10.3 | 199.7 | --- | 2.282 | 48.03 | 0.547 | 78.1 | 215.6 | 48.9 | 0.528 |
| 4-3070 | 4-3550 | 0.547 | 81.8 | -58.8 | -27.22 | 1.183 | 87.6 | 0.397 | 1.647 | 8.6 | 203.0 | --- | 2.300 | 29.34 | 0.555 | 76.2 | 211.2 | 46.5 | 0.364 |
| 4-3070 | 4-3570 | 0.393 | 91.2 | -47.0 | -18.19 | 1.185 | 88.4 | 0.400 | 1.658 | 5.8 | 206.0 | --- | 2.321 | 20.70 | 0.563 | 74.7 | 209.2 | 39.8 | 0.299 |
| 4-3070 | 4-3590 | 0.310 | 98.7 | -36.9 | -13.07 | 1.187 | 89.3 | 0.404 | 1.670 | 2.3 | 208.6 | --- | 2.344 | 15.99 | 0.570 | 73.3 | 209.3 | 33.2 | 0.275 |
| 4-3070 | 4-3610 | 0.263 | 106.3 | -28.0 | -9.77 | 1.189 | 90.5 | 0.408 | 1.683 | 358.4 | 570.9 | 0.996 | 2.371 | 13.11 | 0.576 | 72.1 | 210.9 | 27.7 | 0.268 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3070 | 4-3630 | 0.235 | 114.7 | -20.1 | -7.43 | 1.191 | 91.7 | 0.414 | 1.697 | 354.1 | 573.0 | 0.995 | 2.400 | 11.21 | 0.582 | 70.9 | 213.4 | 23.3 | 0.270 |
| 4-3070 | 4-3650 | 0.222 | 123.9 | -13.1 | -5.65 | 1.193 | 93.1 | 0.421 | 1.712 | 349.6 | 574.8 | 0.991 | 2.432 | 9.89 | 0.587 | 69.8 | 216.6 | 20.0 | 0.277 |
| 4-3070 | 4-3670 | 0.219 | 133.5 | -7.2 | -4.23 | 1.195 | 94.6 | 0.429 | 1.727 | 344.7 | 576.4 | 0.985 | 2.468 | 8.94 | 0.592 | 68.7 | 220.4 | 17.4 | 0.287 |
| 4-3070 | 4-3690 | 0.226 | 143.2 | -2.6 | -3.04 | 1.197 | 96.2 | 0.439 | 1.742 | 339.6 | 577.7 | 0.977 | 2.507 | 8.26 | 0.595 | 67.6 | 224.6 | 15.3 | 0.299 |
| 4-3070 | 4-3710 | 0.240 | 152.4 | 0.7 | -2.01 | 1.200 | 97.9 | 0.451 | 1.758 | 334.3 | 578.8 | 0.965 | 2.550 | 7.76 | 0.598 | 66.5 | 229.1 | 13.7 | 0.313 |
| 4-3070 | 4-3730 | 0.262 | 160.9 | 2.8 | -1.09 | 1.202 | 99.8 | 0.464 | 1.773 | 328.7 | 579.6 | 0.950 | 2.597 | 7.41 | 0.600 | 65.2 | 233.8 | 12.4 | 0.328 |
| 4-3070 | 4-3750 | 0.289 | 168.5 | 3.9 | -0.24 | 1.204 | 101.8 | 0.480 | 1.789 | 322.9 | 580.2 | 0.931 | 2.648 | 7.18 | 0.601 | 63.9 | 238.8 | 11.3 | 0.344 |
| 4-3070 | 4-3770 | 0.322 | 175.2 | 4.3 | 0.55 | 1.206 | 104.0 | 0.498 | 1.806 | 316.9 | 580.6 | 0.907 | 2.705 | 7.05 | 0.602 | 62.5 | 244.0 | 10.4 | 0.361 |
| 4-3080 | 4-3200 | 0.543 | 113.3 | 27.4 | 2.00 | 1.535 | 85.6 | 1.340 | -2.910 | 7.7 | 93.1 | --- | --- | -6.69 | 1.070 | 145.3 | 226.5 | -4.4 | 0.925 |
| 4-3080 | 4-3220 | 0.441 | 106.3 | 30.9 | 2.57 | 1.423 | 84.3 | 1.0118 | 8.322 | 11.2 | 101.5 | --- | --- | -6.67 | 0.905 | 141.1 | 227.8 | -5.0 | 0.755 |
| 4-3080 | 4-3240 | 0.380 | 98.1 | 34.4 | 3.14 | 1.347 | 83.1 | 0.806 | 5.038 | 15.4 | 110.6 | --- | --- | -6.70 | 0.783 | 136.5 | 228.9 | -5.8 | 0.626 |
| 4-3080 | 4-3260 | 0.346 | 89.4 | 37.4 | 3.74 | 1.295 | 82.0 | 0.673 | 2.969 | 19.8 | 120.0 | --- | -- | -6.77 | 0.694 | 131.3 | 229.8 | -6.7 | 0.524 |
| 4-3080 | 4-3280 | 0.327 | 81.2 | 40.0 | 4.36 | 1.258 | 81.1 | 0.586 | 2.324 | 24.1 | 129.3 | --- | --- | -6.91 | 0.627 | 125.8 | 230.3 | -7.9 | 0.443 |
| 4-3080 | 4-3300 | 0.319 | 74.2 | 42.2 | 5.02 | 1.233 | 80.4 | 0.529 | 2.023 | 28.0 | 138.4 | --- | --- | -7.11 | 0.580 | 120.2 | 230.4 | -9.4 | 0.378 |
| 4-3080 | 4-3320 | 0.317 | 68.4 | 44.4 | 5.74 | 1.214 | 79.8 | 0.490 | 1.855 | 31.3 | 146.8 | --- | --- | -7.39 | 0.546 | 114.5 | 229.8 | -11.3 | 0.326 |
| 4-3080 | 4-3340 | 0.318 | 63.7 | 46.7 | 6.53 | 1.202 | 79.5 | 0.464 | 1.755 | 33.7 | 154.5 | --- | --- | -7.77 | 0.524 | 109.0 | 228.4 | -13.6 | 0.284 |
| 4-3080 | 4-3360 | 0.322 | 59.9 | 49.3 | 7.44 | 1.193 | 79.3 | 0.446 | 1.692 | 35.3 | 161.5 | --- | --- | -8.27 | 0.510 | 103.8 | 226.2 | -16.5 | 0.252 |
| 4-3080 | 4-3380 | 0.328 | 56.5 | 52.5 | 8.50 | 1.187 | 79.2 | 0.434 | 1.653 | 36.2 | 167.9 | --- | --- | -8.94 | 0.503 | 99.0 | 223.1 | -19.7 | 0.228 |
| 4-3080 | 4-3400 | 0.336 | 53.0 | 56.3 | 9.78 | 1.183 | 79.3 | 0.425 | 1.628 | 36.4 | 173.6 | --- | --- | -9.83 | 0.502 | 94.7 | 219.3 | -23.5 | 0.214 |
| 4-3080 | 4-3420 | 0.350 | 48.8 | 60.8 | 11.38 | 1.181 | 79.6 | 0.419 | 1.614 | 36.0 | 178.8 | --- | --- | -11.06 | 0.504 | 90.9 | 215.0 | -27.5 | 0.209 |
| 4-3080 | 4-3440 | 0.372 | 42.1 | 66.0 | 13.51 | 1.180 | 79.9 | 0.415 | 1.607 | 35.1 | 183.5 | --- | 2.275 | -12.82 | 0.508 | 87.5 | 210.9 | -31.8 | 0.214 |
| 4-3080 | 4-3460 | 0.408 | 28.9 | 71.6 | 16.50 | 1.179 | 80.3 | 0.412 | 1.606 | 33.7 | 187.9 | --- | 2.268 | -15.45 | 0.515 | 84.5 | 207.5 | -36.4 | 0.230 |
| 4-3080 | 4-3480 | 0.473 | 0.0 | 75.2 | 21.13 | 1.180 | 80.8 | 0.410 | 1.609 | 32.0 | 191.9 | --- | 2.269 | -19.72 | 0.523 | 82.0 | 205.6 | -41.3 | 0.265 |
| 4-3080 | 4-3500 | 0.603 | 322.3 | 71.5 | 29.31 | 1.181 | 81.4 | 0.409 | 1.615 | 30.2 | 195.6 | --- | 2.277 | -27.53 | 0.531 | 79.7 | 206.3 | -46.2 | 0.335 |
| 4-3080 | 4-3520 | 0.897 | 304.2 | 57.7 | 46.80 | 1.182 | 81.8 | 0.410 | 1.624 | 28.7 | 199.2 | --- | 2.290 | -44.66 | 0.540 | 77.6 | 211.7 | -48.5 | 0.495 |
| 4-3080 | 4-3560 | 0.884 | 52.0 | -68.7 | -46.44 | 1.186 | 85.6 | 0.403 | 1.646 | 15.4 | 204.2 | --- | 2.309 | 49.31 | 0.557 | 75.4 | 220.1 | 48.0 | 0.550 |
| 4-3080 | 4-3580 | 0.528 | 81.9 | -54.9 | -25.80 | 1.188 | 86.2 | 0.406 | 1.659 | 13.2 | 207.1 | --- | 2.332 | 29.05 | 0.565 | 73.9 | 214.2 | 44.7 | 0.374 |
| 4-3080 | 4-3600 | 0.371 | 93.1 | -42.4 | -16.52 | 1.190 | 87.1 | 0.409 | 1.673 | 9.8 | 209.5 | --- | 2.357 | 20.15 | 0.572 | 72.6 | 212.5 | 37.3 | 0.310 |
| 4-3080 | 4-3620 | 0.290 | 101.8 | -31.6 | -11.41 | 1.192 | 88.3 | 0.412 | 1.687 | 5.9 | 211.8 | --- | 2.383 | 15.43 | 0.579 | 71.5 | 213.5 | 30.5 | 0.288 |
| 4-3080 | 4-3640 | 0.245 | 110.7 | -22.2 | -8.17 | 1.194 | 89.5 | 0.417 | 1.703 | 1.6 | 213.7 | --- | 2.412 | 12.59 | 0.584 | 70.5 | 215.8 | 25.2 | 0.283 |
| 4-3080 | 4-3660 | 0.221 | 120.4 | -14.1 | -5.90 | 1.196 | 90.9 | 0.422 | 1.718 | 356.9 | 575.5 | 0.993 | 2.443 | 10.74 | 0.589 | 69.5 | 219.1 | 21.1 | 0.285 |
| 4-3080 | 4-3680 | 0.210 | 130.8 | -7.3 | -4.18 | 1.199 | 92.4 | 0.429 | 1.734 | 352.0 | 577.0 | 0.990 | 2.478 | 9.46 | 0.594 | 68.6 | 222.9 | 18.1 | 0.293 |
| 4-3080 | 4-3700 | 0.210 | 141.6 | -2.1 | -2.82 | 1.201 | 94.0 | 0.437 | 1.750 | 346.9 | 578.3 | 0.985 | 2.515 | 8.54 | 0.597 | 67.6 | 227.1 | 15.7 | 0.302 |
| 4-3080 | 4-3720 | 0.219 | 152.2 | 1.6 | -1.68 | 1.203 | 95.7 | 0.447 | 1.767 | 341.5 | 579.3 | 0.977 | 2.556 | 7.89 | 0.599 | 66.6 | 231.6 | 13.9 | 0.314 |
| 4-3080 | 4-3740 | 0.236 | 162.1 | 3.8 | -0.71 | 1.205 | 97.5 | 0.458 | 1.784 | 335.9 | 580.1 | 0.966 | 2.601 | 7.41 | 0.601 | 65.6 | 236.4 | 12.5 | 0.326 |
| 4-3080 | 4-3760 | 0.260 | 170.8 | 4.8 | 0.17 | 1.208 | 99.4 | 0.472 | 1.800 | 330.2 | 580.7 | 0.951 | 2.650 | 7.07 | 0.602 | 64.4 | 241.4 | 11.3 | 0.340 |
| 4-3080 | 4-3780 | 0.289 | 178.5 | 4.9 | 0.96 | 1.210 | 101.5 | 0.487 | 1.817 | 324.3 | 581.1 | 0.932 | 2.702 | 6.85 | 0.602 | 63.2 | 246.6 | 10.4 | 0.355 |
| 4-3090 | 4-3210 | 0.543 | 104.4 | 29.1 | 2.33 | 1.491 | 79.4 | 1.197 | -4.867 | 19.4 | 97.3 | --- | --- | -6.27 | 1.005 | 144.5 | 227.1 | -4.2 | 0.865 |
| 4-3090 | 4-3230 | 0.461 | 96.4 | 31.9 | 2.87 | 1.390 | 78.6 | 0.9171 | 1.498 | 23.9 | 106.6 | --- | --- | -6.18 | 0.850 | 140.0 | 228.1 | -4.8 | 0.705 |
| 4-3090 | 4-3250 | 0.414 | 88.2 | 34.1 | 3.41 | 1.322 | 77.7 | 0.745 | 3.683 | 28.9 | 116.5 | --- | --- | -6.13 | 0.737 | 135.0 | 228.9 | -5.5 | 0.583 |
| 550 | | | | | | | | | | | | | | | | | | | |
| 4-3090 | 4-3270 | 0.389 | 80.8 | 35.9 | 3.95 | 1.275 | 77.0 | 0.637 | 2.549 | 33.7 | 126.4 | --- | --- | -6.13 | 0.655 | 129.5 | 229.4 | -6.3 | 0.488 |
| 4-3090 | 4-3290 | 0.376 | 74.7 | 37.4 | 4.50 | 1.243 | 76.4 | 0.567 | 2.112 | 38.2 | 135.9 | --- | --- | -6.18 | 0.595 | 123.7 | 229.4 | -7.4 | 0.412 |
| 4-3090 | 4-3310 | 0.370 | 69.8 | 38.8 | 5.07 | 1.221 | 75.9 | 0.522 | 1.892 | 41.8 | 144.8 | --- | --- | -6.29 | 0.552 | 117.7 | 228.8 | -8.8 | 0.352 |
| 4-3090 | 4-3330 | 0.367 | 66.2 | 40.3 | 5.68 | 1.205 | 75.7 | 0.492 | 1.766 | 44.6 | 152.8 | --- | --- | -6.45 | 0.524 | 111.8 | 227.6 | -10.4 | 0.304 |
| 4-3090 | 4-3350 | 0.366 | 63.4 | 42.0 | 6.34 | 1.195 | 75.5 | 0.472 | 1.690 | 46.4 | 159.9 | --- | --- | -6.68 | 0.506 | 106.2 | 225.5 | -12.3 | 0.266 |
| 4-3090 | 4-3370 | 0.366 | 61.4 | 44.0 | 7.06 | 1.187 | 75.6 | 0.458 | 1.643 | 47.4 | 166.4 | --- | --- | -7.00 | 0.496 | 101.0 | 222.7 | -14.5 | 0.237 |
| 4-3090 | 4-3390 | 0.366 | 59.8 | 46.5 | 7.89 | 1.183 | 75.7 | 0.448 | 1.614 | 47.7 | 172.1 | --- | --- | -7.44 | 0.493 | 96.3 | 219.1 | -17.0 | 0.217 |
| 4-3090 | 4-3410 | 0.368 | 58.4 | 49.5 | 8.84 | 1.180 | 76.0 | 0.441 | 1.598 | 47.2 | 177.3 | --- | --- | -8.02 | 0.494 | 92.1 | 215.0 | -19.7 | 0.204 |
| 4-3090 | 4-3430 | 0.372 | 57.0 | 53.2 | 9.99 | 1.179 | 76.4 | 0.435 | 1.590 | 46.3 | 182.0 | --- | 2.282 | -8.80 | 0.498 | 88.4 | 210.9 | -22.5 | 0.199 |
| 4-3090 | 4-3450 | 0.380 | 55.1 | 57.5 | 11.42 | 1.179 | 76.9 | 0.431 | 1.588 | 44.8 | 186.3 | --- | 2.273 | -9.88 | 0.504 | 85.2 | 207.2 | -25.4 | 0.201 |
| 4-3090 | 4-3470 | 0.394 | 51.6 | 62.8 | 13.31 | 1.179 | 77.5 | 0.427 | 1.591 | 42.9 | 190.3 | --- | 2.272 | -11.41 | 0.513 | 82.5 | 204.4 | -28.6 | 0.210 |
| 4-3090 | 4-3490 | 0.420 | 44.0 | 68.8 | 15.96 | 1.180 | 78.2 | 0.425 | 1.598 | 40.7 | 194.0 | --- | 2.276 | -13.72 | 0.521 | 80.1 | 202.9 | -32.3 | 0.228 |
| 4-3090 | 4-3510 | 0.472 | 23.9 | 74.7 | 20.04 | 1.182 | 78.9 | 0.423 | 1.607 | 38.2 | 197.4 | --- | 2.286 | -17.46 | 0.531 | 78.1 | 203.1 | -36.9 | 0.259 |
| 4-3090 | 4-3530 | 0.580 | 341.3 | 75.0 | 27.23 | 1.183 | 79.7 | 0.421 | 1.618 | 35.6 | 200.5 | --- | 2.300 | -24.31 | 0.540 | 76.3 | 205.7 | -42.5 | 0.320 |
| 4-3090 | 4-3550 | 0.837 | 313.1 | 63.1 | 42.84 | 1.185 | 80.3 | 0.422 | 1.630 | 33.2 | 203.5 | --- | 2.318 | -39.58 | 0.549 | 74.6 | 213.4 | -47.2 | 0.460 |
| 4-3090 | 4-3590 | 0.871 | 54.4 | -64.3 | -45.35 | 1.190 | 84.2 | 0.413 | 1.659 | 19.9 | 208.0 | --- | 2.344 | 49.29 | 0.566 | 73.0 | 225.0 | 47.1 | 0.560 |
| 4-3090 | 4-3610 | 0.495 | 85.1 | -49.9 | -23.49 | 1.192 | 85.0 | 0.416 | 1.674 | 17.2 | 210.4 | --- | 2.371 | 27.79 | 0.574 | 71.8 | 217.8 | 42.3 | 0.377 |
| 4-3090 | 4-3630 | 0.342 | 97.4 | -36.2 | -14.28 | 1.195 | 86.1 | 0.419 | 1.691 | 13.3 | 212.6 | --- | 2.398 | 18.93 | 0.580 | 70.8 | 216.7 | 34.0 | 0.318 |
| 4-3090 | 4-3650 | 0.268 | 107.0 | -24.5 | -9.37 | 1.197 | 87.3 | 0.422 | 1.707 | 9.0 | 214.4 | --- | 2.427 | 14.38 | 0.586 | 69.9 | 218.5 | 27.2 | 0.299 |
| 4-3090 | 4-3670 | 0.229 | 117.0 | -14.7 | -6.31 | 1.199 | 88.7 | 0.426 | 1.724 | 4.3 | 216.1 | --- | 2.458 | 11.68 | 0.591 | 69.1 | 221.5 | 22.2 | 0.296 |
| 4-3090 | 4-3690 | 0.209 | 127.8 | -6.7 | -4.18 | 1.202 | 90.2 | 0.431 | 1.741 | 359.3 | 577.5 | 0.991 | 2.491 | 9.94 | 0.595 | 68.3 | 225.3 | 18.6 | 0.299 |
| 4-3090 | 4-3710 | 0.202 | 139.3 | -0.6 | -2.59 | 1.204 | 91.8 | 0.437 | 1.758 | 354.1 | 578.7 | 0.989 | 2.527 | 8.74 | 0.598 | 67.4 | 229.6 | 15.9 | 0.306 |
| 4-3090 | 4-3730 | 0.205 | 151.0 | 3.5 | -1.33 | 1.206 | 93.5 | 0.445 | 1.776 | 348.7 | 579.7 | 0.985 | 2.566 | 7.89 | 0.600 | 66.6 | 234.1 | 13.9 | 0.316 |
| 4-3090 | 4-3750 | 0.217 | 162.2 | 5.9 | -0.28 | 1.209 | 95.2 | 0.455 | 1.793 | 343.2 | 580.5 | 0.978 | 2.609 | 7.28 | 0.602 | 65.7 | 239.0 | 12.3 | 0.326 |
| 4-3090 | 4-3770 | 0.236 | 172.3 | 6.7 | 0.61 | 1.211 | 97.1 | 0.466 | 1.811 | 337.5 | 581.1 | 0.967 | 2.655 | 6.84 | 0.603 | 64.7 | 243.9 | 11.1 | 0.338 |
| 4-3090 | 4-3790 | 0.261 | 181.1 | 6.6 | 1.41 | 1.213 | 99.1 | 0.479 | 1.828 | 331.6 | 581.5 | 0.952 | 2.705 | 6.52 | 0.603 | 63.6 | 249.1 | 10.1 | 0.351 |
| 4-3100 | 4-3220 | 0.577 | 96.0 | 29.9 | 2.73 | 1.447 | 72.9 | 1.0641 | 4.235 | 33.2 | 103.4 | --- | --- | -5.73 | 0.937 | 143.9 | 227.0 | -3.9 | 0.807 |
| 4-3100 | 4-3240 | 0.510 | 88.5 | 31.7 | 3.24 | 1.356 | 72.5 | 0.836 | 5.418 | 38.6 | 113.7 | --- | --- | -5.58 | 0.792 | 139.1 | 227.6 | -4.4 | 0.657 |
| 4-3100 | 4-3260 | 0.473 | 81.8 | 33.0 | 3.73 | 1.296 | 72.1 | 0.699 | 2.902 | 44.1 | 124.2 | --- | --- | -5.47 | 0.688 | 133.6 | 228.0 | -5.0 | 0.543 |
| 4-3100 | 4-3280 | 0.452 | 76.4 | 34.1 | 4.22 | 1.255 | 71.7 | 0.615 | 2.230 | 49.0 | 134.2 | --- | --- | -5.41 | 0.613 | 127.6 | 227.9 | -5.8 | 0.455 |
| 4-3100 | 4-3300 | 0.440 | 72.3 | 35.1 | 4.70 | 1.227 | 71.4 | 0.562 | 1.932 | 53.1 | 143.4 | --- | --- | -5.39 | 0.559 | 121.4 | 227.3 | -6.7 | 0.385 |
| 4-3100 | 4-3320 | 0.432 | 69.3 | 36.1 | 5.20 | 1.208 | 71.3 | 0.528 | 1.774 | 56.1 | 151.6 | --- | --- | -5.42 | 0.523 | 115.1 | 226.1 | -7.8 | 0.329 |
| 4-3100 | 4-3340 | 0.427 | 67.1 | 37.3 | 5.71 | 1.195 | 71.3 | 0.505 | 1.682 | 58.0 | 158.9 | --- | --- | -5.49 | 0.500 | 109.0 | 224.1 | -9.1 | 0.285 |
| 4-3100 | 4-3360 | 0.422 | 65.7 | 38.7 | 6.25 | 1.187 | 71.4 | 0.490 | 1.627 | 59.1 | 165.3 | --- | --- | -5.62 | 0.486 | 103.3 | 221.3 | -10.6 | 0.252 |
| 4-3100 | 4-3380 | 0.418 | 64.9 | 40.3 | 6.83 | 1.182 | 71.7 | 0.478 | 1.594 | 59.3 | 171.0 | --- | --- | -5.81 | 0.481 | 98.0 | 217.9 | -12.2 | 0.227 |
| 4-3100 | 4-3400 | 0.414 | 64.4 | 42.3 | 7.47 | 1.178 | 72.1 | 0.469 | 1.575 | 58.9 | 176.2 | --- | --- | -6.07 | 0.481 | 93.4 | 214.0 | -13.9 | 0.211 |
| 4-3100 | 4-3420 | 0.411 | 64.2 | 44.6 | 8.18 | 1.177 | 72.6 | 0.462 | 1.567 | 57.8 | 180.8 | --- | 2.291 | -6.43 | 0.485 | 89.3 | 210.0 | -15.7 | 0.201 |
| 4-3100 | 4-3440 | 0.408 | 64.2 | 47.4 | 9.02 | 1.177 | 73.1 | 0.456 | 1.565 | 56.3 | 185.0 | --- | 2.279 | -6.92 | 0.491 | 85.8 | 206.3 | -17.4 | 0.197 |
| 4-3100 | 4-3460 | 0.406 | 64.3 | 50.8 | 10.01 | 1.177 | 73.8 | 0.451 | 1.568 | 54.3 | 188.9 | --- | 2.276 | -7.58 | 0.500 | 82.8 | 203.4 | -19.2 | 0.199 |
| 4-3100 | 4-3480 | 0.407 | 64.0 | 54.8 | 11.25 | 1.178 | 74.6 | 0.447 | 1.575 | 52.0 | 192.5 | --- | 2.279 | -8.50 | 0.509 | 80.3 | 201.4 | -21.2 | 0.205 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3100 | 4-3500 | 0.414 | 63.0 | 59.8 | 12.87 | 1.180 | 75.4 | 0.443 | 1.585 | 49.3 | 195.8 | --- | 2.287 | -9.80 | 0.520 | 78.1 | 200.5 | -23.6 | 0.216 |
| 4-3100 | 4-3520 | 0.430 | 59.8 | 65.9 | 15.15 | 1.182 | 76.3 | 0.440 | 1.597 | 46.4 | 199.0 | --- | 2.299 | -11.77 | 0.530 | 76.3 | 200.9 | -26.8 | 0.233 |
| 4-3100 | 4-3540 | 0.467 | 49.1 | 73.1 | 18.64 | 1.184 | 77.2 | 0.437 | 1.610 | 43.2 | 201.9 | --- | 2.314 | -14.95 | 0.540 | 74.7 | 202.6 | -31.2 | 0.260 |
| 4-3100 | 4-3560 | 0.552 | 10.5 | 78.2 | 24.80 | 1.187 | 78.2 | 0.435 | 1.625 | 39.9 | 204.6 | --- | 2.332 | -20.81 | 0.550 | 73.3 | 206.4 | -37.4 | 0.308 |
| 4-3100 | 4-3580 | 0.770 | 323.2 | 69.5 | 38.44 | 1.189 | 79.1 | 0.434 | 1.641 | 36.8 | 207.1 | --- | 2.353 | -34.15 | 0.559 | 72.1 | 215.0 | -44.6 | 0.425 |
| 4-3100 | 4-3620 | 0.835 | 60.2 | -59.7 | -42.93 | 1.194 | 82.9 | 0.425 | 1.675 | 23.9 | 211.2 | --- | 2.386 | 47.83 | 0.575 | 70.9 | 229.9 | 46.2 | 0.558 |
| 4-3100 | 4-3640 | 0.448 | 91.0 | -43.6 | -20.30 | 1.197 | 83.9 | 0.427 | 1.693 | 20.6 | 213.2 | --- | 2.415 | 25.52 | 0.581 | 70.0 | 221.8 | 39.0 | 0.374 |
| 4-3100 | 4-3660 | 0.309 | 103.8 | -28.1 | -11.53 | 1.199 | 85.1 | 0.429 | 1.710 | 16.3 | 215.0 | --- | 2.444 | 17.06 | 0.587 | 69.2 | 221.6 | 30.0 | 0.323 |
| 4-3100 | 4-3680 | 0.247 | 114.4 | -15.4 | -7.01 | 1.202 | 86.5 | 0.432 | 1.729 | 11.6 | 216.6 | --- | 2.475 | 12.85 | 0.592 | 68.5 | 224.2 | 23.4 | 0.308 |
| 4-3100 | 4-3700 | 0.216 | 125.2 | -5.5 | -4.24 | 1.205 | 88.0 | 0.435 | 1.747 | 6.6 | 217.9 | --- | 2.507 | 10.40 | 0.596 | 67.8 | 227.8 | 18.9 | 0.307 |
| 4-3100 | 4-3720 | 0.202 | 137.0 | 1.8 | -2.33 | 1.207 | 89.6 | 0.440 | 1.765 | 1.4 | 219.1 | --- | 2.542 | 8.83 | 0.599 | 67.1 | 232.1 | 15.8 | 0.312 |
| 4-3100 | 4-3740 | 0.199 | 149.3 | 6.6 | -0.91 | 1.209 | 91.2 | 0.446 | 1.784 | 356.0 | 580.1 | 0.988 | 2.580 | 7.76 | 0.601 | 66.4 | 236.7 | 13.5 | 0.319 |
| 4-3100 | 4-3760 | 0.205 | 161.5 | 9.1 | 0.20 | 1.212 | 93.0 | 0.454 | 1.802 | 350.4 | 580.9 | 0.984 | 2.620 | 7.00 | 0.603 | 65.7 | 241.5 | 11.8 | 0.327 |
| 4-3100 | 4-3780 | 0.219 | 172.8 | 9.9 | 1.12 | 1.214 | 94.8 | 0.463 | 1.821 | 344.7 | 581.5 | 0.978 | 2.664 | 6.45 | 0.603 | 64.8 | 246.5 | 10.5 | 0.337 |
| 4-3100 | 4-3800 | 0.239 | 182.7 | 9.4 | 1.91 | 1.216 | 96.7 | 0.474 | 1.839 | 338.9 | 581.9 | 0.987 | 2.711 | 6.06 | 0.603 | 63.9 | 251.6 | 9.5 | 0.348 |
| 4-3110 | 4-3230 | 0.642 | 89.9 | 29.9 | 3.21 | 1.403 | 66.1 | 0.952 | 16.916 | 49.2 | 111.7 | --- | --- | -5.06 | 0.866 | 143.8 | 226.0 | -3.4 | 0.755 |
| 4-3110 | 4-3250 | 0.583 | 83.9 | 31.0 | 3.69 | 1.322 | 66.2 | 0.776 | 3.578 | 55.2 | 122.8 | --- | --- | -4.86 | 0.732 | 138.4 | 226.2 | -3.8 | 0.614 |
| 4-3110 | 4-3270 | 0.549 | 79.1 | 31.9 | 4.13 | 1.269 | 66.2 | 0.674 | 2.402 | 60.7 | 133.3 | --- | --- | -4.71 | 0.636 | 132.3 | 226.0 | -4.4 | 0.508 |
| 4-3110 | 4-3290 | 0.528 | 75.5 | 32.6 | 4.56 | 1.234 | 66.2 | 0.612 | 1.983 | 65.1 | 142.7 | --- | --- | -4.60 | 0.568 | 125.8 | 225.3 | -5.0 | 0.426 |
| 4-3110 | 4-3310 | 0.514 | 72.9 | 33.4 | 4.98 | 1.211 | 66.3 | 0.573 | 1.781 | 68.2 | 151.1 | --- | --- | -4.52 | 0.522 | 119.1 | 224.0 | -5.7 | 0.362 |
| 4-3110 | 4-3330 | 0.503 | 71.2 | 34.2 | 5.40 | 1.195 | 66.5 | 0.547 | 1.669 | 70.2 | 158.3 | --- | --- | -4.49 | 0.491 | 112.3 | 222.1 | -6.6 | 0.311 |
| 4-3110 | 4-3350 | 0.494 | 70.2 | 35.2 | 5.82 | 1.185 | 66.8 | 0.529 | 1.604 | 71.2 | 164.7 | --- | --- | -4.50 | 0.474 | 105.9 | 219.4 | -7.5 | 0.273 |
| 4-3110 | 4-3370 | 0.486 | 69.8 | 36.4 | 6.25 | 1.179 | 67.2 | 0.516 | 1.567 | 71.4 | 170.3 | --- | --- | -4.54 | 0.465 | 100.0 | 216.0 | -8.5 | 0.244 |
| 4-3110 | 4-3390 | 0.477 | 69.7 | 37.7 | 6.71 | 1.175 | 67.7 | 0.506 | 1.546 | 70.8 | 175.3 | --- | --- | -4.64 | 0.464 | 94.8 | 212.3 | -9.6 | 0.224 |
| 4-3110 | 4-3410 | 0.469 | 70.0 | 39.3 | 7.19 | 1.173 | 68.3 | 0.497 | 1.537 | 69.7 | 179.8 | --- | --- | -4.78 | 0.468 | 90.2 | 208.4 | -10.6 | 0.212 |
| 4-3110 | 4-3430 | 0.460 | 70.5 | 41.1 | 7.73 | 1.173 | 69.0 | 0.489 | 1.535 | 68.0 | 183.9 | --- | 2.286 | -4.99 | 0.475 | 86.3 | 204.9 | -11.6 | 0.205 |
| 4-3110 | 4-3450 | 0.452 | 71.3 | 43.2 | 8.32 | 1.174 | 69.8 | 0.483 | 1.539 | 66.0 | 187.6 | --- | 2.281 | -5.28 | 0.484 | 83.0 | 202.0 | -12.5 | 0.203 |
| 4-3110 | 4-3470 | 0.444 | 72.3 | 45.7 | 9.01 | 1.175 | 70.6 | 0.476 | 1.546 | 63.6 | 191.1 | --- | 2.283 | -5.67 | 0.494 | 80.2 | 199.9 | -13.5 | 0.206 |
| 4-3110 | 4-3490 | 0.437 | 73.4 | 48.6 | 9.83 | 1.177 | 71.5 | 0.470 | 1.557 | 60.8 | 194.4 | --- | 2.290 | -6.20 | 0.506 | 77.9 | 198.8 | -14.6 | 0.211 |
| 4-3110 | 4-3510 | 0.431 | 74.5 | 52.2 | 10.85 | 1.179 | 72.5 | 0.465 | 1.570 | 57.8 | 197.5 | --- | 2.301 | -6.94 | 0.517 | 75.9 | 198.7 | -16.0 | 0.219 |
| 4-3110 | 4-3530 | 0.430 | 75.4 | 56.7 | 12.18 | 1.182 | 73.5 | 0.460 | 1.585 | 54.5 | 200.3 | --- | 2.314 | -8.01 | 0.528 | 74.3 | 199.6 | -17.9 | 0.230 |
| 4-3110 | 4-3550 | 0.437 | 75.6 | 62.4 | 14.04 | 1.184 | 74.6 | 0.455 | 1.602 | 51.0 | 203.0 | --- | 2.331 | -9.60 | 0.539 | 72.9 | 201.4 | -20.6 | 0.244 |
| 4-3110 | 4-3570 | 0.459 | 72.7 | 69.7 | 16.90 | 1.187 | 75.7 | 0.452 | 1.619 | 47.3 | 205.5 | --- | 2.350 | -12.20 | 0.549 | 71.8 | 204.1 | -24.6 | 0.265 |
| 4-3110 | 4-3590 | 0.519 | 53.9 | 78.4 | 21.95 | 1.190 | 76.9 | 0.448 | 1.637 | 43.4 | 207.9 | --- | 2.370 | -16.99 | 0.559 | 70.8 | 208.4 | -30.9 | 0.301 |
| 4-3110 | 4-3610 | 0.693 | 338.7 | 77.2 | 33.36 | 1.193 | 78.0 | 0.446 | 1.655 | 39.7 | 210.1 | --- | 2.394 | -28.15 | 0.568 | 70.0 | 216.8 | -40.2 | 0.390 |
| 4-3110 | 4-3650 | 0.773 | 69.0 | -55.1 | -38.93 | 1.199 | 81.8 | 0.437 | 1.693 | 27.3 | 213.7 | --- | 2.434 | 44.68 | 0.582 | 69.1 | 234.3 | 44.9 | 0.541 |
| 4-3110 | 4-3670 | 0.392 | 99.4 | -35.3 | -16.25 | 1.201 | 82.9 | 0.439 | 1.713 | 23.5 | 215.5 | --- | 2.464 | 22.23 | 0.588 | 68.4 | 226.1 | 34.5 | 0.365 |
| 4-3110 | 4-3690 | 0.277 | 112.6 | -17.5 | -8.33 | 1.204 | 84.3 | 0.440 | 1.732 | 18.8 | 217.0 | --- | 2.494 | 14.57 | 0.593 | 67.8 | 227.0 | 25.1 | 0.325 |
| 4-3110 | 4-3710 | 0.230 | 123.8 | -4.4 | -4.39 | 1.207 | 85.8 | 0.442 | 1.752 | 13.8 | 218.3 | --- | 2.526 | 10.90 | 0.596 | 67.3 | 230.4 | 19.2 | 0.316 |
| 4-3110 | 4-3730 | 0.209 | 135.4 | 4.7 | -2.01 | 1.209 | 87.4 | 0.445 | 1.771 | 8.6 | 219.4 | --- | 2.560 | 8.79 | 0.599 | 66.7 | 234.6 | 15.4 | 0.317 |
| 4-3110 | 4-3750 | 0.201 | 147.7 | 10.5 | -0.40 | 1.212 | 89.0 | 0.449 | 1.791 | 3.2 | 220.3 | --- | 2.596 | 7.44 | 0.601 | 66.1 | 239.2 | 12.8 | 0.322 |
| 4-3110 | 4-3770 | 0.202 | 160.3 | 13.5 | 0.80 | 1.214 | 90.7 | 0.455 | 1.810 | 357.6 | 581.1 | 0.986 | 2.634 | 6.53 | 0.603 | 65.5 | 244.0 | 10.9 | 0.329 |
| 4-3110 | 4-3790 | 0.210 | 172.5 | 14.3 | 1.73 | 1.217 | 92.5 | 0.462 | 1.830 | 352.0 | 581.7 | 0.984 | 2.676 | 5.89 | 0.603 | 64.8 | 249.0 | 9.6 | 0.337 |
| 4-3110 | 4-3810 | 0.224 | 183.5 | 13.5 | 2.50 | 1.219 | 94.4 | 0.471 | 1.849 | 346.2 | 582.1 | 0.978 | 2.720 | 5.42 | 0.603 | 64.1 | 254.1 | 8.5 | 0.346 |
| 4-3120 | 4-3260 | 0.672 | 82.3 | 30.3 | 4.25 | 1.289 | 59.6 | 0.747 | 2.705 | 73.2 | 133.1 | --- | --- | -3.98 | 0.669 | 138.1 | 223.8 | -3.1 | 0.579 |
| 4-3120 | 4-3280 | 0.637 | 79.1 | 31.0 | 4.64 | 1.243 | 60.0 | 0.674 | 2.060 | 77.8 | 142.8 | --- | --- | -3.80 | 0.582 | 131.3 | 223.0 | -3.5 | 0.480 |
| 4-3120 | 4-3300 | 0.613 | 77.0 | 31.6 | 5.00 | 1.213 | 60.5 | 0.629 | 1.790 | 81.0 | 151.1 | --- | --- | -3.66 | 0.521 | 124.1 | 221.6 | -3.9 | 0.404 |
| 4-3120 | 4-3320 | 0.595 | 75.6 | 32.3 | 5.35 | 1.194 | 61.0 | 0.600 | 1.653 | 82.9 | 158.3 | --- | --- | -3.58 | 0.482 | 116.6 | 219.6 | -4.4 | 0.346 |
| 4-3120 | 4-3340 | 0.580 | 74.9 | 33.0 | 5.68 | 1.182 | 61.6 | 0.579 | 1.576 | 83.7 | 164.4 | --- | --- | -3.49 | 0.458 | 109.4 | 217.0 | -5.0 | 0.301 |
| 4-3120 | 4-3360 | 0.566 | 74.7 | 33.8 | 6.01 | 1.174 | 62.2 | 0.564 | 1.533 | 83.7 | 169.8 | --- | --- | -3.46 | 0.446 | 102.6 | 213.7 | -5.6 | 0.268 |
| 4-3120 | 4-3380 | 0.554 | 74.9 | 34.8 | 6.35 | 1.170 | 62.9 | 0.551 | 1.510 | 83.0 | 174.6 | --- | --- | -3.46 | 0.443 | 96.6 | 210.1 | -6.2 | 0.245 |
| 4-3120 | 4-3400 | 0.541 | 75.4 | 35.8 | 6.68 | 1.168 | 63.6 | 0.540 | 1.500 | 81.7 | 178.9 | --- | --- | -3.47 | 0.446 | 91.3 | 206.5 | -6.8 | 0.229 |
| 4-3120 | 4-3420 | 0.528 | 76.2 | 37.1 | 7.04 | 1.168 | 64.5 | 0.531 | 1.499 | 79.9 | 182.8 | --- | 2.294 | -3.53 | 0.454 | 86.8 | 203.1 | -7.3 | 0.220 |
| 4-3120 | 4-3440 | 0.515 | 77.3 | 38.4 | 7.41 | 1.168 | 65.3 | 0.522 | 1.503 | 77.7 | 186.4 | --- | 2.287 | -3.64 | 0.464 | 83.1 | 200.3 | -7.8 | 0.216 |
| 4-3120 | 4-3460 | 0.502 | 78.6 | 40.0 | 7.82 | 1.170 | 66.3 | 0.513 | 1.512 | 75.2 | 189.8 | --- | 2.288 | -3.79 | 0.476 | 80.0 | 198.3 | -8.2 | 0.216 |
| 4-3120 | 4-3480 | 0.488 | 80.0 | 41.8 | 8.28 | 1.172 | 67.3 | 0.505 | 1.524 | 72.4 | 193.0 | --- | 2.294 | -4.00 | 0.488 | 77.4 | 197.2 | -8.7 | 0.219 |
| 4-3120 | 4-3500 | 0.475 | 81.7 | 43.9 | 8.81 | 1.175 | 68.4 | 0.497 | 1.539 | 69.3 | 195.9 | --- | 2.304 | -4.29 | 0.501 | 75.3 | 197.1 | -9.3 | 0.225 |
| 4-3120 | 4-3520 | 0.463 | 83.6 | 46.3 | 9.44 | 1.178 | 69.5 | 0.490 | 1.555 | 66.0 | 198.8 | --- | 2.318 | -4.69 | 0.514 | 73.6 | 197.7 | -10.0 | 0.232 |
| 4-3120 | 4-3540 | 0.452 | 85.8 | 49.3 | 10.21 | 1.181 | 70.7 | 0.483 | 1.573 | 62.5 | 201.4 | --- | 2.333 | -5.25 | 0.526 | 72.2 | 199.2 | -11.0 | 0.240 |
| 4-3120 | 4-3560 | 0.444 | 88.1 | 53.0 | 11.23 | 1.184 | 71.9 | 0.477 | 1.592 | 58.7 | 203.9 | --- | 2.351 | -6.05 | 0.538 | 71.0 | 201.3 | -12.4 | 0.249 |
| 4-3120 | 4-3580 | 0.441 | 90.4 | 57.8 | 12.64 | 1.187 | 73.2 | 0.471 | 1.611 | 54.7 | 206.3 | --- | 2.370 | -7.26 | 0.549 | 70.1 | 204.0 | -14.5 | 0.260 |
| 4-3120 | 4-3600 | 0.449 | 92.4 | 64.2 | 14.80 | 1.191 | 74.5 | 0.466 | 1.631 | 50.6 | 208.5 | --- | 2.392 | -9.21 | 0.559 | 69.3 | 207.5 | -17.7 | 0.275 |
| 4-3120 | 4-3620 | 0.483 | 91.1 | 73.3 | 18.63 | 1.194 | 75.8 | 0.462 | 1.652 | 46.3 | 210.6 | --- | 2.414 | -12.84 | 0.567 | 68.7 | 211.9 | -23.2 | 0.298 |
| 4-3120 | 4-3640 | 0.604 | 34.7 | 84.2 | 27.44 | 1.197 | 77.1 | 0.459 | 1.672 | 42.0 | 212.5 | --- | 2.439 | -21.45 | 0.575 | 68.1 | 219.1 | -33.2 | 0.357 |
| 4-3120 | 4-3660 | 1.172 | 330.2 | 59.1 | 62.53 | 1.200 | 78.2 | 0.458 | 1.693 | 38.5 | 214.3 | --- | 2.469 | -56.35 | 0.582 | 67.4 | 241.4 | -43.6 | 0.649 |
| 4-3120 | 4-3680 | 0.676 | 80.9 | -49.7 | -32.92 | 1.203 | 80.7 | 0.450 | 1.714 | 30.3 | 215.8 | --- | 2.485 | 39.29 | 0.588 | 67.5 | 237.7 | 42.8 | 0.506 |
| 4-3120 | 4-3700 | 0.332 | 110.4 | -23.5 | -11.36 | 1.206 | 82.0 | 0.450 | 1.735 | 26.0 | 217.2 | --- | 2.516 | 17.93 | 0.593 | 67.0 | 230.7 | 28.4 | 0.353 |
| 4-3120 | 4-3720 | 0.252 | 123.6 | -3.9 | -4.74 | 1.209 | 83.5 | 0.451 | 1.756 | 21.0 | 218.5 | --- | 2.547 | 11.51 | 0.596 | 66.6 | 233.0 | 19.5 | 0.327 |
| 4-3120 | 4-3740 | 0.224 | 135.2 | 8.1 | -1.57 | 1.211 | 85.1 | 0.452 | 1.777 | 15.7 | 219.6 | --- | 2.580 | 8.54 | 0.599 | 66.1 | 237.1 | 14.6 | 0.324 |
| 4-3120 | 4-3760 | 0.211 | 147.2 | 15.1 | 0.31 | 1.214 | 86.8 | 0.455 | 1.797 | 10.3 | 220.5 | --- | 2.615 | 6.86 | 0.601 | 65.7 | 241.7 | 11.6 | 0.327 |
| 4-3120 | 4-3780 | 0.207 | 159.6 | 18.6 | 1.58 | 1.217 | 88.5 | 0.459 | 1.818 | 4.8 | 221.3 | --- | 2.652 | 5.80 | 0.603 | 65.2 | 246.5 | 9.6 | 0.332 |
| 4-3120 | 4-3800 | 0.210 | 171.9 | 19.6 | 2.51 | 1.219 | 90.3 | 0.464 | 1.838 | 359.2 | 581.9 | 0.985 | 2.691 | 5.08 | 0.603 | 64.7 | 251.5 | 8.2 | 0.339 |
| 4-3120 | 4-3820 | 0.218 | 183.5 | 18.6 | 3.23 | 1.222 | 92.1 | 0.471 | 1.858 | 353.5 | 582.3 | 0.983 | 2.733 | 4.58 | 0.603 | 64.1 | 256.6 | 7.2 | 0.346 |
| 4-3130 | 4-3270 | 0.772 | 83.1 | 29.8 | 4.99 | 1.257 | 52.7 | 0.749 | 2.204 | 91.3 | 143.6 | --- | --- | -2.89 | 0.606 | 138.2 | 220.3 | -2.1 | 0.553 |
| 4-3130 | 4-3290 | 0.732 | 81.2 | 30.3 | 5.29 | 1.217 | 53.7 | 0.698 | 1.815 | 94.3 | 151.8 | --- | --- | -2.72 | 0.526 | 130.6 | 218.9 | -2.4 | 0.461 |
| 4-3130 | 4-3310 | 0.703 | 80.2 | 30.9 | 5.57 | 1.192 | 54.6 | 0.664 | 1.638 | 96.0 | 158.6 | --- | --- | -2.58 | 0.472 | 122.4 | 216.9 | -2.6 | 0.391 |
| 4-3130 | 4-3330 | 0.680 | 79.7 | 31.5 | 5.83 | 1.177 | 55.5 | 0.640 | 1.545 | 96.6 | 164.5 | --- | --- | -2.47 | 0.440 | 114.1 | 214.3 | -2.9 | 0.339 |
| 4-3130 | 4-3350 | 0.660 | 79.8 | 32.1 | 6.07 | 1.168 | 56.5 | 0.622 | 1.495 | 96.3 | 169.5 | --- | --- | -2.39 | 0.423 | 106.2 | 211.2 | -3.2 | 0.300 |
| 4-3130 | 4-3370 | 0.642 | 80.2 | 32.8 | 6.30 | 1.163 | 57.4 | 0.606 | 1.469 | 95.3 | 174.0 | --- | --- | -2.34 | 0.417 | 99.0 | 207.8 | -3.5 | 0.273 |
| 4-3130 | 4-3390 | 0.624 | 80.9 | 33.6 | 6.53 | 1.160 | 58.4 | 0.593 | 1.458 | 93.8 | 178.1 | --- | --- | -2.30 | 0.420 | 92.8 | 204.4 | -3.8 | 0.254 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3130 | 4-3410 | 0.607 | 81.8 | 34.4 | 6.75 | 1.160 | 59.4 | 0.581 | 1.456 | 91.8 | 181.8 | --- | 2.302 | -2.29 | 0.428 | 87.5 | 201.2 | -4.0 | 0.242 |
| 4-3130 | 4-3430 | 0.590 | 83.0 | 35.3 | 6.98 | 1.161 | 60.5 | 0.569 | 1.462 | 89.5 | 185.2 | --- | 2.293 | -2.30 | 0.439 | 83.2 | 198.6 | -4.2 | 0.236 |
| 4-3130 | 4-3450 | 0.573 | 84.4 | 36.3 | 7.22 | 1.163 | 61.6 | 0.558 | 1.472 | 86.9 | 188.4 | --- | 2.293 | -2.34 | 0.452 | 79.6 | 196.7 | -4.4 | 0.234 |
| 4-3130 | 4-3470 | 0.556 | 86.0 | 37.4 | 7.48 | 1.166 | 62.7 | 0.548 | 1.485 | 84.0 | 191.5 | --- | 2.299 | -2.40 | 0.467 | 76.8 | 195.7 | -4.6 | 0.236 |
| 4-3130 | 4-3490 | 0.538 | 87.8 | 38.7 | 7.75 | 1.169 | 63.9 | 0.537 | 1.502 | 80.9 | 194.4 | --- | 2.309 | -2.50 | 0.481 | 74.5 | 195.5 | -4.8 | 0.239 |
| 4-3130 | 4-3510 | 0.520 | 89.7 | 40.1 | 8.06 | 1.172 | 65.2 | 0.528 | 1.520 | 77.5 | 197.1 | --- | 2.322 | -2.63 | 0.496 | 72.6 | 196.2 | -5.1 | 0.244 |
| 4-3130 | 4-3530 | 0.503 | 92.0 | 41.7 | 8.41 | 1.176 | 66.5 | 0.518 | 1.539 | 73.9 | 199.7 | --- | 2.337 | -2.82 | 0.510 | 71.1 | 197.5 | -5.5 | 0.250 |
| 4-3130 | 4-3550 | 0.485 | 94.4 | 43.6 | 8.83 | 1.180 | 67.8 | 0.510 | 1.559 | 70.1 | 202.2 | --- | 2.354 | -3.09 | 0.523 | 69.9 | 199.5 | -5.9 | 0.256 |
| 4-3130 | 4-3570 | 0.469 | 97.2 | 45.8 | 9.34 | 1.183 | 69.1 | 0.501 | 1.581 | 66.2 | 204.6 | --- | 2.373 | -3.45 | 0.536 | 69.0 | 202.0 | -6.6 | 0.264 |
| 4-3130 | 4-3590 | 0.454 | 100.3 | 48.5 | 10.01 | 1.187 | 70.5 | 0.494 | 1.602 | 62.0 | 206.9 | --- | 2.394 | -3.98 | 0.547 | 68.3 | 205.0 | -7.5 | 0.271 |
| 4-3130 | 4-3610 | 0.442 | 103.9 | 52.0 | 10.94 | 1.190 | 71.9 | 0.487 | 1.625 | 57.7 | 209.0 | --- | 2.415 | -4.77 | 0.557 | 67.7 | 208.4 | -8.8 | 0.279 |
| 4-3130 | 4-3630 | 0.436 | 108.0 | 56.8 | 12.35 | 1.194 | 73.4 | 0.480 | 1.647 | 53.2 | 211.0 | --- | 2.438 | -6.05 | 0.567 | 67.2 | 212.3 | -11.0 | 0.289 |
| 4-3130 | 4-3650 | 0.446 | 112.7 | 64.0 | 14.86 | 1.197 | 74.8 | 0.475 | 1.669 | 48.6 | 212.8 | --- | 2.462 | -8.42 | 0.575 | 66.8 | 216.7 | -14.9 | 0.302 |
| 4-3130 | 4-3670 | 0.509 | 116.2 | 76.6 | 20.68 | 1.201 | 76.3 | 0.470 | 1.692 | 43.9 | 214.5 | --- | 2.488 | -14.11 | 0.582 | 66.5 | 222.5 | -23.1 | 0.331 |
| 4-3130 | 4-3690 | 0.935 | 333.4 | 73.1 | 47.63 | 1.204 | 77.7 | 0.468 | 1.715 | 39.5 | 216.0 | --- | 2.517 | -40.92 | 0.588 | 66.1 | 240.4 | -41.9 | 0.527 |
| 4-3130 | 4-3710 | 0.535 | 97.4 | -41.4 | -23.97 | 1.207 | 79.7 | 0.462 | 1.737 | 32.9 | 217.4 | --- | 2.540 | 30.80 | 0.592 | 66.1 | 239.6 | 38.1 | 0.449 |
| 4-3130 | 4-3730 | 0.283 | 124.3 | -5.5 | -5.64 | 1.210 | 81.2 | 0.461 | 1.759 | 28.1 | 218.6 | --- | 2.571 | 12.60 | 0.596 | 65.8 | 235.9 | 20.3 | 0.341 |
| 4-3130 | 4-3750 | 0.244 | 136.9 | 12.3 | -0.82 | 1.213 | 82.8 | 0.461 | 1.781 | 22.8 | 219.7 | --- | 2.603 | 7.92 | 0.599 | 65.5 | 239.6 | 13.1 | 0.331 |
| 4-3130 | 4-3770 | 0.230 | 148.4 | 20.6 | 1.40 | 1.216 | 84.5 | 0.462 | 1.803 | 17.4 | 220.6 | --- | 2.636 | 5.83 | 0.601 | 65.1 | 244.2 | 9.6 | 0.332 |
| 4-3130 | 4-3790 | 0.223 | 160.0 | 24.4 | 2.69 | 1.218 | 86.2 | 0.464 | 1.825 | 11.9 | 221.4 | --- | 2.672 | 4.66 | 0.602 | 64.8 | 249.1 | 7.6 | 0.336 |
| 4-3130 | 4-3810 | 0.221 | 171.9 | 25.4 | 3.56 | 1.221 | 88.0 | 0.468 | 1.846 | 6.3 | 222.0 | --- | 2.709 | 3.93 | 0.602 | 64.4 | 254.1 | 6.3 | 0.341 |
| 4-3130 | 4-3830 | 0.223 | 183.4 | 24.4 | 4.19 | 1.224 | 89.8 | 0.473 | 1.867 | 0.7 | 222.4 | --- | 2.750 | 3.44 | 0.602 | 63.9 | 259.2 | 5.4 | 0.347 |
| 4-3140 | 4-3280 | 0.877 | 85.5 | 29.4 | 5.98 | 1.226 | 45.6 | 0.779 | 1.887 | 108.3 | 153.0 | --- | --- | -1.51 | 0.542 | 139.1 | 216.2 | -1.0 | 0.539 |
| 4-3140 | 4-3300 | 0.831 | 84.8 | 29.8 | 6.16 | 1.193 | 47.2 | 0.740 | 1.636 | 109.5 | 159.4 | --- | --- | -1.39 | 0.468 | 130.3 | 214.2 | -1.1 | 0.453 |
| 4-3140 | 4-3320 | 0.796 | 84.6 | 30.3 | 6.31 | 1.172 | 48.6 | 0.712 | 1.517 | 109.7 | 164.8 | --- | --- | -1.30 | 0.421 | 120.8 | 211.7 | -1.2 | 0.390 |
| 4-3140 | 4-3340 | 0.767 | 84.8 | 30.8 | 6.45 | 1.160 | 49.9 | 0.690 | 1.455 | 109.0 | 169.4 | --- | --- | -1.22 | 0.396 | 111.4 | 208.8 | -1.3 | 0.344 |
| 4-3140 | 4-3360 | 0.742 | 85.4 | 31.4 | 6.58 | 1.154 | 51.2 | 0.671 | 1.424 | 107.7 | 173.6 | --- | --- | -1.16 | 0.386 | 102.7 | 205.6 | -1.4 | 0.310 |
| 4-3140 | 4-3380 | 0.719 | 86.3 | 31.9 | 6.69 | 1.151 | 52.5 | 0.654 | 1.411 | 105.9 | 177.3 | --- | --- | -1.12 | 0.387 | 95.1 | 202.4 | -1.5 | 0.287 |
| 4-3140 | 4-3400 | 0.697 | 87.4 | 32.5 | 6.81 | 1.151 | 53.8 | 0.639 | 1.410 | 103.8 | 180.7 | --- | 2.310 | -1.09 | 0.395 | 88.7 | 199.4 | -1.6 | 0.272 |
| 4-3140 | 4-3420 | 0.676 | 88.7 | 33.1 | 6.92 | 1.152 | 55.1 | 0.625 | 1.416 | 101.3 | 184.0 | --- | 2.300 | -1.07 | 0.408 | 83.5 | 197.0 | -1.7 | 0.263 |
| 4-3140 | 4-3440 | 0.654 | 90.1 | 33.8 | 7.02 | 1.155 | 56.4 | 0.611 | 1.427 | 98.5 | 187.0 | --- | 2.298 | -1.06 | 0.424 | 79.3 | 195.3 | -1.7 | 0.259 |
| 4-3140 | 4-3460 | 0.633 | 91.8 | 34.5 | 7.13 | 1.158 | 57.7 | 0.598 | 1.442 | 95.5 | 189.9 | --- | 2.303 | -1.07 | 0.440 | 76.0 | 194.3 | -1.8 | 0.258 |
| 4-3140 | 4-3480 | 0.612 | 93.6 | 35.3 | 7.25 | 1.161 | 59.1 | 0.585 | 1.459 | 92.3 | 192.7 | --- | 2.313 | -1.08 | 0.457 | 73.4 | 194.2 | -1.8 | 0.260 |
| 4-3140 | 4-3500 | 0.591 | 95.5 | 36.1 | 7.37 | 1.165 | 60.5 | 0.573 | 1.479 | 88.9 | 195.3 | --- | 2.326 | -1.11 | 0.474 | 71.3 | 194.8 | -1.9 | 0.263 |
| 4-3140 | 4-3520 | 0.569 | 97.6 | 37.0 | 7.50 | 1.169 | 61.9 | 0.561 | 1.500 | 85.3 | 197.9 | --- | 2.341 | -1.15 | 0.490 | 69.7 | 196.1 | -2.0 | 0.268 |
| 4-3140 | 4-3540 | 0.547 | 99.9 | 37.9 | 7.64 | 1.173 | 63.3 | 0.549 | 1.522 | 81.5 | 200.4 | --- | 2.358 | -1.21 | 0.506 | 68.5 | 197.9 | -2.1 | 0.273 |
| 4-3140 | 4-3560 | 0.526 | 102.5 | 39.0 | 7.80 | 1.178 | 64.8 | 0.538 | 1.545 | 77.6 | 202.7 | --- | 2.377 | -1.30 | 0.520 | 67.5 | 200.4 | -2.2 | 0.278 |
| 4-3140 | 4-3580 | 0.504 | 105.3 | 40.2 | 7.99 | 1.182 | 66.2 | 0.528 | 1.569 | 73.4 | 205.0 | --- | 2.397 | -1.42 | 0.533 | 66.8 | 203.3 | -2.5 | 0.284 |
| 4-3140 | 4-3600 | 0.483 | 108.3 | 41.5 | 8.23 | 1.186 | 67.7 | 0.518 | 1.593 | 69.2 | 207.1 | --- | 2.419 | -1.59 | 0.545 | 66.3 | 206.5 | -2.7 | 0.289 |
| 4-3140 | 4-3620 | 0.462 | 111.8 | 43.1 | 8.54 | 1.190 | 69.3 | 0.509 | 1.617 | 64.7 | 209.2 | --- | 2.441 | -1.83 | 0.556 | 65.9 | 210.2 | -3.1 | 0.295 |
| 4-3140 | 4-3640 | 0.442 | 115.7 | 45.1 | 8.97 | 1.194 | 70.8 | 0.501 | 1.641 | 60.2 | 211.1 | --- | 2.464 | -2.19 | 0.565 | 65.6 | 214.1 | -3.7 | 0.301 |
| 4-3140 | 4-3660 | 0.425 | 120.2 | 47.8 | 9.61 | 1.197 | 72.4 | 0.494 | 1.666 | 55.4 | 212.9 | --- | 2.488 | -2.77 | 0.574 | 65.4 | 218.3 | -4.7 | 0.306 |
| 4-3140 | 4-3680 | 0.414 | 125.6 | 51.7 | 10.75 | 1.201 | 74.0 | 0.488 | 1.690 | 50.6 | 214.5 | --- | 2.514 | -3.85 | 0.581 | 65.2 | 222.8 | -6.5 | 0.313 |
| 4-3140 | 4-3700 | 0.422 | 132.9 | 59.2 | 13.37 | 1.204 | 75.6 | 0.482 | 1.714 | 45.6 | 216.0 | --- | 2.540 | -6.40 | 0.587 | 65.1 | 227.6 | -10.6 | 0.323 |
| 4-3140 | 4-3720 | 0.589 | 151.1 | 82.8 | 26.32 | 1.208 | 77.1 | 0.478 | 1.738 | 40.6 | 217.4 | --- | 2.568 | -19.30 | 0.591 | 64.9 | 236.1 | -27.7 | 0.381 |
| 4-3140 | 4-3740 | 0.351 | 121.5 | -17.8 | -10.28 | 1.211 | 78.9 | 0.474 | 1.761 | 35.0 | 218.6 | --- | 2.596 | 17.36 | 0.595 | 64.8 | 240.2 | 25.4 | 0.374 |
| 4-3140 | 4-3760 | 0.271 | 141.3 | 19.4 | 0.92 | 1.214 | 80.5 | 0.472 | 1.785 | 29.8 | 219.6 | --- | 2.627 | 6.23 | 0.598 | 64.7 | 242.0 | 10.0 | 0.336 |
| 4-3140 | 4-3780 | 0.260 | 152.2 | 28.4 | 3.38 | 1.217 | 82.2 | 0.472 | 1.808 | 24.4 | 220.6 | --- | 2.660 | 3.82 | 0.600 | 64.5 | 246.7 | 6.2 | 0.337 |
| 4-3140 | 4-3800 | 0.251 | 162.6 | 31.4 | 4.47 | 1.220 | 84.0 | 0.472 | 1.830 | 18.9 | 221.3 | --- | 2.694 | 2.79 | 0.601 | 64.2 | 251.6 | 4.4 | 0.340 |
| 4-3140 | 4-3820 | 0.244 | 173.2 | 31.9 | 5.10 | 1.222 | 85.7 | 0.474 | 1.853 | 13.4 | 221.9 | --- | 2.730 | 2.22 | 0.601 | 63.9 | 256.7 | 3.5 | 0.344 |
| 4-3140 | 4-3840 | 0.240 | 183.9 | 30.6 | 5.51 | 1.225 | 87.5 | 0.477 | 1.874 | 7.8 | 222.4 | --- | 2.768 | 1.87 | 0.601 | 63.6 | 261.8 | 2.9 | 0.349 |
| 4-3150 | 4-3290 | 0.984 | 89.2 | 29.0 | 7.39 | 1.199 | 38.3 | 0.825 | 1.675 | 123.6 | 160.7 | --- | --- | 0.33 | 0.480 | 140.9 | 211.7 | 0.2 | 0.540 |
| 4-3150 | 4-3310 | 0.932 | 89.3 | 29.4 | 7.35 | 1.170 | 40.5 | 0.793 | 1.503 | 123.1 | 165.4 | --- | --- | 0.30 | 0.410 | 130.6 | 209.4 | 0.2 | 0.459 |
| 4-3150 | 4-3330 | 0.891 | 89.7 | 29.8 | 7.31 | 1.153 | 42.4 | 0.767 | 1.420 | 121.9 | 169.5 | --- | --- | 0.27 | 0.369 | 119.5 | 206.6 | 0.2 | 0.401 |
| 4-3150 | 4-3350 | 0.856 | 90.5 | 30.2 | 7.28 | 1.144 | 44.2 | 0.745 | 1.380 | 120.2 | 173.2 | --- | --- | 0.25 | 0.351 | 108.7 | 203.7 | 0.2 | 0.359 |
| 4-3150 | 4-3370 | 0.825 | 91.6 | 30.6 | 7.25 | 1.140 | 45.9 | 0.724 | 1.363 | 118.1 | 176.6 | --- | --- | 0.23 | 0.348 | 98.9 | 200.7 | 0.2 | 0.330 |
| 4-3150 | 4-3390 | 0.797 | 92.8 | 31.0 | 7.23 | 1.140 | 47.5 | 0.706 | 1.360 | 115.7 | 179.7 | --- | --- | 0.22 | 0.356 | 90.7 | 198.0 | 0.3 | 0.310 |
| 4-3150 | 4-3410 | 0.771 | 94.3 | 31.5 | 7.20 | 1.141 | 49.1 | 0.688 | 1.366 | 113.0 | 182.7 | --- | 2.306 | 0.21 | 0.371 | 84.1 | 195.7 | 0.3 | 0.297 |
| 4-3150 | 4-3430 | 0.745 | 95.8 | 31.9 | 7.18 | 1.144 | 50.7 | 0.671 | 1.378 | 110.0 | 185.5 | --- | 2.302 | 0.21 | 0.389 | 79.0 | 194.1 | 0.3 | 0.290 |
| 4-3150 | 4-3450 | 0.720 | 97.5 | 32.3 | 7.16 | 1.147 | 52.2 | 0.655 | 1.394 | 106.9 | 188.2 | --- | 2.307 | 0.20 | 0.408 | 75.1 | 193.2 | 0.3 | 0.287 |
| 4-3150 | 4-3470 | 0.695 | 99.3 | 32.8 | 7.14 | 1.152 | 53.8 | 0.639 | 1.413 | 103.6 | 190.9 | --- | 2.316 | 0.20 | 0.428 | 72.0 | 193.1 | 0.3 | 0.287 |
| 4-3150 | 4-3490 | 0.670 | 101.2 | 33.2 | 7.12 | 1.156 | 55.4 | 0.624 | 1.434 | 100.2 | 193.4 | --- | 2.329 | 0.20 | 0.448 | 69.7 | 193.6 | 0.3 | 0.288 |
| 4-3150 | 4-3510 | 0.645 | 103.3 | 33.7 | 7.10 | 1.161 | 56.9 | 0.610 | 1.457 | 96.5 | 195.9 | --- | 2.345 | 0.20 | 0.466 | 68.0 | 194.9 | 0.3 | 0.291 |
| 4-3150 | 4-3530 | 0.621 | 105.5 | 34.1 | 7.07 | 1.166 | 58.5 | 0.596 | 1.481 | 92.7 | 198.3 | --- | 2.362 | 0.21 | 0.484 | 66.7 | 196.7 | 0.3 | 0.294 |
| 4-3150 | 4-3550 | 0.595 | 107.8 | 34.6 | 7.05 | 1.170 | 60.1 | 0.582 | 1.505 | 88.8 | 200.7 | --- | 2.381 | 0.21 | 0.501 | 65.7 | 199.0 | 0.3 | 0.298 |
| 4-3150 | 4-3570 | 0.570 | 110.3 | 35.1 | 7.02 | 1.175 | 61.7 | 0.569 | 1.531 | 84.7 | 202.9 | --- | 2.402 | 0.23 | 0.516 | 65.0 | 201.8 | 0.3 | 0.303 |
| 4-3150 | 4-3590 | 0.545 | 112.9 | 35.6 | 6.99 | 1.180 | 63.3 | 0.557 | 1.556 | 80.5 | 205.1 | --- | 2.423 | 0.24 | 0.530 | 64.5 | 205.0 | 0.4 | 0.307 |
| 4-3150 | 4-3610 | 0.520 | 115.8 | 36.0 | 6.96 | 1.184 | 64.9 | 0.545 | 1.582 | 76.1 | 207.2 | --- | 2.445 | 0.26 | 0.543 | 64.2 | 208.6 | 0.4 | 0.311 |
| 4-3150 | 4-3630 | 0.494 | 118.9 | 36.5 | 6.91 | 1.188 | 66.6 | 0.534 | 1.609 | 71.6 | 209.2 | --- | 2.468 | 0.30 | 0.554 | 64.0 | 212.4 | 0.5 | 0.315 |
| 4-3150 | 4-3650 | 0.469 | 122.3 | 36.9 | 6.85 | 1.193 | 68.2 | 0.524 | 1.635 | 66.9 | 211.0 | --- | 2.492 | 0.34 | 0.564 | 63.9 | 216.5 | 0.5 | 0.320 |
| 4-3150 | 4-3670 | 0.443 | 126.0 | 37.2 | 6.78 | 1.197 | 69.8 | 0.515 | 1.661 | 62.2 | 212.8 | --- | 2.516 | 0.41 | 0.572 | 63.8 | 220.7 | 0.6 | 0.323 |
| 4-3150 | 4-3690 | 0.418 | 130.0 | 37.4 | 6.66 | 1.200 | 71.5 | 0.507 | 1.686 | 57.3 | 214.4 | --- | 2.542 | 0.51 | 0.579 | 63.8 | 225.2 | 0.8 | 0.327 |
| 4-3150 | 4-3710 | 0.393 | 134.4 | 37.3 | 6.45 | 1.204 | 73.2 | 0.500 | 1.712 | 52.3 | 215.9 | --- | 2.568 | 0.71 | 0.585 | 63.8 | 229.8 | 1.1 | 0.331 |
| 4-3150 | 4-3730 | 0.366 | 139.0 | 36.3 | 5.99 | 1.208 | 74.8 | 0.494 | 1.737 | 47.1 | 217.2 | --- | 2.595 | 1.15 | 0.590 | 63.8 | 234.6 | 1.8 | 0.334 |
| 4-3150 | 4-3750 | 0.332 | 142.3 | 29.5 | 3.89 | 1.211 | 76.5 | 0.489 | 1.762 | 41.9 | 218.4 | --- | 2.624 | 3.24 | 0.594 | 63.8 | 239.5 | 5.1 | 0.339 |
| 4-3150 | 4-3770 | 0.369 | 157.2 | 51.6 | 11.13 | 1.214 | 78.2 | 0.485 | 1.787 | 36.6 | 219.5 | --- | 2.654 | -4.01 | 0.597 | 63.7 | 244.5 | -6.3 | 0.343 |
| 4-3150 | 4-3790 | 0.322 | 161.2 | 43.7 | 8.37 | 1.217 | 79.9 | 0.483 | 1.811 | 31.3 | 220.4 | --- | 2.685 | -1.25 | 0.599 | 63.7 | 249.3 | -2.0 | 0.344 |
| 4-3150 | 4-3810 | 0.300 | 168.6 | 41.5 | 7.85 | 1.220 | 81.7 | 0.482 | 1.835 | 25.8 | 221.2 | --- | 2.719 | -0.75 | 0.600 | 63.6 | 254.3 | -1.2 | 0.347 |
| 4-3150 | 4-3830 | 0.284 | 177.0 | 39.6 | 7.64 | 1.223 | 83.4 | 0.482 | 1.858 | 20.4 | 221.8 | --- | 2.753 | -0.54 | 0.600 | 63.4 | 259.4 | -0.8 | 0.350 |
| 4-3150 | 4-3850 | 0.271 | 185.9 | 37.3 | 7.51 | 1.226 | 85.2 | 0.483 | 1.881 | 14.8 | 222.4 | --- | 2.790 | -0.43 | 0.600 | 63.2 | 264.5 | -0.7 | 0.353 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3160 | 4-3300 | 1.093 | 93.7 | 28.6 | 9.54 | 1.174 | 30.9 | 0.877 | 1.529 | 137.0 | 166.7 | --- | --- | 2.94 | 0.420 | 144.0 | 207.5 | 1.3 | 0.555 |
| 4-3160 | 4-3320 | 1.033 | 94.5 | 29.0 | 9.07 | 1.149 | 33.7 | 0.849 | 1.403 | 135.1 | 170.0 | --- | --- | 2.54 | 0.352 | 131.9 | 205.0 | 1.4 | 0.478 |
| 4-3160 | 4-3340 | 0.985 | 95.5 | 29.3 | 8.70 | 1.135 | 36.1 | 0.823 | 1.344 | 132.8 | 173.0 | --- | --- | 2.25 | 0.316 | 118.6 | 202.3 | 1.5 | 0.424 |
| 4-3160 | 4-3360 | 0.944 | 96.8 | 29.5 | 8.40 | 1.129 | 38.4 | 0.800 | 1.319 | 130.3 | 175.9 | --- | --- | 2.03 | 0.305 | 105.7 | 199.5 | 1.5 | 0.385 |
| 4-3160 | 4-3380 | 0.909 | 98.2 | 29.8 | 8.15 | 1.127 | 40.4 | 0.778 | 1.312 | 127.5 | 178.7 | --- | --- | 1.87 | 0.310 | 94.6 | 197.0 | 1.6 | 0.358 |
| 4-3160 | 4-3400 | 0.876 | 99.7 | 30.1 | 7.94 | 1.128 | 42.4 | 0.757 | 1.316 | 124.6 | 181.3 | --- | 2.312 | 1.74 | 0.325 | 85.8 | 194.9 | 1.7 | 0.340 |
| 4-3160 | 4-3420 | 0.845 | 101.4 | 30.3 | 7.74 | 1.131 | 44.3 | 0.738 | 1.327 | 121.5 | 183.9 | --- | 2.308 | 1.64 | 0.346 | 79.1 | 193.4 | 1.7 | 0.329 |
| 4-3160 | 4-3440 | 0.815 | 103.2 | 30.5 | 7.56 | 1.135 | 46.2 | 0.719 | 1.343 | 118.2 | 186.5 | --- | 2.309 | 1.57 | 0.369 | 74.2 | 192.5 | 1.7 | 0.323 |
| 4-3160 | 4-3460 | 0.786 | 105.0 | 30.7 | 7.40 | 1.140 | 48.0 | 0.700 | 1.363 | 114.8 | 189.0 | --- | 2.317 | 1.51 | 0.392 | 70.5 | 192.3 | 1.7 | 0.320 |
| 4-3160 | 4-3480 | 0.758 | 106.9 | 30.9 | 7.24 | 1.145 | 49.8 | 0.682 | 1.385 | 111.2 | 191.4 | --- | 2.331 | 1.48 | 0.416 | 67.9 | 192.8 | 1.8 | 0.319 |
| 4-3160 | 4-3500 | 0.730 | 108.9 | 31.1 | 7.08 | 1.150 | 51.6 | 0.665 | 1.409 | 107.6 | 193.8 | --- | 2.347 | 1.46 | 0.438 | 65.9 | 194.0 | 1.8 | 0.320 |
| 4-3160 | 4-3520 | 0.702 | 111.0 | 31.3 | 6.92 | 1.156 | 53.3 | 0.648 | 1.435 | 103.8 | 196.1 | --- | 2.365 | 1.46 | 0.458 | 64.5 | 195.7 | 1.9 | 0.321 |
| 4-3160 | 4-3540 | 0.674 | 113.2 | 31.4 | 6.76 | 1.161 | 55.1 | 0.632 | 1.461 | 99.8 | 198.4 | --- | 2.385 | 1.47 | 0.478 | 63.5 | 198.0 | 1.9 | 0.324 |
| 4-3160 | 4-3560 | 0.646 | 115.5 | 31.5 | 6.59 | 1.167 | 56.8 | 0.616 | 1.488 | 95.7 | 200.7 | --- | 2.406 | 1.50 | 0.496 | 62.8 | 200.7 | 2.0 | 0.327 |
| 4-3160 | 4-3580 | 0.618 | 117.9 | 31.6 | 6.42 | 1.172 | 58.6 | 0.601 | 1.516 | 91.5 | 202.9 | --- | 2.427 | 1.56 | 0.512 | 62.3 | 203.8 | 2.1 | 0.330 |
| 4-3160 | 4-3600 | 0.590 | 120.4 | 31.6 | 6.22 | 1.177 | 60.3 | 0.587 | 1.544 | 87.2 | 205.0 | --- | 2.450 | 1.64 | 0.526 | 62.1 | 207.2 | 2.3 | 0.333 |
| 4-3160 | 4-3620 | 0.561 | 123.1 | 31.5 | 5.99 | 1.182 | 62.0 | 0.574 | 1.572 | 82.8 | 207.0 | --- | 2.473 | 1.76 | 0.540 | 62.0 | 210.9 | 2.5 | 0.336 |
| 4-3160 | 4-3640 | 0.533 | 125.8 | 31.2 | 5.73 | 1.187 | 63.8 | 0.561 | 1.599 | 78.2 | 208.9 | --- | 2.498 | 1.92 | 0.551 | 61.9 | 214.9 | 2.8 | 0.338 |
| 4-3160 | 4-3660 | 0.504 | 128.8 | 30.8 | 5.41 | 1.191 | 65.5 | 0.549 | 1.627 | 73.5 | 210.8 | --- | 2.521 | 2.14 | 0.561 | 62.0 | 219.1 | 3.1 | 0.341 |
| 4-3160 | 4-3680 | 0.476 | 131.8 | 30.0 | 5.00 | 1.195 | 67.2 | 0.538 | 1.655 | 68.8 | 212.5 | --- | 2.546 | 2.48 | 0.570 | 62.1 | 223.5 | 3.6 | 0.344 |
| 4-3160 | 4-3700 | 0.447 | 135.0 | 28.7 | 4.44 | 1.199 | 69.0 | 0.528 | 1.682 | 63.9 | 214.1 | --- | 2.571 | 2.93 | 0.577 | 62.2 | 228.1 | 4.3 | 0.346 |
| 4-3160 | 4-3720 | 0.417 | 138.1 | 26.5 | 3.61 | 1.203 | 70.7 | 0.520 | 1.709 | 58.9 | 215.6 | --- | 2.597 | 3.68 | 0.583 | 62.4 | 232.8 | 5.4 | 0.349 |
| 4-3160 | 4-3740 | 0.387 | 140.9 | 22.1 | 2.19 | 1.207 | 72.4 | 0.512 | 1.736 | 53.8 | 216.9 | --- | 2.625 | 5.01 | 0.588 | 62.5 | 237.7 | 7.4 | 0.353 |
| 4-3160 | 4-3760 | 0.360 | 141.9 | 12.1 | -0.86 | 1.211 | 74.1 | 0.505 | 1.762 | 48.6 | 218.1 | --- | 2.653 | 7.97 | 0.592 | 62.6 | 243.0 | 11.7 | 0.361 |
| 4-3160 | 4-3780 | 0.410 | 130.7 | -21.6 | -12.43 | 1.214 | 75.8 | 0.500 | 1.788 | 43.5 | 219.2 | --- | 2.683 | 19.47 | 0.595 | 62.7 | 251.3 | 25.6 | 0.408 |
| 4-3160 | 4-3800 | 0.833 | 267.8 | 86.3 | 41.23 | 1.217 | 77.8 | 0.495 | 1.814 | 37.5 | 220.1 | --- | 2.711 | -34.27 | 0.597 | 62.8 | 263.8 | -36.5 | 0.503 |
| 4-3160 | 4-3820 | 0.432 | 182.6 | 60.1 | 16.84 | 1.220 | 79.4 | 0.493 | 1.839 | 32.5 | 220.9 | --- | 2.745 | -9.96 | 0.598 | 62.8 | 258.3 | -14.4 | 0.371 |
| 4-3160 | 4-3840 | 0.361 | 184.7 | 50.8 | 12.63 | 1.223 | 81.1 | 0.491 | 1.863 | 27.1 | 221.6 | --- | 2.778 | -5.83 | 0.599 | 62.7 | 262.6 | -8.6 | 0.362 |
| 4-3160 | 4-3860 | 0.326 | 190.4 | 45.4 | 10.89 | 1.226 | 82.9 | 0.491 | 1.887 | 21.7 | 222.2 | --- | 2.814 | -4.17 | 0.599 | 62.6 | 267.5 | -6.1 | 0.362 |
| 4-3170 | 4-3310 | 1.200 | 98.8 | 28.2 | 13.13 | 1.154 | 23.4 | 0.926 | 1.428 | 148.9 | 171.2 | --- | --- | 7.03 | 0.365 | 149.0 | 204.0 | 2.3 | 0.583 |
| 4-3170 | 4-3330 | 1.133 | 100.2 | 28.4 | 11.73 | 1.131 | 26.8 | 0.900 | 1.329 | 145.8 | 173.3 | --- | --- | 5.76 | 0.296 | 134.7 | 201.5 | 2.4 | 0.509 |
| 4-3170 | 4-3350 | 1.078 | 101.7 | 28.5 | 10.74 | 1.119 | 29.7 | 0.876 | 1.285 | 142.6 | 175.5 | --- | --- | 4.90 | 0.263 | 118.2 | 199.0 | 2.5 | 0.456 |
| 4-3170 | 4-3370 | 1.032 | 103.3 | 28.7 | 9.99 | 1.115 | 32.4 | 0.852 | 1.269 | 139.5 | 177.8 | --- | --- | 4.29 | 0.258 | 102.5 | 196.6 | 2.6 | 0.419 |
| 4-3170 | 4-3390 | 0.991 | 105.0 | 28.8 | 9.39 | 1.115 | 34.9 | 0.830 | 1.268 | 136.2 | 180.1 | --- | 2.320 | 3.84 | 0.271 | 89.6 | 194.6 | 2.6 | 0.394 |
| 4-3170 | 4-3410 | 0.954 | 106.8 | 28.9 | 8.89 | 1.117 | 37.3 | 0.808 | 1.277 | 132.8 | 182.4 | --- | 2.309 | 3.50 | 0.294 | 80.2 | 193.1 | 2.7 | 0.377 |
| 4-3170 | 4-3430 | 0.919 | 108.7 | 29.0 | 8.47 | 1.121 | 39.5 | 0.786 | 1.292 | 129.4 | 184.7 | --- | 2.309 | 3.24 | 0.321 | 73.6 | 192.2 | 2.7 | 0.366 |
| 4-3170 | 4-3450 | 0.885 | 110.6 | 29.0 | 8.09 | 1.127 | 41.6 | 0.765 | 1.312 | 125.8 | 186.9 | --- | 2.317 | 3.04 | 0.349 | 68.9 | 192.0 | 2.8 | 0.359 |
| 4-3170 | 4-3470 | 0.853 | 112.6 | 29.0 | 7.75 | 1.132 | 43.7 | 0.745 | 1.335 | 122.2 | 189.2 | --- | 2.330 | 2.89 | 0.377 | 65.7 | 192.4 | 2.8 | 0.355 |
| 4-3170 | 4-3490 | 0.821 | 114.6 | 29.0 | 7.43 | 1.138 | 45.7 | 0.725 | 1.360 | 118.4 | 191.5 | --- | 2.348 | 2.78 | 0.403 | 63.4 | 193.5 | 2.8 | 0.354 |
| 4-3170 | 4-3510 | 0.790 | 116.6 | 29.0 | 7.13 | 1.144 | 47.7 | 0.706 | 1.386 | 114.6 | 193.8 | --- | 2.365 | 2.71 | 0.428 | 61.8 | 195.1 | 2.9 | 0.353 |
| 4-3170 | 4-3530 | 0.759 | 118.7 | 28.9 | 6.83 | 1.151 | 49.7 | 0.687 | 1.414 | 110.6 | 196.0 | --- | 2.388 | 2.67 | 0.450 | 60.8 | 197.2 | 3.0 | 0.354 |
| 4-3170 | 4-3550 | 0.728 | 120.9 | 28.7 | 6.54 | 1.157 | 51.6 | 0.669 | 1.442 | 106.6 | 198.2 | --- | 2.408 | 2.68 | 0.471 | 60.1 | 199.8 | 3.1 | 0.355 |
| 4-3170 | 4-3570 | 0.698 | 123.1 | 28.5 | 6.24 | 1.163 | 53.5 | 0.652 | 1.471 | 102.4 | 200.4 | --- | 2.430 | 2.69 | 0.490 | 59.7 | 202.7 | 3.2 | 0.357 |
| 4-3170 | 4-3590 | 0.667 | 125.4 | 28.3 | 5.93 | 1.168 | 55.4 | 0.635 | 1.501 | 98.1 | 202.5 | --- | 2.453 | 2.75 | 0.507 | 59.5 | 206.1 | 3.4 | 0.358 |
| 4-3170 | 4-3610 | 0.636 | 127.8 | 27.9 | 5.60 | 1.174 | 57.2 | 0.619 | 1.530 | 93.7 | 204.6 | --- | 2.477 | 2.86 | 0.522 | 59.5 | 209.7 | 3.6 | 0.360 |
| 4-3170 | 4-3630 | 0.606 | 130.2 | 27.4 | 5.24 | 1.179 | 59.1 | 0.603 | 1.560 | 89.3 | 206.6 | --- | 2.501 | 3.00 | 0.536 | 59.6 | 213.6 | 3.8 | 0.361 |
| 4-3170 | 4-3650 | 0.575 | 132.7 | 26.7 | 4.83 | 1.184 | 60.9 | 0.589 | 1.590 | 84.7 | 208.5 | --- | 2.526 | 3.21 | 0.548 | 59.8 | 217.7 | 4.2 | 0.363 |
| 4-3170 | 4-3670 | 0.545 | 135.3 | 25.8 | 4.36 | 1.189 | 62.8 | 0.575 | 1.619 | 80.0 | 210.3 | --- | 2.551 | 3.49 | 0.558 | 60.0 | 222.0 | 4.6 | 0.364 |
| 4-3170 | 4-3690 | 0.514 | 137.9 | 24.5 | 3.78 | 1.194 | 64.6 | 0.563 | 1.648 | 75.2 | 212.0 | --- | 2.576 | 3.89 | 0.567 | 60.3 | 226.5 | 5.3 | 0.365 |
| 4-3170 | 4-3710 | 0.484 | 140.6 | 22.7 | 3.04 | 1.198 | 66.4 | 0.551 | 1.677 | 70.3 | 213.6 | --- | 2.602 | 4.46 | 0.575 | 60.6 | 231.1 | 6.1 | 0.367 |
| 4-3170 | 4-3730 | 0.453 | 143.1 | 19.9 | 2.05 | 1.202 | 68.2 | 0.541 | 1.706 | 65.3 | 215.1 | --- | 2.628 | 5.29 | 0.581 | 60.9 | 235.9 | 7.3 | 0.369 |
| 4-3170 | 4-3750 | 0.424 | 145.2 | 15.6 | 0.59 | 1.206 | 69.9 | 0.532 | 1.734 | 60.3 | 216.4 | --- | 2.656 | 6.59 | 0.586 | 61.1 | 240.9 | 9.1 | 0.371 |
| 4-3170 | 4-3770 | 0.398 | 146.2 | 8.0 | -1.82 | 1.210 | 71.7 | 0.523 | 1.762 | 55.2 | 217.6 | --- | 2.684 | 8.85 | 0.590 | 61.4 | 246.1 | 12.2 | 0.377 |
| 4-3170 | 4-3790 | 0.391 | 143.7 | -7.1 | -6.71 | 1.213 | 73.4 | 0.517 | 1.789 | 50.1 | 218.7 | --- | 2.713 | 13.59 | 0.593 | 61.6 | 252.1 | 18.2 | 0.393 |
| 4-3170 | 4-3810 | 0.541 | 123.8 | -36.5 | -21.94 | 1.217 | 75.0 | 0.512 | 1.815 | 45.2 | 219.7 | --- | 2.745 | 28.67 | 0.595 | 61.7 | 263.3 | 32.1 | 0.472 |
| 4-3170 | 4-3850 | 0.586 | 202.9 | 70.3 | 26.55 | 1.223 | 79.0 | 0.502 | 1.867 | 33.5 | 221.3 | --- | 2.804 | -20.10 | 0.597 | 62.0 | 269.5 | -25.5 | 0.421 |
| 4-3170 | 4-3870 | 0.438 | 199.2 | 57.2 | 17.78 | 1.226 | 80.6 | 0.500 | 1.892 | 28.4 | 221.9 | --- | 2.839 | -11.47 | 0.597 | 62.0 | 271.6 | -15.8 | 0.385 |
| 4-3180 | 4-3320 | 1.306 | 104.4 | 27.6 | 20.20 | 1.137 | 16.0 | 0.964 | 1.360 | 159.5 | 174.6 | --- | --- | 14.64 | 0.319 | 156.1 | 201.4 | 3.0 | 0.623 |
| 4-3180 | 4-3340 | 1.230 | 106.2 | 27.6 | 16.33 | 1.115 | 19.9 | 0.944 | 1.275 | 155.4 | 175.8 | --- | --- | 10.95 | 0.244 | 139.7 | 199.1 | 3.1 | 0.549 |
| 4-3180 | 4-3360 | 1.170 | 108.1 | 27.6 | 13.96 | 1.105 | 23.4 | 0.922 | 1.239 | 151.6 | 177.3 | --- | --- | 8.76 | 0.210 | 118.9 | 196.9 | 3.2 | 0.497 |
| 4-3180 | 4-3380 | 1.118 | 110.0 | 27.6 | 12.34 | 1.102 | 26.5 | 0.899 | 1.228 | 147.9 | 179.0 | --- | --- | 7.33 | 0.211 | 98.8 | 194.9 | 3.3 | 0.460 |
| 4-3180 | 4-3400 | 1.072 | 112.0 | 27.6 | 11.14 | 1.103 | 29.4 | 0.877 | 1.232 | 144.2 | 180.9 | --- | 2.312 | 6.34 | 0.233 | 83.7 | 193.4 | 3.4 | 0.435 |
| 4-3180 | 4-3420 | 1.030 | 114.0 | 27.5 | 10.21 | 1.107 | 32.1 | 0.854 | 1.244 | 140.5 | 182.9 | --- | 2.307 | 5.62 | 0.264 | 73.8 | 192.5 | 3.4 | 0.417 |
| 4-3180 | 4-3440 | 0.992 | 116.0 | 27.4 | 9.45 | 1.112 | 34.6 | 0.832 | 1.262 | 136.8 | 184.9 | --- | 2.313 | 5.08 | 0.297 | 67.3 | 192.2 | 3.4 | 0.406 |
| 4-3180 | 4-3460 | 0.955 | 118.0 | 27.3 | 8.80 | 1.118 | 37.1 | 0.810 | 1.285 | 133.0 | 187.0 | --- | 2.325 | 4.68 | 0.330 | 63.2 | 192.5 | 3.5 | 0.398 |
| 4-3180 | 4-3480 | 0.919 | 120.1 | 27.1 | 8.24 | 1.125 | 39.4 | 0.789 | 1.309 | 129.2 | 189.2 | --- | 2.342 | 4.37 | 0.362 | 60.5 | 193.4 | 3.5 | 0.393 |
| 4-3180 | 4-3500 | 0.884 | 122.1 | 26.9 | 7.73 | 1.131 | 41.6 | 0.767 | 1.336 | 125.2 | 191.3 | --- | 2.362 | 4.14 | 0.391 | 58.7 | 194.8 | 3.5 | 0.391 |
| 4-3180 | 4-3520 | 0.850 | 124.2 | 26.6 | 7.27 | 1.138 | 43.8 | 0.747 | 1.365 | 121.3 | 193.5 | --- | 2.384 | 3.97 | 0.418 | 57.6 | 196.8 | 3.6 | 0.389 |
| 4-3180 | 4-3540 | 0.817 | 126.3 | 26.3 | 6.82 | 1.145 | 46.0 | 0.726 | 1.394 | 117.2 | 195.6 | --- | 2.407 | 3.86 | 0.442 | 56.9 | 199.2 | 3.7 | 0.388 |
| 4-3180 | 4-3560 | 0.783 | 128.5 | 26.0 | 6.40 | 1.152 | 48.1 | 0.706 | 1.424 | 113.0 | 197.8 | --- | 2.431 | 3.80 | 0.464 | 56.6 | 202.0 | 3.8 | 0.388 |
| 4-3180 | 4-3580 | 0.750 | 130.6 | 25.5 | 5.98 | 1.158 | 50.1 | 0.687 | 1.455 | 108.8 | 199.9 | --- | 2.455 | 3.79 | 0.484 | 56.5 | 205.2 | 3.9 | 0.388 |
| 4-3180 | 4-3600 | 0.718 | 132.8 | 25.0 | 5.55 | 1.164 | 52.1 | 0.669 | 1.486 | 104.5 | 202.0 | --- | 2.480 | 3.82 | 0.502 | 56.6 | 208.7 | 4.1 | 0.388 |
| 4-3180 | 4-3620 | 0.685 | 135.1 | 24.4 | 5.11 | 1.170 | 54.1 | 0.651 | 1.517 | 100.0 | 204.0 | --- | 2.505 | 3.90 | 0.518 | 56.8 | 212.5 | 4.4 | 0.388 |
| 4-3180 | 4-3640 | 0.653 | 137.3 | 23.6 | 4.63 | 1.176 | 56.1 | 0.634 | 1.548 | 95.5 | 206.0 | --- | 2.530 | 4.04 | 0.532 | 57.1 | 216.5 | 4.7 | 0.388 |
| 4-3180 | 4-3660 | 0.620 | 139.6 | 22.7 | 4.12 | 1.181 | 58.0 | 0.618 | 1.580 | 90.9 | 207.9 | --- | 2.555 | 4.25 | 0.544 | 57.5 | 220.7 | 5.0 | 0.388 |
| 4-3180 | 4-3680 | 0.588 | 141.9 | 21.5 | 3.54 | 1.186 | 60.0 | 0.603 | 1.610 | 86.2 | 209.7 | --- | 2.581 | 4.54 | 0.555 | 57.9 | 225.0 | 5.5 | 0.388 |
| 4-3180 | 4-3700 | 0.556 | 144.2 | 20.0 | 2.87 | 1.191 | 61.9 | 0.589 | 1.641 | 81.4 | 211.4 | --- | 2.607 | 4.94 | 0.564 | 58.4 | 229.6 | 6.1 | 0.388 |
| 4-3180 | 4-3720 | 0.525 | 146.5 | 17.9 | 2.07 | 1.196 | 63.7 | 0.575 | 1.671 | 76.6 | 213.0 | --- | 2.633 | 5.49 | 0.572 | 58.8 | 234.3 | 6.9 | 0.388 |
| 4-3180 | 4-3740 | 0.494 | 148.6 | 15.2 | 1.05 | 1.200 | 65.6 | 0.564 | 1.701 | 71.6 | 214.4 | --- | 2.660 | 6.27 | 0.578 | 59.2 | 239.1 | 8.0 | 0.388 |
| 4-3180 | 4-3760 | 0.464 | 150.4 | 11.3 | -0.31 | 1.204 | 67.4 | 0.553 | 1.731 | 66.7 | 215.8 | --- | 2.687 | 7.39 | 0.583 | 59.6 | 244.0 | 9.6 | 0.389 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3180 | 4-3780 | 0.437 | 151.6 | 5.4 | -2.26 | 1.208 | 69.2 | 0.543 | 1.760 | 61.6 | 217.0 | --- | 2.716 | 9.12 | 0.587 | 60.0 | 249.2 | 11.9 | 0.392 |
| 4-3180 | 4-3800 | 0.420 | 151.1 | -4.0 | -5.38 | 1.212 | 71.0 | 0.535 | 1.788 | 56.6 | 218.1 | --- | 2.745 | 12.03 | 0.590 | 60.3 | 254.7 | 15.5 | 0.400 |
| 4-3180 | 4-3820 | 0.438 | 145.8 | -19.8 | -11.33 | 1.216 | 72.7 | 0.528 | 1.816 | 51.6 | 219.1 | --- | 2.775 | 17.78 | 0.592 | 60.6 | 261.4 | 22.0 | 0.421 |
| 4-3180 | 4-3840 | 0.621 | 123.0 | -41.1 | -26.89 | 1.219 | 74.3 | 0.523 | 1.843 | 46.9 | 220.0 | --- | 2.808 | 33.13 | 0.594 | 60.7 | 273.4 | 33.8 | 0.508 |
| 4-3180 | 4-3880 | 0.775 | 219.3 | 78.1 | 37.82 | 1.225 | 78.6 | 0.510 | 1.896 | 34.3 | 221.5 | --- | 2.864 | -31.97 | 0.595 | 61.3 | 283.1 | -33.9 | 0.495 |
| 4-3190 | 4-3350 | 1.325 | 112.5 | 26.6 | 25.76 | 1.103 | 13.2 | 0.975 | 1.238 | 164.1 | 177.5 | --- | --- | 21.00 | 0.199 | 148.0 | 197.8 | 3.6 | 0.596 |
| 4-3190 | 4-3370 | 1.258 | 114.7 | 26.5 | 19.64 | 1.093 | 17.1 | 0.957 | 1.206 | 159.8 | 178.4 | --- | --- | 15.11 | 0.159 | 121.4 | 195.9 | 3.7 | 0.543 |
| 4-3190 | 4-3390 | 1.202 | 116.8 | 26.3 | 16.09 | 1.091 | 20.6 | 0.938 | 1.197 | 155.6 | 179.7 | --- | --- | 11.80 | 0.164 | 94.3 | 194.4 | 3.8 | 0.506 |
| 4-3190 | 4-3410 | 1.151 | 119.0 | 26.1 | 13.76 | 1.092 | 23.9 | 0.917 | 1.203 | 151.6 | 181.3 | --- | 2.306 | 9.72 | 0.195 | 76.4 | 193.3 | 3.8 | 0.480 |
| 4-3190 | 4-3430 | 1.106 | 121.2 | 25.9 | 12.08 | 1.097 | 26.9 | 0.896 | 1.217 | 147.7 | 183.0 | --- | 2.307 | 8.30 | 0.235 | 66.2 | 192.9 | 3.9 | 0.461 |
| 4-3190 | 4-3450 | 1.063 | 123.3 | 25.6 | 10.80 | 1.103 | 29.7 | 0.874 | 1.237 | 143.7 | 184.8 | --- | 2.318 | 7.29 | 0.275 | 60.4 | 193.0 | 3.9 | 0.448 |
| 4-3190 | 4-3470 | 1.023 | 125.4 | 25.3 | 9.77 | 1.110 | 32.4 | 0.852 | 1.260 | 139.7 | 186.8 | --- | 2.334 | 6.55 | 0.313 | 56.9 | 193.7 | 3.9 | 0.440 |
| 4-3190 | 4-3490 | 0.985 | 127.5 | 24.9 | 8.91 | 1.117 | 35.0 | 0.830 | 1.287 | 135.8 | 188.8 | --- | 2.355 | 6.00 | 0.347 | 54.9 | 195.0 | 3.9 | 0.433 |
| 4-3190 | 4-3510 | 0.947 | 129.6 | 24.6 | 8.17 | 1.124 | 37.5 | 0.808 | 1.315 | 131.7 | 190.8 | --- | 2.377 | 5.58 | 0.379 | 53.7 | 196.7 | 4.0 | 0.429 |
| 4-3190 | 4-3530 | 0.910 | 131.7 | 24.1 | 7.50 | 1.132 | 39.9 | 0.786 | 1.345 | 127.6 | 192.9 | --- | 2.402 | 5.27 | 0.408 | 53.1 | 199.0 | 4.0 | 0.426 |
| 4-3190 | 4-3550 | 0.874 | 133.8 | 23.7 | 6.90 | 1.139 | 42.2 | 0.765 | 1.376 | 123.5 | 195.0 | --- | 2.427 | 5.05 | 0.434 | 52.9 | 201.6 | 4.1 | 0.424 |
| 4-3190 | 4-3570 | 0.839 | 135.9 | 23.1 | 6.32 | 1.146 | 44.5 | 0.744 | 1.407 | 119.2 | 197.1 | --- | 2.453 | 4.90 | 0.457 | 52.9 | 204.6 | 4.2 | 0.422 |
| 4-3190 | 4-3590 | 0.804 | 138.0 | 22.5 | 5.78 | 1.153 | 46.7 | 0.723 | 1.439 | 114.9 | 199.2 | --- | 2.480 | 4.81 | 0.478 | 53.2 | 208.0 | 4.4 | 0.420 |
| 4-3190 | 4-3610 | 0.769 | 140.1 | 21.8 | 5.24 | 1.160 | 48.8 | 0.703 | 1.471 | 110.5 | 201.2 | --- | 2.506 | 4.79 | 0.497 | 53.5 | 211.6 | 4.6 | 0.419 |
| 4-3190 | 4-3630 | 0.735 | 142.2 | 21.0 | 4.69 | 1.166 | 51.0 | 0.684 | 1.504 | 106.1 | 203.2 | --- | 2.532 | 4.82 | 0.513 | 54.0 | 215.5 | 4.8 | 0.417 |
| 4-3190 | 4-3650 | 0.701 | 144.3 | 20.0 | 4.13 | 1.172 | 53.1 | 0.665 | 1.537 | 101.6 | 205.2 | --- | 2.559 | 4.93 | 0.528 | 54.6 | 219.5 | 5.1 | 0.416 |
| 4-3190 | 4-3670 | 0.667 | 146.5 | 18.9 | 3.53 | 1.178 | 55.1 | 0.648 | 1.569 | 96.9 | 207.1 | --- | 2.585 | 5.10 | 0.540 | 55.1 | 223.8 | 5.5 | 0.414 |
| 4-3190 | 4-3690 | 0.633 | 148.6 | 17.6 | 2.89 | 1.183 | 57.1 | 0.631 | 1.601 | 92.2 | 208.9 | --- | 2.612 | 5.36 | 0.551 | 55.7 | 228.2 | 5.9 | 0.413 |
| 4-3190 | 4-3710 | 0.600 | 150.7 | 15.9 | 2.17 | 1.188 | 59.1 | 0.616 | 1.633 | 87.5 | 210.6 | --- | 2.639 | 5.71 | 0.561 | 56.3 | 232.8 | 6.5 | 0.411 |
| 4-3190 | 4-3730 | 0.568 | 152.7 | 13.9 | 1.34 | 1.193 | 61.0 | 0.601 | 1.665 | 82.7 | 212.2 | --- | 2.665 | 6.21 | 0.568 | 56.9 | 237.5 | 7.2 | 0.409 |
| 4-3190 | 4-3750 | 0.536 | 154.6 | 11.3 | 0.34 | 1.198 | 62.9 | 0.588 | 1.696 | 77.8 | 213.6 | --- | 2.693 | 6.88 | 0.575 | 57.5 | 242.3 | 8.2 | 0.408 |
| 4-3190 | 4-3770 | 0.506 | 156.2 | 7.8 | -0.90 | 1.202 | 64.8 | 0.575 | 1.727 | 72.9 | 215.0 | --- | 2.720 | 7.82 | 0.580 | 58.0 | 247.2 | 9.5 | 0.407 |
| 4-3190 | 4-3790 | 0.478 | 157.4 | 3.1 | -2.52 | 1.206 | 66.7 | 0.564 | 1.757 | 67.9 | 216.3 | --- | 2.748 | 9.16 | 0.584 | 58.5 | 252.3 | 11.2 | 0.408 |
| 4-3190 | 4-3810 | 0.456 | 157.7 | -3.6 | -4.82 | 1.210 | 68.5 | 0.555 | 1.787 | 62.9 | 217.4 | --- | 2.777 | 11.18 | 0.587 | 58.9 | 257.6 | 13.7 | 0.411 |
| 4-3190 | 4-3830 | 0.448 | 155.9 | -13.5 | -8.37 | 1.214 | 70.3 | 0.546 | 1.816 | 58.0 | 218.4 | --- | 2.807 | 14.46 | 0.590 | 59.3 | 263.3 | 17.6 | 0.419 |
| 4-3190 | 4-3850 | 0.481 | 148.9 | -27.9 | -14.72 | 1.217 | 72.0 | 0.539 | 1.844 | 53.1 | 219.4 | --- | 2.838 | 20.56 | 0.591 | 59.6 | 270.3 | 23.8 | 0.443 |
| 4-3190 | 4-3870 | 0.660 | 126.3 | -43.2 | -29.09 | 1.221 | 73.5 | 0.534 | 1.872 | 48.6 | 220.1 | --- | 2.872 | 34.68 | 0.592 | 59.8 | 282.0 | 33.8 | 0.523 |
| 4-3200 | 4-3360 | 1.416 | 118.8 | 25.4 | 51.33 | 1.094 | 7.6 | 0.992 | 1.216 | 171.0 | 178.7 | --- | --- | 47.22 | 0.168 | 158.9 | 197.5 | 3.9 | 0.648 |
| 4-3200 | 4-3380 | 1.344 | 121.3 | 25.1 | 31.73 | 1.084 | 11.1 | 0.982 | 1.182 | 167.0 | 179.2 | --- | --- | 27.89 | 0.112 | 127.7 | 196.0 | 4.0 | 0.594 |
| 4-3200 | 4-3400 | 1.283 | 123.7 | 24.8 | 22.88 | 1.081 | 14.8 | 0.967 | 1.174 | 162.8 | 180.1 | --- | 2.310 | 19.32 | 0.119 | 88.3 | 194.8 | 4.1 | 0.555 |
| 4-3200 | 4-3420 | 1.228 | 126.0 | 24.4 | 18.00 | 1.083 | 18.4 | 0.950 | 1.180 | 158.6 | 181.3 | --- | 2.302 | 14.73 | 0.161 | 66.8 | 194.1 | 4.1 | 0.527 |
| 4-3200 | 4-3440 | 1.179 | 128.3 | 24.0 | 14.90 | 1.088 | 21.7 | 0.931 | 1.195 | 154.4 | 182.8 | --- | 2.308 | 11.93 | 0.209 | 57.2 | 194.1 | 4.1 | 0.507 |
| 4-3200 | 4-3460 | 1.134 | 130.5 | 23.6 | 12.74 | 1.094 | 24.8 | 0.911 | 1.215 | 150.3 | 184.4 | --- | 2.322 | 10.07 | 0.254 | 52.5 | 194.5 | 4.1 | 0.493 |
| 4-3200 | 4-3480 | 1.090 | 132.7 | 23.1 | 11.11 | 1.102 | 27.8 | 0.890 | 1.240 | 146.2 | 186.2 | --- | 2.342 | 8.78 | 0.296 | 50.1 | 195.6 | 4.1 | 0.482 |
| 4-3200 | 4-3500 | 1.049 | 134.9 | 22.6 | 9.83 | 1.109 | 30.6 | 0.868 | 1.267 | 142.0 | 188.1 | --- | 2.366 | 7.84 | 0.334 | 48.9 | 197.1 | 4.2 | 0.474 |
| 4-3200 | 4-3520 | 1.009 | 137.0 | 22.0 | 8.77 | 1.117 | 33.3 | 0.846 | 1.296 | 137.9 | 190.1 | --- | 2.392 | 7.14 | 0.368 | 48.5 | 199.1 | 4.2 | 0.469 |
| 4-3200 | 4-3540 | 0.970 | 139.1 | 21.5 | 7.86 | 1.125 | 35.9 | 0.824 | 1.327 | 133.7 | 192.1 | --- | 2.419 | 6.62 | 0.399 | 48.4 | 201.6 | 4.3 | 0.464 |
| 4-3200 | 4-3560 | 0.932 | 141.1 | 20.8 | 7.05 | 1.133 | 38.4 | 0.802 | 1.358 | 129.5 | 194.2 | --- | 2.447 | 6.24 | 0.426 | 48.7 | 204.4 | 4.3 | 0.460 |
| 4-3200 | 4-3580 | 0.895 | 143.2 | 20.1 | 6.32 | 1.141 | 40.8 | 0.780 | 1.391 | 125.2 | 196.2 | --- | 2.475 | 5.96 | 0.450 | 49.1 | 207.5 | 4.4 | 0.456 |
| 4-3200 | 4-3600 | 0.858 | 145.2 | 19.4 | 5.64 | 1.148 | 43.2 | 0.758 | 1.424 | 120.8 | 198.3 | --- | 2.504 | 5.78 | 0.472 | 49.7 | 211.0 | 4.6 | 0.453 |
| 4-3200 | 4-3620 | 0.821 | 147.3 | 18.5 | 4.98 | 1.155 | 45.5 | 0.737 | 1.457 | 116.4 | 200.3 | --- | 2.532 | 5.67 | 0.491 | 50.4 | 214.7 | 4.8 | 0.450 |
| 4-3200 | 4-3640 | 0.785 | 149.3 | 17.6 | 4.34 | 1.162 | 47.8 | 0.717 | 1.491 | 111.9 | 202.3 | --- | 2.560 | 5.64 | 0.508 | 51.1 | 218.7 | 5.0 | 0.447 |
| 4-3200 | 4-3660 | 0.749 | 151.3 | 16.5 | 3.70 | 1.168 | 50.0 | 0.697 | 1.525 | 107.4 | 204.2 | --- | 2.588 | 5.68 | 0.523 | 51.9 | 222.8 | 5.3 | 0.444 |
| 4-3200 | 4-3680 | 0.714 | 153.3 | 15.3 | 3.04 | 1.174 | 52.1 | 0.678 | 1.558 | 102.8 | 206.1 | --- | 2.615 | 5.79 | 0.536 | 52.6 | 227.1 | 5.6 | 0.441 |
| 4-3200 | 4-3700 | 0.680 | 155.2 | 13.8 | 2.34 | 1.180 | 54.2 | 0.660 | 1.592 | 98.1 | 207.9 | --- | 2.643 | 5.99 | 0.547 | 53.4 | 231.6 | 6.0 | 0.437 |
| 4-3200 | 4-3720 | 0.646 | 157.2 | 12.2 | 1.59 | 1.185 | 56.3 | 0.643 | 1.625 | 93.4 | 209.6 | --- | 2.670 | 6.29 | 0.557 | 54.2 | 236.2 | 6.5 | 0.434 |
| 4-3200 | 4-3740 | 0.612 | 159.0 | 10.2 | 0.75 | 1.190 | 58.3 | 0.627 | 1.658 | 88.6 | 211.2 | --- | 2.698 | 6.70 | 0.565 | 54.9 | 240.9 | 7.2 | 0.431 |
| 4-3200 | 4-3760 | 0.580 | 160.8 | 7.7 | -0.20 | 1.195 | 60.3 | 0.613 | 1.690 | 83.8 | 212.7 | --- | 2.726 | 7.26 | 0.571 | 55.7 | 245.6 | 8.0 | 0.428 |
| 4-3200 | 4-3780 | 0.549 | 162.3 | 4.7 | -1.33 | 1.200 | 62.2 | 0.599 | 1.722 | 78.9 | 214.1 | --- | 2.754 | 8.02 | 0.577 | 56.3 | 250.5 | 9.0 | 0.426 |
| 4-3200 | 4-3800 | 0.520 | 163.6 | 0.8 | -2.73 | 1.204 | 64.1 | 0.587 | 1.753 | 74.0 | 215.4 | --- | 2.782 | 9.06 | 0.581 | 56.9 | 255.5 | 10.4 | 0.424 |
| 4-3200 | 4-3820 | 0.495 | 164.3 | -4.3 | -4.53 | 1.208 | 66.0 | 0.575 | 1.784 | 69.1 | 216.6 | --- | 2.811 | 10.53 | 0.584 | 57.5 | 260.6 | 12.3 | 0.424 |
| 4-3200 | 4-3840 | 0.477 | 163.9 | -11.3 | -7.02 | 1.212 | 67.8 | 0.566 | 1.814 | 64.2 | 217.6 | --- | 2.840 | 12.69 | 0.586 | 58.0 | 265.9 | 14.9 | 0.426 |
| 4-3200 | 4-3860 | 0.476 | 161.3 | -20.8 | -10.73 | 1.216 | 69.5 | 0.557 | 1.844 | 59.3 | 218.6 | --- | 2.871 | 16.10 | 0.588 | 58.4 | 271.8 | 18.7 | 0.434 |
| 4-3200 | 4-3880 | 0.516 | 153.3 | -33.4 | -17.00 | 1.219 | 71.2 | 0.550 | 1.872 | 54.6 | 219.4 | --- | 2.903 | 22.07 | 0.589 | 58.7 | 278.8 | 24.5 | 0.457 |
| 4-3200 | 4-3900 | 0.674 | 132.4 | -44.9 | -29.63 | 1.222 | 72.8 | 0.545 | 1.900 | 50.2 | 220.2 | --- | 2.937 | 34.41 | 0.590 | 58.9 | 289.6 | 33.0 | 0.524 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
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ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3420 | 4-3620 | 0.740 | 187.3 | -12.4 | -6.41 | 1.236 | 127.2 | 0.737 | 2.125 | 267.6 | 498.3 | 0.558 | --- | 9.21 | 0.676 | 137.5 | 319.9 | 7.3 | 0.578 |
| 4-3420 | 4-3640 | 0.675 | 187.7 | -11.5 | -5.17 | 1.199 | 124.9 | 0.676 | 1.784 | 267.4 | 504.4 | 0.578 | --- | 8.48 | 0.607 | 131.1 | 320.7 | 8.0 | 0.486 |
| 4-3420 | 4-3660 | 0.628 | 188.1 | -10.5 | -4.10 | 1.174 | 123.1 | 0.631 | 1.610 | 267.1 | 510.6 | 0.593 | --- | 7.95 | 0.555 | 124.6 | 320.4 | 8.8 | 0.413 |
| 4-3420 | 4-3680 | 0.597 | 188.8 | -9.4 | -3.15 | 1.156 | 121.9 | 0.601 | 1.511 | 266.7 | 516.6 | 0.603 | --- | 7.57 | 0.517 | 118.0 | 318.6 | 9.7 | 0.355 |
| 4-3420 | 4-3700 | 0.577 | 189.5 | -8.3 | -2.27 | 1.145 | 121.2 | 0.582 | 1.451 | 266.1 | 522.5 | 0.607 | --- | 7.32 | 0.488 | 111.5 | 315.4 | 10.7 | 0.313 |
| 4-3420 | 4-3720 | 0.568 | 190.4 | -7.2 | -1.44 | 1.137 | 120.9 | 0.572 | 1.415 | 265.2 | 528.0 | 0.606 | --- | 7.17 | 0.468 | 105.1 | 310.7 | 11.4 | 0.285 |
| 4-3420 | 4-3740 | 0.569 | 191.5 | -6.1 | -0.64 | 1.132 | 121.1 | 0.571 | 1.394 | 264.0 | 533.2 | 0.599 | --- | 7.11 | 0.452 | 98.9 | 305.3 | 11.8 | 0.272 |
| 4-3420 | 4-3760 | 0.579 | 192.8 | -5.2 | 0.16 | 1.130 | 121.8 | 0.577 | 1.383 | 262.3 | 537.9 | 0.586 | --- | 7.15 | 0.442 | 92.8 | 300.1 | 11.7 | 0.271 |
| 4-3420 | 4-3780 | 0.597 | 194.2 | -4.4 | 0.96 | 1.129 | 122.8 | 0.589 | 1.380 | 260.3 | 542.1 | 0.567 | 2.192 | 7.27 | 0.434 | 87.0 | 296.0 | 11.3 | 0.281 |
| 4-3420 | 4-3800 | 0.624 | 195.9 | -3.9 | 1.79 | 1.129 | 124.3 | 0.608 | 1.381 | 257.7 | 545.8 | 0.542 | 2.221 | 7.48 | 0.429 | 81.2 | 293.4 | 10.6 | 0.300 |
| 4-3420 | 4-3820 | 0.658 | 197.7 | -3.5 | 2.67 | 1.131 | 126.2 | 0.632 | 1.387 | 254.7 | 548.8 | 0.511 | 2.264 | 7.80 | 0.425 | 75.5 | 292.6 | 9.9 | 0.325 |
| 4-3420 | 4-3840 | 0.700 | 199.7 | -3.3 | 3.62 | 1.133 | 128.5 | 0.661 | 1.396 | 251.1 | 551.3 | 0.473 | 2.319 | 8.23 | 0.423 | 69.8 | 293.2 | 9.2 | 0.356 |
| 4-3420 | 4-3860 | 0.750 | 201.8 | -3.4 | 4.68 | 1.135 | 131.3 | 0.694 | 1.408 | 247.0 | 553.1 | 0.430 | 2.385 | 8.82 | 0.422 | 64.0 | 295.1 | 8.6 | 0.390 |
| 4-3420 | 4-3880 | 0.808 | 204.1 | -3.7 | 5.90 | 1.138 | 134.4 | 0.732 | 1.422 | 242.4 | 554.3 | 0.382 | 2.462 | 9.58 | 0.422 | 58.2 | 298.0 | 8.0 | 0.428 |
| 4-3420 | 4-3900 | 0.873 | 206.6 | -4.1 | 7.33 | 1.142 | 138.1 | 0.771 | 1.438 | 237.2 | 554.9 | 0.329 | 2.547 | 10.59 | 0.422 | 52.1 | 301.8 | 7.5 | 0.468 |
| 4-3420 | 4-3920 | 0.946 | 209.3 | -4.8 | 9.09 | 1.146 | 142.2 | 0.813 | 1.456 | 231.5 | 554.8 | 0.273 | 2.639 | 11.95 | 0.424 | 46.0 | 306.4 | 7.1 | 0.511 |
| 4-3420 | 4-3940 | 1.025 | 212.1 | -5.6 | 11.32 | 1.150 | 146.7 | 0.854 | 1.476 | 225.3 | 554.1 | 0.216 | 2.735 | 13.80 | 0.426 | 39.6 | 311.5 | 6.7 | 0.555 |
| 4-3420 | 4-3960 | 1.109 | 215.1 | -6.5 | 14.33 | 1.154 | 151.5 | 0.893 | 1.497 | 218.7 | 552.8 | 0.160 | 2.834 | 16.45 | 0.429 | 33.2 | 317.1 | 6.4 | 0.600 |
| 4-3420 | 4-3980 | 1.198 | 218.2 | -7.6 | 18.66 | 1.158 | 156.6 | 0.928 | 1.520 | 211.8 | 551.0 | 0.110 | 2.931 | 20.43 | 0.432 | 26.7 | 323.1 | 6.0 | 0.646 |
| 4-3430 | 4-3630 | 0.715 | 194.2 | -16.4 | -6.70 | 1.244 | 125.4 | 0.730 | 2.190 | 272.0 | 496.0 | 0.591 | --- | 10.24 | 0.687 | 136.9 | 324.0 | 8.3 | 0.575 |
| 4-3430 | 4-3650 | 0.649 | 194.7 | -15.1 | -5.21 | 1.208 | 123.1 | 0.666 | 1.830 | 271.8 | 502.3 | 0.612 | --- | 9.22 | 0.619 | 130.7 | 325.1 | 9.0 | 0.483 |
| 4-3430 | 4-3670 | 0.602 | 195.2 | -13.7 | -3.96 | 1.182 | 121.3 | 0.620 | 1.647 | 271.6 | 508.5 | 0.627 | --- | 8.48 | 0.588 | 124.4 | 325.0 | 9.7 | 0.409 |
| 4-3430 | 4-3690 | 0.570 | 195.9 | -12.3 | -2.89 | 1.165 | 120.1 | 0.587 | 1.543 | 271.3 | 514.7 | 0.637 | --- | 7.95 | 0.530 | 118.2 | 323.6 | 10.6 | 0.352 |
| 4-3430 | 4-3710 | 0.549 | 196.7 | -10.9 | -1.94 | 1.153 | 119.3 | 0.566 | 1.480 | 270.8 | 520.6 | 0.642 | --- | 7.57 | 0.501 | 112.0 | 320.6 | 11.4 | 0.308 |
| 4-3430 | 4-3730 | 0.539 | 197.6 | -9.6 | -1.06 | 1.145 | 119.0 | 0.555 | 1.442 | 270.1 | 526.2 | 0.642 | --- | 7.31 | 0.480 | 106.0 | 316.3 | 12.2 | 0.279 |
| 4-3430 | 4-3750 | 0.539 | 198.7 | -8.4 | -0.24 | 1.140 | 119.1 | 0.552 | 1.420 | 269.0 | 531.5 | 0.636 | --- | 7.16 | 0.464 | 100.2 | 311.0 | 12.5 | 0.263 |
| 4-3430 | 4-3770 | 0.546 | 200.0 | -7.4 | 0.55 | 1.138 | 119.6 | 0.556 | 1.408 | 267.5 | 536.3 | 0.626 | --- | 7.10 | 0.453 | 94.6 | 305.8 | 12.5 | 0.259 |
| 4-3430 | 4-3790 | 0.562 | 201.4 | -6.5 | 1.33 | 1.137 | 120.5 | 0.566 | 1.403 | 265.6 | 540.7 | 0.610 | 2.197 | 7.13 | 0.445 | 89.1 | 301.4 | 12.0 | 0.265 |
| 4-3430 | 4-3810 | 0.584 | 202.9 | -5.8 | 2.11 | 1.137 | 121.8 | 0.581 | 1.404 | 263.3 | 544.5 | 0.588 | 2.220 | 7.24 | 0.439 | 83.8 | 298.5 | 11.3 | 0.280 |
| 4-3430 | 4-3830 | 0.614 | 204.7 | -5.4 | 2.92 | 1.138 | 123.4 | 0.602 | 1.409 | 260.5 | 547.8 | 0.561 | 2.258 | 7.44 | 0.434 | 78.5 | 297.2 | 10.5 | 0.302 |
| 4-3430 | 4-3850 | 0.651 | 206.5 | -5.2 | 3.77 | 1.140 | 125.4 | 0.628 | 1.417 | 257.2 | 550.5 | 0.528 | 2.307 | 7.73 | 0.431 | 73.3 | 297.3 | 9.7 | 0.328 |
| 4-3430 | 4-3870 | 0.695 | 208.5 | -5.2 | 4.69 | 1.142 | 127.8 | 0.657 | 1.428 | 253.5 | 552.7 | 0.489 | 2.367 | 8.14 | 0.429 | 68.1 | 298.8 | 9.0 | 0.359 |
| 4-3430 | 4-3890 | 0.745 | 210.7 | -5.4 | 5.70 | 1.145 | 130.5 | 0.691 | 1.441 | 249.3 | 554.3 | 0.446 | 2.436 | 8.68 | 0.428 | 62.8 | 301.3 | 8.4 | 0.392 |
| 4-3430 | 4-3910 | 0.803 | 213.0 | -5.8 | 6.84 | 1.148 | 133.7 | 0.727 | 1.456 | 244.6 | 555.3 | 0.397 | 2.515 | 9.38 | 0.428 | 57.3 | 304.6 | 7.9 | 0.427 |
| 4-3430 | 4-3930 | 0.867 | 215.4 | -6.3 | 8.17 | 1.152 | 137.2 | 0.766 | 1.473 | 239.4 | 555.7 | 0.345 | 2.601 | 10.30 | 0.429 | 51.7 | 308.6 | 7.4 | 0.465 |
| 4-3430 | 4-3950 | 0.937 | 218.0 | -7.0 | 9.78 | 1.155 | 141.1 | 0.806 | 1.491 | 233.8 | 555.5 | 0.289 | 2.692 | 11.51 | 0.430 | 46.0 | 313.3 | 7.0 | 0.505 |
| 4-3430 | 4-3970 | 1.013 | 220.7 | -7.8 | 11.79 | 1.159 | 145.4 | 0.846 | 1.511 | 227.7 | 554.8 | 0.233 | 2.788 | 13.14 | 0.431 | 40.1 | 318.4 | 6.7 | 0.545 |
| 4-3430 | 4-3990 | 1.094 | 223.6 | -8.7 | 14.42 | 1.163 | 150.1 | 0.884 | 1.532 | 221.3 | 553.6 | 0.178 | 2.886 | 15.42 | 0.434 | 34.1 | 324.0 | 6.3 | 0.587 |
| 4-3430 | 4-4010 | 1.179 | 226.6 | -9.7 | 18.07 | 1.167 | 154.9 | 0.918 | 1.555 | 214.6 | 552.0 | 0.127 | 2.983 | 18.73 | 0.437 | 28.1 | 329.9 | 6.0 | 0.629 |
| 4-3440 | 4-3640 | 0.689 | 201.1 | -20.6 | -7.16 | 1.252 | 123.6 | 0.723 | 2.250 | 276.5 | 493.8 | 0.624 | --- | 11.37 | 0.696 | 136.2 | 328.1 | 9.6 | 0.571 |
| 4-3440 | 4-3660 | 0.623 | 201.7 | -18.7 | -5.31 | 1.215 | 121.3 | 0.656 | 1.874 | 276.4 | 500.2 | 0.645 | --- | 9.96 | 0.629 | 130.3 | 329.3 | 10.0 | 0.479 |
| 4-3440 | 4-3680 | 0.576 | 202.4 | -16.8 | -3.85 | 1.190 | 119.5 | 0.608 | 1.683 | 276.3 | 506.5 | 0.660 | --- | 8.96 | 0.579 | 124.2 | 329.5 | 10.6 | 0.405 |
| 4-3440 | 4-3700 | 0.543 | 203.1 | -15.1 | -2.64 | 1.173 | 118.3 | 0.574 | 1.575 | 276.1 | 512.7 | 0.671 | --- | 8.24 | 0.541 | 118.2 | 328.3 | 11.3 | 0.347 |
| 4-3440 | 4-3720 | 0.522 | 204.0 | -13.4 | -1.60 | 1.161 | 117.5 | 0.552 | 1.509 | 275.7 | 518.8 | 0.676 | --- | 7.71 | 0.513 | 112.4 | 325.7 | 12.1 | 0.303 |
| 4-3440 | 4-3740 | 0.511 | 204.9 | -11.8 | -0.68 | 1.153 | 117.1 | 0.539 | 1.469 | 275.1 | 524.5 | 0.677 | --- | 7.34 | 0.491 | 106.7 | 321.6 | 12.8 | 0.272 |
| 4-3440 | 4-3760 | 0.509 | 206.0 | -10.4 | 0.16 | 1.148 | 117.2 | 0.534 | 1.445 | 274.1 | 529.8 | 0.673 | --- | 7.09 | 0.476 | 101.2 | 316.5 | 13.1 | 0.254 |
| 4-3440 | 4-3780 | 0.515 | 207.3 | -9.2 | 0.95 | 1.146 | 117.6 | 0.536 | 1.432 | 272.7 | 534.8 | 0.664 | --- | 6.94 | 0.464 | 96.0 | 311.3 | 13.0 | 0.248 |
| 4-3440 | 4-3800 | 0.528 | 208.6 | -8.3 | 1.70 | 1.145 | 118.3 | 0.544 | 1.427 | 271.0 | 539.3 | 0.650 | --- | 6.87 | 0.455 | 90.9 | 306.7 | 12.5 | 0.251 |
| 4-3440 | 4-3820 | 0.548 | 210.1 | -7.5 | 2.44 | 1.145 | 119.4 | 0.557 | 1.427 | 268.9 | 543.2 | 0.632 | 2.223 | 6.89 | 0.448 | 86.0 | 303.5 | 11.8 | 0.263 |
| 4-3440 | 4-3840 | 0.574 | 211.8 | -7.1 | 3.18 | 1.145 | 120.8 | 0.575 | 1.431 | 266.3 | 546.7 | 0.608 | 2.255 | 6.99 | 0.443 | 81.1 | 301.8 | 10.9 | 0.281 |
| 4-3440 | 4-3860 | 0.606 | 213.5 | -6.8 | 3.94 | 1.147 | 122.5 | 0.598 | 1.439 | 263.3 | 549.6 | 0.579 | 2.299 | 7.16 | 0.440 | 76.3 | 301.6 | 10.1 | 0.304 |
| 4-3440 | 4-3880 | 0.645 | 215.4 | -6.7 | 4.74 | 1.149 | 124.6 | 0.624 | 1.449 | 259.8 | 552.1 | 0.545 | 2.353 | 7.43 | 0.437 | 71.5 | 302.6 | 9.3 | 0.331 |
| 4-3440 | 4-3900 | 0.689 | 217.4 | -6.9 | 5.59 | 1.152 | 127.0 | 0.654 | 1.461 | 256.0 | 553.9 | 0.506 | 2.416 | 7.79 | 0.435 | 66.7 | 304.7 | 8.7 | 0.360 |
| 4-3440 | 4-3920 | 0.739 | 219.5 | -7.2 | 6.51 | 1.154 | 129.7 | 0.686 | 1.475 | 251.7 | 555.3 | 0.463 | 2.488 | 8.26 | 0.434 | 61.8 | 307.6 | 8.1 | 0.391 |
| 4-3440 | 4-3940 | 0.795 | 221.8 | -7.7 | 7.55 | 1.158 | 132.8 | 0.722 | 1.491 | 247.0 | 556.2 | 0.415 | 2.567 | 8.88 | 0.434 | 56.8 | 311.2 | 7.6 | 0.424 |
| 4-3440 | 4-3960 | 0.858 | 224.2 | -8.3 | 8.75 | 1.161 | 136.2 | 0.759 | 1.508 | 241.9 | 556.5 | 0.363 | 2.653 | 9.68 | 0.434 | 51.6 | 315.4 | 7.2 | 0.459 |
| 4-3440 | 4-3980 | 0.925 | 226.7 | -9.0 | 10.16 | 1.164 | 140.0 | 0.798 | 1.526 | 236.3 | 556.3 | 0.309 | 2.744 | 10.72 | 0.435 | 46.3 | 320.1 | 6.8 | 0.496 |
| 4-3440 | 4-4000 | 0.998 | 229.3 | -9.8 | 11.90 | 1.168 | 144.1 | 0.836 | 1.546 | 230.4 | 555.6 | 0.253 | 2.839 | 12.10 | 0.437 | 40.8 | 325.2 | 6.4 | 0.533 |
| 4-3440 | 4-4020 | 1.075 | 232.1 | -10.7 | 14.12 | 1.172 | 148.5 | 0.873 | 1.567 | 224.2 | 554.5 | 0.198 | 2.936 | 13.98 | 0.439 | 35.2 | 330.7 | 6.1 | 0.572 |
| 4-3440 | 4-4040 | 1.156 | 235.0 | -11.6 | 17.11 | 1.175 | 153.1 | 0.908 | 1.589 | 217.6 | 552.9 | 0.147 | 3.032 | 16.64 | 0.442 | 29.6 | 336.5 | 5.9 | 0.611 |
| 4-3450 | 4-3650 | 0.664 | 208.1 | -25.2 | -7.89 | 1.258 | 121.7 | 0.715 | 2.306 | 281.1 | 491.7 | 0.658 | --- | 12.70 | 0.704 | 135.5 | 332.0 | 11.1 | 0.566 |
| 4-3450 | 4-3670 | 0.596 | 208.8 | -22.4 | -5.51 | 1.222 | 119.4 | 0.646 | 1.915 | 281.1 | 498.2 | 0.678 | --- | 10.72 | 0.638 | 129.7 | 333.5 | 11.1 | 0.474 |
| 4-3450 | 4-3690 | 0.548 | 209.6 | -19.8 | -3.76 | 1.197 | 117.7 | 0.597 | 1.718 | 281.2 | 504.6 | 0.693 | --- | 9.38 | 0.588 | 123.9 | 333.8 | 11.5 | 0.400 |
| 4-3450 | 4-3710 | 0.515 | 210.4 | -17.6 | -2.38 | 1.180 | 116.5 | 0.562 | 1.605 | 281.1 | 510.9 | 0.704 | --- | 8.43 | 0.551 | 118.2 | 332.9 | 12.0 | 0.342 |
| 4-3450 | 4-3730 | 0.494 | 211.3 | -15.5 | -1.24 | 1.169 | 115.7 | 0.538 | 1.538 | 280.8 | 517.0 | 0.710 | --- | 7.75 | 0.523 | 112.8 | 330.5 | 12.6 | 0.298 |
| 4-3450 | 4-3750 | 0.483 | 212.3 | -13.7 | -0.27 | 1.161 | 115.3 | 0.525 | 1.496 | 280.2 | 522.8 | 0.711 | --- | 7.25 | 0.502 | 107.3 | 326.7 | 13.1 | 0.266 |
| 4-3450 | 4-3770 | 0.480 | 213.4 | -12.1 | 0.59 | 1.156 | 115.3 | 0.518 | 1.471 | 279.3 | 528.3 | 0.708 | --- | 6.90 | 0.486 | 102.1 | 321.8 | 13.4 | 0.246 |
| 4-3450 | 4-3790 | 0.485 | 214.6 | -10.7 | 1.37 | 1.153 | 115.6 | 0.519 | 1.457 | 278.1 | 533.3 | 0.701 | --- | 6.66 | 0.473 | 97.1 | 316.6 | 13.3 | 0.237 |
| 4-3450 | 4-3810 | 0.496 | 216.0 | -9.7 | 2.10 | 1.152 | 116.2 | 0.525 | 1.451 | 276.5 | 537.8 | 0.689 | --- | 6.51 | 0.464 | 92.4 | 311.9 | 12.7 | 0.239 |
| 4-3450 | 4-3830 | 0.513 | 217.4 | -8.9 | 2.79 | 1.152 | 117.2 | 0.536 | 1.450 | 274.5 | 541.9 | 0.673 | 2.228 | 6.44 | 0.457 | 87.8 | 308.4 | 11.9 | 0.248 |
| 4-3450 | 4-3850 | 0.536 | 219.0 | -8.4 | 3.47 | 1.153 | 118.4 | 0.551 | 1.454 | 272.1 | 545.5 | 0.652 | 2.256 | 6.45 | 0.452 | 83.3 | 308.4 | 11.0 | 0.263 |
| 4-3450 | 4-3870 | 0.565 | 220.7 | -8.1 | 4.14 | 1.154 | 119.9 | 0.571 | 1.461 | 269.3 | 548.6 | 0.627 | 2.295 | 6.52 | 0.447 | 78.9 | 305.8 | 10.2 | 0.283 |
| 4-3450 | 4-3890 | 0.599 | 222.4 | -8.0 | 4.83 | 1.156 | 121.7 | 0.594 | 1.470 | 266.1 | 551.3 | 0.597 | 2.344 | 6.67 | 0.444 | 74.5 | 306.5 | 9.4 | 0.306 |
| 4-3450 | 4-3910 | 0.638 | 224.3 | -8.1 | 5.55 | 1.158 | 123.8 | 0.620 | 1.482 | 262.5 | 553.4 | 0.563 | 2.401 | 6.89 | 0.442 | 70.1 | 308.2 | 8.7 | 0.331 |
| 4-3450 | 4-3930 | 0.682 | 226.3 | -8.4 | 6.31 | 1.161 | 126.2 | 0.649 | 1.495 | 258.8 | 555.1 | 0.524 | 2.466 | 7.20 | 0.440 | 65.6 | 310.7 | 8.0 | 0.359 |
| 4-3450 | 4-3950 | 0.731 | 228.4 | -8.8 | 7.13 | 1.164 | 128.8 | 0.681 | 1.510 | 254.3 | 556.3 | 0.481 | 2.539 | 7.60 | 0.439 | 61.1 | 314.0 | 7.5 | 0.388 |
| 4-3450 | 4-3970 | 0.786 | 230.6 | -9.3 | 8.04 | 1.167 | 131.8 | 0.716 | 1.526 | 249.6 | 557.0 | 0.434 | 2.618 | 8.12 | 0.439 | 56.4 | 317.8 | 7.1 | 0.419 |
| 4-3450 | 4-3990 | 0.846 | 232.9 | -10.0 | 9.07 | 1.170 | 135.1 | 0.752 | 1.543 | 244.5 | 557.3 | 0.383 | 2.703 | 8.78 | 0.439 | 51.6 | 322.1 | 6.7 | 0.451 |
| 4-3450 | 4-4010 | 0.911 | 235.3 | -10.7 | 10.28 | 1.173 | 138.7 | 0.789 | 1.562 | 239.1 | 557.1 | 0.330 | 2.793 | 9.64 | 0.440 | 46.7 | 326.8 | 6.4 | 0.485 |
| 4-3450 | 4-4030 | 0.980 | 237.9 | -11.5 | 11.73 | 1.176 | 142.6 | 0.826 | 1.581 | 233.4 | 556.5 | 0.276 | 2.887 | 10.76 | 0.442 | 41.6 | 331.9 | 6.1 | 0.520 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3450 | 4-4050 | 1.054 | 240.6 | -12.3 | 13.54 | 1.180 | 146.7 | 0.862 | 1.602 | 227.3 | 555.4 | 0.221 | 2.982 | 12.26 | 0.444 | 36.4 | 337.3 | 5.8 | 0.556 |
| 4-3450 | 4-4070 | 1.131 | 243.5 | -13.1 | 15.91 | 1.183 | 151.2 | 0.896 | 1.623 | 220.9 | 554.0 | 0.169 | 3.078 | 14.33 | 0.447 | 31.1 | 343.0 | 5.5 | 0.592 |
| 4-3450 | 4-4090 | 1.211 | 246.4 | -14.0 | 19.17 | 1.187 | 155.8 | 0.927 | 1.646 | 214.3 | 552.2 | 0.121 | 3.171 | 17.30 | 0.450 | 25.8 | 348.9 | 5.3 | 0.629 |
| 4-3460 | 4-3660 | 0.640 | 215.0 | -30.6 | -9.10 | 1.263 | 119.7 | 0.706 | 2.355 | 285.8 | 489.7 | 0.692 | --- | 14.45 | 0.710 | 134.7 | 335.7 | 13.0 | 0.562 |
| 4-3460 | 4-3680 | 0.569 | 215.9 | -26.2 | -5.87 | 1.228 | 117.5 | 0.636 | 1.953 | 286.0 | 498.3 | 0.711 | --- | 11.57 | 0.646 | 129.1 | 337.5 | 12.4 | 0.468 |
| 4-3460 | 4-3700 | 0.520 | 216.8 | -22.7 | -3.69 | 1.204 | 115.8 | 0.585 | 1.750 | 286.2 | 502.8 | 0.726 | --- | 9.75 | 0.597 | 123.5 | 338.0 | 12.3 | 0.395 |
| 4-3460 | 4-3720 | 0.487 | 217.7 | -19.7 | -2.09 | 1.187 | 114.6 | 0.549 | 1.635 | 286.2 | 509.2 | 0.737 | --- | 8.52 | 0.580 | 118.0 | 337.3 | 12.6 | 0.336 |
| 4-3460 | 4-3740 | 0.466 | 218.7 | -17.2 | -0.84 | 1.176 | 113.8 | 0.525 | 1.565 | 286.0 | 515.4 | 0.743 | --- | 7.65 | 0.532 | 112.7 | 335.1 | 12.9 | 0.291 |
| 4-3460 | 4-3760 | 0.455 | 219.7 | -15.0 | 0.19 | 1.168 | 113.4 | 0.511 | 1.522 | 285.5 | 521.3 | 0.745 | --- | 7.02 | 0.511 | 107.6 | 331.5 | 13.3 | 0.259 |
| 4-3460 | 4-3780 | 0.452 | 220.8 | -13.2 | 1.06 | 1.163 | 113.4 | 0.504 | 1.496 | 284.7 | 526.8 | 0.743 | --- | 6.57 | 0.495 | 102.8 | 326.8 | 13.4 | 0.238 |
| 4-3460 | 4-3800 | 0.456 | 222.0 | -11.7 | 1.83 | 1.160 | 113.6 | 0.503 | 1.481 | 283.4 | 531.8 | 0.736 | --- | 6.25 | 0.482 | 98.1 | 321.6 | 13.2 | 0.228 |
| 4-3460 | 4-3820 | 0.465 | 223.3 | -10.6 | 2.53 | 1.159 | 114.2 | 0.507 | 1.475 | 282.1 | 536.5 | 0.726 | --- | 6.02 | 0.473 | 93.6 | 316.9 | 12.6 | 0.227 |
| 4-3460 | 4-3840 | 0.481 | 224.8 | -9.7 | 3.18 | 1.159 | 115.0 | 0.517 | 1.473 | 280.2 | 540.6 | 0.712 | 2.235 | 5.88 | 0.465 | 89.3 | 313.2 | 11.8 | 0.234 |
| 4-3460 | 4-3860 | 0.501 | 226.3 | -9.2 | 3.79 | 1.159 | 116.1 | 0.530 | 1.477 | 278.0 | 544.3 | 0.694 | 2.259 | 5.81 | 0.459 | 85.1 | 310.9 | 10.8 | 0.246 |
| 4-3460 | 4-3880 | 0.527 | 227.9 | -8.9 | 4.39 | 1.160 | 117.4 | 0.547 | 1.483 | 275.3 | 547.6 | 0.672 | 2.294 | 5.80 | 0.455 | 81.0 | 310.0 | 9.9 | 0.263 |
| 4-3460 | 4-3900 | 0.557 | 229.5 | -8.8 | 4.98 | 1.162 | 119.0 | 0.567 | 1.492 | 272.3 | 550.4 | 0.646 | 2.338 | 5.86 | 0.451 | 77.0 | 310.3 | 9.1 | 0.283 |
| 4-3460 | 4-3920 | 0.591 | 231.3 | -8.9 | 5.58 | 1.164 | 120.8 | 0.590 | 1.503 | 269.0 | 552.7 | 0.616 | 2.398 | 5.97 | 0.448 | 73.0 | 311.7 | 8.4 | 0.306 |
| 4-3460 | 4-3940 | 0.630 | 233.2 | -9.2 | 6.20 | 1.167 | 122.9 | 0.616 | 1.516 | 265.4 | 554.7 | 0.582 | 2.450 | 6.15 | 0.446 | 68.9 | 314.0 | 7.8 | 0.330 |
| 4-3460 | 4-3960 | 0.674 | 235.1 | -9.6 | 6.85 | 1.169 | 125.2 | 0.645 | 1.530 | 261.4 | 556.1 | 0.543 | 2.516 | 6.39 | 0.445 | 64.8 | 316.9 | 7.2 | 0.356 |
| 4-3460 | 4-3980 | 0.722 | 237.2 | -10.1 | 7.54 | 1.172 | 127.8 | 0.676 | 1.545 | 257.0 | 557.2 | 0.501 | 2.589 | 6.71 | 0.444 | 60.6 | 320.4 | 6.8 | 0.383 |
| 4-3460 | 4-4000 | 0.774 | 239.4 | -10.7 | 8.31 | 1.175 | 130.7 | 0.709 | 1.561 | 252.4 | 557.9 | 0.455 | 2.668 | 7.13 | 0.444 | 56.3 | 324.3 | 6.4 | 0.412 |
| 4-3460 | 4-4020 | 0.832 | 241.6 | -11.3 | 9.17 | 1.178 | 133.8 | 0.743 | 1.579 | 247.4 | 558.1 | 0.406 | 2.752 | 7.66 | 0.444 | 51.8 | 328.7 | 6.1 | 0.441 |
| 4-3460 | 4-4040 | 0.893 | 244.0 | -12.0 | 10.15 | 1.181 | 137.2 | 0.778 | 1.597 | 242.1 | 557.9 | 0.354 | 2.840 | 8.34 | 0.445 | 47.3 | 333.4 | 5.8 | 0.472 |
| 4-3460 | 4-4060 | 0.959 | 246.5 | -12.8 | 11.32 | 1.184 | 140.9 | 0.814 | 1.616 | 236.5 | 557.4 | 0.301 | 2.932 | 9.21 | 0.447 | 42.6 | 338.4 | 5.5 | 0.505 |
| 4-3460 | 4-4080 | 1.029 | 249.2 | -13.6 | 12.75 | 1.187 | 144.9 | 0.849 | 1.636 | 230.6 | 556.4 | 0.247 | 3.026 | 10.35 | 0.449 | 37.7 | 343.8 | 5.3 | 0.538 |
| 4-3460 | 4-4100 | 1.102 | 251.9 | -14.3 | 14.56 | 1.191 | 149.1 | 0.883 | 1.657 | 224.5 | 555.1 | 0.195 | 3.120 | 11.89 | 0.452 | 32.7 | 349.3 | 5.0 | 0.572 |
| 4-3460 | 4-4120 | 1.179 | 254.8 | -15.1 | 16.97 | 1.194 | 153.5 | 0.914 | 1.679 | 218.0 | 553.4 | 0.145 | 3.214 | 14.05 | 0.455 | 27.7 | 355.1 | 4.8 | 0.607 |
| 4-3460 | 4-4140 | 1.257 | 257.7 | -15.8 | 20.40 | 1.197 | 158.1 | 0.941 | 1.702 | 211.4 | 551.5 | 0.100 | 3.304 | 17.22 | 0.459 | 22.6 | 1.1 | 4.7 | 0.642 |
| 4-3470 | 4-3670 | 0.623 | 221.8 | -37.9 | -11.35 | 1.268 | 117.6 | 0.697 | 2.394 | 290.8 | 487.9 | 0.726 | --- | 17.18 | 0.715 | 133.9 | 339.1 | 15.8 | 0.560 |
| 4-3470 | 4-3690 | 0.542 | 222.9 | -30.6 | -6.51 | 1.234 | 115.5 | 0.625 | 1.986 | 291.1 | 494.5 | 0.745 | --- | 12.63 | 0.652 | 128.4 | 341.3 | 14.0 | 0.463 |
| 4-3470 | 4-3710 | 0.491 | 224.0 | -25.4 | -3.66 | 1.210 | 113.8 | 0.574 | 1.780 | 291.4 | 501.2 | 0.759 | --- | 10.08 | 0.604 | 123.0 | 342.1 | 13.2 | 0.388 |
| 4-3470 | 4-3730 | 0.458 | 225.1 | -21.4 | -1.75 | 1.193 | 112.7 | 0.537 | 1.662 | 291.5 | 507.6 | 0.749 | --- | 8.47 | 0.568 | 117.8 | 341.5 | 13.0 | 0.329 |
| 4-3470 | 4-3750 | 0.438 | 226.1 | -18.3 | -0.35 | 1.182 | 111.9 | 0.513 | 1.591 | 291.4 | 513.9 | 0.775 | --- | 7.39 | 0.540 | 112.7 | 339.5 | 13.0 | 0.284 |
| 4-3470 | 4-3770 | 0.427 | 227.1 | -15.7 | 0.73 | 1.174 | 111.5 | 0.498 | 1.547 | 291.0 | 519.8 | 0.777 | --- | 6.63 | 0.519 | 107.9 | 336.1 | 13.1 | 0.251 |
| 4-3470 | 4-3790 | 0.424 | 228.3 | -13.6 | 1.61 | 1.169 | 111.4 | 0.490 | 1.520 | 290.3 | 525.4 | 0.776 | --- | 6.08 | 0.503 | 103.2 | 331.5 | 13.1 | 0.230 |
| 4-3470 | 4-3810 | 0.427 | 229.4 | -12.0 | 2.36 | 1.167 | 111.6 | 0.488 | 1.505 | 289.3 | 530.5 | 0.771 | --- | 5.69 | 0.490 | 98.8 | 326.4 | 12.7 | 0.218 |
| 4-3470 | 4-3830 | 0.436 | 230.7 | -10.8 | 3.02 | 1.165 | 112.1 | 0.491 | 1.498 | 287.9 | 535.2 | 0.762 | --- | 5.40 | 0.480 | 94.6 | 321.6 | 12.1 | 0.216 |
| 4-3470 | 4-3850 | 0.450 | 232.1 | -10.0 | 3.61 | 1.165 | 112.8 | 0.499 | 1.496 | 286.1 | 539.4 | 0.750 | --- | 5.20 | 0.473 | 90.6 | 317.8 | 11.2 | 0.221 |
| 4-3470 | 4-3870 | 0.468 | 233.5 | -9.4 | 4.16 | 1.165 | 113.8 | 0.510 | 1.499 | 283.9 | 543.2 | 0.734 | 2.264 | 5.07 | 0.467 | 86.7 | 315.2 | 10.3 | 0.231 |
| 4-3470 | 4-3890 | 0.491 | 235.1 | -9.2 | 4.68 | 1.167 | 115.0 | 0.525 | 1.505 | 281.4 | 546.5 | 0.715 | 2.296 | 5.00 | 0.462 | 82.9 | 314.1 | 9.3 | 0.246 |
| 4-3470 | 4-3910 | 0.518 | 236.7 | -9.1 | 5.18 | 1.168 | 116.4 | 0.543 | 1.514 | 278.6 | 549.5 | 0.692 | 2.336 | 4.98 | 0.458 | 79.1 | 314.2 | 8.5 | 0.264 |
| 4-3470 | 4-3930 | 0.548 | 238.4 | -9.3 | 5.68 | 1.170 | 118.0 | 0.563 | 1.524 | 275.5 | 552.0 | 0.686 | 2.383 | 5.02 | 0.455 | 75.4 | 315.3 | 7.8 | 0.283 |
| 4-3470 | 4-3950 | 0.583 | 240.1 | -9.6 | 6.17 | 1.172 | 119.9 | 0.586 | 1.537 | 272.0 | 554.1 | 0.636 | 2.438 | 5.10 | 0.452 | 71.7 | 317.3 | 7.2 | 0.305 |
| 4-3470 | 4-3970 | 0.621 | 242.0 | -10.0 | 6.68 | 1.175 | 121.9 | 0.612 | 1.550 | 268.3 | 555.8 | 0.602 | 2.499 | 5.23 | 0.451 | 67.9 | 319.9 | 6.7 | 0.328 |
| 4-3470 | 4-3990 | 0.663 | 243.9 | -10.5 | 7.21 | 1.177 | 124.2 | 0.640 | 1.565 | 264.3 | 557.1 | 0.564 | 2.565 | 5.41 | 0.449 | 64.1 | 323.1 | 6.2 | 0.352 |
| 4-3470 | 4-4010 | 0.710 | 246.0 | -11.1 | 7.78 | 1.180 | 126.7 | 0.669 | 1.580 | 260.0 | 558.1 | 0.523 | 2.638 | 5.65 | 0.449 | 60.3 | 326.8 | 5.8 | 0.377 |
| 4-3470 | 4-4030 | 0.760 | 248.1 | -11.7 | 8.39 | 1.183 | 129.5 | 0.700 | 1.597 | 255.4 | 558.7 | 0.478 | 2.715 | 5.97 | 0.449 | 56.3 | 330.8 | 5.5 | 0.403 |
| 4-3470 | 4-4050 | 0.814 | 250.3 | -12.4 | 9.07 | 1.186 | 132.4 | 0.733 | 1.614 | 250.6 | 559.0 | 0.431 | 2.798 | 6.38 | 0.449 | 52.2 | 335.2 | 5.2 | 0.431 |
| 4-3470 | 4-4070 | 0.873 | 252.7 | -13.1 | 9.84 | 1.189 | 135.7 | 0.767 | 1.632 | 245.4 | 558.8 | 0.381 | 2.884 | 6.87 | 0.450 | 47.9 | 339.9 | 5.0 | 0.459 |
| 4-3470 | 4-4090 | 0.935 | 255.1 | -13.8 | 10.74 | 1.192 | 139.2 | 0.801 | 1.651 | 240.0 | 558.3 | 0.329 | 2.974 | 7.51 | 0.452 | 43.6 | 344.9 | 4.8 | 0.489 |
| 4-3470 | 4-4110 | 1.002 | 257.7 | -14.5 | 11.81 | 1.194 | 142.9 | 0.835 | 1.671 | 234.3 | 557.5 | 0.276 | 3.066 | 8.34 | 0.454 | 39.1 | 350.1 | 4.6 | 0.520 |
| 4-3470 | 4-4130 | 1.071 | 260.4 | -15.2 | 13.14 | 1.197 | 146.9 | 0.868 | 1.691 | 228.3 | 556.3 | 0.223 | 3.159 | 9.44 | 0.457 | 34.4 | 355.5 | 4.4 | 0.552 |
| 4-3470 | 4-4150 | 1.144 | 263.2 | -15.8 | 14.85 | 1.201 | 151.1 | 0.899 | 1.712 | 222.0 | 554.7 | 0.172 | 3.252 | 10.94 | 0.460 | 29.7 | 1.1 | 4.2 | 0.585 |
| 4-3470 | 4-4170 | 1.219 | 266.1 | -16.5 | 17.20 | 1.204 | 155.6 | 0.928 | 1.734 | 215.5 | 552.9 | 0.125 | 3.343 | 13.06 | 0.464 | 24.8 | 7.0 | 4.1 | 0.618 |
| 4-3480 | 4-3680 | 0.636 | 229.1 | -50.6 | -16.70 | 1.271 | 115.4 | 0.687 | 2.424 | 295.8 | 486.2 | 0.759 | --- | 22.94 | 0.719 | 133.0 | 341.1 | 21.0 | 0.572 |
| 4-3480 | 4-3700 | 0.518 | 229.8 | -36.2 | -7.77 | 1.238 | 113.4 | 0.614 | 2.014 | 296.4 | 492.9 | 0.778 | --- | 14.24 | 0.657 | 127.7 | 344.8 | 16.2 | 0.458 |
| 4-3480 | 4-3720 | 0.462 | 231.2 | -28.0 | -3.67 | 1.215 | 111.8 | 0.562 | 1.806 | 296.8 | 499.7 | 0.791 | --- | 10.38 | 0.610 | 122.5 | 345.9 | 14.1 | 0.380 |
| 4-3480 | 4-3740 | 0.429 | 232.4 | -22.5 | -1.30 | 1.198 | 110.7 | 0.526 | 1.688 | 297.0 | 506.2 | 0.801 | --- | 8.24 | 0.574 | 117.4 | 345.5 | 13.1 | 0.321 |
| 4-3480 | 4-3760 | 0.410 | 233.5 | -18.5 | 0.27 | 1.187 | 110.0 | 0.501 | 1.616 | 297.0 | 512.6 | 0.806 | --- | 6.91 | 0.547 | 112.6 | 343.7 | 12.7 | 0.276 |
| 4-3480 | 4-3780 | 0.400 | 234.5 | -15.4 | 1.41 | 1.180 | 109.6 | 0.485 | 1.571 | 296.7 | 518.6 | 0.809 | --- | 6.02 | 0.526 | 107.9 | 340.4 | 12.5 | 0.243 |
| 4-3480 | 4-3800 | 0.397 | 235.6 | -13.1 | 2.29 | 1.175 | 109.5 | 0.477 | 1.544 | 296.1 | 524.1 | 0.808 | --- | 5.40 | 0.510 | 103.5 | 335.9 | 12.2 | 0.221 |
| 4-3480 | 4-3820 | 0.400 | 236.8 | -11.4 | 3.00 | 1.172 | 109.7 | 0.474 | 1.528 | 295.1 | 529.3 | 0.803 | --- | 4.95 | 0.497 | 99.4 | 330.9 | 11.7 | 0.209 |
| 4-3480 | 4-3840 | 0.408 | 238.0 | -10.2 | 3.61 | 1.171 | 110.1 | 0.477 | 1.521 | 293.8 | 534.0 | 0.796 | --- | 4.62 | 0.487 | 95.4 | 326.1 | 11.0 | 0.205 |
| 4-3480 | 4-3860 | 0.421 | 239.3 | -9.4 | 4.13 | 1.171 | 110.8 | 0.483 | 1.519 | 292.1 | 538.3 | 0.785 | --- | 4.38 | 0.479 | 91.6 | 322.1 | 10.1 | 0.209 |
| 4-3480 | 4-3880 | 0.437 | 240.7 | -9.0 | 4.61 | 1.171 | 111.6 | 0.493 | 1.522 | 290.0 | 542.1 | 0.772 | 2.271 | 4.21 | 0.473 | 87.9 | 319.4 | 9.2 | 0.218 |
| 4-3480 | 4-3900 | 0.458 | 242.2 | -8.8 | 5.04 | 1.172 | 112.7 | 0.506 | 1.527 | 287.6 | 545.5 | 0.755 | 2.300 | 4.10 | 0.468 | 84.4 | 318.1 | 8.3 | 0.230 |
| 4-3480 | 4-3920 | 0.481 | 243.8 | -8.8 | 5.45 | 1.174 | 113.9 | 0.521 | 1.536 | 284.9 | 548.5 | 0.735 | 2.336 | 4.03 | 0.464 | 80.9 | 318.0 | 7.5 | 0.246 |
| 4-3480 | 4-3940 | 0.509 | 245.4 | -9.1 | 5.85 | 1.176 | 115.4 | 0.539 | 1.546 | 282.0 | 551.2 | 0.712 | 2.380 | 4.01 | 0.461 | 77.5 | 318.8 | 6.9 | 0.264 |
| 4-3480 | 4-3960 | 0.539 | 247.1 | -9.4 | 6.23 | 1.178 | 117.0 | 0.560 | 1.558 | 278.7 | 553.4 | 0.686 | 2.430 | 4.02 | 0.458 | 74.1 | 320.6 | 6.3 | 0.283 |
| 4-3480 | 4-3980 | 0.573 | 248.9 | -9.9 | 6.62 | 1.180 | 118.9 | 0.582 | 1.571 | 275.2 | 555.3 | 0.656 | 2.486 | 4.07 | 0.456 | 70.6 | 323.0 | 5.8 | 0.303 |
| 4-3480 | 4-4000 | 0.610 | 250.7 | -10.4 | 7.01 | 1.182 | 120.9 | 0.607 | 1.585 | 271.5 | 556.9 | 0.623 | 2.547 | 4.16 | 0.455 | 67.2 | 325.9 | 5.4 | 0.324 |
| 4-3480 | 4-4020 | 0.651 | 252.7 | -11.1 | 7.42 | 1.185 | 123.1 | 0.633 | 1.600 | 267.4 | 558.1 | 0.586 | 2.613 | 4.29 | 0.454 | 63.7 | 329.3 | 5.0 | 0.346 |
| 4-3480 | 4-4040 | 0.695 | 254.7 | -11.7 | 7.85 | 1.187 | 125.5 | 0.662 | 1.616 | 263.2 | 559.0 | 0.547 | 2.685 | 4.46 | 0.453 | 60.1 | 333.1 | 4.7 | 0.369 |
| 4-3480 | 4-4060 | 0.743 | 256.8 | -12.4 | 8.31 | 1.190 | 128.1 | 0.691 | 1.632 | 258.7 | 559.6 | 0.504 | 2.761 | 4.67 | 0.454 | 56.4 | 337.2 | 4.5 | 0.394 |
| 4-3480 | 4-4080 | 0.795 | 259.0 | -13.0 | 8.81 | 1.193 | 131.0 | 0.722 | 1.650 | 253.9 | 559.8 | 0.458 | 2.841 | 4.95 | 0.454 | 52.6 | 341.6 | 4.3 | 0.419 |
| 4-3480 | 4-4100 | 0.850 | 261.3 | -13.7 | 9.38 | 1.195 | 134.0 | 0.754 | 1.667 | 248.9 | 559.8 | 0.409 | 2.925 | 5.30 | 0.456 | 48.7 | 346.3 | 4.1 | 0.445 |
| 4-3480 | 4-4120 | 0.909 | 263.7 | -14.4 | 10.02 | 1.198 | 137.3 | 0.787 | 1.686 | 243.6 | 559.3 | 0.359 | 3.013 | 5.75 | 0.457 | 44.6 | 351.2 | 3.9 | 0.473 |
| 4-3480 | 4-4140 | 0.971 | 266.2 | -15.0 | 10.78 | 1.201 | 140.9 | 0.820 | 1.705 | 238.1 | 558.6 | 0.307 | 3.103 | 6.31 | 0.460 | 40.4 | 356.3 | 3.7 | 0.501 |
| 4-3480 | 4-4160 | 1.037 | 268.8 | -15.6 | 11.70 | 1.204 | 144.6 | 0.852 | 1.725 | 232.3 | 557.5 | 0.255 | 3.194 | 7.05 | 0.462 | 36.1 | 1.6 | 3.6 | 0.531 |
| 4-3480 | 4-4180 | 1.107 | 271.5 | -16.2 | 12.86 | 1.207 | 148.7 | 0.883 | 1.745 | 226.2 | 556.1 | 0.203 | 3.287 | 8.02 | 0.466 | 31.7 | 7.1 | 3.5 | 0.562 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3480 | 4-4200 | 1.179 | 274.4 | -16.7 | 14.38 | 1.209 | 152.9 | 0.913 | 1.766 | 219.9 | 554.4 | 0.154 | 3.378 | 9.37 | 0.470 | 27.1 | 12.8 | 3.4 | 0.594 |
| 4-3480 | 4-4220 | 1.253 | 277.3 | -17.2 | 16.51 | 1.212 | 157.3 | 0.939 | 1.788 | 213.3 | 552.4 | 0.109 | 3.468 | 11.33 | 0.474 | 22.4 | 18.7 | 3.2 | 0.627 |
| 4-3490 | 4-3710 | 0.508 | 236.5 | -46.2 | -10.95 | 1.241 | 111.2 | 0.602 | 2.035 | 301.9 | 491.5 | 0.810 | --- | 17.69 | 0.860 | 126.9 | 347.5 | 20.4 | 0.461 |
| 4-3490 | 4-3730 | 0.431 | 238.1 | -30.5 | -3.77 | 1.218 | 109.7 | 0.550 | 1.828 | 302.5 | 498.4 | 0.823 | --- | 10.68 | 0.814 | 121.8 | 349.6 | 15.1 | 0.372 |
| 4-3490 | 4-3750 | 0.399 | 239.5 | -22.3 | -0.63 | 1.203 | 108.7 | 0.514 | 1.710 | 302.8 | 505.0 | 0.831 | --- | 7.71 | 0.579 | 117.0 | 349.4 | 12.9 | 0.311 |
| 4-3490 | 4-3770 | 0.381 | 240.7 | -17.2 | 1.15 | 1.192 | 108.0 | 0.489 | 1.638 | 302.9 | 511.4 | 0.837 | --- | 6.10 | 0.552 | 112.3 | 347.6 | 11.8 | 0.267 |
| 4-3490 | 4-3790 | 0.373 | 241.7 | -13.7 | 2.32 | 1.185 | 107.6 | 0.473 | 1.593 | 302.7 | 517.5 | 0.839 | --- | 5.10 | 0.532 | 107.9 | 344.4 | 11.1 | 0.234 |
| 4-3490 | 4-3810 | 0.371 | 242.8 | -11.3 | 3.16 | 1.180 | 107.5 | 0.465 | 1.566 | 302.1 | 529.1 | 0.838 | --- | 4.44 | 0.516 | 103.7 | 340.0 | 10.5 | 0.212 |
| 4-3490 | 4-3830 | 0.374 | 243.9 | -9.6 | 3.81 | 1.178 | 107.7 | 0.462 | 1.550 | 301.2 | 528.3 | 0.834 | --- | 3.97 | 0.503 | 99.7 | 335.1 | 9.9 | 0.199 |
| 4-3490 | 4-3850 | 0.382 | 245.0 | -8.5 | 4.33 | 1.176 | 108.1 | 0.463 | 1.543 | 299.9 | 533.0 | 0.828 | --- | 3.64 | 0.493 | 96.0 | 330.2 | 9.2 | 0.195 |
| 4-3490 | 4-3870 | 0.393 | 246.3 | -7.9 | 4.77 | 1.176 | 108.7 | 0.469 | 1.541 | 298.2 | 537.3 | 0.819 | --- | 3.39 | 0.485 | 92.4 | 326.2 | 8.3 | 0.198 |
| 4-3490 | 4-3890 | 0.408 | 247.7 | -7.6 | 5.15 | 1.176 | 109.5 | 0.477 | 1.543 | 296.2 | 541.1 | 0.807 | 2.280 | 3.21 | 0.479 | 89.0 | 323.4 | 7.5 | 0.205 |
| 4-3490 | 4-3910 | 0.426 | 249.1 | -7.6 | 5.49 | 1.177 | 110.4 | 0.488 | 1.549 | 293.9 | 544.6 | 0.792 | 2.306 | 3.08 | 0.474 | 85.6 | 321.9 | 6.7 | 0.217 |
| 4-3490 | 4-3930 | 0.448 | 250.7 | -7.8 | 5.81 | 1.179 | 111.6 | 0.502 | 1.557 | 291.4 | 547.7 | 0.775 | 2.339 | 2.99 | 0.470 | 82.4 | 321.6 | 6.1 | 0.230 |
| 4-3490 | 4-3950 | 0.472 | 252.3 | -8.2 | 6.10 | 1.180 | 112.9 | 0.518 | 1.567 | 288.5 | 550.4 | 0.755 | 2.379 | 2.94 | 0.466 | 79.2 | 322.3 | 5.5 | 0.246 |
| 4-3490 | 4-3970 | 0.499 | 253.9 | -8.7 | 6.38 | 1.182 | 114.3 | 0.536 | 1.579 | 285.4 | 552.7 | 0.732 | 2.425 | 2.91 | 0.463 | 76.1 | 323.9 | 5.0 | 0.263 |
| 4-3490 | 4-3990 | 0.529 | 255.7 | -9.2 | 6.65 | 1.185 | 116.0 | 0.556 | 1.591 | 282.1 | 554.8 | 0.706 | 2.477 | 2.91 | 0.461 | 72.9 | 326.1 | 4.6 | 0.281 |
| 4-3490 | 4-4010 | 0.562 | 257.5 | -9.9 | 6.92 | 1.187 | 117.8 | 0.578 | 1.605 | 278.5 | 558.5 | 0.677 | 2.533 | 2.94 | 0.460 | 69.8 | 328.8 | 4.2 | 0.300 |
| 4-3490 | 4-4030 | 0.598 | 259.3 | -10.5 | 7.20 | 1.189 | 119.7 | 0.602 | 1.620 | 274.8 | 558.0 | 0.645 | 2.594 | 2.99 | 0.459 | 66.6 | 332.0 | 3.9 | 0.320 |
| 4-3490 | 4-4050 | 0.637 | 261.3 | -11.2 | 7.48 | 1.192 | 121.9 | 0.627 | 1.635 | 270.8 | 559.1 | 0.610 | 2.660 | 3.06 | 0.458 | 63.3 | 335.6 | 3.7 | 0.340 |
| 4-3490 | 4-4070 | 0.679 | 263.3 | -11.9 | 7.77 | 1.194 | 124.2 | 0.653 | 1.651 | 266.6 | 559.9 | 0.572 | 2.730 | 3.17 | 0.458 | 60.0 | 339.4 | 3.5 | 0.361 |
| 4-3490 | 4-4090 | 0.724 | 265.4 | -12.6 | 8.08 | 1.197 | 126.7 | 0.682 | 1.668 | 262.2 | 560.5 | 0.531 | 2.804 | 3.30 | 0.458 | 56.6 | 343.6 | 3.3 | 0.383 |
| 4-3490 | 4-4110 | 0.773 | 267.5 | -13.3 | 8.42 | 1.199 | 129.4 | 0.711 | 1.685 | 257.5 | 560.8 | 0.487 | 2.882 | 3.48 | 0.459 | 53.1 | 348.0 | 3.1 | 0.407 |
| 4-3490 | 4-4130 | 0.825 | 269.8 | -13.9 | 8.80 | 1.202 | 132.3 | 0.741 | 1.702 | 252.6 | 560.7 | 0.440 | 2.964 | 3.70 | 0.461 | 49.5 | 352.6 | 3.0 | 0.431 |
| 4-3490 | 4-4150 | 0.880 | 272.2 | -14.6 | 9.22 | 1.204 | 135.4 | 0.772 | 1.720 | 247.5 | 560.4 | 0.391 | 3.049 | 3.97 | 0.463 | 45.7 | 357.4 | 2.9 | 0.456 |
| 4-3490 | 4-4170 | 0.939 | 274.6 | -15.2 | 9.71 | 1.207 | 138.7 | 0.804 | 1.739 | 242.1 | 559.8 | 0.341 | 3.138 | 4.32 | 0.465 | 41.8 | 2.4 | 2.8 | 0.483 |
| 4-3490 | 4-4190 | 1.002 | 277.2 | -15.7 | 10.29 | 1.209 | 142.3 | 0.836 | 1.758 | 236.5 | 558.8 | 0.289 | 3.226 | 4.76 | 0.468 | 37.8 | 7.6 | 2.7 | 0.511 |
| 4-3490 | 4-4210 | 1.067 | 279.9 | -16.2 | 11.00 | 1.212 | 146.1 | 0.866 | 1.777 | 230.6 | 557.6 | 0.237 | 3.317 | 5.34 | 0.472 | 33.8 | 13.0 | 2.6 | 0.540 |
| 4-3490 | 4-4230 | 1.136 | 282.6 | -16.6 | 11.90 | 1.215 | 150.1 | 0.896 | 1.797 | 224.4 | 556.0 | 0.187 | 3.408 | 6.12 | 0.476 | 29.3 | 18.6 | 2.5 | 0.571 |
| 4-3490 | 4-4250 | 1.208 | 285.5 | -17.0 | 13.12 | 1.217 | 154.4 | 0.923 | 1.818 | 218.0 | 554.2 | 0.139 | 3.497 | 7.21 | 0.481 | 24.9 | 24.4 | 2.4 | 0.603 |
| 4-3490 | 4-4270 | 1.282 | 288.5 | -17.3 | 14.86 | 1.220 | 158.9 | 0.948 | 1.840 | 211.3 | 552.0 | 0.096 | 3.584 | 8.84 | 0.486 | 20.3 | 30.3 | 2.3 | 0.636 |
| 4-3500 | 4-3680 | 0.626 | 255.8 | 9.6 | 15.93 | 1.320 | 112.7 | 0.762 | 3.422 | 306.8 | 478.0 | 0.813 | --- | -9.16 | 0.798 | 135.8 | 350.3 | -8.6 | 0.595 |
| 4-3500 | 4-3700 | 0.730 | 267.8 | 29.3 | 29.12 | 1.274 | 110.4 | 0.660 | 2.443 | 307.8 | 483.1 | 0.831 | --- | -22.26 | 0.720 | 130.8 | 348.5 | -22.3 | 0.543 |
| 4-3500 | 4-3720 | 0.711 | 270.3 | -79.1 | -29.98 | 1.243 | 109.0 | 0.590 | 2.049 | 307.5 | 498.3 | 0.841 | --- | 36.94 | 0.661 | 126.0 | 342.0 | 34.7 | 0.565 |
| 4-3500 | 4-3740 | 0.401 | 244.6 | -33.6 | -4.12 | 1.221 | 107.5 | 0.538 | 1.846 | 308.4 | 497.3 | 0.853 | --- | 11.17 | 0.617 | 121.1 | 353.0 | 16.4 | 0.363 |
| 4-3500 | 4-3760 | 0.368 | 246.5 | -19.8 | 0.60 | 1.206 | 106.6 | 0.502 | 1.729 | 308.9 | 504.1 | 0.861 | --- | 6.55 | 0.583 | 116.4 | 353.2 | 11.5 | 0.299 |
| 4-3500 | 4-3780 | 0.354 | 247.7 | -13.4 | 2.56 | 1.196 | 105.9 | 0.478 | 1.658 | 309.0 | 510.5 | 0.866 | --- | 4.68 | 0.557 | 111.9 | 351.4 | 9.5 | 0.255 |
| 4-3500 | 4-3800 | 0.348 | 248.7 | -9.8 | 3.66 | 1.189 | 105.6 | 0.462 | 1.614 | 308.9 | 518.6 | 0.868 | --- | 3.69 | 0.537 | 107.7 | 348.2 | 8.4 | 0.224 |
| 4-3500 | 4-3820 | 0.347 | 249.6 | -7.5 | 4.37 | 1.185 | 105.5 | 0.454 | 1.587 | 308.3 | 522.2 | 0.867 | --- | 3.08 | 0.521 | 103.7 | 343.8 | 7.7 | 0.202 |
| 4-3500 | 4-3840 | 0.351 | 250.7 | -6.1 | 4.88 | 1.182 | 105.7 | 0.450 | 1.571 | 307.4 | 527.4 | 0.864 | --- | 2.67 | 0.509 | 100.0 | 338.9 | 7.0 | 0.190 |
| 4-3500 | 4-3860 | 0.358 | 251.8 | -5.3 | 5.27 | 1.181 | 106.1 | 0.451 | 1.564 | 306.2 | 532.1 | 0.858 | --- | 2.39 | 0.499 | 96.4 | 334.0 | 6.4 | 0.186 |
| 4-3500 | 4-3880 | 0.368 | 253.0 | -5.0 | 5.58 | 1.180 | 106.6 | 0.456 | 1.562 | 304.3 | 536.4 | 0.850 | --- | 2.18 | 0.491 | 93.0 | 330.0 | 5.7 | 0.188 |
| 4-3500 | 4-3900 | 0.381 | 254.3 | -5.1 | 5.84 | 1.181 | 107.3 | 0.463 | 1.564 | 302.6 | 540.3 | 0.840 | 2.289 | 2.03 | 0.484 | 89.8 | 327.2 | 5.1 | 0.194 |
| 4-3500 | 4-3920 | 0.398 | 255.7 | -5.4 | 6.06 | 1.182 | 108.2 | 0.473 | 1.570 | 300.4 | 543.7 | 0.827 | 2.313 | 1.92 | 0.479 | 86.7 | 325.6 | 4.5 | 0.204 |
| 4-3500 | 4-3940 | 0.416 | 257.2 | -5.8 | 6.26 | 1.183 | 109.3 | 0.485 | 1.578 | 297.9 | 546.9 | 0.813 | 2.344 | 1.84 | 0.475 | 83.6 | 325.1 | 4.0 | 0.217 |
| 4-3500 | 4-3960 | 0.438 | 258.8 | -6.5 | 6.45 | 1.185 | 110.5 | 0.499 | 1.588 | 295.1 | 549.6 | 0.795 | 2.381 | 1.78 | 0.471 | 80.7 | 325.7 | 3.6 | 0.231 |
| 4-3500 | 4-3980 | 0.462 | 260.5 | -7.2 | 6.62 | 1.187 | 111.8 | 0.515 | 1.600 | 292.2 | 552.1 | 0.775 | 2.424 | 1.74 | 0.468 | 77.7 | 327.1 | 3.2 | 0.246 |
| 4-3500 | 4-4000 | 0.488 | 262.2 | -7.9 | 6.78 | 1.189 | 113.3 | 0.533 | 1.612 | 289.0 | 554.2 | 0.753 | 2.471 | 1.72 | 0.466 | 74.8 | 329.1 | 3.0 | 0.262 |
| 4-3500 | 4-4020 | 0.517 | 264.0 | -8.7 | 6.94 | 1.191 | 114.9 | 0.552 | 1.626 | 285.6 | 556.1 | 0.728 | 2.523 | 1.71 | 0.464 | 71.9 | 331.7 | 2.7 | 0.279 |
| 4-3500 | 4-4040 | 0.549 | 265.8 | -9.5 | 7.09 | 1.193 | 116.6 | 0.573 | 1.640 | 282.0 | 557.7 | 0.700 | 2.580 | 1.72 | 0.463 | 69.0 | 334.7 | 2.5 | 0.296 |
| 4-3500 | 4-4060 | 0.583 | 267.8 | -10.3 | 7.25 | 1.195 | 118.5 | 0.596 | 1.655 | 278.3 | 559.0 | 0.669 | 2.640 | 1.75 | 0.463 | 66.1 | 338.1 | 2.3 | 0.314 |
| 4-3500 | 4-4080 | 0.620 | 269.7 | -11.1 | 7.41 | 1.198 | 120.5 | 0.619 | 1.670 | 274.3 | 560.1 | 0.636 | 2.705 | 1.78 | 0.462 | 63.1 | 341.8 | 2.2 | 0.333 |
| 4-3500 | 4-4100 | 0.660 | 271.7 | -11.8 | 7.57 | 1.200 | 122.8 | 0.645 | 1.686 | 270.2 | 560.9 | 0.599 | 2.773 | 1.83 | 0.463 | 60.0 | 345.7 | 2.1 | 0.353 |
| 4-3500 | 4-4120 | 0.702 | 273.8 | -12.5 | 7.75 | 1.202 | 125.1 | 0.671 | 1.702 | 265.8 | 561.4 | 0.560 | 2.845 | 1.90 | 0.464 | 56.8 | 349.9 | 2.0 | 0.373 |
| 4-3500 | 4-4140 | 0.748 | 276.0 | -13.2 | 7.93 | 1.205 | 127.7 | 0.699 | 1.719 | 261.3 | 561.7 | 0.518 | 2.920 | 1.99 | 0.465 | 53.6 | 354.3 | 1.9 | 0.394 |
| 4-3500 | 4-4160 | 0.797 | 278.2 | -13.8 | 8.13 | 1.207 | 130.4 | 0.727 | 1.736 | 256.6 | 561.8 | 0.473 | 2.999 | 2.10 | 0.467 | 50.3 | 358.8 | 1.8 | 0.417 |
| 4-3500 | 4-4180 | 0.849 | 280.6 | -14.4 | 8.36 | 1.210 | 133.3 | 0.757 | 1.754 | 251.8 | 561.5 | 0.426 | 3.082 | 2.24 | 0.469 | 46.8 | 3.6 | 1.7 | 0.440 |
| 4-3500 | 4-4200 | 0.905 | 283.0 | -14.9 | 8.62 | 1.212 | 136.5 | 0.787 | 1.772 | 246.4 | 561.0 | 0.377 | 3.167 | 2.41 | 0.472 | 43.2 | 8.5 | 1.7 | 0.465 |
| 4-3500 | 4-4220 | 0.964 | 285.5 | -15.4 | 8.92 | 1.214 | 139.9 | 0.818 | 1.790 | 240.9 | 560.2 | 0.326 | 3.254 | 2.63 | 0.475 | 39.5 | 13.6 | 1.6 | 0.491 |
| 4-3500 | 4-4240 | 1.027 | 288.1 | -15.8 | 9.27 | 1.217 | 143.5 | 0.848 | 1.809 | 235.2 | 559.1 | 0.275 | 3.344 | 2.91 | 0.479 | 35.6 | 18.9 | 1.6 | 0.519 |
| 4-3500 | 4-4260 | 1.092 | 290.8 | -16.2 | 9.72 | 1.219 | 147.3 | 0.878 | 1.829 | 229.2 | 557.7 | 0.223 | 3.434 | 3.28 | 0.483 | 31.5 | 24.4 | 1.5 | 0.548 |
| 4-3500 | 4-4280 | 1.161 | 293.7 | -16.4 | 10.30 | 1.222 | 151.4 | 0.906 | 1.848 | 222.9 | 556.0 | 0.174 | 3.523 | 3.78 | 0.488 | 27.3 | 30.1 | 1.5 | 0.579 |
| 4-3500 | 4-4300 | 1.233 | 296.6 | -16.6 | 11.09 | 1.224 | 155.7 | 0.932 | 1.869 | 216.3 | 553.9 | 0.127 | 3.611 | 4.50 | 0.493 | 23.0 | 35.9 | 1.4 | 0.612 |
| 4-3510 | 4-3670 | 0.612 | 256.4 | -5.6 | 8.16 | 1.380 | 112.7 | 0.893 | 7.745 | 311.8 | 467.7 | 0.828 | --- | -1.14 | 0.895 | 139.4 | 352.1 | -1.0 | 0.689 |
| 4-3510 | 4-3690 | 0.531 | 256.9 | -2.5 | 8.59 | 1.317 | 110.1 | 0.747 | 3.344 | 312.4 | 474.8 | 0.846 | --- | -1.54 | 0.793 | 134.6 | 354.5 | -1.5 | 0.567 |
| 4-3510 | 4-3710 | 0.477 | 257.6 | 1.9 | 9.50 | 1.274 | 108.1 | 0.646 | 2.432 | 313.2 | 482.1 | 0.862 | --- | -2.43 | 0.718 | 129.8 | 356.4 | -2.8 | 0.471 |
| 4-3510 | 4-3730 | 0.465 | 259.9 | 11.9 | 12.87 | 1.244 | 106.5 | 0.575 | 2.054 | 314.0 | 489.4 | 0.874 | --- | -5.78 | 0.861 | 125.0 | 357.2 | -7.9 | 0.398 |
| 4-3510 | 4-3750 | 0.387 | 250.2 | -45.5 | -7.37 | 1.223 | 105.3 | 0.525 | 1.858 | 314.7 | 496.5 | 0.883 | --- | 14.50 | 0.818 | 120.3 | 355.4 | 21.5 | 0.365 |
| 4-3510 | 4-3770 | 0.345 | 253.9 | -9.3 | 3.87 | 1.209 | 104.4 | 0.490 | 1.744 | 315.2 | 503.4 | 0.889 | --- | 3.28 | 0.585 | 115.7 | 356.8 | 6.1 | 0.283 |
| 4-3510 | 4-3790 | 0.337 | 254.9 | -4.0 | 5.31 | 1.199 | 103.8 | 0.467 | 1.675 | 315.4 | 509.9 | 0.893 | --- | 1.87 | 0.560 | 111.4 | 354.8 | 4.0 | 0.243 |
| 4-3510 | 4-3810 | 0.332 | 255.5 | -1.7 | 5.88 | 1.192 | 103.5 | 0.452 | 1.632 | 315.3 | 516.0 | 0.895 | --- | 1.32 | 0.540 | 107.4 | 351.5 | 3.2 | 0.213 |
| 4-3510 | 4-3830 | 0.331 | 256.2 | -0.6 | 6.19 | 1.188 | 103.5 | 0.443 | 1.606 | 314.8 | 521.6 | 0.894 | --- | 1.03 | 0.525 | 103.6 | 347.1 | 2.7 | 0.193 |
| 4-3510 | 4-3850 | 0.333 | 257.0 | -0.1 | 6.40 | 1.185 | 103.6 | 0.440 | 1.591 | 313.9 | 526.7 | 0.891 | --- | 0.88 | 0.513 | 100.0 | 342.2 | 2.4 | 0.182 |
| 4-3510 | 4-3870 | 0.338 | 258.0 | -0.2 | 6.54 | 1.184 | 104.0 | 0.440 | 1.583 | 312.4 | 531.4 | 0.886 | --- | 0.74 | 0.503 | 96.6 | 337.5 | 2.1 | 0.178 |
| 4-3510 | 4-3890 | 0.347 | 259.1 | -0.5 | 6.65 | 1.184 | 104.5 | 0.444 | 1.582 | 311.1 | 535.7 | 0.880 | --- | 0.68 | 0.495 | 93.4 | 333.5 | 1.8 | 0.179 |
| 4-3510 | 4-3910 | 0.358 | 260.4 | -1.1 | 6.73 | 1.184 | 105.2 | 0.451 | 1.585 | 309.2 | 539.6 | 0.871 | --- | 0.60 | 0.489 | 90.4 | 330.6 | 1.6 | 0.185 |
| 4-3510 | 4-3930 | 0.372 | 261.8 | -1.9 | 6.80 | 1.185 | 106.0 | 0.459 | 1.590 | 307.0 | 543.0 | 0.860 | 2.321 | 0.56 | 0.484 | 87.4 | 329.0 | 1.4 | 0.194 |
| 4-3510 | 4-3950 | 0.388 | 263.4 | -2.8 | 6.87 | 1.187 | 107.0 | 0.470 | 1.599 | 304.5 | 546.1 | 0.847 | 2.350 | 0.53 | 0.479 | 84.6 | 328.5 | 1.2 | 0.205 |
| 4-3510 | 4-3970 | 0.407 | 265.0 | -3.8 | 6.92 | 1.188 | 108.1 | 0.483 | 1.608 | 301.8 | 548.9 | 0.832 | 2.385 | 0.51 | 0.476 | 81.8 | 329.0 | 1.1 | 0.218 |
| 4-3510 | 4-3990 | 0.427 | 266.7 | -4.8 | 6.97 | 1.190 | 109.3 | 0.497 | 1.620 | 299.0 | 551.4 | 0.815 | 2.425 | 0.49 | 0.473 | 79.1 | 330.3 | 1.0 | 0.232 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3510 | 4-4010 | 0.451 | 268.4 | -5.8 | 7.02 | 1.192 | 110.6 | 0.513 | 1.632 | 295.9 | 553.7 | 0.796 | 2.469 | 0.48 | 0.471 | 76.4 | 332.2 | 0.9 | 0.246 |
| 4-3510 | 4-4030 | 0.476 | 270.2 | -6.8 | 7.06 | 1.194 | 112.1 | 0.530 | 1.646 | 292.7 | 555.6 | 0.774 | 2.517 | 0.47 | 0.469 | 73.8 | 334.6 | 0.8 | 0.261 |
| 4-3510 | 4-4050 | 0.504 | 272.1 | -7.8 | 7.10 | 1.196 | 113.7 | 0.548 | 1.660 | 289.2 | 557.4 | 0.750 | 2.569 | 0.47 | 0.468 | 71.1 | 337.5 | 0.7 | 0.276 |
| 4-3510 | 4-4070 | 0.534 | 274.0 | -8.8 | 7.14 | 1.199 | 115.4 | 0.568 | 1.674 | 285.7 | 558.8 | 0.723 | 2.625 | 0.47 | 0.467 | 68.4 | 340.7 | 0.7 | 0.292 |
| 4-3510 | 4-4090 | 0.566 | 275.9 | -9.7 | 7.18 | 1.201 | 117.2 | 0.589 | 1.689 | 281.9 | 560.1 | 0.694 | 2.685 | 0.47 | 0.467 | 65.6 | 344.2 | 0.6 | 0.309 |
| 4-3510 | 4-4110 | 0.601 | 278.0 | -10.5 | 7.22 | 1.203 | 119.2 | 0.612 | 1.705 | 278.0 | 561.1 | 0.662 | 2.747 | 0.48 | 0.467 | 62.9 | 348.0 | 0.6 | 0.326 |
| 4-3510 | 4-4130 | 0.638 | 280.0 | -11.3 | 7.27 | 1.205 | 121.3 | 0.635 | 1.721 | 274.0 | 561.9 | 0.628 | 2.814 | 0.49 | 0.468 | 60.0 | 352.0 | 0.6 | 0.344 |
| 4-3510 | 4-4150 | 0.679 | 282.1 | -12.1 | 7.31 | 1.208 | 123.5 | 0.660 | 1.737 | 269.7 | 562.4 | 0.591 | 2.883 | 0.50 | 0.469 | 57.1 | 356.1 | 0.5 | 0.363 |
| 4-3510 | 4-4170 | 0.722 | 284.3 | -12.7 | 7.36 | 1.210 | 125.9 | 0.686 | 1.753 | 265.3 | 562.8 | 0.550 | 2.956 | 0.53 | 0.471 | 54.1 | 0.5 | 0.5 | 0.382 |
| 4-3510 | 4-4190 | 0.768 | 286.5 | -13.3 | 7.41 | 1.212 | 128.5 | 0.713 | 1.770 | 260.7 | 562.9 | 0.508 | 3.033 | 0.55 | 0.473 | 51.1 | 5.0 | 0.5 | 0.403 |
| 4-3510 | 4-4210 | 0.817 | 288.8 | -13.9 | 7.47 | 1.214 | 131.3 | 0.741 | 1.787 | 255.9 | 562.7 | 0.463 | 3.112 | 0.58 | 0.475 | 47.9 | 9.7 | 0.5 | 0.425 |
| 4-3510 | 4-4230 | 0.869 | 291.2 | -14.4 | 7.53 | 1.217 | 134.2 | 0.770 | 1.805 | 250.8 | 562.3 | 0.415 | 3.194 | 0.62 | 0.478 | 44.5 | 14.6 | 0.5 | 0.448 |
| 4-3510 | 4-4250 | 0.925 | 293.7 | -14.8 | 7.60 | 1.219 | 137.4 | 0.799 | 1.823 | 245.5 | 561.6 | 0.365 | 3.280 | 0.67 | 0.482 | 41.1 | 19.6 | 0.4 | 0.473 |
| 4-3510 | 4-4270 | 0.984 | 296.3 | -15.1 | 7.69 | 1.221 | 140.8 | 0.829 | 1.841 | 240.0 | 560.7 | 0.315 | 3.367 | 0.74 | 0.486 | 37.5 | 24.8 | 0.4 | 0.499 |
| 4-3510 | 4-4290 | 1.047 | 298.9 | -15.4 | 7.79 | 1.223 | 144.5 | 0.859 | 1.859 | 234.1 | 559.4 | 0.263 | 3.456 | 0.82 | 0.490 | 33.7 | 30.2 | 0.4 | 0.527 |
| 4-3510 | 4-4310 | 1.113 | 301.7 | -15.6 | 7.92 | 1.225 | 148.4 | 0.887 | 1.878 | 228.0 | 557.8 | 0.212 | 3.545 | 0.93 | 0.495 | 29.8 | 35.8 | 0.4 | 0.557 |
| 4-3520 | 4-3680 | 0.554 | 260.8 | -9.6 | 5.76 | 1.373 | 109.7 | 0.873 | 6.783 | 317.5 | 466.6 | 0.863 | --- | 1.55 | 0.884 | 138.1 | 355.7 | 1.4 | 0.663 |
| 4-3520 | 4-3700 | 0.472 | 260.6 | -8.9 | 5.33 | 1.313 | 107.4 | 0.728 | 3.236 | 318.4 | 473.9 | 0.879 | --- | 1.93 | 0.787 | 133.4 | 358.0 | 2.0 | 0.546 |
| 4-3520 | 4-3720 | 0.411 | 260.0 | -9.2 | 4.63 | 1.272 | 105.5 | 0.629 | 2.405 | 319.4 | 481.4 | 0.892 | --- | 2.59 | 0.714 | 128.6 | 359.7 | 3.2 | 0.453 |
| 4-3520 | 4-3740 | 0.363 | 258.9 | -12.4 | 3.18 | 1.243 | 104.0 | 0.560 | 2.051 | 320.4 | 488.8 | 0.902 | --- | 3.99 | 0.659 | 123.9 | 0.6 | 5.7 | 0.380 |
| 4-3520 | 4-3760 | 0.329 | 256.5 | -29.2 | -1.73 | 1.224 | 102.9 | 0.512 | 1.864 | 321.3 | 496.1 | 0.910 | --- | 8.86 | 0.618 | 119.3 | 359.9 | 14.5 | 0.331 |
| 4-3520 | 4-3780 | 0.823 | 292.7 | 49.9 | 40.76 | 1.210 | 102.2 | 0.479 | 1.755 | 321.6 | 503.0 | 0.915 | --- | -33.68 | 0.586 | 115.0 | 347.8 | -41.5 | 0.444 |
| 4-3520 | 4-3800 | 0.385 | 264.7 | 20.8 | 13.16 | 1.201 | 101.7 | 0.456 | 1.688 | 322.1 | 509.6 | 0.918 | --- | -6.13 | 0.582 | 110.9 | 357.2 | -13.4 | 0.242 |
| 4-3520 | 4-3820 | 0.346 | 262.8 | 14.3 | 10.37 | 1.194 | 101.4 | 0.442 | 1.647 | 322.0 | 515.6 | 0.920 | --- | -3.38 | 0.543 | 107.0 | 354.2 | -8.5 | 0.208 |
| 4-3520 | 4-3840 | 0.332 | 262.5 | 11.4 | 9.31 | 1.190 | 101.4 | 0.434 | 1.622 | 321.5 | 521.2 | 0.919 | --- | -2.36 | 0.528 | 103.3 | 349.9 | -6.5 | 0.188 |
| 4-3520 | 4-3860 | 0.328 | 262.9 | 9.5 | 8.74 | 1.188 | 101.6 | 0.430 | 1.608 | 320.6 | 526.3 | 0.916 | --- | -1.84 | 0.516 | 99.9 | 345.1 | -5.3 | 0.176 |
| 4-3520 | 4-3880 | 0.328 | 263.6 | 7.8 | 8.38 | 1.187 | 101.9 | 0.431 | 1.602 | 319.4 | 531.0 | 0.912 | --- | -1.52 | 0.507 | 96.7 | 340.4 | -4.5 | 0.172 |
| 4-3520 | 4-3900 | 0.333 | 264.6 | 6.2 | 8.13 | 1.187 | 102.4 | 0.434 | 1.601 | 317.8 | 535.2 | 0.906 | --- | -1.31 | 0.499 | 93.7 | 336.5 | -3.8 | 0.173 |
| 4-3520 | 4-3920 | 0.340 | 265.8 | 4.6 | 7.94 | 1.187 | 103.1 | 0.440 | 1.604 | 315.9 | 539.0 | 0.899 | --- | -1.17 | 0.493 | 90.8 | 333.8 | -3.2 | 0.178 |
| 4-3520 | 4-3940 | 0.351 | 267.3 | 3.0 | 7.79 | 1.188 | 103.9 | 0.447 | 1.610 | 313.7 | 542.5 | 0.890 | 2.330 | -1.06 | 0.488 | 88.0 | 332.2 | -2.8 | 0.186 |
| 4-3520 | 4-3960 | 0.364 | 268.8 | 1.5 | 7.66 | 1.190 | 104.8 | 0.457 | 1.618 | 311.3 | 545.6 | 0.879 | 2.357 | -0.98 | 0.483 | 85.3 | 331.7 | -2.4 | 0.196 |
| 4-3520 | 4-3980 | 0.379 | 270.5 | -0.0 | 7.55 | 1.191 | 105.8 | 0.468 | 1.628 | 308.7 | 548.4 | 0.866 | 2.390 | -0.92 | 0.480 | 82.8 | 332.1 | -2.1 | 0.207 |
| 4-3520 | 4-4000 | 0.397 | 272.3 | -1.5 | 7.46 | 1.193 | 106.9 | 0.481 | 1.640 | 305.9 | 550.9 | 0.851 | 2.428 | -0.88 | 0.477 | 80.2 | 333.3 | -1.9 | 0.220 |
| 4-3520 | 4-4020 | 0.416 | 274.1 | -2.9 | 7.37 | 1.195 | 108.1 | 0.495 | 1.652 | 302.9 | 553.2 | 0.835 | 2.469 | -0.85 | 0.475 | 77.7 | 335.1 | -1.7 | 0.232 |
| 4-3520 | 4-4040 | 0.438 | 276.0 | -4.2 | 7.29 | 1.197 | 109.5 | 0.510 | 1.665 | 299.8 | 555.2 | 0.816 | 2.514 | -0.82 | 0.473 | 75.3 | 337.5 | -1.5 | 0.246 |
| 4-3520 | 4-4060 | 0.462 | 277.9 | -5.5 | 7.22 | 1.199 | 110.9 | 0.526 | 1.679 | 296.5 | 557.0 | 0.796 | 2.563 | -0.81 | 0.472 | 72.8 | 340.2 | -1.4 | 0.260 |
| 4-3520 | 4-4080 | 0.488 | 279.9 | -6.7 | 7.15 | 1.201 | 112.4 | 0.544 | 1.694 | 293.1 | 558.6 | 0.773 | 2.614 | -0.80 | 0.471 | 70.3 | 343.3 | -1.3 | 0.274 |
| 4-3520 | 4-4100 | 0.517 | 281.9 | -7.7 | 7.08 | 1.203 | 114.1 | 0.562 | 1.708 | 289.5 | 560.0 | 0.748 | 2.669 | -0.80 | 0.471 | 67.8 | 346.7 | -1.2 | 0.288 |
| 4-3520 | 4-4120 | 0.547 | 283.9 | -8.8 | 7.01 | 1.206 | 115.8 | 0.582 | 1.724 | 285.8 | 561.2 | 0.720 | 2.727 | -0.80 | 0.471 | 65.3 | 350.3 | -1.1 | 0.303 |
| 4-3520 | 4-4140 | 0.580 | 286.0 | -9.7 | 6.94 | 1.208 | 117.7 | 0.603 | 1.739 | 281.9 | 562.2 | 0.690 | 2.788 | -0.81 | 0.472 | 62.7 | 354.1 | -1.1 | 0.319 |
| 4-3520 | 4-4160 | 0.615 | 288.1 | -10.5 | 6.87 | 1.210 | 119.7 | 0.625 | 1.755 | 277.9 | 562.9 | 0.657 | 2.852 | -0.83 | 0.473 | 60.1 | 358.2 | -1.0 | 0.336 |
| 4-3520 | 4-4180 | 0.653 | 290.2 | -11.3 | 6.80 | 1.212 | 121.8 | 0.649 | 1.771 | 273.8 | 563.5 | 0.622 | 2.919 | -0.85 | 0.475 | 57.4 | 2.3 | -1.0 | 0.353 |
| 4-3520 | 4-4200 | 0.694 | 292.4 | -12.0 | 6.73 | 1.214 | 124.1 | 0.673 | 1.787 | 269.5 | 563.9 | 0.584 | 2.990 | -0.88 | 0.477 | 54.7 | 6.7 | -0.9 | 0.371 |
| 4-3520 | 4-4220 | 0.737 | 294.6 | -12.6 | 6.64 | 1.216 | 126.5 | 0.699 | 1.803 | 265.0 | 564.0 | 0.544 | 3.063 | -0.91 | 0.479 | 51.8 | 11.2 | -0.9 | 0.390 |
| 4-3520 | 4-4240 | 0.783 | 297.0 | -13.1 | 6.56 | 1.218 | 129.2 | 0.725 | 1.820 | 260.3 | 564.0 | 0.500 | 3.140 | -0.96 | 0.482 | 48.9 | 15.8 | -0.8 | 0.410 |
| 4-3520 | 4-4260 | 0.833 | 299.3 | -13.5 | 6.46 | 1.220 | 131.9 | 0.752 | 1.837 | 255.4 | 563.7 | 0.455 | 3.219 | -1.02 | 0.486 | 45.8 | 20.6 | -0.8 | 0.432 |
| 4-3520 | 4-4280 | 0.885 | 301.8 | -13.9 | 6.35 | 1.222 | 134.9 | 0.781 | 1.854 | 250.3 | 563.1 | 0.407 | 3.302 | -1.09 | 0.489 | 42.6 | 25.6 | -0.8 | 0.455 |
| 4-3520 | 4-4300 | 0.942 | 304.3 | -14.2 | 6.22 | 1.225 | 138.2 | 0.809 | 1.872 | 244.9 | 562.3 | 0.357 | 3.387 | -1.18 | 0.494 | 39.3 | 30.7 | -0.8 | 0.480 |
| 4-3520 | 4-4320 | 1.001 | 307.0 | -14.4 | 6.07 | 1.227 | 141.6 | 0.838 | 1.890 | 239.2 | 561.2 | 0.305 | 3.474 | -1.30 | 0.499 | 35.8 | 36.0 | -0.7 | 0.507 |
| 4-3530 | 4-3670 | 0.604 | 264.9 | -12.5 | 4.75 | 1.449 | 109.1 | 1.059 | 15.028 | 322.8 | 468.5 | 0.881 | --- | 2.91 | 0.998 | 141.2 | 358.6 | 2.3 | 0.780 |
| 4-3530 | 4-3690 | 0.499 | 264.8 | -12.2 | 4.21 | 1.365 | 106.6 | 0.848 | 5.888 | 323.7 | 465.8 | 0.896 | --- | 3.32 | 0.871 | 136.7 | 359.1 | 3.1 | 0.636 |
| 4-3530 | 4-3710 | 0.422 | 264.2 | -12.8 | 3.49 | 1.308 | 104.5 | 0.707 | 3.104 | 324.8 | 473.4 | 0.909 | --- | 3.91 | 0.777 | 132.1 | 1.2 | 4.3 | 0.524 |
| 4-3530 | 4-3730 | 0.365 | 263.1 | -14.9 | 2.45 | 1.269 | 102.8 | 0.611 | 2.365 | 326.0 | 481.1 | 0.920 | --- | 4.84 | 0.708 | 127.4 | 2.6 | 6.2 | 0.436 |
| 4-3530 | 4-3750 | 0.322 | 261.7 | -20.4 | 0.75 | 1.242 | 101.4 | 0.544 | 2.038 | 327.2 | 488.7 | 0.929 | --- | 6.42 | 0.655 | 122.8 | 3.2 | 9.6 | 0.368 |
| 4-3530 | 4-3770 | 0.298 | 260.0 | -33.7 | -2.59 | 1.223 | 100.4 | 0.498 | 1.863 | 328.3 | 496.0 | 0.935 | --- | 9.65 | 0.616 | 118.3 | 2.4 | 16.4 | 0.321 |
| 4-3530 | 4-3790 | 0.364 | 261.2 | -68.5 | -12.50 | 1.210 | 99.7 | 0.466 | 1.761 | 329.2 | 503.1 | 0.940 | --- | 19.44 | 0.585 | 114.1 | 357.6 | 32.6 | 0.330 |
| 4-3530 | 4-3830 | 0.523 | 277.4 | 43.4 | 23.98 | 1.196 | 99.3 | 0.433 | 1.660 | 328.7 | 515.6 | 0.941 | --- | -17.26 | 0.544 | 106.5 | 353.3 | -35.4 | 0.267 |
| 4-3530 | 4-3850 | 0.395 | 270.4 | 31.1 | 15.86 | 1.192 | 99.3 | 0.425 | 1.636 | 328.4 | 521.2 | 0.941 | --- | -9.24 | 0.530 | 102.9 | 351.5 | -24.0 | 0.204 |
| 4-3530 | 4-3870 | 0.354 | 268.8 | 24.2 | 12.87 | 1.190 | 99.5 | 0.422 | 1.623 | 327.5 | 526.2 | 0.939 | --- | -6.37 | 0.518 | 99.7 | 347.2 | -18.2 | 0.182 |
| 4-3530 | 4-3890 | 0.338 | 268.7 | 19.5 | 11.31 | 1.189 | 99.8 | 0.422 | 1.618 | 326.3 | 530.8 | 0.935 | --- | -4.91 | 0.509 | 96.6 | 342.9 | -14.5 | 0.173 |
| 4-3530 | 4-3910 | 0.332 | 269.4 | 15.8 | 10.33 | 1.189 | 100.3 | 0.425 | 1.618 | 324.7 | 534.9 | 0.930 | --- | -4.04 | 0.502 | 93.7 | 339.2 | -11.9 | 0.172 |
| 4-3530 | 4-3930 | 0.332 | 270.5 | 12.7 | 9.65 | 1.190 | 101.0 | 0.430 | 1.621 | 322.8 | 538.7 | 0.924 | --- | -3.47 | 0.496 | 91.0 | 336.6 | -9.9 | 0.175 |
| 4-3530 | 4-3950 | 0.337 | 271.9 | 9.9 | 9.14 | 1.191 | 101.7 | 0.437 | 1.628 | 320.6 | 542.1 | 0.916 | 2.339 | -3.08 | 0.491 | 88.4 | 335.1 | -8.3 | 0.182 |
| 4-3530 | 4-3970 | 0.345 | 273.5 | 7.4 | 8.74 | 1.192 | 102.6 | 0.446 | 1.636 | 318.2 | 545.2 | 0.907 | 2.368 | -2.79 | 0.487 | 85.9 | 334.6 | -7.1 | 0.190 |
| 4-3530 | 4-3990 | 0.356 | 275.2 | 5.1 | 8.41 | 1.194 | 103.5 | 0.456 | 1.647 | 315.7 | 548.0 | 0.896 | 2.397 | -2.57 | 0.484 | 83.5 | 335.1 | -6.2 | 0.200 |
| 4-3530 | 4-4010 | 0.370 | 277.1 | 3.0 | 8.13 | 1.196 | 104.5 | 0.467 | 1.658 | 312.9 | 550.5 | 0.884 | 2.432 | -2.41 | 0.481 | 81.1 | 336.2 | -5.4 | 0.211 |
| 4-3530 | 4-4030 | 0.386 | 279.0 | 1.0 | 7.88 | 1.197 | 105.7 | 0.479 | 1.671 | 310.0 | 552.8 | 0.870 | 2.472 | -2.29 | 0.479 | 78.8 | 338.0 | -4.8 | 0.222 |
| 4-3530 | 4-4050 | 0.404 | 281.1 | -0.7 | 7.66 | 1.199 | 106.9 | 0.493 | 1.684 | 306.9 | 554.8 | 0.855 | 2.514 | -2.20 | 0.477 | 76.5 | 340.3 | -4.4 | 0.234 |
| 4-3530 | 4-4070 | 0.425 | 283.1 | -2.4 | 7.46 | 1.201 | 108.2 | 0.507 | 1.698 | 303.8 | 556.7 | 0.837 | 2.559 | -2.13 | 0.476 | 74.2 | 343.0 | -4.0 | 0.246 |
| 4-3530 | 4-4090 | 0.447 | 285.2 | -3.9 | 7.27 | 1.203 | 109.6 | 0.523 | 1.712 | 300.4 | 558.4 | 0.818 | 2.607 | -2.08 | 0.475 | 71.9 | 346.0 | -3.6 | 0.258 |
| 4-3530 | 4-4110 | 0.471 | 287.3 | -5.2 | 7.09 | 1.206 | 111.1 | 0.539 | 1.727 | 297.0 | 559.9 | 0.796 | 2.658 | -2.05 | 0.475 | 69.6 | 349.2 | -3.4 | 0.271 |
| 4-3530 | 4-4130 | 0.498 | 289.4 | -6.5 | 6.92 | 1.208 | 112.7 | 0.557 | 1.742 | 293.5 | 561.2 | 0.772 | 2.712 | -2.04 | 0.475 | 67.3 | 352.7 | -3.1 | 0.284 |
| 4-3530 | 4-4150 | 0.527 | 291.5 | -7.6 | 6.75 | 1.210 | 114.4 | 0.575 | 1.757 | 289.8 | 562.3 | 0.747 | 2.768 | -2.04 | 0.476 | 65.0 | 356.4 | -2.9 | 0.298 |
| 4-3530 | 4-4170 | 0.557 | 293.7 | -8.6 | 6.58 | 1.212 | 116.2 | 0.595 | 1.773 | 286.0 | 563.3 | 0.718 | 2.827 | -2.05 | 0.477 | 62.6 | 0.3 | -2.8 | 0.312 |
| 4-3530 | 4-4190 | 0.590 | 295.9 | -9.5 | 6.41 | 1.214 | 118.1 | 0.615 | 1.788 | 282.1 | 564.0 | 0.688 | 2.889 | -2.08 | 0.479 | 60.2 | 4.3 | -2.6 | 0.327 |
| 4-3530 | 4-4210 | 0.626 | 298.1 | -10.2 | 6.23 | 1.216 | 120.1 | 0.637 | 1.804 | 278.0 | 564.7 | 0.655 | 2.954 | -2.12 | 0.481 | 57.7 | 8.5 | -2.5 | 0.343 |
| 4-3530 | 4-4230 | 0.664 | 300.3 | -10.9 | 6.05 | 1.218 | 122.2 | 0.660 | 1.820 | 273.8 | 565.1 | 0.619 | 3.021 | -2.18 | 0.483 | 55.2 | 12.8 | -2.4 | 0.360 |
| 4-3530 | 4-4250 | 0.705 | 302.6 | -11.5 | 5.85 | 1.220 | 124.5 | 0.684 | 1.836 | 269.4 | 565.3 | 0.580 | 3.092 | -2.26 | 0.486 | 52.6 | 17.3 | -2.3 | 0.378 |
| 4-3530 | 4-4270 | 0.748 | 304.9 | -12.0 | 5.64 | 1.222 | 127.0 | 0.709 | 1.852 | 264.9 | 565.3 | 0.539 | 3.165 | -2.36 | 0.489 | 49.9 | 21.9 | -2.2 | 0.397 |
| 4-3530 | 4-4290 | 0.795 | 307.3 | -12.4 | 5.41 | 1.224 | 129.7 | 0.735 | 1.869 | 260.1 | 565.1 | 0.495 | 3.242 | -2.49 | 0.493 | 47.0 | 26.7 | -2.2 | 0.417 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3530 | 4-4310 | 0.845 | 309.7 | -12.7 | 5.15 | 1.226 | 132.5 | 0.762 | 1.885 | 255.1 | 564.7 | 0.449 | 3.322 | -2.64 | 0.497 | 44.1 | 31.6 | -2.1 | 0.439 |
| 4-3530 | 4-4330 | 0.898 | 312.3 | -13.0 | 4.86 | 1.227 | 135.5 | 0.790 | 1.902 | 249.8 | 564.0 | 0.400 | 3.404 | -2.84 | 0.502 | 41.0 | 36.7 | -2.0 | 0.463 |
| 4-3540 | 4-3680 | 0.543 | 268.4 | -13.8 | 3.79 | 1.433 | 105.6 | 1.0224 | 1.201 | 329.1 | 457.9 | 0.915 | --- | 4.12 | 0.976 | 139.7 | 360.0 | 3.5 | 0.744 |
| 4-3540 | 4-3700 | 0.446 | 267.9 | -14.1 | 3.13 | 1.354 | 103.4 | 0.818 | 5.093 | 330.2 | 465.5 | 0.927 | --- | 4.56 | 0.855 | 135.3 | 2.3 | 4.5 | 0.606 |
| 4-3540 | 4-3720 | 0.375 | 266.8 | -15.6 | 2.30 | 1.301 | 101.5 | 0.683 | 2.953 | 331.6 | 473.3 | 0.937 | --- | 5.18 | 0.766 | 130.7 | 4.1 | 6.0 | 0.500 |
| 4-3540 | 4-3740 | 0.323 | 265.3 | -18.7 | 1.20 | 1.264 | 99.9 | 0.591 | 2.311 | 333.1 | 481.2 | 0.946 | --- | 6.08 | 0.700 | 126.1 | 5.3 | 8.3 | 0.417 |
| 4-3540 | 4-3760 | 0.287 | 263.6 | -24.9 | -0.36 | 1.239 | 98.7 | 0.528 | 2.017 | 334.5 | 489.0 | 0.952 | --- | 7.46 | 0.650 | 121.6 | 5.6 | 11.8 | 0.353 |
| 4-3540 | 4-3780 | 0.268 | 261.7 | -36.2 | -2.85 | 1.221 | 97.9 | 0.485 | 1.857 | 335.6 | 496.5 | 0.957 | --- | 9.76 | 0.612 | 117.2 | 4.7 | 17.5 | 0.307 |
| 4-3540 | 4-3800 | 0.284 | 260.3 | -56.7 | -7.49 | 1.209 | 97.2 | 0.455 | 1.762 | 336.7 | 503.5 | 0.960 | --- | 14.23 | 0.583 | 113.1 | 1.7 | 27.2 | 0.289 |
| 4-3540 | 4-3820 | 0.439 | 322.2 | -87.4 | -19.45 | 1.201 | 96.8 | 0.435 | 1.704 | 337.4 | 510.1 | 0.962 | --- | 26.01 | 0.561 | 109.2 | 353.9 | 42.3 | 0.345 |
| 4-3540 | 4-3860 | 0.726 | 293.6 | 58.0 | 36.58 | 1.193 | 97.3 | 0.418 | 1.648 | 335.0 | 521.3 | 0.958 | --- | -30.36 | 0.530 | 102.5 | 348.1 | -47.3 | 0.356 |
| 4-3540 | 4-3880 | 0.476 | 277.6 | 44.6 | 21.89 | 1.191 | 97.4 | 0.415 | 1.636 | 334.5 | 526.3 | 0.957 | --- | -15.84 | 0.520 | 99.3 | 348.2 | -37.3 | 0.231 |
| 4-3540 | 4-3900 | 0.394 | 274.2 | 35.5 | 16.62 | 1.190 | 97.7 | 0.415 | 1.632 | 333.3 | 530.8 | 0.955 | --- | -10.73 | 0.511 | 96.4 | 344.9 | -29.1 | 0.194 |
| 4-3540 | 4-3920 | 0.359 | 273.6 | 28.8 | 13.91 | 1.191 | 98.2 | 0.418 | 1.633 | 331.8 | 534.9 | 0.951 | --- | -8.19 | 0.504 | 93.7 | 341.6 | -23.2 | 0.182 |
| 4-3540 | 4-3940 | 0.342 | 274.2 | 23.5 | 12.25 | 1.191 | 98.8 | 0.422 | 1.637 | 329.9 | 538.6 | 0.946 | --- | -6.69 | 0.498 | 91.1 | 339.2 | -18.9 | 0.179 |
| 4-3540 | 4-3960 | 0.336 | 275.4 | 19.1 | 11.11 | 1.192 | 99.5 | 0.429 | 1.644 | 327.7 | 541.9 | 0.940 | 2.349 | -5.72 | 0.494 | 88.6 | 337.8 | -15.6 | 0.182 |
| 4-3540 | 4-3980 | 0.336 | 277.1 | 15.2 | 10.26 | 1.194 | 100.3 | 0.436 | 1.654 | 325.3 | 544.9 | 0.932 | 2.375 | -5.04 | 0.490 | 86.2 | 337.4 | -13.2 | 0.188 |
| 4-3540 | 4-4000 | 0.341 | 278.9 | 11.9 | 9.60 | 1.195 | 101.2 | 0.445 | 1.664 | 322.8 | 547.7 | 0.924 | 2.405 | -4.56 | 0.487 | 83.9 | 337.9 | -11.3 | 0.196 |
| 4-3540 | 4-4020 | 0.349 | 281.0 | 8.8 | 9.06 | 1.197 | 102.2 | 0.455 | 1.676 | 320.1 | 550.2 | 0.913 | 2.439 | -4.18 | 0.484 | 81.7 | 339.1 | -9.8 | 0.205 |
| 4-3540 | 4-4040 | 0.361 | 283.1 | 6.2 | 8.60 | 1.199 | 103.3 | 0.466 | 1.689 | 317.2 | 552.5 | 0.902 | 2.476 | -3.90 | 0.482 | 79.5 | 340.8 | -8.7 | 0.214 |
| 4-3540 | 4-4060 | 0.375 | 285.3 | 3.7 | 8.20 | 1.201 | 104.4 | 0.478 | 1.702 | 314.2 | 554.6 | 0.889 | 2.518 | -3.69 | 0.481 | 77.4 | 343.1 | -7.7 | 0.224 |
| 4-3540 | 4-4080 | 0.391 | 287.5 | 1.6 | 7.85 | 1.203 | 105.6 | 0.491 | 1.716 | 311.1 | 556.5 | 0.874 | 2.558 | -3.53 | 0.480 | 75.3 | 345.7 | -7.0 | 0.235 |
| 4-3540 | 4-4100 | 0.410 | 289.8 | -0.4 | 7.52 | 1.205 | 106.9 | 0.504 | 1.731 | 307.9 | 558.2 | 0.858 | 2.603 | -3.41 | 0.479 | 73.2 | 348.6 | -6.4 | 0.246 |
| 4-3540 | 4-4120 | 0.430 | 292.1 | -2.1 | 7.22 | 1.207 | 108.3 | 0.519 | 1.745 | 304.6 | 559.8 | 0.840 | 2.651 | -3.32 | 0.479 | 71.1 | 351.8 | -5.9 | 0.257 |
| 4-3540 | 4-4140 | 0.453 | 294.3 | -3.6 | 6.94 | 1.209 | 109.7 | 0.534 | 1.760 | 301.1 | 561.2 | 0.820 | 2.701 | -3.26 | 0.479 | 69.0 | 355.2 | -5.4 | 0.269 |
| 4-3540 | 4-4160 | 0.478 | 296.6 | -5.0 | 6.67 | 1.211 | 111.2 | 0.551 | 1.775 | 297.6 | 562.4 | 0.798 | 2.753 | -3.22 | 0.480 | 66.9 | 358.8 | -5.1 | 0.281 |
| 4-3540 | 4-4180 | 0.504 | 298.9 | -6.2 | 6.40 | 1.213 | 112.9 | 0.568 | 1.790 | 294.0 | 563.5 | 0.774 | 2.807 | -3.21 | 0.481 | 64.7 | 2.5 | -4.8 | 0.293 |
| 4-3540 | 4-4200 | 0.533 | 301.2 | -7.3 | 6.14 | 1.215 | 114.6 | 0.586 | 1.806 | 290.3 | 564.4 | 0.747 | 2.864 | -3.22 | 0.483 | 62.5 | 6.4 | -4.5 | 0.306 |
| 4-3540 | 4-4220 | 0.564 | 303.4 | -8.2 | 5.87 | 1.217 | 116.4 | 0.605 | 1.821 | 286.4 | 565.2 | 0.719 | 2.924 | -3.25 | 0.485 | 60.3 | 10.5 | -4.3 | 0.320 |
| 4-3540 | 4-4240 | 0.598 | 305.7 | -9.0 | 5.61 | 1.219 | 118.3 | 0.626 | 1.837 | 282.4 | 565.9 | 0.688 | 2.986 | -3.30 | 0.487 | 58.0 | 14.7 | -4.1 | 0.335 |
| 4-3540 | 4-4260 | 0.633 | 308.0 | -9.7 | 5.33 | 1.221 | 120.4 | 0.647 | 1.852 | 278.3 | 566.3 | 0.654 | 3.051 | -3.37 | 0.490 | 55.7 | 19.0 | -3.9 | 0.350 |
| 4-3540 | 4-4280 | 0.672 | 310.4 | -10.3 | 5.04 | 1.223 | 122.5 | 0.669 | 1.868 | 274.0 | 566.6 | 0.618 | 3.118 | -3.47 | 0.494 | 53.3 | 23.4 | -3.8 | 0.366 |
| 4-3540 | 4-4300 | 0.713 | 312.7 | -10.7 | 4.72 | 1.224 | 124.9 | 0.693 | 1.884 | 269.5 | 566.7 | 0.579 | 3.189 | -3.61 | 0.497 | 50.8 | 28.0 | -3.6 | 0.384 |
| 4-3540 | 4-4320 | 0.757 | 315.1 | -11.1 | 4.39 | 1.226 | 127.4 | 0.717 | 1.900 | 264.9 | 566.6 | 0.537 | 3.262 | -3.77 | 0.501 | 48.1 | 32.7 | -3.5 | 0.403 |
| 4-3540 | 4-4340 | 0.804 | 317.6 | -11.4 | 4.02 | 1.228 | 130.0 | 0.743 | 1.916 | 260.0 | 566.3 | 0.492 | 3.339 | -3.98 | 0.506 | 45.4 | 37.6 | -3.4 | 0.424 |
| 4-3550 | 4-3670 | 0.610 | 270.7 | -14.5 | 3.68 | 1.527 | 104.1 | 1.286 | -3.269 | 334.9 | 450.3 | 0.935 | --- | 4.74 | 1.111 | 142.3 | 0.7 | 3.7 | 0.879 |
| 4-3550 | 4-3690 | 0.484 | 270.5 | -14.7 | 3.04 | 1.416 | 101.9 | 0.979 | 44.232 | 335.9 | 457.8 | 0.944 | --- | 5.04 | 0.952 | 138.2 | 3.1 | 4.5 | 0.706 |
| 4-3550 | 4-3710 | 0.395 | 269.4 | -15.7 | 2.32 | 1.342 | 99.9 | 0.784 | 4.411 | 337.3 | 465.7 | 0.953 | --- | 5.48 | 0.837 | 133.8 | 5.1 | 5.7 | 0.576 |
| 4-3550 | 4-3730 | 0.331 | 267.7 | -17.8 | 1.45 | 1.292 | 98.3 | 0.656 | 2.792 | 339.0 | 473.8 | 0.961 | --- | 6.03 | 0.752 | 129.2 | 6.7 | 7.4 | 0.475 |
| 4-3550 | 4-3750 | 0.286 | 265.5 | -21.7 | 0.38 | 1.258 | 96.9 | 0.570 | 2.247 | 340.8 | 482.0 | 0.967 | --- | 6.83 | 0.689 | 124.7 | 7.6 | 9.8 | 0.396 |
| 4-3550 | 4-3770 | 0.256 | 263.1 | -28.2 | -1.02 | 1.234 | 95.9 | 0.511 | 1.987 | 342.5 | 489.9 | 0.971 | --- | 7.97 | 0.642 | 120.3 | 7.6 | 13.2 | 0.336 |
| 4-3550 | 4-3790 | 0.241 | 260.7 | -38.4 | -2.99 | 1.218 | 95.2 | 0.471 | 1.843 | 343.8 | 497.5 | 0.974 | --- | 9.69 | 0.607 | 116.0 | 6.5 | 18.3 | 0.293 |
| 4-3550 | 4-3810 | 0.248 | 258.2 | -53.6 | -6.01 | 1.207 | 94.7 | 0.445 | 1.758 | 344.7 | 504.5 | 0.976 | --- | 12.47 | 0.579 | 112.0 | 3.8 | 25.6 | 0.268 |
| 4-3550 | 4-3830 | 0.303 | 255.4 | -74.3 | -11.37 | 1.200 | 94.4 | 0.427 | 1.706 | 345.3 | 511.0 | 0.977 | --- | 17.59 | 0.559 | 108.3 | 359.0 | 35.8 | 0.274 |
| 4-3550 | 4-3850 | 0.492 | 71.1 | -80.7 | -23.50 | 1.196 | 94.2 | 0.416 | 1.674 | 345.7 | 517.0 | 0.978 | --- | 29.49 | 0.542 | 104.8 | 351.1 | 46.8 | 0.354 |
| 4-3550 | 4-3890 | 0.969 | 317.1 | 67.9 | 51.09 | 1.191 | 95.6 | 0.411 | 1.647 | 340.6 | 528.6 | 0.971 | --- | -45.54 | 0.520 | 99.0 | 348.5 | -49.5 | 0.482 |
| 4-3550 | 4-3910 | 0.584 | 284.7 | 55.6 | 28.71 | 1.191 | 95.7 | 0.410 | 1.644 | 340.3 | 531.1 | 0.970 | --- | -23.37 | 0.512 | 96.1 | 346.7 | -45.4 | 0.283 |
| 4-3550 | 4-3930 | 0.450 | 278.6 | 45.2 | 20.64 | 1.191 | 96.1 | 0.412 | 1.646 | 338.9 | 535.1 | 0.968 | --- | -15.51 | 0.505 | 93.4 | 344.2 | -37.4 | 0.222 |
| 4-3550 | 4-3950 | 0.389 | 277.5 | 37.2 | 16.60 | 1.192 | 96.7 | 0.416 | 1.651 | 337.1 | 538.7 | 0.964 | --- | -11.69 | 0.500 | 90.9 | 341.9 | -30.4 | 0.200 |
| 4-3550 | 4-3970 | 0.359 | 278.1 | 30.7 | 14.16 | 1.193 | 97.4 | 0.422 | 1.659 | 334.9 | 541.9 | 0.959 | 2.359 | -9.46 | 0.495 | 88.6 | 340.6 | -24.9 | 0.193 |
| 4-3550 | 4-3990 | 0.343 | 279.5 | 25.2 | 12.51 | 1.195 | 98.1 | 0.429 | 1.669 | 332.6 | 544.9 | 0.954 | 2.384 | -8.02 | 0.492 | 86.4 | 340.2 | -20.8 | 0.193 |
| 4-3550 | 4-4010 | 0.337 | 281.4 | 20.5 | 11.30 | 1.196 | 99.0 | 0.437 | 1.680 | 330.0 | 547.6 | 0.947 | 2.414 | -7.03 | 0.489 | 84.2 | 340.7 | -17.6 | 0.197 |
| 4-3550 | 4-4030 | 0.338 | 283.6 | 16.3 | 10.36 | 1.198 | 99.9 | 0.445 | 1.693 | 327.3 | 550.0 | 0.939 | 2.448 | -6.31 | 0.487 | 82.1 | 341.9 | -15.1 | 0.203 |
| 4-3550 | 4-4050 | 0.342 | 286.0 | 12.6 | 9.60 | 1.200 | 100.9 | 0.455 | 1.706 | 324.5 | 552.3 | 0.930 | 2.482 | -5.78 | 0.485 | 80.1 | 343.6 | -13.2 | 0.211 |
| 4-3550 | 4-4070 | 0.351 | 288.4 | 9.4 | 8.96 | 1.202 | 102.0 | 0.466 | 1.719 | 321.5 | 554.4 | 0.919 | 2.520 | -5.37 | 0.484 | 78.1 | 345.8 | -11.7 | 0.219 |
| 4-3550 | 4-4090 | 0.363 | 291.0 | 6.5 | 8.41 | 1.204 | 103.1 | 0.477 | 1.733 | 318.5 | 556.3 | 0.907 | 2.560 | -5.06 | 0.483 | 76.1 | 348.3 | -10.5 | 0.227 |
| 4-3550 | 4-4110 | 0.377 | 293.5 | 4.0 | 7.92 | 1.206 | 104.3 | 0.489 | 1.748 | 315.4 | 558.1 | 0.893 | 2.603 | -4.81 | 0.482 | 74.2 | 351.2 | -9.5 | 0.237 |
| 4-3550 | 4-4130 | 0.393 | 296.0 | 1.8 | 7.48 | 1.208 | 105.6 | 0.502 | 1.763 | 312.1 | 559.7 | 0.878 | 2.647 | -4.63 | 0.482 | 72.2 | 354.3 | -8.7 | 0.246 |
| 4-3550 | 4-4150 | 0.412 | 298.5 | -0.2 | 7.08 | 1.210 | 106.9 | 0.515 | 1.778 | 308.8 | 561.2 | 0.862 | 2.694 | -4.49 | 0.483 | 70.3 | 357.6 | -8.0 | 0.256 |
| 4-3550 | 4-4170 | 0.433 | 301.0 | -1.9 | 6.70 | 1.212 | 108.3 | 0.530 | 1.793 | 305.4 | 562.5 | 0.843 | 2.742 | -4.39 | 0.484 | 68.4 | 1.1 | -7.4 | 0.267 |
| 4-3550 | 4-4190 | 0.456 | 303.5 | -3.4 | 6.33 | 1.214 | 109.7 | 0.545 | 1.808 | 301.9 | 563.7 | 0.823 | 2.793 | -4.32 | 0.485 | 66.4 | 4.8 | -6.9 | 0.277 |
| 4-3550 | 4-4210 | 0.481 | 305.9 | -4.7 | 5.98 | 1.216 | 111.3 | 0.561 | 1.823 | 298.3 | 564.8 | 0.801 | 2.845 | -4.29 | 0.487 | 64.4 | 8.6 | -6.5 | 0.289 |
| 4-3550 | 4-4230 | 0.508 | 308.3 | -5.9 | 5.63 | 1.218 | 112.9 | 0.578 | 1.838 | 294.6 | 565.7 | 0.776 | 2.900 | -4.28 | 0.489 | 62.4 | 12.6 | -6.2 | 0.301 |
| 4-3550 | 4-4250 | 0.537 | 310.8 | -6.8 | 5.29 | 1.219 | 114.7 | 0.596 | 1.853 | 290.9 | 566.5 | 0.750 | 2.957 | -4.30 | 0.491 | 60.4 | 16.6 | -5.9 | 0.313 |
| 4-3550 | 4-4270 | 0.568 | 313.1 | -7.7 | 4.94 | 1.221 | 116.5 | 0.614 | 1.869 | 286.9 | 567.2 | 0.721 | 3.018 | -4.35 | 0.494 | 58.3 | 20.8 | -5.6 | 0.327 |
| 4-3550 | 4-4290 | 0.602 | 315.5 | -8.3 | 4.58 | 1.223 | 118.4 | 0.634 | 1.884 | 282.9 | 567.7 | 0.689 | 3.078 | -4.42 | 0.498 | 56.1 | 25.1 | -5.4 | 0.341 |
| 4-3550 | 4-4310 | 0.638 | 317.9 | -8.9 | 4.21 | 1.225 | 120.5 | 0.655 | 1.899 | 278.7 | 568.0 | 0.655 | 3.143 | -4.53 | 0.501 | 53.9 | 29.6 | -5.2 | 0.356 |
| 4-3550 | 4-4330 | 0.677 | 320.4 | -9.4 | 3.81 | 1.227 | 122.7 | 0.677 | 1.915 | 274.3 | 568.2 | 0.618 | 3.211 | -4.68 | 0.505 | 51.6 | 34.1 | -5.0 | 0.373 |
| 4-3550 | 4-4350 | 0.719 | 322.8 | -9.7 | 3.39 | 1.228 | 125.1 | 0.700 | 1.930 | 269.7 | 568.2 | 0.578 | 3.282 | -4.87 | 0.510 | 49.2 | 38.8 | -4.8 | 0.391 |
| 4-3560 | 4-3680 | 0.544 | 271.7 | -14.9 | 3.12 | 1.499 | 100.0 | 1.217 | -4.428 | 341.9 | 450.4 | 0.962 | --- | 5.50 | 1.075 | 140.9 | 3.8 | 4.5 | 0.831 |
| 4-3560 | 4-3700 | 0.429 | 270.7 | -15.6 | 2.43 | 1.396 | 98.1 | 0.928 | 13.501 | 343.2 | 458.3 | 0.969 | --- | 5.75 | 0.924 | 136.7 | 5.9 | 5.5 | 0.667 |
| 4-3560 | 4-3720 | 0.349 | 268.7 | -17.1 | 1.67 | 1.327 | 96.4 | 0.746 | 3.837 | 345.1 | 466.6 | 0.975 | --- | 6.12 | 0.815 | 132.2 | 7.7 | 6.8 | 0.544 |
| 4-3560 | 4-3740 | 0.293 | 265.9 | -19.9 | 0.81 | 1.281 | 94.9 | 0.627 | 2.626 | 347.1 | 475.0 | 0.979 | --- | 6.61 | 0.736 | 127.7 | 8.9 | 8.6 | 0.449 |
| 4-3560 | 4-3760 | 0.255 | 262.7 | -24.3 | -0.22 | 1.250 | 93.8 | 0.548 | 2.174 | 349.2 | 483.4 | 0.983 | --- | 7.28 | 0.677 | 123.2 | 9.5 | 11.0 | 0.375 |
| 4-3560 | 4-3780 | 0.231 | 259.4 | -31.0 | -1.48 | 1.229 | 93.0 | 0.495 | 1.950 | 351.0 | 491.5 | 0.985 | --- | 8.21 | 0.633 | 118.9 | 9.2 | 14.4 | 0.319 |
| 4-3560 | 4-3800 | 0.220 | 256.0 | -40.2 | -3.10 | 1.214 | 92.4 | 0.459 | 1.824 | 352.4 | 499.1 | 0.986 | --- | 9.52 | 0.599 | 114.7 | 7.7 | 18.9 | 0.278 |
| 4-3560 | 4-3820 | 0.225 | 252.3 | -52.5 | -5.32 | 1.204 | 92.0 | 0.436 | 1.748 | 353.3 | 506.1 | 0.987 | --- | 11.44 | 0.574 | 110.8 | 4.9 | 25.0 | 0.252 |
| 4-3560 | 4-3840 | 0.255 | 247.1 | -67.4 | -8.64 | 1.198 | 91.8 | 0.420 | 1.703 | 353.8 | 512.4 | 0.987 | --- | 14.47 | 0.555 | 107.2 | 0.8 | 32.6 | 0.246 |
| 4-3560 | 4-3860 | 0.331 | 221.3 | -84.0 | -14.22 | 1.194 | 91.8 | 0.411 | 1.676 | 353.8 | 518.2 | 0.987 | --- | 19.77 | 0.540 | 103.8 | 355.4 | 41.3 | 0.269 |
| 4-3560 | 4-3880 | 0.520 | 84.0 | -75.4 | -25.53 | 1.192 | 91.8 | 0.405 | 1.661 | 353.7 | 523.5 | 0.987 | --- | 30.81 | 0.528 | 100.7 | 349.6 | 48.8 | 0.353 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3560 | 4-3900 | 1.034 | 72.6 | -49.8 | -55.23 | 1.191 | 91.6 | 0.403 | 1.654 | 354.5 | 528.4 | 0.988 | --- | 60.24 | 0.519 | 97.6 | 346.3 | 47.2 | 0.609 |
| 4-3560 | 4-3920 | 1.230 | 354.2 | 73.3 | 67.25 | 1.191 | 94.2 | 0.407 | 1.653 | 345.5 | 531.3 | 0.980 | --- | -82.50 | 0.511 | 95.9 | 349.6 | -46.5 | 0.622 |
| 4-3560 | 4-3940 | 0.719 | 292.4 | 65.2 | 36.67 | 1.191 | 94.2 | 0.408 | 1.657 | 345.6 | 535.4 | 0.980 | --- | -32.1[illegible] | 0.505 | 93.1 | 348.4 | -49.2 | 0.355 |
| 4-3560 | 4-3960 | 0.520 | 281.9 | 53.8 | 25.09 | 1.192 | 94.6 | 0.412 | 1.663 | 344.2 | 539.0 | 0.978 | --- | -20.85 | 0.500 | 90.7 | 345.7 | -43.0 | 0.261 |
| 4-3560 | 4-3980 | 0.428 | 280.1 | 44.8 | 19.43 | 1.194 | 95.2 | 0.417 | 1.672 | 342.2 | 542.1 | 0.975 | 2.369 | -15.44 | 0.497 | 88.5 | 344.0 | -35.9 | 0.225 |
| 4-3560 | 4-4000 | 0.380 | 280.8 | 37.3 | 16.09 | 1.195 | 95.9 | 0.423 | 1.683 | 339.9 | 545.0 | 0.971 | 2.394 | -12.35 | 0.493 | 86.3 | 343.3 | -29.9 | 0.211 |
| 4-3560 | 4-4020 | 0.354 | 282.6 | 31.0 | 13.86 | 1.197 | 96.8 | 0.430 | 1.695 | 337.4 | 547.7 | 0.966 | 2.423 | -10.38 | 0.491 | 84.3 | 343.6 | -25.2 | 0.207 |
| 4-3560 | 4-4040 | 0.340 | 284.9 | 25.5 | 12.26 | 1.199 | 97.6 | 0.438 | 1.707 | 334.7 | 550.1 | 0.960 | 2.455 | -9.03 | 0.489 | 82.3 | 344.7 | -21.4 | 0.208 |
| 4-3560 | 4-4060 | 0.335 | 287.5 | 20.6 | 11.03 | 1.201 | 98.6 | 0.446 | 1.721 | 331.9 | 552.3 | 0.953 | 2.489 | -8.06 | 0.487 | 80.4 | 346.4 | -18.6 | 0.212 |
| 4-3560 | 4-4080 | 0.335 | 290.2 | 16.3 | 10.04 | 1.203 | 99.6 | 0.456 | 1.735 | 329.0 | 554.4 | 0.945 | 2.526 | -7.33 | 0.486 | 78.6 | 348.5 | -16.3 | 0.217 |
| 4-3560 | 4-4100 | 0.341 | 293.1 | 12.6 | 9.22 | 1.205 | 100.6 | 0.465 | 1.750 | 326.0 | 556.3 | 0.935 | 2.564 | -6.78 | 0.485 | 76.7 | 351.0 | -14.5 | 0.224 |
| 4-3560 | 4-4120 | 0.349 | 296.0 | 9.3 | 8.52 | 1.207 | 101.8 | 0.476 | 1.764 | 322.9 | 558.0 | 0.924 | 2.604 | -6.36 | 0.485 | 74.9 | 353.8 | -13.0 | 0.231 |
| 4-3560 | 4-4140 | 0.361 | 298.9 | 6.4 | 7.90 | 1.209 | 102.9 | 0.487 | 1.779 | 319.7 | 559.7 | 0.912 | 2.646 | -6.02 | 0.486 | 73.1 | 356.9 | -11.8 | 0.239 |
| 4-3560 | 4-4160 | 0.376 | 301.7 | 3.9 | 7.35 | 1.210 | 104.2 | 0.499 | 1.794 | 316.5 | 561.2 | 0.899 | 2.690 | -5.77 | 0.486 | 71.3 | 0.1 | -10.8 | 0.247 |
| 4-3560 | 4-4180 | 0.393 | 304.5 | 1.7 | 6.84 | 1.212 | 105.4 | 0.512 | 1.809 | 313.2 | 562.6 | 0.883 | 2.735 | -5.57 | 0.487 | 69.6 | 3.5 | -10.0 | 0.256 |
| 4-3560 | 4-4200 | 0.412 | 307.3 | -0.2 | 6.37 | 1.214 | 106.8 | 0.525 | 1.824 | 309.8 | 563.9 | 0.866 | 2.782 | -5.42 | 0.489 | 67.8 | 7.1 | -9.3 | 0.265 |
| 4-3560 | 4-4220 | 0.433 | 310.0 | -1.8 | 5.92 | 1.216 | 108.2 | 0.539 | 1.839 | 306.4 | 565.0 | 0.848 | 2.831 | -5.31 | 0.490 | 66.0 | 10.9 | -8.7 | 0.274 |
| 4-3560 | 4-4240 | 0.456 | 312.6 | -3.2 | 5.49 | 1.218 | 109.7 | 0.554 | 1.854 | 302.8 | 566.1 | 0.827 | 2.882 | -5.25 | 0.493 | 64.1 | 14.7 | -8.2 | 0.285 |
| 4-3560 | 4-4260 | 0.482 | 315.3 | -4.4 | 5.07 | 1.220 | 111.3 | 0.569 | 1.869 | 299.2 | 567.0 | 0.805 | 2.934 | -5.21 | 0.495 | 62.3 | 18.7 | -7.7 | 0.296 |
| 4-3560 | 4-4280 | 0.509 | 317.8 | -5.4 | 4.65 | 1.221 | 112.9 | 0.586 | 1.885 | 295.4 | 567.9 | 0.780 | 2.989 | -5.22 | 0.498 | 60.4 | 22.8 | -7.4 | 0.307 |
| 4-3560 | 4-4300 | 0.539 | 320.3 | -6.3 | 4.23 | 1.223 | 114.7 | 0.603 | 1.900 | 291.5 | 568.5 | 0.753 | 3.048 | -5.25 | 0.502 | 58.5 | 27.0 | -7.0 | 0.319 |
| 4-3560 | 4-4320 | 0.570 | 322.9 | -6.9 | 3.81 | 1.225 | 116.5 | 0.622 | 1.914 | 287.5 | 569.1 | 0.724 | 3.105 | -5.32 | 0.505 | 56.5 | 31.3 | -6.7 | 0.333 |
| 4-3560 | 4-4340 | 0.605 | 325.3 | -7.5 | 3.37 | 1.226 | 118.5 | 0.641 | 1.929 | 283.4 | 569.5 | 0.692 | 3.167 | -5.42 | 0.510 | 54.4 | 35.7 | -6.5 | 0.347 |
| 4-3560 | 4-4360 | 0.642 | 327.8 | -7.9 | 2.91 | 1.228 | 120.6 | 0.662 | 1.944 | 279.1 | 569.7 | 0.657 | 3.232 | -5.57 | 0.514 | 52.3 | 40.3 | -6.3 | 0.363 |
| 4-3570 | 4-3670 | 0.639 | 271.4 | -15.0 | 3.33 | 1.618 | 97.2 | 1.589 | -1.662 | 348.3 | 443.6 | 0.979 | --- | 6.01 | 1.237 | 143.3 | 4.4 | 4.5 | 0.992 |
| 4-3570 | 4-3690 | 0.484 | 270.6 | -15.4 | 2.64 | 1.469 | 95.6 | 1.139 | -7.068 | 349.5 | 451.2 | 0.982 | --- | 6.11 | 1.034 | 139.4 | 6.4 | 5.3 | 0.780 |
| 4-3570 | 4-3710 | 0.381 | 268.4 | -16.5 | 1.91 | 1.374 | 94.0 | 0.873 | 7.736 | 351.3 | 459.5 | 0.986 | --- | 6.30 | 0.893 | 135.2 | 8.3 | 6.3 | 0.627 |
| 4-3570 | 4-3730 | 0.311 | 265.0 | -18.6 | 1.13 | 1.311 | 92.6 | 0.705 | 3.357 | 353.6 | 468.3 | 0.989 | --- | 6.58 | 0.791 | 130.7 | 9.7 | 7.7 | 0.511 |
| 4-3570 | 4-3750 | 0.265 | 260.9 | -21.8 | 0.28 | 1.269 | 91.5 | 0.598 | 2.461 | 356.1 | 477.1 | 0.990 | --- | 6.98 | 0.717 | 126.2 | 10.7 | 9.6 | 0.422 |
| 4-3570 | 4-3770 | 0.234 | 256.4 | -26.5 | -0.69 | 1.241 | 90.6 | 0.527 | 2.094 | 358.4 | 485.7 | 0.991 | --- | 7.53 | 0.662 | 121.7 | 10.8 | 12.1 | 0.353 |
| 4-3570 | 4-3790 | 0.216 | 252.0 | -32.9 | -1.83 | 1.222 | 89.9 | 0.480 | 1.906 | 0.3 | 133.8 | --- | --- | 8.27 | 0.621 | 117.4 | 10.1 | 15.3 | 0.301 |
| 4-3570 | 4-3810 | 0.210 | 247.7 | -40.9 | -3.20 | 1.209 | 89.5 | 0.449 | 1.798 | 1.7 | 141.4 | --- | --- | 9.27 | 0.590 | 113.3 | 8.2 | 19.4 | 0.262 |
| 4-3570 | 4-3830 | 0.214 | 243.3 | -50.7 | -4.96 | 1.200 | 89.3 | 0.428 | 1.734 | 2.5 | 148.2 | --- | --- | 10.67 | 0.567 | 109.5 | 5.2 | 24.6 | 0.238 |
| 4-3570 | 4-3850 | 0.233 | 237.5 | -62.0 | -7.31 | 1.195 | 89.2 | 0.416 | 1.695 | 2.7 | 154.4 | --- | --- | 12.68 | 0.549 | 106.0 | 1.1 | 30.6 | 0.227 |
| 4-3570 | 4-3870 | 0.274 | 225.1 | -74.3 | -10.71 | 1.192 | 89.3 | 0.408 | 1.673 | 2.5 | 159.9 | --- | --- | 15.75 | 0.536 | 102.8 | 356.5 | 37.3 | 0.234 |
| 4-3570 | 4-3890 | 0.357 | 160.8 | -83.2 | -16.14 | 1.190 | 89.5 | 0.404 | 1.662 | 1.9 | 164.9 | --- | --- | 20.87 | 0.525 | 99.8 | 352.0 | 44.0 | 0.266 |
| 4-3570 | 4-3910 | 0.528 | 94.4 | -72.8 | -26.20 | 1.189 | 89.7 | 0.402 | 1.658 | 1.2 | 169.4 | --- | --- | 30.63 | 0.517 | 97.0 | 349.0 | 49.3 | 0.345 |
| 4-3570 | 4-3930 | 0.924 | 81.8 | -53.0 | -48.85 | 1.190 | 89.7 | 0.403 | 1.659 | 1.2 | 173.7 | --- | --- | 52.98 | 0.510 | 94.2 | 349.9 | 48.9 | 0.539 |
| 4-3570 | 4-3970 | 0.884 | 302.3 | 74.4 | 46.31 | 1.192 | 92.7 | 0.410 | 1.673 | 350.5 | 539.4 | 0.987 | --- | -42.76 | 0.500 | 90.4 | 353.3 | -49.8 | 0.445 |
| 4-3570 | 4-3990 | 0.605 | 283.8 | 61.6 | 30.23 | 1.193 | 93.1 | 0.414 | 1.683 | 349.2 | 542.5 | 0.986 | 2.380 | -28.96 | 0.497 | 88.2 | 349.6 | -46.5 | 0.311 |
| 4-3570 | 4-4010 | 0.475 | 281.4 | 51.6 | 22.52 | 1.195 | 93.8 | 0.419 | 1.694 | 347.2 | 545.3 | 0.984 | 2.405 | -19.53 | 0.494 | 86.2 | 347.7 | -40.1 | 0.256 |
| 4-3570 | 4-4030 | 0.406 | 282.3 | 43.4 | 18.09 | 1.197 | 94.5 | 0.425 | 1.707 | 344.8 | 547.9 | 0.981 | 2.434 | -15.38 | 0.492 | 84.2 | 347.3 | -34.0 | 0.232 |
| 4-3570 | 4-4050 | 0.367 | 284.5 | 36.3 | 15.20 | 1.199 | 95.4 | 0.432 | 1.721 | 342.2 | 550.3 | 0.977 | 2.465 | -12.78 | 0.490 | 82.4 | 347.9 | -28.9 | 0.222 |
| 4-3570 | 4-4070 | 0.344 | 287.3 | 30.2 | 13.16 | 1.201 | 96.3 | 0.440 | 1.735 | 339.4 | 552.4 | 0.972 | 2.498 | -11.02 | 0.489 | 80.6 | 349.4 | -24.8 | 0.219 |
| 4-3570 | 4-4090 | 0.333 | 290.4 | 24.7 | 11.61 | 1.203 | 97.2 | 0.448 | 1.749 | 336.5 | 554.5 | 0.966 | 2.533 | -9.76 | 0.488 | 78.8 | 351.3 | -21.6 | 0.221 |
| 4-3570 | 4-4110 | 0.328 | 293.7 | 19.9 | 10.39 | 1.205 | 98.2 | 0.457 | 1.764 | 333.8 | 556.4 | 0.959 | 2.570 | -8.82 | 0.488 | 77.1 | 353.7 | -19.0 | 0.224 |
| 4-3570 | 4-4130 | 0.330 | 297.1 | 15.6 | 9.38 | 1.207 | 99.3 | 0.466 | 1.779 | 330.5 | 558.1 | 0.950 | 2.608 | -8.11 | 0.488 | 75.4 | 356.4 | -16.9 | 0.229 |
| 4-3570 | 4-4150 | 0.336 | 300.4 | 11.9 | 8.53 | 1.209 | 100.4 | 0.476 | 1.794 | 327.4 | 559.8 | 0.941 | 2.648 | -7.56 | 0.488 | 73.8 | 359.4 | -15.3 | 0.234 |
| 4-3570 | 4-4170 | 0.345 | 303.7 | 8.7 | 7.78 | 1.210 | 101.5 | 0.486 | 1.810 | 324.2 | 561.3 | 0.930 | 2.689 | -7.13 | 0.489 | 72.1 | 2.6 | -13.9 | 0.241 |
| 4-3570 | 4-4190 | 0.357 | 306.9 | 5.9 | 7.12 | 1.212 | 102.7 | 0.497 | 1.825 | 321.0 | 562.8 | 0.918 | 2.732 | -6.79 | 0.490 | 70.5 | 6.0 | -12.7 | 0.248 |
| 4-3570 | 4-4210 | 0.372 | 310.1 | 3.5 | 6.52 | 1.214 | 104.0 | 0.509 | 1.840 | 317.7 | 564.1 | 0.904 | 2.776 | -6.53 | 0.492 | 68.8 | 9.5 | -11.8 | 0.255 |
| 4-3570 | 4-4230 | 0.390 | 313.2 | 1.4 | 5.96 | 1.216 | 105.3 | 0.521 | 1.855 | 314.3 | 565.3 | 0.889 | 2.821 | -6.33 | 0.494 | 67.2 | 13.1 | -11.0 | 0.263 |
| 4-3570 | 4-4250 | 0.409 | 316.2 | -0.3 | 5.43 | 1.218 | 106.6 | 0.534 | 1.870 | 310.9 | 566.5 | 0.872 | 2.868 | -6.18 | 0.496 | 65.5 | 16.9 | -10.3 | 0.272 |
| 4-3570 | 4-4270 | 0.431 | 319.1 | -1.8 | 4.93 | 1.220 | 108.1 | 0.547 | 1.885 | 307.4 | 567.5 | 0.853 | 2.917 | -6.07 | 0.499 | 63.8 | 20.8 | -9.7 | 0.281 |
| 4-3570 | 4-4290 | 0.455 | 321.9 | -3.1 | 4.45 | 1.221 | 109.6 | 0.562 | 1.900 | 303.8 | 568.5 | 0.833 | 2.967 | -6.01 | 0.502 | 62.1 | 24.8 | -9.2 | 0.291 |
| 4-3570 | 4-4310 | 0.481 | 324.6 | -4.1 | 3.97 | 1.223 | 111.2 | 0.577 | 1.915 | 300.0 | 569.3 | 0.810 | 3.019 | -5.98 | 0.506 | 60.4 | 28.9 | -8.7 | 0.302 |
| 4-3570 | 4-4330 | 0.509 | 327.3 | -4.9 | 3.49 | 1.225 | 112.9 | 0.593 | 1.930 | 296.2 | 570.0 | 0.785 | 3.074 | -5.99 | 0.509 | 58.6 | 33.1 | -8.3 | 0.313 |
| 4-3570 | 4-4350 | 0.539 | 330.0 | -5.6 | 3.01 | 1.226 | 114.6 | 0.610 | 1.944 | 292.3 | 570.6 | 0.758 | 3.130 | -6.05 | 0.514 | 56.8 | 37.4 | -8.0 | 0.326 |
| 4-3570 | 4-4370 | 0.572 | 332.6 | -6.1 | 2.52 | 1.228 | 116.5 | 0.628 | 1.959 | 288.2 | 571.1 | 0.728 | 3.190 | -6.14 | 0.518 | 54.9 | 41.9 | -7.7 | 0.339 |
| 4-3580 | 4-3680 | 0.576 | 269.2 | -15.3 | 2.96 | 1.574 | 92.3 | 1.461 | -2.151 | 356.2 | 444.7 | 0.992 | --- | 8.57 | 1.181 | 142.1 | 6.9 | 5.1 | 0.929 |
| 4-3580 | 4-3700 | 0.436 | 266.9 | -16.1 | 2.21 | 1.438 | 91.1 | 1.054 | 18.427 | 357.9 | 452.9 | 0.993 | --- | 6.59 | 0.991 | 138.0 | 8.6 | 6.0 | 0.730 |
| 4-3580 | 4-3720 | 0.346 | 263.0 | -17.6 | 1.45 | 1.351 | 89.8 | 0.814 | 5.331 | 0.3 | 101.8 | --- | --- | 6.70 | 0.859 | 133.7 | 10.2 | 7.1 | 0.586 |
| 4-3580 | 4-3740 | 0.288 | 258.1 | -20.0 | 0.67 | 1.294 | 88.7 | 0.664 | 2.959 | 3.2 | 111.0 | --- | --- | 6.90 | 0.764 | 129.1 | 11.3 | 8.6 | 0.477 |
| 4-3580 | 4-3760 | 0.251 | 252.6 | -23.3 | -0.17 | 1.256 | 87.8 | 0.569 | 2.302 | 6.0 | 120.1 | --- | --- | 7.20 | 0.695 | 124.6 | 11.7 | 10.5 | 0.394 |
| 4-3580 | 4-3780 | 0.229 | 247.3 | -27.7 | -1.09 | 1.231 | 87.2 | 0.508 | 2.011 | 8.4 | 128.9 | --- | --- | 7.62 | 0.645 | 120.1 | 11.4 | 12.9 | 0.331 |
| 4-3580 | 4-3800 | 0.217 | 242.4 | -33.2 | -2.12 | 1.214 | 86.7 | 0.467 | 1.856 | 10.3 | 137.0 | --- | --- | 8.19 | 0.607 | 115.9 | 10.2 | 16.0 | 0.283 |
| 4-3580 | 4-3820 | 0.213 | 237.9 | -39.7 | -3.32 | 1.203 | 86.5 | 0.441 | 1.767 | 11.6 | 144.3 | --- | --- | 8.96 | 0.579 | 111.9 | 7.9 | 19.8 | 0.248 |
| 4-3580 | 4-3840 | 0.216 | 233.8 | -47.3 | -4.75 | 1.196 | 86.4 | 0.424 | 1.715 | 12.2 | 150.9 | --- | --- | 9.99 | 0.558 | 108.1 | 4.5 | 24.2 | 0.225 |
| 4-3580 | 4-3860 | 0.229 | 229.1 | -56.0 | -6.55 | 1.191 | 86.5 | 0.414 | 1.684 | 12.1 | 156.8 | --- | --- | 11.40 | 0.543 | 104.7 | 0.4 | 29.1 | 0.213 |
| 4-3580 | 4-3880 | 0.253 | 221.9 | -65.5 | -8.90 | 1.189 | 86.6 | 0.407 | 1.667 | 11.6 | 162.0 | --- | --- | 13.39 | 0.530 | 101.6 | 356.0 | 34.2 | 0.214 |
| 4-3580 | 4-3900 | 0.298 | 204.6 | -74.9 | -12.21 | 1.187 | 86.9 | 0.404 | 1.660 | 10.7 | 166.7 | --- | --- | 16.34 | 0.521 | 98.7 | 352.1 | 39.4 | 0.228 |
| 4-3580 | 4-3920 | 0.376 | 152.5 | -79.8 | -17.26 | 1.187 | 87.3 | 0.403 | 1.659 | 9.4 | 170.9 | --- | --- | 21.05 | 0.513 | 96.1 | 349.4 | 44.5 | 0.262 |
| 4-3580 | 4-3940 | 0.524 | 105.1 | -72.1 | -25.94 | 1.188 | 87.6 | 0.404 | 1.663 | 8.2 | 174.7 | --- | --- | 29.40 | 0.508 | 93.6 | 348.9 | 48.8 | 0.331 |
| 4-3580 | 4-3960 | 0.829 | 90.9 | -56.5 | -43.37 | 1.189 | 87.9 | 0.406 | 1.670 | 7.4 | 178.3 | --- | --- | 46.52 | 0.503 | 91.1 | 352.5 | 49.7 | 0.479 |
| 4-3580 | 4-4000 | 1.083 | 327.6 | 83.5 | 58.28 | 1.192 | 91.5 | 0.413 | 1.691 | 354.9 | 542.9 | 0.993 | 2.390 | -55.74 | 0.496 | 88.0 | 0.6 | -48.0 | 0.552 |
| 4-3580 | 4-4020 | 0.712 | 283.3 | 69.1 | 36.45 | 1.194 | 91.8 | 0.418 | 1.704 | 354.0 | 545.8 | 0.992 | 2.416 | -34.22 | 0.494 | 85.9 | 355.7 | -48.4 | 0.370 |
| 4-3580 | 4-4040 | 0.533 | 281.0 | 57.8 | 26.03 | 1.196 | 92.4 | 0.423 | 1.718 | 352.0 | 548.3 | 0.991 | 2.444 | -24.10 | 0.492 | 84.0 | 352.9 | -43.3 | 0.291 |
| 4-3580 | 4-4060 | 0.437 | 282.5 | 48.8 | 20.23 | 1.198 | 93.1 | 0.429 | 1.732 | 349.6 | 550.6 | 0.989 | 2.475 | -18.60 | 0.491 | 82.2 | 352.2 | -37.4 | 0.255 |
| 4-3580 | 4-4080 | 0.382 | 285.3 | 41.1 | 16.56 | 1.200 | 94.0 | 0.436 | 1.747 | 346.9 | 552.7 | 0.986 | 2.508 | -15.23 | 0.490 | 80.5 | 352.9 | -32.1 | 0.239 |
| 4-3580 | 4-4100 | 0.350 | 288.7 | 34.4 | 14.01 | 1.202 | 94.9 | 0.443 | 1.762 | 344.1 | 554.7 | 0.982 | 2.542 | -12.98 | 0.490 | 78.9 | 354.5 | -27.7 | 0.232 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3580 | 4-4120 | 0.331 | 292.5 | 28.4 | 12.12 | 1.204 | 95.8 | 0.450 | 1.777 | 341.2 | 558.6 | 0.977 | 2.578 | -11.39 | 0.490 | 77.3 | 356.6 | -24.2 | 0.230 |
| 4-3580 | 4-4140 | 0.321 | 296.3 | 23.1 | 10.64 | 1.206 | 96.8 | 0.458 | 1.793 | 338.2 | 558.3 | 0.971 | 2.614 | -10.22 | 0.490 | 75.7 | 359.2 | -21.4 | 0.231 |
| 4-3580 | 4-4160 | 0.319 | 300.2 | 18.4 | 9.44 | 1.208 | 97.9 | 0.467 | 1.808 | 335.1 | 560.0 | 0.964 | 2.652 | -9.33 | 0.491 | 74.2 | 2.0 | -19.1 | 0.234 |
| 4-3580 | 4-4180 | 0.321 | 304.1 | 14.3 | 8.43 | 1.210 | 98.9 | 0.476 | 1.824 | 332.0 | 561.5 | 0.956 | 2.691 | -8.65 | 0.492 | 72.6 | 5.1 | -17.2 | 0.238 |
| 4-3580 | 4-4200 | 0.328 | 307.9 | 10.7 | 7.56 | 1.212 | 100.1 | 0.485 | 1.839 | 328.8 | 563.0 | 0.947 | 2.732 | -8.11 | 0.493 | 71.1 | 8.4 | -15.7 | 0.243 |
| 4-3580 | 4-4220 | 0.338 | 311.6 | 7.6 | 6.79 | 1.214 | 101.2 | 0.495 | 1.855 | 325.8 | 564.3 | 0.936 | 2.773 | -7.69 | 0.495 | 69.6 | 11.8 | -14.4 | 0.249 |
| 4-3580 | 4-4240 | 0.351 | 315.2 | 5.0 | 6.10 | 1.216 | 102.5 | 0.506 | 1.870 | 322.3 | 565.6 | 0.924 | 2.815 | -7.35 | 0.497 | 68.1 | 15.4 | -13.4 | 0.255 |
| 4-3580 | 4-4260 | 0.367 | 318.7 | 2.8 | 5.47 | 1.217 | 103.7 | 0.517 | 1.885 | 318.9 | 566.9 | 0.911 | 2.859 | -7.09 | 0.500 | 66.6 | 19.1 | -12.4 | 0.262 |
| 730 | | | | | | | | | | | | | | | | | | | |
| 4-3580 | 4-4280 | 0.385 | 322.0 | 0.9 | 4.88 | 1.219 | 105.1 | 0.529 | 1.900 | 315.5 | 568.0 | 0.895 | 2.904 | -6.89 | 0.503 | 65.0 | 22.9 | -11.7 | 0.270 |
| 4-3580 | 4-4300 | 0.405 | 325.2 | -0.6 | 4.31 | 1.221 | 106.4 | 0.541 | 1.915 | 312.0 | 569.0 | 0.878 | 2.951 | -6.74 | 0.506 | 63.5 | 26.9 | -11.0 | 0.278 |
| 4-3580 | 4-4320 | 0.428 | 328.3 | -1.9 | 3.77 | 1.222 | 107.9 | 0.554 | 1.930 | 308.4 | 570.0 | 0.860 | 2.999 | -6.64 | 0.509 | 61.9 | 30.9 | -10.4 | 0.287 |
| 4-3580 | 4-4340 | 0.452 | 331.3 | -2.9 | 3.24 | 1.224 | 109.4 | 0.568 | 1.944 | 304.8 | 570.8 | 0.839 | 3.049 | -6.58 | 0.513 | 60.4 | 35.0 | -9.9 | 0.297 |
| 4-3580 | 4-4360 | 0.479 | 334.2 | -3.7 | 2.72 | 1.226 | 111.0 | 0.583 | 1.959 | 301.0 | 571.6 | 0.816 | 3.101 | -6.57 | 0.518 | 58.7 | 39.3 | -9.5 | 0.308 |
| 4-3580 | 4-4380 | 0.508 | 337.0 | -4.4 | 2.20 | 1.227 | 112.8 | 0.599 | 1.973 | 297.1 | 572.2 | 0.791 | 3.155 | -6.59 | 0.522 | 57.1 | 43.6 | -9.1 | 0.319 |
| 4-3590 | 4-3690 | 0.529 | 264.7 | -15.8 | 2.61 | 1.528 | 87.2 | 1.326 | -3.053 | 5.0 | 86.8 | --- | --- | 7.02 | 1.121 | 141.0 | 8.8 | 5.7 | 0.865 |
| 4-3590 | 4-3710 | 0.407 | 260.5 | -16.9 | 1.82 | 1.404 | 86.3 | 0.966 | 28.950 | 7.4 | 95.7 | --- | --- | 6.95 | 0.944 | 136.8 | 10.3 | 6.6 | 0.680 |
| 4-3590 | 4-3730 | 0.331 | 255.0 | -18.6 | 1.03 | 1.326 | 85.5 | 0.754 | 4.030 | 10.5 | 105.2 | --- | --- | 6.97 | 0.822 | 132.2 | 11.4 | 7.8 | 0.545 |
| 4-3590 | 4-3750 | 0.285 | 248.9 | -20.9 | 0.24 | 1.275 | 84.7 | 0.625 | 2.629 | 13.8 | 114.9 | --- | --- | 7.08 | 0.735 | 127.6 | 12.1 | 9.3 | 0.445 |
| 4-3590 | 4-3770 | 0.258 | 243.1 | -23.9 | -0.58 | 1.242 | 84.1 | 0.544 | 2.152 | 16.9 | 124.3 | --- | --- | 7.28 | 0.672 | 123.0 | 12.1 | 11.2 | 0.368 |
| 4-3590 | 4-3790 | 0.242 | 237.8 | -27.6 | -1.44 | 1.220 | 83.6 | 0.492 | 1.926 | 19.4 | 133.0 | --- | --- | 7.59 | 0.626 | 118.5 | 11.2 | 13.6 | 0.309 |
| 4-3590 | 4-3810 | 0.234 | 233.5 | -31.9 | -2.39 | 1.205 | 83.4 | 0.459 | 1.803 | 21.1 | 140.9 | --- | --- | 8.01 | 0.592 | 114.2 | 9.4 | 16.5 | 0.266 |
| 4-3590 | 4-3830 | 0.231 | 230.0 | -37.0 | -3.44 | 1.196 | 83.3 | 0.438 | 1.732 | 22.1 | 147.9 | --- | --- | 8.58 | 0.567 | 110.3 | 6.5 | 19.8 | 0.234 |
| 4-3590 | 4-3850 | 0.233 | 226.9 | -42.9 | -4.65 | 1.190 | 83.4 | 0.424 | 1.691 | 22.4 | 154.2 | --- | --- | 9.34 | 0.548 | 106.6 | 2.9 | 23.5 | 0.214 |
| 4-3590 | 4-3870 | 0.240 | 223.9 | -49.6 | -6.08 | 1.186 | 83.6 | 0.415 | 1.668 | 22.0 | 159.6 | --- | --- | 10.35 | 0.534 | 103.3 | 358.7 | 27.4 | 0.203 |
| 4-3590 | 4-3890 | 0.254 | 219.9 | -57.2 | -7.84 | 1.185 | 83.9 | 0.410 | 1.657 | 21.1 | 164.5 | --- | --- | 11.71 | 0.523 | 100.3 | 354.6 | 31.4 | 0.201 |
| 4-3590 | 4-3910 | 0.279 | 213.1 | -65.3 | -10.11 | 1.184 | 84.3 | 0.408 | 1.654 | 19.8 | 168.8 | --- | --- | 13.60 | 0.515 | 97.5 | 351.0 | 35.3 | 0.208 |
| 4-3590 | 4-3930 | 0.319 | 197.5 | -73.1 | -13.20 | 1.185 | 84.8 | 0.407 | 1.657 | 18.2 | 172.7 | --- | --- | 16.32 | 0.509 | 95.0 | 348.6 | 39.3 | 0.225 |
| 4-3590 | 4-3950 | 0.389 | 159.5 | -77.5 | -17.72 | 1.186 | 85.3 | 0.408 | 1.663 | 16.4 | 176.2 | --- | --- | 20.50 | 0.504 | 92.6 | 347.8 | 43.4 | 0.256 |
| 4-3590 | 4-3970 | 0.511 | 117.4 | -72.8 | -25.04 | 1.187 | 85.8 | 0.410 | 1.673 | 14.6 | 179.4 | --- | --- | 27.48 | 0.500 | 90.4 | 349.3 | 47.4 | 0.314 |
| 4-3590 | 4-3990 | 0.745 | 100.2 | -60.5 | -38.50 | 1.189 | 86.2 | 0.413 | 1.684 | 13.2 | 182.5 | --- | 2.379 | 40.60 | 0.497 | 88.3 | 354.3 | 49.5 | 0.425 |
| 4-3590 | 4-4010 | 1.202 | 94.7 | -41.1 | -65.80 | 1.191 | 86.2 | 0.417 | 1.697 | 13.0 | 185.5 | --- | 2.405 | 67.58 | 0.495 | 86.1 | 3.5 | 44.8 | 0.647 |
| 4-3590 | 4-4050 | 0.849 | 276.4 | 76.6 | 44.37 | 1.195 | 90.4 | 0.423 | 1.726 | 358.6 | 548.7 | 0.997 | 2.458 | -43.22 | 0.492 | 83.7 | 3.8 | -48.9 | 0.444 |
| 4-3590 | 4-4070 | 0.604 | 278.0 | 63.5 | 30.22 | 1.197 | 91.0 | 0.428 | 1.741 | 356.8 | 551.1 | 0.998 | 2.487 | -29.37 | 0.491 | 81.9 | 359.5 | -45.7 | 0.333 |
| 4-3590 | 4-4090 | 0.475 | 281.1 | 53.6 | 22.62 | 1.199 | 91.7 | 0.434 | 1.757 | 354.4 | 553.1 | 0.995 | 2.519 | -22.08 | 0.491 | 80.3 | 358.0 | -40.2 | 0.282 |
| 4-3590 | 4-4110 | 0.401 | 284.9 | 45.3 | 17.97 | 1.201 | 92.5 | 0.440 | 1.773 | 351.7 | 555.1 | 0.993 | 2.552 | -17.73 | 0.491 | 78.8 | 358.5 | -34.8 | 0.257 |
| 4-3590 | 4-4130 | 0.357 | 289.2 | 38.1 | 14.82 | 1.203 | 93.4 | 0.446 | 1.789 | 348.8 | 556.9 | 0.991 | 2.587 | -14.90 | 0.491 | 77.2 | 360.0 | -30.2 | 0.245 |
| 4-3590 | 4-4150 | 0.330 | 293.6 | 31.6 | 12.54 | 1.205 | 94.4 | 0.453 | 1.805 | 345.9 | 558.6 | 0.987 | 2.623 | -12.93 | 0.492 | 75.8 | 2.2 | -26.4 | 0.239 |
| 4-3590 | 4-4170 | 0.315 | 298.1 | 25.8 | 10.79 | 1.207 | 95.4 | 0.460 | 1.821 | 342.9 | 560.3 | 0.983 | 2.659 | -11.50 | 0.493 | 74.3 | 4.8 | -23.4 | 0.238 |
| 4-3590 | 4-4190 | 0.308 | 302.7 | 20.7 | 9.39 | 1.209 | 96.4 | 0.468 | 1.837 | 339.8 | 561.8 | 0.977 | 2.696 | -10.42 | 0.494 | 72.9 | 7.7 | -20.9 | 0.239 |
| 4-3590 | 4-4210 | 0.307 | 307.2 | 16.2 | 8.23 | 1.211 | 97.5 | 0.476 | 1.852 | 336.7 | 563.3 | 0.970 | 2.734 | -9.59 | 0.496 | 71.5 | 10.9 | -18.9 | 0.242 |
| 4-3590 | 4-4230 | 0.311 | 311.6 | 12.3 | 7.24 | 1.213 | 98.6 | 0.485 | 1.868 | 333.5 | 564.7 | 0.962 | 2.774 | -8.93 | 0.498 | 70.1 | 14.2 | -17.2 | 0.246 |
| 4-3590 | 4-4250 | 0.319 | 315.8 | 9.0 | 6.37 | 1.215 | 99.7 | 0.494 | 1.883 | 330.3 | 566.0 | 0.953 | 2.814 | -8.42 | 0.500 | 68.7 | 17.7 | -15.8 | 0.250 |
| 4-3590 | 4-4270 | 0.330 | 319.9 | 6.1 | 5.60 | 1.217 | 100.9 | 0.504 | 1.899 | 327.0 | 567.3 | 0.943 | 2.856 | -8.01 | 0.503 | 67.3 | 21.4 | -14.6 | 0.256 |
| 4-3590 | 4-4290 | 0.344 | 323.8 | 3.8 | 4.89 | 1.218 | 102.2 | 0.514 | 1.914 | 323.6 | 568.4 | 0.931 | 2.897 | -7.68 | 0.506 | 66.0 | 25.1 | -13.6 | 0.262 |
| 4-3590 | 4-4310 | 0.361 | 327.5 | 1.8 | 4.24 | 1.220 | 103.5 | 0.524 | 1.929 | 320.2 | 569.6 | 0.917 | 2.940 | -7.43 | 0.509 | 64.6 | 29.0 | -12.8 | 0.269 |
| 4-3590 | 4-4330 | 0.380 | 331.0 | 0.3 | 3.63 | 1.222 | 104.8 | 0.536 | 1.943 | 316.7 | 570.6 | 0.902 | 2.985 | -7.24 | 0.513 | 63.2 | 33.0 | -12.0 | 0.276 |
| 4-3590 | 4-4350 | 0.401 | 334.4 | -1.0 | 3.04 | 1.223 | 106.2 | 0.548 | 1.958 | 313.2 | 571.6 | 0.885 | 3.031 | -7.09 | 0.517 | 61.7 | 37.0 | -11.4 | 0.284 |
| 4-3590 | 4-4370 | 0.424 | 337.7 | -2.0 | 2.47 | 1.225 | 107.7 | 0.561 | 1.972 | 309.5 | 572.4 | 0.866 | 3.079 | -7.00 | 0.522 | 60.3 | 41.2 | -10.8 | 0.293 |
| 4-3590 | 4-4390 | 0.450 | 340.8 | -2.8 | 1.92 | 1.226 | 109.3 | 0.575 | 1.987 | 305.7 | 573.2 | 0.845 | 3.128 | -6.98 | 0.526 | 58.8 | 45.4 | -10.4 | 0.303 |
| 4-3600 | 4-3700 | 0.506 | 258.1 | -16.4 | 2.28 | 1.481 | 81.8 | 1.188 | -5.222 | 15.0 | 90.2 | --- | --- | 7.37 | 1.058 | 140.0 | 10.1 | 6.2 | 0.804 |
| 4-3600 | 4-3720 | 0.402 | 252.4 | -17.6 | 1.44 | 1.370 | 81.4 | 0.879 | 8.040 | 18.4 | 100.0 | --- | --- | 7.20 | 0.895 | 135.6 | 11.2 | 7.1 | 0.631 |
| 4-3600 | 4-3740 | 0.341 | 246.1 | -19.2 | 0.64 | 1.300 | 80.9 | 0.699 | 3.224 | 22.1 | 110.1 | --- | --- | 7.13 | 0.782 | 130.9 | 11.9 | 8.3 | 0.506 |
| 4-3600 | 4-3760 | 0.305 | 240.1 | -21.3 | -0.16 | 1.256 | 80.5 | 0.591 | 2.355 | 25.8 | 120.2 | --- | --- | 7.14 | 0.702 | 126.0 | 12.1 | 9.8 | 0.413 |
| 4-3600 | 4-3780 | 0.285 | 235.0 | -23.7 | -0.96 | 1.227 | 80.1 | 0.525 | 2.013 | 28.9 | 129.5 | --- | --- | 7.25 | 0.645 | 121.3 | 11.4 | 11.7 | 0.343 |
| 4-3600 | 4-3800 | 0.273 | 230.9 | -26.6 | -1.78 | 1.208 | 80.0 | 0.483 | 1.842 | 31.2 | 138.0 | --- | --- | 7.44 | 0.604 | 116.8 | 9.9 | 14.0 | 0.290 |
| 4-3600 | 4-3820 | 0.266 | 227.8 | -30.0 | -2.64 | 1.195 | 79.9 | 0.456 | 1.748 | 32.6 | 145.5 | --- | --- | 7.74 | 0.574 | 112.5 | 7.5 | 16.6 | 0.250 |
| 4-3600 | 4-3840 | 0.262 | 225.4 | -34.0 | -3.58 | 1.188 | 80.0 | 0.439 | 1.694 | 33.1 | 152.1 | --- | --- | 8.15 | 0.552 | 108.6 | 4.2 | 19.4 | 0.223 |
| 4-3600 | 4-3860 | 0.262 | 223.6 | -38.6 | -4.61 | 1.183 | 80.3 | 0.428 | 1.664 | 32.9 | 157.8 | --- | --- | 8.69 | 0.536 | 105.0 | 0.2 | 22.5 | 0.205 |
| 4-3600 | 4-3880 | 0.264 | 222.0 | -43.9 | -5.79 | 1.181 | 80.6 | 0.421 | 1.649 | 32.1 | 162.8 | --- | --- | 9.41 | 0.524 | 101.8 | 356.1 | 25.5 | 0.195 |
| 4-3600 | 4-3900 | 0.271 | 220.2 | -49.9 | -7.16 | 1.180 | 81.1 | 0.417 | 1.644 | 30.8 | 167.3 | --- | --- | 10.38 | 0.515 | 98.8 | 352.4 | 28.4 | 0.193 |
| 4-3600 | 4-3920 | 0.283 | 217.4 | -56.6 | -8.83 | 1.180 | 81.6 | 0.415 | 1.645 | 29.1 | 171.2 | --- | --- | 11.63 | 0.508 | 96.1 | 349.3 | 31.2 | 0.196 |
| 4-3600 | 4-3940 | 0.304 | 212.1 | -63.8 | -10.94 | 1.181 | 82.1 | 0.414 | 1.651 | 27.2 | 174.7 | --- | --- | 13.35 | 0.503 | 93.7 | 347.4 | 34.2 | 0.206 |
| 4-3600 | 4-3960 | 0.339 | 200.3 | -71.0 | -13.73 | 1.183 | 82.7 | 0.415 | 1.661 | 25.0 | 177.9 | --- | --- | 15.78 | 0.500 | 91.5 | 346.6 | 37.5 | 0.223 |
| 4-3600 | 4-3980 | 0.396 | 172.7 | -76.0 | -17.67 | 1.185 | 83.4 | 0.416 | 1.672 | 22.8 | 180.8 | --- | 2.368 | 19.37 | 0.497 | 89.4 | 347.4 | 41.1 | 0.250 |
| 4-3600 | 4-4000 | 0.493 | 132.7 | -74.3 | -23.72 | 1.187 | 84.0 | 0.418 | 1.686 | 20.6 | 183.6 | --- | 2.391 | 25.08 | 0.494 | 87.4 | 350.0 | 45.0 | 0.296 |
| 4-3600 | 4-4020 | 0.671 | 110.5 | -65.0 | -34.09 | 1.189 | 84.5 | 0.421 | 1.701 | 18.6 | 186.1 | --- | 2.417 | 35.11 | 0.493 | 85.6 | 355.7 | 48.3 | 0.379 |
| 4-3600 | 4-4040 | 1.011 | 103.0 | -49.5 | -54.03 | 1.191 | 84.8 | 0.426 | 1.716 | 17.4 | 188.6 | --- | 2.448 | 54.73 | 0.492 | 83.7 | 5.5 | 47.5 | 0.541 |
| 4-3600 | 4-4080 | 1.028 | 240.1 | 83.1 | 54.98 | 1.196 | 89.2 | 0.429 | 1.749 | 2.7 | 191.4 | --- | 2.498 | -54.91 | 0.491 | 81.7 | 13.4 | -47.6 | 0.538 |
| 4-3600 | 4-4100 | 0.697 | 270.7 | 68.8 | 35.54 | 1.198 | 89.6 | 0.434 | 1.765 | 1.4 | 193.6 | --- | 2.531 | -35.78 | 0.491 | 80.0 | 7.5 | -47.2 | 0.385 |
| 4-3600 | 4-4120 | 0.522 | 277.9 | 57.8 | 25.41 | 1.200 | 90.3 | 0.439 | 1.782 | 359.1 | 565.5 | 0.999 | 2.564 | -25.96 | 0.491 | 78.5 | 4.7 | -42.5 | 0.312 |
| 4-3600 | 4-4140 | 0.424 | 283.4 | 48.8 | 19.49 | 1.202 | 91.1 | 0.445 | 1.798 | 356.4 | 557.3 | 0.999 | 2.598 | -20.34 | 0.492 | 77.0 | 4.5 | -37.1 | 0.276 |
| 4-3600 | 4-4160 | 0.366 | 288.6 | 41.0 | 15.62 | 1.204 | 92.0 | 0.450 | 1.815 | 353.6 | 559.0 | 0.998 | 2.633 | -16.78 | 0.493 | 75.7 | 5.8 | -32.3 | 0.258 |
| 4-3600 | 4-4180 | 0.330 | 293.9 | 34.1 | 12.89 | 1.206 | 92.9 | 0.457 | 1.832 | 350.6 | 560.6 | 0.995 | 2.668 | -14.36 | 0.494 | 74.3 | 7.9 | -28.3 | 0.249 |
| 4-3600 | 4-4200 | 0.308 | 299.2 | 27.9 | 10.84 | 1.208 | 93.9 | 0.463 | 1.848 | 347.6 | 562.2 | 0.992 | 2.704 | -12.63 | 0.496 | 73.0 | 10.5 | -25.0 | 0.245 |
| 4-3600 | 4-4220 | 0.297 | 304.5 | 22.3 | 9.23 | 1.210 | 94.9 | 0.470 | 1.864 | 344.5 | 563.6 | 0.988 | 2.740 | -11.34 | 0.498 | 71.7 | 13.5 | -22.3 | 0.244 |
| 4-3600 | 4-4240 | 0.292 | 309.6 | 17.5 | 7.91 | 1.212 | 96.0 | 0.477 | 1.880 | 341.4 | 565.0 | 0.983 | 2.777 | -10.35 | 0.500 | 70.4 | 16.7 | -20.2 | 0.246 |
| 4-3600 | 4-4260 | 0.294 | 314.7 | 13.3 | 6.80 | 1.214 | 97.1 | 0.485 | 1.896 | 338.2 | 566.4 | 0.976 | 2.815 | -9.58 | 0.503 | 69.1 | 20.1 | -18.4 | 0.248 |
| 4-3600 | 4-4280 | 0.300 | 319.5 | 9.7 | 5.85 | 1.216 | 98.2 | 0.493 | 1.911 | 335.0 | 567.7 | 0.988 | 2.854 | -8.97 | 0.506 | 67.9 | 23.7 | -16.9 | 0.252 |
| 4-3600 | 4-4300 | 0.309 | 324.1 | 6.7 | 5.00 | 1.217 | 99.4 | 0.502 | 1.926 | 331.7 | 568.9 | 0.980 | 2.893 | -8.48 | 0.509 | 66.6 | 27.3 | -15.6 | 0.256 |
| 4-3600 | 4-4320 | 0.322 | 328.5 | 4.2 | 4.24 | 1.219 | 100.6 | 0.511 | 1.942 | 328.4 | 570.1 | 0.949 | 2.934 | -8.09 | 0.513 | 65.3 | 31.1 | -14.5 | 0.262 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3600 | 4-4340 | 0.337 | 332.7 | 2.3 | 3.54 | 1.221 | 101.8 | 0.521 | 1.956 | 325.0 | 571.2 | 0.937 | 2.975 | -7.78 | 0.516 | 64.0 | 35.0 | -13.6 | 0.268 |
| 4-3600 | 4-4360 | 0.355 | 336.6 | 0.7 | 2.88 | 1.222 | 103.2 | 0.531 | 1.971 | 321.5 | 572.3 | 0.924 | 3.018 | -7.54 | 0.521 | 62.8 | 39.0 | -12.8 | 0.274 |
| 4-3600 | 4-4380 | 0.375 | 340.4 | -0.6 | 2.26 | 1.224 | 104.5 | 0.542 | 1.985 | 317.9 | 573.2 | 0.909 | 3.062 | -7.36 | 0.525 | 61.5 | 43.1 | -12.1 | 0.282 |
| 4-3600 | 4-4400 | 0.397 | 343.9 | -1.5 | 1.66 | 1.225 | 106.0 | 0.554 | 2.000 | 314.3 | 574.1 | 0.892 | 3.108 | -7.23 | 0.530 | 60.1 | 47.3 | -11.5 | 0.290 |
| 4-3610 | 4-3710 | 0.512 | 250.8 | -16.9 | 1.95 | 1.434 | 76.3 | 1.056 | 16.826 | 28.7 | 95.3 | --- | --- | 7.61 | 0.993 | 139.4 | 10.7 | 6.6 | 0.746 |
| 4-3610 | 4-3730 | 0.424 | 244.6 | -18.1 | 1.07 | 1.335 | 76.3 | 0.800 | 4.686 | 31.0 | 105.9 | --- | --- | 7.33 | 0.843 | 134.6 | 11.3 | 7.5 | 0.585 |
| 4-3610 | 4-3750 | 0.375 | 238.7 | -19.5 | 0.24 | 1.274 | 76.2 | 0.654 | 2.683 | 35.3 | 116.6 | --- | --- | 7.16 | 0.740 | 129.6 | 11.5 | 8.7 | 0.470 |
| 4-3610 | 4-3770 | 0.346 | 233.8 | -21.3 | -0.55 | 1.235 | 76.1 | 0.567 | 2.128 | 39.1 | 126.7 | --- | --- | 7.09 | 0.668 | 124.5 | 11.0 | 10.2 | 0.384 |
| 4-3610 | 4-3790 | 0.329 | 230.0 | -23.3 | -1.33 | 1.210 | 76.0 | 0.515 | 1.886 | 41.9 | 135.8 | --- | --- | 7.10 | 0.617 | 119.6 | 9.7 | 11.9 | 0.320 |
| 4-3610 | 4-3810 | 0.318 | 227.3 | -25.7 | -2.10 | 1.195 | 76.1 | 0.482 | 1.760 | 43.7 | 143.8 | --- | --- | 7.19 | 0.580 | 115.0 | 7.5 | 14.0 | 0.273 |
| 4-3610 | 4-3830 | 0.310 | 225.4 | -28.4 | -2.90 | 1.185 | 76.3 | 0.461 | 1.691 | 44.5 | 150.7 | --- | --- | 7.37 | 0.554 | 110.7 | 4.5 | 16.2 | 0.238 |
| 4-3610 | 4-3850 | 0.305 | 224.1 | -31.6 | -3.74 | 1.179 | 76.6 | 0.447 | 1.653 | 44.5 | 156.6 | --- | --- | 7.65 | 0.535 | 106.8 | 0.8 | 18.6 | 0.214 |
| 4-3610 | 4-3870 | 0.301 | 223.3 | -35.3 | -4.63 | 1.176 | 77.0 | 0.438 | 1.634 | 43.7 | 161.7 | --- | --- | 8.03 | 0.522 | 103.2 | 356.8 | 20.9 | 0.199 |
| 4-3610 | 4-3890 | 0.299 | 222.8 | -39.5 | -5.62 | 1.175 | 77.5 | 0.432 | 1.626 | 42.4 | 166.2 | --- | --- | 8.53 | 0.512 | 100.1 | 353.0 | 23.0 | 0.191 |
| 4-3610 | 4-3910 | 0.300 | 222.2 | -44.3 | -6.72 | 1.175 | 78.1 | 0.429 | 1.627 | 40.7 | 170.2 | --- | --- | 9.19 | 0.505 | 97.2 | 349.7 | 25.1 | 0.189 |
| 4-3610 | 4-3930 | 0.304 | 221.4 | -49.6 | -8.00 | 1.176 | 78.7 | 0.426 | 1.633 | 38.6 | 173.7 | --- | --- | 10.06 | 0.500 | 94.6 | 347.3 | 27.1 | 0.191 |
| 4-3610 | 4-3950 | 0.312 | 219.8 | -55.6 | -9.53 | 1.178 | 79.4 | 0.425 | 1.647 | 36.3 | 176.9 | --- | --- | 11.19 | 0.497 | 92.3 | 345.9 | 29.2 | 0.197 |
| 4-3610 | 4-3970 | 0.328 | 216.3 | -62.1 | -11.42 | 1.180 | 80.1 | 0.425 | 1.655 | 33.9 | 179.8 | --- | --- | 12.71 | 0.494 | 90.2 | 345.5 | 31.6 | 0.207 |
| 4-3610 | 4-3990 | 0.355 | 208.5 | -68.9 | -13.87 | 1.182 | 80.8 | 0.426 | 1.669 | 31.3 | 182.4 | --- | 2.380 | 14.80 | 0.492 | 88.2 | 346.2 | 34.4 | 0.222 |
| 4-3610 | 4-4010 | 0.400 | 189.7 | -74.7 | -17.22 | 1.184 | 81.5 | 0.427 | 1.685 | 28.7 | 184.9 | --- | 2.404 | 17.80 | 0.491 | 86.4 | 348.0 | 37.8 | 0.244 |
| 4-3610 | 4-4030 | 0.474 | 153.3 | -76.2 | -22.13 | 1.186 | 82.3 | 0.429 | 1.701 | 26.1 | 187.2 | --- | 2.431 | 22.38 | 0.490 | 84.7 | 351.3 | 41.7 | 0.279 |
| 4-3610 | 4-4050 | 0.606 | 123.2 | -70.1 | -30.07 | 1.189 | 82.9 | 0.431 | 1.718 | 23.7 | 189.4 | --- | 2.460 | 29.99 | 0.489 | 83.0 | 356.8 | 45.8 | 0.339 |
| 4-3610 | 4-4070 | 0.851 | 111.5 | -57.9 | -44.44 | 1.191 | 83.5 | 0.435 | 1.736 | 21.7 | 191.5 | --- | 2.491 | 44.05 | 0.489 | 81.4 | 6.1 | 48.0 | 0.453 |
| 4-3610 | 4-4130 | 0.822 | 255.0 | 73.2 | 42.76 | 1.199 | 88.2 | 0.440 | 1.789 | 5.8 | 196.0 | --- | 2.578 | -44.06 | 0.491 | 78.1 | 16.9 | -47.8 | 0.451 |
| 4-3610 | 4-4150 | 0.583 | 272.4 | 61.3 | 28.90 | 1.201 | 88.8 | 0.445 | 1.806 | 3.8 | 197.8 | --- | 2.611 | -30.50 | 0.492 | 76.7 | 12.2 | -44.4 | 0.347 |
| 4-3610 | 4-4170 | 0.453 | 280.8 | 51.6 | 21.21 | 1.203 | 89.6 | 0.450 | 1.823 | 1.2 | 199.5 | --- | 2.646 | -23.11 | 0.493 | 75.4 | 11.0 | -39.1 | 0.297 |
| 4-3610 | 4-4190 | 0.377 | 287.4 | 43.2 | 16.42 | 1.205 | 90.5 | 0.455 | 1.841 | 358.4 | 561.1 | 1.002 | 2.679 | -18.62 | 0.495 | 74.1 | 11.8 | -34.1 | 0.271 |
| 4-3610 | 4-4210 | 0.330 | 293.6 | 35.7 | 13.16 | 1.207 | 91.4 | 0.461 | 1.857 | 355.4 | 562.6 | 1.001 | 2.714 | -15.66 | 0.497 | 72.9 | 13.8 | -29.8 | 0.258 |
| 4-3610 | 4-4230 | 0.302 | 299.7 | 29.0 | 10.77 | 1.209 | 92.4 | 0.467 | 1.874 | 352.4 | 564.1 | 1.000 | 2.749 | -13.58 | 0.499 | 71.7 | 16.3 | -26.2 | 0.252 |
| 4-3610 | 4-4250 | 0.286 | 305.7 | 23.1 | 8.94 | 1.211 | 93.4 | 0.473 | 1.890 | 349.3 | 565.5 | 0.997 | 2.784 | -12.06 | 0.502 | 70.5 | 19.3 | -23.4 | 0.249 |
| 4-3610 | 4-4270 | 0.279 | 311.6 | 17.8 | 7.47 | 1.213 | 94.5 | 0.479 | 1.907 | 346.2 | 566.8 | 0.993 | 2.820 | -10.91 | 0.505 | 69.3 | 22.6 | -21.0 | 0.249 |
| 4-3610 | 4-4290 | 0.277 | 317.3 | 13.4 | 6.25 | 1.215 | 95.5 | 0.486 | 1.922 | 343.0 | 568.1 | 0.988 | 2.857 | -10.01 | 0.508 | 68.1 | 26.0 | -19.1 | 0.251 |
| 4-3610 | 4-4310 | 0.281 | 322.8 | 9.6 | 5.21 | 1.216 | 96.7 | 0.493 | 1.938 | 339.7 | 569.4 | 0.982 | 2.894 | -9.31 | 0.512 | 67.0 | 29.6 | -17.5 | 0.253 |
| 4-3610 | 4-4330 | 0.289 | 328.0 | 6.5 | 4.30 | 1.218 | 97.8 | 0.501 | 1.953 | 336.5 | 570.6 | 0.974 | 2.932 | -8.75 | 0.516 | 65.8 | 33.3 | -16.2 | 0.257 |
| 4-3610 | 4-4350 | 0.301 | 333.0 | 4.0 | 3.49 | 1.220 | 99.0 | 0.509 | 1.968 | 333.1 | 571.8 | 0.966 | 2.971 | -8.30 | 0.520 | 64.7 | 37.2 | -15.0 | 0.262 |
| 4-3610 | 4-4370 | 0.315 | 337.6 | 2.0 | 2.75 | 1.221 | 100.2 | 0.518 | 1.983 | 329.7 | 572.9 | 0.956 | 3.010 | -7.94 | 0.524 | 63.5 | 41.1 | -14.0 | 0.267 |
| 4-3610 | 4-4390 | 0.331 | 342.0 | 0.5 | 2.07 | 1.223 | 101.5 | 0.527 | 1.998 | 326.2 | 574.0 | 0.944 | 3.051 | -7.65 | 0.529 | 62.3 | 45.2 | -13.2 | 0.273 |
| 4-3610 | 4-4410 | 0.350 | 346.1 | -0.7 | 1.42 | 1.224 | 102.9 | 0.538 | 2.012 | 322.6 | 575.0 | 0.930 | 3.093 | -7.43 | 0.534 | 61.2 | 49.3 | -12.5 | 0.280 |
| 4-3620 | 4-3720 | 0.547 | 244.4 | -17.4 | 1.61 | 1.387 | 70.4 | 0.940 | 14.895 | 40.4 | 102.4 | --- | --- | 7.75 | 0.926 | 139.0 | 10.3 | 6.8 | 0.693 |
| 4-3620 | 4-3740 | 0.471 | 238.8 | -18.5 | 0.68 | 1.300 | 70.9 | 0.736 | 3.329 | 45.4 | 113.8 | --- | --- | 7.36 | 0.788 | 133.8 | 10.5 | 7.7 | 0.544 |
| 4-3620 | 4-3760 | 0.428 | 234.1 | -19.8 | -0.16 | 1.247 | 71.2 | 0.623 | 2.299 | 49.9 | 124.6 | --- | --- | 7.09 | 0.695 | 128.4 | 10.0 | 8.8 | 0.438 |
| 4-3620 | 4-3780 | 0.402 | 230.6 | -21.3 | -0.95 | 1.214 | 71.5 | 0.556 | 1.939 | 53.3 | 134.3 | --- | --- | 6.92 | 0.630 | 123.1 | 8.8 | 10.2 | 0.360 |
| 4-3620 | 4-3800 | 0.385 | 228.2 | -23.1 | -1.70 | 1.194 | 71.8 | 0.516 | 1.770 | 55.5 | 142.7 | --- | --- | 6.84 | 0.585 | 117.9 | 6.8 | 11.8 | 0.302 |
| 4-3620 | 4-3820 | 0.373 | 226.6 | -25.2 | -2.44 | 1.181 | 72.1 | 0.491 | 1.682 | 56.5 | 149.9 | --- | --- | 6.85 | 0.554 | 113.2 | 4.0 | 13.5 | 0.260 |
| 4-3620 | 4-3840 | 0.363 | 225.7 | -27.5 | -3.17 | 1.174 | 72.6 | 0.474 | 1.634 | 56.6 | 156.0 | --- | --- | 6.93 | 0.532 | 108.8 | 0.5 | 15.3 | 0.230 |
| 4-3620 | 4-3860 | 0.355 | 225.3 | -30.1 | -3.92 | 1.170 | 73.1 | 0.462 | 1.611 | 55.8 | 161.2 | --- | --- | 7.09 | 0.517 | 104.9 | 356.6 | 17.1 | 0.210 |
| 4-3620 | 4-3880 | 0.348 | 225.2 | -33.1 | -4.70 | 1.168 | 73.7 | 0.454 | 1.601 | 54.5 | 165.7 | --- | --- | 7.33 | 0.506 | 101.4 | 352.9 | 18.7 | 0.198 |
| 4-3620 | 4-3900 | 0.342 | 225.4 | -36.4 | -5.53 | 1.168 | 74.3 | 0.449 | 1.601 | 52.7 | 169.6 | --- | --- | 7.67 | 0.499 | 98.2 | 349.5 | 20.1 | 0.192 |
| 4-3620 | 4-3920 | 0.338 | 225.7 | -40.2 | -6.44 | 1.169 | 75.0 | 0.445 | 1.607 | 50.5 | 173.1 | --- | --- | 8.12 | 0.494 | 95.5 | 347.0 | 21.5 | 0.190 |
| 4-3620 | 4-3940 | 0.336 | 225.9 | -44.4 | -7.44 | 1.171 | 75.8 | 0.442 | 1.617 | 48.1 | 176.2 | --- | --- | 8.70 | 0.491 | 93.0 | 345.3 | 22.8 | 0.191 |
| 4-3620 | 4-3960 | 0.337 | 226.0 | -49.1 | -8.59 | 1.173 | 76.5 | 0.440 | 1.631 | 45.5 | 179.1 | --- | --- | 9.46 | 0.488 | 90.7 | 344.5 | 24.3 | 0.195 |
| 4-3620 | 4-3980 | 0.341 | 225.5 | -54.4 | -9.95 | 1.176 | 77.3 | 0.439 | 1.646 | 42.7 | 181.7 | --- | 2.369 | 10.44 | 0.487 | 88.7 | 344.6 | 26.0 | 0.201 |
| 4-3620 | 4-4000 | 0.351 | 223.8 | -60.3 | -11.60 | 1.178 | 78.1 | 0.438 | 1.663 | 39.9 | 184.0 | --- | 2.392 | 11.73 | 0.486 | 86.8 | 345.4 | 28.0 | 0.210 |
| 4-3620 | 4-4020 | 0.370 | 219.4 | -66.6 | -13.69 | 1.181 | 78.9 | 0.439 | 1.681 | 37.0 | 186.3 | --- | 2.416 | 13.48 | 0.486 | 85.1 | 347.1 | 30.5 | 0.222 |
| 4-3620 | 4-4040 | 0.402 | 208.4 | -72.8 | -16.46 | 1.184 | 79.8 | 0.440 | 1.699 | 34.1 | 188.4 | --- | 2.446 | 15.93 | 0.486 | 83.5 | 349.6 | 33.7 | 0.239 |
| 4-3620 | 4-4060 | 0.457 | 181.3 | -77.2 | -20.38 | 1.187 | 80.6 | 0.441 | 1.718 | 31.2 | 190.4 | --- | 2.475 | 19.53 | 0.486 | 82.0 | 353.1 | 37.5 | 0.264 |
| 4-3620 | 4-4080 | 0.551 | 142.2 | -75.3 | -26.40 | 1.189 | 81.4 | 0.443 | 1.737 | 28.5 | 192.3 | --- | 2.506 | 25.24 | 0.487 | 80.6 | 358.3 | 42.0 | 0.306 |
| 4-3620 | 4-4100 | 0.722 | 121.6 | -66.2 | -36.66 | 1.192 | 82.0 | 0.445 | 1.756 | 26.1 | 194.2 | --- | 2.536 | 35.20 | 0.488 | 79.1 | 6.3 | 46.1 | 0.383 |
| 4-3620 | 4-4120 | 1.051 | 116.4 | -51.0 | -56.29 | 1.194 | 82.5 | 0.449 | 1.775 | 24.4 | 196.0 | --- | 2.572 | 54.54 | 0.489 | 77.7 | 19.0 | 46.6 | 0.535 |
| 4-3620 | 4-4160 | 1.001 | 225.1 | 74.9 | 53.28 | 1.199 | 86.9 | 0.448 | 1.812 | 10.0 | 198.3 | --- | 2.623 | -55.61 | 0.492 | 76.3 | 27.9 | -46.8 | 0.541 |
| 4-3620 | 4-4180 | 0.665 | 263.9 | 64.3 | 33.56 | 1.201 | 87.4 | 0.453 | 1.830 | 8.4 | 200.0 | --- | 2.658 | -36.17 | 0.494 | 74.9 | 20.8 | -45.9 | 0.391 |
| 4-3620 | 4-4200 | 0.488 | 277.3 | 53.7 | 23.27 | 1.204 | 88.1 | 0.457 | 1.848 | 5.9 | 201.6 | --- | 2.692 | -26.16 | 0.496 | 73.7 | 18.0 | -40.9 | 0.320 |
| 4-3620 | 4-4220 | 0.390 | 285.8 | 44.5 | 17.25 | 1.206 | 89.0 | 0.461 | 1.865 | 3.2 | 203.1 | --- | 2.726 | -20.42 | 0.498 | 72.5 | 18.1 | -35.5 | 0.285 |
| 4-3620 | 4-4240 | 0.332 | 293.0 | 36.3 | 13.33 | 1.208 | 89.9 | 0.466 | 1.882 | 0.2 | 204.6 | --- | 2.760 | -16.79 | 0.501 | 71.4 | 19.7 | -30.9 | 0.267 |
| 4-3620 | 4-4260 | 0.297 | 299.9 | 29.1 | 10.57 | 1.210 | 90.9 | 0.471 | 1.899 | 357.2 | 566.0 | 1.005 | 2.794 | -14.32 | 0.504 | 70.3 | 22.2 | -27.0 | 0.258 |
| 4-3620 | 4-4280 | 0.276 | 306.6 | 22.7 | 8.51 | 1.212 | 91.9 | 0.476 | 1.916 | 354.1 | 567.3 | 1.003 | 2.828 | -12.55 | 0.507 | 69.2 | 25.2 | -23.9 | 0.254 |
| 4-3620 | 4-4300 | 0.266 | 313.2 | 17.1 | 6.88 | 1.213 | 92.9 | 0.482 | 1.932 | 350.9 | 568.6 | 1.001 | 2.863 | -11.22 | 0.510 | 68.2 | 28.4 | -21.4 | 0.252 |
| 4-3620 | 4-4320 | 0.262 | 319.6 | 12.3 | 5.56 | 1.215 | 94.0 | 0.488 | 1.948 | 347.7 | 569.9 | 0.998 | 2.898 | -10.21 | 0.514 | 67.1 | 31.9 | -19.4 | 0.253 |
| 4-3620 | 4-4340 | 0.264 | 325.7 | 8.4 | 4.45 | 1.217 | 95.1 | 0.494 | 1.964 | 344.5 | 571.2 | 0.993 | 2.934 | -9.42 | 0.518 | 66.1 | 35.5 | -17.7 | 0.255 |
| 4-3620 | 4-4360 | 0.271 | 331.6 | 5.2 | 3.49 | 1.218 | 96.3 | 0.501 | 1.979 | 341.2 | 572.4 | 0.987 | 2.970 | -8.79 | 0.523 | 65.0 | 39.3 | -16.3 | 0.258 |
| 4-3620 | 4-4380 | 0.281 | 337.1 | 2.8 | 2.65 | 1.220 | 97.4 | 0.508 | 1.994 | 337.8 | 573.6 | 0.980 | 3.008 | -8.28 | 0.527 | 64.0 | 43.2 | -15.1 | 0.262 |
| 4-3620 | 4-4400 | 0.294 | 342.3 | 0.9 | 1.89 | 1.222 | 98.6 | 0.516 | 2.009 | 334.4 | 574.7 | 0.972 | 3.046 | -7.88 | 0.532 | 63.0 | 47.2 | -14.1 | 0.267 |
| 4-3620 | 4-4420 | 0.310 | 347.2 | -0.5 | 1.19 | 1.223 | 99.9 | 0.525 | 2.023 | 330.9 | 575.8 | 0.961 | 3.085 | -7.56 | 0.538 | 61.9 | 51.3 | -13.2 | 0.272 |
| 4-3630 | 4-3730 | 0.606 | 239.8 | -18.0 | 1.25 | 1.341 | 64.3 | 0.850 | 5.347 | 56.3 | 111.7 | --- | --- | 7.77 | 0.858 | 139.1 | 9.0 | 6.7 | 0.648 |
| 4-3630 | 4-3750 | 0.537 | 235.4 | -19.1 | 0.27 | 1.265 | 65.3 | 0.696 | 2.604 | 61.5 | 123.3 | --- | --- | 7.26 | 0.732 | 133.3 | 8.5 | 7.6 | 0.510 |
| 4-3630 | 4-3770 | 0.496 | 232.2 | -20.3 | -0.59 | 1.220 | 66.1 | 0.611 | 2.017 | 65.5 | 138.6 | --- | --- | 6.89 | 0.648 | 127.4 | 7.4 | 8.6 | 0.412 |
| 4-3630 | 4-3790 | 0.469 | 230.0 | -21.7 | -1.37 | 1.193 | 66.7 | 0.562 | 1.781 | 68.0 | 142.4 | --- | --- | 6.64 | 0.591 | 121.7 | 5.5 | 9.8 | 0.341 |
| 4-3630 | 4-3810 | 0.450 | 228.7 | -23.3 | -2.10 | 1.177 | 67.3 | 0.531 | 1.667 | 69.2 | 149.7 | --- | --- | 6.48 | 0.552 | 116.3 | 2.8 | 11.1 | 0.290 |
| 4-3630 | 4-3830 | 0.435 | 228.0 | -25.1 | -2.79 | 1.167 | 68.0 | 0.510 | 1.608 | 69.3 | 155.9 | --- | --- | 6.40 | 0.526 | 111.3 | 359.5 | 12.5 | 0.253 |
| 4-3630 | 4-3850 | 0.422 | 227.9 | -27.1 | -3.47 | 1.163 | 68.7 | 0.496 | 1.579 | 68.5 | 161.1 | --- | --- | 6.40 | 0.508 | 106.8 | 355.8 | 13.8 | 0.228 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3630 | 4-3870 | 0.411 | 228.1 | -29.3 | -4.14 | 1.161 | 69.4 | 0.485 | 1.568 | 67.0 | 165.6 | --- | --- | 6.48 | 0.497 | 102.8 | 352.2 | 15.0 | 0.211 |
| 4-3630 | 4-3890 | 0.401 | 228.6 | -31.7 | -4.82 | 1.160 | 70.2 | 0.477 | 1.567 | 65.1 | 169.4 | --- | --- | 6.60 | 0.489 | 99.3 | 348.9 | 16.0 | 0.201 |
| 4-3630 | 4-3910 | 0.392 | 229.3 | -34.4 | -5.52 | 1.162 | 71.0 | 0.471 | 1.574 | 62.8 | 172.9 | --- | --- | 6.81 | 0.484 | 96.3 | 346.3 | 16.9 | 0.196 |
| 4-3630 | 4-3930 | 0.384 | 230.2 | -37.4 | -6.26 | 1.164 | 71.8 | 0.466 | 1.585 | 60.2 | 175.9 | --- | --- | 7.10 | 0.481 | 93.5 | 344.5 | 17.7 | 0.195 |
| 4-3630 | 4-3950 | 0.377 | 231.1 | -40.7 | -7.07 | 1.166 | 72.7 | 0.462 | 1.600 | 57.4 | 178.7 | --- | --- | 7.48 | 0.480 | 91.1 | 343.5 | 18.6 | 0.196 |
| 4-3630 | 4-3970 | 0.371 | 232.0 | -44.4 | -7.95 | 1.169 | 73.6 | 0.459 | 1.617 | 54.5 | 181.2 | --- | 2.359 | 7.98 | 0.479 | 89.0 | 343.4 | 19.6 | 0.198 |
| 4-3630 | 4-3990 | 0.368 | 232.8 | -48.5 | -8.96 | 1.172 | 74.4 | 0.457 | 1.635 | 51.5 | 183.5 | --- | 2.382 | 8.61 | 0.479 | 87.1 | 343.9 | 20.7 | 0.202 |
| 4-3630 | 4-4010 | 0.369 | 233.2 | -53.1 | -10.12 | 1.175 | 75.3 | 0.455 | 1.654 | 48.5 | 185.7 | --- | 2.407 | 9.43 | 0.479 | 85.3 | 345.1 | 22.1 | 0.208 |
| 4-3630 | 4-4030 | 0.373 | 233.1 | -58.2 | -11.52 | 1.178 | 76.2 | 0.454 | 1.674 | 45.4 | 187.7 | --- | 2.435 | 10.50 | 0.480 | 83.7 | 346.9 | 23.9 | 0.215 |
| 4-3630 | 4-4050 | 0.384 | 231.6 | -63.9 | -13.25 | 1.181 | 77.1 | 0.454 | 1.695 | 42.2 | 189.6 | --- | 2.463 | 11.91 | 0.481 | 82.2 | 349.2 | 26.1 | 0.223 |
| 4-3630 | 4-4070 | 0.405 | 226.8 | -70.0 | -15.49 | 1.184 | 78.0 | 0.454 | 1.715 | 39.1 | 191.4 | --- | 2.493 | 13.85 | 0.482 | 80.8 | 352.0 | 28.9 | 0.235 |
| 4-3630 | 4-4090 | 0.442 | 212.9 | -76.1 | -18.55 | 1.187 | 78.9 | 0.454 | 1.736 | 36.1 | 193.2 | --- | 2.524 | 16.63 | 0.483 | 79.5 | 355.6 | 32.5 | 0.253 |
| 4-3630 | 4-4110 | 0.506 | 176.4 | -79.3 | -23.04 | 1.190 | 79.8 | 0.455 | 1.756 | 33.1 | 194.9 | --- | 2.555 | 20.84 | 0.485 | 78.2 | 0.3 | 37.0 | 0.281 |
| 4-3630 | 4-4130 | 0.621 | 137.3 | -74.5 | -30.29 | 1.192 | 80.6 | 0.457 | 1.776 | 30.4 | 196.6 | --- | 2.587 | 27.81 | 0.487 | 77.0 | 6.9 | 42.1 | 0.330 |
| 4-3630 | 4-4150 | 0.842 | 124.0 | -62.8 | -43.54 | 1.195 | 81.3 | 0.459 | 1.796 | 28.0 | 198.2 | --- | 2.621 | 40.79 | 0.489 | 75.7 | 17.5 | 46.2 | 0.428 |
| 4-3630 | 4-4170 | 1.271 | 123.7 | -44.2 | -70.15 | 1.197 | 81.6 | 0.464 | 1.815 | 26.9 | 199.9 | --- | 2.657 | 67.13 | 0.491 | 74.3 | 33.0 | 43.8 | 0.629 |
| 4-3630 | 4-4210 | 0.784 | 250.5 | 66.4 | 40.41 | 1.202 | 86.0 | 0.460 | 1.853 | 12.8 | 202.1 | --- | 2.705 | -43.95 | 0.496 | 73.2 | 30.9 | -46.8 | 0.452 |
| 4-3630 | 4-4230 | 0.536 | 272.9 | 55.3 | 25.93 | 1.204 | 86.6 | 0.464 | 1.871 | 10.6 | 203.6 | --- | 2.740 | -29.73 | 0.498 | 72.1 | 25.5 | -42.5 | 0.348 |
| 4-3630 | 4-4250 | 0.407 | 284.1 | 45.0 | 18.15 | 1.206 | 87.5 | 0.468 | 1.889 | 7.9 | 205.1 | --- | 2.773 | -22.21 | 0.502 | 71.0 | 24.5 | -36.8 | 0.300 |
| 4-3630 | 4-4270 | 0.335 | 292.6 | 35.9 | 13.40 | 1.208 | 88.4 | 0.472 | 1.906 | 5.0 | 206.5 | --- | 2.806 | -17.73 | 0.505 | 70.0 | 25.7 | -31.6 | 0.276 |
| 4-3630 | 4-4290 | 0.292 | 300.3 | 27.9 | 10.20 | 1.210 | 89.4 | 0.476 | 1.923 | 2.0 | 207.8 | --- | 2.839 | -14.80 | 0.508 | 69.0 | 28.1 | -27.4 | 0.264 |
| 4-3630 | 4-4310 | 0.268 | 307.6 | 20.9 | 7.89 | 1.212 | 90.4 | 0.481 | 1.940 | 358.9 | 569.1 | 1.008 | 2.872 | -12.76 | 0.512 | 68.0 | 31.0 | -24.0 | 0.258 |
| 4-3630 | 4-4330 | 0.254 | 314.8 | 14.9 | 6.13 | 1.214 | 91.4 | 0.485 | 1.956 | 355.7 | 570.5 | 1.007 | 2.906 | -11.27 | 0.516 | 67.1 | 34.3 | -21.4 | 0.255 |
| 4-3630 | 4-4350 | 0.249 | 321.8 | 9.9 | 4.72 | 1.216 | 92.5 | 0.491 | 1.972 | 352.5 | 571.7 | 1.005 | 2.940 | -10.14 | 0.521 | 66.1 | 37.8 | -19.2 | 0.255 |
| 4-3630 | 4-4370 | 0.250 | 328.5 | 5.9 | 3.55 | 1.217 | 93.6 | 0.496 | 1.988 | 349.2 | 573.0 | 1.002 | 2.974 | -9.27 | 0.525 | 65.2 | 41.5 | -17.4 | 0.256 |
| 4-3630 | 4-4390 | 0.255 | 335.0 | 2.8 | 2.56 | 1.219 | 94.7 | 0.502 | 2.003 | 345.9 | 574.2 | 0.998 | 3.009 | -8.58 | 0.530 | 64.2 | 45.3 | -16.0 | 0.259 |
| 4-3630 | 4-4410 | 0.264 | 341.1 | 0.5 | 1.70 | 1.220 | 95.9 | 0.508 | 2.018 | 342.5 | 575.4 | 0.992 | 3.045 | -8.03 | 0.535 | 63.3 | 49.3 | -14.8 | 0.262 |
| 4-3630 | 4-4430 | 0.276 | 346.8 | -1.2 | 0.94 | 1.222 | 97.1 | 0.515 | 2.033 | 339.1 | 576.5 | 0.985 | 3.081 | -7.59 | 0.541 | 62.4 | 53.3 | -13.7 | 0.267 |
| 4-3640 | 4-3740 | 0.684 | 237.5 | -18.7 | 0.84 | 1.297 | 57.9 | 0.795 | 3.355 | 73.9 | 122.9 | --- | --- | 7.66 | 0.790 | 139.6 | 6.7 | 6.4 | 0.613 |
| 4-3640 | 4-3760 | 0.616 | 234.5 | -19.8 | -0.19 | 1.232 | 59.5 | 0.684 | 2.159 | 78.4 | 133.7 | --- | --- | 7.02 | 0.674 | 133.2 | 5.6 | 7.1 | 0.485 |
| 4-3640 | 4-3780 | 0.573 | 232.5 | -21.0 | -1.07 | 1.194 | 60.7 | 0.622 | 1.803 | 81.2 | 142.8 | --- | --- | 6.56 | 0.599 | 126.7 | 3.8 | 8.0 | 0.395 |
| 4-3640 | 4-3800 | 0.544 | 231.4 | -22.3 | -1.84 | 1.172 | 61.8 | 0.583 | 1.650 | 82.4 | 150.2 | --- | --- | 6.23 | 0.549 | 120.4 | 1.3 | 8.9 | 0.330 |
| 4-3640 | 4-3820 | 0.521 | 231.0 | -23.8 | -2.53 | 1.160 | 62.8 | 0.558 | 1.575 | 82.4 | 156.3 | --- | --- | 6.00 | 0.517 | 114.6 | 358.1 | 9.9 | 0.285 |
| 4-3640 | 4-3840 | 0.503 | 231.0 | -25.4 | -3.18 | 1.153 | 63.7 | 0.540 | 1.540 | 81.5 | 161.4 | --- | --- | 5.88 | 0.496 | 109.4 | 354.6 | 10.9 | 0.253 |
| 4-3640 | 4-3860 | 0.487 | 231.5 | -27.1 | -3.79 | 1.151 | 64.6 | 0.526 | 1.526 | 79.8 | 165.8 | --- | --- | 5.78 | 0.482 | 104.7 | 351.1 | 11.7 | 0.232 |
| 4-3640 | 4-3880 | 0.472 | 232.2 | -29.0 | -4.39 | 1.151 | 65.6 | 0.515 | 1.525 | 77.7 | 169.6 | --- | --- | 5.77 | 0.475 | 100.7 | 347.9 | 12.4 | 0.218 |
| 4-3640 | 4-3900 | 0.459 | 233.1 | -31.0 | -4.97 | 1.152 | 66.6 | 0.506 | 1.532 | 75.3 | 172.9 | --- | --- | 5.82 | 0.470 | 97.2 | 345.4 | 13.0 | 0.210 |
| 4-3640 | 4-3920 | 0.446 | 234.2 | -33.2 | -5.57 | 1.154 | 67.5 | 0.498 | 1.545 | 72.5 | 175.8 | --- | --- | 5.93 | 0.468 | 94.1 | 343.5 | 13.5 | 0.206 |
| 4-3640 | 4-3940 | 0.434 | 235.4 | -35.5 | -6.18 | 1.157 | 68.5 | 0.492 | 1.561 | 69.6 | 178.5 | --- | --- | 6.10 | 0.467 | 91.5 | 342.5 | 14.1 | 0.204 |
| 4-3640 | 4-3960 | 0.424 | 236.7 | -38.1 | -6.82 | 1.161 | 69.5 | 0.487 | 1.580 | 66.6 | 180.9 | --- | 2.348 | 6.33 | 0.468 | 89.1 | 342.2 | 14.6 | 0.205 |
| 4-3640 | 4-3980 | 0.414 | 238.1 | -41.0 | -7.51 | 1.164 | 70.5 | 0.482 | 1.600 | 63.4 | 183.1 | --- | 2.371 | 6.65 | 0.469 | 87.1 | 342.7 | 15.2 | 0.206 |
| 4-3640 | 4-4000 | 0.406 | 239.5 | -44.1 | -8.26 | 1.168 | 71.5 | 0.478 | 1.621 | 60.2 | 185.2 | --- | 2.397 | 7.05 | 0.470 | 85.2 | 343.7 | 16.0 | 0.209 |
| 4-3640 | 4-4020 | 0.399 | 240.9 | -47.6 | -9.11 | 1.171 | 72.4 | 0.475 | 1.643 | 56.9 | 187.2 | --- | 2.424 | 7.57 | 0.472 | 83.6 | 345.2 | 16.9 | 0.212 |
| 4-3640 | 4-4040 | 0.395 | 242.2 | -51.4 | -10.07 | 1.175 | 73.4 | 0.473 | 1.665 | 53.7 | 189.0 | --- | 2.453 | 8.22 | 0.473 | 82.1 | 347.1 | 18.1 | 0.216 |
| 4-3640 | 4-4060 | 0.395 | 243.3 | -55.8 | -11.21 | 1.178 | 74.4 | 0.471 | 1.688 | 50.4 | 190.8 | --- | 2.482 | 9.07 | 0.475 | 80.7 | 349.5 | 19.6 | 0.220 |
| 4-3640 | 4-4080 | 0.399 | 243.9 | -60.7 | -12.60 | 1.181 | 75.4 | 0.470 | 1.710 | 47.1 | 192.5 | --- | 2.513 | 10.18 | 0.477 | 79.4 | 352.2 | 21.5 | 0.226 |
| 4-3640 | 4-4100 | 0.410 | 243.2 | -66.2 | -14.36 | 1.184 | 76.3 | 0.469 | 1.732 | 43.9 | 194.1 | --- | 2.544 | 11.67 | 0.479 | 78.2 | 355.3 | 23.9 | 0.234 |
| 4-3640 | 4-4120 | 0.432 | 239.3 | -72.3 | -16.70 | 1.187 | 77.3 | 0.468 | 1.753 | 40.7 | 195.7 | --- | 2.575 | 13.74 | 0.482 | 77.0 | 358.8 | 27.0 | 0.246 |
| 4-3640 | 4-4140 | 0.472 | 224.5 | -78.6 | -19.99 | 1.190 | 78.2 | 0.469 | 1.775 | 37.6 | 197.2 | --- | 2.608 | 16.78 | 0.484 | 75.9 | 3.0 | 31.0 | 0.263 |
| 4-3640 | 4-4160 | 0.544 | 176.0 | -81.4 | -25.04 | 1.193 | 79.1 | 0.469 | 1.796 | 34.6 | 198.8 | --- | 2.638 | 21.50 | 0.487 | 74.8 | 8.4 | 36.2 | 0.293 |
| 4-3640 | 4-4180 | 0.682 | 136.1 | -74.3 | -33.72 | 1.196 | 79.9 | 0.471 | 1.816 | 31.8 | 200.3 | --- | 2.671 | 30.03 | 0.489 | 73.7 | 16.4 | 42.1 | 0.351 |
| 4-3640 | 4-4200 | 0.970 | 128.8 | -59.6 | -51.09 | 1.198 | 80.6 | 0.473 | 1.836 | 29.7 | 201.8 | --- | 2.705 | 47.16 | 0.492 | 72.6 | 29.9 | 46.0 | 0.479 |
| 4-3640 | 4-4240 | 0.976 | 229.7 | 66.3 | 51.62 | 1.203 | 84.6 | 0.469 | 1.875 | 17.1 | 204.0 | --- | 2.754 | -56.02 | 0.499 | 71.5 | 42.9 | -46.0 | 0.545 |
| 4-3640 | 4-4260 | 0.604 | 267.1 | 56.7 | 29.70 | 1.205 | 85.1 | 0.473 | 1.893 | 15.3 | 205.5 | --- | 2.788 | -34.39 | 0.502 | 70.4 | 33.9 | -44.1 | 0.384 |
| 4-3640 | 4-4280 | 0.428 | 282.8 | 45.1 | 19.17 | 1.207 | 85.9 | 0.476 | 1.912 | 12.7 | 206.9 | --- | 2.821 | -24.04 | 0.506 | 69.5 | 31.1 | -37.8 | 0.315 |
| 4-3640 | 4-4300 | 0.338 | 292.8 | 34.5 | 13.32 | 1.209 | 86.8 | 0.479 | 1.929 | 9.8 | 208.3 | --- | 2.853 | -18.42 | 0.510 | 68.6 | 31.8 | -31.9 | 0.283 |
| 4-3640 | 4-4320 | 0.288 | 301.2 | 25.4 | 9.62 | 1.211 | 87.8 | 0.482 | 1.946 | 6.7 | 209.6 | --- | 2.885 | -14.95 | 0.514 | 67.7 | 33.9 | -27.2 | 0.268 |
| 4-3640 | 4-4340 | 0.261 | 309.1 | 17.6 | 7.06 | 1.213 | 88.8 | 0.486 | 1.963 | 3.6 | 211.0 | --- | 2.917 | -12.63 | 0.518 | 66.8 | 36.8 | -23.5 | 0.261 |
| 4-3640 | 4-4360 | 0.246 | 316.7 | 11.1 | 5.16 | 1.214 | 89.9 | 0.490 | 1.980 | 0.4 | 212.3 | --- | 2.949 | -10.99 | 0.523 | 66.0 | 40.1 | -20.7 | 0.258 |
| 4-3640 | 4-4380 | 0.239 | 324.2 | 6.0 | 3.69 | 1.216 | 90.9 | 0.494 | 1.996 | 357.2 | 573.5 | 1.010 | 2.982 | -9.77 | 0.528 | 65.1 | 43.7 | -18.4 | 0.257 |
| 4-3640 | 4-4400 | 0.239 | 331.4 | 2.0 | 2.50 | 1.218 | 92.0 | 0.499 | 2.012 | 353.9 | 574.8 | 1.008 | 3.015 | -8.84 | 0.533 | 64.3 | 47.4 | -16.6 | 0.258 |
| 4-3640 | 4-4420 | 0.243 | 338.4 | -0.9 | 1.51 | 1.219 | 93.2 | 0.504 | 2.027 | 350.6 | 576.0 | 1.006 | 3.048 | -8.11 | 0.538 | 63.4 | 51.3 | -15.1 | 0.260 |
| 4-3640 | 4-4440 | 0.251 | 345.0 | -2.9 | 0.65 | 1.221 | 94.3 | 0.509 | 2.042 | 347.1 | 577.2 | 1.002 | 3.082 | -7.54 | 0.544 | 62.6 | 55.4 | -13.9 | 0.263 |
| 4-3650 | 4-3750 | 0.775 | 237.1 | -19.6 | 0.35 | 1.256 | 51.3 | 0.780 | 2.509 | 92.1 | 134.6 | --- | --- | 7.39 | 0.722 | 140.8 | 3.5 | 5.7 | 0.591 |
| 4-3650 | 4-3770 | 0.704 | 235.4 | -20.7 | -0.73 | 1.200 | 53.4 | 0.700 | 1.864 | 95.0 | 143.8 | --- | --- | 6.63 | 0.816 | 133.5 | 1.8 | 6.3 | 0.471 |
| 4-3650 | 4-3790 | 0.658 | 234.5 | -21.9 | -1.61 | 1.169 | 55.1 | 0.652 | 1.639 | 96.1 | 151.1 | --- | --- | 6.08 | 0.548 | 126.3 | 359.5 | 6.9 | 0.387 |
| 4-3650 | 4-3810 | 0.624 | 234.2 | -23.1 | -2.36 | 1.152 | 56.6 | 0.620 | 1.540 | 95.9 | 157.1 | --- | --- | 5.69 | 0.505 | 119.4 | 356.6 | 7.6 | 0.329 |
| 4-3650 | 4-3830 | 0.597 | 234.5 | -24.5 | -3.02 | 1.143 | 58.0 | 0.597 | 1.495 | 94.7 | 162.1 | --- | --- | 5.40 | 0.479 | 113.0 | 353.3 | 8.3 | 0.289 |
| 4-3650 | 4-3850 | 0.575 | 235.1 | -25.9 | -3.61 | 1.140 | 59.2 | 0.578 | 1.477 | 92.9 | 166.2 | --- | --- | 5.20 | 0.463 | 107.4 | 349.9 | 8.8 | 0.261 |
| 4-3650 | 4-3870 | 0.555 | 236.0 | -27.4 | -4.16 | 1.139 | 60.5 | 0.564 | 1.475 | 90.6 | 169.8 | --- | --- | 5.07 | 0.455 | 102.6 | 346.9 | 9.3 | 0.243 |
| 4-3650 | 4-3890 | 0.537 | 237.1 | -29.0 | -4.68 | 1.141 | 61.6 | 0.551 | 1.483 | 87.9 | 173.0 | --- | --- | 5.00 | 0.451 | 98.4 | 344.4 | 9.7 | 0.231 |
| 4-3650 | 4-3910 | 0.520 | 238.3 | -30.7 | -5.18 | 1.144 | 62.8 | 0.540 | 1.497 | 85.0 | 175.8 | --- | --- | 4.98 | 0.450 | 94.9 | 342.6 | 10.0 | 0.224 |
| 4-3650 | 4-3930 | 0.504 | 239.7 | -32.4 | -5.68 | 1.147 | 63.9 | 0.531 | 1.515 | 81.9 | 178.4 | --- | --- | 5.02 | 0.450 | 91.8 | 341.5 | 10.3 | 0.220 |
| 4-3650 | 4-3950 | 0.490 | 241.2 | -34.3 | -6.17 | 1.151 | 65.1 | 0.523 | 1.536 | 78.7 | 180.7 | --- | 2.338 | 5.10 | 0.452 | 89.2 | 341.2 | 10.6 | 0.218 |
| 4-3650 | 4-3970 | 0.475 | 242.8 | -36.3 | -6.68 | 1.155 | 66.2 | 0.516 | 1.558 | 75.4 | 182.9 | --- | 2.361 | 5.23 | 0.454 | 87.0 | 341.6 | 10.9 | 0.218 |
| 4-3650 | 4-3990 | 0.462 | 244.4 | -38.5 | -7.21 | 1.159 | 67.3 | 0.509 | 1.582 | 72.0 | 184.9 | --- | 2.387 | 5.41 | 0.467 | 85.0 | 342.5 | 11.3 | 0.218 |
| 4-3650 | 4-4010 | 0.450 | 246.2 | -40.9 | -7.78 | 1.163 | 68.4 | 0.504 | 1.606 | 68.6 | 186.8 | --- | 2.414 | 5.65 | 0.460 | 83.2 | 343.9 | 11.8 | 0.219 |
| 4-3650 | 4-4030 | 0.439 | 248.0 | -43.5 | -8.39 | 1.167 | 69.4 | 0.499 | 1.630 | 65.2 | 188.5 | --- | 2.443 | 5.97 | 0.463 | 81.7 | 345.7 | 12.4 | 0.221 |
| 4-3650 | 4-4050 | 0.430 | 249.9 | -46.3 | -9.07 | 1.171 | 70.5 | 0.495 | 1.654 | 61.8 | 190.2 | --- | 2.473 | 6.36 | 0.466 | 80.3 | 347.9 | 13.2 | 0.223 |
| 4-3650 | 4-4070 | 0.422 | 251.8 | -49.4 | -9.84 | 1.175 | 71.6 | 0.492 | 1.678 | 58.5 | 191.9 | --- | 2.503 | 6.87 | 0.469 | 79.0 | 350.3 | 14.1 | 0.225 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3650 | 4-4090 | 0.417 | 253.8 | -53.0 | -10.74 | 1.178 | 72.6 | 0.489 | 1.702 | 55.1 | 193.5 | --- | 2.534 | 7.51 | 0.472 | 77.8 | 353.0 | 15.3 | 0.228 |
| 4-3650 | 4-4110 | 0.415 | 255.6 | -57.0 | -11.81 | 1.182 | 73.6 | 0.487 | 1.726 | 51.8 | 195.0 | --- | 2.565 | 8.34 | 0.475 | 76.6 | 356.0 | 16.8 | 0.231 |
| 4-3650 | 4-4130 | 0.418 | 257.3 | -61.5 | -13.14 | 1.185 | 74.6 | 0.485 | 1.749 | 48.5 | 196.5 | --- | 2.597 | 9.44 | 0.478 | 75.6 | 359.2 | 18.8 | 0.236 |
| 4-3650 | 4-4150 | 0.428 | 258.2 | -66.8 | -14.86 | 1.188 | 75.6 | 0.484 | 1.771 | 45.2 | 197.9 | --- | 2.628 | 10.94 | 0.481 | 74.6 | 2.7 | 21.3 | 0.242 |
| 4-3650 | 4-4170 | 0.449 | 257.0 | -73.0 | -17.20 | 1.191 | 76.6 | 0.483 | 1.794 | 42.0 | 199.4 | --- | 2.659 | 13.07 | 0.484 | 73.6 | 6.6 | 24.6 | 0.252 |
| 4-3650 | 4-4190 | 0.489 | 246.7 | -79.9 | -20.64 | 1.194 | 77.6 | 0.482 | 1.815 | 38.8 | 200.8 | --- | 2.691 | 16.29 | 0.487 | 72.7 | 11.1 | 29.1 | 0.269 |
| 4-3650 | 4-4210 | 0.569 | 183.4 | -84.1 | -26.20 | 1.196 | 78.5 | 0.483 | 1.836 | 35.8 | 202.2 | --- | 2.722 | 21.65 | 0.491 | 71.8 | 17.0 | 35.0 | 0.300 |
| 4-3650 | 4-4230 | 0.735 | 136.9 | -74.6 | -36.66 | 1.199 | 79.4 | 0.484 | 1.857 | 33.1 | 203.6 | --- | 2.754 | 31.90 | 0.494 | 70.8 | 26.4 | 42.0 | 0.368 |
| 4-3650 | 4-4250 | 1.123 | 135.7 | -56.0 | -60.42 | 1.201 | 80.0 | 0.486 | 1.877 | 31.1 | 205.0 | --- | 2.786 | 55.46 | 0.498 | 69.8 | 43.6 | 45.2 | 0.543 |
| 4-3650 | 4-4290 | 0.712 | 258.4 | 58.0 | 35.79 | 1.206 | 83.6 | 0.482 | 1.915 | 19.8 | 207.4 | --- | 2.837 | -41.15 | 0.506 | 68.8 | 43.9 | -45.4 | 0.436 |
| 4-3650 | 4-4310 | 0.455 | 281.7 | 44.8 | 20.45 | 1.208 | 84.4 | 0.484 | 1.933 | 17.3 | 208.8 | --- | 2.869 | -26.01 | 0.510 | 68.0 | 38.0 | -38.7 | 0.332 |
| 4-3650 | 4-4330 | 0.341 | 293.9 | 32.1 | 13.02 | 1.210 | 85.3 | 0.487 | 1.951 | 14.5 | 210.1 | --- | 2.901 | -18.78 | 0.515 | 67.1 | 37.7 | -31.8 | 0.290 |
| 4-3650 | 4-4350 | 0.285 | 303.1 | 21.3 | 8.73 | 1.212 | 86.3 | 0.489 | 1.969 | 11.4 | 211.4 | --- | 2.931 | -14.69 | 0.520 | 66.4 | 39.7 | -26.4 | 0.272 |
| 4-3650 | 4-4370 | 0.255 | 311.4 | 12.6 | 5.94 | 1.213 | 87.3 | 0.492 | 1.986 | 8.3 | 212.7 | --- | 2.962 | -12.10 | 0.525 | 65.6 | 42.6 | -22.4 | 0.263 |
| 4-3650 | 4-4390 | 0.240 | 319.4 | 5.7 | 3.95 | 1.215 | 88.3 | 0.495 | 2.002 | 5.1 | 214.0 | --- | 2.993 | -10.33 | 0.530 | 64.8 | 46.0 | -19.4 | 0.259 |
| 4-3650 | 4-4410 | 0.234 | 327.1 | 0.5 | 2.46 | 1.217 | 89.4 | 0.499 | 2.018 | 1.8 | 215.3 | --- | 3.024 | -9.05 | 0.535 | 64.1 | 49.6 | -17.0 | 0.258 |
| 4-3650 | 4-4430 | 0.233 | 334.7 | -3.3 | 1.28 | 1.218 | 90.5 | 0.502 | 2.034 | 358.5 | 576.6 | 1.012 | 3.056 | -8.10 | 0.541 | 63.4 | 53.5 | -15.2 | 0.259 |
| 4-3650 | 4-4450 | 0.236 | 342.0 | -5.9 | 0.31 | 1.220 | 91.7 | 0.507 | 2.049 | 355.1 | 577.8 | 1.011 | 3.088 | -7.36 | 0.547 | 62.6 | 57.4 | -13.8 | 0.261 |
| 4-3660 | 4-3760 | 0.875 | 238.3 | -20.5 | -0.27 | 1.219 | 44.2 | 0.799 | 2.053 | 109.5 | 145.6 | --- | --- | 6.92 | 0.656 | 142.9 | 359.9 | 4.7 | 0.584 |
| 4-3660 | 4-3780 | 0.799 | 237.6 | -21.6 | -1.39 | 1.170 | 47.1 | 0.738 | 1.659 | 110.2 | 152.6 | --- | --- | 6.04 | 0.557 | 134.6 | 357.8 | 5.1 | 0.470 |
| 4-3660 | 4-3800 | 0.747 | 237.6 | -22.8 | -2.27 | 1.145 | 49.4 | 0.698 | 1.512 | 109.7 | 158.2 | --- | --- | 5.42 | 0.496 | 126.3 | 355.1 | 5.5 | 0.392 |
| 4-3660 | 4-3820 | 0.708 | 238.1 | -24.0 | -2.98 | 1.132 | 51.3 | 0.668 | 1.449 | 108.2 | 162.9 | --- | --- | 4.98 | 0.460 | 118.5 | 352.0 | 6.0 | 0.338 |
| 4-3660 | 4-3840 | 0.677 | 238.9 | -25.2 | -3.59 | 1.127 | 53.0 | 0.644 | 1.424 | 106.0 | 166.8 | --- | --- | 4.66 | 0.439 | 111.5 | 348.9 | 6.3 | 0.301 |
| 4-3660 | 4-3860 | 0.650 | 239.9 | -26.5 | -4.12 | 1.126 | 54.6 | 0.624 | 1.420 | 103.4 | 170.2 | --- | --- | 4.42 | 0.429 | 105.4 | 346.0 | 6.6 | 0.277 |
| 4-3660 | 4-3880 | 0.627 | 241.2 | -27.8 | -4.59 | 1.128 | 56.1 | 0.607 | 1.428 | 100.5 | 173.2 | --- | --- | 4.26 | 0.425 | 100.3 | 343.6 | 6.9 | 0.260 |
| 4-3660 | 4-3900 | 0.605 | 242.6 | -29.1 | -5.03 | 1.131 | 57.5 | 0.592 | 1.443 | 97.4 | 175.9 | --- | --- | 4.15 | 0.425 | 96.0 | 341.8 | 7.0 | 0.249 |
| 4-3660 | 4-3920 | 0.585 | 244.1 | -30.5 | -5.45 | 1.135 | 58.9 | 0.579 | 1.462 | 94.2 | 178.3 | --- | --- | 4.09 | 0.427 | 92.4 | 340.8 | 7.2 | 0.242 |
| 4-3660 | 4-3940 | 0.566 | 245.7 | -32.0 | -5.85 | 1.140 | 60.2 | 0.568 | 1.485 | 90.8 | 180.5 | --- | 2.328 | 4.06 | 0.431 | 89.3 | 340.4 | 7.4 | 0.238 |
| 4-3660 | 4-3960 | 0.548 | 247.4 | -33.5 | -6.24 | 1.145 | 61.5 | 0.558 | 1.510 | 87.3 | 182.6 | --- | 2.351 | 4.08 | 0.435 | 86.8 | 340.7 | 7.5 | 0.236 |
| 4-3660 | 4-3980 | 0.531 | 249.2 | -35.0 | -6.63 | 1.149 | 62.8 | 0.548 | 1.535 | 83.9 | 184.5 | --- | 2.377 | 4.14 | 0.439 | 84.6 | 341.5 | 7.7 | 0.234 |
| 4-3660 | 4-4000 | 0.515 | 251.1 | -36.7 | -7.03 | 1.154 | 64.0 | 0.540 | 1.561 | 80.3 | 186.3 | --- | 2.405 | 4.23 | 0.444 | 82.7 | 342.9 | 8.0 | 0.234 |
| 4-3660 | 4-4020 | 0.500 | 253.0 | -38.5 | -7.45 | 1.159 | 65.2 | 0.533 | 1.588 | 76.8 | 188.0 | --- | 2.434 | 4.36 | 0.448 | 81.0 | 344.6 | 8.3 | 0.234 |
| 4-3660 | 4-4040 | 0.486 | 255.0 | -40.3 | -7.88 | 1.163 | 66.3 | 0.526 | 1.614 | 73.3 | 189.7 | --- | 2.464 | 4.54 | 0.453 | 79.6 | 346.6 | 8.7 | 0.234 |
| 4-3660 | 4-4060 | 0.472 | 257.1 | -42.4 | -8.35 | 1.167 | 67.5 | 0.521 | 1.641 | 69.8 | 191.3 | --- | 2.495 | 4.76 | 0.457 | 78.2 | 349.0 | 9.1 | 0.234 |
| 4-3660 | 4-4080 | 0.460 | 259.3 | -44.6 | -8.87 | 1.172 | 68.6 | 0.516 | 1.667 | 66.4 | 192.8 | --- | 2.526 | 5.05 | 0.461 | 77.1 | 351.6 | 9.7 | 0.235 |
| 4-3660 | 4-4100 | 0.449 | 261.6 | -47.0 | -9.45 | 1.175 | 69.7 | 0.511 | 1.692 | 62.9 | 194.3 | --- | 2.558 | 5.42 | 0.465 | 76.0 | 354.4 | 10.4 | 0.236 |
| 4-3660 | 4-4120 | 0.440 | 264.0 | -49.8 | -10.12 | 1.179 | 70.8 | 0.508 | 1.717 | 59.5 | 195.7 | --- | 2.589 | 5.88 | 0.469 | 74.9 | 357.3 | 11.3 | 0.237 |
| 4-3660 | 4-4140 | 0.433 | 266.6 | -52.8 | -10.90 | 1.183 | 71.9 | 0.504 | 1.742 | 56.1 | 197.2 | --- | 2.620 | 6.47 | 0.473 | 74.0 | 0.4 | 12.4 | 0.238 |
| 4-3660 | 4-4160 | 0.429 | 269.2 | -56.3 | -11.86 | 1.186 | 73.0 | 0.502 | 1.766 | 52.8 | 198.5 | --- | 2.652 | 7.24 | 0.477 | 73.1 | 3.7 | 13.8 | 0.240 |
| 4-3660 | 4-4180 | 0.429 | 272.0 | -60.4 | -13.06 | 1.189 | 74.0 | 0.499 | 1.789 | 49.5 | 199.9 | --- | 2.683 | 8.26 | 0.481 | 72.2 | 7.2 | 15.7 | 0.243 |
| 4-3660 | 4-4200 | 0.436 | 274.7 | -65.3 | -14.66 | 1.192 | 75.0 | 0.498 | 1.812 | 46.2 | 201.3 | --- | 2.714 | 9.68 | 0.485 | 71.4 | 10.9 | 18.1 | 0.248 |
| 4-3660 | 4-4220 | 0.455 | 276.9 | -71.3 | -16.91 | 1.195 | 76.1 | 0.496 | 1.834 | 43.0 | 202.6 | --- | 2.744 | 11.76 | 0.489 | 70.6 | 14.9 | 21.5 | 0.256 |
| 4-3660 | 4-4240 | 0.494 | 276.0 | -78.7 | -20.36 | 1.197 | 77.0 | 0.496 | 1.855 | 39.8 | 204.0 | --- | 2.775 | 15.04 | 0.493 | 69.8 | 19.5 | 26.3 | 0.271 |
| 4-3660 | 4-4260 | 0.578 | 221.0 | -87.0 | -26.37 | 1.200 | 78.0 | 0.495 | 1.876 | 36.8 | 205.3 | --- | 2.806 | 20.89 | 0.497 | 69.0 | 25.7 | 33.2 | 0.302 |
| 4-3660 | 4-4280 | 0.782 | 138.7 | -75.6 | -39.22 | 1.202 | 78.9 | 0.496 | 1.897 | 34.1 | 206.7 | --- | 2.837 | 33.57 | 0.502 | 68.2 | 36.7 | 42.0 | 0.385 |
| 4-3660 | 4-4300 | 1.342 | 145.4 | -50.3 | -74.66 | 1.204 | 79.3 | 0.498 | 1.916 | 32.4 | 208.1 | --- | 2.871 | 68.85 | 0.506 | 67.3 | 59.4 | 42.7 | 0.642 |
| 4-3660 | 4-4320 | 0.917 | 242.2 | 58.2 | 47.75 | 1.207 | 82.1 | 0.491 | 1.935 | 24.1 | 209.2 | --- | 2.886 | -53.72 | 0.511 | 67.3 | 57.1 | -45.5 | 0.533 |
| 4-3660 | 4-4340 | 0.492 | 280.8 | 44.7 | 22.26 | 1.209 | 82.8 | 0.493 | 1.954 | 22.0 | 210.5 | --- | 2.918 | -28.39 | 0.516 | 66.4 | 45.3 | -39.7 | 0.352 |
| 4-3660 | 4-4360 | 0.343 | 296.3 | 28.6 | 12.40 | 1.211 | 83.7 | 0.495 | 1.972 | 19.1 | 211.9 | --- | 2.949 | -18.69 | 0.521 | 65.7 | 43.6 | -31.1 | 0.295 |
| 4-3660 | 4-4380 | 0.282 | 306.5 | 15.5 | 7.43 | 1.212 | 84.7 | 0.497 | 1.990 | 16.0 | 213.2 | --- | 2.978 | -13.89 | 0.526 | 65.0 | 45.4 | -24.8 | 0.273 |
| 4-3660 | 4-4400 | 0.253 | 315.1 | 5.6 | 4.44 | 1.214 | 85.7 | 0.499 | 2.007 | 12.8 | 214.5 | --- | 3.008 | -11.07 | 0.532 | 64.4 | 48.4 | -20.4 | 0.264 |
| 4-3660 | 4-4420 | 0.240 | 323.1 | -1.5 | 2.43 | 1.216 | 86.8 | 0.501 | 2.024 | 9.6 | 215.8 | --- | 3.038 | -9.24 | 0.538 | 63.7 | 51.8 | -17.3 | 0.261 |
| 4-3660 | 4-4440 | 0.234 | 330.9 | -6.5 | 0.98 | 1.217 | 87.9 | 0.504 | 2.040 | 6.3 | 217.1 | --- | 3.068 | -7.96 | 0.544 | 63.1 | 55.6 | -14.9 | 0.260 |
| 4-3660 | 4-4460 | 0.233 | 338.6 | -9.8 | -0.13 | 1.219 | 89.0 | 0.507 | 2.056 | 2.9 | 218.3 | --- | 3.098 | -7.02 | 0.550 | 62.4 | 59.5 | -13.2 | 0.261 |
| 4-3670 | 4-3770 | 0.980 | 240.7 | -21.5 | -1.11 | 1.186 | 36.9 | 0.840 | 1.778 | 125.2 | 154.8 | --- | --- | 6.14 | 0.594 | 146.1 | 356.3 | 3.4 | 0.592 |
| 4-3670 | 4-3790 | 0.898 | 240.9 | -22.7 | -2.26 | 1.144 | 40.5 | 0.790 | 1.512 | 123.9 | 159.8 | --- | --- | 5.18 | 0.499 | 136.6 | 353.9 | 3.7 | 0.482 |
| 4-3670 | 4-3810 | 0.839 | 241.6 | -23.8 | -3.09 | 1.123 | 43.3 | 0.752 | 1.412 | 121.8 | 163.9 | --- | --- | 4.53 | 0.443 | 127.0 | 351.1 | 3.9 | 0.408 |
| 4-3670 | 4-3830 | 0.795 | 242.7 | -24.9 | -3.74 | 1.114 | 45.8 | 0.722 | 1.373 | 119.2 | 167.4 | --- | --- | 4.07 | 0.413 | 118.0 | 348.2 | 4.2 | 0.357 |
| 4-3670 | 4-3850 | 0.759 | 243.9 | -26.0 | -4.27 | 1.112 | 47.9 | 0.697 | 1.363 | 116.3 | 170.5 | --- | --- | 3.74 | 0.398 | 110.1 | 345.5 | 4.3 | 0.322 |
| 4-3670 | 4-3870 | 0.728 | 245.4 | -27.1 | -4.72 | 1.113 | 49.8 | 0.674 | 1.369 | 113.1 | 173.3 | --- | --- | 3.50 | 0.393 | 103.4 | 343.2 | 4.5 | 0.299 |
| 4-3670 | 4-3890 | 0.700 | 247.0 | -28.2 | -5.11 | 1.117 | 51.6 | 0.655 | 1.384 | 109.8 | 175.8 | --- | --- | 3.32 | 0.394 | 97.9 | 341.4 | 4.6 | 0.283 |
| 4-3670 | 4-3910 | 0.676 | 248.6 | -29.3 | -5.46 | 1.122 | 53.3 | 0.638 | 1.405 | 106.3 | 178.1 | --- | --- | 3.19 | 0.398 | 93.3 | 340.3 | 4.7 | 0.272 |
| 4-3670 | 4-3930 | 0.652 | 250.4 | -30.5 | -5.78 | 1.127 | 54.9 | 0.622 | 1.429 | 102.8 | 180.2 | --- | 2.318 | 3.11 | 0.404 | 89.6 | 339.9 | 4.7 | 0.265 |
| 4-3670 | 4-3950 | 0.631 | 252.2 | -31.6 | -6.08 | 1.133 | 56.4 | 0.609 | 1.455 | 99.2 | 182.2 | --- | 2.341 | 3.06 | 0.410 | 86.6 | 340.1 | 4.8 | 0.260 |
| 4-3670 | 4-3970 | 0.610 | 254.0 | -32.8 | -6.37 | 1.138 | 57.8 | 0.596 | 1.483 | 95.6 | 184.0 | --- | 2.367 | 3.04 | 0.417 | 84.1 | 340.9 | 4.9 | 0.257 |
| 4-3670 | 4-3990 | 0.590 | 255.9 | -34.0 | -6.66 | 1.144 | 59.2 | 0.585 | 1.511 | 92.0 | 185.8 | --- | 2.395 | 3.04 | 0.424 | 82.0 | 342.1 | 5.0 | 0.254 |
| 4-3670 | 4-4010 | 0.572 | 257.9 | -35.2 | -6.94 | 1.149 | 60.5 | 0.574 | 1.540 | 88.4 | 187.5 | --- | 2.425 | 3.07 | 0.430 | 80.2 | 343.8 | 5.2 | 0.252 |
| 4-3670 | 4-4030 | 0.554 | 259.9 | -36.5 | -7.23 | 1.154 | 61.8 | 0.565 | 1.569 | 84.8 | 189.1 | --- | 2.456 | 3.13 | 0.436 | 78.6 | 345.7 | 5.3 | 0.251 |
| 4-3670 | 4-4050 | 0.537 | 262.0 | -37.9 | -7.53 | 1.159 | 63.1 | 0.557 | 1.598 | 81.2 | 190.6 | --- | 2.487 | 3.22 | 0.442 | 77.2 | 348.0 | 5.6 | 0.250 |
| 4-3670 | 4-4070 | 0.520 | 264.2 | -39.3 | -7.84 | 1.164 | 64.4 | 0.549 | 1.626 | 77.6 | 192.1 | --- | 2.519 | 3.33 | 0.448 | 76.0 | 350.5 | 5.8 | 0.249 |
| 4-3670 | 4-4090 | 0.505 | 266.4 | -40.8 | -8.17 | 1.168 | 65.6 | 0.543 | 1.653 | 74.1 | 193.5 | --- | 2.551 | 3.48 | 0.453 | 75.0 | 353.2 | 6.2 | 0.248 |
| 4-3670 | 4-4110 | 0.490 | 268.8 | -42.5 | -8.53 | 1.173 | 66.7 | 0.537 | 1.681 | 70.6 | 194.9 | --- | 2.583 | 3.68 | 0.458 | 74.0 | 356.0 | 6.5 | 0.247 |
| 4-3670 | 4-4130 | 0.477 | 271.2 | -44.2 | -8.93 | 1.176 | 67.9 | 0.531 | 1.707 | 67.1 | 196.3 | --- | 2.614 | 3.92 | 0.463 | 73.0 | 359.0 | 7.0 | 0.247 |
| 4-3670 | 4-4150 | 0.464 | 273.9 | -46.2 | -9.39 | 1.180 | 69.0 | 0.527 | 1.733 | 63.7 | 197.7 | --- | 2.646 | 4.22 | 0.468 | 72.2 | 2.2 | 7.6 | 0.247 |
| 4-3670 | 4-4170 | 0.453 | 276.6 | -48.4 | -9.92 | 1.184 | 70.2 | 0.523 | 1.758 | 60.3 | 199.0 | --- | 2.677 | 4.60 | 0.472 | 71.4 | 5.4 | 8.4 | 0.247 |
| 4-3670 | 4-4190 | 0.444 | 279.6 | -50.8 | -10.55 | 1.187 | 71.3 | 0.519 | 1.783 | 57.0 | 200.4 | --- | 2.708 | 5.09 | 0.477 | 70.6 | 8.8 | 9.3 | 0.247 |
| 4-3670 | 4-4210 | 0.437 | 282.8 | -53.7 | -11.33 | 1.190 | 72.3 | 0.516 | 1.807 | 53.6 | 201.7 | --- | 2.739 | 5.74 | 0.482 | 69.9 | 12.2 | 10.5 | 0.248 |
| 4-3670 | 4-4230 | 0.434 | 286.3 | -57.1 | -12.34 | 1.193 | 73.4 | 0.513 | 1.830 | 50.4 | 203.0 | --- | 2.769 | 6.62 | 0.486 | 69.2 | 15.8 | 12.1 | 0.250 |
| 4-3670 | 4-4250 | 0.437 | 290.2 | -61.3 | -13.72 | 1.196 | 74.5 | 0.511 | 1.852 | 47.1 | 204.3 | --- | 2.799 | 7.87 | 0.491 | 68.5 | 19.5 | 14.3 | 0.253 |
| 4-3670 | 4-4270 | 0.450 | 294.6 | -66.7 | -15.73 | 1.198 | 75.5 | 0.509 | 1.874 | 43.9 | 205.7 | --- | 2.828 | 9.75 | 0.496 | 67.8 | 23.6 | 17.5 | 0.258 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3670 | 4-4290 | 0.483 | 299.6 | -74.1 | -18.99 | 1.201 | 76.5 | 0.508 | 1.895 | 40.7 | 207.0 | --- | 2.858 | 12.89 | 0.501 | 67.2 | 28.1 | 22.4 | 0.270 |
| 4-3670 | 4-4310 | 0.567 | 303.9 | -84.9 | -25.28 | 1.203 | 77.5 | 0.507 | 1.916 | 37.6 | 208.3 | --- | 2.887 | 19.06 | 0.506 | 66.5 | 34.3 | 30.4 | 0.299 |
| 4-3670 | 4-4330 | 0.829 | 140.9 | -76.7 | -41.83 | 1.206 | 78.4 | 0.507 | 1.936 | 34.9 | 209.6 | --- | 2.917 | 35.48 | 0.511 | 65.8 | 47.5 | 42.1 | 0.404 |
| 4-3670 | 4-4370 | 0.551 | 278.9 | 45.5 | 25.37 | 1.210 | 81.2 | 0.504 | 1.974 | 26.5 | 212.2 | --- | 2.968 | -31.96 | 0.522 | 64.9 | 53.4 | -41.1 | 0.381 |
| 4-3670 | 4-4390 | 0.341 | 300.5 | 23.6 | 11.17 | 1.212 | 82.1 | 0.505 | 1.992 | 23.6 | 213.5 | --- | 2.997 | -17.88 | 0.528 | 64.3 | 49.3 | -29.5 | 0.296 |
| 4-3670 | 4-4410 | 0.280 | 311.6 | 7.2 | 5.47 | 1.213 | 83.2 | 0.506 | 2.010 | 20.5 | 214.9 | --- | 3.026 | -12.31 | 0.534 | 63.7 | 51.0 | -21.9 | 0.273 |
| 4-3670 | 4-4430 | 0.257 | 320.3 | -3.4 | 2.43 | 1.215 | 84.2 | 0.507 | 2.027 | 17.3 | 216.2 | --- | 3.054 | -9.39 | 0.540 | 63.2 | 54.1 | -17.3 | 0.265 |
| 4-3670 | 4-4450 | 0.246 | 328.1 | -10.1 | 0.53 | 1.217 | 85.3 | 0.508 | 2.044 | 14.0 | 217.5 | --- | 3.083 | -7.62 | 0.546 | 62.6 | 57.8 | -14.2 | 0.262 |
| 4-3670 | 4-4470 | 0.242 | 335.7 | -14.3 | -0.78 | 1.218 | 86.4 | 0.510 | 2.060 | 10.6 | 218.8 | --- | 3.111 | -6.43 | 0.552 | 62.1 | 61.7 | -12.0 | 0.262 |
| 4-3680 | 4-3780 | 1.090 | 244.0 | -22.6 | -2.38 | 1.160 | 29.3 | 0.890 | 1.605 | 139.0 | 162.3 | --- | --- | 4.88 | 0.539 | 150.7 | 353.2 | 2.1 | 0.616 |
| 4-3680 | 4-3800 | 0.999 | 245.0 | -23.6 | -3.46 | 1.121 | 33.6 | 0.847 | 1.407 | 135.9 | 165.4 | --- | --- | 3.91 | 0.444 | 139.8 | 350.7 | 2.2 | 0.506 |
| 4-3680 | 4-3820 | 0.934 | 246.3 | -24.7 | -4.18 | 1.104 | 37.1 | 0.810 | 1.335 | 132.6 | 168.2 | --- | --- | 3.30 | 0.391 | 128.6 | 348.1 | 2.3 | 0.434 |
| 4-3680 | 4-3840 | 0.884 | 247.9 | -25.7 | -4.71 | 1.098 | 40.1 | 0.779 | 1.312 | 129.2 | 170.9 | --- | --- | 2.89 | 0.364 | 118.1 | 345.5 | 2.4 | 0.384 |
| 4-3680 | 4-3860 | 0.843 | 249.5 | -26.7 | -5.12 | 1.098 | 42.6 | 0.752 | 1.312 | 125.7 | 173.4 | --- | --- | 2.60 | 0.355 | 108.9 | 343.3 | 2.5 | 0.351 |
| 4-3680 | 4-3880 | 0.808 | 251.3 | -27.6 | -5.45 | 1.101 | 44.9 | 0.727 | 1.324 | 122.1 | 175.6 | --- | --- | 2.39 | 0.355 | 101.3 | 341.5 | 2.5 | 0.327 |
| 4-3680 | 4-3900 | 0.777 | 253.1 | -28.5 | -5.73 | 1.107 | 47.0 | 0.705 | 1.345 | 118.4 | 177.8 | --- | --- | 2.23 | 0.361 | 95.3 | 340.4 | 2.6 | 0.311 |
| 4-3680 | 4-3920 | 0.748 | 255.0 | -29.5 | -5.98 | 1.113 | 48.9 | 0.686 | 1.369 | 114.7 | 179.8 | --- | --- | 2.12 | 0.369 | 90.5 | 339.9 | 2.6 | 0.300 |
| 4-3680 | 4-3940 | 0.722 | 256.9 | -30.4 | -6.20 | 1.119 | 50.7 | 0.668 | 1.397 | 110.9 | 181.6 | --- | 2.330 | 2.04 | 0.378 | 86.7 | 340.0 | 2.6 | 0.291 |
| 4-3680 | 4-3960 | 0.698 | 258.9 | -31.3 | -6.40 | 1.126 | 52.4 | 0.652 | 1.426 | 107.2 | 183.4 | --- | 2.356 | 1.98 | 0.388 | 83.6 | 340.6 | 2.7 | 0.285 |
| 4-3680 | 4-3980 | 0.674 | 260.8 | -32.2 | -6.59 | 1.132 | 54.0 | 0.637 | 1.457 | 103.5 | 185.1 | --- | 2.385 | 1.94 | 0.398 | 81.2 | 341.8 | 2.7 | 0.280 |
| 4-3680 | 4-4000 | 0.652 | 262.8 | -33.1 | -6.77 | 1.138 | 55.5 | 0.624 | 1.487 | 99.7 | 186.7 | --- | 2.415 | 1.93 | 0.407 | 79.1 | 343.3 | 2.8 | 0.277 |
| 4-3680 | 4-4020 | 0.631 | 264.9 | -34.0 | -6.94 | 1.144 | 57.0 | 0.611 | 1.518 | 96.1 | 188.3 | --- | 2.447 | 1.92 | 0.415 | 77.4 | 345.2 | 2.9 | 0.274 |
| 4-3680 | 4-4040 | 0.611 | 266.9 | -34.9 | -7.12 | 1.150 | 58.4 | 0.600 | 1.549 | 92.4 | 189.8 | --- | 2.479 | 1.94 | 0.423 | 76.0 | 347.3 | 2.9 | 0.271 |
| 4-3680 | 4-4060 | 0.591 | 269.0 | -35.8 | -7.29 | 1.155 | 59.8 | 0.590 | 1.579 | 88.8 | 191.2 | --- | 2.512 | 1.97 | 0.430 | 74.7 | 349.7 | 3.0 | 0.269 |
| 4-3680 | 4-4080 | 0.573 | 271.2 | -36.8 | -7.48 | 1.160 | 61.1 | 0.581 | 1.609 | 85.2 | 192.7 | --- | 2.544 | 2.02 | 0.437 | 73.6 | 352.4 | 3.2 | 0.266 |
| 4-3680 | 4-4100 | 0.555 | 273.4 | -37.8 | -7.66 | 1.165 | 62.4 | 0.573 | 1.639 | 81.6 | 194.0 | --- | 2.577 | 2.08 | 0.444 | 72.6 | 355.1 | 3.3 | 0.264 |
| 4-3680 | 4-4120 | 0.537 | 275.7 | -38.8 | -7.86 | 1.170 | 63.7 | 0.565 | 1.667 | 78.1 | 195.4 | --- | 2.609 | 2.16 | 0.450 | 71.8 | 358.0 | 3.5 | 0.263 |
| 4-3680 | 4-4140 | 0.521 | 278.1 | -39.9 | -8.08 | 1.174 | 64.9 | 0.558 | 1.695 | 74.6 | 196.7 | --- | 2.641 | 2.27 | 0.456 | 70.9 | 1.1 | 3.8 | 0.261 |
| 4-3680 | 4-4160 | 0.505 | 280.6 | -41.1 | -8.31 | 1.178 | 66.1 | 0.552 | 1.722 | 71.1 | 198.1 | --- | 2.673 | 2.41 | 0.462 | 70.2 | 4.2 | 4.0 | 0.260 |
| 4-3680 | 4-4180 | 0.490 | 283.2 | -42.4 | -8.58 | 1.182 | 67.3 | 0.546 | 1.749 | 67.7 | 199.4 | --- | 2.704 | 2.57 | 0.467 | 69.5 | 7.5 | 4.4 | 0.258 |
| 4-3680 | 4-4200 | 0.476 | 285.9 | -43.7 | -8.88 | 1.185 | 68.4 | 0.541 | 1.774 | 64.4 | 200.7 | --- | 2.735 | 2.79 | 0.473 | 68.8 | 10.8 | 4.8 | 0.257 |
| 4-3680 | 4-4220 | 0.463 | 288.8 | -45.3 | -9.24 | 1.188 | 69.6 | 0.537 | 1.799 | 61.0 | 202.0 | --- | 2.766 | 3.06 | 0.478 | 68.2 | 14.2 | 5.3 | 0.256 |
| 4-3680 | 4-4240 | 0.451 | 291.9 | -47.0 | -9.68 | 1.192 | 70.7 | 0.533 | 1.824 | 57.7 | 203.3 | --- | 2.796 | 3.41 | 0.483 | 67.6 | 17.7 | 6.0 | 0.256 |
| 4-3680 | 4-4260 | 0.441 | 295.3 | -49.0 | -10.23 | 1.194 | 71.8 | 0.529 | 1.847 | 54.4 | 204.6 | --- | 2.825 | 3.87 | 0.489 | 67.0 | 21.2 | 6.8 | 0.255 |
| 4-3680 | 4-4280 | 0.434 | 298.9 | -51.5 | -10.95 | 1.197 | 72.9 | 0.526 | 1.870 | 51.1 | 205.9 | --- | 2.854 | 4.51 | 0.494 | 66.4 | 24.9 | 8.0 | 0.256 |
| 4-3680 | 4-4300 | 0.430 | 303.1 | -54.7 | -11.97 | 1.200 | 74.0 | 0.524 | 1.892 | 47.9 | 207.2 | --- | 2.883 | 5.45 | 0.500 | 65.9 | 28.6 | 9.7 | 0.257 |
| 4-3680 | 4-4320 | 0.435 | 308.0 | -59.0 | -13.53 | 1.202 | 75.0 | 0.521 | 1.913 | 44.7 | 208.5 | --- | 2.911 | 6.93 | 0.505 | 65.3 | 32.6 | 12.3 | 0.260 |
| 4-3680 | 4-4340 | 0.456 | 314.3 | -65.6 | -16.26 | 1.205 | 76.1 | 0.520 | 1.934 | 41.5 | 209.8 | --- | 2.939 | 9.58 | 0.511 | 64.8 | 36.9 | 16.8 | 0.267 |
| 4-3680 | 4-4360 | 0.530 | 325.5 | -77.1 | -22.35 | 1.207 | 77.1 | 0.518 | 1.954 | 38.3 | 211.1 | --- | 2.967 | 15.60 | 0.517 | 64.3 | 42.7 | 25.6 | 0.290 |
| 4-3680 | 4-4380 | 0.907 | 145.7 | -76.6 | -46.38 | 1.209 | 78.1 | 0.518 | 1.974 | 35.5 | 212.5 | --- | 2.996 | 39.55 | 0.523 | 63.7 | 60.0 | 42.9 | 0.438 |
| 4-3680 | 4-4400 | 0.691 | 270.6 | 48.5 | 33.46 | 1.211 | 79.6 | 0.515 | 1.993 | 30.8 | 213.8 | --- | 3.018 | -40.37 | 0.529 | 63.4 | 64.8 | -43.5 | 0.445 |
| 4-3680 | 4-4420 | 0.332 | 307.3 | 15.1 | 8.68 | 1.213 | 80.6 | 0.515 | 2.011 | 28.0 | 215.1 | --- | 3.047 | -15.66 | 0.535 | 62.9 | 54.5 | -26.1 | 0.293 |
| 4-3680 | 4-4440 | 0.282 | 319.1 | -4.7 | 2.48 | 1.215 | 81.6 | 0.515 | 2.029 | 24.8 | 216.5 | --- | 3.074 | -9.54 | 0.541 | 62.4 | 56.5 | -17.1 | 0.271 |
| 4-3680 | 4-4460 | 0.269 | 327.3 | -14.5 | -0.28 | 1.216 | 82.7 | 0.515 | 2.047 | 21.5 | 217.8 | --- | 3.101 | -6.88 | 0.548 | 62.0 | 59.9 | -12.6 | 0.265 |
| 4-3680 | 4-4480 | 0.262 | 334.6 | -19.7 | -1.85 | 1.218 | 83.8 | 0.516 | 2.064 | 18.2 | 219.1 | --- | 3.128 | -5.37 | 0.555 | 61.5 | 63.8 | -10.0 | 0.264 |
| 4-3690 | 4-3810 | 1.102 | 249.7 | -24.5 | -5.30 | 1.103 | 26.6 | 0.901 | 1.333 | 146.7 | 169.7 | --- | --- | 1.95 | 0.393 | 144.7 | 348.5 | 0.8 | 0.542 |
| 4-3690 | 4-3830 | 1.030 | 251.5 | -25.5 | -5.73 | 1.088 | 30.7 | 0.866 | 1.276 | 142.4 | 171.6 | --- | --- | 1.56 | 0.339 | 131.5 | 346.1 | 0.8 | 0.469 |
| 4-3690 | 4-3850 | 0.974 | 253.5 | -26.4 | -6.01 | 1.084 | 34.2 | 0.834 | 1.262 | 138.3 | 173.5 | --- | --- | 1.32 | 0.315 | 118.9 | 344.0 | 0.9 | 0.419 |
| 4-3690 | 4-3870 | 0.928 | 255.5 | -27.2 | -6.22 | 1.086 | 37.2 | 0.806 | 1.268 | 134.3 | 175.5 | --- | --- | 1.16 | 0.310 | 108.0 | 342.2 | 0.9 | 0.385 |
| 4-3690 | 4-3890 | 0.889 | 257.6 | -28.0 | -6.38 | 1.091 | 39.8 | 0.780 | 1.285 | 130.3 | 177.4 | --- | --- | 1.04 | 0.315 | 99.2 | 341.0 | 0.9 | 0.360 |
| 4-3690 | 4-3910 | 0.854 | 259.6 | -28.7 | -6.51 | 1.097 | 42.2 | 0.756 | 1.309 | 126.4 | 179.2 | --- | --- | 0.96 | 0.326 | 92.5 | 340.4 | 0.9 | 0.343 |
| 4-3690 | 4-3930 | 0.823 | 261.7 | -29.4 | -6.62 | 1.104 | 44.3 | 0.735 | 1.337 | 122.5 | 180.9 | --- | 2.319 | 0.89 | 0.339 | 87.4 | 340.3 | 0.9 | 0.330 |
| 4-3690 | 4-3950 | 0.794 | 263.7 | -30.1 | -6.72 | 1.112 | 46.3 | 0.715 | 1.367 | 118.6 | 182.6 | --- | 2.344 | 0.85 | 0.352 | 83.4 | 340.8 | 0.9 | 0.320 |
| 4-3690 | 4-3970 | 0.767 | 265.8 | -30.8 | -6.81 | 1.119 | 48.2 | 0.697 | 1.399 | 114.8 | 184.3 | --- | 2.373 | 0.81 | 0.365 | 80.4 | 341.8 | 0.9 | 0.313 |
| 4-3690 | 4-3990 | 0.741 | 267.9 | -31.5 | -6.89 | 1.126 | 50.0 | 0.680 | 1.431 | 111.0 | 185.8 | --- | 2.404 | 0.79 | 0.377 | 78.0 | 343.2 | 0.9 | 0.307 |
| 4-3690 | 4-4010 | 0.717 | 269.9 | -32.1 | -6.96 | 1.133 | 51.7 | 0.665 | 1.464 | 107.2 | 187.3 | --- | 2.437 | 0.77 | 0.389 | 76.0 | 345.0 | 1.0 | 0.302 |
| 4-3690 | 4-4030 | 0.693 | 272.0 | -32.7 | -7.03 | 1.140 | 53.3 | 0.651 | 1.496 | 103.5 | 188.8 | --- | 2.470 | 0.76 | 0.399 | 74.4 | 347.0 | 1.0 | 0.297 |
| 4-3690 | 4-4050 | 0.671 | 274.0 | -33.3 | -7.10 | 1.146 | 54.8 | 0.638 | 1.528 | 99.8 | 190.2 | --- | 2.503 | 0.76 | 0.409 | 73.1 | 349.3 | 1.0 | 0.293 |
| 4-3690 | 4-4070 | 0.650 | 276.1 | -33.9 | -7.17 | 1.152 | 56.3 | 0.626 | 1.560 | 96.1 | 191.6 | --- | 2.537 | 0.77 | 0.418 | 71.9 | 351.8 | 1.0 | 0.289 |
| 4-3690 | 4-4090 | 0.629 | 278.3 | -34.5 | -7.23 | 1.157 | 57.7 | 0.615 | 1.592 | 92.5 | 193.0 | --- | 2.571 | 0.77 | 0.426 | 71.0 | 354.5 | 1.1 | 0.286 |
| 4-3690 | 4-4110 | 0.609 | 280.4 | -35.2 | -7.30 | 1.162 | 59.1 | 0.605 | 1.622 | 88.9 | 194.3 | --- | 2.604 | 0.79 | 0.434 | 70.1 | 357.4 | 1.1 | 0.283 |
| 4-3690 | 4-4130 | 0.589 | 282.6 | -35.8 | -7.37 | 1.167 | 60.5 | 0.596 | 1.652 | 85.4 | 195.7 | --- | 2.637 | 0.81 | 0.441 | 69.3 | 0.3 | 1.2 | 0.280 |
| 4-3690 | 4-4150 | 0.570 | 284.8 | -36.4 | -7.45 | 1.172 | 61.8 | 0.587 | 1.681 | 81.9 | 197.0 | --- | 2.669 | 0.84 | 0.448 | 68.6 | 3.4 | 1.3 | 0.278 |
| 4-3690 | 4-4170 | 0.552 | 287.1 | -37.0 | -7.53 | 1.176 | 63.0 | 0.580 | 1.710 | 78.4 | 198.3 | --- | 2.701 | 0.88 | 0.455 | 68.0 | 6.6 | 1.3 | 0.275 |
| 4-3690 | 4-4190 | 0.535 | 289.5 | -37.7 | -7.62 | 1.180 | 64.3 | 0.573 | 1.738 | 75.0 | 199.5 | --- | 2.733 | 0.92 | 0.461 | 67.4 | 9.8 | 1.4 | 0.273 |
| 4-3690 | 4-4210 | 0.517 | 292.0 | -38.3 | -7.71 | 1.183 | 65.5 | 0.566 | 1.764 | 71.6 | 200.8 | --- | 2.764 | 0.98 | 0.468 | 66.8 | 13.2 | 1.6 | 0.271 |
| 4-3690 | 4-4230 | 0.501 | 294.5 | -39.0 | -7.82 | 1.187 | 66.7 | 0.561 | 1.790 | 68.3 | 202.1 | --- | 2.794 | 1.06 | 0.474 | 66.3 | 16.5 | 1.7 | 0.269 |
| 4-3690 | 4-4250 | 0.485 | 297.2 | -39.7 | -7.95 | 1.190 | 67.8 | 0.555 | 1.816 | 64.9 | 203.4 | --- | 2.824 | 1.15 | 0.480 | 65.8 | 20.0 | 1.9 | 0.267 |
| 4-3690 | 4-4270 | 0.470 | 300.0 | -40.5 | -8.10 | 1.193 | 69.0 | 0.550 | 1.840 | 61.6 | 204.7 | --- | 2.853 | 1.27 | 0.486 | 65.3 | 23.5 | 2.1 | 0.266 |
| 4-3690 | 4-4290 | 0.455 | 302.9 | -41.4 | -8.29 | 1.196 | 70.1 | 0.546 | 1.864 | 58.3 | 206.0 | --- | 2.882 | 1.42 | 0.492 | 64.8 | 27.1 | 2.4 | 0.264 |
| 4-3690 | 4-4310 | 0.442 | 306.1 | -42.4 | -8.54 | 1.199 | 71.3 | 0.542 | 1.887 | 55.1 | 207.3 | --- | 2.910 | 1.63 | 0.498 | 64.4 | 30.7 | 2.8 | 0.263 |
| 4-3690 | 4-4330 | 0.430 | 309.5 | -43.6 | -8.87 | 1.201 | 72.4 | 0.539 | 1.909 | 51.8 | 208.6 | --- | 2.938 | 1.93 | 0.504 | 63.9 | 34.4 | 3.3 | 0.263 |
| 4-3690 | 4-4350 | 0.419 | 313.2 | -45.2 | -9.35 | 1.204 | 73.5 | 0.536 | 1.931 | 48.6 | 209.9 | --- | 2.965 | 2.38 | 0.510 | 63.5 | 38.2 | 4.1 | 0.263 |
| 4-3690 | 4-4370 | 0.412 | 317.4 | -47.6 | -10.12 | 1.206 | 74.6 | 0.533 | 1.952 | 45.4 | 211.2 | --- | 2.992 | 3.13 | 0.516 | 63.1 | 42.0 | 5.5 | 0.263 |
| 4-3690 | 4-4390 | 0.414 | 322.7 | -51.7 | -11.63 | 1.208 | 75.7 | 0.531 | 1.972 | 42.1 | 212.6 | --- | 3.019 | 4.60 | 0.523 | 62.7 | 46.0 | 8.1 | 0.265 |
| 4-3690 | 4-4410 | 0.450 | 331.2 | -61.7 | -15.90 | 1.210 | 76.8 | 0.529 | 1.992 | 38.9 | 213.9 | --- | 3.045 | 8.84 | 0.529 | 62.3 | 50.7 | 15.3 | 0.274 |
| 4-3690 | 4-4450 | 0.315 | 319.3 | -4.9 | 2.74 | 1.214 | 79.0 | 0.526 | 2.030 | 32.2 | 216.6 | --- | 3.097 | -9.86 | 0.543 | 61.5 | 58.9 | -17.1 | 0.278 |
| 4-3690 | 4-4470 | 0.302 | 329.7 | -22.3 | -2.34 | 1.216 | 80.1 | 0.525 | 2.048 | 28.9 | 218.0 | --- | 3.123 | -4.81 | 0.550 | 61.1 | 62.0 | -8.7 | 0.268 |
| 4-3690 | 4-4490 | 0.297 | 336.4 | -27.5 | -4.00 | 1.218 | 81.3 | 0.524 | 2.065 | 25.5 | 219.4 | --- | 3.148 | -3.19 | 0.557 | 60.8 | 66.0 | -5.8 | 0.267 |
| 4-3700 | 4-3820 | 1.207 | 254.9 | -25.3 | -8.53 | 1.090 | 19.4 | 0.946 | 1.284 | 156.5 | 173.1 | --- | --- | -1.47 | 0.350 | 151.8 | 347.4 | -0.4 | 0.587 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3700 | 4-3840 | 1.127 | 257.2 | -26.1 | -8.12 | 1.075 | 24.1 | 0.915 | 1.234 | 151.4 | 174.1 | --- | --- | -1.09 | 0.290 | 136.5 | 345.3 | -0.4 | 0.511 |
| 4-3700 | 4-3860 | 1.065 | 259.5 | -26.8 | -7.89 | 1.072 | 28.1 | 0.885 | 1.223 | 146.7 | 175.4 | --- | --- | -0.87 | 0.266 | 120.9 | 343.5 | -0.4 | 0.460 |
| 4-3700 | 4-3880 | 1.015 | 261.8 | -27.5 | -7.73 | 1.075 | 31.5 | 0.857 | 1.233 | 142.3 | 177.0 | --- | --- | -0.74 | 0.264 | 107.5 | 342.2 | -0.4 | 0.423 |
| 4-3700 | 4-3900 | 0.972 | 264.1 | -28.1 | -7.61 | 1.081 | 34.5 | 0.831 | 1.252 | 138.1 | 178.5 | --- | --- | -0.65 | 0.274 | 97.1 | 341.4 | -0.4 | 0.397 |
| 4-3700 | 4-3920 | 0.933 | 266.4 | -28.7 | -7.52 | 1.089 | 37.2 | 0.806 | 1.278 | 134.0 | 180.1 | --- | 2.308 | -0.58 | 0.290 | 89.5 | 341.2 | -0.4 | 0.378 |
| 4-3700 | 4-3940 | 0.899 | 268.6 | -29.2 | -7.45 | 1.097 | 39.6 | 0.783 | 1.308 | 129.9 | 181.7 | --- | 2.332 | -0.54 | 0.307 | 83.9 | 341.5 | -0.4 | 0.363 |
| 4-3700 | 4-3960 | 0.867 | 270.7 | -29.7 | -7.39 | 1.105 | 41.9 | 0.762 | 1.340 | 125.9 | 183.2 | --- | 2.360 | -0.50 | 0.324 | 79.8 | 342.3 | -0.5 | 0.352 |
| 4-3700 | 4-3980 | 0.838 | 272.9 | -30.2 | -7.34 | 1.113 | 43.9 | 0.742 | 1.373 | 122.0 | 184.7 | --- | 2.391 | -0.47 | 0.341 | 76.8 | 343.5 | -0.5 | 0.343 |
| 4-3700 | 4-4000 | 0.810 | 275.0 | -30.6 | -7.29 | 1.121 | 45.9 | 0.724 | 1.406 | 118.1 | 186.2 | --- | 2.424 | -0.45 | 0.356 | 74.4 | 345.1 | -0.5 | 0.335 |
| 4-3700 | 4-4020 | 0.783 | 277.1 | -31.0 | -7.25 | 1.128 | 47.7 | 0.707 | 1.440 | 114.3 | 187.6 | --- | 2.459 | -0.44 | 0.370 | 72.6 | 347.0 | -0.5 | 0.328 |
| 4-3700 | 4-4040 | 0.758 | 279.1 | -31.4 | -7.21 | 1.135 | 49.5 | 0.691 | 1.474 | 110.6 | 189.0 | --- | 2.493 | -0.43 | 0.382 | 71.1 | 349.2 | -0.5 | 0.323 |
| 4-3700 | 4-4060 | 0.734 | 281.2 | -31.8 | -7.17 | 1.142 | 51.1 | 0.677 | 1.508 | 106.9 | 190.4 | --- | 2.528 | -0.42 | 0.394 | 69.9 | 351.6 | -0.5 | 0.317 |
| 4-3700 | 4-4080 | 0.710 | 283.3 | -32.1 | -7.13 | 1.148 | 52.7 | 0.663 | 1.541 | 103.2 | 191.8 | --- | 2.563 | -0.42 | 0.405 | 68.9 | 354.2 | -0.5 | 0.312 |
| 4-3700 | 4-4100 | 0.688 | 285.3 | -32.4 | -7.09 | 1.154 | 54.3 | 0.651 | 1.573 | 99.6 | 193.1 | --- | 2.598 | -0.42 | 0.414 | 68.1 | 357.0 | -0.5 | 0.308 |
| 4-3700 | 4-4120 | 0.666 | 287.4 | -32.7 | -7.06 | 1.159 | 55.7 | 0.639 | 1.605 | 96.0 | 194.4 | --- | 2.632 | -0.42 | 0.423 | 67.3 | 359.8 | -0.5 | 0.304 |
| 4-3700 | 4-4140 | 0.645 | 289.5 | -33.0 | -7.02 | 1.165 | 57.2 | 0.629 | 1.636 | 92.5 | 195.7 | --- | 2.665 | -0.43 | 0.432 | 66.7 | 2.8 | -0.6 | 0.300 |
| 4-3700 | 4-4160 | 0.624 | 291.6 | -33.3 | -6.98 | 1.169 | 58.5 | 0.619 | 1.667 | 89.0 | 197.0 | --- | 2.698 | -0.44 | 0.440 | 66.1 | 5.9 | -0.6 | 0.296 |
| 4-3700 | 4-4180 | 0.604 | 293.7 | -33.5 | -6.94 | 1.174 | 59.9 | 0.610 | 1.696 | 85.5 | 198.3 | --- | 2.731 | -0.46 | 0.448 | 65.6 | 9.1 | -0.6 | 0.293 |
| 4-3700 | 4-4200 | 0.584 | 295.8 | -33.8 | -6.90 | 1.178 | 61.2 | 0.602 | 1.725 | 82.1 | 199.5 | --- | 2.762 | -0.47 | 0.455 | 65.1 | 12.4 | -0.7 | 0.290 |
| 4-3700 | 4-4220 | 0.565 | 298.0 | -34.0 | -6.86 | 1.182 | 62.4 | 0.594 | 1.753 | 78.7 | 200.8 | --- | 2.793 | -0.50 | 0.462 | 64.6 | 15.7 | -0.7 | 0.287 |
| 4-3700 | 4-4240 | 0.547 | 300.3 | -34.1 | -6.81 | 1.186 | 63.7 | 0.587 | 1.780 | 75.4 | 202.1 | --- | 2.824 | -0.52 | 0.469 | 64.2 | 19.1 | -0.8 | 0.284 |
| 4-3700 | 4-4260 | 0.528 | 302.6 | -34.3 | -6.75 | 1.189 | 64.9 | 0.580 | 1.806 | 72.0 | 203.4 | --- | 2.854 | -0.56 | 0.476 | 63.8 | 22.6 | -0.8 | 0.282 |
| 4-3700 | 4-4280 | 0.510 | 304.9 | -34.4 | -6.69 | 1.192 | 66.1 | 0.574 | 1.832 | 68.7 | 204.6 | --- | 2.883 | -0.60 | 0.483 | 63.4 | 26.1 | -0.9 | 0.280 |
| 4-3700 | 4-4300 | 0.493 | 307.4 | -34.4 | -6.61 | 1.195 | 67.3 | 0.568 | 1.856 | 65.5 | 205.9 | --- | 2.911 | -0.66 | 0.489 | 63.0 | 29.6 | -1.0 | 0.278 |
| 4-3700 | 4-4320 | 0.476 | 309.9 | -34.4 | -6.52 | 1.198 | 68.5 | 0.563 | 1.880 | 62.2 | 207.2 | --- | 2.939 | -0.73 | 0.496 | 62.7 | 33.3 | -1.2 | 0.276 |
| 4-3700 | 4-4340 | 0.459 | 312.5 | -34.2 | -6.40 | 1.201 | 69.6 | 0.559 | 1.903 | 59.0 | 208.5 | --- | 2.967 | -0.83 | 0.503 | 62.3 | 36.9 | -1.3 | 0.274 |
| 4-3700 | 4-4360 | 0.442 | 315.2 | -34.0 | -6.25 | 1.203 | 70.8 | 0.554 | 1.926 | 55.7 | 209.9 | --- | 2.994 | -0.96 | 0.509 | 62.0 | 40.7 | -1.6 | 0.273 |
| 4-3700 | 4-4380 | 0.425 | 317.9 | -33.5 | -6.04 | 1.206 | 71.9 | 0.550 | 1.948 | 52.5 | 211.2 | --- | 3.020 | -1.16 | 0.516 | 61.7 | 44.4 | -1.9 | 0.272 |
| 4-3700 | 4-4400 | 0.408 | 320.7 | -32.6 | -5.72 | 1.208 | 73.0 | 0.547 | 1.969 | 49.2 | 212.6 | --- | 3.046 | -1.47 | 0.523 | 61.4 | 48.3 | -2.5 | 0.272 |
| 4-3700 | 4-4420 | 0.390 | 323.3 | -30.9 | -5.15 | 1.210 | 74.2 | 0.544 | 1.990 | 46.0 | 213.9 | --- | 3.072 | -2.01 | 0.530 | 61.0 | 52.2 | -3.4 | 0.272 |
| 4-3700 | 4-4440 | 0.370 | 325.4 | -27.0 | -3.89 | 1.212 | 75.3 | 0.541 | 2.009 | 42.7 | 215.3 | --- | 3.097 | -3.28 | 0.537 | 60.7 | 56.2 | -5.6 | 0.273 |
| 4-3700 | 4-4460 | 0.349 | 322.6 | -9.0 | 1.62 | 1.214 | 76.4 | 0.539 | 2.029 | 39.4 | 216.7 | --- | 3.122 | -8.75 | 0.544 | 60.5 | 61.1 | -14.7 | 0.283 |
| 4-3700 | 4-4480 | 0.489 | 350.1 | -63.9 | -19.08 | 1.216 | 77.6 | 0.537 | 2.048 | 36.0 | 218.1 | --- | 3.146 | 11.97 | 0.551 | 60.2 | 66.1 | 19.7 | 0.294 |
| 4-3700 | 4-4500 | 0.378 | 344.9 | -45.8 | -10.67 | 1.218 | 78.7 | 0.535 | 2.066 | 32.7 | 219.5 | --- | 3.171 | 3.58 | 0.559 | 59.9 | 68.5 | 6.3 | 0.275 |
| 4-3710 | 4-3830 | 1.311 | 260.5 | -25.8 | -15.70 | 1.082 | 12.1 | 0.979 | 1.255 | 165.6 | 175.9 | --- | --- | -8.89 | 0.319 | 161.1 | 347.4 | -1.4 | 0.639 |
| 4-3710 | 4-3850 | 1.225 | 263.2 | -26.5 | -12.39 | 1.067 | 17.5 | 0.955 | 1.205 | 159.7 | 176.1 | --- | --- | -5.66 | 0.248 | 144.2 | 345.5 | -1.5 | 0.559 |
| 4-3710 | 4-3870 | 1.157 | 265.8 | -27.1 | -10.84 | 1.064 | 22.0 | 0.929 | 1.195 | 154.6 | 176.9 | --- | --- | -4.20 | 0.218 | 125.0 | 344.1 | -1.5 | 0.504 |
| 4-3710 | 4-3890 | 1.102 | 268.4 | -27.6 | -9.93 | 1.067 | 25.8 | 0.903 | 1.205 | 149.9 | 178.0 | --- | --- | -3.38 | 0.217 | 107.8 | 343.1 | -1.5 | 0.465 |
| 4-3710 | 4-3910 | 1.055 | 270.9 | -28.0 | -9.32 | 1.073 | 29.1 | 0.877 | 1.225 | 145.4 | 179.3 | --- | --- | -2.86 | 0.232 | 95.0 | 342.7 | -1.5 | 0.437 |
| 4-3710 | 4-3930 | 1.014 | 273.2 | -28.4 | -8.88 | 1.081 | 32.1 | 0.853 | 1.252 | 141.1 | 180.7 | --- | 2.319 | -2.50 | 0.253 | 86.1 | 342.7 | -1.5 | 0.415 |
| 4-3710 | 4-3950 | 0.976 | 275.6 | -28.8 | -8.54 | 1.090 | 34.8 | 0.830 | 1.282 | 137.0 | 182.1 | --- | 2.348 | -2.25 | 0.275 | 80.0 | 343.3 | -1.5 | 0.399 |
| 4-3710 | 4-3970 | 0.942 | 277.8 | -29.1 | -8.26 | 1.099 | 37.3 | 0.808 | 1.315 | 132.9 | 183.5 | --- | 2.377 | -2.06 | 0.296 | 75.8 | 344.3 | -1.5 | 0.386 |
| 4-3710 | 4-3990 | 0.910 | 280.0 | -29.4 | -8.03 | 1.108 | 39.5 | 0.787 | 1.349 | 129.0 | 184.9 | --- | 2.410 | -1.92 | 0.316 | 72.7 | 345.7 | -1.5 | 0.375 |
| 4-3710 | 4-4010 | 0.880 | 282.2 | -29.6 | -7.83 | 1.116 | 41.7 | 0.768 | 1.383 | 125.1 | 186.3 | --- | 2.445 | -1.82 | 0.334 | 70.5 | 347.5 | -1.6 | 0.365 |
| 4-3710 | 4-4030 | 0.852 | 284.3 | -29.8 | -7.65 | 1.124 | 43.6 | 0.750 | 1.418 | 121.2 | 187.7 | --- | 2.481 | -1.74 | 0.350 | 68.8 | 349.5 | -1.6 | 0.357 |
| 4-3710 | 4-4050 | 0.824 | 286.3 | -30.0 | -7.48 | 1.131 | 45.5 | 0.733 | 1.453 | 117.4 | 189.0 | --- | 2.517 | -1.68 | 0.365 | 67.5 | 351.8 | -1.6 | 0.350 |
| 4-3710 | 4-4070 | 0.798 | 288.4 | -30.1 | -7.33 | 1.138 | 47.3 | 0.717 | 1.487 | 113.7 | 190.3 | --- | 2.553 | -1.64 | 0.378 | 66.4 | 354.2 | -1.7 | 0.343 |
| 4-3710 | 4-4090 | 0.773 | 290.4 | -30.2 | -7.19 | 1.145 | 49.0 | 0.702 | 1.521 | 110.1 | 191.6 | --- | 2.589 | -1.61 | 0.391 | 65.6 | 356.9 | -1.7 | 0.337 |
| 4-3710 | 4-4110 | 0.749 | 292.4 | -30.3 | -7.05 | 1.151 | 50.7 | 0.688 | 1.555 | 106.4 | 192.9 | --- | 2.625 | -1.59 | 0.402 | 64.9 | 359.6 | -1.8 | 0.331 |
| 4-3710 | 4-4130 | 0.726 | 294.3 | -30.4 | -6.92 | 1.157 | 52.2 | 0.675 | 1.588 | 102.9 | 194.2 | --- | 2.660 | -1.59 | 0.412 | 64.3 | 2.6 | -1.8 | 0.326 |
| 4-3710 | 4-4150 | 0.703 | 296.3 | -30.4 | -6.78 | 1.162 | 53.7 | 0.663 | 1.620 | 99.4 | 195.5 | --- | 2.694 | -1.60 | 0.422 | 63.8 | 5.6 | -1.9 | 0.321 |
| 4-3710 | 4-4170 | 0.681 | 298.3 | -30.5 | -6.65 | 1.167 | 55.2 | 0.652 | 1.651 | 95.9 | 196.8 | --- | 2.728 | -1.62 | 0.431 | 63.4 | 8.7 | -2.0 | 0.317 |
| 4-3710 | 4-4190 | 0.659 | 300.2 | -30.4 | -6.51 | 1.172 | 56.6 | 0.642 | 1.681 | 92.4 | 198.0 | --- | 2.761 | -1.65 | 0.440 | 63.0 | 11.9 | -2.1 | 0.313 |
| 4-3710 | 4-4210 | 0.638 | 302.2 | -30.4 | -6.36 | 1.176 | 58.0 | 0.632 | 1.711 | 89.0 | 199.3 | --- | 2.793 | -1.70 | 0.448 | 62.6 | 15.1 | -2.2 | 0.309 |
| 4-3710 | 4-4230 | 0.617 | 304.2 | -30.3 | -6.21 | 1.180 | 59.3 | 0.623 | 1.740 | 85.7 | 200.6 | --- | 2.824 | -1.75 | 0.456 | 62.3 | 18.5 | -2.3 | 0.305 |
| 4-3710 | 4-4250 | 0.597 | 306.2 | -30.1 | -6.05 | 1.184 | 60.6 | 0.615 | 1.768 | 82.3 | 201.9 | --- | 2.855 | -1.83 | 0.464 | 61.9 | 21.9 | -2.5 | 0.302 |
| 4-3710 | 4-4270 | 0.577 | 308.2 | -29.9 | -5.87 | 1.188 | 61.9 | 0.607 | 1.795 | 79.0 | 203.1 | --- | 2.885 | -1.92 | 0.472 | 61.6 | 25.3 | -2.7 | 0.299 |
| 4-3710 | 4-4290 | 0.557 | 310.3 | -29.6 | -5.68 | 1.191 | 63.1 | 0.600 | 1.821 | 75.7 | 204.4 | --- | 2.914 | -2.04 | 0.479 | 61.4 | 28.8 | -2.9 | 0.296 |
| 4-3710 | 4-4310 | 0.538 | 312.3 | -29.2 | -5.45 | 1.195 | 64.4 | 0.593 | 1.847 | 72.5 | 205.7 | --- | 2.942 | -2.19 | 0.486 | 61.1 | 32.4 | -3.2 | 0.293 |
| 4-3710 | 4-4330 | 0.519 | 314.4 | -28.6 | -5.20 | 1.198 | 65.6 | 0.587 | 1.872 | 69.2 | 207.0 | --- | 2.970 | -2.37 | 0.494 | 60.8 | 36.0 | -3.5 | 0.291 |
| 4-3710 | 4-4350 | 0.500 | 316.5 | -27.9 | -4.89 | 1.200 | 66.8 | 0.581 | 1.896 | 66.0 | 208.3 | --- | 2.997 | -2.61 | 0.501 | 60.6 | 39.7 | -3.9 | 0.289 |
| 4-3710 | 4-4370 | 0.481 | 318.6 | -27.0 | -4.51 | 1.203 | 68.0 | 0.575 | 1.919 | 62.7 | 209.7 | --- | 3.024 | -2.92 | 0.508 | 60.3 | 43.4 | -4.5 | 0.287 |
| 4-3710 | 4-4390 | 0.462 | 320.7 | -25.7 | -4.02 | 1.206 | 69.1 | 0.570 | 1.942 | 59.5 | 211.0 | --- | 3.050 | -3.34 | 0.515 | 60.1 | 47.2 | -5.2 | 0.286 |
| 4-3710 | 4-4410 | 0.443 | 322.7 | -23.8 | -3.35 | 1.208 | 70.3 | 0.566 | 1.964 | 56.3 | 212.4 | --- | 3.075 | -3.93 | 0.523 | 59.9 | 51.1 | -6.2 | 0.286 |
| 4-3710 | 4-4430 | 0.424 | 324.4 | -21.0 | -2.39 | 1.210 | 71.5 | 0.562 | 1.985 | 53.0 | 213.8 | --- | 3.100 | -4.83 | 0.530 | 59.7 | 55.1 | -7.7 | 0.286 |
| 4-3710 | 4-4450 | 0.406 | 325.6 | -16.3 | -0.84 | 1.212 | 72.6 | 0.558 | 2.006 | 49.8 | 215.2 | --- | 3.125 | -6.31 | 0.537 | 59.4 | 59.2 | -10.2 | 0.288 |
| 4-3710 | 4-4470 | 0.391 | 325.1 | -7.2 | 2.14 | 1.214 | 73.8 | 0.554 | 2.026 | 46.5 | 216.6 | --- | 3.150 | -9.23 | 0.545 | 59.2 | 63.8 | -14.8 | 0.295 |
| 4-3710 | 4-4490 | 0.420 | 317.5 | 15.2 | 10.29 | 1.216 | 74.9 | 0.551 | 2.046 | 43.3 | 218.0 | --- | 3.174 | -17.32 | 0.553 | 59.0 | 70.5 | -25.7 | 0.325 |
| 4-3720 | 4-3860 | 1.322 | 269.4 | -26.7 | -22.00 | 1.062 | 10.9 | 0.982 | 1.189 | 167.5 | 177.7 | --- | --- | -15.64 | 0.217 | 155.3 | 346.6 | -2.3 | 0.611 |
| 4-3720 | 4-3880 | 1.249 | 272.3 | -27.1 | -16.19 | 1.058 | 15.8 | 0.963 | 1.176 | 162.0 | 177.9 | --- | --- | -9.97 | 0.175 | 132.6 | 345.4 | -2.3 | 0.552 |
| 4-3720 | 4-3900 | 1.190 | 275.1 | -27.4 | -13.47 | 1.061 | 20.0 | 0.941 | 1.184 | 157.1 | 178.7 | --- | --- | -7.39 | 0.171 | 109.7 | 344.7 | -2.3 | 0.510 |
| 4-3720 | 4-3920 | 1.139 | 277.7 | -27.7 | -11.87 | 1.067 | 23.7 | 0.918 | 1.204 | 152.4 | 179.7 | --- | --- | -5.94 | 0.189 | 92.9 | 344.5 | -2.3 | 0.479 |
| 4-3720 | 4-3940 | 1.095 | 280.2 | -27.9 | -10.81 | 1.076 | 26.9 | 0.895 | 1.230 | 148.0 | 180.9 | --- | 2.331 | -5.01 | 0.214 | 82.2 | 344.9 | -2.3 | 0.455 |
| 4-3720 | 4-3960 | 1.055 | 282.6 | -28.1 | -10.03 | 1.085 | 29.9 | 0.873 | 1.260 | 143.8 | 182.2 | --- | 2.360 | -4.38 | 0.241 | 75.5 | 345.6 | -2.3 | 0.436 |
| 4-3720 | 4-3980 | 1.018 | 285.0 | -28.2 | -9.43 | 1.094 | 32.5 | 0.851 | 1.293 | 139.7 | 183.5 | --- | 2.393 | -3.93 | 0.267 | 71.1 | 346.8 | -2.4 | 0.421 |
| 4-3720 | 4-4000 | 0.984 | 287.2 | -28.3 | -8.95 | 1.103 | 35.0 | 0.830 | 1.327 | 135.6 | 184.8 | --- | 2.429 | -3.60 | 0.290 | 68.1 | 348.3 | -2.4 | 0.408 |
| 4-3720 | 4-4020 | 0.952 | 289.4 | -28.3 | -8.55 | 1.112 | 37.3 | 0.810 | 1.362 | 131.7 | 186.1 | --- | 2.466 | -3.35 | 0.311 | 66.1 | 350.2 | -2.4 | 0.397 |
| 4-3720 | 4-4040 | 0.922 | 291.5 | -28.4 | -8.20 | 1.120 | 39.4 | 0.792 | 1.397 | 127.9 | 187.4 | --- | 2.503 | -3.16 | 0.330 | 64.6 | 352.3 | -2.4 | 0.387 |
| 4-3720 | 4-4060 | 0.893 | 293.5 | -28.4 | -7.89 | 1.128 | 41.5 | 0.774 | 1.432 | 124.1 | 188.7 | --- | 2.541 | -3.01 | 0.347 | 63.4 | 354.6 | -2.5 | 0.378 |
| 4-3720 | 4-4080 | 0.865 | 295.5 | -28.3 | -7.61 | 1.135 | 43.4 | 0.757 | 1.467 | 120.4 | 190.0 | --- | 2.578 | -2.90 | 0.362 | 62.6 | 357.1 | -2.5 | 0.370 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3720 | 4-4100 | 0.838 | 297.4 | -28.3 | -7.35 | 1.142 | 45.2 | 0.741 | 1.502 | 116.7 | 191.3 | --- | 2.616 | -2.82 | 0.376 | 62.0 | 359.7 | -2.6 | 0.363 |
| 4-3720 | 4-4120 | 0.813 | 299.4 | -28.2 | -7.10 | 1.149 | 46.9 | 0.726 | 1.536 | 113.1 | 192.6 | --- | 2.652 | -2.77 | 0.389 | 61.4 | 2.5 | -2.7 | 0.356 |
| 4-3720 | 4-4140 | 0.788 | 301.3 | -28.1 | -6.87 | 1.155 | 48.6 | 0.713 | 1.570 | 109.6 | 193.9 | --- | 2.688 | -2.73 | 0.401 | 61.0 | 5.5 | -2.7 | 0.350 |
| 4-3720 | 4-4160 | 0.763 | 303.1 | -27.9 | -6.64 | 1.160 | 50.2 | 0.699 | 1.602 | 106.1 | 195.1 | --- | 2.723 | -2.72 | 0.412 | 60.7 | 8.5 | -2.8 | 0.344 |
| 4-3720 | 4-4180 | 0.740 | 305.0 | -27.7 | -6.42 | 1.165 | 51.7 | 0.687 | 1.634 | 102.6 | 196.4 | --- | 2.757 | -2.73 | 0.422 | 60.4 | 11.6 | -3.0 | 0.339 |
| 4-3720 | 4-4200 | 0.717 | 306.8 | -27.5 | -6.19 | 1.170 | 53.2 | 0.676 | 1.666 | 99.2 | 197.7 | --- | 2.791 | -2.75 | 0.432 | 60.1 | 14.8 | -3.1 | 0.334 |
| 4-3720 | 4-4220 | 0.694 | 308.6 | -27.2 | -5.96 | 1.175 | 54.7 | 0.665 | 1.696 | 95.8 | 198.9 | --- | 2.824 | -2.79 | 0.441 | 59.9 | 18.0 | -3.2 | 0.329 |
| 4-3720 | 4-4240 | 0.672 | 310.4 | -26.9 | -5.72 | 1.179 | 56.1 | 0.654 | 1.726 | 92.5 | 200.2 | --- | 2.855 | -2.86 | 0.450 | 59.7 | 21.4 | -3.4 | 0.325 |
| 4-3720 | 4-4260 | 0.651 | 312.2 | -26.5 | -5.48 | 1.183 | 57.4 | 0.645 | 1.755 | 89.1 | 201.5 | --- | 2.886 | -2.94 | 0.459 | 59.5 | 24.7 | -3.6 | 0.321 |
| 4-3720 | 4-4280 | 0.630 | 314.0 | -26.1 | -5.21 | 1.187 | 58.8 | 0.636 | 1.783 | 85.8 | 202.7 | --- | 2.916 | -3.05 | 0.467 | 59.3 | 28.2 | -3.9 | 0.317 |
| 4-3720 | 4-4300 | 0.609 | 315.8 | -25.6 | -4.93 | 1.191 | 60.1 | 0.627 | 1.810 | 82.6 | 204.0 | --- | 2.946 | -3.19 | 0.475 | 59.1 | 31.7 | -4.2 | 0.313 |
| 4-3720 | 4-4320 | 0.588 | 317.6 | -24.9 | -4.61 | 1.194 | 61.4 | 0.619 | 1.837 | 79.3 | 205.3 | --- | 2.974 | -3.36 | 0.483 | 58.9 | 35.2 | -4.5 | 0.310 |
| 4-3720 | 4-4340 | 0.568 | 319.4 | -24.1 | -4.26 | 1.197 | 62.6 | 0.612 | 1.862 | 76.1 | 206.6 | --- | 3.002 | -3.58 | 0.491 | 58.8 | 38.9 | -4.9 | 0.308 |
| 4-3720 | 4-4360 | 0.548 | 321.2 | -23.2 | -3.86 | 1.200 | 63.9 | 0.605 | 1.887 | 72.8 | 208.0 | --- | 3.029 | -3.86 | 0.499 | 58.6 | 42.5 | -5.4 | 0.305 |
| 4-3720 | 4-4380 | 0.528 | 323.0 | -22.0 | -3.38 | 1.203 | 65.1 | 0.598 | 1.911 | 69.6 | 209.3 | --- | 3.055 | -4.21 | 0.506 | 58.5 | 46.3 | -6.0 | 0.303 |
| 4-3720 | 4-4400 | 0.508 | 324.7 | -20.5 | -2.81 | 1.206 | 66.3 | 0.592 | 1.935 | 66.4 | 210.7 | --- | 3.081 | -4.66 | 0.514 | 58.4 | 50.1 | -6.8 | 0.302 |
| 4-3720 | 4-4420 | 0.489 | 326.3 | -18.6 | -2.08 | 1.208 | 67.5 | 0.587 | 1.958 | 63.2 | 212.1 | --- | 3.106 | -5.27 | 0.522 | 58.2 | 54.0 | -7.8 | 0.301 |
| 4-3720 | 4-4440 | 0.469 | 327.7 | -15.9 | -1.12 | 1.210 | 68.7 | 0.581 | 1.980 | 60.0 | 213.5 | --- | 3.131 | -6.11 | 0.530 | 58.1 | 58.0 | -9.2 | 0.301 |
| 4-3720 | 4-4460 | 0.451 | 328.7 | -12.1 | 0.21 | 1.213 | 69.9 | 0.576 | 2.001 | 56.7 | 214.9 | --- | 3.155 | -7.33 | 0.538 | 58.0 | 62.1 | -11.1 | 0.302 |
| 4-3720 | 4-4480 | 0.435 | 329.0 | -6.3 | 2.24 | 1.215 | 71.1 | 0.572 | 2.022 | 53.5 | 216.3 | --- | 3.179 | -9.24 | 0.546 | 57.9 | 66.5 | -14.0 | 0.306 |
| 4-3720 | 4-4500 | 0.430 | 327.2 | 3.5 | 5.77 | 1.217 | 72.2 | 0.568 | 2.043 | 50.3 | 217.7 | --- | 3.203 | -12.66 | 0.554 | 57.7 | 71.5 | -18.9 | 0.316 |
| 4-3720 | 4-4520 | 0.472 | 319.3 | 21.3 | 13.45 | 1.219 | 73.4 | 0.564 | 2.062 | 47.1 | 219.2 | --- | 3.228 | -20.23 | 0.562 | 57.6 | 78.5 | -28.0 | 0.350 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3960 | 4-4160 | 0.873 | 356.8 | 16.2 | 13.18 | 1.344 | 127.7 | 0.881 | 5.026 | 278.4 | 488.9 | 0.599 | --- | -14.03 | 0.771 | 146.9 | 124.1 | -9.0 | 0.650 |
| 4-3960 | 4-4180 | 0.793 | 356.7 | 15.0 | 11.19 | 1.299 | 125.2 | 0.802 | 3.148 | 278.9 | 494.0 | 0.622 | --- | -12.35 | 0.687 | 142.5 | 126.0 | -9.2 | 0.557 |
| 4-3960 | 4-4200 | 0.732 | 356.6 | 13.8 | 9.62 | 1.266 | 123.1 | 0.742 | 2.487 | 279.4 | 499.0 | 0.642 | --- | -11.10 | 0.620 | 137.9 | 127.4 | -9.6 | 0.481 |
| 4-3960 | 4-4220 | 0.684 | 356.7 | 12.7 | 8.34 | 1.241 | 121.5 | 0.695 | 2.158 | 279.8 | 504.0 | 0.658 | --- | -10.14 | 0.566 | 133.0 | 128.3 | -10.1 | 0.417 |
| 4-3960 | 4-4240 | 0.647 | 356.8 | 11.6 | 7.26 | 1.223 | 120.2 | 0.659 | 1.968 | 280.2 | 509.0 | 0.672 | --- | -9.40 | 0.523 | 128.0 | 128.6 | -10.7 | 0.364 |
| 4-3960 | 4-4260 | 0.618 | 356.9 | 10.5 | 6.32 | 1.210 | 119.1 | 0.631 | 1.849 | 280.4 | 513.8 | 0.682 | --- | -8.81 | 0.489 | 122.8 | 128.1 | -11.3 | 0.321 |
| 4-3960 | 4-4280 | 0.597 | 357.2 | 9.4 | 5.49 | 1.200 | 118.4 | 0.611 | 1.769 | 280.6 | 518.4 | 0.689 | --- | -8.34 | 0.482 | 117.5 | 126.9 | -12.1 | 0.285 |
| 4-3960 | 4-4300 | 0.582 | 357.6 | 8.4 | 4.74 | 1.192 | 117.9 | 0.596 | 1.716 | 280.5 | 522.9 | 0.693 | --- | -7.97 | 0.442 | 112.1 | 124.8 | -12.8 | 0.256 |
| 4-3960 | 4-4320 | 0.573 | 358.1 | 7.3 | 4.06 | 1.187 | 117.6 | 0.586 | 1.679 | 280.3 | 527.2 | 0.695 | --- | -7.68 | 0.427 | 106.8 | 121.9 | -13.5 | 0.233 |
| 4-3960 | 4-4340 | 0.568 | 358.7 | 6.3 | 3.41 | 1.183 | 117.5 | 0.580 | 1.653 | 279.9 | 531.3 | 0.694 | --- | -7.45 | 0.416 | 101.6 | 118.3 | -14.1 | 0.217 |
| 4-3960 | 4-4360 | 0.567 | 359.4 | 5.4 | 2.80 | 1.180 | 117.6 | 0.578 | 1.636 | 279.2 | 535.2 | 0.691 | --- | -7.28 | 0.409 | 96.6 | 114.3 | -14.4 | 0.207 |
| 4-3960 | 4-4380 | 0.570 | 0.3 | 4.5 | 2.22 | 1.179 | 117.9 | 0.579 | 1.625 | 278.3 | 538.8 | 0.685 | --- | -7.16 | 0.405 | 91.7 | 110.1 | -14.4 | 0.202 |
| 4-3960 | 4-4400 | 0.577 | 1.2 | 3.7 | 1.64 | 1.178 | 118.3 | 0.582 | 1.619 | 277.1 | 542.2 | 0.676 | 2.563 | -7.08 | 0.405 | 86.9 | 106.3 | -14.2 | 0.203 |
| 4-3960 | 4-4420 | 0.588 | 2.3 | 3.0 | 1.07 | 1.177 | 119.0 | 0.589 | 1.617 | 275.7 | 545.4 | 0.665 | 2.569 | -7.06 | 0.406 | 82.4 | 103.1 | -13.7 | 0.208 |
| 4-3960 | 4-4440 | 0.602 | 3.4 | 2.4 | 0.50 | 1.177 | 119.8 | 0.598 | 1.618 | 274.0 | 548.3 | 0.651 | 2.584 | -7.08 | 0.409 | 78.1 | 100.8 | -13.1 | 0.218 |
| 4-3960 | 4-4460 | 0.619 | 4.7 | 1.9 | -0.08 | 1.178 | 120.8 | 0.609 | 1.621 | 272.1 | 551.0 | 0.634 | 2.607 | -7.14 | 0.414 | 74.0 | 99.4 | -12.4 | 0.230 |
| 4-3960 | 4-4480 | 0.641 | 6.1 | 1.5 | -0.68 | 1.179 | 122.0 | 0.622 | 1.625 | 269.8 | 553.4 | 0.614 | 2.637 | -7.26 | 0.421 | 70.0 | 98.9 | -11.7 | 0.246 |
| 4-3960 | 4-4500 | 0.666 | 7.6 | 1.2 | -1.31 | 1.180 | 123.3 | 0.638 | 1.632 | 267.2 | 555.5 | 0.590 | 2.673 | -7.44 | 0.428 | 66.1 | 99.4 | -11.0 | 0.264 |
| 4-3960 | 4-4520 | 0.695 | 9.2 | 1.0 | -1.99 | 1.181 | 124.9 | 0.656 | 1.639 | 264.3 | 557.4 | 0.563 | 2.716 | -7.67 | 0.437 | 62.3 | 100.6 | -10.4 | 0.285 |
| 4-3960 | 4-4540 | 0.728 | 11.0 | 0.9 | -2.72 | 1.182 | 126.8 | 0.677 | 1.648 | 261.0 | 558.9 | 0.532 | 2.764 | -7.99 | 0.446 | 58.6 | 102.5 | -9.9 | 0.309 |
| 4-3960 | 4-4560 | 0.766 | 12.9 | 0.9 | -3.54 | 1.184 | 128.9 | 0.700 | 1.658 | 257.4 | 560.1 | 0.497 | 2.819 | -8.40 | 0.456 | 54.9 | 105.1 | -9.3 | 0.335 |
| 4-3960 | 4-4580 | 0.810 | 14.9 | 1.0 | -4.46 | 1.185 | 131.3 | 0.726 | 1.669 | 253.3 | 561.0 | 0.458 | 2.881 | -8.93 | 0.466 | 51.1 | 108.2 | -8.9 | 0.364 |
| 4-3960 | 4-4600 | 0.860 | 17.1 | 1.3 | -5.52 | 1.187 | 134.0 | 0.754 | 1.681 | 248.8 | 561.4 | 0.414 | 2.949 | -9.62 | 0.477 | 47.3 | 111.9 | -8.5 | 0.397 |
| 4-3970 | 4-4190 | 0.776 | 2.2 | 22.0 | 13.58 | 1.303 | 123.2 | 0.801 | 3.326 | 283.8 | 491.5 | 0.661 | --- | -15.48 | 0.698 | 142.0 | 129.3 | -11.7 | 0.565 |
| 4-3970 | 4-4210 | 0.708 | 2.1 | 20.0 | 11.24 | 1.270 | 121.1 | 0.737 | 2.587 | 284.4 | 496.6 | 0.682 | --- | -13.46 | 0.632 | 137.4 | 131.0 | -11.8 | 0.487 |
| 4-3970 | 4-4230 | 0.656 | 2.2 | 18.1 | 9.44 | 1.245 | 119.4 | 0.687 | 2.228 | 285.0 | 501.7 | 0.699 | --- | -11.97 | 0.578 | 132.7 | 132.2 | -12.0 | 0.423 |
| 4-3970 | 4-4250 | 0.616 | 2.4 | 16.5 | 7.99 | 1.226 | 118.0 | 0.648 | 2.022 | 285.5 | 506.7 | 0.712 | --- | -10.84 | 0.535 | 127.8 | 132.8 | -12.4 | 0.369 |
| 4-3970 | 4-4270 | 0.585 | 2.6 | 14.9 | 6.79 | 1.213 | 117.0 | 0.618 | 1.893 | 285.9 | 511.7 | 0.723 | --- | -9.97 | 0.501 | 122.8 | 132.7 | -13.0 | 0.324 |
| 4-3970 | 4-4290 | 0.562 | 2.9 | 13.4 | 5.76 | 1.202 | 116.1 | 0.596 | 1.808 | 286.1 | 516.5 | 0.731 | --- | -9.28 | 0.475 | 117.7 | 131.9 | -13.7 | 0.287 |
| 4-3970 | 4-4310 | 0.545 | 3.4 | 12.0 | 4.86 | 1.195 | 115.6 | 0.579 | 1.750 | 286.3 | 521.1 | 0.737 | --- | -8.73 | 0.454 | 112.6 | 130.3 | -14.4 | 0.257 |
| 4-3970 | 4-4330 | 0.534 | 3.9 | 10.6 | 4.05 | 1.189 | 115.2 | 0.567 | 1.709 | 286.2 | 525.5 | 0.739 | --- | -8.30 | 0.439 | 107.5 | 127.8 | -15.0 | 0.233 |
| 4-3970 | 4-4350 | 0.527 | 4.5 | 9.3 | 3.32 | 1.185 | 115.0 | 0.560 | 1.681 | 285.9 | 529.7 | 0.740 | --- | -7.95 | 0.428 | 102.5 | 124.6 | -15.6 | 0.215 |
| 4-3970 | 4-4370 | 0.524 | 5.3 | 8.2 | 2.64 | 1.182 | 115.0 | 0.556 | 1.662 | 285.4 | 533.8 | 0.738 | --- | -7.67 | 0.421 | 97.7 | 120.7 | -16.0 | 0.202 |
| 4-3970 | 4-4390 | 0.525 | 6.1 | 7.1 | 2.00 | 1.180 | 115.2 | 0.555 | 1.650 | 284.6 | 537.6 | 0.734 | --- | -7.46 | 0.417 | 93.0 | 116.6 | -16.1 | 0.195 |
| 4-3970 | 4-4410 | 0.530 | 7.1 | 6.1 | 1.39 | 1.179 | 115.6 | 0.557 | 1.642 | 283.7 | 541.1 | 0.727 | 2.558 | -7.30 | 0.416 | 88.6 | 112.6 | -15.9 | 0.193 |
| 4-3970 | 4-4430 | 0.538 | 8.2 | 5.2 | 0.80 | 1.178 | 116.1 | 0.562 | 1.639 | 282.4 | 544.5 | 0.718 | 2.559 | -7.20 | 0.417 | 84.3 | 109.1 | -15.4 | 0.196 |
| 4-3970 | 4-4450 | 0.550 | 9.3 | 4.5 | 0.21 | 1.178 | 116.8 | 0.569 | 1.638 | 280.9 | 547.6 | 0.707 | 2.570 | -7.14 | 0.421 | 80.2 | 106.3 | -14.7 | 0.203 |
| 4-3970 | 4-4470 | 0.564 | 10.6 | 3.8 | -0.37 | 1.178 | 117.6 | 0.578 | 1.640 | 279.1 | 550.5 | 0.692 | 2.588 | -7.13 | 0.425 | 76.3 | 104.4 | -13.9 | 0.213 |
| 4-3970 | 4-4490 | 0.583 | 12.0 | 3.3 | -0.96 | 1.179 | 118.6 | 0.589 | 1.644 | 277.1 | 553.1 | 0.675 | 2.612 | -7.17 | 0.431 | 72.6 | 103.5 | -13.1 | 0.226 |
| 4-3970 | 4-4510 | 0.604 | 13.5 | 2.9 | -1.57 | 1.180 | 119.8 | 0.603 | 1.649 | 274.7 | 555.5 | 0.655 | 2.643 | -7.26 | 0.438 | 69.0 | 103.5 | -12.3 | 0.242 |
| 4-3970 | 4-4530 | 0.629 | 15.1 | 2.6 | -2.20 | 1.181 | 121.2 | 0.618 | 1.656 | 272.0 | 557.6 | 0.632 | 2.681 | -7.40 | 0.446 | 65.5 | 104.3 | -11.6 | 0.260 |
| 4-3970 | 4-4550 | 0.658 | 16.8 | 2.4 | -2.87 | 1.182 | 122.8 | 0.637 | 1.664 | 269.0 | 559.5 | 0.605 | 2.724 | -7.61 | 0.455 | 62.0 | 105.8 | -10.9 | 0.281 |
| 4-3970 | 4-4570 | 0.692 | 18.6 | 2.4 | -3.60 | 1.184 | 124.6 | 0.657 | 1.673 | 265.7 | 561.0 | 0.574 | 2.773 | -7.89 | 0.464 | 58.6 | 108.0 | -10.3 | 0.305 |
| 4-3970 | 4-4590 | 0.730 | 20.5 | 2.5 | -4.40 | 1.185 | 126.7 | 0.680 | 1.683 | 261.9 | 562.3 | 0.539 | 2.828 | -8.27 | 0.474 | 55.2 | 110.8 | -9.8 | 0.331 |
| 4-3970 | 4-4610 | 0.773 | 22.6 | 2.7 | -5.30 | 1.187 | 129.0 | 0.706 | 1.694 | 257.7 | 563.1 | 0.499 | 2.898 | -8.76 | 0.485 | 51.7 | 114.1 | -9.3 | 0.360 |
| 4-3980 | 4-4200 | 0.774 | 7.2 | 31.8 | 17.75 | 1.306 | 121.1 | 0.799 | 3.489 | 288.6 | 489.1 | 0.700 | --- | -20.36 | 0.707 | 141.4 | 131.8 | -15.4 | 0.578 |
| 4-3980 | 4-4220 | 0.693 | 7.1 | 27.9 | 13.90 | 1.273 | 119.0 | 0.731 | 2.679 | 289.4 | 494.3 | 0.721 | --- | -16.81 | 0.641 | 136.9 | 134.1 | -14.8 | 0.496 |
| 4-3980 | 4-4240 | 0.633 | 7.3 | 24.8 | 11.18 | 1.248 | 117.3 | 0.678 | 2.292 | 290.2 | 499.5 | 0.738 | --- | -14.38 | 0.588 | 132.3 | 135.7 | -14.6 | 0.430 |
| 4-3980 | 4-4260 | 0.588 | 7.5 | 22.2 | 9.13 | 1.229 | 115.9 | 0.637 | 2.072 | 290.9 | 504.7 | 0.752 | --- | -12.63 | 0.545 | 127.5 | 136.6 | -14.6 | 0.374 |
| 4-3980 | 4-4280 | 0.553 | 7.8 | 19.9 | 7.51 | 1.215 | 114.8 | 0.605 | 1.934 | 291.4 | 509.7 | 0.763 | --- | -11.32 | 0.512 | 122.6 | 136.9 | -14.9 | 0.328 |
| 4-3980 | 4-4300 | 0.528 | 8.2 | 17.7 | 6.19 | 1.204 | 113.9 | 0.581 | 1.843 | 291.8 | 514.6 | 0.772 | --- | -10.32 | 0.485 | 117.7 | 136.5 | -15.4 | 0.290 |
| 4-3980 | 4-4320 | 0.509 | 8.8 | 15.8 | 5.08 | 1.196 | 113.3 | 0.563 | 1.781 | 292.1 | 519.4 | 0.778 | --- | -9.53 | 0.465 | 112.7 | 135.2 | -16.0 | 0.258 |
| 4-3980 | 4-4340 | 0.495 | 9.4 | 14.0 | 4.12 | 1.191 | 112.9 | 0.550 | 1.738 | 292.2 | 524.0 | 0.782 | --- | -8.91 | 0.450 | 107.9 | 133.2 | -16.5 | 0.233 |
| 4-3980 | 4-4360 | 0.487 | 10.1 | 12.3 | 3.27 | 1.186 | 112.6 | 0.541 | 1.707 | 292.0 | 528.3 | 0.783 | --- | -8.41 | 0.439 | 103.1 | 130.3 | -17.1 | 0.213 |
| 4-3980 | 4-4380 | 0.483 | 10.9 | 10.8 | 2.50 | 1.183 | 112.6 | 0.536 | 1.687 | 291.7 | 532.5 | 0.783 | --- | -8.01 | 0.432 | 98.5 | 126.7 | -17.4 | 0.199 |
| 4-3980 | 4-4400 | 0.482 | 11.8 | 9.5 | 1.80 | 1.181 | 112.7 | 0.534 | 1.673 | 291.1 | 536.5 | 0.780 | --- | -7.69 | 0.428 | 94.0 | 122.7 | -17.5 | 0.190 |
| 4-3980 | 4-4420 | 0.485 | 12.8 | 8.3 | 1.14 | 1.180 | 112.9 | 0.534 | 1.664 | 290.2 | 540.2 | 0.775 | 2.553 | -7.44 | 0.427 | 89.8 | 118.7 | -17.3 | 0.186 |
| 4-3980 | 4-4440 | 0.491 | 13.9 | 7.2 | 0.52 | 1.179 | 113.4 | 0.537 | 1.659 | 289.1 | 543.7 | 0.768 | 2.551 | -7.25 | 0.428 | 85.7 | 114.9 | -16.8 | 0.186 |
| 4-3980 | 4-4460 | 0.501 | 15.1 | 6.3 | -0.08 | 1.179 | 113.9 | 0.543 | 1.658 | 287.8 | 547.0 | 0.758 | 2.558 | -7.12 | 0.431 | 81.9 | 111.8 | -16.1 | 0.190 |
| 4-3980 | 4-4480 | 0.513 | 16.4 | 5.5 | -0.67 | 1.179 | 114.6 | 0.550 | 1.659 | 286.1 | 550.0 | 0.746 | 2.571 | -7.03 | 0.435 | 78.2 | 109.5 | -15.2 | 0.198 |
| 4-3980 | 4-4500 | 0.529 | 17.8 | 4.8 | -1.25 | 1.179 | 115.5 | 0.559 | 1.662 | 284.2 | 552.9 | 0.732 | 2.592 | -6.99 | 0.441 | 74.7 | 108.1 | -14.3 | 0.209 |
| 4-3980 | 4-4520 | 0.547 | 19.3 | 4.3 | -1.83 | 1.180 | 116.5 | 0.571 | 1.667 | 282.1 | 555.4 | 0.715 | 2.618 | -7.00 | 0.448 | 71.3 | 107.7 | -13.4 | 0.223 |
| 4-3980 | 4-4540 | 0.569 | 20.9 | 4.0 | -2.43 | 1.181 | 117.7 | 0.584 | 1.673 | 279.6 | 557.8 | 0.695 | 2.650 | -7.06 | 0.456 | 68.1 | 108.1 | -12.5 | 0.239 |
| 4-3980 | 4-4560 | 0.595 | 22.6 | 3.7 | -3.05 | 1.182 | 119.1 | 0.600 | 1.680 | 276.8 | 559.9 | 0.672 | 2.688 | -7.18 | 0.464 | 64.9 | 109.2 | -11.8 | 0.258 |
| 4-3980 | 4-4580 | 0.624 | 24.3 | 3.6 | -3.71 | 1.183 | 120.7 | 0.618 | 1.688 | 273.7 | 561.7 | 0.645 | 2.732 | -7.35 | 0.473 | 61.8 | 111.1 | -11.0 | 0.278 |
| 4-3980 | 4-4600 | 0.657 | 26.2 | 3.7 | -4.41 | 1.185 | 122.5 | 0.638 | 1.698 | 270.2 | 563.3 | 0.614 | 2.781 | -7.60 | 0.483 | 58.6 | 113.5 | -10.4 | 0.302 |
| 4-3980 | 4-4620 | 0.696 | 28.3 | 3.8 | -5.18 | 1.186 | 124.6 | 0.661 | 1.708 | 266.3 | 564.5 | 0.578 | 2.837 | -7.93 | 0.493 | 55.5 | 116.6 | -9.8 | 0.328 |
| 4-3990 | 4-4210 | 0.826 | 12.3 | 47.2 | 26.39 | 1.308 | 119.0 | 0.797 | 3.628 | 293.5 | 487.0 | 0.738 | --- | -29.67 | 0.714 | 140.7 | 132.3 | -21.6 | 0.609 |
| 4-3990 | 4-4230 | 0.701 | 11.4 | 39.5 | 18.83 | 1.275 | 116.9 | 0.725 | 2.758 | 294.6 | 492.3 | 0.759 | --- | -22.38 | 0.648 | 136.3 | 136.1 | -19.4 | 0.513 |
| 4-3990 | 4-4250 | 0.620 | 11.5 | 33.9 | 14.15 | 1.250 | 115.1 | 0.669 | 2.347 | 295.5 | 497.6 | 0.777 | --- | -17.97 | 0.596 | 131.7 | 138.4 | -18.2 | 0.440 |
| 4-3990 | 4-4270 | 0.565 | 11.9 | 29.5 | 10.97 | 1.231 | 113.7 | 0.626 | 2.115 | 296.4 | 502.8 | 0.791 | --- | -15.07 | 0.554 | 127.0 | 139.9 | -17.6 | 0.381 |
| 4-3990 | 4-4290 | 0.524 | 12.4 | 25.8 | 8.65 | 1.217 | 112.6 | 0.593 | 1.970 | 297.1 | 508.0 | 0.802 | --- | -13.04 | 0.520 | 122.3 | 140.6 | -17.4 | 0.333 |
| 4-3990 | 4-4310 | 0.494 | 13.0 | 22.7 | 6.87 | 1.206 | 111.7 | 0.567 | 1.875 | 297.7 | 513.0 | 0.811 | --- | -11.55 | 0.494 | 117.5 | 140.5 | -17.4 | 0.293 |
| 4-3990 | 4-4330 | 0.473 | 13.7 | 19.9 | 5.45 | 1.198 | 111.0 | 0.548 | 1.809 | 298.1 | 517.9 | 0.818 | --- | -10.42 | 0.474 | 112.7 | 139.7 | -17.7 | 0.260 |
| 4-3990 | 4-4350 | 0.458 | 14.4 | 17.5 | 4.27 | 1.192 | 110.6 | 0.534 | 1.763 | 298.3 | 522.6 | 0.822 | --- | -9.54 | 0.459 | 108.0 | 138.0 | -18.1 | 0.233 |
| 4-3990 | 4-4370 | 0.448 | 15.2 | 15.3 | 3.26 | 1.187 | 110.3 | 0.524 | 1.731 | 298.3 | 527.1 | 0.824 | --- | -8.85 | 0.449 | 103.4 | 135.5 | -18.5 | 0.212 |
| 4-3990 | 4-4390 | 0.442 | 16.1 | 13.4 | 2.39 | 1.184 | 110.2 | 0.518 | 1.709 | 298.0 | 531.4 | 0.824 | --- | -8.30 | 0.442 | 99.0 | 132.2 | -18.7 | 0.196 |
| 4-3990 | 4-4410 | 0.440 | 17.1 | 11.6 | 1.60 | 1.182 | 110.2 | 0.514 | 1.694 | 297.6 | 535.5 | 0.823 | --- | -7.85 | 0.438 | 94.7 | 128.3 | -18.8 | 0.185 |
| 4-3990 | 4-4430 | 0.442 | 18.2 | 10.1 | 0.89 | 1.181 | 110.4 | 0.514 | 1.684 | 296.8 | 539.4 | 0.819 | --- | -7.50 | 0.437 | 90.7 | 124.3 | -18.5 | 0.179 |
| 4-3990 | 4-4450 | 0.447 | 19.4 | 8.8 | 0.23 | 1.180 | 110.7 | 0.515 | 1.679 | 295.9 | 543.0 | 0.813 | 2.544 | -7.22 | 0.438 | 86.8 | 120.4 | -18.0 | 0.178 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-3990 | 4-4470 | 0.455 | 20.7 | 7.7 | -0.39 | 1.179 | 111.2 | 0.519 | 1.676 | 294.6 | 548.4 | 0.806 | 2.547 | -7.00 | 0.440 | 83.2 | 117.0 | -17.2 | 0.180 |
| 4-3990 | 4-4490 | 0.465 | 22.0 | 6.7 | -0.98 | 1.179 | 111.8 | 0.525 | 1.677 | 293.1 | 549.6 | 0.796 | 2.557 | -6.84 | 0.445 | 79.7 | 114.4 | -16.2 | 0.186 |
| 4-3990 | 4-4510 | 0.479 | 23.4 | 6.0 | -1.56 | 1.180 | 112.6 | 0.533 | 1.679 | 291.4 | 552.6 | 0.784 | 2.574 | -6.73 | 0.450 | 76.4 | 112.6 | -15.2 | 0.195 |
| 4-3990 | 4-4530 | 0.495 | 25.0 | 5.4 | -2.13 | 1.180 | 113.5 | 0.543 | 1.683 | 289.3 | 555.4 | 0.770 | 2.597 | -6.66 | 0.457 | 73.2 | 111.8 | -14.2 | 0.207 |
| 4-3990 | 4-4550 | 0.514 | 26.6 | 4.9 | -2.69 | 1.181 | 114.5 | 0.554 | 1.689 | 287.0 | 557.9 | 0.753 | 2.625 | -6.65 | 0.465 | 70.1 | 111.9 | -13.2 | 0.221 |
| 4-3990 | 4-4570 | 0.537 | 28.3 | 4.7 | -3.27 | 1.182 | 115.7 | 0.568 | 1.695 | 284.4 | 560.2 | 0.733 | 2.658 | -6.68 | 0.473 | 67.2 | 112.7 | -12.3 | 0.238 |
| 4-3990 | 4-4590 | 0.563 | 30.0 | 4.5 | -3.86 | 1.183 | 117.1 | 0.584 | 1.703 | 281.5 | 562.3 | 0.709 | 2.697 | -6.77 | 0.482 | 64.3 | 114.2 | -11.5 | 0.256 |
| 4-3990 | 4-4610 | 0.592 | 31.9 | 4.5 | -4.49 | 1.185 | 118.7 | 0.601 | 1.712 | 278.2 | 564.1 | 0.682 | 2.741 | -6.91 | 0.491 | 61.4 | 116.4 | -10.8 | 0.277 |
| 4-3990 | 4-4630 | 0.626 | 33.9 | 4.7 | -5.15 | 1.186 | 120.6 | 0.622 | 1.721 | 274.5 | 565.6 | 0.651 | 2.792 | -7.12 | 0.501 | 58.6 | 119.2 | -10.2 | 0.300 |
| 4-4000 | 4-4240 | 0.801 | 16.6 | 59.1 | 30.25 | 1.276 | 114.7 | 0.718 | 2.818 | 299.6 | 490.5 | 0.796 | --- | -34.41 | 0.653 | 135.6 | 134.5 | -27.3 | 0.563 |
| 4-4000 | 4-4260 | 0.645 | 14.7 | 48.0 | 20.09 | 1.251 | 112.9 | 0.660 | 2.391 | 300.9 | 495.8 | 0.814 | --- | -24.50 | 0.602 | 131.1 | 139.6 | -24.0 | 0.463 |
| 4-4000 | 4-4280 | 0.557 | 15.2 | 39.9 | 14.30 | 1.232 | 111.5 | 0.615 | 2.150 | 302.0 | 501.2 | 0.829 | --- | -18.95 | 0.560 | 126.5 | 142.3 | -21.8 | 0.393 |
| 4-4000 | 4-4300 | 0.502 | 16.0 | 33.7 | 10.58 | 1.218 | 110.3 | 0.580 | 2.000 | 303.0 | 506.5 | 0.840 | --- | -15.49 | 0.527 | 121.8 | 143.6 | -20.6 | 0.340 |
| 4-4000 | 4-4320 | 0.465 | 17.0 | 28.8 | 7.98 | 1.207 | 109.4 | 0.554 | 1.901 | 303.7 | 511.7 | 0.849 | --- | -13.14 | 0.502 | 117.1 | 144.0 | -20.0 | 0.297 |
| 4-4000 | 4-4340 | 0.439 | 17.9 | 24.7 | 6.05 | 1.199 | 108.7 | 0.533 | 1.834 | 304.3 | 516.7 | 0.856 | --- | -11.47 | 0.482 | 112.5 | 143.6 | -19.8 | 0.262 |
| 4-4000 | 4-4360 | 0.421 | 18.9 | 21.3 | 4.53 | 1.193 | 108.2 | 0.518 | 1.786 | 304.6 | 521.5 | 0.860 | --- | -10.22 | 0.468 | 107.9 | 142.2 | -19.8 | 0.233 |
| 4-4000 | 4-4380 | 0.409 | 19.9 | 18.3 | 3.31 | 1.188 | 107.9 | 0.508 | 1.753 | 304.7 | 526.1 | 0.863 | --- | -9.27 | 0.457 | 103.5 | 140.0 | -19.9 | 0.211 |
| 4-4000 | 4-4400 | 0.403 | 20.9 | 15.7 | 2.28 | 1.185 | 107.8 | 0.501 | 1.729 | 304.6 | 530.5 | 0.863 | --- | -8.53 | 0.450 | 99.2 | 137.0 | -19.9 | 0.193 |
| 4-4000 | 4-4420 | 0.400 | 22.1 | 13.5 | 1.39 | 1.183 | 107.8 | 0.497 | 1.713 | 304.2 | 534.7 | 0.862 | --- | -7.94 | 0.447 | 95.2 | 133.4 | -19.8 | 0.181 |
| 4-4000 | 4-4440 | 0.401 | 23.3 | 11.6 | 0.61 | 1.181 | 107.9 | 0.495 | 1.703 | 303.6 | 538.7 | 0.860 | --- | -7.46 | 0.446 | 91.3 | 129.4 | -19.5 | 0.174 |
| 4-4000 | 4-4460 | 0.404 | 24.5 | 9.9 | -0.09 | 1.180 | 108.2 | 0.496 | 1.696 | 302.7 | 542.5 | 0.855 | 2.538 | -7.09 | 0.447 | 87.6 | 125.4 | -18.8 | 0.171 |
| 4-4000 | 4-4480 | 0.411 | 25.9 | 8.6 | -0.73 | 1.180 | 108.6 | 0.499 | 1.694 | 301.6 | 546.0 | 0.849 | 2.536 | -6.78 | 0.449 | 84.1 | 121.8 | -17.9 | 0.171 |
| 4-4000 | 4-4500 | 0.420 | 27.3 | 7.5 | -1.34 | 1.180 | 109.1 | 0.503 | 1.693 | 300.2 | 549.4 | 0.841 | 2.548 | -6.55 | 0.454 | 80.8 | 118.9 | -16.9 | 0.176 |
| 4-4000 | 4-4520 | 0.432 | 28.8 | 6.6 | -1.91 | 1.180 | 109.8 | 0.510 | 1.695 | 298.5 | 552.5 | 0.831 | 2.559 | -6.37 | 0.459 | 77.6 | 116.9 | -15.7 | 0.183 |
| 4-4000 | 4-4540 | 0.447 | 30.4 | 5.9 | -2.45 | 1.181 | 110.6 | 0.518 | 1.699 | 296.6 | 555.4 | 0.819 | 2.579 | -6.24 | 0.466 | 74.6 | 115.8 | -14.6 | 0.194 |
| 4-4000 | 4-4560 | 0.464 | 32.1 | 5.4 | -2.99 | 1.181 | 111.5 | 0.528 | 1.704 | 294.4 | 558.1 | 0.804 | 2.604 | -6.15 | 0.473 | 71.8 | 115.5 | -13.5 | 0.206 |
| 4-4000 | 4-4580 | 0.484 | 33.8 | 5.1 | -3.53 | 1.182 | 112.6 | 0.540 | 1.710 | 291.9 | 560.6 | 0.787 | 2.633 | -6.12 | 0.481 | 69.0 | 116.1 | -12.5 | 0.221 |
| 4-4000 | 4-4600 | 0.507 | 35.6 | 5.0 | -4.07 | 1.183 | 113.9 | 0.553 | 1.718 | 289.1 | 562.8 | 0.767 | 2.668 | -6.13 | 0.490 | 66.4 | 117.4 | -11.6 | 0.237 |
| 4-4000 | 4-4620 | 0.533 | 37.5 | 5.0 | -4.62 | 1.184 | 115.3 | 0.569 | 1.726 | 286.0 | 564.8 | 0.744 | 2.707 | -6.19 | 0.499 | 63.7 | 119.4 | -10.9 | 0.256 |
| 4-4000 | 4-4640 | 0.563 | 39.5 | 5.1 | -5.20 | 1.186 | 116.9 | 0.587 | 1.735 | 282.6 | 566.5 | 0.717 | 2.753 | -6.30 | 0.509 | 61.1 | 121.9 | -10.2 | 0.277 |
| 4-4010 | 4-4270 | 0.830 | 21.9 | 73.0 | 36.26 | 1.251 | 110.8 | 0.650 | 2.422 | 306.2 | 496.4 | 0.848 | --- | -41.21 | 0.605 | 130.4 | 134.4 | -33.7 | 0.547 |
| 4-4010 | 4-4290 | 0.606 | 16.3 | 57.1 | 21.69 | 1.232 | 109.2 | 0.603 | 2.177 | 307.8 | 499.9 | 0.864 | --- | -26.85 | 0.585 | 125.8 | 142.2 | -29.0 | 0.427 |
| 4-4010 | 4-4310 | 0.501 | 17.7 | 45.7 | 14.31 | 1.218 | 108.0 | 0.567 | 2.024 | 309.0 | 505.3 | 0.876 | --- | -19.69 | 0.533 | 121.2 | 145.5 | -25.7 | 0.355 |
| 4-4010 | 4-4330 | 0.443 | 19.5 | 37.3 | 9.95 | 1.207 | 107.1 | 0.540 | 1.923 | 310.0 | 510.6 | 0.884 | --- | -15.55 | 0.508 | 116.6 | 146.8 | -23.6 | 0.304 |
| 4-4010 | 4-4350 | 0.408 | 21.0 | 30.7 | 7.06 | 1.199 | 106.4 | 0.519 | 1.853 | 310.7 | 515.7 | 0.891 | --- | -12.88 | 0.488 | 112.1 | 146.9 | -22.4 | 0.265 |
| 4-4010 | 4-4370 | 0.386 | 22.5 | 25.5 | 4.99 | 1.193 | 105.9 | 0.504 | 1.805 | 311.1 | 520.7 | 0.895 | --- | -11.04 | 0.474 | 107.7 | 145.9 | -21.7 | 0.234 |
| 4-4010 | 4-4390 | 0.372 | 23.8 | 21.3 | 3.42 | 1.189 | 105.6 | 0.493 | 1.771 | 311.4 | 525.4 | 0.898 | --- | -9.71 | 0.464 | 103.4 | 144.0 | -21.3 | 0.210 |
| 4-4010 | 4-4410 | 0.364 | 25.1 | 17.8 | 2.18 | 1.186 | 105.4 | 0.485 | 1.747 | 311.3 | 529.9 | 0.899 | --- | -8.71 | 0.458 | 99.2 | 141.3 | -21.0 | 0.191 |
| 4-4010 | 4-4430 | 0.361 | 26.5 | 14.8 | 1.15 | 1.183 | 105.4 | 0.481 | 1.730 | 311.1 | 534.2 | 0.899 | --- | -7.93 | 0.454 | 95.3 | 137.8 | -20.6 | 0.177 |
| 4-4010 | 4-4450 | 0.361 | 27.8 | 12.4 | 0.29 | 1.182 | 105.5 | 0.478 | 1.719 | 310.5 | 538.3 | 0.897 | --- | -7.32 | 0.453 | 91.6 | 133.9 | -20.0 | 0.169 |
| 4-4010 | 4-4470 | 0.364 | 29.3 | 10.4 | -0.47 | 1.181 | 105.7 | 0.478 | 1.712 | 309.7 | 542.2 | 0.893 | 2.532 | -6.84 | 0.454 | 88.0 | 129.9 | -19.2 | 0.164 |
| 4-4010 | 4-4490 | 0.370 | 30.7 | 8.8 | -1.14 | 1.180 | 106.1 | 0.480 | 1.709 | 308.7 | 545.8 | 0.888 | 2.530 | -6.45 | 0.457 | 84.7 | 126.2 | -18.2 | 0.164 |
| 4-4010 | 4-4510 | 0.378 | 32.3 | 7.5 | -1.75 | 1.180 | 106.6 | 0.484 | 1.709 | 307.4 | 549.2 | 0.881 | 2.536 | -6.14 | 0.462 | 81.5 | 123.1 | -17.0 | 0.167 |
| 4-4010 | 4-4530 | 0.389 | 33.9 | 6.5 | -2.31 | 1.180 | 107.2 | 0.489 | 1.710 | 305.8 | 552.5 | 0.873 | 2.547 | -5.90 | 0.467 | 78.6 | 120.9 | -15.8 | 0.173 |
| 4-4010 | 4-4550 | 0.402 | 35.6 | 5.7 | -2.84 | 1.181 | 107.9 | 0.496 | 1.713 | 303.9 | 555.5 | 0.863 | 2.564 | -5.71 | 0.474 | 75.7 | 119.5 | -14.5 | 0.182 |
| 4-4010 | 4-4570 | 0.417 | 37.3 | 5.2 | -3.34 | 1.182 | 108.7 | 0.505 | 1.718 | 301.8 | 558.3 | 0.851 | 2.586 | -5.57 | 0.481 | 73.1 | 119.0 | -13.4 | 0.193 |
| 4-4010 | 4-4590 | 0.435 | 39.-1 | 4.9 | -3.84 | 1.182 | 109.7 | 0.515 | 1.724 | 299.4 | 560.9 | 0.836 | 2.612 | -5.47 | 0.489 | 70.5 | 119.4 | -12.3 | 0.206 |
| 4-4010 | 4-4610 | 0.456 | 40.9 | 4.8 | -4.32 | 1.183 | 110.8 | 0.527 | 1.731 | 296.7 | 563.3 | 0.819 | 2.643 | -5.42 | 0.498 | 68.0 | 120.5 | -11.4 | 0.222 |
| 4-4010 | 4-4630 | 0.479 | 42.9 | 4.9 | -4.81 | 1.184 | 112.1 | 0.540 | 1.739 | 293.7 | 565.5 | 0.799 | 2.679 | -5.42 | 0.507 | 65.6 | 122.3 | -10.5 | 0.239 |
| 4-4010 | 4-4650 | 0.506 | 44.9 | 5.1 | -5.31 | 1.186 | 113.6 | 0.556 | 1.748 | 290.4 | 567.4 | 0.778 | 2.720 | -5.45 | 0.516 | 63.2 | 124.7 | -9.8 | 0.258 |
| 4-4020 | 4-4220 | 0.730 | 55.8 | -21.5 | -22.11 | 1.352 | 112.8 | 0.875 | 6.824 | 310.9 | 475.4 | 0.850 | --- | 17.22 | 0.799 | 141.7 | 144.3 | 13.4 | 0.634 |
| 4-4020 | 4-4240 | 0.763 | 64.9 | -31.0 | -29.13 | 1.308 | 110.5 | 0.771 | 3.789 | 312.4 | 481.1 | 0.869 | --- | 24.06 | 0.720 | 137.6 | 144.0 | 20.3 | 0.571 |
| 4-4020 | 4-4260 | 0.945 | 84.3 | -39.6 | -44.05 | 1.275 | 108.5 | 0.691 | 2.870 | 314.2 | 486.9 | 0.888 | --- | 38.79 | 0.657 | 133.3 | 138.2 | 31.4 | 0.575 |
| 4-4020 | 4-4300 | 0.961 | 103.3 | 87.7 | 47.30 | 1.232 | 107.1 | 0.592 | 2.192 | 313.2 | 498.9 | 0.894 | --- | -52.93 | 0.567 | 125.1 | 130.1 | -39.4 | 0.583 |
| 4-4020 | 4-4320 | 0.591 | 14.5 | 67.0 | 23.96 | 1.218 | 105.7 | 0.555 | 2.039 | 315.2 | 504.4 | 0.908 | --- | -29.77 | 0.536 | 120.5 | 143.5 | -34.5 | 0.405 |
| 4-4020 | 4-4340 | 0.451 | 18.8 | 51.0 | 14.13 | 1.208 | 104.7 | 0.527 | 1.938 | 316.4 | 509.8 | 0.917 | --- | -20.12 | 0.512 | 115.9 | 148.1 | -29.5 | 0.322 |
| 4-4020 | 4-4360 | 0.387 | 22.1 | 39.5 | 8.97 | 1.200 | 104.0 | 0.506 | 1.869 | 317.4 | 515.1 | 0.923 | --- | -15.14 | 0.493 | 111.5 | 149.4 | -26.2 | 0.271 |
| 4-4020 | 4-4380 | 0.355 | 24.6 | 31.0 | 5.80 | 1.194 | 103.5 | 0.490 | 1.820 | 318.0 | 520.1 | 0.927 | --- | -12.16 | 0.480 | 107.2 | 149.0 | -24.2 | 0.235 |
| 4-4020 | 4-4400 | 0.337 | 26.6 | 24.5 | 3.65 | 1.189 | 103.2 | 0.479 | 1.785 | 318.3 | 525.0 | 0.930 | --- | -10.20 | 0.470 | 103.0 | 147.4 | -22.9 | 0.208 |
| 4-4020 | 4-4420 | 0.327 | 28.4 | 19.5 | 2.07 | 1.186 | 103.0 | 0.471 | 1.761 | 318.4 | 529.6 | 0.931 | --- | -8.82 | 0.464 | 99.0 | 144.9 | -22.0 | 0.188 |
| 4-4020 | 4-4440 | 0.323 | 30.1 | 15.5 | 0.86 | 1.184 | 103.0 | 0.466 | 1.744 | 318.2 | 534.0 | 0.931 | --- | -7.81 | 0.461 | 95.2 | 141.6 | -21.1 | 0.173 |
| 4-4020 | 4-4460 | 0.323 | 31.7 | 12.4 | -0.12 | 1.182 | 103.1 | 0.464 | 1.733 | 317.7 | 538.2 | 0.929 | --- | -7.04 | 0.460 | 91.6 | 137.7 | -20.2 | 0.163 |
| 4-4020 | 4-4480 | 0.326 | 33.3 | 9.9 | -0.93 | 1.181 | 103.3 | 0.463 | 1.726 | 316.9 | 542.1 | 0.927 | 2.528 | -6.44 | 0.462 | 88.2 | 133.7 | -19.1 | 0.158 |
| 4-4020 | 4-4500 | 0.331 | 35.0 | 8.0 | -1.63 | 1.181 | 103.6 | 0.464 | 1.723 | 315.9 | 545.8 | 0.923 | 2.523 | -5.97 | 0.465 | 85.0 | 130.0 | -17.9 | 0.157 |
| 4-4020 | 4-4520 | 0.339 | 36.7 | 6.5 | -2.24 | 1.180 | 104.1 | 0.467 | 1.722 | 314.6 | 549.3 | 0.917 | 2.527 | -5.60 | 0.469 | 82.0 | 126.8 | -16.5 | 0.159 |
| 4-4020 | 4-4540 | 0.349 | 38.4 | 5.4 | -2.79 | 1.181 | 104.6 | 0.472 | 1.724 | 313.1 | 552.6 | 0.910 | 2.537 | -5.30 | 0.475 | 79.2 | 124.4 | -15.2 | 0.164 |
| 4-4020 | 4-4560 | 0.361 | 40.2 | 4.7 | -3.30 | 1.181 | 105.3 | 0.478 | 1.727 | 311.3 | 555.7 | 0.902 | 2.552 | -5.06 | 0.481 | 76.5 | 122.9 | -13.9 | 0.172 |
| 4-4020 | 4-4580 | 0.375 | 42.1 | 4.2 | -3.77 | 1.182 | 106.0 | 0.485 | 1.731 | 309.2 | 558.6 | 0.892 | 2.571 | -4.88 | 0.488 | 74.0 | 122.3 | -12.6 | 0.182 |
| 4-4020 | 4-4600 | 0.391 | 44.0 | 3.9 | -4.21 | 1.183 | 106.9 | 0.494 | 1.737 | 306.9 | 561.3 | 0.879 | 2.596 | -4.74 | 0.497 | 71.6 | 122.5 | -11.5 | 0.194 |
| 4-4020 | 4-4620 | 0.409 | 45.9 | 3.9 | -4.64 | 1.184 | 108.0 | 0.504 | 1.744 | 304.3 | 563.8 | 0.865 | 2.623 | -4.64 | 0.505 | 69.3 | 123.5 | -10.6 | 0.208 |
| 4-4020 | 4-4640 | 0.430 | 48.0 | 4.1 | -5.07 | 1.185 | 109.2 | 0.516 | 1.752 | 301.4 | 566.1 | 0.848 | 2.656 | -4.58 | 0.514 | 67.1 | 125.1 | -9.7 | 0.224 |
| 4-4020 | 4-4660 | 0.454 | 50.1 | 4.4 | -5.49 | 1.186 | 110.5 | 0.530 | 1.760 | 298.1 | 568.2 | 0.828 | 2.693 | -4.56 | 0.523 | 64.9 | 127.4 | -9.0 | 0.241 |
| 4-4030 | 4-4230 | 0.620 | 53.4 | -13.5 | -14.90 | 1.348 | 110.1 | 0.864 | 6.529 | 316.8 | 474.1 | 0.886 | --- | 9.43 | 0.794 | 140.7 | 148.7 | 7.8 | 0.607 |
| 4-4030 | 4-4250 | 0.588 | 56.4 | -20.4 | -17.35 | 1.305 | 108.0 | 0.759 | 3.737 | 318.0 | 480.1 | 0.902 | --- | 11.74 | 0.717 | 136.6 | 150.2 | 10.9 | 0.527 |
| 4-4030 | 4-4270 | 0.595 | 61.7 | -28.8 | -21.37 | 1.273 | 106.2 | 0.679 | 2.857 | 319.6 | 486.1 | 0.917 | --- | 15.61 | 0.655 | 132.5 | 150.8 | 16.1 | 0.468 |
| 4-4030 | 4-4290 | 0.676 | 72.7 | -38.9 | -29.16 | 1.249 | 104.7 | 0.619 | 2.436 | 321.2 | 492.1 | 0.929 | --- | 23.26 | 0.607 | 128.1 | 149.1 | 25.3 | 0.441 |
| 4-4030 | 4-4310 | 0.975 | 99.9 | -45.9 | -49.30 | 1.231 | 103.2 | 0.571 | 2.197 | 323.2 | 498.0 | 0.941 | --- | 43.25 | 0.568 | 123.6 | 138.0 | 39.0 | 0.515 |
| 4-4030 | 4-4350 | 0.614 | 0.7 | 77.9 | 27.79 | 1.207 | 102.4 | 0.514 | 1.947 | 323.0 | 509.5 | 0.945 | --- | -34.13 | 0.514 | 115.1 | 142.9 | -40.3 | 0.404 |
| 4-4030 | 4-4370 | 0.404 | 17.8 | 55.2 | 13.59 | 1.199 | 101.6 | 0.493 | 1.878 | 324.3 | 514.8 | 0.952 | --- | -20.07 | 0.497 | 110.8 | 150.0 | -33.0 | 0.293 |
| 4-4030 | 4-4390 | 0.333 | 24.1 | 39.4 | 7.47 | 1.194 | 101.1 | 0.478 | 1.830 | 325.1 | 520.0 | 0.956 | --- | -14.09 | 0.484 | 106.5 | 151.1 | -28.0 | 0.240 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4030 | 4-4410 | 0.304 | 27.8 | 28.5 | 4.09 | 1.189 | 100.8 | 0.467 | 1.796 | 325.5 | 524.9 | 0.958 | --- | -10.86 | 0.475 | 102.4 | 150.1 | -24.9 | 0.207 |
| 4-4030 | 4-4430 | 0.292 | 30.5 | 20.7 | 1.94 | 1.186 | 100.6 | 0.459 | 1.772 | 325.7 | 529.6 | 0.959 | --- | -8.87 | 0.469 | 98.6 | 147.9 | -22.8 | 0.185 |
| 4-4030 | 4-4450 | 0.288 | 32.8 | 15.1 | 0.44 | 1.184 | 100.6 | 0.454 | 1.755 | 325.5 | 534.1 | 0.959 | --- | -7.52 | 0.466 | 94.9 | 144.6 | -21.2 | 0.169 |
| 4-4030 | 4-4470 | 0.288 | 34.7 | 11.0 | -0.68 | 1.182 | 100.7 | 0.451 | 1.744 | 325.1 | 538.3 | 0.958 | --- | -6.56 | 0.466 | 91.4 | 140.8 | -19.7 | 0.158 |
| 4-4030 | 4-4490 | 0.291 | 36.6 | 8.0 | -1.55 | 1.181 | 100.9 | 0.450 | 1.738 | 324.3 | 542.3 | 0.956 | 2.520 | -5.84 | 0.468 | 88.1 | 136.8 | -18.2 | 0.152 |
| 4-4030 | 4-4510 | 0.296 | 38.5 | 5.7 | -2.27 | 1.181 | 101.2 | 0.451 | 1.734 | 323.3 | 546.0 | 0.952 | 2.517 | -5.29 | 0.471 | 85.1 | 133.1 | -16.8 | 0.150 |
| 4-4030 | 4-4530 | 0.304 | 40.4 | 4.1 | -2.88 | 1.181 | 101.6 | 0.453 | 1.734 | 322.1 | 549.6 | 0.948 | 2.520 | -4.87 | 0.476 | 82.2 | 129.8 | -15.3 | 0.152 |
| 4-4030 | 4-4550 | 0.313 | 42.3 | 3.0 | -3.40 | 1.181 | 102.1 | 0.457 | 1.735 | 320.6 | 552.9 | 0.942 | 2.528 | -4.53 | 0.481 | 79.5 | 127.4 | -13.8 | 0.157 |
| 4-4030 | 4-4570 | 0.324 | 44.2 | 2.4 | -3.86 | 1.182 | 102.7 | 0.462 | 1.739 | 318.8 | 556.1 | 0.935 | 2.542 | -4.26 | 0.488 | 77.0 | 125.8 | -12.5 | 0.164 |
| 4-4030 | 4-4590 | 0.337 | 46.2 | 2.0 | -4.29 | 1.182 | 103.5 | 0.468 | 1.743 | 316.7 | 559.1 | 0.927 | 2.560 | -4.05 | 0.495 | 74.6 | 125.1 | -11.2 | 0.173 |
| 4-4030 | 4-4610 | 0.351 | 48.3 | 1.9 | -4.67 | 1.183 | 104.3 | 0.476 | 1.749 | 314.4 | 561.8 | 0.917 | 2.582 | -3.89 | 0.504 | 72.4 | 125.3 | -10.1 | 0.185 |
| 4-4030 | 4-4630 | 0.368 | 50.4 | 2.1 | -5.04 | 1.184 | 105.3 | 0.485 | 1.756 | 311.8 | 564.4 | 0.904 | 2.607 | -3.76 | 0.512 | 70.2 | 126.2 | -9.2 | 0.198 |
| 4-4030 | 4-4650 | 0.387 | 52.5 | 2.5 | -5.39 | 1.185 | 106.4 | 0.495 | 1.764 | 309.0 | 566.8 | 0.890 | 2.637 | -3.67 | 0.521 | 68.2 | 127.8 | -8.4 | 0.212 |
| 4-4030 | 4-4670 | 0.408 | 54.8 | 3.0 | -5.74 | 1.186 | 107.6 | 0.507 | 1.772 | 305.8 | 569.0 | 0.873 | 2.671 | -3.61 | 0.530 | 66.2 | 130.0 | -7.7 | 0.228 |
| 4-4040 | 4-4220 | 0.613 | 53.2 | -4.5 | -10.40 | 1.400 | 109.3 | 0.99323.568 | | 321.3 | 467.2 | 0.905 | --- | 4.49 | 0.881 | 143.3 | 149.9 | 3.4 | 0.688 |
| 4-4040 | 4-4240 | 0.545 | 53.7 | -8.6 | -11.13 | 1.343 | 107.1 | 0.849 | 6.076 | 322.7 | 473.2 | 0.921 | --- | 5.12 | 0.786 | 139.5 | 152.0 | 4.4 | 0.587 |
| 4-4040 | 4-4260 | 0.498 | 54.5 | -13.5 | -12.11 | 1.301 | 105.1 | 0.743 | 3.634 | 324.3 | 479.4 | 0.934 | --- | 5.99 | 0.711 | 135.5 | 153.7 | 5.9 | 0.506 |
| 4-4040 | 4-4280 | 0.470 | 55.8 | -19.2 | -13.48 | 1.270 | 103.5 | 0.664 | 2.817 | 326.0 | 485.6 | 0.946 | --- | 7.25 | 0.651 | 131.4 | 155.2 | 8.1 | 0.439 |
| 4-4040 | 4-4300 | 0.464 | 58.3 | -26.1 | -15.60 | 1.247 | 102.1 | 0.605 | 2.419 | 327.6 | 491.8 | 0.956 | --- | 9.27 | 0.604 | 127.1 | 156.1 | 11.6 | 0.386 |
| 4-4040 | 4-4320 | 0.491 | 63.4 | -34.7 | -19.34 | 1.230 | 100.9 | 0.559 | 2.190 | 329.2 | 497.9 | 0.965 | --- | 12.91 | 0.567 | 122.7 | 156.0 | 17.8 | 0.348 |
| 4-4040 | 4-4340 | 0.603 | 76.4 | -45.5 | -27.77 | 1.217 | 100.0 | 0.525 | 2.045 | 330.8 | 503.8 | 0.971 | --- | 21.24 | 0.537 | 118.3 | 152.9 | 29.7 | 0.346 |
| 4-4040 | 4-4360 | 1.108 | 119.4 | -49.8 | -59.28 | 1.207 | 99.0 | 0.498 | 1.948 | 332.8 | 509.6 | 0.979 | --- | 52.64 | 0.515 | 113.8 | 133.2 | 44.7 | 0.532 |
| 4-4040 | 4-4380 | 0.736 | 262.2 | 82.3 | 36.73 | 1.199 | 99.2 | 0.482 | 1.882 | 331.3 | 515.0 | 0.975 | --- | -43.47 | 0.498 | 109.9 | 138.3 | -45.7 | 0.451 |
| 4-4040 | 4-4400 | 0.355 | 15.0 | 56.8 | 12.36 | 1.193 | 98.6 | 0.466 | 1.835 | 332.8 | 520.3 | 0.980 | --- | -19.19 | 0.486 | 105.7 | 151.1 | -35.6 | 0.265 |
| 4-4040 | 4-4420 | 0.279 | 26.0 | 34.6 | 5.12 | 1.189 | 98.3 | 0.455 | 1.802 | 333.2 | 525.3 | 0.982 | --- | -12.06 | 0.478 | 101.7 | 152.0 | -27.9 | 0.209 |
| 4-4040 | 4-4440 | 0.260 | 31.0 | 21.0 | 1.75 | 1.186 | 98.2 | 0.448 | 1.779 | 333.3 | 530.0 | 0.982 | --- | -8.79 | 0.473 | 97.9 | 150.1 | -23.4 | 0.180 |
| 4-4040 | 4-4460 | 0.256 | 34.3 | 12.7 | -0.22 | 1.184 | 98.2 | 0.443 | 1.763 | 333.2 | 534.5 | 0.982 | --- | -6.93 | 0.471 | 94.3 | 147.0 | -20.4 | 0.163 |
| 4-4040 | 4-4480 | 0.257 | 36.8 | 7.3 | -1.51 | 1.183 | 98.2 | 0.440 | 1.753 | 332.7 | 538.7 | 0.981 | --- | -5.74 | 0.471 | 91.0 | 143.2 | -18.1 | 0.152 |
| 4-4040 | 4-4500 | 0.261 | 39.0 | 3.7 | -2.44 | 1.182 | 98.5 | 0.439 | 1.747 | 332.0 | 542.8 | 0.980 | 2.514 | -4.92 | 0.473 | 87.8 | 139.2 | -16.2 | 0.146 |
| 4-4040 | 4-4520 | 0.267 | 41.1 | 1.3 | -3.15 | 1.181 | 98.8 | 0.440 | 1.744 | 331.0 | 546.5 | 0.977 | 2.511 | -4.33 | 0.477 | 84.9 | 135.4 | -14.4 | 0.144 |
| 4-4040 | 4-4540 | 0.274 | 43.2 | -0.2 | -3.72 | 1.181 | 99.2 | 0.442 | 1.744 | 329.7 | 550.1 | 0.973 | 2.514 | -3.88 | 0.482 | 82.2 | 132.2 | -12.8 | 0.146 |
| 4-4040 | 4-4560 | 0.283 | 45.3 | -1.1 | -4.18 | 1.182 | 99.7 | 0.445 | 1.745 | 328.2 | 553.5 | 0.969 | 2.522 | -3.54 | 0.487 | 79.6 | 129.8 | -11.4 | 0.150 |
| 4-4040 | 4-4580 | 0.293 | 47.4 | -1.5 | -4.58 | 1.182 | 100.3 | 0.449 | 1.749 | 326.4 | 556.7 | 0.963 | 2.534 | -3.27 | 0.494 | 77.3 | 128.2 | -10.1 | 0.157 |
| 4-4040 | 4-4600 | 0.305 | 49.6 | -1.6 | -4.94 | 1.183 | 101.0 | 0.455 | 1.754 | 324.3 | 559.7 | 0.956 | 2.551 | -3.06 | 0.502 | 75.0 | 127.6 | -9.0 | 0.166 |
| 4-4040 | 4-4620 | 0.317 | 51.8 | -1.3 | -5.25 | 1.183 | 101.8 | 0.461 | 1.760 | 322.0 | 562.5 | 0.948 | 2.571 | -2.89 | 0.510 | 72.9 | 127.8 | -8.0 | 0.177 |
| 4-4040 | 4-4640 | 0.332 | 54.1 | -0.8 | -5.54 | 1.184 | 102.7 | 0.469 | 1.767 | 319.4 | 565.1 | 0.938 | 2.595 | -2.76 | 0.519 | 70.9 | 128.7 | -7.2 | 0.189 |
| 4-4040 | 4-4660 | 0.349 | 56.5 | -0.2 | -5.81 | 1.185 | 103.7 | 0.478 | 1.774 | 316.6 | 567.6 | 0.926 | 2.623 | -2.68 | 0.528 | 69.0 | 130.3 | -6.5 | 0.203 |
| 4-4040 | 4-4680 | 0.367 | 58.9 | 0.7 | -6.07 | 1.187 | 104.9 | 0.489 | 1.783 | 313.5 | 569.8 | 0.912 | 2.654 | -2.59 | 0.537 | 67.1 | 132.5 | -5.9 | 0.218 |
| 4-4050 | 4-4210 | 0.641 | 54.8 | 0.6 | -8.34 | 1.468 | 108.3 | 1.172-5.374 | | 326.2 | 460.4 | 0.924 | --- | 1.92 | 0.986 | 145.6 | 150.6 | 1.4 | 0.790 |
| 4-4050 | 4-4230 | 0.550 | 54.6 | -2.4 | -8.57 | 1.392 | 105.9 | 0.97132.233 | | 327.7 | 466.5 | 0.939 | --- | 2.09 | 0.867 | 142.1 | 152.8 | 1.7 | 0.667 |
| 4-4050 | 4-4250 | 0.483 | 54.2 | -5.8 | -8.85 | 1.337 | 103.8 | 0.828 | 5.530 | 329.3 | 472.8 | 0.952 | --- | 2.31 | 0.775 | 138.3 | 154.7 | 2.1 | 0.568 |
| 4-4050 | 4-4270 | 0.433 | 53.7 | -9.5 | -9.20 | 1.296 | 102.1 | 0.724 | 3.487 | 331.2 | 479.2 | 0.964 | --- | 2.60 | 0.702 | 134.3 | 156.5 | 2.7 | 0.488 |
| 4-4050 | 4-4290 | 0.398 | 53.3 | -13.6 | -9.65 | 1.267 | 100.5 | 0.647 | 2.753 | 333.0 | 485.6 | 0.973 | --- | 2.99 | 0.644 | 130.1 | 158.0 | 3.5 | 0.421 |
| 4-4050 | 4-4310 | 0.374 | 53.1 | -18.0 | -10.27 | 1.244 | 99.3 | 0.589 | 2.385 | 334.8 | 492.0 | 0.981 | --- | 3.55 | 0.599 | 125.8 | 159.2 | 4.7 | 0.366 |
| 4-4050 | 4-4330 | 0.361 | 53.4 | -22.9 | -11.17 | 1.228 | 98.2 | 0.545 | 2.171 | 336.6 | 498.3 | 0.987 | --- | 4.39 | 0.563 | 121.5 | 159.9 | 6.6 | 0.320 |
| 4-4050 | 4-4350 | 0.363 | 54.8 | -28.8 | -12.63 | 1.215 | 97.4 | 0.513 | 2.034 | 338.1 | 504.3 | 0.992 | --- | 5.80 | 0.535 | 117.1 | 160.1 | 9.8 | 0.282 |
| 4-4050 | 4-4370 | 0.390 | 58.8 | -36.7 | -15.52 | 1.205 | 96.7 | 0.488 | 1.943 | 339.4 | 510.2 | 0.995 | --- | 8.63 | 0.514 | 112.8 | 159.3 | 16.1 | 0.256 |
| 4-4050 | 4-4390 | 0.511 | 72.8 | -49.4 | -23.87 | 1.198 | 96.2 | 0.469 | 1.880 | 340.5 | 515.8 | 0.998 | --- | 16.93 | 0.498 | 108.6 | 155.3 | 31.2 | 0.265 |
| 4-4050 | 4-4430 | 0.292 | 14.4 | 51.3 | 9.28 | 1.189 | 95.8 | 0.446 | 1.805 | 341.2 | 528.1 | 1.000 | --- | -16.34 | 0.480 | 100.7 | 151.9 | -35.5 | 0.229 |
| 4-4050 | 4-4450 | 0.231 | 29.8 | 19.2 | 1.29 | 1.186 | 95.7 | 0.439 | 1.783 | 341.4 | 530.8 | 1.000 | --- | -8.40 | 0.476 | 97.1 | 151.7 | -23.2 | 0.175 |
| 4-4050 | 4-4470 | 0.230 | 35.1 | 5.8 | -1.52 | 1.184 | 95.7 | 0.434 | 1.768 | 341.2 | 535.3 | 1.000 | --- | -5.65 | 0.474 | 93.6 | 148.6 | -17.5 | 0.155 |
| 4-4050 | 4-4490 | 0.235 | 38.2 | -0.8 | -2.96 | 1.183 | 95.8 | 0.432 | 1.759 | 340.7 | 539.5 | 0.999 | --- | -4.27 | 0.475 | 90.4 | 144.7 | -14.2 | 0.144 |
| 4-4050 | 4-4510 | 0.241 | 40.7 | -4.3 | -3.85 | 1.182 | 96.0 | 0.431 | 1.753 | 339.9 | 543.5 | 0.998 | 2.509 | -3.44 | 0.478 | 87.3 | 140.7 | -11.9 | 0.139 |
| 4-4050 | 4-4530 | 0.247 | 42.9 | -6.2 | -4.46 | 1.182 | 96.3 | 0.431 | 1.751 | 338.9 | 547.3 | 0.996 | 2.508 | -2.89 | 0.481 | 84.5 | 137.0 | -10.1 | 0.138 |
| 4-4050 | 4-4550 | 0.254 | 45.1 | -7.2 | -4.90 | 1.182 | 96.7 | 0.433 | 1.751 | 337.5 | 550.9 | 0.993 | 2.509 | -2.51 | 0.487 | 81.9 | 133.9 | -8.6 | 0.140 |
| 4-4050 | 4-4570 | 0.262 | 47.4 | -7.5 | -5.25 | 1.182 | 97.2 | 0.436 | 1.753 | 335.9 | 554.2 | 0.990 | 2.517 | -2.22 | 0.493 | 79.5 | 131.6 | -7.4 | 0.145 |
| 4-4050 | 4-4590 | 0.270 | 49.6 | -7.4 | -5.54 | 1.183 | 97.8 | 0.439 | 1.757 | 334.1 | 557.4 | 0.985 | 2.529 | -2.01 | 0.500 | 77.2 | 130.2 | -6.4 | 0.152 |
| 4-4050 | 4-4610 | 0.280 | 52.0 | -6.9 | -5.78 | 1.183 | 98.5 | 0.444 | 1.763 | 332.0 | 560.4 | 0.980 | 2.546 | -1.84 | 0.508 | 75.1 | 129.6 | -5.6 | 0.161 |
| 4-4050 | 4-4630 | 0.290 | 54.4 | -6.1 | -5.98 | 1.184 | 99.3 | 0.450 | 1.769 | 329.7 | 563.3 | 0.973 | 2.564 | -1.71 | 0.516 | 73.2 | 129.9 | -4.9 | 0.171 |
| 4-4050 | 4-4650 | 0.303 | 56.9 | -5.1 | -6.17 | 1.185 | 100.2 | 0.456 | 1.776 | 327.1 | 565.9 | 0.965 | 2.587 | -1.61 | 0.525 | 71.3 | 131.0 | -4.4 | 0.183 |
| 4-4050 | 4-4670 | 0.317 | 59.5 | -4.0 | -6.33 | 1.186 | 101.2 | 0.464 | 1.784 | 324.2 | 568.4 | 0.956 | 2.612 | -1.53 | 0.534 | 69.5 | 132.6 | -3.9 | 0.196 |
| 4-4050 | 4-4690 | 0.333 | 62.2 | -2.7 | -6.49 | 1.187 | 102.3 | 0.473 | 1.793 | 321.1 | 570.7 | 0.944 | 2.641 | -1.47 | 0.543 | 67.8 | 134.9 | -3.5 | 0.210 |
| 4-4060 | 4-4220 | 0.578 | 55.9 | 1.3 | -7.28 | 1.454 | 104.5 | 1.139-6.865 | | 332.9 | 460.0 | 0.957 | --- | 0.25 | 0.964 | 144.4 | 153.3 | 0.2 | 0.762 |
| 4-4060 | 4-4240 | 0.492 | 55.0 | -1.4 | -7.31 | 1.381 | 102.3 | 0.94216.735 | | 334.6 | 466.3 | 0.969 | --- | 0.27 | 0.850 | 140.9 | 155.3 | 0.2 | 0.643 |
| 4-4060 | 4-4260 | 0.428 | 53.7 | -4.4 | -7.34 | 1.329 | 100.4 | 0.802 | 4.955 | 336.6 | 472.8 | 0.979 | --- | 0.29 | 0.761 | 137.0 | 157.2 | 0.3 | 0.548 |
| 4-4060 | 4-4280 | 0.380 | 52.2 | -7.4 | -7.38 | 1.290 | 98.8 | 0.701 | 3.308 | 338.8 | 479.5 | 0.988 | --- | 0.32 | 0.690 | 133.0 | 158.8 | 0.3 | 0.470 |
| 4-4060 | 4-4300 | 0.345 | 50.5 | -10.5 | -7.42 | 1.262 | 97.4 | 0.627 | 2.668 | 340.8 | 486.2 | 0.995 | --- | 0.36 | 0.635 | 128.8 | 160.2 | 0.4 | 0.405 |
| 4-4060 | 4-4320 | 0.318 | 48.7 | -13.5 | -7.48 | 1.241 | 96.2 | 0.572 | 2.337 | 342.8 | 492.8 | 1.000 | --- | 0.40 | 0.591 | 124.5 | 161.3 | 0.6 | 0.351 |
| 4-4060 | 4-4340 | 0.299 | 47.1 | -16.2 | -7.55 | 1.225 | 95.3 | 0.531 | 2.141 | 344.7 | 499.2 | 1.004 | --- | 0.47 | 0.557 | 120.1 | 162.0 | 0.7 | 0.305 |
| 4-4060 | 4-4360 | 0.285 | 45.7 | -18.8 | -7.66 | 1.213 | 94.6 | 0.500 | 2.015 | 346.3 | 505.4 | 1.007 | --- | 0.57 | 0.531 | 115.8 | 162.2 | 1.0 | 0.267 |
| 4-4060 | 4-4380 | 0.276 | 44.7 | -21.1 | -7.82 | 1.204 | 94.0 | 0.477 | 1.931 | 347.6 | 511.4 | 1.009 | --- | 0.72 | 0.512 | 111.5 | 161.8 | 1.5 | 0.234 |
| 4-4060 | 4-4400 | 0.271 | 44.2 | -23.5 | -8.10 | 1.197 | 93.6 | 0.460 | 1.872 | 348.7 | 517.0 | 1.011 | --- | 0.99 | 0.497 | 107.3 | 160.8 | 2.3 | 0.207 |
| 4-4060 | 4-4420 | 0.273 | 44.7 | -26.7 | -8.75 | 1.192 | 93.3 | 0.448 | 1.831 | 349.4 | 522.3 | 1.011 | --- | 1.64 | 0.487 | 103.4 | 159.0 | 4.2 | 0.185 |
| 4-4060 | 4-4440 | 0.309 | 50.1 | -36.4 | -11.86 | 1.188 | 93.1 | 0.439 | 1.803 | 349.7 | 527.3 | 1.012 | --- | 4.73 | 0.481 | 99.6 | 156.1 | 13.2 | 0.171 |
| 4-4060 | 4-4460 | 0.214 | 32.1 | 1.2 | -1.99 | 1.186 | 93.1 | 0.432 | 1.783 | 349.8 | 532.0 | 1.012 | --- | -5.14 | 0.477 | 96.0 | 152.9 | -15.5 | 0.159 |
| 4-4060 | 4-4480 | 0.233 | 39.1 | -15.3 | -5.48 | 1.184 | 93.1 | 0.428 | 1.770 | 349.5 | 536.5 | 1.012 | --- | -1.66 | 0.477 | 92.6 | 149.4 | -5.6 | 0.143 |
| 4-4060 | 4-4500 | 0.239 | 41.1 | -17.8 | -6.16 | 1.183 | 93.3 | 0.426 | 1.762 | 348.9 | 540.6 | 1.011 | 2.512 | -0.99 | 0.478 | 89.5 | 145.4 | -3.5 | 0.136 |
| 4-4060 | 4-4520 | 0.242 | 42.8 | -18.5 | -6.45 | 1.182 | 93.6 | 0.425 | 1.757 | 348.1 | 544.6 | 1.010 | 2.504 | -0.71 | 0.481 | 86.6 | 141.4 | -2.6 | 0.133 |
| 4-4060 | 4-4540 | 0.246 | 44.6 | -18.3 | -6.61 | 1.182 | 93.9 | 0.425 | 1.756 | 346.9 | 548.3 | 1.009 | 2.503 | -0.55 | 0.486 | 83.9 | 137.8 | -2.0 | 0.134 |
| 4-4060 | 4-4560 | 0.249 | 46.5 | -17.7 | -6.72 | 1.182 | 94.3 | 0.427 | 1.757 | 345.5 | 551.8 | 1.007 | 2.506 | -0.45 | 0.491 | 81.5 | 134.9 | -1.6 | 0.137 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4060 | 4-4580 | 0.253 | 48.6 | -16.8 | -6.80 | 1.183 | 94.8 | 0.429 | 1.760 | 343.9 | 555.2 | 1.005 | 2.515 | -0.39 | 0.498 | 79.2 | 132.8 | -1.3 | 0.142 |
| 4-4060 | 4-4600 | 0.259 | 50.9 | -15.6 | -6.86 | 1.183 | 95.4 | 0.432 | 1.764 | 342.0 | 558.3 | 1.002 | 2.526 | -0.34 | 0.505 | 77.0 | 131.6 | -1.1 | 0.150 |
| 4-4060 | 4-4620 | 0.265 | 53.3 | -14.2 | -6.90 | 1.184 | 96.1 | 0.436 | 1.770 | 339.8 | 561.3 | 0.998 | 2.542 | -0.30 | 0.513 | 75.0 | 131.3 | -1.0 | 0.159 |
| 4-4060 | 4-4640 | 0.273 | 55.9 | -12.6 | -6.94 | 1.185 | 96.9 | 0.441 | 1.777 | 337.4 | 564.1 | 0.993 | 2.560 | -0.28 | 0.522 | 73.2 | 131.8 | -0.8 | 0.169 |
| 4-4060 | 4-4660 | 0.282 | 58.6 | -10.9 | -6.97 | 1.186 | 97.7 | 0.447 | 1.784 | 334.8 | 566.8 | 0.987 | 2.582 | -0.26 | 0.531 | 71.5 | 133.0 | -0.7 | 0.180 |
| 4-4060 | 4-4680 | 0.292 | 61.5 | -9.0 | -7.00 | 1.187 | 98.7 | 0.454 | 1.793 | 331.9 | 569.3 | 0.979 | 2.606 | -0.24 | 0.540 | 69.8 | 134.8 | -0.6 | 0.192 |
| 4-4060 | 4-4700 | 0.305 | 64.4 | -7.1 | -7.03 | 1.188 | 99.7 | 0.461 | 1.802 | 328.7 | 571.6 | 0.970 | 2.633 | -0.23 | 0.549 | 68.3 | 137.1 | -0.6 | 0.206 |
| 4-4070 | 4-4210 | 0.627 | 56.8 | 3.6 | -6.60 | 1.535 | 102.5 | 1.378 | -2.578 | 338.4 | 453.7 | 0.975 | --- | -1.08 | 1.083 | 146.5 | 153.7 | -0.7 | 0.878 |
| 4-4070 | 4-4230 | 0.518 | 55.6 | 1.2 | -6.50 | 1.438 | 100.4 | 1.097 | 10.121 | 340.1 | 460.0 | 0.985 | --- | -1.13 | 0.939 | 143.2 | 155.7 | -0.9 | 0.732 |
| 4-4070 | 4-4250 | 0.439 | 53.7 | -1.4 | -6.39 | 1.369 | 98.5 | 0.907 | 10.633 | 342.2 | 466.7 | 0.993 | --- | -1.19 | 0.829 | 139.6 | 157.5 | -1.0 | 0.617 |
| 4-4070 | 4-4270 | 0.381 | 51.3 | -4.1 | -6.27 | 1.319 | 96.8 | 0.773 | 4.399 | 344.5 | 473.6 | 1.000 | --- | -1.26 | 0.743 | 135.7 | 159.2 | -1.2 | 0.525 |
| 4-4070 | 4-4290 | 0.338 | 48.6 | -6.7 | -6.13 | 1.283 | 95.3 | 0.676 | 3.109 | 346.9 | 480.5 | 1.006 | --- | -1.35 | 0.676 | 131.6 | 160.7 | -1.5 | 0.450 |
| 4-4070 | 4-4310 | 0.306 | 45.7 | -9.1 | -5.97 | 1.256 | 94.1 | 0.607 | 2.566 | 349.2 | 487.5 | 1.010 | --- | -1.47 | 0.623 | 127.3 | 161.9 | -1.9 | 0.388 |
| 4-4070 | 4-4330 | 0.281 | 42.7 | -11.1 | -5.77 | 1.236 | 93.0 | 0.555 | 2.276 | 351.5 | 494.3 | 1.013 | --- | -1.62 | 0.582 | 123.0 | 162.8 | -2.4 | 0.336 |
| 4-4070 | 4-4350 | 0.263 | 39.8 | -12.5 | -5.53 | 1.221 | 92.2 | 0.517 | 2.101 | 353.5 | 500.9 | 1.014 | --- | -1.82 | 0.550 | 118.6 | 163.2 | -3.0 | 0.292 |
| 4-4070 | 4-4370 | 0.249 | 37.1 | -13.2 | -5.23 | 1.210 | 91.6 | 0.489 | 1.988 | 355.2 | 507.2 | 1.015 | --- | -2.08 | 0.525 | 114.3 | 163.1 | -3.9 | 0.256 |
| 4-4070 | 4-4390 | 0.237 | 34.5 | -12.9 | -4.81 | 1.202 | 91.1 | 0.468 | 1.911 | 356.6 | 513.1 | 1.016 | --- | -2.46 | 0.507 | 110.0 | 162.5 | -5.2 | 0.225 |
| 4-4070 | 4-4410 | 0.227 | 32.0 | -11.3 | -4.20 | 1.196 | 90.7 | 0.453 | 1.859 | 357.6 | 518.7 | 1.016 | --- | -3.03 | 0.494 | 105.9 | 161.1 | -7.2 | 0.200 |
| 4-4070 | 4-4430 | 0.216 | 29.2 | -7.2 | -3.21 | 1.191 | 90.5 | 0.442 | 1.822 | 358.3 | 524.0 | 1.016 | --- | -3.98 | 0.485 | 102.0 | 158.9 | -10.5 | 0.181 |
| 4-4070 | 4-4450 | 0.206 | 24.8 | 2.4 | -1.27 | 1.188 | 90.4 | 0.434 | 1.796 | 358.6 | 529.0 | 1.016 | --- | -5.87 | 0.480 | 98.2 | 155.8 | -16.7 | 0.169 |
| 4-4070 | 4-4470 | 0.217 | 12.0 | 31.4 | 4.28 | 1.186 | 90.4 | 0.429 | 1.779 | 358.6 | 533.6 | 1.016 | --- | -11.39 | 0.478 | 94.7 | 151.2 | -31.1 | 0.182 |
| 4-4070 | 4-4510 | 0.407 | 60.4 | -53.3 | -18.93 | 1.183 | 90.8 | 0.423 | 1.761 | 357.3 | 542.0 | 1.016 | 2.508 | 11.91 | 0.480 | 88.5 | 144.2 | 34.5 | 0.175 |
| 4-4070 | 4-4530 | 0.314 | 50.4 | -41.9 | -12.90 | 1.183 | 91.1 | 0.422 | 1.758 | 356.4 | 545.9 | 1.016 | 2.500 | 5.92 | 0.484 | 85.7 | 141.1 | 20.3 | 0.144 |
| 4-4070 | 4-4550 | 0.286 | 48.3 | -36.0 | -10.88 | 1.183 | 91.4 | 0.422 | 1.758 | 355.1 | 549.6 | 1.015 | 2.501 | 3.94 | 0.489 | 83.1 | 137.9 | 13.9 | 0.139 |
| 4-4070 | 4-4570 | 0.274 | 48.4 | -32.0 | -9.85 | 1.183 | 91.9 | 0.423 | 1.760 | 353.6 | 553.0 | 1.015 | 2.505 | 2.96 | 0.495 | 80.8 | 135.3 | 10.4 | 0.140 |
| 4-4070 | 4-4590 | 0.268 | 49.6 | -28.8 | -9.23 | 1.184 | 92.4 | 0.425 | 1.764 | 351.9 | 556.3 | 1.014 | 2.514 | 2.37 | 0.502 | 78.6 | 133.6 | 8.1 | 0.145 |
| 4-4070 | 4-4610 | 0.265 | 51.4 | -26.0 | -8.80 | 1.184 | 93.0 | 0.428 | 1.769 | 349.9 | 559.4 | 1.012 | 2.526 | 1.99 | 0.510 | 76.6 | 132.7 | 6.5 | 0.151 |
| 4-4070 | 4-4630 | 0.265 | 53.7 | -23.3 | -8.48 | 1.185 | 93.7 | 0.431 | 1.775 | 347.7 | 562.3 | 1.009 | 2.541 | 1.72 | 0.518 | 74.7 | 132.7 | 5.4 | 0.160 |
| 4-4070 | 4-4650 | 0.267 | 56.3 | -20.7 | -8.24 | 1.186 | 94.5 | 0.436 | 1.783 | 345.2 | 565.1 | 1.006 | 2.559 | 1.53 | 0.527 | 73.0 | 133.4 | 4.5 | 0.169 |
| 4-4070 | 4-4670 | 0.271 | 59.1 | -18.0 | -8.04 | 1.187 | 95.3 | 0.440 | 1.791 | 342.5 | 567.8 | 1.002 | 2.580 | 1.38 | 0.536 | 71.4 | 134.8 | 3.9 | 0.180 |
| 4-4070 | 4-4690 | 0.277 | 62.2 | -15.4 | -7.87 | 1.188 | 96.3 | 0.446 | 1.800 | 339.6 | 570.3 | 0.997 | 2.603 | 1.27 | 0.545 | 69.9 | 136.8 | 3.4 | 0.191 |
| 4-4070 | 4-4710 | 0.286 | 65.4 | -12.7 | -7.72 | 1.190 | 97.3 | 0.453 | 1.809 | 336.4 | 572.6 | 0.990 | 2.629 | 1.18 | 0.554 | 68.5 | 139.2 | 3.0 | 0.204 |
| 4-4080 | 4-4220 | 0.566 | 55.3 | 2.8 | -6.11 | 1.511 | 97.9 | 1.313 | -3.187 | 346.0 | 454.1 | 0.999 | --- | -2.25 | 1.048 | 145.3 | 155.9 | -1.6 | 0.839 |
| 4-4080 | 4-4240 | 0.467 | 53.0 | 0.4 | -5.91 | 1.419 | 96.1 | 1.046 | 21.910 | 348.1 | 460.8 | 1.005 | --- | -2.31 | 0.910 | 142.0 | 157.7 | -1.9 | 0.699 |
| 4-4080 | 4-4260 | 0.396 | 50.0 | -2.1 | -5.70 | 1.355 | 94.4 | 0.865 | 7.495 | 350.5 | 467.9 | 1.009 | --- | -2.40 | 0.804 | 138.3 | 159.4 | -2.2 | 0.589 |
| 4-4080 | 4-4280 | 0.345 | 46.4 | -4.6 | -5.48 | 1.308 | 92.9 | 0.740 | 3.889 | 353.2 | 475.1 | 1.013 | --- | -2.51 | 0.722 | 134.3 | 160.9 | -2.6 | 0.501 |
| 4-4080 | 4-4300 | 0.309 | 42.4 | -6.9 | -5.23 | 1.275 | 91.6 | 0.650 | 2.902 | 355.9 | 482.4 | 1.015 | --- | -2.65 | 0.658 | 130.1 | 162.1 | -3.1 | 0.430 |
| 4-4080 | 4-4320 | 0.282 | 38.4 | -8.6 | -4.95 | 1.250 | 90.5 | 0.586 | 2.453 | 358.6 | 489.6 | 1.016 | --- | -2.83 | 0.608 | 125.8 | 163.1 | -3.8 | 0.370 |
| 4-4080 | 4-4340 | 0.263 | 34.4 | -9.8 | -4.63 | 1.231 | 89.6 | 0.539 | 2.205 | 1.0 | 136.6 | --- | --- | -3.05 | 0.570 | 121.4 | 163.7 | -4.6 | 0.321 |
| 4-4080 | 4-4360 | 0.248 | 30.8 | -10.2 | -4.25 | 1.217 | 89.0 | 0.505 | 2.053 | 3.1 | 143.3 | --- | --- | -3.33 | 0.540 | 116.9 | 163.8 | -5.7 | 0.279 |
| 4-4080 | 4-4380 | 0.237 | 27.4 | -9.8 | -3.79 | 1.207 | 88.4 | 0.481 | 1.953 | 4.9 | 149.6 | --- | --- | -3.70 | 0.517 | 112.6 | 163.3 | -7.2 | 0.245 |
| 4-4080 | 4-4400 | 0.228 | 24.3 | -8.3 | -3.21 | 1.200 | 88.0 | 0.462 | 1.886 | 6.2 | 155.5 | --- | --- | -4.18 | 0.501 | 108.3 | 162.2 | -9.2 | 0.217 |
| 4-4080 | 4-4420 | 0.220 | 21.4 | -5.4 | -2.44 | 1.194 | 87.8 | 0.449 | 1.840 | 7.1 | 161.0 | --- | --- | -4.86 | 0.490 | 104.2 | 160.4 | -11.9 | 0.195 |
| 4-4080 | 4-4440 | 0.213 | 18.4 | -0.5 | -1.37 | 1.190 | 87.7 | 0.440 | 1.808 | 7.7 | 166.2 | --- | --- | -5.84 | 0.482 | 100.4 | 157.8 | -15.7 | 0.178 |
| 4-4080 | 4-4460 | 0.209 | 14.6 | 7.9 | 0.27 | 1.187 | 87.6 | 0.433 | 1.786 | 7.9 | 171.0 | --- | --- | -7.39 | 0.478 | 96.7 | 154.4 | -21.1 | 0.169 |
| 4-4080 | 4-4480 | 0.215 | 8.1 | 22.7 | 3.14 | 1.185 | 87.7 | 0.428 | 1.771 | 7.7 | 175.6 | --- | --- | -10.18 | 0.477 | 93.3 | 150.3 | -29.2 | 0.173 |
| 4-4080 | 4-4500 | 0.273 | 350.6 | 47.5 | 9.56 | 1.184 | 87.8 | 0.425 | 1.763 | 7.3 | 179.8 | --- | --- | -16.50 | 0.478 | 90.1 | 145.4 | -41.1 | 0.207 |
| 4-4080 | 4-4520 | 0.674 | 273.0 | 62.5 | 34.61 | 1.183 | 87.9 | 0.423 | 1.758 | 7.1 | 183.9 | --- | 2.502 | -41.46 | 0.481 | 87.2 | 139.7 | -51.5 | 0.407 |
| 4-4080 | 4-4540 | 0.899 | 122.2 | -72.2 | -47.89 | 1.183 | 88.8 | 0.422 | 1.757 | 4.1 | 187.3 | --- | 2.498 | 41.13 | 0.486 | 84.7 | 140.6 | 51.6 | 0.406 |
| 4-4080 | 4-4560 | 0.472 | 64.2 | -59.8 | -22.87 | 1.183 | 89.0 | 0.422 | 1.758 | 3.3 | 190.9 | --- | 2.500 | 16.20 | 0.492 | 82.2 | 138.4 | 41.5 | 0.205 |
| 4-4080 | 4-4580 | 0.368 | 54.7 | -49.9 | -16.45 | 1.184 | 89.5 | 0.423 | 1.761 | 1.8 | 194.3 | --- | 2.508 | 9.88 | 0.498 | 79.9 | 135.9 | 30.0 | 0.168 |
| 4-4080 | 4-4600 | 0.324 | 52.2 | -43.2 | -13.57 | 1.184 | 90.0 | 0.425 | 1.766 | 360.0 | 557.5 | 1.016 | 2.516 | 7.10 | 0.506 | 77.9 | 134.4 | 22.4 | 0.161 |
| 4-4080 | 4-4620 | 0.301 | 52.3 | -38.0 | -11.93 | 1.185 | 90.6 | 0.427 | 1.772 | 357.9 | 560.6 | 1.016 | 2.529 | 5.55 | 0.514 | 76.0 | 133.8 | 17.3 | 0.162 |
| 4-4080 | 4-4640 | 0.288 | 53.7 | -33.7 | -10.85 | 1.186 | 91.3 | 0.430 | 1.779 | 355.8 | 563.4 | 1.015 | 2.544 | 4.57 | 0.523 | 74.2 | 134.0 | 13.9 | 0.167 |
| 4-4080 | 4-4660 | 0.280 | 55.8 | -29.8 | -10.08 | 1.187 | 92.1 | 0.433 | 1.788 | 353.0 | 566.2 | 1.014 | 2.561 | 3.91 | 0.532 | 72.6 | 135.0 | 11.4 | 0.175 |
| 4-4080 | 4-4680 | 0.276 | 58.6 | -26.2 | -9.49 | 1.188 | 93.0 | 0.437 | 1.796 | 350.3 | 568.8 | 1.011 | 2.582 | 3.43 | 0.541 | 71.2 | 136.6 | 9.6 | 0.184 |
| 4-4080 | 4-4700 | 0.275 | 61.7 | -22.7 | -9.02 | 1.190 | 93.9 | 0.442 | 1.806 | 347.3 | 571.3 | 1.008 | 2.604 | 3.07 | 0.550 | 69.8 | 138.7 | 8.2 | 0.194 |
| 4-4080 | 4-4720 | 0.277 | 65.2 | -19.2 | -8.63 | 1.191 | 94.9 | 0.447 | 1.816 | 344.0 | 573.6 | 1.004 | 2.628 | 2.80 | 0.559 | 68.5 | 141.3 | 7.1 | 0.206 |
| 4-4090 | 4-4210 | 0.644 | 54.3 | 3.9 | -6.00 | 1.609 | 94.7 | 1.623 | -1.620 | 352.3 | 448.6 | 1.009 | --- | -3.25 | 1.184 | 147.4 | 156.1 | -2.1 | 0.973 |
| 4-4090 | 4-4230 | 0.517 | 51.7 | 1.6 | -5.74 | 1.485 | 93.1 | 1.236 | -4.289 | 354.4 | 455.3 | 1.012 | --- | -3.29 | 1.008 | 144.3 | 157.7 | -2.4 | 0.798 |
| 4-4090 | 4-4250 | 0.429 | 48.0 | -0.9 | -5.46 | 1.400 | 91.5 | 0.987 | 78.698 | 357.0 | 462.5 | 1.014 | --- | -3.36 | 0.877 | 140.8 | 159.3 | -2.8 | 0.664 |
| 4-4090 | 4-4270 | 0.369 | 43.6 | -3.3 | -5.18 | 1.339 | 90.0 | 0.820 | 5.640 | 359.9 | 470.0 | 1.015 | --- | -3.44 | 0.776 | 137.0 | 160.8 | -3.3 | 0.560 |
| 4-4090 | 4-4290 | 0.327 | 38.8 | -5.5 | -4.87 | 1.296 | 88.8 | 0.705 | 3.439 | 3.0 | 117.6 | --- | --- | -3.56 | 0.698 | 132.9 | 162.0 | -3.8 | 0.476 |
| 4-4090 | 4-4310 | 0.298 | 34.0 | -7.2 | -4.55 | 1.265 | 87.7 | 0.624 | 2.696 | 6.0 | 125.2 | --- | --- | -3.71 | 0.638 | 128.6 | 163.0 | -4.5 | 0.408 |
| 4-4090 | 4-4330 | 0.278 | 29.3 | -8.4 | -4.20 | 1.242 | 86.8 | 0.567 | 2.334 | 8.9 | 132.7 | --- | --- | -3.89 | 0.591 | 124.1 | 163.6 | -5.4 | 0.351 |
| 4-4090 | 4-4350 | 0.264 | 25.0 | -8.8 | -3.80 | 1.225 | 86.1 | 0.526 | 2.127 | 11.4 | 139.7 | --- | --- | -4.12 | 0.555 | 119.6 | 163.8 | -6.5 | 0.305 |
| 4-4090 | 4-4370 | 0.254 | 21.3 | -8.5 | -3.35 | 1.213 | 85.5 | 0.497 | 1.998 | 13.5 | 146.4 | --- | --- | -4.41 | 0.528 | 115.1 | 163.5 | -7.9 | 0.266 |
| 4-4090 | 4-4390 | 0.247 | 18.0 | -7.4 | -2.83 | 1.204 | 85.1 | 0.476 | 1.913 | 15.2 | 152.7 | --- | --- | -4.78 | 0.508 | 110.7 | 162.6 | -9.7 | 0.234 |
| 4-4090 | 4-4410 | 0.240 | 15.3 | -5.4 | -2.21 | 1.197 | 84.8 | 0.460 | 1.855 | 16.4 | 158.5 | --- | --- | -5.26 | 0.493 | 106.5 | 161.1 | -12.0 | 0.209 |
| 4-4090 | 4-4430 | 0.235 | 12.8 | -2.4 | -1.44 | 1.192 | 84.7 | 0.449 | 1.816 | 17.2 | 163.8 | --- | --- | -5.89 | 0.484 | 102.4 | 158.8 | -14.9 | 0.189 |
| 4-4090 | 4-4450 | 0.231 | 10.3 | 2.0 | -0.44 | 1.188 | 84.7 | 0.441 | 1.789 | 17.5 | 168.8 | --- | --- | -6.74 | 0.478 | 98.6 | 155.8 | -18.5 | 0.175 |
| 4-4090 | 4-4470 | 0.229 | 7.5 | 8.4 | 0.91 | 1.186 | 84.7 | 0.435 | 1.771 | 17.5 | 173.5 | --- | --- | -7.95 | 0.475 | 95.0 | 152.2 | -23.0 | 0.168 |
| 4-4090 | 4-4490 | 0.232 | 3.7 | 17.7 | 2.88 | 1.185 | 84.8 | 0.431 | 1.760 | 17.2 | 177.8 | --- | --- | -9.78 | 0.476 | 91.7 | 148.2 | -28.6 | 0.169 |
| 4-4090 | 4-4510 | 0.251 | 356.7 | 31.5 | 6.08 | 1.184 | 85.1 | 0.429 | 1.754 | 16.6 | 181.9 | --- | 2.508 | -12.85 | 0.478 | 88.6 | 144.2 | -35.7 | 0.182 |
| 4-4090 | 4-4530 | 0.319 | 340.0 | 49.4 | 12.26 | 1.183 | 85.3 | 0.427 | 1.752 | 15.7 | 185.7 | --- | 2.500 | -18.89 | 0.482 | 85.8 | 140.9 | -44.2 | 0.223 |
| 4-4090 | 4-4550 | 0.576 | 291.5 | 60.5 | 28.62 | 1.183 | 85.5 | 0.427 | 1.752 | 15.0 | 189.4 | --- | 2.500 | -35.11 | 0.487 | 83.1 | 140.0 | -51.3 | 0.357 |
| 4-4090 | 4-4590 | 0.721 | 87.3 | -72.8 | -37.31 | 1.185 | 87.2 | 0.426 | 1.760 | 9.4 | 195.7 | --- | 2.509 | 31.10 | 0.501 | 79.0 | 140.9 | 50.3 | 0.330 |
| 4-4090 | 4-4610 | 0.483 | 61.4 | -60.5 | -23.33 | 1.185 | 87.7 | 0.427 | 1.766 | 7.9 | 198.8 | --- | 2.520 | 17.26 | 0.509 | 77.0 | 137.1 | 41.0 | 0.224 |
| 4-4090 | 4-4630 | 0.391 | 55.6 | -51.6 | -17.74 | 1.186 | 88.3 | 0.429 | 1.773 | 5.8 | 201.8 | --- | 2.533 | 11.83 | 0.517 | 75.2 | 135.7 | 31.8 | 0.195 |
| 4-4090 | 4-4650 | 0.345 | 54.5 | -45.0 | -14.76 | 1.187 | 89.0 | 0.431 | 1.782 | 3.4 | 204.6 | --- | 2.549 | 8.99 | 0.526 | 73.6 | 135.8 | 24.9 | 0.187 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4090 | 4-4670 | 0.317 | 55.4 | -39.5 | -12.88 | 1.189 | 89.7 | 0.433 | 1.791 | 0.8 | 207.3 | --- | 2.567 | 7.28 | 0.536 | 72.1 | 136.8 | 20.0 | 0.189 |
| 4-4090 | 4-4690 | 0.299 | 57.4 | -34.7 | -11.58 | 1.190 | 90.6 | 0.437 | 1.800 | 358.0 | 569.8 | 1.014 | 2.586 | 6.14 | 0.545 | 70.7 | 138.4 | 16.5 | 0.194 |
| 4-4090 | 4-4710 | 0.288 | 60.3 | -30.3 | -10.61 | 1.191 | 91.6 | 0.440 | 1.811 | 354.9 | 572.3 | 1.013 | 2.608 | 5.33 | 0.555 | 69.5 | 140.7 | 13.8 | 0.202 |
| 4-4090 | 4-4730 | 0.281 | 63.8 | -26.1 | -9.84 | 1.193 | 92.6 | 0.445 | 1.821 | 351.6 | 574.5 | 1.011 | 2.632 | 4.75 | 0.564 | 68.3 | 143.5 | 11.8 | 0.212 |
| 4-4100 | 4-4220 | 0.599 | 49.7 | 2.4 | -5.81 | 1.572 | 89.3 | 1.503 | -2.014 | 1.2 | 90.2 | --- | --- | -4.25 | 1.132 | 146.5 | 157.6 | -2.9 | 0.922 |
| 4-4100 | 4-4240 | 0.486 | 45.6 | -0.0 | -5.46 | 1.457 | 88.0 | 1.149 | -6.787 | 3.8 | 97.5 | --- | --- | -4.25 | 0.964 | 143.3 | 159.1 | -3.2 | 0.755 |
| 4-4100 | 4-4260 | 0.412 | 40.7 | -2.4 | -5.12 | 1.378 | 86.7 | 0.924 | 13.207 | 7.0 | 105.2 | --- | --- | -4.29 | 0.839 | 139.6 | 180.4 | -3.7 | 0.629 |
| 4-4100 | 4-4280 | 0.363 | 35.3 | -4.5 | -4.77 | 1.323 | 85.5 | 0.774 | 4.444 | 10.4 | 113.2 | --- | --- | -4.35 | 0.744 | 135.7 | 161.6 | -4.3 | 0.529 |
| 4-4100 | 4-4300 | 0.331 | 29.9 | -6.2 | -4.40 | 1.283 | 84.4 | 0.672 | 3.050 | 13.9 | 121.3 | --- | --- | -4.45 | 0.671 | 131.4 | 162.5 | -5.0 | 0.450 |
| 4-4100 | 4-4320 | 0.311 | 24.9 | -7.2 | -4.02 | 1.255 | 83.5 | 0.601 | 2.499 | 17.2 | 129.2 | --- | --- | -4.58 | 0.614 | 126.9 | 163.2 | -5.8 | 0.385 |
| 4-4100 | 4-4340 | 0.297 | 20.5 | -7.7 | -3.62 | 1.234 | 82.8 | 0.552 | 2.213 | 20.2 | 136.7 | --- | --- | -4.74 | 0.571 | 122.4 | 163.4 | -6.9 | 0.332 |
| 4-4100 | 4-4360 | 0.287 | 16.7 | -7.5 | -3.18 | 1.219 | 82.3 | 0.518 | 2.045 | 22.7 | 143.7 | --- | --- | -4.96 | 0.538 | 117.7 | 163.2 | -8.2 | 0.289 |
| 4-4100 | 4-4380 | 0.280 | 13.6 | -6.7 | -2.69 | 1.208 | 81.9 | 0.493 | 1.938 | 24.7 | 150.3 | --- | --- | -5.22 | 0.513 | 113.1 | 162.4 | -9.8 | 0.253 |
| 4-4100 | 4-4400 | 0.275 | 11.0 | -5.4 | -2.14 | 1.200 | 81.6 | 0.475 | 1.867 | 26.2 | 156.3 | --- | --- | -5.56 | 0.496 | 108.7 | 160.9 | -11.7 | 0.224 |
| 4-4100 | 4-4420 | 0.271 | 8.9 | -3.4 | -1.51 | 1.194 | 81.5 | 0.463 | 1.820 | 27.1 | 161.9 | --- | --- | -5.99 | 0.484 | 104.4 | 158.8 | -14.1 | 0.201 |
| 4-4100 | 4-4440 | 0.267 | 7.0 | -0.7 | -0.77 | 1.190 | 81.5 | 0.454 | 1.788 | 27.6 | 167.0 | --- | --- | -6.53 | 0.476 | 100.4 | 156.1 | -16.8 | 0.184 |
| 4-4100 | 4-4460 | 0.263 | 5.3 | 3.0 | 0.13 | 1.187 | 81.5 | 0.447 | 1.767 | 27.7 | 171.7 | --- | --- | -7.24 | 0.472 | 96.6 | 152.7 | -20.0 | 0.173 |
| 4-4100 | 4-4480 | 0.261 | 3.5 | 7.8 | 1.28 | 1.185 | 81.7 | 0.442 | 1.753 | 27.4 | 176.1 | --- | --- | -8.19 | 0.471 | 93.1 | 149.0 | -23.7 | 0.167 |
| 4-4100 | 4-4500 | 0.262 | 1.2 | 14.3 | 2.79 | 1.184 | 81.9 | 0.439 | 1.746 | 26.8 | 180.2 | --- | 2.512 | -9.52 | 0.473 | 89.8 | 145.2 | -27.9 | 0.167 |
| 4-4100 | 4-4520 | 0.269 | 357.6 | 23.0 | 4.92 | 1.183 | 82.2 | 0.436 | 1.742 | 25.9 | 184.1 | --- | 2.503 | -11.46 | 0.476 | 86.9 | 141.7 | -32.6 | 0.175 |
| 4-4100 | 4-4540 | 0.292 | 351.0 | 34.6 | 8.20 | 1.183 | 82.5 | 0.435 | 1.743 | 24.8 | 187.7 | --- | 2.500 | -14.55 | 0.481 | 84.2 | 139.0 | -38.1 | 0.195 |
| 4-4100 | 4-4560 | 0.358 | 336.6 | 48.4 | 13.95 | 1.184 | 82.9 | 0.434 | 1.745 | 23.6 | 191.1 | --- | 2.503 | -20.12 | 0.487 | 81.7 | 137.8 | -44.5 | 0.237 |
| 4-4100 | 4-4580 | 0.549 | 302.4 | 57.7 | 26.47 | 1.184 | 83.3 | 0.434 | 1.750 | 22.4 | 194.4 | --- | 2.510 | -32.45 | 0.495 | 79.4 | 139.8 | -50.1 | 0.340 |
| 4-4100 | 4-4600 | 1.154 | 258.3 | 42.9 | 63.10 | 1.185 | 83.3 | 0.436 | 1.756 | 22.3 | 197.8 | --- | 2.522 | -68.89 | 0.503 | 77.2 | 148.1 | -45.0 | 0.646 |
| 4-4100 | 4-4620 | 1.042 | 142.7 | -81.0 | -56.21 | 1.186 | 85.6 | 0.431 | 1.764 | 14.5 | 200.0 | --- | 2.524 | 50.60 | 0.511 | 76.1 | 148.6 | 49.6 | 0.504 |
| 4-4100 | 4-4640 | 0.627 | 67.4 | -68.9 | -31.52 | 1.188 | 86.0 | 0.433 | 1.772 | 13.3 | 203.0 | --- | 2.540 | 26.10 | 0.520 | 74.3 | 141.8 | 46.8 | 0.303 |
| 4-4100 | 4-4660 | 0.470 | 58.0 | -57.9 | -22.25 | 1.189 | 86.6 | 0.435 | 1.782 | 11.1 | 205.7 | --- | 2.557 | 17.04 | 0.530 | 72.8 | 139.3 | 38.1 | 0.240 |
| 4-4100 | 4-4680 | 0.393 | 55.9 | -49.9 | -17.60 | 1.190 | 87.4 | 0.437 | 1.792 | 8.5 | 208.4 | --- | 2.575 | 12.59 | 0.539 | 71.4 | 139.4 | 30.5 | 0.220 |
| 4-4100 | 4-4700 | 0.349 | 56.6 | -43.5 | -14.80 | 1.192 | 88.3 | 0.439 | 1.803 | 5.6 | 210.9 | --- | 2.594 | 10.00 | 0.549 | 70.1 | 140.8 | 24.7 | 0.215 |
| 4-4100 | 4-4720 | 0.320 | 58.7 | -37.9 | -12.91 | 1.193 | 89.2 | 0.442 | 1.814 | 2.5 | 213.2 | --- | 2.615 | 8.33 | 0.559 | 69.0 | 143.0 | 20.4 | 0.217 |
| 4-4100 | 4-4740 | 0.301 | 61.8 | -32.9 | -11.52 | 1.194 | 90.3 | 0.445 | 1.826 | 359.1 | 575.5 | 1.013 | 2.638 | 7.17 | 0.569 | 67.9 | 145.8 | 17.2 | 0.223 |
| 4-4110 | 4-4230 | 0.579 | 43.3 | 0.7 | -5.69 | 1.533 | 83.5 | 1.372 | -2.686 | 11.2 | 93.0 | --- | --- | -5.20 | 1.075 | 145.9 | 158.6 | -3.6 | 0.870 |
| 4-4110 | 4-4250 | 0.482 | 38.1 | -1.5 | -5.27 | 1.427 | 82.5 | 1.058 | 17.075 | 14.8 | 100.9 | --- | --- | -5.15 | 0.916 | 142.4 | 159.8 | -4.0 | 0.712 |
| 4-4110 | 4-4270 | 0.422 | 32.4 | -3.5 | -4.86 | 1.355 | 81.5 | 0.860 | 7.046 | 18.4 | 109.3 | --- | --- | -5.14 | 0.798 | 138.6 | 160.9 | -4.6 | 0.593 |
| 4-4110 | 4-4290 | 0.384 | 26.9 | -5.1 | -4.45 | 1.305 | 80.6 | 0.730 | 3.626 | 22.3 | 117.8 | --- | --- | -5.17 | 0.709 | 134.4 | 161.7 | -5.2 | 0.499 |
| 4-4110 | 4-4310 | 0.360 | 21.8 | -6.0 | -4.03 | 1.269 | 79.8 | 0.643 | 2.720 | 26.1 | 126.2 | --- | --- | -5.22 | 0.640 | 129.9 | 162.3 | -6.1 | 0.424 |
| 4-4110 | 4-4330 | 0.345 | 17.5 | -6.5 | -3.60 | 1.244 | 79.2 | 0.584 | 2.315 | 29.5 | 134.2 | --- | --- | -5.32 | 0.588 | 125.3 | 162.5 | -7.0 | 0.363 |
| 4-4110 | 4-4350 | 0.335 | 13.9 | -6.4 | -3.16 | 1.225 | 78.7 | 0.544 | 2.094 | 32.4 | 141.6 | --- | --- | -5.45 | 0.548 | 120.5 | 162.2 | -8.2 | 0.314 |
| 4-4110 | 4-4370 | 0.329 | 11.0 | -5.8 | -2.68 | 1.212 | 78.3 | 0.516 | 1.960 | 34.7 | 148.5 | --- | --- | -5.62 | 0.519 | 115.7 | 161.5 | -9.6 | 0.273 |
| 4-4110 | 4-4390 | 0.323 | 8.8 | -4.9 | -2.17 | 1.202 | 78.1 | 0.496 | 1.875 | 36.4 | 154.7 | --- | --- | -5.84 | 0.497 | 111.0 | 160.1 | -11.3 | 0.241 |
| 4-4110 | 4-4410 | 0.318 | 7.0 | -3.5 | -1.62 | 1.195 | 78.0 | 0.482 | 1.818 | 37.6 | 160.4 | --- | --- | -6.13 | 0.482 | 106.5 | 158.1 | -13.3 | 0.215 |
| 4-4110 | 4-4430 | 0.314 | 5.5 | -1.6 | -0.99 | 1.190 | 78.0 | 0.471 | 1.781 | 38.2 | 165.6 | --- | --- | -6.48 | 0.472 | 102.1 | 155.4 | -15.5 | 0.195 |
| 4-4110 | 4-4450 | 0.310 | 4.4 | 0.7 | -0.29 | 1.187 | 78.1 | 0.464 | 1.757 | 38.3 | 170.4 | --- | --- | -6.94 | 0.467 | 98.1 | 152.2 | -18.0 | 0.181 |
| 4-4110 | 4-4470 | 0.306 | 3.3 | 3.7 | 0.54 | 1.185 | 78.3 | 0.458 | 1.741 | 38.1 | 174.8 | --- | --- | -7.52 | 0.465 | 94.4 | 148.7 | -20.7 | 0.171 |
| 4-4110 | 4-4490 | 0.303 | 2.2 | 7.4 | 1.53 | 1.184 | 78.5 | 0.454 | 1.732 | 37.5 | 178.9 | --- | --- | -8.27 | 0.466 | 90.9 | 145.0 | -23.6 | 0.167 |
| 4-4110 | 4-4510 | 0.301 | 0.9 | 12.1 | 2.77 | 1.183 | 78.8 | 0.451 | 1.728 | 36.6 | 182.7 | --- | 2.507 | -9.26 | 0.469 | 87.8 | 141.5 | -26.6 | 0.188 |
| 4-4110 | 4-4530 | 0.302 | 359.0 | 18.2 | 4.36 | 1.183 | 79.2 | 0.448 | 1.728 | 35.4 | 186.3 | --- | 2.503 | -10.63 | 0.474 | 84.9 | 138.6 | -30.0 | 0.174 |
| 4-4110 | 4-4550 | 0.310 | 355.8 | 26.0 | 6.55 | 1.183 | 79.7 | 0.447 | 1.731 | 34.0 | 189.7 | --- | 2.504 | -12.59 | 0.480 | 82.3 | 136.5 | -33.7 | 0.187 |
| 4-4110 | 4-4570 | 0.334 | 349.8 | 35.9 | 9.79 | 1.184 | 80.2 | 0.445 | 1.736 | 32.4 | 192.9 | --- | 2.509 | -15.59 | 0.487 | 80.0 | 135.5 | -38.1 | 0.209 |
| 4-4110 | 4-4590 | 0.393 | 337.6 | 47.1 | 15.11 | 1.185 | 80.7 | 0.445 | 1.742 | 30.7 | 196.0 | --- | 2.518 | -20.68 | 0.495 | 77.9 | 136.3 | -43.3 | 0.249 |
| 4-4110 | 4-4610 | 0.544 | 311.2 | 55.3 | 25.43 | 1.186 | 81.1 | 0.445 | 1.751 | 29.1 | 199.0 | --- | 2.529 | -30.77 | 0.504 | 76.0 | 140.1 | -48.4 | 0.335 |
| 4-4110 | 4-4630 | 0.959 | 274.0 | 47.8 | 50.61 | 1.187 | 81.4 | 0.446 | 1.760 | 28.2 | 202.0 | --- | 2.545 | -55.72 | 0.513 | 74.1 | 149.9 | -47.9 | 0.550 |
| 4-4110 | 4-4670 | 0.789 | 69.9 | -76.1 | -40.73 | 1.190 | 84.5 | 0.441 | 1.781 | 18.0 | 206.8 | --- | 2.565 | 36.10 | 0.533 | 71.9 | 149.4 | 48.8 | 0.397 |
| 4-4110 | 4-4690 | 0.554 | 58.7 | -62.5 | -26.92 | 1.192 | 85.2 | 0.442 | 1.792 | 15.8 | 209.4 | --- | 2.585 | 22.54 | 0.543 | 70.6 | 145.0 | 42.0 | 0.293 |
| 4-4110 | 4-4710 | 0.443 | 56.7 | -53.0 | -20.32 | 1.193 | 86.0 | 0.444 | 1.804 | 13.1 | 211.8 | --- | 2.605 | 16.19 | 0.553 | 69.4 | 144.6 | 34.3 | 0.256 |
| 4-4110 | 4-4730 | 0.380 | 57.5 | -45.7 | -16.50 | 1.195 | 86.9 | 0.446 | 1.816 | 9.9 | 214.1 | --- | 2.626 | 12.63 | 0.563 | 68.4 | 146.0 | 28.0 | 0.243 |
| 4-4110 | 4-4750 | 0.340 | 59.8 | -39.5 | -13.98 | 1.196 | 88.0 | 0.448 | 1.829 | 6.6 | 216.4 | --- | 2.648 | 10.39 | 0.573 | 67.4 | 148.5 | 23.2 | 0.242 |
| 4-4120 | 4-4240 | 0.589 | 36.2 | -0.6 | -5.66 | 1.493 | 77.4 | 1.239 | -4.041 | 22.7 | 97.2 | --- | --- | -6.12 | 1.015 | 145.5 | 159.0 | -4.3 | 0.820 |
| 4-4120 | 4-4260 | 0.508 | 30.5 | -2.4 | -5.16 | 1.397 | 76.8 | 0.970 | 31.465 | 26.9 | 105.9 | --- | --- | -6.01 | 0.865 | 141.8 | 159.9 | -4.8 | 0.671 |
| 4-4120 | 4-4280 | 0.459 | 25.1 | -3.8 | -4.68 | 1.331 | 76.1 | 0.802 | 4.757 | 31.3 | 114.9 | --- | --- | -5.94 | 0.754 | 137.7 | 160.6 | -5.4 | 0.558 |
| 4-4120 | 4-4300 | 0.429 | 20.2 | -4.7 | -4.20 | 1.286 | 75.5 | 0.694 | 3.043 | 35.7 | 123.8 | --- | --- | -5.90 | 0.670 | 133.2 | 161.0 | -6.1 | 0.469 |
| 4-4120 | 4-4320 | 0.411 | 16.1 | -5.1 | -3.73 | 1.254 | 75.0 | 0.623 | 2.442 | 39.6 | 132.3 | --- | --- | -5.91 | 0.607 | 128.5 | 161.1 | -7.0 | 0.399 |
| 4-4120 | 4-4340 | 0.399 | 12.8 | -5.1 | -3.26 | 1.232 | 74.6 | 0.576 | 2.147 | 42.9 | 140.1 | --- | --- | -5.95 | 0.559 | 123.5 | 160.8 | -8.1 | 0.342 |
| 4-4120 | 4-4360 | 0.390 | 10.3 | -4.7 | -2.78 | 1.216 | 74.3 | 0.544 | 1.980 | 45.4 | 147.2 | --- | --- | -6.03 | 0.523 | 118.5 | 160.0 | -9.4 | 0.297 |
| 4-4120 | 4-4380 | 0.384 | 8.3 | -3.9 | -2.28 | 1.204 | 74.2 | 0.522 | 1.877 | 47.3 | 153.7 | --- | --- | -6.15 | 0.497 | 113.5 | 158.6 | -10.8 | 0.260 |
| 4-4120 | 4-4400 | 0.378 | 6.8 | -2.9 | -1.75 | 1.196 | 74.1 | 0.506 | 1.810 | 48.6 | 159.5 | --- | --- | -6.32 | 0.478 | 108.7 | 156.6 | -12.5 | 0.231 |
| 4-4120 | 4-4420 | 0.373 | 5.7 | -1.5 | -1.19 | 1.190 | 74.2 | 0.495 | 1.767 | 49.2 | 164.7 | --- | --- | -6.54 | 0.466 | 104.0 | 154.0 | -14.3 | 0.208 |
| 4-4120 | 4-4440 | 0.367 | 4.8 | 0.1 | -0.58 | 1.187 | 74.3 | 0.486 | 1.740 | 49.4 | 169.5 | --- | --- | -6.82 | 0.459 | 99.7 | 150.9 | -16.3 | 0.191 |
| 4-4120 | 4-4460 | 0.362 | 4.2 | 2.1 | 0.10 | 1.184 | 74.6 | 0.480 | 1.722 | 49.1 | 173.8 | --- | --- | -7.19 | 0.456 | 95.6 | 147.5 | -18.4 | 0.180 |
| 4-4120 | 4-4480 | 0.357 | 3.6 | 4.6 | 0.86 | 1.183 | 74.9 | 0.475 | 1.713 | 48.5 | 177.9 | --- | --- | -7.65 | 0.456 | 91.9 | 143.9 | -20.5 | 0.173 |
| 4-4120 | 4-4500 | 0.351 | 3.1 | 7.5 | 1.74 | 1.182 | 75.2 | 0.471 | 1.708 | 47.5 | 181.6 | --- | 2.513 | -8.23 | 0.459 | 88.6 | 140.5 | -22.7 | 0.170 |
| 4-4120 | 4-4520 | 0.347 | 2.4 | 11.1 | 2.78 | 1.182 | 75.7 | 0.468 | 1.708 | 46.3 | 185.1 | --- | 2.507 | -8.99 | 0.464 | 85.5 | 137.6 | -24.9 | 0.172 |
| 4-4120 | 4-4540 | 0.344 | 1.4 | 15.5 | 4.07 | 1.183 | 76.2 | 0.465 | 1.711 | 44.8 | 188.5 | --- | 2.507 | -9.99 | 0.470 | 82.8 | 135.3 | -27.2 | 0.177 |
| 4-4120 | 4-4560 | 0.345 | 359.8 | 21.1 | 5.70 | 1.183 | 76.7 | 0.463 | 1.717 | 43.1 | 191.6 | --- | 2.511 | -11.35 | 0.478 | 80.3 | 133.9 | -29.8 | 0.187 |
| 4-4120 | 4-4580 | 0.352 | 356.9 | 28.0 | 7.89 | 1.184 | 77.3 | 0.461 | 1.724 | 41.3 | 194.6 | --- | 2.518 | -13.27 | 0.486 | 78.1 | 133.5 | -32.8 | 0.201 |
| 4-4120 | 4-4600 | 0.374 | 351.7 | 36.6 | 11.03 | 1.186 | 77.9 | 0.459 | 1.733 | 39.3 | 197.5 | --- | 2.529 | -16.13 | 0.495 | 76.2 | 134.1 | -36.6 | 0.224 |
| 4-4120 | 4-4620 | 0.426 | 341.1 | 46.2 | 15.96 | 1.187 | 78.5 | 0.458 | 1.743 | 37.2 | 200.3 | --- | 2.541 | -20.79 | 0.505 | 74.4 | 136.4 | -41.2 | 0.262 |
| 4-4120 | 4-4640 | 0.549 | 319.6 | 53.8 | 24.82 | 1.189 | 79.1 | 0.458 | 1.754 | 35.2 | 203.1 | --- | 2.557 | -29.38 | 0.515 | 72.8 | 141.4 | -46.2 | 0.334 |
| 4-4120 | 4-4660 | 0.859 | 287.4 | 50.2 | 44.07 | 1.190 | 79.6 | 0.459 | 1.765 | 33.6 | 205.7 | --- | 2.575 | -48.35 | 0.525 | 71.2 | 151.6 | -48.1 | 0.499 |
| 4-4120 | 4-4700 | 0.955 | 59.2 | -82.2 | -50.35 | 1.193 | 83.2 | 0.449 | 1.790 | 22.1 | 210.2 | --- | 2.595 | 46.62 | 0.546 | 69.7 | 158.7 | 48.3 | 0.498 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4120 | 4-4720 | 0.637 | 57.3 | -65.6 | -31.49 | 1.195 | 83.8 | 0.451 | 1.803 | 20.0 | 212.7 | --- | 2.617 | 28.05 | 0.556 | 68.6 | 152.1 | 44.1 | 0.350 |
| 4-4120 | 4-4740 | 0.490 | 57.0 | -54.7 | -22.75 | 1.197 | 84.7 | 0.452 | 1.817 | 17.1 | 215.0 | --- | 2.639 | 19.61 | 0.566 | 67.6 | 150.8 | 36.7 | 0.294 |
| 4-4120 | 4-4760 | 0.408 | 58.4 | -46.4 | -17.87 | 1.199 | 85.7 | 0.454 | 1.830 | 13.8 | 217.2 | --- | 2.661 | 15.03 | 0.576 | 66.8 | 152.1 | 30.2 | 0.273 |
| 4-4130 | 4-4250 | 0.631 | 29.7 | -1.2 | -5.71 | 1.453 | 71.0 | 1.112 | -8.040 | 36.1 | 103.2 | --- | --- | -7.05 | 0.952 | 145.4 | 158.5 | -4.9 | 0.772 |
| 4-4130 | 4-4270 | 0.562 | 24.5 | -2.5 | -5.12 | 1.366 | 70.7 | 0.891 | 8.179 | 41.1 | 112.7 | --- | --- | -6.84 | 0.811 | 141.4 | 159.1 | -5.5 | 0.632 |
| 4-4130 | 4-4290 | 0.520 | 19.9 | -3.3 | -4.56 | 1.307 | 70.4 | 0.756 | 3.583 | 46.0 | 122.2 | --- | --- | -6.69 | 0.707 | 137.0 | 159.4 | -6.1 | 0.525 |
| 4-4130 | 4-4310 | 0.494 | 16.1 | -3.7 | -4.02 | 1.267 | 70.1 | 0.671 | 2.613 | 50.4 | 131.1 | --- | --- | -6.58 | 0.629 | 132.1 | 159.4 | -6.9 | 0.442 |
| 4-4130 | 4-4330 | 0.477 | 13.1 | -3.7 | -3.50 | 1.239 | 69.9 | 0.616 | 2.209 | 54.0 | 139.3 | --- | --- | -6.51 | 0.570 | 127.0 | 158.9 | -7.9 | 0.377 |
| 4-4130 | 4-4350 | 0.466 | 10.9 | -3.3 | -2.98 | 1.219 | 69.8 | 0.580 | 1.997 | 56.8 | 146.6 | --- | --- | -6.49 | 0.527 | 121.7 | 158.0 | -9.0 | 0.325 |
| 4-4130 | 4-4370 | 0.456 | 9.2 | -2.7 | -2.46 | 1.206 | 69.7 | 0.555 | 1.872 | 58.8 | 153.2 | --- | --- | -6.51 | 0.495 | 116.4 | 156.6 | -10.2 | 0.283 |
| 4-4130 | 4-4390 | 0.449 | 7.9 | -1.9 | -1.94 | 1.196 | 69.8 | 0.538 | 1.795 | 60.1 | 159.0 | --- | --- | -6.57 | 0.473 | 111.2 | 154.5 | -11.6 | 0.250 |
| 4-4130 | 4-4410 | 0.442 | 7.0 | -0.8 | -1.40 | 1.190 | 70.0 | 0.525 | 1.746 | 60.7 | 164.2 | --- | --- | -6.68 | 0.458 | 106.1 | 152.0 | -13.2 | 0.224 |
| 4-4130 | 4-4430 | 0.434 | 6.4 | 0.5 | -0.83 | 1.185 | 70.2 | 0.516 | 1.715 | 60.8 | 168.9 | --- | --- | -6.83 | 0.449 | 101.4 | 148.9 | -14.8 | 0.205 |
| 4-4130 | 4-4450 | 0.427 | 6.0 | 2.0 | -0.23 | 1.183 | 70.5 | 0.508 | 1.697 | 60.5 | 173.2 | --- | --- | -7.04 | 0.445 | 96.9 | 145.6 | -16.4 | 0.191 |
| 4-4130 | 4-4470 | 0.420 | 5.8 | 3.7 | 0.42 | 1.181 | 70.9 | 0.502 | 1.686 | 59.8 | 177.1 | --- | --- | -7.31 | 0.444 | 92.9 | 142.1 | -18.0 | 0.183 |
| 4-4130 | 4-4490 | 0.413 | 5.6 | 5.7 | 1.13 | 1.180 | 71.3 | 0.497 | 1.682 | 58.7 | 180.8 | --- | 2.518 | -7.67 | 0.447 | 89.3 | 138.9 | -19.6 | 0.178 |
| 4-4130 | 4-4510 | 0.406 | 5.4 | 8.1 | 1.92 | 1.180 | 71.8 | 0.493 | 1.682 | 57.4 | 184.2 | --- | 2.512 | -8.12 | 0.452 | 86.0 | 136.1 | -21.1 | 0.177 |
| 4-4130 | 4-4530 | 0.399 | 5.2 | 11.0 | 2.83 | 1.181 | 72.4 | 0.489 | 1.686 | 55.8 | 187.4 | --- | 2.511 | -8.69 | 0.458 | 83.0 | 133.8 | -22.5 | 0.179 |
| 4-4130 | 4-4550 | 0.393 | 4.8 | 14.4 | 3.91 | 1.182 | 73.0 | 0.486 | 1.692 | 54.0 | 190.4 | --- | 2.514 | -9.44 | 0.486 | 80.4 | 132.3 | -24.1 | 0.184 |
| 4-4130 | 4-4570 | 0.389 | 4.1 | 18.5 | 5.20 | 1.183 | 73.6 | 0.483 | 1.701 | 52.1 | 193.4 | --- | 2.521 | -10.42 | 0.475 | 78.1 | 131.6 | -25.9 | 0.192 |
| 4-4130 | 4-4590 | 0.388 | 2.7 | 23.6 | 6.84 | 1.185 | 74.3 | 0.480 | 1.710 | 50.0 | 196.2 | --- | 2.531 | -11.73 | 0.484 | 76.1 | 131.7 | -28.1 | 0.203 |
| 4-4130 | 4-4610 | 0.393 | 0.3 | 29.9 | 8.99 | 1.186 | 75.0 | 0.477 | 1.721 | 47.7 | 198.9 | --- | 2.543 | -13.57 | 0.494 | 74.2 | 132.7 | -30.8 | 0.218 |
| 4-4130 | 4-4630 | 0.411 | 355.6 | 37.4 | 11.99 | 1.188 | 75.8 | 0.475 | 1.733 | 45.4 | 201.6 | --- | 2.557 | -16.27 | 0.505 | 72.6 | 134.6 | -34.2 | 0.240 |
| 4-4130 | 4-4650 | 0.456 | 346.4 | 45.9 | 16.57 | 1.190 | 76.5 | 0.473 | 1.746 | 42.9 | 204.1 | --- | 2.572 | -20.54 | 0.516 | 71.2 | 137.9 | -38.6 | 0.275 |
| 4-4130 | 4-4670 | 0.558 | 328.1 | 53.0 | 24.38 | 1.191 | 77.3 | 0.472 | 1.759 | 40.5 | 206.6 | --- | 2.590 | -28.04 | 0.526 | 69.9 | 143.5 | -43.6 | 0.337 |
| 4-4130 | 4-4690 | 0.804 | 299.4 | 51.7 | 40.10 | 1.193 | 77.9 | 0.472 | 1.773 | 38.5 | 209.1 | --- | 2.610 | -43.46 | 0.537 | 68.7 | 153.9 | -47.1 | 0.470 |
| 4-4130 | 4-4730 | 1.110 | 11.3 | -84.2 | -59.59 | 1.197 | 82.0 | 0.459 | 1.801 | 25.6 | 213.4 | --- | 2.628 | 56.87 | 0.559 | 67.8 | 168.4 | 46.5 | 0.597 |
| 4-4130 | 4-4750 | 0.714 | 53.8 | -67.3 | -35.67 | 1.199 | 82.6 | 0.461 | 1.816 | 23.8 | 215.7 | --- | 2.653 | 33.28 | 0.569 | 66.8 | 160.2 | 45.0 | 0.406 |
| 4-4130 | 4-4770 | 0.529 | 57.1 | -55.0 | -24.73 | 1.201 | 83.5 | 0.462 | 1.831 | 20.8 | 217.8 | --- | 2.676 | 22.68 | 0.579 | 66.0 | 157.7 | 38.1 | 0.331 |
| 4-4140 | 4-4280 | 0.638 | 20.6 | -1.9 | -5.16 | 1.335 | 64.3 | 0.833 | 4.748 | 57.1 | 121.3 | --- | --- | -7.67 | 0.754 | 141.4 | 157.4 | -6.0 | 0.597 |
| 4-4140 | 4-4300 | 0.599 | 17.1 | -2.2 | -4.51 | 1.283 | 64.4 | 0.729 | 2.879 | 62.0 | 130.7 | --- | --- | -7.41 | 0.656 | 136.5 | 157.2 | -6.7 | 0.497 |
| 4-4140 | 4-4320 | 0.574 | 14.5 | -2.1 | -3.90 | 1.248 | 64.4 | 0.666 | 2.290 | 65.9 | 139.2 | --- | --- | -7.21 | 0.584 | 131.2 | 156.6 | -7.5 | 0.420 |
| 4-4140 | 4-4340 | 0.556 | 12.4 | -1.8 | -3.31 | 1.223 | 64.6 | 0.625 | 2.015 | 68.9 | 146.7 | --- | --- | -7.06 | 0.531 | 125.6 | 155.6 | -8.5 | 0.359 |
| 4-4140 | 4-4360 | 0.542 | 11.0 | -1.3 | -2.75 | 1.207 | 64.7 | 0.597 | 1.863 | 70.9 | 153.3 | --- | --- | -6.96 | 0.492 | 119.9 | 154.0 | -9.6 | 0.311 |
| 4-4140 | 4-4380 | 0.531 | 10.0 | -0.6 | -2.19 | 1.196 | 65.0 | 0.578 | 1.773 | 72.2 | 159.0 | --- | --- | -6.91 | 0.464 | 114.2 | 152.0 | -10.7 | 0.274 |
| 4-4140 | 4-4400 | 0.521 | 9.3 | 0.3 | -1.64 | 1.188 | 65.3 | 0.564 | 1.718 | 72.7 | 164.1 | --- | --- | -6.90 | 0.446 | 108.6 | 149.4 | -12.0 | 0.245 |
| 4-4140 | 4-4420 | 0.511 | 8.9 | 1.4 | -1.08 | 1.183 | 65.6 | 0.553 | 1.684 | 72.7 | 168.7 | --- | --- | -6.94 | 0.435 | 103.3 | 146.4 | -13.3 | 0.223 |
| 4-4140 | 4-4440 | 0.502 | 8.7 | 2.6 | -0.51 | 1.180 | 66.0 | 0.544 | 1.664 | 72.2 | 172.8 | --- | --- | -7.02 | 0.430 | 98.4 | 143.1 | -14.5 | 0.207 |
| 4-4140 | 4-4460 | 0.493 | 8.6 | 3.9 | 0.08 | 1.178 | 66.5 | 0.537 | 1.653 | 71.3 | 178.6 | --- | --- | -7.15 | 0.429 | 94.0 | 139.9 | -15.7 | 0.196 |
| 4-4140 | 4-4480 | 0.483 | 8.7 | 5.5 | 0.70 | 1.178 | 67.1 | 0.531 | 1.649 | 70.1 | 180.1 | --- | 2.524 | -7.34 | 0.431 | 89.9 | 136.8 | -16.8 | 0.190 |
| 4-4140 | 4-4500 | 0.474 | 8.8 | 7.2 | 1.37 | 1.178 | 67.7 | 0.525 | 1.650 | 68.7 | 183.3 | --- | 2.517 | -7.60 | 0.436 | 86.3 | 134.1 | -17.9 | 0.187 |
| 4-4140 | 4-4520 | 0.464 | 8.9 | 9.2 | 2.10 | 1.179 | 68.3 | 0.520 | 1.655 | 67.0 | 186.4 | --- | 2.515 | -7.93 | 0.443 | 83.1 | 132.0 | -18.9 | 0.188 |
| 4-4140 | 4-4540 | 0.455 | 9.0 | 11.6 | 2.91 | 1.180 | 69.0 | 0.515 | 1.662 | 65.1 | 189.4 | --- | 2.518 | -8.35 | 0.451 | 80.3 | 130.5 | -19.9 | 0.190 |
| 4-4140 | 4-4560 | 0.446 | 9.0 | 14.3 | 3.83 | 1.181 | 69.7 | 0.511 | 1.672 | 63.1 | 192.2 | --- | 2.526 | -8.91 | 0.461 | 77.9 | 129.8 | -21.0 | 0.195 |
| 4-4140 | 4-4580 | 0.438 | 8.8 | 17.5 | 4.91 | 1.183 | 70.5 | 0.507 | 1.683 | 60.9 | 194.9 | --- | 2.536 | -9.62 | 0.471 | 75.7 | 129.8 | -22.2 | 0.202 |
| 4-4140 | 4-4600 | 0.432 | 8.3 | 21.4 | 6.19 | 1.185 | 71.3 | 0.503 | 1.695 | 58.5 | 197.5 | --- | 2.547 | -10.56 | 0.482 | 73.8 | 130.4 | -23.8 | 0.210 |
| 4-4140 | 4-4620 | 0.429 | 7.3 | 26.0 | 7.80 | 1.187 | 72.1 | 0.499 | 1.708 | 56.0 | 200.1 | --- | 2.560 | -11.81 | 0.493 | 72.1 | 131.8 | -25.7 | 0.222 |
| 4-4140 | 4-4640 | 0.432 | 5.1 | 31.7 | 9.88 | 1.189 | 72.9 | 0.495 | 1.722 | 53.4 | 202.6 | --- | 2.575 | -13.55 | 0.504 | 70.7 | 133.8 | -28.2 | 0.236 |
| 4-4140 | 4-4660 | 0.446 | 1.1 | 38.5 | 12.73 | 1.191 | 73.8 | 0.492 | 1.737 | 50.7 | 205.0 | --- | 2.591 | -16.07 | 0.516 | 69.4 | 136.6 | -31.4 | 0.256 |
| 4-4140 | 4-4680 | 0.483 | 353.0 | 46.2 | 16.98 | 1.193 | 74.7 | 0.489 | 1.752 | 48.0 | 207.4 | --- | 2.609 | -19.97 | 0.527 | 68.3 | 140.6 | -35.6 | 0.288 |
| 4-4140 | 4-4700 | 0.569 | 337.1 | 53.0 | 23.97 | 1.195 | 75.5 | 0.487 | 1.767 | 45.3 | 209.7 | --- | 2.628 | -26.63 | 0.539 | 67.3 | 146.6 | -40.7 | 0.342 |
| 4-4140 | 4-4720 | 0.770 | 310.6 | 53.3 | 37.36 | 1.197 | 76.3 | 0.486 | 1.782 | 42.9 | 212.0 | --- | 2.649 | -39.68 | 0.550 | 66.3 | 156.7 | -45.3 | 0.453 |
| 4-4140 | 4-4780 | 0.781 | 49.6 | -67.3 | -39.21 | 1.203 | 81.4 | 0.471 | 1.830 | 27.1 | 218.3 | --- | 2.692 | 37.94 | 0.582 | 65.1 | 168.6 | 45.1 | 0.459 |
| 4-4150 | 4-4290 | 0.730 | 18.9 | -0.6 | -5.30 | 1.305 | 57.6 | 0.801 | 3.390 | 74.4 | 131.1 | --- | --- | -8.51 | 0.695 | 141.9 | 154.7 | -6.4 | 0.569 |
| 4-4150 | 4-4310 | 0.691 | 16.5 | -0.6 | -4.53 | 1.259 | 58.1 | 0.726 | 2.420 | 78.7 | 139.9 | --- | --- | -8.11 | 0.604 | 136.5 | 154.0 | -7.1 | 0.475 |
| 4-4150 | 4-4330 | 0.664 | 14.7 | -0.3 | -3.82 | 1.229 | 58.5 | 0.680 | 2.043 | 81.7 | 147.4 | --- | --- | -7.80 | 0.537 | 130.6 | 152.8 | -7.9 | 0.403 |
| 4-4150 | 4-4350 | 0.643 | 13.5 | 0.2 | -3.17 | 1.208 | 59.0 | 0.649 | 1.853 | 83.6 | 153.9 | --- | --- | -7.55 | 0.488 | 124.4 | 151.2 | -8.8 | 0.347 |
| 4-4150 | 4-4370 | 0.626 | 12.7 | 0.9 | -2.54 | 1.194 | 59.4 | 0.627 | 1.746 | 84.7 | 159.5 | --- | --- | -7.37 | 0.454 | 118.1 | 149.1 | -9.7 | 0.304 |
| 4-4150 | 4-4390 | 0.612 | 12.2 | 1.7 | -1.95 | 1.185 | 60.0 | 0.612 | 1.683 | 85.0 | 164.4 | --- | --- | -7.23 | 0.432 | 111.9 | 146.5 | -10.7 | 0.271 |
| 4-4150 | 4-4410 | 0.599 | 12.0 | 2.6 | -1.37 | 1.179 | 60.5 | 0.599 | 1.645 | 84.8 | 168.7 | --- | --- | -7.15 | 0.418 | 105.9 | 143.6 | -11.7 | 0.246 |
| 4-4150 | 4-4430 | 0.586 | 11.9 | 3.6 | -0.79 | 1.176 | 61.1 | 0.589 | 1.624 | 84.1 | 172.6 | --- | --- | -7.11 | 0.411 | 100.3 | 140.5 | -12.7 | 0.228 |
| 4-4150 | 4-4450 | 0.574 | 12.0 | 4.8 | -0.21 | 1.174 | 61.7 | 0.580 | 1.613 | 83.1 | 176.2 | --- | --- | -7.12 | 0.409 | 95.2 | 137.3 | -13.6 | 0.215 |
| 4-4150 | 4-4470 | 0.562 | 12.2 | 6.0 | 0.37 | 1.174 | 62.4 | 0.572 | 1.610 | 81.7 | 179.5 | --- | --- | -7.17 | 0.411 | 90.7 | 134.5 | -14.4 | 0.207 |
| 4-4150 | 4-4490 | 0.550 | 12.5 | 7.4 | 0.98 | 1.174 | 63.1 | 0.565 | 1.612 | 80.1 | 182.6 | --- | 2.522 | -7.28 | 0.417 | 86.7 | 132.0 | -15.1 | 0.202 |
| 4-4150 | 4-4510 | 0.538 | 12.9 | 9.0 | 1.61 | 1.175 | 63.9 | 0.558 | 1.617 | 78.3 | 185.5 | --- | 2.520 | -7.44 | 0.424 | 83.1 | 130.0 | -15.7 | 0.201 |
| 4-4150 | 4-4530 | 0.526 | 13.2 | 10.7 | 2.29 | 1.176 | 64.6 | 0.552 | 1.626 | 76.3 | 188.3 | --- | 2.523 | -7.67 | 0.434 | 80.1 | 128.7 | -16.4 | 0.202 |
| 4-4150 | 4-4550 | 0.514 | 13.6 | 12.7 | 3.02 | 1.178 | 65.5 | 0.545 | 1.637 | 74.1 | 191.0 | --- | 2.530 | -7.97 | 0.444 | 77.4 | 128.0 | -17.0 | 0.205 |
| 4-4150 | 4-4570 | 0.502 | 13.9 | 14.9 | 3.83 | 1.180 | 66.3 | 0.540 | 1.649 | 71.8 | 193.6 | --- | 2.540 | -8.37 | 0.455 | 75.1 | 128.0 | -17.8 | 0.209 |
| 4-4150 | 4-4590 | 0.491 | 14.1 | 17.5 | 4.74 | 1.182 | 67.2 | 0.534 | 1.663 | 69.4 | 196.1 | --- | 2.552 | -8.88 | 0.467 | 73.1 | 128.6 | -18.7 | 0.215 |
| 4-4150 | 4-4610 | 0.481 | 14.1 | 20.5 | 5.79 | 1.184 | 68.1 | 0.529 | 1.678 | 66.8 | 198.6 | --- | 2.565 | -9.55 | 0.479 | 71.3 | 129.7 | -19.8 | 0.222 |
| 4-4150 | 4-4630 | 0.473 | 13.8 | 24.1 | 7.05 | 1.187 | 69.0 | 0.524 | 1.693 | 64.1 | 201.0 | --- | 2.580 | -10.43 | 0.491 | 69.8 | 131.4 | -21.2 | 0.231 |
| 4-4150 | 4-4650 | 0.468 | 13.0 | 28.4 | 8.59 | 1.189 | 70.0 | 0.519 | 1.709 | 61.3 | 203.4 | --- | 2.596 | -11.60 | 0.503 | 68.6 | 133.7 | -23.0 | 0.242 |
| 4-4150 | 4-4670 | 0.468 | 11.3 | 33.5 | 10.58 | 1.191 | 71.0 | 0.514 | 1.726 | 58.4 | 205.7 | --- | 2.613 | -13.22 | 0.516 | 67.5 | 136.5 | -25.3 | 0.255 |
| 4-4150 | 4-4690 | 0.478 | 7.8 | 39.8 | 13.27 | 1.194 | 72.0 | 0.510 | 1.743 | 55.5 | 208.0 | --- | 2.631 | -15.56 | 0.528 | 66.5 | 140.0 | -28.3 | 0.273 |
| 4-4150 | 4-4710 | 0.508 | 0.8 | 46.9 | 17.20 | 1.196 | 73.0 | 0.506 | 1.759 | 52.4 | 210.2 | --- | 2.649 | -19.12 | 0.540 | 65.7 | 144.4 | -32.4 | 0.301 |
| 4-4150 | 4-4730 | 0.579 | 346.7 | 53.7 | 23.51 | 1.198 | 74.0 | 0.503 | 1.777 | 49.4 | 212.4 | --- | 2.669 | -25.08 | 0.552 | 64.9 | 150.5 | -37.6 | 0.348 |
| 4-4150 | 4-4750 | 0.747 | 321.7 | 55.2 | 35.22 | 1.201 | 74.9 | 0.500 | 1.794 | 46.6 | 214.6 | --- | 2.691 | -36.43 | 0.563 | 64.2 | 160.3 | -43.0 | 0.441 |
| 4-4160 | 4-4300 | 0.834 | 19.0 | 0.9 | -5.56 | 1.277 | 50.5 | 0.799 | 2.678 | 92.2 | 141.3 | --- | --- | -9.41 | 0.836 | 143.0 | 151.2 | -6.5 | 0.551 |
| 4-4160 | 4-4320 | 0.791 | 17.4 | 1.3 | -4.64 | 1.237 | 51.5 | 0.746 | 2.102 | 95.1 | 148.7 | --- | --- | -8.84 | 0.550 | 136.9 | 149.9 | -7.2 | 0.463 |
| 4-4160 | 4-4340 | 0.760 | 16.4 | 1.8 | -3.81 | 1.210 | 52.3 | 0.712 | 1.851 | 96.8 | 154.9 | --- | --- | -8.37 | 0.487 | 130.3 | 148.2 | -7.9 | 0.396 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4160 | 4-4360 | 0.735 | 15.8 | 2.4 | -3.06 | 1.193 | 53.2 | 0.687 | 1.719 | 97.6 | 160.3 | --- | --- | -8.00 | 0.444 | 123.3 | 146.1 | -8.6 | 0.344 |
| 4-4160 | 4-4380 | 0.715 | 15.5 | 3.2 | -2.37 | 1.182 | 53.9 | 0.669 | 1.645 | 97.7 | 164.9 | --- | --- | -7.71 | 0.414 | 116.3 | 143.5 | -9.4 | 0.305 |
| 4-4160 | 4-4400 | 0.697 | 15.4 | 4.0 | -1.72 | 1.175 | 54.7 | 0.654 | 1.602 | 97.2 | 168.9 | --- | --- | -7.48 | 0.396 | 109.4 | 140.7 | -10.2 | 0.276 |
| 4-4160 | 4-4420 | 0.680 | 15.6 | 4.9 | -1.11 | 1.171 | 55.6 | 0.642 | 1.579 | 96.2 | 172.5 | --- | --- | -7.31 | 0.387 | 102.9 | 137.7 | -10.9 | 0.254 |
| 4-4160 | 4-4440 | 0.664 | 15.8 | 5.9 | -0.51 | 1.169 | 56.4 | 0.631 | 1.567 | 94.9 | 175.9 | --- | --- | -7.19 | 0.385 | 97.0 | 134.8 | -11.5 | 0.239 |
| 4-4160 | 4-4460 | 0.649 | 16.2 | 7.0 | 0.08 | 1.169 | 57.2 | 0.621 | 1.565 | 93.4 | 179.0 | --- | --- | -7.13 | 0.387 | 91.7 | 132.2 | -12.1 | 0.229 |
| 4-4160 | 4-4480 | 0.634 | 16.6 | 8.2 | 0.66 | 1.169 | 58.1 | 0.612 | 1.567 | 91.6 | 181.8 | --- | 2.526 | -7.10 | 0.393 | 87.1 | 129.9 | -12.6 | 0.223 |
| 4-4160 | 4-4500 | 0.620 | 17.1 | 9.5 | 1.25 | 1.170 | 59.0 | 0.603 | 1.574 | 89.6 | 184.6 | --- | 2.524 | -7.13 | 0.401 | 83.1 | 128.1 | -13.0 | 0.220 |
| 4-4160 | 4-4520 | 0.605 | 17.6 | 10.9 | 1.86 | 1.172 | 59.9 | 0.595 | 1.585 | 87.5 | 187.2 | --- | 2.527 | -7.21 | 0.412 | 79.6 | 126.9 | -13.4 | 0.219 |
| 4-4160 | 4-4540 | 0.590 | 18.2 | 12.4 | 2.49 | 1.174 | 60.9 | 0.587 | 1.597 | 85.2 | 189.8 | --- | 2.534 | -7.34 | 0.423 | 76.7 | 126.4 | -13.8 | 0.221 |
| 4-4160 | 4-4560 | 0.576 | 18.8 | 14.1 | 3.15 | 1.176 | 61.8 | 0.579 | 1.611 | 82.8 | 192.2 | --- | 2.545 | -7.54 | 0.436 | 74.2 | 126.4 | -14.2 | 0.223 |
| 4-4160 | 4-4580 | 0.562 | 19.3 | 16.0 | 3.87 | 1.179 | 62.8 | 0.572 | 1.626 | 80.2 | 194.6 | --- | 2.557 | -7.80 | 0.449 | 72.1 | 126.9 | -14.8 | 0.227 |
| 4-4160 | 4-4600 | 0.548 | 19.8 | 18.1 | 4.66 | 1.182 | 63.8 | 0.565 | 1.643 | 77.6 | 197.0 | --- | 2.571 | -8.16 | 0.462 | 70.2 | 128.0 | -15.4 | 0.232 |
| 4-4160 | 4-4620 | 0.534 | 20.2 | 20.6 | 5.54 | 1.184 | 64.8 | 0.558 | 1.660 | 74.8 | 199.3 | --- | 2.586 | -8.63 | 0.475 | 68.7 | 129.6 | -16.2 | 0.238 |
| 4-4160 | 4-4640 | 0.522 | 20.4 | 23.4 | 6.56 | 1.187 | 65.9 | 0.551 | 1.677 | 72.0 | 201.6 | --- | 2.602 | -9.24 | 0.489 | 67.4 | 131.7 | -17.2 | 0.245 |
| 4-4160 | 4-4660 | 0.511 | 20.4 | 26.7 | 7.76 | 1.189 | 66.9 | 0.545 | 1.695 | 69.0 | 203.9 | --- | 2.619 | -10.05 | 0.502 | 66.3 | 134.1 | -18.5 | 0.253 |
| 4-4160 | 4-4680 | 0.503 | 19.8 | 30.7 | 9.23 | 1.192 | 68.0 | 0.539 | 1.714 | 66.0 | 206.1 | --- | 2.637 | -11.14 | 0.515 | 65.3 | 137.0 | -20.1 | 0.263 |
| 4-4160 | 4-4700 | 0.500 | 18.5 | 35.5 | 11.10 | 1.195 | 69.1 | 0.533 | 1.732 | 62.8 | 208.3 | --- | 2.655 | -12.63 | 0.528 | 64.5 | 140.4 | -22.3 | 0.275 |
| 4-4160 | 4-4720 | 0.506 | 15.7 | 41.2 | 13.61 | 1.197 | 70.3 | 0.527 | 1.751 | 59.6 | 210.5 | --- | 2.674 | -14.76 | 0.541 | 63.9 | 144.3 | -25.2 | 0.291 |
| 4-4160 | 4-4740 | 0.529 | 9.7 | 48.0 | 17.22 | 1.200 | 71.4 | 0.522 | 1.769 | 56.3 | 212.7 | --- | 2.693 | -18.01 | 0.553 | 63.3 | 149.0 | -29.1 | 0.314 |
| 4-4160 | 4-4760 | 0.588 | 357.2 | 54.8 | 22.94 | 1.202 | 72.5 | 0.518 | 1.788 | 53.0 | 214.8 | --- | 2.713 | -23.36 | 0.565 | 62.8 | 155.1 | -34.2 | 0.354 |
| 4-4160 | 4-4780 | 0.729 | 333.3 | 57.6 | 33.32 | 1.205 | 73.6 | 0.514 | 1.807 | 49.8 | 216.8 | --- | 2.736 | -33.37 | 0.576 | 62.3 | 164.5 | -40.3 | 0.434 |
| 4-4160 | 4-4800 | 1.076 | 307.2 | 47.6 | 55.66 | 1.207 | 74.3 | 0.513 | 1.825 | 47.4 | 218.8 | --- | 2.762 | -55.34 | 0.587 | 61.8 | 180.6 | -43.4 | 0.620 |
| 4-4170 | 4-4310 | 0.946 | 20.4 | 2.7 | -6.00 | 1.251 | 43.2 | 0.823 | 2.251 | 109.2 | 150.7 | --- | --- | -10.43 | 0.578 | 145.0 | 147.0 | -6.3 | 0.545 |
| 4-4170 | 4-4330 | 0.898 | 19.6 | 3.3 | -4.85 | 1.215 | 44.6 | 0.785 | 1.876 | 110.5 | 156.5 | --- | --- | -9.60 | 0.495 | 138.1 | 145.3 | -6.9 | 0.461 |
| 4-4170 | 4-4350 | 0.861 | 19.1 | 3.9 | -3.86 | 1.193 | 45.9 | 0.757 | 1.701 | 110.9 | 161.4 | --- | --- | -8.94 | 0.436 | 130.5 | 143.2 | -7.4 | 0.398 |
| 4-4170 | 4-4370 | 0.832 | 19.0 | 4.7 | -3.00 | 1.179 | 47.1 | 0.736 | 1.609 | 110.6 | 165.6 | --- | --- | -8.42 | 0.397 | 122.5 | 140.8 | -8.0 | 0.351 |
| 4-4170 | 4-4390 | 0.807 | 19.1 | 5.5 | -2.22 | 1.170 | 48.2 | 0.718 | 1.558 | 109.7 | 169.3 | --- | --- | -8.00 | 0.372 | 114.5 | 138.1 | -8.6 | 0.315 |
| 4-4170 | 4-4410 | 0.785 | 19.4 | 6.4 | -1.51 | 1.165 | 49.4 | 0.703 | 1.531 | 108.5 | 172.6 | --- | --- | -7.66 | 0.359 | 106.7 | 135.3 | -9.1 | 0.289 |
| 4-4170 | 4-4430 | 0.764 | 19.8 | 7.3 | -0.85 | 1.163 | 50.4 | 0.690 | 1.518 | 106.9 | 175.6 | --- | --- | -7.40 | 0.355 | 99.6 | 132.6 | -9.6 | 0.271 |
| 4-4170 | 4-4450 | 0.745 | 20.3 | 8.3 | -0.22 | 1.162 | 51.5 | 0.678 | 1.515 | 105.1 | 178.4 | --- | --- | -7.19 | 0.357 | 93.3 | 130.1 | -10.0 | 0.258 |
| 4-4170 | 4-4470 | 0.727 | 20.9 | 9.3 | 0.38 | 1.163 | 52.6 | 0.666 | 1.519 | 103.1 | 181.1 | --- | 2.531 | -7.04 | 0.363 | 87.8 | 128.0 | -10.3 | 0.249 |
| 4-4170 | 4-4490 | 0.709 | 21.6 | 10.4 | 0.96 | 1.164 | 53.7 | 0.656 | 1.527 | 101.0 | 183.6 | --- | 2.528 | -6.95 | 0.373 | 83.1 | 126.4 | -10.6 | 0.244 |
| 4-4170 | 4-4510 | 0.692 | 22.2 | 11.6 | 1.54 | 1.166 | 54.8 | 0.645 | 1.538 | 98.7 | 186.1 | --- | 2.531 | -6.90 | 0.385 | 79.2 | 125.4 | -10.8 | 0.242 |
| 4-4170 | 4-4530 | 0.674 | 22.9 | 12.9 | 2.12 | 1.169 | 55.8 | 0.635 | 1.552 | 96.3 | 188.5 | --- | 2.538 | -6.89 | 0.398 | 75.8 | 124.9 | -11.1 | 0.242 |
| 4-4170 | 4-4550 | 0.657 | 23.7 | 14.2 | 2.71 | 1.172 | 56.9 | 0.626 | 1.568 | 93.7 | 190.8 | --- | 2.549 | -6.94 | 0.413 | 73.1 | 125.0 | -11.3 | 0.243 |
| 4-4170 | 4-4570 | 0.640 | 24.4 | 15.7 | 3.32 | 1.175 | 58.1 | 0.616 | 1.585 | 91.1 | 193.1 | --- | 2.562 | -7.04 | 0.427 | 70.8 | 125.6 | -11.6 | 0.245 |
| 4-4170 | 4-4590 | 0.623 | 25.1 | 17.4 | 3.97 | 1.178 | 59.2 | 0.607 | 1.603 | 88.4 | 195.3 | --- | 2.576 | -7.20 | 0.442 | 68.8 | 126.6 | -12.0 | 0.249 |
| 4-4170 | 4-4610 | 0.607 | 25.9 | 19.2 | 4.66 | 1.181 | 60.3 | 0.598 | 1.622 | 85.5 | 197.6 | --- | 2.592 | -7.44 | 0.457 | 67.2 | 128.2 | -12.4 | 0.253 |
| 4-4170 | 4-4630 | 0.590 | 26.5 | 21.2 | 5.41 | 1.184 | 61.5 | 0.590 | 1.641 | 82.6 | 199.8 | --- | 2.609 | -7.75 | 0.472 | 65.8 | 130.1 | -13.0 | 0.258 |
| 4-4170 | 4-4650 | 0.575 | 27.1 | 23.5 | 6.25 | 1.187 | 62.6 | 0.581 | 1.661 | 79.6 | 202.0 | --- | 2.626 | -8.17 | 0.486 | 64.7 | 132.4 | -13.7 | 0.263 |
| 4-4170 | 4-4670 | 0.560 | 27.6 | 26.2 | 7.21 | 1.190 | 63.8 | 0.573 | 1.680 | 76.5 | 204.2 | --- | 2.644 | -8.72 | 0.500 | 63.8 | 135.1 | -14.6 | 0.269 |
| 4-4170 | 4-4690 | 0.546 | 27.8 | 29.3 | 8.33 | 1.193 | 65.0 | 0.565 | 1.701 | 73.3 | 206.3 | --- | 2.662 | -9.45 | 0.514 | 63.0 | 138.1 | -15.8 | 0.276 |
| 4-4170 | 4-4710 | 0.536 | 27.6 | 32.9 | 9.70 | 1.195 | 66.2 | 0.558 | 1.721 | 70.0 | 208.5 | --- | 2.681 | -10.43 | 0.528 | 62.4 | 141.5 | -17.3 | 0.285 |
| 4-4170 | 4-4730 | 0.529 | 26.8 | 37.4 | 11.43 | 1.198 | 67.5 | 0.551 | 1.741 | 66.6 | 210.6 | --- | 2.700 | -11.78 | 0.541 | 61.9 | 145.3 | -19.3 | 0.295 |
| 4-4170 | 4-4750 | 0.531 | 24.6 | 42.8 | 13.74 | 1.201 | 68.7 | 0.544 | 1.761 | 63.1 | 212.7 | --- | 2.719 | -13.71 | 0.554 | 61.5 | 149.5 | -22.0 | 0.309 |
| 4-4170 | 4-4770 | 0.547 | 19.8 | 49.2 | 17.03 | 1.204 | 70.0 | 0.538 | 1.781 | 59.6 | 214.8 | --- | 2.739 | -16.63 | 0.566 | 61.2 | 154.4 | -25.6 | 0.328 |
| 4-4170 | 4-4790 | 0.593 | 9.0 | 56.1 | 22.18 | 1.206 | 71.2 | 0.532 | 1.801 | 56.0 | 216.8 | --- | 2.760 | -21.42 | 0.578 | 60.9 | 160.4 | -30.7 | 0.362 |
| 4-4170 | 4-4810 | 0.712 | 346.0 | 60.2 | 31.44 | 1.209 | 72.4 | 0.528 | 1.821 | 52.5 | 218.8 | --- | 2.782 | -30.31 | 0.589 | 60.7 | 169.2 | -37.2 | 0.428 |
| 4-4180 | 4-4320 | 1.061 | 22.8 | 4.7 | -6.72 | 1.229 | 35.5 | 0.864 | 1.977 | 124.9 | 158.7 | --- | --- | -11.67 | 0.521 | 148.1 | 142.8 | -5.8 | 0.552 |
| 4-4180 | 4-4340 | 1.007 | 22.6 | 5.4 | -5.23 | 1.197 | 37.5 | 0.834 | 1.712 | 124.6 | 162.9 | --- | --- | -10.47 | 0.440 | 140.3 | 140.8 | -6.2 | 0.471 |
| 4-4180 | 4-4360 | 0.965 | 22.7 | 6.2 | -4.01 | 1.177 | 39.2 | 0.810 | 1.585 | 123.8 | 166.5 | --- | --- | -9.54 | 0.384 | 131.6 | 138.4 | -6.7 | 0.411 |
| 4-4180 | 4-4380 | 0.930 | 23.0 | 7.0 | -2.98 | 1.165 | 40.8 | 0.790 | 1.519 | 122.5 | 169.8 | --- | --- | -8.81 | 0.348 | 122.2 | 135.9 | -7.1 | 0.367 |
| 4-4180 | 4-4400 | 0.901 | 23.4 | 7.8 | -2.08 | 1.159 | 42.3 | 0.772 | 1.485 | 120.8 | 172.7 | --- | --- | -8.23 | 0.328 | 112.8 | 133.3 | -7.4 | 0.334 |
| 4-4180 | 4-4420 | 0.875 | 24.0 | 8.7 | -1.29 | 1.155 | 43.8 | 0.756 | 1.469 | 119.0 | 175.4 | --- | --- | -7.76 | 0.320 | 103.9 | 130.8 | -7.8 | 0.311 |
| 4-4180 | 4-4440 | 0.850 | 24.7 | 9.7 | -0.57 | 1.155 | 45.2 | 0.741 | 1.464 | 116.9 | 177.9 | --- | --- | -7.39 | 0.321 | 96.0 | 128.5 | -8.0 | 0.294 |
| 4-4180 | 4-4460 | 0.828 | 25.4 | 10.6 | 0.09 | 1.155 | 46.5 | 0.727 | 1.468 | 114.7 | 180.3 | --- | 2.535 | -7.10 | 0.328 | 89.1 | 126.6 | -8.2 | 0.282 |
| 4-4180 | 4-4480 | 0.806 | 26.2 | 11.6 | 0.70 | 1.157 | 47.8 | 0.714 | 1.476 | 112.3 | 182.6 | --- | 2.531 | -6.86 | 0.339 | 83.4 | 125.1 | -8.4 | 0.275 |
| 4-4180 | 4-4500 | 0.785 | 27.0 | 12.7 | 1.29 | 1.159 | 49.1 | 0.702 | 1.489 | 109.8 | 184.9 | --- | 2.534 | -6.69 | 0.353 | 78.7 | 124.2 | -8.6 | 0.270 |
| 4-4180 | 4-4520 | 0.765 | 27.8 | 13.8 | 1.86 | 1.162 | 50.4 | 0.689 | 1.504 | 107.3 | 187.1 | --- | 2.541 | -6.57 | 0.368 | 74.8 | 123.8 | -8.7 | 0.268 |
| 4-4180 | 4-4540 | 0.745 | 28.7 | 14.9 | 2.42 | 1.165 | 51.7 | 0.678 | 1.521 | 104.6 | 189.3 | --- | 2.552 | -6.49 | 0.385 | 71.7 | 123.9 | -8.9 | 0.268 |
| 4-4180 | 4-4560 | 0.725 | 29.6 | 16.2 | 2.97 | 1.169 | 52.9 | 0.666 | 1.540 | 101.9 | 191.4 | --- | 2.565 | -6.46 | 0.401 | 69.1 | 124.5 | -9.0 | 0.269 |
| 4-4180 | 4-4580 | 0.706 | 30.5 | 17.5 | 3.54 | 1.172 | 54.2 | 0.655 | 1.559 | 99.1 | 193.6 | --- | 2.581 | -6.48 | 0.418 | 67.0 | 125.5 | -9.2 | 0.271 |
| 4-4180 | 4-4600 | 0.686 | 31.4 | 18.9 | 4.12 | 1.176 | 55.5 | 0.644 | 1.579 | 96.1 | 195.7 | --- | 2.597 | -6.55 | 0.435 | 65.3 | 127.0 | -9.5 | 0.273 |
| 4-4180 | 4-4620 | 0.667 | 32.3 | 20.5 | 4.72 | 1.179 | 56.7 | 0.634 | 1.600 | 93.2 | 197.8 | --- | 2.615 | -6.68 | 0.451 | 63.9 | 128.9 | -9.8 | 0.276 |
| 4-4180 | 4-4640 | 0.648 | 33.2 | 22.2 | 5.37 | 1.183 | 58.0 | 0.623 | 1.622 | 90.1 | 199.9 | --- | 2.633 | -6.87 | 0.467 | 62.8 | 131.1 | -10.2 | 0.280 |
| 4-4180 | 4-4660 | 0.629 | 34.0 | 24.1 | 6.07 | 1.186 | 59.3 | 0.613 | 1.643 | 86.9 | 202.0 | --- | 2.651 | -7.14 | 0.483 | 61.9 | 133.7 | -10.7 | 0.284 |
| 4-4180 | 4-4680 | 0.611 | 34.9 | 26.3 | 6.84 | 1.190 | 60.6 | 0.604 | 1.665 | 83.7 | 204.2 | --- | 2.670 | -7.50 | 0.498 | 61.2 | 136.5 | -11.4 | 0.289 |
| 4-4180 | 4-4700 | 0.594 | 35.6 | 28.7 | 7.72 | 1.193 | 61.9 | 0.594 | 1.687 | 80.4 | 206.3 | --- | 2.689 | -7.99 | 0.513 | 60.6 | 139.7 | -12.2 | 0.294 |
| 4-4180 | 4-4720 | 0.578 | 36.1 | 31.6 | 8.76 | 1.196 | 63.3 | 0.585 | 1.708 | 77.0 | 208.4 | --- | 2.708 | -8.63 | 0.528 | 60.2 | 143.1 | -13.2 | 0.300 |
| 4-4180 | 4-4740 | 0.565 | 36.3 | 35.0 | 10.00 | 1.199 | 64.6 | 0.576 | 1.730 | 73.4 | 210.5 | --- | 2.727 | -9.50 | 0.541 | 59.9 | 146.9 | -14.6 | 0.307 |
| 4-4180 | 4-4760 | 0.555 | 36.0 | 39.1 | 11.57 | 1.202 | 66.0 | 0.568 | 1.752 | 69.8 | 212.5 | --- | 2.747 | -10.70 | 0.555 | 59.6 | 150.9 | -16.3 | 0.316 |
| 4-4180 | 4-4780 | 0.551 | 34.7 | 44.1 | 13.65 | 1.205 | 67.3 | 0.560 | 1.773 | 66.1 | 214.6 | --- | 2.766 | -12.42 | 0.567 | 59.5 | 155.4 | -18.8 | 0.327 |
| 4-4180 | 4-4800 | 0.560 | 31.2 | 50.3 | 16.60 | 1.208 | 68.7 | 0.553 | 1.795 | 62.4 | 216.6 | --- | 2.786 | -15.01 | 0.579 | 59.4 | 160.4 | -22.1 | 0.343 |
| 4-4180 | 4-4820 | 0.595 | 22.3 | 57.3 | 21.19 | 1.210 | 70.1 | 0.546 | 1.816 | 58.5 | 218.6 | --- | 2.807 | -19.25 | 0.590 | 59.3 | 166.3 | -26.9 | 0.370 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4420 | 4-4640 | 0.777 | 98.6 | 15.1 | -6.44 | 1.245 | 128.1 | 0.765 | 2.394 | 268.2 | 499.9 | 0.562 | --- | -1.05 | 0.846 | 139.9 | 233.8 | -0.7 | 0.594 |
| 4-4420 | 4-4660 | 0.715 | 98.4 | 14.2 | -6.55 | 1.209 | 125.7 | 0.704 | 1.980 | 268.5 | 505.4 | 0.585 | --- | -0.98 | 0.580 | 133.6 | 235.1 | -0.8 | 0.509 |
| 4-4420 | 4-4680 | 0.668 | 98.3 | 13.4 | -6.65 | 1.183 | 123.7 | 0.658 | 1.763 | 268.6 | 511.0 | 0.604 | --- | -0.93 | 0.531 | 126.9 | 235.7 | -0.9 | 0.439 |
| 4-4420 | 4-4700 | 0.633 | 98.2 | 12.7 | -6.75 | 1.164 | 122.2 | 0.622 | 1.635 | 268.7 | 516.6 | 0.618 | --- | -0.89 | 0.495 | 119.9 | 235.4 | -1.0 | 0.380 |
| 4-4420 | 4-4720 | 0.608 | 98.2 | 12.1 | -6.84 | 1.151 | 121.1 | 0.596 | 1.554 | 268.7 | 522.1 | 0.628 | --- | -0.86 | 0.469 | 112.9 | 234.0 | -1.1 | 0.332 |
| 4-4420 | 4-4740 | 0.591 | 98.3 | 11.6 | -6.93 | 1.141 | 120.4 | 0.578 | 1.502 | 268.4 | 527.5 | 0.634 | --- | -0.84 | 0.453 | 106.0 | 231.4 | -1.2 | 0.294 |
| 4-4420 | 4-4760 | 0.582 | 98.6 | 11.3 | -7.01 | 1.134 | 120.1 | 0.567 | 1.468 | 267.9 | 532.8 | 0.635 | --- | -0.83 | 0.444 | 99.3 | 227.5 | -1.4 | 0.266 |
| 4-4420 | 4-4780 | 0.581 | 99.0 | 11.2 | -7.10 | 1.129 | 120.1 | 0.564 | 1.446 | 267.0 | 537.8 | 0.631 | --- | -0.82 | 0.440 | 92.9 | 222.4 | -1.4 | 0.250 |
| 4-4420 | 4-4800 | 0.587 | 99.7 | 11.2 | -7.18 | 1.127 | 120.5 | 0.566 | 1.432 | 265.7 | 542.4 | 0.622 | 2.243 | -0.83 | 0.441 | 86.9 | 216.9 | -1.5 | 0.244 |
| 4-4420 | 4-4820 | 0.600 | 100.6 | 11.4 | -7.27 | 1.125 | 121.3 | 0.575 | 1.425 | 263.9 | 546.7 | 0.606 | 2.245 | -0.84 | 0.445 | 81.1 | 211.9 | -1.5 | 0.250 |
| 4-4420 | 4-4840 | 0.620 | 101.7 | 11.7 | -7.37 | 1.125 | 122.5 | 0.589 | 1.423 | 261.6 | 550.5 | 0.585 | 2.262 | -0.87 | 0.450 | 75.7 | 208.0 | -1.4 | 0.266 |
| 4-4420 | 4-4860 | 0.648 | 103.2 | 12.1 | -7.47 | 1.125 | 124.2 | 0.610 | 1.425 | 258.7 | 553.8 | 0.556 | 2.294 | -0.91 | 0.458 | 70.4 | 205.8 | -1.3 | 0.291 |
| 4-4420 | 4-4880 | 0.685 | 105.0 | 12.6 | -7.59 | 1.126 | 126.4 | 0.637 | 1.430 | 255.0 | 556.5 | 0.519 | 2.340 | -0.96 | 0.466 | 65.1 | 205.3 | -1.3 | 0.323 |
| 4-4420 | 4-4900 | 0.732 | 107.2 | 13.2 | -7.72 | 1.128 | 129.1 | 0.670 | 1.437 | 250.7 | 558.5 | 0.474 | 2.401 | -1.04 | 0.474 | 59.7 | 206.3 | -1.2 | 0.363 |
| 4-4420 | 4-4920 | 0.789 | 109.7 | 13.8 | -7.88 | 1.130 | 132.5 | 0.710 | 1.447 | 245.5 | 559.7 | 0.419 | 2.475 | -1.15 | 0.483 | 54.1 | 208.8 | -1.1 | 0.410 |
| 4-4420 | 4-4940 | 0.859 | 112.7 | 14.4 | -8.09 | 1.132 | 136.6 | 0.756 | 1.459 | 239.3 | 560.0 | 0.355 | 2.562 | -1.30 | 0.491 | 48.2 | 212.6 | -1.0 | 0.464 |
| 4-4420 | 4-4960 | 0.942 | 116.2 | 14.9 | -8.36 | 1.135 | 141.6 | 0.807 | 1.473 | 232.1 | 559.3 | 0.284 | 2.662 | -1.52 | 0.500 | 41.7 | 217.5 | -1.0 | 0.525 |
| 4-4420 | 4-4980 | 1.038 | 120.2 | 15.3 | -8.75 | 1.138 | 147.5 | 0.861 | 1.489 | 223.9 | 567.6 | 0.207 | 2.772 | -1.85 | 0.508 | 34.6 | 223.4 | -0.9 | 0.593 |
| 4-4430 | 4-4650 | 0.746 | 105.9 | 12.4 | -7.48 | 1.249 | 126.1 | 0.756 | 2.459 | 272.7 | 497.6 | 0.600 | --- | 0.51 | 0.657 | 139.1 | 237.6 | 0.4 | 0.593 |
| 4-4430 | 4-4670 | 0.685 | 105.7 | 11.6 | -7.42 | 1.214 | 123.7 | 0.692 | 2.022 | 273.0 | 503.3 | 0.623 | --- | 0.47 | 0.592 | 132.9 | 239.1 | 0.4 | 0.508 |
| 4-4430 | 4-4690 | 0.637 | 105.4 | 10.9 | -7.37 | 1.188 | 121.7 | 0.642 | 1.795 | 273.3 | 509.0 | 0.642 | --- | 0.44 | 0.544 | 126.4 | 239.9 | 0.4 | 0.437 |
| 4-4430 | 4-4710 | 0.601 | 105.3 | 10.3 | -7.32 | 1.169 | 120.2 | 0.605 | 1.662 | 273.5 | 514.7 | 0.657 | --- | 0.41 | 0.508 | 119.7 | 239.8 | 0.5 | 0.378 |
| 4-4430 | 4-4730 | 0.574 | 105.2 | 9.8 | -7.28 | 1.155 | 119.1 | 0.577 | 1.578 | 273.6 | 520.4 | 0.668 | --- | 0.39 | 0.483 | 113.0 | 238.8 | 0.5 | 0.329 |
| 4-4430 | 4-4750 | 0.556 | 105.2 | 9.4 | -7.24 | 1.145 | 118.3 | 0.557 | 1.523 | 273.4 | 526.0 | 0.675 | --- | 0.38 | 0.467 | 106.4 | 236.5 | 0.6 | 0.290 |
| 4-4430 | 4-4770 | 0.546 | 105.4 | 9.3 | -7.20 | 1.138 | 117.9 | 0.545 | 1.488 | 273.0 | 531.4 | 0.677 | --- | 0.37 | 0.458 | 100.1 | 232.9 | 0.6 | 0.261 |
| 4-4430 | 4-4790 | 0.542 | 105.7 | 9.3 | -7.16 | 1.133 | 117.8 | 0.539 | 1.464 | 272.3 | 536.5 | 0.674 | --- | 0.36 | 0.454 | 94.1 | 228.0 | 0.7 | 0.242 |
| 4-4430 | 4-4810 | 0.546 | 106.3 | 9.4 | -7.12 | 1.130 | 118.1 | 0.540 | 1.450 | 271.1 | 541.4 | 0.667 | 2.233 | 0.36 | 0.454 | 88.4 | 222.6 | 0.7 | 0.234 |
| 4-4430 | 4-4830 | 0.555 | 107.2 | 9.7 | -7.08 | 1.129 | 118.8 | 0.546 | 1.442 | 269.5 | 545.9 | 0.654 | 2.230 | 0.36 | 0.457 | 83.0 | 217.4 | 0.7 | 0.237 |
| 4-4430 | 4-4850 | 0.572 | 108.3 | 10.2 | -7.04 | 1.128 | 119.8 | 0.559 | 1.439 | 267.3 | 549.9 | 0.635 | 2.243 | 0.37 | 0.462 | 77.9 | 213.2 | 0.7 | 0.250 |
| 4-4430 | 4-4870 | 0.596 | 109.7 | 10.7 | -7.00 | 1.128 | 121.2 | 0.576 | 1.440 | 264.6 | 553.5 | 0.610 | 2.271 | 0.38 | 0.469 | 73.0 | 210.5 | 0.6 | 0.271 |
| 4-4430 | 4-4890 | 0.628 | 111.4 | 11.4 | -6.95 | 1.129 | 123.1 | 0.600 | 1.445 | 261.3 | 556.5 | 0.578 | 2.311 | 0.40 | 0.476 | 68.2 | 209.5 | 0.6 | 0.300 |
| 4-4430 | 4-4910 | 0.668 | 113.4 | 12.0 | -6.90 | 1.131 | 125.5 | 0.630 | 1.451 | 257.3 | 558.8 | 0.537 | 2.365 | 0.42 | 0.483 | 63.3 | 210.1 | 0.5 | 0.335 |
| 4-4430 | 4-4930 | 0.718 | 115.9 | 12.7 | -6.84 | 1.132 | 128.5 | 0.666 | 1.460 | 252.5 | 560.5 | 0.488 | 2.433 | 0.46 | 0.491 | 58.2 | 212.1 | 0.5 | 0.377 |
| 4-4430 | 4-4950 | 0.779 | 118.7 | 13.4 | -6.77 | 1.135 | 132.1 | 0.708 | 1.471 | 246.8 | 561.3 | 0.429 | 2.513 | 0.50 | 0.498 | 52.9 | 215.4 | 0.5 | 0.426 |
| 4-4430 | 4-4970 | 0.852 | 122.0 | 13.9 | -6.68 | 1.137 | 136.4 | 0.756 | 1.484 | 240.3 | 561.3 | 0.362 | 2.607 | 0.57 | 0.505 | 47.1 | 219.8 | 0.4 | 0.480 |
| 4-4430 | 4-4990 | 0.939 | 125.7 | 14.3 | -6.56 | 1.140 | 141.6 | 0.809 | 1.500 | 232.7 | 560.2 | 0.287 | 2.712 | 0.67 | 0.512 | 40.8 | 225.2 | 0.4 | 0.542 |
| 4-4430 | 4-5010 | 1.038 | 129.9 | 14.5 | -6.39 | 1.144 | 147.7 | 0.863 | 1.517 | 224.1 | 558.1 | 0.207 | 2.827 | 0.82 | 0.519 | 33.8 | 231.5 | 0.4 | 0.609 |
| 4-4440 | 4-4660 | 0.717 | 112.9 | 8.6 | -8.92 | 1.253 | 124.1 | 0.746 | 2.513 | 277.3 | 495.4 | 0.637 | --- | 2.48 | 0.666 | 138.2 | 241.3 | 1.9 | 0.590 |
| 4-4440 | 4-4680 | 0.655 | 112.6 | 8.0 | -8.58 | 1.218 | 121.7 | 0.679 | 2.059 | 277.7 | 501.2 | 0.660 | --- | 2.23 | 0.803 | 132.1 | 242.9 | 2.0 | 0.505 |
| 4-4440 | 4-4700 | 0.607 | 112.2 | 7.4 | -8.30 | 1.192 | 119.7 | 0.628 | 1.824 | 278.1 | 507.0 | 0.679 | --- | 2.03 | 0.555 | 125.8 | 243.8 | 2.1 | 0.435 |
| 4-4440 | 4-4720 | 0.570 | 112.0 | 7.0 | -8.06 | 1.173 | 118.2 | 0.588 | 1.686 | 278.4 | 512.9 | 0.695 | --- | 1.88 | 0.520 | 119.3 | 244.0 | 2.3 | 0.375 |
| 4-4440 | 4-4740 | 0.542 | 111.8 | 6.7 | -7.84 | 1.159 | 117.0 | 0.559 | 1.600 | 278.6 | 518.8 | 0.706 | --- | 1.77 | 0.496 | 112.9 | 243.2 | 2.5 | 0.326 |
| 4-4440 | 4-4760 | 0.523 | 111.7 | 6.6 | -7.65 | 1.149 | 116.2 | 0.538 | 1.543 | 278.5 | 524.5 | 0.714 | --- | 1.68 | 0.480 | 106.6 | 241.2 | 2.7 | 0.287 |
| 4-4440 | 4-4780 | 0.511 | 111.9 | 6.6 | -7.47 | 1.142 | 115.8 | 0.524 | 1.506 | 278.2 | 530.1 | 0.717 | --- | 1.61 | 0.471 | 100.6 | 237.8 | 2.9 | 0.257 |
| 4-4440 | 4-4800 | 0.506 | 112.2 | 6.8 | -7.30 | 1.137 | 115.6 | 0.517 | 1.482 | 277.6 | 535.4 | 0.716 | --- | 1.57 | 0.467 | 94.9 | 233.2 | 3.1 | 0.236 |
| 4-4440 | 4-4820 | 0.507 | 112.7 | 7.2 | -7.13 | 1.134 | 115.8 | 0.516 | 1.467 | 276.6 | 540.4 | 0.710 | 2.224 | 1.54 | 0.466 | 89.6 | 227.9 | 3.2 | 0.226 |
| 4-4440 | 4-4840 | 0.515 | 113.5 | 7.7 | -6.97 | 1.133 | 116.4 | 0.521 | 1.459 | 275.1 | 545.1 | 0.699 | 2.218 | 1.53 | 0.469 | 84.5 | 222.5 | 3.2 | 0.227 |
| 4-4440 | 4-4860 | 0.528 | 114.6 | 8.3 | -6.80 | 1.132 | 117.3 | 0.531 | 1.455 | 273.1 | 549.3 | 0.683 | 2.228 | 1.54 | 0.473 | 79.8 | 218.1 | 3.0 | 0.237 |
| 4-4440 | 4-4880 | 0.548 | 116.0 | 9.0 | -6.63 | 1.132 | 118.5 | 0.546 | 1.456 | 270.6 | 553.1 | 0.661 | 2.251 | 1.57 | 0.479 | 75.2 | 215.1 | 2.9 | 0.255 |
| 4-4440 | 4-4900 | 0.576 | 117.7 | 9.8 | -6.44 | 1.133 | 120.2 | 0.567 | 1.459 | 267.4 | 556.3 | 0.632 | 2.287 | 1.62 | 0.485 | 70.8 | 213.7 | 2.6 | 0.280 |
| 4-4440 | 4-4920 | 0.611 | 119.7 | 10.6 | -6.24 | 1.134 | 122.3 | 0.593 | 1.466 | 263.7 | 559.0 | 0.596 | 2.335 | 1.69 | 0.492 | 66.3 | 214.0 | 2.4 | 0.312 |
| 4-4440 | 4-4940 | 0.655 | 122.1 | 11.4 | -6.02 | 1.136 | 124.8 | 0.626 | 1.474 | 259.2 | 561.0 | 0.652 | 2.398 | 1.80 | 0.498 | 61.7 | 215.6 | 2.3 | 0.350 |
| 4-4440 | 4-4960 | 0.708 | 124.8 | 12.1 | -5.76 | 1.138 | 128.0 | 0.664 | 1.485 | 254.0 | 562.2 | 0.499 | 2.470 | 1.95 | 0.505 | 56.9 | 218.5 | 2.1 | 0.393 |
| 4-4440 | 4-4980 | 0.772 | 127.9 | 12.7 | -5.45 | 1.140 | 131.8 | 0.708 | 1.497 | 248.0 | 562.7 | 0.437 | 2.557 | 2.16 | 0.511 | 51.7 | 222.5 | 2.0 | 0.442 |
| 4-4440 | 4-5000 | 0.849 | 131.4 | 13.2 | -5.06 | 1.143 | 136.3 | 0.758 | 1.511 | 241.0 | 562.3 | 0.366 | 2.656 | 2.45 | 0.517 | 46.1 | 227.4 | 1.8 | 0.497 |
| 4-4440 | 4-5020 | 0.938 | 135.2 | 13.4 | -4.54 | 1.146 | 141.7 | 0.811 | 1.527 | 233.2 | 560.9 | 0.288 | 2.766 | 2.87 | 0.523 | 39.9 | 233.2 | 1.7 | 0.558 |
| 4-4440 | 4-5040 | 1.039 | 139.5 | 13.4 | -3.79 | 1.149 | 147.9 | 0.866 | 1.545 | 224.3 | 558.5 | 0.207 | 2.883 | 3.53 | 0.528 | 33.0 | 239.9 | 1.6 | 0.624 |
| 4-4450 | 4-4670 | 0.692 | 119.5 | 3.3 | -11.00 | 1.256 | 122.0 | 0.736 | 2.554 | 282.0 | 493.3 | 0.674 | --- | 5.12 | 0.674 | 137.3 | 244.7 | 4.0 | 0.586 |
| 4-4450 | 4-4690 | 0.628 | 119.0 | 3.0 | -10.19 | 1.221 | 119.6 | 0.666 | 2.088 | 282.5 | 499.3 | 0.697 | --- | 4.45 | 0.611 | 131.3 | 246.4 | 4.1 | 0.502 |
| 4-4450 | 4-4710 | 0.579 | 118.6 | 2.9 | -9.55 | 1.195 | 117.7 | 0.612 | 1.848 | 283.0 | 505.3 | 0.716 | --- | 3.96 | 0.565 | 125.1 | 247.6 | 4.2 | 0.432 |
| 4-4450 | 4-4730 | 0.541 | 118.2 | 2.7 | -9.03 | 1.177 | 116.1 | 0.572 | 1.707 | 283.4 | 511.3 | 0.732 | --- | 3.59 | 0.531 | 118.8 | 247.9 | 4.5 | 0.372 |
| 4-4450 | 4-4750 | 0.513 | 118.0 | 2.8 | -8.58 | 1.163 | 115.0 | 0.541 | 1.619 | 283.7 | 517.3 | 0.743 | --- | 3.31 | 0.507 | 112.6 | 247.3 | 4.8 | 0.323 |
| 4-4450 | 4-4770 | 0.492 | 117.9 | 2.9 | -8.19 | 1.153 | 114.2 | 0.519 | 1.561 | 283.8 | 523.2 | 0.751 | --- | 3.09 | 0.492 | 106.6 | 245.5 | 5.1 | 0.283 |
| 4-4450 | 4-4790 | 0.479 | 117.9 | 3.2 | -7.84 | 1.146 | 113.7 | 0.505 | 1.523 | 283.6 | 528.9 | 0.755 | --- | 2.93 | 0.482 | 100.9 | 242.4 | 5.5 | 0.253 |
| 4-4450 | 4-4810 | 0.472 | 118.2 | 3.7 | -7.52 | 1.141 | 113.5 | 0.497 | 1.499 | 283.0 | 534.4 | 0.754 | --- | 2.81 | 0.478 | 95.5 | 238.0 | 5.8 | 0.231 |
| 4-4450 | 4-4830 | 0.471 | 118.8 | 4.4 | -7.21 | 1.138 | 113.7 | 0.494 | 1.483 | 282.1 | 539.5 | 0.750 | --- | 2.73 | 0.478 | 90.4 | 232.7 | 5.9 | 0.220 |
| 4-4450 | 4-4850 | 0.476 | 119.6 | 5.2 | -6.92 | 1.137 | 114.1 | 0.498 | 1.474 | 280.7 | 544.3 | 0.741 | 2.208 | 2.68 | 0.480 | 85.7 | 227.4 | 5.9 | 0.219 |
| 4-4450 | 4-4870 | 0.487 | 120.7 | 6.0 | -6.62 | 1.136 | 114.9 | 0.506 | 1.471 | 278.9 | 548.7 | 0.727 | 2.215 | 2.66 | 0.484 | 81.3 | 222.8 | 5.6 | 0.226 |
| 4-4450 | 4-4890 | 0.504 | 122.1 | 7.0 | -6.33 | 1.136 | 116.0 | 0.519 | 1.471 | 276.5 | 552.7 | 0.707 | 2.235 | 2.68 | 0.489 | 77.0 | 219.5 | 5.3 | 0.242 |
| 4-4450 | 4-4910 | 0.528 | 123.8 | 8.0 | -6.02 | 1.137 | 117.4 | 0.537 | 1.474 | 273.5 | 556.1 | 0.682 | 2.267 | 2.73 | 0.494 | 72.9 | 217.9 | 4.9 | 0.265 |
| 4-4450 | 4-4930 | 0.559 | 125.8 | 8.9 | -5.70 | 1.138 | 119.3 | 0.561 | 1.480 | 269.9 | 559.0 | 0.650 | 2.311 | 2.82 | 0.500 | 68.8 | 217.8 | 4.5 | 0.293 |
| 4-4450 | 4-4950 | 0.597 | 128.2 | 9.8 | -5.35 | 1.139 | 121.6 | 0.590 | 1.488 | 265.8 | 561.2 | 0.611 | 2.366 | 2.95 | 0.506 | 64.6 | 219.2 | 4.1 | 0.327 |
| 4-4450 | 4-4970 | 0.644 | 130.9 | 10.6 | -4.95 | 1.141 | 124.4 | 0.624 | 1.498 | 260.9 | 562.9 | 0.563 | 2.433 | 3.14 | 0.512 | 60.3 | 221.8 | 3.8 | 0.366 |
| 4-4450 | 4-4990 | 0.701 | 133.8 | 11.3 | -4.50 | 1.144 | 127.7 | 0.664 | 1.510 | 255.3 | 563.8 | 0.507 | 2.513 | 3.40 | 0.517 | 55.7 | 225.4 | 3.6 | 0.409 |
| 4-4450 | 4-5010 | 0.768 | 137.2 | 11.8 | -3.95 | 1.146 | 131.7 | 0.710 | 1.523 | 248.9 | 563.9 | 0.442 | 2.605 | 3.77 | 0.522 | 50.7 | 230.0 | 3.3 | 0.458 |
| 4-4450 | 4-5030 | 0.847 | 140.8 | 12.1 | -3.27 | 1.149 | 136.3 | 0.760 | 1.539 | 241.7 | 563.2 | 0.369 | 2.708 | 4.28 | 0.527 | 45.2 | 235.3 | 3.1 | 0.513 |
| 4-4450 | 4-5050 | 0.939 | 144.8 | 12.1 | -2.36 | 1.152 | 141.7 | 0.814 | 1.556 | 233.6 | 561.5 | 0.289 | 2.822 | 5.02 | 0.531 | 39.1 | 241.5 | 2.9 | 0.573 |
| 4-4450 | 4-5070 | 1.042 | 149.2 | 11.9 | -1.07 | 1.155 | 148.0 | 0.868 | 1.574 | 224.6 | 558.9 | 0.207 | 2.942 | 6.16 | 0.535 | 32.4 | 248.4 | 2.8 | 0.637 |
| 4-4460 | 4-4680 | 0.677 | 125.6 | -4.6 | -14.22 | 1.259 | 119.9 | 0.724 | 2.580 | 286.8 | 491.5 | 0.711 | --- | 8.95 | 0.679 | 136.2 | 247.9 | 7.2 | 0.584 |
| 4-4460 | 4-4700 | 0.609 | 124.9 | -3.8 | -12.53 | 1.224 | 117.5 | 0.652 | 2.110 | 287.4 | 497.5 | 0.733 | --- | 7.44 | 0.618 | 130.3 | 249.7 | 7.0 | 0.499 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4460 | 4-4720 | 0.556 | 124.4 | -3.3 | -11.29 | 1.199 | 115.6 | 0.597 | 1.867 | 288.0 | 503.7 | 0.752 | --- | 6.40 | 0.573 | 124.3 | 251.0 | 7.1 | 0.429 |
| 4-4460 | 4-4740 | 0.516 | 123.9 | -2.8 | -10.33 | 1.180 | 114.1 | 0.555 | 1.725 | 288.6 | 509.9 | 0.767 | --- | 5.65 | 0.540 | 118.2 | 251.5 | 7.3 | 0.370 |
| 4-4460 | 4-4760 | 0.486 | 123.6 | -2.3 | -9.56 | 1.167 | 112.9 | 0.524 | 1.636 | 289.0 | 516.0 | 0.779 | --- | 5.09 | 0.517 | 112.2 | 251.0 | 7.6 | 0.320 |
| 4-4460 | 4-4780 | 0.464 | 123.4 | -1.6 | -8.91 | 1.157 | 112.1 | 0.501 | 1.577 | 289.2 | 522.1 | 0.787 | --- | 4.67 | 0.502 | 106.4 | 249.4 | 8.0 | 0.281 |
| 4-4460 | 4-4800 | 0.449 | 123.5 | -0.9 | -8.34 | 1.150 | 111.6 | 0.486 | 1.539 | 289.1 | 527.9 | 0.791 | --- | 4.35 | 0.493 | 101.0 | 246.5 | 8.5 | 0.250 |
| 4-4460 | 4-4820 | 0.440 | 123.8 | 0.0 | -7.83 | 1.146 | 111.4 | 0.478 | 1.514 | 288.6 | 533.5 | 0.791 | --- | 4.12 | 0.489 | 95.8 | 242.3 | 8.8 | 0.228 |
| 4-4460 | 4-4840 | 0.437 | 124.4 | 1.0 | -7.37 | 1.142 | 111.5 | 0.475 | 1.498 | 287.8 | 538.8 | 0.787 | --- | 3.94 | 0.488 | 91.1 | 237.1 | 9.0 | 0.215 |
| 4-4460 | 4-4860 | 0.441 | 125.2 | 2.2 | -6.93 | 1.141 | 111.9 | 0.477 | 1.489 | 286.5 | 543.7 | 0.780 | 2.199 | 3.82 | 0.490 | 86.6 | 231.8 | 8.8 | 0.212 |
| 4-4460 | 4-4880 | 0.449 | 126.4 | 3.4 | -6.51 | 1.140 | 112.6 | 0.483 | 1.486 | 284.7 | 548.2 | 0.767 | 2.204 | 3.75 | 0.493 | 82.4 | 227.1 | 8.4 | 0.218 |
| 4-4460 | 4-4900 | 0.464 | 127.9 | 4.6 | -6.09 | 1.140 | 113.6 | 0.495 | 1.486 | 282.4 | 552.3 | 0.750 | 2.221 | 3.73 | 0.498 | 78.5 | 223.7 | 7.9 | 0.232 |
| 4-4460 | 4-4920 | 0.484 | 129.7 | 5.8 | -5.68 | 1.141 | 114.9 | 0.511 | 1.489 | 279.6 | 555.9 | 0.728 | 2.250 | 3.75 | 0.503 | 74.6 | 221.9 | 7.2 | 0.252 |
| 4-4460 | 4-4940 | 0.511 | 131.8 | 7.0 | -5.24 | 1.142 | 116.6 | 0.532 | 1.495 | 276.2 | 558.9 | 0.700 | 2.290 | 3.82 | 0.508 | 70.9 | 221.6 | 6.6 | 0.278 |
| 4-4460 | 4-4960 | 0.545 | 134.2 | 8.1 | -4.79 | 1.143 | 118.6 | 0.558 | 1.503 | 272.2 | 561.4 | 0.685 | 2.341 | 3.95 | 0.513 | 67.1 | 222.8 | 6.1 | 0.308 |
| 4-4460 | 4-4980 | 0.587 | 136.9 | 9.0 | -4.29 | 1.145 | 121.1 | 0.588 | 1.513 | 267.6 | 563.3 | 0.623 | 2.402 | 4.14 | 0.518 | 63.1 | 225.1 | 5.6 | 0.343 |
| 4-4460 | 4-5000 | 0.637 | 139.9 | 9.8 | -3.74 | 1.147 | 124.0 | 0.625 | 1.524 | 262.3 | 564.5 | 0.572 | 2.476 | 4.40 | 0.523 | 59.0 | 228.5 | 5.2 | 0.382 |
| 4-4460 | 4-5020 | 0.697 | 143.1 | 10.3 | -3.10 | 1.150 | 127.5 | 0.666 | 1.537 | 256.4 | 565.1 | 0.513 | 2.560 | 4.77 | 0.527 | 54.6 | 232.7 | 4.8 | 0.426 |
| 4-4460 | 4-5040 | 0.767 | 146.6 | 10.6 | -2.33 | 1.152 | 131.6 | 0.713 | 1.551 | 249.7 | 564.9 | 0.446 | 2.656 | 5.29 | 0.530 | 49.7 | 237.7 | 4.5 | 0.474 |
| 4-4460 | 4-5060 | 0.848 | 150.4 | 10.7 | -1.38 | 1.155 | 136.3 | 0.763 | 1.567 | 242.3 | 563.8 | 0.371 | 2.763 | 6.00 | 0.534 | 44.4 | 243.4 | 4.2 | 0.527 |
| 4-4460 | 4-5080 | 0.940 | 154.4 | 10.5 | -0.12 | 1.158 | 141.8 | 0.817 | 1.585 | 234.0 | 562.0 | 0.290 | 2.879 | 7.03 | 0.537 | 38.5 | 249.9 | 4.0 | 0.585 |
| 4-4460 | 4-5100 | 1.044 | 158.7 | 10.0 | 1.66 | 1.162 | 148.0 | 0.870 | 1.604 | 225.0 | 559.2 | 0.209 | 3.000 | 8.59 | 0.540 | 32.0 | 256.9 | 3.8 | 0.647 |
| 4-4470 | 4-4690 | 0.691 | 131.3 | -16.6 | -19.84 | 1.261 | 117.7 | 0.712 | 2.589 | 291.6 | 489.8 | 0.746 | --- | 15.18 | 0.683 | 135.1 | 250.2 | 12.4 | 0.587 |
| 4-4470 | 4-4710 | 0.605 | 130.3 | -13.7 | -16.22 | 1.227 | 115.4 | 0.638 | 2.122 | 292.4 | 496.0 | 0.768 | --- | 11.80 | 0.623 | 129.3 | 252.5 | 11.4 | 0.499 |
| 4-4470 | 4-4730 | 0.543 | 129.5 | -11.6 | -13.85 | 1.202 | 113.5 | 0.582 | 1.880 | 293.2 | 502.3 | 0.787 | --- | 9.68 | 0.579 | 123.4 | 254.0 | 11.0 | 0.427 |
| 4-4470 | 4-4750 | 0.497 | 128.9 | -10.1 | -12.17 | 1.184 | 112.0 | 0.539 | 1.739 | 293.9 | 508.7 | 0.801 | --- | 8.24 | 0.547 | 117.4 | 254.7 | 10.9 | 0.368 |
| 4-4470 | 4-4770 | 0.463 | 128.5 | -8.7 | -10.89 | 1.170 | 110.9 | 0.507 | 1.649 | 294.5 | 515.0 | 0.813 | --- | 7.23 | 0.525 | 111.6 | 254.4 | 11.1 | 0.319 |
| 4-4470 | 4-4790 | 0.438 | 128.3 | -7.3 | -9.86 | 1.161 | 110.1 | 0.485 | 1.591 | 294.8 | 521.2 | 0.820 | --- | 6.48 | 0.511 | 106.1 | 252.9 | 11.5 | 0.278 |
| 4-4470 | 4-4810 | 0.421 | 128.4 | -5.9 | -9.01 | 1.154 | 109.6 | 0.469 | 1.553 | 294.8 | 527.2 | 0.825 | --- | 5.92 | 0.502 | 100.9 | 250.1 | 11.9 | 0.247 |
| 4-4470 | 4-4830 | 0.411 | 128.8 | -4.4 | -8.27 | 1.150 | 109.4 | 0.460 | 1.528 | 294.5 | 532.9 | 0.825 | --- | 5.50 | 0.498 | 96.0 | 246.0 | 12.2 | 0.225 |
| 4-4470 | 4-4850 | 0.406 | 129.4 | -2.9 | -7.61 | 1.147 | 109.5 | 0.456 | 1.512 | 293.7 | 538.3 | 0.822 | --- | 5.19 | 0.497 | 91.5 | 241.0 | 12.3 | 0.212 |
| 4-4470 | 4-4870 | 0.407 | 130.4 | -1.3 | -7.01 | 1.145 | 109.8 | 0.458 | 1.504 | 292.4 | 543.3 | 0.816 | 2.192 | 4.96 | 0.499 | 87.3 | 235.7 | 12.0 | 0.208 |
| 4-4470 | 4-4890 | 0.414 | 131.7 | 0.3 | -6.45 | 1.144 | 110.4 | 0.463 | 1.500 | 290.7 | 547.8 | 0.805 | 2.195 | 4.81 | 0.502 | 83.3 | 231.0 | 11.3 | 0.212 |
| 4-4470 | 4-4910 | 0.426 | 133.4 | 1.9 | -5.92 | 1.144 | 111.3 | 0.473 | 1.500 | 288.5 | 552.0 | 0.790 | 2.210 | 4.72 | 0.506 | 79.6 | 227.6 | 10.5 | 0.224 |
| 4-4470 | 4-4930 | 0.443 | 135.3 | 3.4 | -5.39 | 1.145 | 112.5 | 0.488 | 1.504 | 285.7 | 555.6 | 0.770 | 2.237 | 4.69 | 0.510 | 76.1 | 225.7 | 9.6 | 0.242 |
| 4-4470 | 4-4950 | 0.467 | 137.6 | 4.9 | -4.86 | 1.146 | 114.0 | 0.506 | 1.509 | 282.4 | 558.8 | 0.745 | 2.274 | 4.72 | 0.515 | 72.6 | 225.3 | 8.8 | 0.265 |
| 4-4470 | 4-4970 | 0.497 | 140.1 | 6.1 | -4.31 | 1.148 | 115.9 | 0.529 | 1.517 | 278.6 | 561.5 | 0.714 | 2.320 | 4.81 | 0.520 | 69.1 | 226.3 | 8.0 | 0.293 |
| 4-4470 | 4-4990 | 0.534 | 142.9 | 7.2 | -3.73 | 1.149 | 118.1 | 0.557 | 1.527 | 274.2 | 563.6 | 0.677 | 2.377 | 4.97 | 0.524 | 65.6 | 228.4 | 7.3 | 0.324 |
| 4-4470 | 4-5010 | 0.579 | 145.8 | 8.1 | -3.10 | 1.152 | 120.7 | 0.589 | 1.538 | 269.2 | 565.1 | 0.632 | 2.444 | 5.21 | 0.528 | 61.8 | 231.6 | 6.8 | 0.359 |
| 4-4470 | 4-5030 | 0.632 | 149.0 | 8.7 | -2.41 | 1.154 | 123.8 | 0.627 | 1.551 | 263.6 | 566.0 | 0.579 | 2.522 | 5.55 | 0.531 | 57.9 | 235.6 | 6.3 | 0.398 |
| 4-4470 | 4-5050 | 0.695 | 152.4 | 9.1 | -1.61 | 1.156 | 127.4 | 0.669 | 1.564 | 257.4 | 566.2 | 0.518 | 2.611 | 6.02 | 0.534 | 53.6 | 240.3 | 5.9 | 0.441 |
| 4-4470 | 4-5070 | 0.767 | 156.1 | 9.2 | -0.65 | 1.159 | 131.5 | 0.716 | 1.580 | 250.5 | 565.7 | 0.449 | 2.710 | 6.65 | 0.537 | 48.9 | 245.7 | 5.5 | 0.488 |
| 4-4470 | 4-5090 | 0.849 | 159.9 | 9.0 | 0.53 | 1.162 | 136.3 | 0.766 | 1.597 | 242.9 | 564.4 | 0.373 | 2.820 | 7.54 | 0.539 | 43.7 | 251.7 | 5.2 | 0.539 |
| 4-4470 | 4-5110 | 0.942 | 163.9 | 8.6 | 2.07 | 1.165 | 141.8 | 0.819 | 1.615 | 234.6 | 562.4 | 0.293 | 2.937 | 8.80 | 0.541 | 38.0 | 258.2 | 4.9 | 0.595 |
| 4-4480 | 4-4700 | 0.797 | 138.9 | -35.6 | -31.51 | 1.262 | 115.5 | 0.698 | 2.580 | 296.4 | 488.4 | 0.779 | --- | 27.51 | 0.885 | 134.0 | 249.8 | 21.5 | 0.620 |
| 4-4480 | 4-4720 | 0.644 | 135.5 | -28.1 | -22.76 | 1.229 | 113.2 | 0.623 | 2.125 | 297.6 | 494.7 | 0.802 | --- | 19.03 | 0.827 | 128.2 | 253.9 | 18.3 | 0.512 |
| 4-4480 | 4-4740 | 0.553 | 133.9 | -23.2 | -17.95 | 1.204 | 111.3 | 0.566 | 1.888 | 298.6 | 501.2 | 0.820 | --- | 14.50 | 0.584 | 122.4 | 256.2 | 16.6 | 0.433 |
| 4-4480 | 4-4760 | 0.492 | 133.1 | -19.7 | -14.90 | 1.187 | 109.9 | 0.523 | 1.748 | 299.5 | 507.8 | 0.834 | --- | 11.74 | 0.553 | 116.6 | 257.3 | 15.8 | 0.370 |
| 4-4480 | 4-4780 | 0.450 | 132.6 | -16.8 | -12.76 | 1.174 | 108.8 | 0.491 | 1.660 | 300.2 | 514.2 | 0.845 | --- | 9.91 | 0.532 | 111.0 | 257.2 | 15.6 | 0.319 |
| 4-4480 | 4-4800 | 0.419 | 132.4 | -14.3 | -11.17 | 1.165 | 108.0 | 0.468 | 1.603 | 300.7 | 520.5 | 0.852 | --- | 8.63 | 0.518 | 105.6 | 255.9 | 15.6 | 0.278 |
| 4-4480 | 4-4820 | 0.398 | 132.5 | -12.0 | -9.90 | 1.158 | 107.5 | 0.453 | 1.565 | 300.8 | 526.6 | 0.856 | --- | 7.70 | 0.510 | 100.6 | 253.2 | 15.8 | 0.247 |
| 4-4480 | 4-4840 | 0.384 | 133.0 | -9.7 | -8.86 | 1.154 | 107.3 | 0.444 | 1.541 | 300.5 | 532.5 | 0.857 | --- | 7.02 | 0.506 | 95.9 | 249.3 | 16.0 | 0.224 |
| 4-4480 | 4-4860 | 0.377 | 133.8 | -7.4 | -7.96 | 1.151 | 107.4 | 0.440 | 1.525 | 299.8 | 537.9 | 0.855 | --- | 6.50 | 0.506 | 91.7 | 244.4 | 15.8 | 0.210 |
| 4-4480 | 4-4880 | 0.376 | 135.0 | -5.2 | -7.18 | 1.149 | 107.7 | 0.440 | 1.517 | 298.6 | 543.0 | 0.849 | 2.185 | 6.12 | 0.507 | 87.7 | 239.2 | 15.3 | 0.205 |
| 4-4480 | 4-4900 | 0.380 | 136.5 | -3.1 | -6.46 | 1.149 | 108.3 | 0.445 | 1.514 | 296.9 | 547.6 | 0.839 | 2.188 | 5.85 | 0.510 | 84.0 | 234.6 | 14.4 | 0.208 |
| 4-4480 | 4-4920 | 0.390 | 138.4 | -1.0 | -5.79 | 1.149 | 109.1 | 0.454 | 1.514 | 294.7 | 551.8 | 0.826 | 2.202 | 5.66 | 0.513 | 80.5 | 231.1 | 13.2 | 0.219 |
| 4-4480 | 4-4940 | 0.405 | 140.6 | 0.9 | -5.15 | 1.150 | 110.3 | 0.467 | 1.518 | 291.9 | 555.5 | 0.809 | 2.227 | 5.56 | 0.518 | 77.2 | 229.2 | 12.0 | 0.235 |
| 4-4480 | 4-4960 | 0.426 | 143.1 | 2.6 | -4.52 | 1.151 | 111.6 | 0.484 | 1.524 | 288.7 | 558.7 | 0.786 | 2.261 | 5.52 | 0.522 | 74.0 | 228.8 | 10.9 | 0.256 |
| 4-4480 | 4-4980 | 0.453 | 145.8 | 4.1 | -3.89 | 1.152 | 113.3 | 0.504 | 1.531 | 285.0 | 561.5 | 0.759 | 2.304 | 5.56 | 0.526 | 70.8 | 229.7 | 9.9 | 0.280 |
| 4-4480 | 4-5000 | 0.487 | 148.7 | 5.3 | -3.24 | 1.154 | 115.3 | 0.529 | 1.541 | 280.7 | 563.7 | 0.726 | 2.357 | 5.67 | 0.530 | 67.6 | 231.7 | 9.0 | 0.309 |
| 4-4480 | 4-5020 | 0.527 | 151.7 | 6.3 | -2.56 | 1.156 | 117.7 | 0.558 | 1.552 | 276.0 | 565.4 | 0.686 | 2.419 | 5.86 | 0.533 | 64.2 | 234.7 | 8.3 | 0.340 |
| 4-4480 | 4-5040 | 0.574 | 155.0 | 7.0 | -1.83 | 1.158 | 120.4 | 0.592 | 1.565 | 270.7 | 566.6 | 0.639 | 2.490 | 6.14 | 0.536 | 60.7 | 238.5 | 7.7 | 0.375 |
| 4-4480 | 4-5060 | 0.630 | 158.4 | 7.4 | -1.02 | 1.161 | 123.6 | 0.630 | 1.578 | 264.8 | 567.1 | 0.584 | 2.572 | 6.54 | 0.538 | 56.8 | 243.0 | 7.1 | 0.413 |
| 4-4480 | 4-5080 | 0.694 | 161.9 | 7.6 | -0.08 | 1.163 | 127.3 | 0.672 | 1.593 | 258.4 | 567.1 | 0.522 | 2.664 | 7.08 | 0.540 | 52.7 | 248.1 | 6.7 | 0.455 |
| 4-4480 | 4-5100 | 0.768 | 165.5 | 7.4 | 1.02 | 1.166 | 131.5 | 0.719 | 1.609 | 251.4 | 566.3 | 0.453 | 2.766 | 7.82 | 0.541 | 48.1 | 253.8 | 6.3 | 0.500 |
| 4-4480 | 4-5120 | 0.851 | 169.3 | 7.0 | 2.38 | 1.169 | 136.2 | 0.768 | 1.627 | 243.7 | 564.9 | 0.377 | 2.877 | 8.83 | 0.543 | 43.1 | 259.9 | 6.0 | 0.549 |
| 4-4480 | 4-5140 | 0.944 | 173.3 | 6.4 | 4.13 | 1.172 | 141.6 | 0.819 | 1.646 | 235.5 | 562.7 | 0.297 | 2.994 | 10.25 | 0.544 | 37.6 | 266.6 | 5.6 | 0.601 |
| 4-4490 | 4-4730 | 0.811 | 144.1 | -48.9 | -36.68 | 1.230 | 111.1 | 0.607 | 2.117 | 302.6 | 493.8 | 0.832 | --- | 33.66 | 0.629 | 127.1 | 251.0 | 29.0 | 0.573 |
| 4-4490 | 4-4750 | 0.620 | 138.3 | -39.3 | -25.33 | 1.206 | 109.2 | 0.550 | 1.888 | 304.1 | 500.4 | 0.851 | --- | 22.62 | 0.588 | 121.3 | 256.5 | 24.9 | 0.458 |
| 4-4490 | 4-4770 | 0.517 | 136.3 | -32.5 | -19.30 | 1.189 | 107.7 | 0.507 | 1.753 | 305.3 | 507.1 | 0.865 | --- | 16.92 | 0.558 | 115.6 | 258.7 | 22.5 | 0.382 |
| 4-4490 | 4-4790 | 0.452 | 135.5 | -27.4 | -15.57 | 1.177 | 106.7 | 0.475 | 1.667 | 306.2 | 513.7 | 0.875 | --- | 13.53 | 0.538 | 110.1 | 259.2 | 21.3 | 0.325 |
| 4-4490 | 4-4810 | 0.410 | 135.3 | -23.1 | -13.02 | 1.168 | 105.9 | 0.453 | 1.612 | 306.8 | 520.2 | 0.882 | --- | 11.33 | 0.525 | 105.0 | 258.2 | 20.7 | 0.282 |
| 4-4490 | 4-4830 | 0.381 | 135.6 | -19.4 | -11.14 | 1.162 | 105.5 | 0.438 | 1.575 | 307.0 | 526.4 | 0.885 | --- | 9.81 | 0.517 | 100.2 | 255.7 | 20.4 | 0.248 |
| 4-4490 | 4-4850 | 0.362 | 136.2 | -16.0 | -9.66 | 1.158 | 105.3 | 0.429 | 1.552 | 306.8 | 532.3 | 0.886 | --- | 8.72 | 0.514 | 95.7 | 251.9 | 20.2 | 0.225 |
| 4-4490 | 4-4870 | 0.351 | 137.3 | -12.8 | -8.46 | 1.155 | 105.4 | 0.425 | 1.537 | 306.1 | 537.8 | 0.884 | --- | 7.92 | 0.513 | 91.7 | 247.2 | 19.6 | 0.210 |
| 4-4490 | 4-4890 | 0.347 | 138.8 | -9.7 | -7.43 | 1.154 | 105.7 | 0.425 | 1.529 | 304.9 | 542.8 | 0.879 | 2.179 | 7.32 | 0.514 | 87.9 | 242.1 | 18.7 | 0.204 |
| 4-4490 | 4-4910 | 0.349 | 140.7 | -6.9 | -6.53 | 1.153 | 106.2 | 0.430 | 1.526 | 303.2 | 547.5 | 0.871 | 2.182 | 6.89 | 0.517 | 84.4 | 237.7 | 17.4 | 0.206 |
| 4-4490 | 4-4930 | 0.357 | 142.9 | -4.3 | -5.71 | 1.153 | 107.0 | 0.438 | 1.527 | 301.0 | 551.7 | 0.859 | 2.196 | 6.57 | 0.520 | 81.2 | 234.3 | 15.9 | 0.215 |
| 4-4490 | 4-4950 | 0.370 | 145.4 | -1.9 | -4.95 | 1.154 | 108.1 | 0.449 | 1.531 | 298.3 | 555.4 | 0.843 | 2.219 | 6.36 | 0.524 | 78.1 | 232.5 | 14.3 | 0.229 |
| 4-4490 | 4-4970 | 0.388 | 148.2 | 0.2 | -4.23 | 1.155 | 109.4 | 0.464 | 1.537 | 295.1 | 558.7 | 0.824 | 2.251 | 6.24 | 0.528 | 75.1 | 232.1 | 12.9 | 0.248 |
| 4-4490 | 4-4990 | 0.413 | 151.2 | 1.9 | -3.52 | 1.157 | 110.9 | 0.483 | 1.546 | 291.4 | 561.5 | 0.799 | 2.292 | 6.20 | 0.531 | 72.2 | 233.0 | 11.7 | 0.271 |
| 4-4490 | 4-5010 | 0.443 | 154.3 | 3.4 | -2.81 | 1.159 | 112.7 | 0.505 | 1.555 | 287.3 | 563.8 | 0.770 | 2.341 | 6.24 | 0.535 | 69.2 | 235.0 | 10.6 | 0.296 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4490 | 4-5030 | 0.479 | 157.5 | 4.5 | -2.09 | 1.161 | 114.9 | 0.531 | 1.567 | 282.7 | 565.7 | 0.735 | 2.398 | 6.37 | 0.537 | 66.2 | 237.9 | 9.7 | 0.324 |
| 4-4490 | 4-5050 | 0.522 | 160.9 | 5.2 | -1.33 | 1.163 | 117.4 | 0.561 | 1.579 | 277.6 | 567.0 | 0.693 | 2.465 | 6.58 | 0.540 | 63.0 | 241.5 | 8.9 | 0.355 |
| 4-4490 | 4-5070 | 0.572 | 164.3 | 5.7 | -0.51 | 1.165 | 120.2 | 0.595 | 1.593 | 272.0 | 567.8 | 0.645 | 2.540 | 6.89 | 0.542 | 59.6 | 245.8 | 8.3 | 0.389 |
| 4-4490 | 4-5090 | 0.629 | 167.8 | 5.9 | 0.39 | 1.167 | 123.5 | 0.633 | 1.607 | 266.0 | 568.1 | 0.589 | 2.625 | 7.33 | 0.543 | 55.9 | 250.7 | 7.7 | 0.426 |
| 4-4490 | 4-5110 | 0.695 | 171.3 | 5.8 | 1.41 | 1.170 | 127.2 | 0.676 | 1.623 | 259.4 | 567.8 | 0.526 | 2.719 | 7.92 | 0.544 | 51.9 | 256.1 | 7.3 | 0.466 |
| 4-4490 | 4-5130 | 0.770 | 175.0 | 5.4 | 2.62 | 1.173 | 131.4 | 0.721 | 1.640 | 252.3 | 566.9 | 0.457 | 2.823 | 8.72 | 0.545 | 47.6 | 261.9 | 6.9 | 0.509 |
| 4-4490 | 4-5150 | 0.853 | 178.7 | 4.8 | 4.09 | 1.176 | 136.1 | 0.770 | 1.658 | 244.7 | 565.3 | 0.382 | 2.934 | 9.81 | 0.545 | 42.8 | 268.1 | 6.5 | 0.555 |
| 4-4500 | 4-4760 | 0.845 | 148.4 | -60.8 | -41.35 | 1.208 | 107.1 | 0.534 | 1.883 | 309.4 | 500.0 | 0.877 | --- | 39.41 | 0.589 | 120.2 | 250.6 | 35.8 | 0.553 |
| 4-4500 | 4-4780 | 0.610 | 139.3 | -49.4 | -27.37 | 1.192 | 105.6 | 0.491 | 1.753 | 311.2 | 506.8 | 0.892 | --- | 25.78 | 0.561 | 114.5 | 257.6 | 31.7 | 0.422 |
| 4-4500 | 4-4800 | 0.489 | 137.1 | -40.9 | -20.16 | 1.180 | 104.5 | 0.460 | 1.671 | 312.5 | 513.6 | 0.902 | --- | 18.93 | 0.542 | 109.2 | 259.9 | 28.8 | 0.345 |
| 4-4500 | 4-4820 | 0.419 | 136.8 | -34.1 | -15.83 | 1.171 | 103.8 | 0.438 | 1.618 | 313.3 | 520.2 | 0.908 | --- | 14.96 | 0.530 | 104.2 | 259.6 | 27.0 | 0.292 |
| 4-4500 | 4-4840 | 0.375 | 137.2 | -28.5 | -12.91 | 1.166 | 103.4 | 0.424 | 1.583 | 313.6 | 526.4 | 0.912 | --- | 12.43 | 0.523 | 99.6 | 257.5 | 25.8 | 0.255 |
| 4-4500 | 4-4860 | 0.347 | 138.2 | -23.5 | -10.78 | 1.162 | 103.2 | 0.415 | 1.561 | 313.4 | 532.4 | 0.913 | --- | 10.70 | 0.520 | 95.4 | 253.9 | 24.9 | 0.229 |
| 4-4500 | 4-4880 | 0.330 | 139.7 | -19.0 | -9.14 | 1.159 | 103.3 | 0.411 | 1.547 | 312.7 | 537.9 | 0.911 | --- | 9.48 | 0.520 | 91.5 | 249.4 | 23.7 | 0.212 |
| 4-4500 | 4-4900 | 0.322 | 141.7 | -14.9 | -7.80 | 1.158 | 103.6 | 0.412 | 1.540 | 311.5 | 543.0 | 0.906 | 2.175 | 8.59 | 0.521 | 87.9 | 244.5 | 22.3 | 0.205 |
| 4-4500 | 4-4920 | 0.321 | 144.0 | -11.1 | -6.67 | 1.158 | 104.2 | 0.416 | 1.538 | 309.8 | 547.6 | 0.899 | 2.178 | 7.93 | 0.523 | 84.7 | 240.3 | 20.4 | 0.206 |
| 4-4500 | 4-4940 | 0.326 | 146.7 | -7.8 | -5.68 | 1.158 | 104.9 | 0.423 | 1.540 | 307.5 | 551.8 | 0.888 | 2.191 | 7.46 | 0.527 | 81.6 | 237.2 | 18.5 | 0.213 |
| 4-4500 | 4-4960 | 0.336 | 149.7 | -4.8 | -4.79 | 1.159 | 105.9 | 0.434 | 1.544 | 304.8 | 555.5 | 0.875 | 2.214 | 7.11 | 0.530 | 78.8 | 235.5 | 16.6 | 0.226 |
| 4-4500 | 4-4980 | 0.353 | 152.9 | -2.3 | -3.97 | 1.160 | 107.1 | 0.447 | 1.551 | 301.6 | 558.8 | 0.857 | 2.244 | 6.88 | 0.533 | 76.0 | 235.1 | 14.8 | 0.243 |
| 4-4500 | 4-5000 | 0.374 | 156.3 | -0.2 | -3.18 | 1.162 | 108.6 | 0.464 | 1.559 | 298.0 | 561.6 | 0.836 | 2.283 | 6.75 | 0.537 | 73.3 | 236.1 | 13.3 | 0.263 |
| 4-4500 | 4-5020 | 0.402 | 159.7 | 1.5 | -2.42 | 1.163 | 110.3 | 0.484 | 1.569 | 293.9 | 564.0 | 0.810 | 2.329 | 6.71 | 0.539 | 70.6 | 238.1 | 12.0 | 0.286 |
| 4-4500 | 4-5040 | 0.435 | 163.2 | 2.7 | -1.66 | 1.165 | 112.3 | 0.507 | 1.581 | 289.4 | 565.9 | 0.779 | 2.383 | 6.75 | 0.542 | 67.8 | 240.9 | 10.9 | 0.311 |
| 4-4500 | 4-5060 | 0.474 | 166.7 | 3.6 | -0.88 | 1.167 | 114.5 | 0.534 | 1.593 | 284.5 | 567.4 | 0.742 | 2.445 | 6.88 | 0.544 | 65.0 | 244.5 | 10.0 | 0.339 |
| 4-4500 | 4-5080 | 0.519 | 170.2 | 4.1 | -0.07 | 1.170 | 117.1 | 0.565 | 1.607 | 279.1 | 568.4 | 0.700 | 2.515 | 7.11 | 0.545 | 61.9 | 248.6 | 9.3 | 0.369 |
| 4-4500 | 4-5100 | 0.571 | 173.7 | 4.3 | 0.80 | 1.172 | 120.0 | 0.599 | 1.622 | 273.3 | 568.9 | 0.650 | 2.593 | 7.44 | 0.546 | 58.7 | 253.3 | 8.6 | 0.402 |
| 4-4500 | 4-5120 | 0.630 | 177.2 | 4.2 | 1.75 | 1.175 | 123.3 | 0.637 | 1.637 | 267.1 | 568.9 | 0.594 | 2.680 | 7.90 | 0.546 | 55.2 | 258.5 | 8.1 | 0.437 |
| 4-4500 | 4-5140 | 0.696 | 180.7 | 3.9 | 2.83 | 1.177 | 127.0 | 0.679 | 1.654 | 260.5 | 568.4 | 0.531 | 2.776 | 8.51 | 0.546 | 51.3 | 264.0 | 7.7 | 0.474 |
| 4-4500 | 4-5160 | 0.771 | 184.3 | 3.3 | 4.08 | 1.180 | 131.1 | 0.723 | 1.671 | 253.4 | 567.3 | 0.463 | 2.879 | 9.34 | 0.546 | 47.1 | 270.0 | 7.2 | 0.515 |
| 4-4510 | 4-4690 | 0.634 | 176.9 | 38.4 | 16.08 | 1.359 | 111.5 | 0.872 | 6.706 | 313.7 | 471.2 | 0.858 | --- | -18.66 | 0.839 | 139.9 | 257.9 | -13.6 | 0.734 |
| 4-4510 | 4-4710 | 0.629 | 190.9 | 48.3 | 22.03 | 1.301 | 108.7 | 0.734 | 3.308 | 315.3 | 478.0 | 0.879 | --- | -24.25 | 0.747 | 134.7 | 258.2 | -19.7 | 0.646 |
| 4-4510 | 4-4730 | 0.738 | 218.4 | 54.3 | 32.84 | 1.260 | 106.3 | 0.633 | 2.451 | 317.4 | 485.0 | 0.900 | --- | -34.72 | 0.678 | 129.1 | 254.9 | -29.1 | 0.615 |
| 4-4510 | 4-4790 | 0.884 | 150.1 | -70.9 | -45.24 | 1.193 | 103.6 | 0.477 | 1.749 | 316.8 | 506.9 | 0.914 | --- | 44.44 | 0.563 | 113.5 | 249.4 | 41.0 | 0.551 |
| 4-4510 | 4-4810 | 0.604 | 137.4 | -57.7 | -28.73 | 1.182 | 102.4 | 0.446 | 1.671 | 318.9 | 513.8 | 0.926 | --- | 28.30 | 0.546 | 108.2 | 257.5 | 37.8 | 0.401 |
| 4-4510 | 4-4830 | 0.466 | 136.0 | -47.6 | -20.46 | 1.174 | 101.7 | 0.425 | 1.621 | 320.0 | 520.5 | 0.932 | --- | 20.42 | 0.534 | 103.3 | 259.5 | 34.5 | 0.320 |
| 4-4510 | 4-4850 | 0.389 | 136.8 | -39.5 | -15.61 | 1.169 | 101.2 | 0.411 | 1.589 | 320.4 | 526.8 | 0.935 | --- | 15.96 | 0.528 | 98.9 | 258.4 | 32.1 | 0.270 |
| 4-4510 | 4-4870 | 0.343 | 138.4 | -32.5 | -12.41 | 1.165 | 101.1 | 0.403 | 1.568 | 320.3 | 532.8 | 0.936 | --- | 13.17 | 0.525 | 94.8 | 255.2 | 30.1 | 0.238 |
| 4-4510 | 4-4890 | 0.316 | 140.5 | -26.3 | -10.11 | 1.163 | 101.2 | 0.400 | 1.556 | 319.6 | 538.3 | 0.934 | --- | 11.29 | 0.525 | 91.1 | 251.0 | 28.1 | 0.218 |
| 4-4510 | 4-4910 | 0.301 | 143.2 | -20.8 | -8.34 | 1.162 | 101.6 | 0.400 | 1.550 | 318.4 | 543.3 | 0.930 | 2.170 | 9.97 | 0.527 | 87.8 | 246.4 | 25.9 | 0.209 |
| 4-4510 | 4-4930 | 0.295 | 146.2 | -15.8 | -6.91 | 1.162 | 102.1 | 0.404 | 1.549 | 316.8 | 547.9 | 0.923 | 2.175 | 9.02 | 0.529 | 84.7 | 242.5 | 23.4 | 0.208 |
| 4-4510 | 4-4950 | 0.297 | 149.7 | -11.5 | -5.71 | 1.162 | 102.9 | 0.411 | 1.551 | 314.3 | 552.0 | 0.914 | 2.188 | 8.32 | 0.532 | 81.9 | 239.6 | 20.9 | 0.213 |
| 4-4510 | 4-4970 | 0.305 | 153.3 | -7.8 | -4.67 | 1.163 | 103.8 | 0.420 | 1.556 | 311.5 | 555.7 | 0.902 | 2.211 | 7.81 | 0.535 | 79.2 | 238.1 | 18.6 | 0.224 |
| 4-4510 | 4-4990 | 0.319 | 157.1 | -4.7 | -3.73 | 1.165 | 105.0 | 0.433 | 1.564 | 308.3 | 558.9 | 0.887 | 2.240 | 7.45 | 0.538 | 76.6 | 238.0 | 16.5 | 0.239 |
| 4-4510 | 4-5010 | 0.339 | 161.0 | -2.2 | -2.87 | 1.166 | 106.4 | 0.448 | 1.573 | 304.7 | 561.7 | 0.888 | 2.277 | 7.21 | 0.541 | 74.2 | 239.0 | 14.7 | 0.257 |
| 4-4510 | 4-5030 | 0.364 | 164.8 | -0.3 | -2.05 | 1.168 | 108.0 | 0.466 | 1.583 | 300.8 | 564.1 | 0.846 | 2.321 | 7.07 | 0.544 | 71.7 | 241.0 | 13.2 | 0.278 |
| 4-4510 | 4-5050 | 0.394 | 168.6 | 1.1 | -1.25 | 1.170 | 109.8 | 0.487 | 1.595 | 296.1 | 566.1 | 0.818 | 2.372 | 7.02 | 0.546 | 69.2 | 243.9 | 12.0 | 0.301 |
| 4-4510 | 4-5070 | 0.430 | 172.4 | 2.0 | -0.46 | 1.172 | 111.9 | 0.511 | 1.608 | 291.3 | 567.6 | 0.786 | 2.429 | 7.07 | 0.547 | 66.6 | 247.4 | 10.9 | 0.325 |
| 4-4510 | 4-5090 | 0.471 | 176.0 | 2.6 | 0.34 | 1.174 | 114.2 | 0.538 | 1.622 | 286.1 | 568.7 | 0.749 | 2.494 | 7.20 | 0.548 | 63.9 | 251.4 | 10.1 | 0.352 |
| 4-4510 | 4-5110 | 0.518 | 179.6 | 2.8 | 1.17 | 1.177 | 116.9 | 0.569 | 1.636 | 280.6 | 569.4 | 0.705 | 2.567 | 7.42 | 0.548 | 61.0 | 256.0 | 9.4 | 0.381 |
| 4-4510 | 4-5130 | 0.571 | 183.1 | 2.7 | 2.06 | 1.179 | 119.8 | 0.603 | 1.652 | 274.7 | 569.7 | 0.656 | 2.647 | 7.76 | 0.549 | 57.9 | 261.0 | 8.8 | 0.412 |
| 4-4510 | 4-5150 | 0.631 | 186.6 | 2.3 | 3.03 | 1.182 | 123.1 | 0.640 | 1.668 | 268.4 | 569.5 | 0.600 | 2.736 | 8.21 | 0.548 | 54.5 | 266.3 | 8.2 | 0.445 |
| 4-4510 | 4-5170 | 0.697 | 190.0 | 1.8 | 4.11 | 1.184 | 126.8 | 0.681 | 1.685 | 261.7 | 568.9 | 0.538 | 2.832 | 8.82 | 0.548 | 50.8 | 271.9 | 7.8 | 0.480 |
| 4-4520 | 4-4680 | 0.635 | 173.0 | 27.4 | 10.39 | 1.429 | 111.1 | 1.036 | 24.525 | 318.5 | 463.8 | 0.872 | --- | -12.60 | 0.943 | 143.2 | 259.7 | -8.6 | 0.828 |
| 4-4520 | 4-4700 | 0.557 | 177.7 | 34.9 | 12.83 | 1.352 | 108.3 | 0.844 | 5.722 | 319.9 | 470.5 | 0.892 | --- | -14.66 | 0.826 | 138.3 | 261.6 | -11.5 | 0.700 |
| 4-4520 | 4-4720 | 0.524 | 186.0 | 44.1 | 16.30 | 1.297 | 105.8 | 0.709 | 3.124 | 321.6 | 477.6 | 0.910 | --- | -17.77 | 0.737 | 133.1 | 262.8 | -15.8 | 0.603 |
| 4-4520 | 4-4740 | 0.548 | 201.9 | 53.3 | 21.70 | 1.258 | 103.6 | 0.611 | 2.379 | 323.7 | 485.0 | 0.926 | --- | -22.81 | 0.671 | 127.6 | 262.6 | -22.5 | 0.540 |
| 4-4520 | 4-4760 | 0.668 | 229.8 | 57.2 | 31.29 | 1.229 | 101.7 | 0.539 | 2.039 | 326.1 | 492.6 | 0.940 | --- | -32.03 | 0.623 | 122.0 | 258.8 | -32.1 | 0.526 |
| 4-4520 | 4-4780 | 0.983 | 259.1 | 48.4 | 51.33 | 1.209 | 99.9 | 0.485 | 1.852 | 329.3 | 500.2 | 0.954 | --- | -51.70 | 0.588 | 116.3 | 246.7 | -41.3 | 0.627 |
| 4-4520 | 4-4820 | 0.918 | 143.6 | -79.3 | -48.15 | 1.184 | 100.5 | 0.434 | 1.668 | 324.8 | 514.4 | 0.944 | --- | 48.53 | 0.547 | 107.2 | 248.3 | 44.4 | 0.560 |
| 4-4520 | 4-4840 | 0.595 | 131.8 | -63.7 | -29.29 | 1.177 | 99.5 | 0.413 | 1.622 | 326.8 | 521.2 | 0.952 | --- | 30.05 | 0.537 | 102.3 | 256.5 | 42.6 | 0.388 |
| 4-4520 | 4-4860 | 0.441 | 133.1 | -52.3 | -20.15 | 1.172 | 99.1 | 0.400 | 1.592 | 327.6 | 527.6 | 0.955 | --- | 21.30 | 0.532 | 98.0 | 257.9 | 39.1 | 0.303 |
| 4-4520 | 4-4880 | 0.359 | 135.9 | -42.9 | -14.92 | 1.169 | 99.0 | 0.393 | 1.574 | 327.8 | 533.5 | 0.955 | --- | 16.48 | 0.530 | 94.2 | 255.8 | 35.9 | 0.256 |
| 4-4520 | 4-4900 | 0.313 | 139.2 | -34.7 | -11.53 | 1.167 | 99.1 | 0.390 | 1.563 | 326.9 | 539.0 | 0.954 | --- | 13.51 | 0.530 | 90.7 | 252.0 | 32.8 | 0.229 |
| 4-4520 | 4-4920 | 0.287 | 142.9 | -27.4 | -9.11 | 1.166 | 99.5 | 0.390 | 1.559 | 325.6 | 543.9 | 0.950 | 2.167 | 11.54 | 0.532 | 87.5 | 247.9 | 29.6 | 0.215 |
| 4-4520 | 4-4940 | 0.274 | 147.0 | -21.0 | -7.28 | 1.166 | 100.0 | 0.394 | 1.559 | 323.7 | 548.4 | 0.944 | 2.173 | 10.16 | 0.534 | 84.6 | 244.2 | 26.4 | 0.211 |
| 4-4520 | 4-4960 | 0.271 | 151.4 | -15.4 | -5.81 | 1.167 | 100.8 | 0.400 | 1.562 | 321.3 | 552.4 | 0.937 | 2.187 | 9.18 | 0.537 | 82.0 | 241.7 | 23.3 | 0.215 |
| 4-4520 | 4-4980 | 0.277 | 156.0 | -10.7 | -4.58 | 1.168 | 101.7 | 0.409 | 1.568 | 318.4 | 556.0 | 0.926 | 2.210 | 8.46 | 0.540 | 79.5 | 240.5 | 20.4 | 0.224 |
| 4-4520 | 4-5000 | 0.288 | 160.6 | -7.0 | -3.52 | 1.169 | 102.9 | 0.421 | 1.576 | 315.2 | 559.2 | 0.913 | 2.239 | 7.94 | 0.543 | 77.1 | 240.5 | 18.0 | 0.237 |
| 4-4520 | 4-5020 | 0.306 | 165.1 | -4.0 | -2.57 | 1.171 | 104.2 | 0.434 | 1.586 | 311.5 | 561.9 | 0.897 | 2.274 | 7.57 | 0.545 | 74.8 | 241.7 | 15.9 | 0.253 |
| 4-4520 | 4-5040 | 0.328 | 169.5 | -1.8 | -1.69 | 1.173 | 105.7 | 0.451 | 1.597 | 307.4 | 564.3 | 0.877 | 2.316 | 7.32 | 0.547 | 72.6 | 243.8 | 14.2 | 0.271 |
| 4-4520 | 4-5060 | 0.356 | 173.8 | -0.3 | -0.86 | 1.175 | 107.4 | 0.469 | 1.609 | 303.0 | 566.2 | 0.854 | 2.364 | 7.18 | 0.549 | 70.3 | 246.7 | 12.8 | 0.292 |
| 4-4520 | 4-5080 | 0.389 | 177.8 | 0.7 | -0.07 | 1.177 | 109.4 | 0.491 | 1.622 | 298.2 | 567.8 | 0.826 | 2.419 | 7.13 | 0.550 | 68.0 | 250.2 | 11.6 | 0.314 |
| 4-4520 | 4-5100 | 0.427 | 181.7 | 1.3 | 0.72 | 1.179 | 111.5 | 0.515 | 1.636 | 293.1 | 569.0 | 0.793 | 2.479 | 7.17 | 0.551 | 65.5 | 254.2 | 10.7 | 0.338 |
| 4-4520 | 4-5120 | 0.470 | 185.4 | 1.5 | 1.52 | 1.181 | 113.9 | 0.543 | 1.651 | 287.7 | 569.9 | 0.755 | 2.547 | 7.30 | 0.551 | 62.9 | 258.7 | 9.9 | 0.363 |
| 4-4520 | 4-5140 | 0.518 | 189.0 | 1.3 | 2.35 | 1.184 | 116.6 | 0.573 | 1.666 | 282.1 | 570.3 | 0.711 | 2.621 | 7.51 | 0.551 | 60.2 | 263.5 | 9.2 | 0.390 |
| 4-4520 | 4-5160 | 0.572 | 192.5 | 1.0 | 3.23 | 1.186 | 119.5 | 0.607 | 1.682 | 276.1 | 570.4 | 0.862 | 2.703 | 7.83 | 0.550 | 57.2 | 268.6 | 8.7 | 0.419 |
| 4-4520 | 4-5180 | 0.632 | 195.9 | 0.4 | 4.18 | 1.189 | 122.8 | 0.643 | 1.699 | 269.8 | 570.1 | 0.807 | 2.792 | 8.27 | 0.549 | 54.0 | 274.1 | 8.2 | 0.450 |
| 4-4530 | 4-4690 | 0.568 | 175.7 | 26.2 | 9.15 | 1.416 | 107.5 | 0.998 | 46.318 | 325.0 | 463.2 | 0.906 | --- | -10.58 | 0.922 | 141.5 | 262.8 | -7.6 | 0.792 |
| 4-4530 | 4-4710 | 0.491 | 179.0 | 33.3 | 10.86 | 1.343 | 104.9 | 0.811 | 4.886 | 326.7 | 470.3 | 0.923 | --- | -11.91 | 0.810 | 136.6 | 264.8 | -9.9 | 0.666 |
| 4-4530 | 4-4730 | 0.450 | 184.4 | 41.9 | 13.12 | 1.291 | 102.6 | 0.680 | 2.931 | 328.6 | 477.8 | 0.937 | --- | -13.80 | 0.725 | 131.4 | 266.3 | -13.2 | 0.568 |
| 4-4530 | 4-4750 | 0.445 | 194.2 | 51.2 | 16.30 | 1.254 | 100.7 | 0.587 | 2.298 | 330.9 | 485.5 | 0.950 | --- | -16.61 | 0.663 | 125.9 | 267.0 | -18.0 | 0.495 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4530 | 4-4770 | 0.490 | 212.2 | 59.0 | 21.20 | 1.227 | 99.1 | 0.519 | 1.997 | 333.2 | 493.4 | 0.960 | --- | -21.14 | 0.617 | 120.4 | 266.0 | -25.2 | 0.450 |
| 4-4530 | 4-4790 | 0.613 | 240.5 | 60.7 | 29.76 | 1.209 | 97.7 | 0.471 | 1.829 | 335.7 | 501.3 | 0.968 | --- | -29.33 | 0.585 | 114.9 | 261.7 | -35.1 | 0.452 |
| 4-4530 | 4-4810 | 0.907 | 267.5 | 51.7 | 47.53 | 1.195 | 96.4 | 0.435 | 1.726 | 338.7 | 509.1 | 0.976 | --- | -46.73 | 0.563 | 109.6 | 250.3 | -44.0 | 0.556 |
| 4-4530 | 4-4850 | 0.940 | 105.4 | -84.2 | -49.99 | 1.179 | 97.6 | 0.404 | 1.619 | 333.2 | 522.2 | 0.966 | --- | 51.55 | 0.539 | 101.4 | 248.0 | 46.4 | 0.572 |
| 4-4530 | 4-4870 | 0.579 | 122.6 | -66.9 | -28.97 | 1.175 | 97.0 | 0.391 | 1.593 | 334.9 | 528.7 | 0.970 | --- | 30.92 | 0.535 | 97.1 | 255.1 | 45.9 | 0.380 |
| 4-4530 | 4-4890 | 0.413 | 129.2 | -54.5 | -19.19 | 1.172 | 96.8 | 0.385 | 1.577 | 335.1 | 534.6 | 0.971 | --- | 21.53 | 0.533 | 93.4 | 255.3 | 42.0 | 0.292 |
| 4-4530 | 4-4910 | 0.328 | 134.8 | -44.1 | -13.75 | 1.170 | 97.0 | 0.382 | 1.569 | 334.4 | 539.9 | 0.969 | --- | 16.49 | 0.534 | 90.0 | 252.5 | 37.8 | 0.248 |
| 4-4530 | 4-4930 | 0.283 | 140.3 | -34.8 | -10.28 | 1.170 | 97.4 | 0.383 | 1.566 | 333.0 | 544.8 | 0.966 | 2.165 | 13.44 | 0.536 | 87.1 | 248.8 | 33.4 | 0.226 |
| 4-4530 | 4-4950 | 0.259 | 146.0 | -26.6 | -7.84 | 1.170 | 98.0 | 0.386 | 1.567 | 331.0 | 549.1 | 0.962 | 2.173 | 11.44 | 0.538 | 84.3 | 245.6 | 29.3 | 0.217 |
| 4-4530 | 4-4970 | 0.250 | 151.7 | -19.5 | -6.00 | 1.171 | 98.7 | 0.392 | 1.572 | 328.5 | 553.0 | 0.955 | 2.188 | 10.06 | 0.541 | 81.9 | 243.4 | 25.4 | 0.218 |
| 4-4530 | 4-4990 | 0.251 | 157.5 | -13.6 | -4.54 | 1.172 | 99.7 | 0.400 | 1.579 | 325.6 | 556.5 | 0.946 | 2.211 | 9.07 | 0.544 | 79.6 | 242.5 | 22.0 | 0.225 |
| 4-4530 | 4-5010 | 0.260 | 163.1 | -9.0 | -3.32 | 1.174 | 100.8 | 0.411 | 1.587 | 322.2 | 559.5 | 0.935 | 2.240 | 8.36 | 0.547 | 77.4 | 242.9 | 19.2 | 0.236 |
| 4-4530 | 4-5030 | 0.275 | 168.6 | -5.4 | -2.27 | 1.175 | 102.0 | 0.423 | 1.598 | 318.4 | 562.2 | 0.922 | 2.274 | 7.84 | 0.549 | 75.3 | 244.2 | 16.8 | 0.250 |
| 4-4530 | 4-5050 | 0.296 | 173.7 | -2.9 | -1.33 | 1.177 | 103.5 | 0.438 | 1.610 | 314.3 | 564.5 | 0.905 | 2.314 | 7.47 | 0.551 | 73.2 | 246.4 | 14.9 | 0.267 |
| 4-4530 | 4-5070 | 0.321 | 178.6 | -1.2 | -0.47 | 1.179 | 105.1 | 0.455 | 1.622 | 309.9 | 566.4 | 0.885 | 2.360 | 7.23 | 0.552 | 71.1 | 249.4 | 13.3 | 0.285 |
| 4-4530 | 4-5090 | 0.352 | 183.1 | -0.2 | 0.33 | 1.182 | 106.9 | 0.474 | 1.636 | 305.1 | 568.0 | 0.860 | 2.412 | 7.08 | 0.553 | 69.0 | 252.9 | 12.1 | 0.304 |
| 4-4530 | 4-5110 | 0.386 | 187.3 | 0.4 | 1.11 | 1.184 | 108.9 | 0.496 | 1.650 | 300.2 | 569.3 | 0.832 | 2.469 | 7.03 | 0.553 | 66.9 | 256.9 | 11.0 | 0.326 |
| 4-4530 | 4-5130 | 0.426 | 191.2 | 0.5 | 1.87 | 1.186 | 111.2 | 0.520 | 1.665 | 294.9 | 570.2 | 0.799 | 2.532 | 7.06 | 0.553 | 64.6 | 261.3 | 10.2 | 0.348 |
| 4-4530 | 4-5150 | 0.470 | 194.9 | 0.3 | 2.64 | 1.189 | 113.6 | 0.547 | 1.681 | 289.4 | 570.8 | 0.761 | 2.601 | 7.17 | 0.553 | 62.1 | 266.0 | 9.4 | 0.372 |
| 4-4530 | 4-5170 | 0.519 | 198.4 | -0.1 | 3.44 | 1.191 | 116.3 | 0.577 | 1.697 | 283.6 | 571.1 | 0.718 | 2.677 | 7.37 | 0.552 | 59.5 | 271.0 | 8.8 | 0.397 |
| 4-4530 | 4-5190 | 0.572 | 201.8 | -0.8 | 4.27 | 1.193 | 119.2 | 0.610 | 1.714 | 277.6 | 571.0 | 0.669 | 2.759 | 7.66 | 0.551 | 56.7 | 276.3 | 8.3 | 0.423 |
| 4-4540 | 4-4680 | 0.613 | 175.8 | 20.7 | 7.26 | 1.501 | 106.3 | 1.220 | -4.185 | 330.5 | 456.1 | 0.923 | --- | -8.27 | 1.043 | 144.4 | 263.5 | -5.5 | 0.911 |
| 4-4540 | 4-4700 | 0.504 | 177.5 | 26.2 | 8.31 | 1.401 | 103.6 | 0.953 | 20.072 | 332.0 | 463.1 | 0.937 | --- | -8.92 | 0.898 | 139.8 | 265.7 | -6.8 | 0.754 |
| 4-4540 | 4-4720 | 0.432 | 179.6 | 33.4 | 9.56 | 1.332 | 101.3 | 0.773 | 4.192 | 334.0 | 470.6 | 0.950 | --- | -9.79 | 0.791 | 134.9 | 267.6 | -8.7 | 0.632 |
| 4-4540 | 4-4740 | 0.390 | 183.0 | 41.8 | 11.14 | 1.284 | 99.3 | 0.649 | 2.736 | 336.4 | 478.5 | 0.961 | --- | -10.99 | 0.711 | 129.6 | 269.1 | -11.2 | 0.536 |
| 4-4540 | 4-4760 | 0.377 | 189.0 | 50.8 | 13.20 | 1.249 | 97.6 | 0.561 | 2.209 | 338.9 | 486.7 | 0.970 | --- | -12.68 | 0.652 | 124.1 | 270.0 | -14.9 | 0.460 |
| 4-4540 | 4-4780 | 0.393 | 200.3 | 59.3 | 16.09 | 1.225 | 96.2 | 0.499 | 1.948 | 341.4 | 494.9 | 0.976 | --- | -15.20 | 0.610 | 118.6 | 269.9 | -20.3 | 0.406 |
| 4-4540 | 4-4800 | 0.447 | 220.7 | 65.1 | 20.49 | 1.207 | 95.1 | 0.455 | 1.800 | 343.7 | 503.0 | 0.981 | --- | -19.24 | 0.580 | 113.3 | 268.1 | -27.9 | 0.376 |
| 4-4540 | 4-4820 | 0.568 | 249.6 | 64.9 | 28.12 | 1.195 | 94.2 | 0.424 | 1.709 | 345.9 | 510.8 | 0.985 | --- | -26.51 | 0.560 | 108.2 | 263.2 | -37.8 | 0.388 |
| 4-4540 | 4-4840 | 0.839 | 275.1 | 55.6 | 43.99 | 1.186 | 93.3 | 0.402 | 1.651 | 348.3 | 518.3 | 0.988 | --- | -42.01 | 0.548 | 103.4 | 252.7 | -46.2 | 0.494 |
| 4-4540 | 4-4880 | 0.948 | 57.3 | -81.7 | -50.68 | 1.177 | 95.1 | 0.385 | 1.592 | 341.6 | 529.9 | 0.979 | --- | 53.39 | 0.537 | 96.2 | 248.9 | 47.4 | 0.582 |
| 4-4540 | 4-4900 | 0.551 | 113.0 | -67.1 | -27.73 | 1.175 | 94.7 | 0.378 | 1.579 | 342.7 | 535.9 | 0.981 | --- | 30.82 | 0.536 | 92.5 | 253.6 | 47.7 | 0.371 |
| 4-4540 | 4-4920 | 0.379 | 125.8 | -54.1 | -17.59 | 1.173 | 94.8 | 0.376 | 1.573 | 342.2 | 541.2 | 0.981 | 2.164 | 21.06 | 0.537 | 89.3 | 252.5 | 43.0 | 0.283 |
| 4-4540 | 4-4940 | 0.295 | 134.6 | -42.8 | -12.12 | 1.173 | 95.2 | 0.377 | 1.572 | 340.7 | 545.9 | 0.978 | 2.165 | 15.98 | 0.539 | 86.5 | 249.5 | 37.5 | 0.243 |
| 4-4540 | 4-4960 | 0.253 | 142.5 | -32.6 | -8.70 | 1.174 | 95.8 | 0.381 | 1.574 | 338.6 | 550.0 | 0.975 | 2.174 | 12.96 | 0.542 | 83.9 | 246.7 | 32.2 | 0.227 |
| 4-4540 | 4-4980 | 0.233 | 150.2 | -23.7 | -6.32 | 1.175 | 96.6 | 0.386 | 1.580 | 336.0 | 553.8 | 0.970 | 2.191 | 11.00 | 0.545 | 81.6 | 244.9 | 27.4 | 0.223 |
| 4-4540 | 4-5000 | 0.229 | 157.5 | -16.3 | -4.54 | 1.176 | 97.6 | 0.394 | 1.588 | 332.9 | 557.1 | 0.963 | 2.214 | 9.65 | 0.547 | 79.5 | 244.4 | 23.4 | 0.227 |
| 4-4540 | 4-5020 | 0.234 | 164.6 | -10.5 | -3.13 | 1.178 | 98.7 | 0.403 | 1.598 | 329.4 | 560.0 | 0.954 | 2.243 | 8.70 | 0.550 | 77.5 | 245.0 | 20.1 | 0.236 |
| 4-4540 | 4-5040 | 0.247 | 171.2 | -6.3 | -1.96 | 1.180 | 99.9 | 0.414 | 1.610 | 325.5 | 562.6 | 0.942 | 2.277 | 8.01 | 0.552 | 75.6 | 246.5 | 17.4 | 0.248 |
| 4-4540 | 4-5060 | 0.265 | 177.3 | -3.4 | -0.96 | 1.182 | 101.3 | 0.428 | 1.622 | 321.4 | 564.8 | 0.928 | 2.316 | 7.51 | 0.554 | 73.7 | 248.9 | 15.3 | 0.263 |
| 4-4540 | 4-5080 | 0.289 | 182.8 | -1.5 | -0.07 | 1.184 | 102.9 | 0.443 | 1.636 | 316.9 | 566.7 | 0.911 | 2.360 | 7.16 | 0.555 | 71.8 | 252.0 | 13.6 | 0.279 |
| 4-4540 | 4-5100 | 0.317 | 187.9 | -0.5 | 0.74 | 1.186 | 104.6 | 0.460 | 1.650 | 312.2 | 568.2 | 0.891 | 2.409 | 6.92 | 0.555 | 69.9 | 255.5 | 12.2 | 0.297 |
| 4-4540 | 4-5120 | 0.349 | 192.5 | -0.0 | 1.50 | 1.188 | 106.5 | 0.479 | 1.665 | 307.2 | 569.5 | 0.866 | 2.463 | 6.77 | 0.555 | 67.9 | 259.5 | 11.1 | 0.315 |
| 4-4540 | 4-5140 | 0.386 | 196.7 | -0.0 | 2.23 | 1.191 | 108.5 | 0.501 | 1.680 | 302.1 | 570.5 | 0.838 | 2.522 | 6.71 | 0.555 | 65.9 | 263.9 | 10.2 | 0.335 |
| 4-4540 | 4-5160 | 0.426 | 200.7 | -0.3 | 2.95 | 1.193 | 110.8 | 0.525 | 1.696 | 296.7 | 571.2 | 0.805 | 2.587 | 6.73 | 0.554 | 63.7 | 268.5 | 9.4 | 0.356 |
| 4-4540 | 4-5180 | 0.470 | 204.3 | -0.9 | 3.67 | 1.195 | 113.2 | 0.552 | 1.712 | 291.1 | 571.6 | 0.768 | 2.657 | 6.83 | 0.553 | 61.4 | 273.4 | 8.8 | 0.378 |
| 4-4540 | 4-5200 | 0.519 | 207.7 | -1.6 | 4.40 | 1.198 | 115.9 | 0.581 | 1.729 | 285.3 | 571.7 | 0.725 | 2.733 | 7.00 | 0.552 | 58.9 | 278.5 | 8.3 | 0.401 |
| 4-4550 | 4-4690 | 0.544 | 177.0 | 21.7 | 6.92 | 1.477 | 101.9 | 1.155 | -6.134 | 337.8 | 456.2 | 0.952 | --- | -7.04 | 1.008 | 142.7 | 266.2 | -5.0 | 0.864 |
| 4-4550 | 4-4710 | 0.445 | 177.7 | 27.7 | 7.73 | 1.384 | 99.6 | 0.901 | 9.760 | 339.8 | 463.7 | 0.962 | --- | -7.47 | 0.870 | 138.1 | 268.2 | -6.1 | 0.714 |
| 4-4550 | 4-4730 | 0.381 | 178.4 | 35.1 | 8.68 | 1.320 | 97.5 | 0.732 | 3.621 | 342.2 | 471.7 | 0.971 | --- | -8.03 | 0.769 | 133.0 | 270.0 | -7.6 | 0.596 |
| 4-4550 | 4-4750 | 0.343 | 179.8 | 43.5 | 9.81 | 1.275 | 95.7 | 0.616 | 2.546 | 344.9 | 480.1 | 0.978 | --- | -8.80 | 0.694 | 127.6 | 271.5 | -9.6 | 0.503 |
| 4-4550 | 4-4770 | 0.328 | 182.6 | 52.3 | 11.22 | 1.243 | 94.3 | 0.535 | 2.116 | 347.7 | 488.6 | 0.983 | --- | -9.85 | 0.640 | 122.1 | 272.3 | -12.5 | 0.429 |
| 4-4550 | 4-4790 | 0.332 | 188.8 | 60.6 | 13.06 | 1.221 | 93.1 | 0.479 | 1.895 | 350.4 | 497.1 | 0.987 | --- | -11.33 | 0.601 | 116.7 | 272.3 | -16.5 | 0.372 |
| 4-4550 | 4-4810 | 0.359 | 201.4 | 67.5 | 15.63 | 1.205 | 92.2 | 0.440 | 1.766 | 352.7 | 505.3 | 0.989 | --- | -13.55 | 0.574 | 111.4 | 271.2 | -22.2 | 0.331 |
| 4-4550 | 4-4830 | 0.416 | 225.0 | 71.4 | 19.52 | 1.194 | 91.6 | 0.413 | 1.687 | 354.7 | 513.1 | 0.990 | --- | -17.10 | 0.557 | 106.5 | 268.3 | -30.0 | 0.313 |
| 4-4550 | 4-4850 | 0.527 | 256.0 | 69.7 | 26.24 | 1.186 | 91.1 | 0.395 | 1.638 | 356.1 | 520.4 | 0.990 | --- | -23.47 | 0.546 | 101.9 | 262.8 | -39.7 | 0.333 |
| 4-4550 | 4-4870 | 0.773 | 281.3 | 60.2 | 40.35 | 1.181 | 90.7 | 0.383 | 1.607 | 357.5 | 527.3 | 0.991 | --- | -37.25 | 0.540 | 97.7 | 253.9 | -47.8 | 0.437 |
| 4-4550 | 4-4910 | 0.939 | 47.9 | -76.5 | -50.18 | 1.177 | 92.8 | 0.375 | 1.578 | 349.7 | 537.4 | 0.987 | --- | 53.98 | 0.537 | 91.6 | 250.9 | 47.9 | 0.585 |
| 4-4550 | 4-4930 | 0.511 | 107.3 | -64.6 | -25.55 | 1.176 | 92.7 | 0.373 | 1.575 | 350.1 | 542.6 | 0.987 | 2.162 | 29.69 | 0.539 | 88.4 | 252.5 | 48.0 | 0.359 |
| 4-4550 | 4-4950 | 0.339 | 124.7 | -51.2 | -15.39 | 1.176 | 93.1 | 0.374 | 1.576 | 348.7 | 547.2 | 0.986 | 2.168 | 19.89 | 0.541 | 85.8 | 250.2 | 42.0 | 0.275 |
| 4-4550 | 4-4970 | 0.261 | 136.4 | -38.9 | -10.10 | 1.177 | 93.7 | 0.378 | 1.580 | 346.5 | 551.1 | 0.984 | 2.177 | 14.96 | 0.544 | 83.4 | 247.7 | 35.3 | 0.242 |
| 4-4550 | 4-4990 | 0.225 | 146.5 | -27.8 | -6.84 | 1.178 | 94.5 | 0.383 | 1.588 | 343.7 | 554.7 | 0.980 | 2.195 | 12.07 | 0.547 | 81.2 | 246.3 | 29.4 | 0.231 |
| 4-4550 | 4-5010 | 0.211 | 155.9 | -18.5 | -4.60 | 1.180 | 95.5 | 0.390 | 1.597 | 340.4 | 557.8 | 0.975 | 2.219 | 10.22 | 0.550 | 79.3 | 246.0 | 24.5 | 0.231 |
| 4-4550 | 4-5030 | 0.212 | 164.7 | -11.4 | -2.94 | 1.182 | 96.6 | 0.398 | 1.608 | 336.8 | 560.6 | 0.968 | 2.248 | 8.96 | 0.553 | 77.4 | 246.9 | 20.7 | 0.238 |
| 4-4550 | 4-5050 | 0.222 | 172.7 | -6.3 | -1.63 | 1.184 | 97.8 | 0.408 | 1.620 | 332.8 | 563.0 | 0.959 | 2.282 | 8.07 | 0.555 | 75.7 | 248.7 | 17.7 | 0.248 |
| 4-4550 | 4-5070 | 0.238 | 180.0 | -3.0 | -0.55 | 1.186 | 99.2 | 0.420 | 1.634 | 328.5 | 565.1 | 0.948 | 2.320 | 7.42 | 0.556 | 74.0 | 251.3 | 15.4 | 0.260 |
| 4-4550 | 4-5090 | 0.260 | 186.5 | -1.0 | 0.37 | 1.188 | 100.7 | 0.433 | 1.648 | 324.0 | 566.9 | 0.934 | 2.362 | 6.96 | 0.557 | 72.3 | 254.4 | 13.5 | 0.275 |
| 4-4550 | 4-5110 | 0.286 | 192.3 | -0.0 | 1.19 | 1.190 | 102.3 | 0.449 | 1.663 | 319.3 | 568.5 | 0.917 | 2.409 | 6.62 | 0.557 | 70.5 | 258.0 | 12.1 | 0.290 |
| 4-4550 | 4-5130 | 0.315 | 197.4 | 0.3 | 1.93 | 1.193 | 104.1 | 0.466 | 1.678 | 314.4 | 569.7 | 0.896 | 2.460 | 6.40 | 0.557 | 68.8 | 262.1 | 10.9 | 0.307 |
| 4-4550 | 4-5150 | 0.349 | 202.0 | 0.1 | 2.62 | 1.195 | 106.0 | 0.485 | 1.694 | 309.3 | 570.8 | 0.872 | 2.516 | 6.26 | 0.557 | 66.9 | 266.4 | 9.9 | 0.324 |
| 4-4550 | 4-5170 | 0.386 | 206.2 | -0.4 | 3.28 | 1.197 | 108.1 | 0.507 | 1.710 | 304.0 | 571.5 | 0.844 | 2.577 | 6.20 | 0.556 | 65.0 | 271.0 | 9.1 | 0.342 |
| 4-4550 | 4-5190 | 0.426 | 210.0 | -1.1 | 3.93 | 1.200 | 110.4 | 0.530 | 1.727 | 298.5 | 572.0 | 0.812 | 2.642 | 6.20 | 0.555 | 63.0 | 275.8 | 8.5 | 0.361 |
| 4-4550 | 4-5210 | 0.470 | 213.6 | -2.0 | 4.57 | 1.202 | 112.8 | 0.556 | 1.744 | 292.9 | 572.3 | 0.775 | 2.713 | 6.27 | 0.553 | 60.8 | 280.8 | 8.0 | 0.381 |
| 4-4560 | 4-4680 | 0.614 | 176.1 | 18.8 | 6.12 | 1.579 | 99.5 | 1.453 | -2.133 | 344.0 | 449.8 | 0.966 | --- | -5.69 | 1.148 | 145.3 | 266.6 | -3.7 | 1.004 |
| 4-4560 | 4-4700 | 0.483 | 176.1 | 24.0 | 6.71 | 1.451 | 97.3 | 1.080 | 12.098 | 345.9 | 457.1 | 0.973 | --- | -5.87 | 0.969 | 141.0 | 268.6 | -4.4 | 0.815 |
| 4-4560 | 4-4720 | 0.396 | 175.4 | 30.6 | 7.35 | 1.365 | 95.3 | 0.844 | 6.285 | 348.4 | 465.1 | 0.979 | --- | -6.13 | 0.839 | 136.3 | 270.4 | -5.3 | 0.672 |
| 4-4560 | 4-4740 | 0.341 | 174.2 | 38.3 | 8.06 | 1.306 | 93.5 | 0.688 | 3.155 | 351.3 | 473.7 | 0.984 | --- | -6.49 | 0.744 | 131.1 | 272.0 | -6.5 | 0.560 |
| 4-4560 | 4-4760 | 0.309 | 172.9 | 46.5 | 8.89 | 1.265 | 92.0 | 0.583 | 2.366 | 354.5 | 482.6 | 0.987 | --- | -6.97 | 0.675 | 125.6 | 273.2 | -8.1 | 0.470 |
| 4-4560 | 4-4780 | 0.296 | 172.3 | 54.5 | 9.88 | 1.236 | 90.8 | 0.511 | 2.021 | 357.6 | 491.5 | 0.988 | --- | -7.61 | 0.625 | 120.1 | 273.8 | -10.4 | 0.399 |
| 4-4560 | 4-4800 | 0.297 | 173.4 | 62.0 | 11.10 | 1.216 | 89.9 | 0.462 | 1.837 | 0.4 | 140.2 | --- | --- | -8.51 | 0.590 | 114.6 | 273.6 | -13.4 | 0.342 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4560 | 4-4820 | 0.311 | 178.2 | 68.6 | 12.69 | 1.202 | 89.2 | 0.428 | 1.729 | 2.7 | 148.5 | --- | --- | -9.78 | 0.567 | 109.4 | 272.4 | -17.6 | 0.299 |
| 4-4560 | 4-4840 | 0.339 | 191.0 | 74.1 | 14.90 | 1.192 | 88.8 | 0.406 | 1.663 | 4.3 | 158.2 | --- | --- | -11.67 | 0.551 | 104.6 | 269.9 | -23.4 | 0.271 |
| 4-4560 | 4-4860 | 0.391 | 218.6 | 77.3 | 18.24 | 1.186 | 88.5 | 0.391 | 1.621 | 5.3 | 163.2 | --- | --- | -14.70 | 0.543 | 100.2 | 265.9 | -31.0 | 0.263 |
| 4-4560 | 4-4880 | 0.488 | 256.9 | 75.2 | 24.02 | 1.182 | 88.4 | 0.381 | 1.596 | 5.7 | 169.6 | --- | --- | -20.17 | 0.538 | 96.3 | 260.3 | -40.1 | 0.286 |
| 4-4560 | 4-4900 | 0.703 | 285.4 | 65.8 | 36.33 | 1.179 | 88.4 | 0.376 | 1.582 | 5.9 | 175.5 | --- | --- | -32.17 | 0.537 | 92.7 | 253.8 | -48.1 | 0.384 |
| 4-4560 | 4-4940 | 0.910 | 50.7 | -71.4 | -48.40 | 1.178 | 90.7 | 0.372 | 1.575 | 357.3 | 544.1 | 0.988 | 2.161 | 53.18 | 0.540 | 87.6 | 253.7 | 48.2 | 0.579 |
| 4-4560 | 4-4960 | 0.456 | 107.2 | -60.2 | -22.42 | 1.179 | 90.9 | 0.374 | 1.578 | 356.7 | 548.6 | 0.988 | 2.168 | 27.50 | 0.543 | 84.9 | 251.7 | 46.9 | 0.342 |
| 4-4560 | 4-4980 | 0.294 | 127.1 | -45.6 | -12.63 | 1.180 | 91.5 | 0.377 | 1.585 | 354.5 | 552.4 | 0.988 | 2.182 | 18.04 | 0.546 | 82.7 | 248.9 | 39.0 | 0.267 |
| 4-4560 | 4-5000 | 0.227 | 140.8 | -31.9 | -7.72 | 1.181 | 92.3 | 0.382 | 1.594 | 351.5 | 555.7 | 0.986 | 2.202 | 13.45 | 0.549 | 80.7 | 247.5 | 31.5 | 0.242 |
| 4-4560 | 4-5020 | 0.201 | 152.6 | -20.2 | -4.75 | 1.183 | 93.3 | 0.388 | 1.605 | 348.1 | 558.7 | 0.983 | 2.227 | 10.81 | 0.552 | 78.9 | 247.5 | 25.5 | 0.236 |
| 4-4560 | 4-5040 | 0.195 | 163.4 | -11.2 | -2.74 | 1.185 | 94.4 | 0.395 | 1.617 | 344.3 | 561.3 | 0.978 | 2.258 | 9.13 | 0.555 | 77.2 | 248.7 | 21.0 | 0.240 |
| 4-4560 | 4-5060 | 0.201 | 173.1 | -5.0 | -1.25 | 1.187 | 95.7 | 0.404 | 1.631 | 340.2 | 563.6 | 0.972 | 2.289 | 7.99 | 0.557 | 75.6 | 250.7 | 17.6 | 0.248 |
| 4-4560 | 4-5080 | 0.215 | 181.8 | -1.3 | -0.09 | 1.190 | 97.0 | 0.414 | 1.645 | 335.8 | 565.5 | 0.963 | 2.326 | 7.19 | 0.558 | 74.1 | 253.4 | 15.0 | 0.259 |
| 4-4560 | 4-5100 | 0.235 | 189.4 | 0.7 | 0.87 | 1.192 | 98.5 | 0.426 | 1.660 | 331.3 | 567.3 | 0.952 | 2.367 | 6.61 | 0.559 | 72.5 | 256.7 | 13.1 | 0.272 |
| 4-4560 | 4-5120 | 0.258 | 196.0 | 1.5 | 1.68 | 1.194 | 100.1 | 0.440 | 1.676 | 326.5 | 568.7 | 0.939 | 2.412 | 6.19 | 0.559 | 71.0 | 260.4 | 11.5 | 0.285 |
| 4-4560 | 4-5140 | 0.285 | 201.8 | 1.5 | 2.40 | 1.197 | 101.8 | 0.455 | 1.692 | 321.6 | 570.0 | 0.922 | 2.461 | 5.89 | 0.559 | 69.4 | 264.5 | 10.3 | 0.300 |
| 4-4560 | 4-5160 | 0.316 | 206.9 | 1.0 | 3.05 | 1.199 | 103.6 | 0.472 | 1.708 | 316.5 | 571.0 | 0.902 | 2.514 | 5.68 | 0.558 | 67.8 | 268.8 | 9.4 | 0.315 |
| 4-4560 | 4-5180 | 0.349 | 211.4 | 0.2 | 3.65 | 1.201 | 105.6 | 0.491 | 1.725 | 311.3 | 571.8 | 0.878 | 2.571 | 5.55 | 0.557 | 66.1 | 273.4 | 8.6 | 0.331 |
| 4-4560 | 4-5200 | 0.386 | 215.5 | -0.7 | 4.23 | 1.204 | 107.7 | 0.512 | 1.742 | 306.0 | 572.3 | 0.851 | 2.633 | 5.49 | 0.556 | 64.3 | 278.2 | 7.9 | 0.347 |
| 4-4560 | 4-5220 | 0.426 | 219.2 | -1.8 | 4.79 | 1.206 | 109.9 | 0.534 | 1.759 | 300.5 | 572.7 | 0.819 | 2.698 | 5.48 | 0.554 | 62.3 | 283.1 | 7.4 | 0.365 |
| 4-4570 | 4-4690 | 0.550 | 174.0 | 21.6 | 6.15 | 1.540 | 94.3 | 1.339 | -2.895 | 352.5 | 450.9 | 0.982 | --- | -4.64 | 1.095 | 143.8 | 268.8 | -3.2 | 0.943 |
| 4-4570 | 4-4710 | 0.434 | 172.4 | 27.5 | 6.61 | 1.423 | 92.5 | 0.9990 | 3.009 | 354.9 | 458.9 | 0.985 | --- | -4.73 | 0.927 | 139.4 | 270.6 | -3.7 | 0.765 |
| 4-4570 | 4-4730 | 0.361 | 169.5 | 34.5 | 7.10 | 1.345 | 90.9 | 0.784 | 4.566 | 358.0 | 467.6 | 0.987 | --- | -4.87 | 0.805 | 134.4 | 272.2 | -4.5 | 0.629 |
| 4-4570 | 4-4750 | 0.317 | 165.7 | 41.9 | 7.63 | 1.291 | 89.4 | 0.644 | 2.774 | 1.6 | 116.8 | --- | --- | -5.07 | 0.717 | 129.0 | 273.5 | -5.4 | 0.522 |
| 4-4570 | 4-4770 | 0.294 | 161.5 | 49.1 | 8.23 | 1.254 | 88.2 | 0.552 | 2.198 | 5.2 | 126.2 | --- | --- | -5.38 | 0.653 | 123.4 | 274.3 | -6.7 | 0.438 |
| 4-4570 | 4-4790 | 0.284 | 157.4 | 55.6 | 8.92 | 1.228 | 87.2 | 0.490 | 1.927 | 8.5 | 135.4 | --- | --- | -5.74 | 0.608 | 117.8 | 274.5 | -8.4 | 0.369 |
| 4-4570 | 4-4810 | 0.283 | 154.3 | 61.3 | 9.74 | 1.210 | 86.5 | 0.448 | 1.778 | 11.3 | 144.2 | --- | --- | -6.27 | 0.578 | 112.4 | 273.9 | -10.7 | 0.315 |
| 4-4570 | 4-4830 | 0.290 | 153.3 | 66.3 | 10.75 | 1.198 | 86.0 | 0.421 | 1.690 | 13.4 | 152.3 | --- | --- | -7.00 | 0.557 | 107.3 | 272.3 | -13.7 | 0.273 |
| 4-4570 | 4-4850 | 0.304 | 155.7 | 71.1 | 12.07 | 1.190 | 85.8 | 0.402 | 1.635 | 14.7 | 159.8 | --- | --- | -8.04 | 0.545 | 102.6 | 269.5 | -17.8 | 0.243 |
| 4-4570 | 4-4870 | 0.328 | 164.3 | 75.9 | 13.89 | 1.184 | 85.7 | 0.390 | 1.602 | 15.2 | 166.5 | --- | --- | -9.58 | 0.538 | 98.4 | 265.6 | -23.1 | 0.226 |
| 4-4570 | 4-4890 | 0.369 | 188.3 | 80.2 | 16.64 | 1.181 | 85.9 | 0.383 | 1.583 | 15.0 | 172.5 | --- | --- | -12.07 | 0.536 | 94.6 | 260.8 | -29.8 | 0.225 |
| 4-4570 | 4-4910 | 0.446 | 241.1 | 80.7 | 21.39 | 1.180 | 86.1 | 0.378 | 1.574 | 14.2 | 177.9 | --- | --- | -16.56 | 0.536 | 91.3 | 255.9 | -37.9 | 0.248 |
| 4-4570 | 4-4930 | 0.624 | 284.6 | 72.5 | 31.70 | 1.179 | 86.4 | 0.376 | 1.571 | 13.1 | 182.8 | --- | 2.162 | -28.60 | 0.538 | 88.3 | 252.3 | -46.6 | 0.331 |
| 4-4570 | 4-4950 | 1.181 | 311.4 | 50.9 | 64.56 | 1.180 | 86.5 | 0.377 | 1.573 | 12.8 | 187.4 | --- | 2.166 | -59.20 | 0.541 | 85.5 | 254.2 | -46.8 | 0.635 |
| 4-4570 | 4-4970 | 0.856 | 58.4 | -66.7 | -45.12 | 1.181 | 88.9 | 0.376 | 1.579 | 4.1 | 190.0 | --- | 2.172 | 50.74 | 0.544 | 84.1 | 256.8 | 48.4 | 0.560 |
| 4-4570 | 4-4990 | 0.388 | 112.3 | -53.9 | -18.34 | 1.182 | 89.3 | 0.379 | 1.588 | 2.5 | 193.7 | --- | 2.189 | 24.22 | 0.547 | 81.9 | 251.3 | 43.9 | 0.320 |
| 4-4570 | 4-5010 | 0.247 | 133.2 | -36.6 | -9.39 | 1.184 | 90.1 | 0.383 | 1.599 | 359.5 | 558.9 | 0.987 | 2.211 | 15.53 | 0.551 | 80.1 | 249.0 | 34.1 | 0.259 |
| 4-4570 | 4-5030 | 0.198 | 148.1 | -21.2 | -5.07 | 1.186 | 91.1 | 0.388 | 1.611 | 355.9 | 559.6 | 0.986 | 2.238 | 11.48 | 0.554 | 78.4 | 249.0 | 26.3 | 0.243 |
| 4-4570 | 4-5050 | 0.184 | 160.9 | -9.6 | -2.50 | 1.188 | 92.3 | 0.394 | 1.625 | 351.9 | 562.0 | 0.984 | 2.268 | 9.19 | 0.556 | 76.9 | 250.3 | 20.9 | 0.243 |
| 4-4570 | 4-5070 | 0.186 | 172.4 | -2.1 | -0.78 | 1.190 | 93.5 | 0.402 | 1.640 | 347.7 | 564.2 | 0.980 | 2.299 | 7.74 | 0.558 | 75.4 | 252.6 | 17.0 | 0.249 |
| 4-4570 | 4-5090 | 0.197 | 182.5 | 2.1 | 0.48 | 1.193 | 94.9 | 0.411 | 1.655 | 343.3 | 566.0 | 0.975 | 2.335 | 6.77 | 0.559 | 74.0 | 255.5 | 14.2 | 0.258 |
| 4-4570 | 4-5110 | 0.214 | 191.4 | 4.0 | 1.47 | 1.195 | 96.3 | 0.422 | 1.671 | 338.6 | 567.6 | 0.967 | 2.375 | 6.08 | 0.560 | 72.7 | 258.9 | 12.1 | 0.269 |
| 4-4570 | 4-5130 | 0.235 | 199.0 | 4.4 | 2.27 | 1.198 | 97.8 | 0.433 | 1.687 | 333.8 | 569.0 | 0.956 | 2.419 | 5.59 | 0.560 | 71.3 | 262.8 | 10.6 | 0.281 |
| 4-4570 | 4-5150 | 0.259 | 205.5 | 4.0 | 2.95 | 1.200 | 99.5 | 0.447 | 1.704 | 328.9 | 570.2 | 0.943 | 2.466 | 5.23 | 0.560 | 69.9 | 266.9 | 9.4 | 0.294 |
| 4-4570 | 4-5170 | 0.287 | 211.2 | 3.1 | 3.55 | 1.202 | 101.2 | 0.462 | 1.721 | 323.8 | 571.2 | 0.927 | 2.516 | 4.97 | 0.559 | 68.4 | 271.2 | 8.4 | 0.307 |
| 4-4570 | 4-5190 | 0.317 | 216.1 | 1.8 | 4.09 | 1.205 | 103.1 | 0.478 | 1.739 | 318.7 | 572.0 | 0.907 | 2.570 | 4.79 | 0.558 | 66.9 | 275.8 | 7.7 | 0.321 |
| 4-4570 | 4-5210 | 0.350 | 220.6 | 0.5 | 4.59 | 1.207 | 105.1 | 0.496 | 1.756 | 313.4 | 572.6 | 0.884 | 2.628 | 4.67 | 0.557 | 65.3 | 280.5 | 7.0 | 0.336 |
| 4-4570 | 4-5230 | 0.386 | 224.6 | -0.9 | 5.06 | 1.210 | 107.1 | 0.516 | 1.774 | 308.1 | 573.1 | 0.858 | 2.689 | 4.61 | 0.555 | 63.6 | 285.4 | 6.5 | 0.351 |
| 4-4580 | 4-4700 | 0.504 | 169.2 | 25.3 | 6.25 | 1.500 | 88.9 | 1.216 | -4.549 | 2.0 | 93.1 | --- | --- | -3.56 | 1.037 | 142.4 | 270.5 | -2.6 | 0.881 |
| 4-4580 | 4-4720 | 0.407 | 165.3 | 31.5 | 6.60 | 1.394 | 87.5 | 0.9131 | 1.325 | 5.2 | 101.9 | --- | --- | -3.58 | 0.881 | 137.7 | 272.0 | -3.0 | 0.714 |
| 4-4580 | 4-4740 | 0.349 | 159.9 | 38.1 | 6.96 | 1.322 | 86.2 | 0.724 | 3.556 | 9.1 | 111.4 | --- | --- | -3.64 | 0.768 | 132.5 | 273.3 | -3.5 | 0.585 |
| 4-4580 | 4-4760 | 0.316 | 153.8 | 44.2 | 7.35 | 1.274 | 85.1 | 0.604 | 2.461 | 13.2 | 121.2 | --- | --- | -3.74 | 0.687 | 126.9 | 274.2 | -4.2 | 0.485 |
| 4-4580 | 4-4780 | 0.299 | 147.6 | 49.4 | 7.77 | 1.241 | 84.1 | 0.525 | 2.044 | 17.1 | 131.0 | --- | --- | -3.89 | 0.630 | 121.2 | 274.6 | -5.2 | 0.405 |
| 4-4580 | 4-4800 | 0.292 | 142.2 | 53.6 | 8.23 | 1.219 | 83.5 | 0.474 | 1.836 | 20.5 | 140.3 | --- | --- | -4.10 | 0.590 | 115.5 | 274.3 | -6.4 | 0.342 |
| 4-4580 | 4-4820 | 0.291 | 138.1 | 57.1 | 8.77 | 1.203 | 83.0 | 0.441 | 1.718 | 23.1 | 149.0 | --- | --- | -4.39 | 0.583 | 110.0 | 273.1 | -8.0 | 0.291 |
| 4-4580 | 4-4840 | 0.293 | 135.9 | 60.3 | 9.40 | 1.193 | 82.8 | 0.418 | 1.648 | 24.8 | 156.8 | --- | --- | -4.79 | 0.546 | 105.0 | 270.8 | -10.1 | 0.252 |
| 4-4580 | 4-4860 | 0.298 | 135.7 | 63.5 | 10.18 | 1.186 | 82.7 | 0.404 | 1.606 | 25.6 | 163.8 | --- | --- | -5.35 | 0.537 | 100.4 | 267.5 | -12.7 | 0.224 |
| 4-4580 | 4-4880 | 0.307 | 137.9 | 67.1 | 11.19 | 1.182 | 82.8 | 0.394 | 1.581 | 25.6 | 170.1 | --- | --- | -6.13 | 0.533 | 96.3 | 263.3 | -16.0 | 0.205 |
| 4-4580 | 4-4900 | 0.322 | 143.4 | 71.2 | 12.58 | 1.180 | 83.1 | 0.388 | 1.568 | 24.8 | 175.6 | --- | --- | -7.31 | 0.532 | 92.8 | 258.6 | -20.0 | 0.197 |
| 4-4580 | 4-4920 | 0.349 | 155.4 | 76.1 | 14.68 | 1.179 | 83.6 | 0.384 | 1.563 | 23.4 | 180.6 | --- | 2.164 | -9.20 | 0.533 | 89.7 | 254.1 | -25.2 | 0.201 |
| 4-4580 | 4-4940 | 0.403 | 187.9 | 81.3 | 18.32 | 1.179 | 84.1 | 0.382 | 1.565 | 21.5 | 185.0 | --- | 2.163 | -12.64 | 0.536 | 86.9 | 250.7 | -32.0 | 0.221 |
| 4-4580 | 4-4960 | 0.535 | 266.6 | 79.8 | 26.32 | 1.180 | 84.7 | 0.382 | 1.570 | 19.2 | 188.9 | --- | 2.170 | -20.44 | 0.540 | 84.5 | 249.7 | -41.6 | 0.283 |
| 4-4580 | 4-4980 | 1.031 | 313.6 | 59.8 | 55.14 | 1.182 | 85.2 | 0.384 | 1.579 | 17.4 | 192.7 | --- | 2.184 | -49.05 | 0.544 | 82.3 | 256.8 | -48.1 | 0.547 |
| 4-4580 | 4-5000 | 0.768 | 10.0 | -62.5 | -39.86 | 1.184 | 87.2 | 0.383 | 1.590 | 10.1 | 195.1 | --- | 2.198 | 46.15 | 0.548 | 81.0 | 259.4 | 48.3 | 0.523 |
| 4-4580 | 4-5020 | 0.310 | 122.3 | -44.1 | -13.33 | 1.186 | 87.9 | 0.387 | 1.602 | 7.5 | 198.1 | --- | 2.222 | 19.82 | 0.551 | 79.3 | 251.4 | 38.5 | 0.295 |
| 4-4580 | 4-5040 | 0.207 | 143.0 | -22.4 | -5.71 | 1.188 | 88.9 | 0.391 | 1.616 | 3.8 | 200.6 | --- | 2.248 | 12.41 | 0.554 | 77.8 | 250.5 | 27.4 | 0.253 |
| 4-4580 | 4-5060 | 0.181 | 158.1 | -6.5 | -2.19 | 1.191 | 90.1 | 0.396 | 1.632 | 359.7 | 562.8 | 0.985 | 2.278 | 9.09 | 0.557 | 76.4 | 251.9 | 20.3 | 0.246 |
| 4-4580 | 4-5080 | 0.179 | 171.1 | 2.9 | -0.13 | 1.193 | 91.3 | 0.403 | 1.648 | 355.3 | 564.8 | 0.984 | 2.311 | 7.25 | 0.559 | 75.1 | 254.4 | 15.8 | 0.250 |
| 4-4580 | 4-5100 | 0.187 | 182.5 | 7.5 | 1.23 | 1.196 | 92.7 | 0.410 | 1.664 | 350.8 | 566.5 | 0.982 | 2.347 | 6.10 | 0.560 | 73.9 | 257.5 | 12.8 | 0.258 |
| 4-4580 | 4-5120 | 0.201 | 192.5 | 9.2 | 2.23 | 1.198 | 94.1 | 0.419 | 1.681 | 346.0 | 568.0 | 0.977 | 2.386 | 5.32 | 0.561 | 72.6 | 261.1 | 10.7 | 0.268 |
| 4-4580 | 4-5140 | 0.218 | 201.0 | 9.1 | 3.00 | 1.201 | 95.6 | 0.429 | 1.699 | 341.2 | 569.4 | 0.969 | 2.428 | 4.78 | 0.561 | 71.4 | 265.0 | 9.1 | 0.279 |
| 4-4580 | 4-5160 | 0.239 | 208.4 | 8.0 | 3.62 | 1.203 | 97.2 | 0.441 | 1.716 | 336.2 | 570.5 | 0.960 | 2.473 | 4.38 | 0.561 | 70.2 | 269.2 | 8.0 | 0.290 |
| 4-4580 | 4-5180 | 0.263 | 214.7 | 6.4 | 4.15 | 1.206 | 98.9 | 0.454 | 1.734 | 331.2 | 571.5 | 0.947 | 2.521 | 4.10 | 0.560 | 68.9 | 273.6 | 7.1 | 0.302 |
| 4-4580 | 4-5200 | 0.290 | 220.2 | 4.6 | 4.61 | 1.208 | 100.7 | 0.468 | 1.752 | 326.1 | 572.2 | 0.932 | 2.572 | 3.89 | 0.559 | 67.5 | 278.1 | 6.4 | 0.314 |
| 4-4580 | 4-5220 | 0.319 | 225.1 | 2.7 | 5.03 | 1.210 | 102.5 | 0.484 | 1.770 | 320.9 | 572.9 | 0.913 | 2.627 | 3.74 | 0.558 | 66.1 | 282.8 | 5.9 | 0.326 |
| 4-4580 | 4-5240 | 0.351 | 229.4 | 0.8 | 5.41 | 1.213 | 104.5 | 0.501 | 1.788 | 315.6 | 573.4 | 0.891 | 2.684 | 3.64 | 0.556 | 64.6 | 287.6 | 5.4 | 0.339 |
| 4-4590 | 4-4690 | 0.623 | 166.1 | 23.5 | 6.21 | 1.608 | 84.1 | 1.539 | -1.811 | 9.7 | 87.9 | --- | --- | -2.48 | 1.185 | 145.5 | 270.3 | -1.6 | 1.036 |
| 4-4590 | 4-4710 | 0.486 | 161.6 | 29.0 | 6.45 | 1.458 | 83.3 | 1.0911 | 0.641 | 12.9 | 96.7 | --- | --- | -2.43 | 0.977 | 141.1 | 271.6 | -1.8 | 0.820 |
| 4-4590 | 4-4730 | 0.407 | 155.6 | 34.6 | 6.69 | 1.362 | 82.3 | 0.830 | 5.672 | 17.0 | 106.4 | --- | --- | -2.41 | 0.831 | 136.1 | 272.8 | -2.1 | 0.663 |
| 4-4590 | 4-4750 | 0.362 | 148.7 | 39.7 | 6.93 | 1.299 | 81.3 | 0.670 | 2.900 | 21.6 | 116.7 | --- | --- | -2.42 | 0.728 | 130.6 | 273.7 | -2.5 | 0.543 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4590 | 4-4770 | 0.338 | 142.0 | 43.8 | 7.18 | 1.257 | 80.5 | 0.570 | 2.205 | 26.2 | 127.1 | --- | --- | -2.46 | 0.655 | 124.7 | 274.1 | -2.9 | 0.449 |
| 4-4590 | 4-4790 | 0.326 | 136.2 | 46.9 | 7.44 | 1.228 | 80.0 | 0.507 | 1.905 | 30.2 | 137.0 | --- | --- | -2.52 | 0.604 | 118.8 | 273.9 | -3.6 | 0.375 |
| 4-4590 | 4-4810 | 0.319 | 131.8 | 49.2 | 7.73 | 1.208 | 79.6 | 0.466 | 1.748 | 33.3 | 146.1 | --- | --- | -2.62 | 0.569 | 113.0 | 273.0 | -4.3 | 0.316 |
| 4-4590 | 4-4830 | 0.316 | 129.0 | 51.2 | 8.05 | 1.196 | 79.4 | 0.440 | 1.658 | 35.4 | 154.4 | --- | --- | -2.76 | 0.547 | 107.5 | 271.0 | -5.3 | 0.270 |
| 4-4590 | 4-4850 | 0.314 | 127.8 | 53.0 | 8.41 | 1.187 | 79.3 | 0.423 | 1.605 | 36.6 | 161.7 | --- | --- | -2.95 | 0.534 | 102.5 | 268.0 | -6.5 | 0.236 |
| 4-4590 | 4-4870 | 0.313 | 127.9 | 54.9 | 8.84 | 1.182 | 79.5 | 0.411 | 1.574 | 36.8 | 168.1 | --- | --- | -3.21 | 0.528 | 98.1 | 264.1 | -8.0 | 0.211 |
| 4-4590 | 4-4890 | 0.313 | 129.5 | 57.1 | 9.36 | 1.179 | 79.8 | 0.403 | 1.558 | 36.1 | 173.8 | --- | --- | -3.58 | 0.526 | 94.2 | 259.6 | -9.7 | 0.195 |
| 4-4590 | 4-4910 | 0.314 | 132.5 | 59.7 | 10.04 | 1.178 | 80.3 | 0.398 | 1.551 | 34.8 | 178.8 | --- | --- | -4.11 | 0.527 | 90.8 | 255.1 | -11.7 | 0.187 |
| 4-4590 | 4-4930 | 0.319 | 137.4 | 63.0 | 10.98 | 1.178 | 80.9 | 0.394 | 1.551 | 32.8 | 183.3 | --- | 2.163 | -4.90 | 0.530 | 87.9 | 251.2 | -14.1 | 0.186 |
| 4-4590 | 4-4950 | 0.331 | 145.0 | 67.1 | 12.39 | 1.179 | 81.6 | 0.392 | 1.556 | 30.4 | 187.3 | --- | 2.167 | -6.16 | 0.534 | 85.4 | 248.3 | -17.3 | 0.192 |
| 4-4590 | 4-4970 | 0.359 | 158.5 | 72.8 | 14.82 | 1.180 | 82.4 | 0.391 | 1.565 | 27.5 | 190.8 | --- | 2.177 | -8.46 | 0.539 | 83.2 | 246.8 | -22.4 | 0.207 |
| 4-4590 | 4-4990 | 0.439 | 197.1 | 80.2 | 20.21 | 1.182 | 83.2 | 0.391 | 1.576 | 24.3 | 194.0 | --- | 2.193 | -13.70 | 0.543 | 81.3 | 247.4 | -31.6 | 0.243 |
| 4-4590 | 4-5010 | 0.807 | 305.6 | 71.5 | 41.75 | 1.185 | 84.1 | 0.393 | 1.590 | 21.2 | 197.0 | --- | 2.214 | -35.11 | 0.547 | 79.6 | 256.1 | -46.8 | 0.425 |
| 4-4590 | 4-5030 | 0.626 | 87.3 | -58.0 | -31.49 | 1.187 | 85.7 | 0.393 | 1.604 | 15.3 | 199.2 | --- | 2.235 | 38.27 | 0.551 | 78.4 | 260.5 | 47.0 | 0.457 |
| 4-4590 | 4-5050 | 0.234 | 137.2 | -26.4 | -7.36 | 1.190 | 86.7 | 0.396 | 1.620 | 11.8 | 201.6 | --- | 2.263 | 14.28 | 0.555 | 77.0 | 252.3 | 29.6 | 0.270 |
| 4-4590 | 4-5070 | 0.185 | 156.2 | -1.6 | -1.66 | 1.192 | 87.9 | 0.400 | 1.637 | 7.5 | 203.6 | --- | 2.293 | 8.71 | 0.557 | 75.8 | 253.4 | 19.1 | 0.250 |
| 4-4590 | 4-5090 | 0.181 | 170.3 | 10.4 | 0.86 | 1.195 | 89.1 | 0.405 | 1.655 | 3.0 | 205.5 | --- | 2.326 | 6.33 | 0.559 | 74.6 | 256.1 | 13.6 | 0.252 |
| 4-4590 | 4-5110 | 0.187 | 182.5 | 15.2 | 2.31 | 1.198 | 90.5 | 0.412 | 1.673 | 358.3 | 567.1 | 0.984 | 2.361 | 5.02 | 0.560 | 73.5 | 259.4 | 10.5 | 0.259 |
| 4-4590 | 4-5130 | 0.197 | 193.1 | 16.4 | 3.26 | 1.200 | 91.9 | 0.419 | 1.691 | 353.5 | 568.5 | 0.982 | 2.399 | 4.21 | 0.561 | 72.5 | 263.2 | 8.4 | 0.268 |
| 4-4590 | 4-5150 | 0.211 | 202.4 | 15.6 | 3.94 | 1.203 | 93.4 | 0.428 | 1.709 | 348.6 | 569.7 | 0.978 | 2.440 | 3.67 | 0.561 | 71.4 | 267.2 | 7.1 | 0.277 |
| 4-4590 | 4-5170 | 0.227 | 210.4 | 13.7 | 4.47 | 1.206 | 95.0 | 0.437 | 1.728 | 343.8 | 570.8 | 0.972 | 2.483 | 3.29 | 0.561 | 70.3 | 271.5 | 6.1 | 0.287 |
| 4-4590 | 4-5190 | 0.246 | 217.4 | 11.3 | 4.90 | 1.208 | 96.6 | 0.448 | 1.746 | 338.6 | 571.7 | 0.963 | 2.529 | 3.02 | 0.560 | 69.1 | 275.9 | 5.3 | 0.297 |
| 4-4590 | 4-5210 | 0.268 | 223.5 | 8.7 | 5.26 | 1.211 | 98.3 | 0.461 | 1.765 | 333.5 | 572.5 | 0.951 | 2.578 | 2.82 | 0.559 | 68.0 | 280.5 | 4.7 | 0.308 |
| 4-4590 | 4-5230 | 0.293 | 228.8 | 6.1 | 5.58 | 1.213 | 100.1 | 0.475 | 1.783 | 328.3 | 573.1 | 0.937 | 2.629 | 2.67 | 0.558 | 66.7 | 285.1 | 4.3 | 0.318 |
| 4-4590 | 4-5250 | 0.321 | 233.6 | 3.7 | 5.86 | 1.215 | 101.9 | 0.490 | 1.802 | 323.2 | 573.6 | 0.920 | 2.684 | 2.56 | 0.557 | 65.4 | 289.9 | 3.9 | 0.329 |
| 4-4600 | 4-4700 | 0.615 | 159.0 | 26.6 | 6.62 | 1.550 | 77.8 | 1.348 | -2.713 | 21.3 | 92.1 | --- | --- | -1.26 | 1.107 | 144.8 | 271.0 | -0.8 | 0.963 |
| 4-4600 | 4-4720 | 0.500 | 152.9 | 31.5 | 6.75 | 1.416 | 77.4 | 0.972 | 33.856 | 25.6 | 102.0 | --- | --- | -1.22 | 0.913 | 140.0 | 272.0 | -0.9 | 0.761 |
| 4-4600 | 4-4740 | 0.436 | 146.0 | 35.8 | 6.87 | 1.330 | 76.8 | 0.756 | 3.789 | 30.7 | 112.8 | --- | --- | -1.20 | 0.779 | 134.6 | 272.8 | -1.1 | 0.614 |
| 4-4600 | 4-4760 | 0.400 | 139.4 | 39.0 | 6.99 | 1.275 | 76.3 | 0.627 | 2.445 | 35.9 | 123.8 | --- | --- | -1.19 | 0.685 | 128.7 | 273.2 | -1.3 | 0.502 |
| 4-4600 | 4-4780 | 0.381 | 133.9 | 41.3 | 7.11 | 1.238 | 75.9 | 0.549 | 1.993 | 40.5 | 134.3 | --- | --- | -1.19 | 0.620 | 122.5 | 273.0 | -1.5 | 0.416 |
| 4-4600 | 4-4800 | 0.369 | 129.8 | 42.9 | 7.24 | 1.213 | 75.6 | 0.500 | 1.781 | 44.2 | 143.9 | --- | --- | -1.21 | 0.575 | 116.3 | 272.1 | -1.8 | 0.348 |
| 4-4600 | 4-4820 | 0.362 | 127.2 | 44.1 | 7.37 | 1.197 | 75.5 | 0.469 | 1.665 | 46.7 | 152.5 | --- | --- | -1.24 | 0.547 | 110.3 | 270.3 | -2.2 | 0.295 |
| 4-4600 | 4-4840 | 0.355 | 125.8 | 45.2 | 7.51 | 1.187 | 75.6 | 0.448 | 1.600 | 48.1 | 160.0 | --- | --- | -1.28 | 0.529 | 104.8 | 267.6 | -2.6 | 0.254 |
| 4-4600 | 4-4860 | 0.349 | 125.5 | 46.1 | 7.67 | 1.181 | 75.8 | 0.435 | 1.562 | 48.5 | 166.6 | --- | --- | -1.35 | 0.521 | 99.9 | 263.9 | -3.1 | 0.225 |
| 4-4600 | 4-4880 | 0.343 | 126.3 | 47.2 | 7.85 | 1.177 | 76.2 | 0.425 | 1.542 | 47.9 | 172.4 | --- | --- | -1.44 | 0.517 | 95.6 | 259.6 | -3.6 | 0.205 |
| 4-4600 | 4-4900 | 0.337 | 127.9 | 48.3 | 8.06 | 1.175 | 76.7 | 0.418 | 1.533 | 46.6 | 177.4 | --- | --- | -1.57 | 0.518 | 91.8 | 255.2 | -4.2 | 0.193 |
| 4-4600 | 4-4920 | 0.330 | 130.4 | 49.6 | 8.32 | 1.175 | 77.3 | 0.413 | 1.533 | 44.7 | 181.9 | --- | 2.165 | -1.75 | 0.521 | 88.6 | 251.2 | -4.9 | 0.187 |
| 4-4600 | 4-4940 | 0.324 | 133.8 | 51.2 | 8.65 | 1.176 | 78.1 | 0.409 | 1.538 | 42.3 | 185.9 | --- | 2.168 | -2.01 | 0.526 | 85.9 | 248.1 | -5.6 | 0.187 |
| 4-4600 | 4-4960 | 0.318 | 138.3 | 53.1 | 9.11 | 1.178 | 78.9 | 0.406 | 1.547 | 39.4 | 189.5 | --- | 2.174 | -2.39 | 0.531 | 83.6 | 246.0 | -6.6 | 0.191 |
| 4-4600 | 4-4980 | 0.316 | 144.1 | 55.7 | 9.79 | 1.180 | 79.8 | 0.404 | 1.558 | 36.1 | 192.7 | --- | 2.188 | -3.00 | 0.536 | 81.7 | 245.2 | -8.1 | 0.198 |
| 4-4600 | 4-5000 | 0.320 | 152.1 | 59.3 | 10.97 | 1.182 | 80.8 | 0.403 | 1.573 | 32.4 | 195.6 | --- | 2.206 | -4.11 | 0.542 | 80.0 | 245.5 | -10.6 | 0.208 |
| 4-4600 | 4-5020 | 0.346 | 165.3 | 65.8 | 13.55 | 1.185 | 81.9 | 0.402 | 1.588 | 28.6 | 198.2 | --- | 2.227 | -6.63 | 0.546 | 78.5 | 247.0 | -16.0 | 0.224 |
| 4-4600 | 4-5040 | 0.511 | 222.5 | 79.4 | 24.33 | 1.188 | 83.0 | 0.403 | 1.605 | 24.5 | 200.5 | --- | 2.252 | -17.34 | 0.550 | 77.2 | 252.0 | -33.6 | 0.289 |
| 4-4600 | 4-5060 | 0.389 | 117.3 | -46.0 | -17.29 | 1.191 | 84.4 | 0.404 | 1.623 | 19.6 | 202.5 | --- | 2.279 | 24.35 | 0.554 | 76.1 | 258.0 | 39.7 | 0.347 |
| 4-4600 | 4-5080 | 0.197 | 157.0 | 6.9 | -0.41 | 1.194 | 85.6 | 0.407 | 1.642 | 15.3 | 204.4 | --- | 2.310 | 7.54 | 0.557 | 75.0 | 254.8 | 16.2 | 0.253 |
| 4-4600 | 4-5100 | 0.197 | 171.9 | 21.6 | 2.71 | 1.196 | 86.9 | 0.411 | 1.660 | 10.7 | 206.1 | --- | 2.342 | 4.48 | 0.559 | 74.0 | 257.7 | 9.5 | 0.253 |
| 4-4600 | 4-5120 | 0.202 | 183.7 | 25.5 | 4.04 | 1.199 | 88.3 | 0.415 | 1.680 | 5.9 | 207.6 | --- | 2.377 | 3.22 | 0.560 | 73.1 | 261.3 | 6.6 | 0.260 |
| 4-4600 | 4-5140 | 0.207 | 194.1 | 25.6 | 4.78 | 1.202 | 89.7 | 0.421 | 1.699 | 1.0 | 208.9 | --- | 2.415 | 2.55 | 0.561 | 72.1 | 265.2 | 5.1 | 0.269 |
| 4-4600 | 4-5160 | 0.215 | 203.4 | 23.8 | 5.27 | 1.205 | 91.2 | 0.428 | 1.718 | 356.1 | 570.0 | 0.983 | 2.454 | 2.13 | 0.561 | 71.2 | 269.4 | 4.1 | 0.277 |
| 4-4600 | 4-5180 | 0.225 | 211.8 | 21.0 | 5.61 | 1.208 | 92.7 | 0.436 | 1.738 | 351.1 | 571.1 | 0.980 | 2.496 | 1.85 | 0.561 | 70.2 | 273.7 | 3.4 | 0.286 |
| 4-4600 | 4-5200 | 0.239 | 219.2 | 17.7 | 5.88 | 1.210 | 94.3 | 0.445 | 1.757 | 346.0 | 571.9 | 0.974 | 2.540 | 1.66 | 0.560 | 69.2 | 278.2 | 2.9 | 0.295 |
| 4-4600 | 4-5220 | 0.255 | 225.8 | 14.2 | 6.09 | 1.213 | 95.9 | 0.456 | 1.777 | 340.9 | 572.7 | 0.967 | 2.587 | 1.52 | 0.559 | 68.2 | 282.8 | 2.6 | 0.304 |
| 4-4600 | 4-5240 | 0.274 | 231.7 | 10.9 | 6.27 | 1.215 | 97.6 | 0.468 | 1.796 | 335.8 | 573.3 | 0.956 | 2.636 | 1.41 | 0.558 | 67.1 | 287.5 | 2.3 | 0.313 |
| 4-4600 | 4-5260 | 0.297 | 236.9 | 7.7 | 6.43 | 1.218 | 99.4 | 0.481 | 1.815 | 330.7 | 573.9 | 0.943 | 2.687 | 1.33 | 0.557 | 66.0 | 292.2 | 2.1 | 0.322 |
| 4-4610 | 4-4710 | 0.641 | 151.6 | 28.7 | 7.17 | 1.492 | 71.1 | 1.171 | -5.184 | 34.9 | 98.4 | --- | --- | 0.08 | 1.026 | 144.4 | 270.9 | 0.1 | 0.894 |
| 4-4610 | 4-4730 | 0.543 | 145.2 | 32.3 | 7.16 | 1.373 | 71.3 | 0.869 | 6.694 | 40.4 | 109.6 | --- | --- | 0.07 | 0.847 | 139.1 | 271.5 | 0.1 | 0.706 |
| 4-4610 | 4-4750 | 0.489 | 139.0 | 35.0 | 7.15 | 1.298 | 71.2 | 0.700 | 2.859 | 46.3 | 121.1 | --- | --- | 0.07 | 0.725 | 133.2 | 271.8 | 0.1 | 0.569 |
| 4-4610 | 4-4770 | 0.458 | 134.0 | 36.9 | 7.14 | 1.250 | 71.1 | 0.601 | 2.116 | 51.6 | 132.2 | --- | --- | 0.07 | 0.640 | 126.8 | 271.6 | 0.1 | 0.466 |
| 4-4610 | 4-4790 | 0.439 | 130.3 | 38.0 | 7.14 | 1.218 | 71.0 | 0.542 | 1.819 | 55.7 | 142.3 | --- | --- | 0.07 | 0.582 | 120.2 | 270.7 | 0.1 | 0.387 |
| 4-4610 | 4-4810 | 0.425 | 127.9 | 38.8 | 7.13 | 1.198 | 71.1 | 0.506 | 1.670 | 58.6 | 151.2 | --- | --- | 0.07 | 0.545 | 113.6 | 269.0 | 0.1 | 0.325 |
| 4-4610 | 4-4830 | 0.415 | 126.6 | 39.4 | 7.12 | 1.185 | 71.4 | 0.482 | 1.589 | 60.2 | 158.9 | --- | --- | 0.07 | 0.522 | 107.5 | 266.4 | 0.1 | 0.279 |
| 4-4610 | 4-4850 | 0.405 | 126.2 | 39.9 | 7.11 | 1.177 | 71.7 | 0.466 | 1.543 | 60.6 | 165.5 | --- | --- | 0.07 | 0.510 | 102.0 | 262.9 | 0.1 | 0.245 |
| 4-4610 | 4-4870 | 0.395 | 126.7 | 40.3 | 7.10 | 1.173 | 72.2 | 0.454 | 1.519 | 60.1 | 171.3 | --- | --- | 0.07 | 0.506 | 97.1 | 258.8 | 0.2 | 0.221 |
| 4-4610 | 4-4890 | 0.384 | 127.8 | 40.7 | 7.10 | 1.171 | 72.8 | 0.445 | 1.509 | 58.9 | 176.4 | --- | --- | 0.08 | 0.506 | 92.9 | 254.6 | 0.2 | 0.206 |
| 4-4610 | 4-4910 | 0.373 | 129.5 | 41.1 | 7.09 | 1.171 | 73.5 | 0.438 | 1.508 | 56.9 | 180.8 | --- | 2.168 | 0.08 | 0.509 | 89.4 | 250.6 | 0.2 | 0.198 |
| 4-4610 | 4-4930 | 0.360 | 131.8 | 41.5 | 7.07 | 1.172 | 74.3 | 0.432 | 1.513 | 54.5 | 184.8 | --- | 2.166 | 0.09 | 0.514 | 86.4 | 247.4 | 0.2 | 0.196 |
| 4-4610 | 4-4950 | 0.348 | 134.6 | 41.8 | 7.06 | 1.174 | 75.2 | 0.427 | 1.522 | 51.6 | 188.4 | --- | 2.173 | 0.10 | 0.521 | 83.9 | 245.3 | 0.3 | 0.197 |
| 4-4610 | 4-4970 | 0.334 | 138.0 | 42.2 | 7.04 | 1.176 | 76.2 | 0.423 | 1.535 | 48.3 | 191.6 | --- | 2.185 | 0.12 | 0.527 | 81.8 | 244.3 | 0.3 | 0.202 |
| 4-4610 | 4-4990 | 0.321 | 141.9 | 42.4 | 7.01 | 1.179 | 77.2 | 0.420 | 1.550 | 44.8 | 194.5 | --- | 2.201 | 0.14 | 0.533 | 80.0 | 244.4 | 0.3 | 0.209 |
| 4-4610 | 4-5010 | 0.307 | 146.4 | 42.5 | 6.97 | 1.182 | 78.3 | 0.417 | 1.567 | 40.7 | 197.1 | --- | 2.221 | 0.17 | 0.539 | 78.5 | 245.3 | 0.4 | 0.216 |
| 4-4610 | 4-5030 | 0.292 | 151.6 | 42.4 | 6.91 | 1.185 | 79.5 | 0.416 | 1.585 | 36.6 | 199.4 | --- | 2.244 | 0.23 | 0.544 | 77.2 | 247.1 | 0.6 | 0.224 |
| 4-4610 | 4-5050 | 0.278 | 157.2 | 41.8 | 6.77 | 1.188 | 80.7 | 0.415 | 1.605 | 32.2 | 201.5 | --- | 2.270 | 0.37 | 0.549 | 76.1 | 249.5 | 0.9 | 0.232 |
| 4-4610 | 4-5070 | 0.261 | 162.8 | 39.2 | 6.21 | 1.191 | 82.0 | 0.415 | 1.624 | 27.7 | 203.4 | --- | 2.298 | 0.93 | 0.553 | 75.1 | 252.4 | 2.1 | 0.240 |
| 4-4610 | 4-5090 | 0.279 | 175.9 | 48.4 | 9.02 | 1.194 | 83.3 | 0.416 | 1.644 | 23.1 | 205.2 | --- | 2.329 | -1.89 | 0.556 | 74.2 | 255.8 | -4.1 | 0.249 |
| 4-4610 | 4-5110 | 0.254 | 180.8 | 42.3 | 7.60 | 1.197 | 84.6 | 0.418 | 1.665 | 18.3 | 206.7 | --- | 2.361 | -0.47 | 0.558 | 73.3 | 259.4 | -1.0 | 0.256 |
| 4-4610 | 4-5130 | 0.244 | 188.6 | 39.6 | 7.40 | 1.200 | 86.0 | 0.421 | 1.686 | 13.4 | 208.1 | --- | 2.396 | -0.27 | 0.560 | 72.5 | 263.3 | -0.6 | 0.264 |
| 4-4610 | 4-5150 | 0.239 | 196.9 | 36.7 | 7.31 | 1.203 | 87.5 | 0.426 | 1.706 | 8.5 | 209.3 | --- | 2.432 | -0.20 | 0.560 | 71.7 | 267.4 | -0.4 | 0.272 |
| 4-4610 | 4-5170 | 0.237 | 205.1 | 33.3 | 7.27 | 1.206 | 88.9 | 0.431 | 1.727 | 3.5 | 210.4 | --- | 2.471 | -0.15 | 0.561 | 70.9 | 271.6 | -0.3 | 0.279 |
| 4-4610 | 4-5190 | 0.238 | 213.0 | 29.5 | 7.24 | 1.209 | 90.5 | 0.437 | 1.747 | 358.5 | 571.3 | 0.983 | 2.511 | -0.13 | 0.561 | 70.1 | 276.1 | -0.2 | 0.287 |
| 4-4610 | 4-5210 | 0.243 | 220.4 | 25.4 | 7.22 | 1.212 | 92.0 | 0.445 | 1.768 | 353.4 | 572.2 | 0.981 | 2.554 | -0.11 | 0.560 | 69.2 | 280.6 | -0.2 | 0.294 |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4610 | 4-5230 | 0.252 | 227.2 | 21.1 | 7.20 | 1.214 | 93.6 | 0.453 | 1.788 | 348.4 | 572.9 | 0.977 | 2.598 | -0.10 | 0.559 | 68.3 | 285.2 | -0.2 | 0.302 |
| 4-4610 | 4-5250 | 0.265 | 233.5 | 16.9 | 7.19 | 1.217 | 95.3 | 0.463 | 1.808 | 343.3 | 573.5 | 0.970 | 2.645 | -0.09 | 0.558 | 67.4 | 289.8 | -0.2 | 0.309 |
| 4-4610 | 4-5270 | 0.281 | 239.2 | 13.0 | 7.18 | 1.219 | 96.9 | 0.474 | 1.827 | 338.3 | 574.1 | 0.961 | 2.694 | -0.08 | 0.557 | 66.4 | 294.5 | -0.1 | 0.317 |
| 4-4620 | 4-4740 | 0.610 | 140.1 | 31.7 | 7.72 | 1.330 | 64.9 | 0.794 | 3.797 | 57.4 | 119.3 | --- | --- | 1.50 | 0.780 | 138.5 | 270.1 | 1.2 | 0.658 |
| 4-4620 | 4-4760 | 0.560 | 135.5 | 33.3 | 7.55 | 1.265 | 65.3 | 0.668 | 2.312 | 63.3 | 131.0 | --- | --- | 1.43 | 0.668 | 131.9 | 269.8 | 1.3 | 0.531 |
| 4-4620 | 4-4780 | 0.528 | 132.1 | 34.2 | 7.40 | 1.224 | 65.7 | 0.597 | 1.870 | 67.9 | 141.5 | --- | --- | 1.38 | 0.592 | 124.9 | 268.8 | 1.5 | 0.436 |
| 4-4620 | 4-4800 | 0.507 | 130.0 | 34.8 | 7.25 | 1.198 | 66.1 | 0.554 | 1.674 | 71.0 | 150.5 | --- | --- | 1.35 | 0.543 | 117.7 | 267.1 | 1.8 | 0.364 |
| 4-4620 | 4-4820 | 0.490 | 128.9 | 35.1 | 7.11 | 1.182 | 66.5 | 0.526 | 1.573 | 72.7 | 158.2 | --- | --- | 1.33 | 0.513 | 110.9 | 264.6 | 2.1 | 0.310 |
| 4-4620 | 4-4840 | 0.475 | 128.5 | 35.3 | 6.97 | 1.172 | 67.1 | 0.507 | 1.518 | 73.2 | 164.9 | --- | --- | 1.33 | 0.497 | 104.5 | 261.3 | 2.4 | 0.270 |
| 4-4620 | 4-4860 | 0.461 | 128.9 | 35.4 | 6.82 | 1.167 | 67.7 | 0.493 | 1.490 | 72.7 | 170.6 | --- | --- | 1.34 | 0.490 | 98.9 | 257.4 | 2.7 | 0.242 |
| 4-4620 | 4-4880 | 0.447 | 129.8 | 35.4 | 6.67 | 1.165 | 68.4 | 0.481 | 1.478 | 71.3 | 175.5 | --- | --- | 1.37 | 0.489 | 94.1 | 253.3 | 3.0 | 0.224 |
| 4-4620 | 4-4900 | 0.432 | 131.2 | 35.3 | 6.51 | 1.164 | 69.3 | 0.472 | 1.476 | 69.3 | 179.9 | --- | --- | 1.42 | 0.493 | 90.1 | 249.5 | 3.3 | 0.214 |
| 4-4620 | 4-4920 | 0.416 | 133.0 | 35.2 | 6.33 | 1.165 | 70.2 | 0.464 | 1.481 | 66.8 | 183.8 | --- | 2.168 | 1.49 | 0.499 | 86.7 | 246.4 | 3.5 | 0.210 |
| 4-4620 | 4-4940 | 0.400 | 135.1 | 34.9 | 6.13 | 1.167 | 71.2 | 0.456 | 1.492 | 63.9 | 187.3 | --- | 2.173 | 1.59 | 0.507 | 83.9 | 244.3 | 3.8 | 0.210 |
| 4-4620 | 4-4960 | 0.383 | 137.5 | 34.5 | 5.90 | 1.170 | 72.2 | 0.450 | 1.506 | 60.6 | 190.5 | --- | 2.183 | 1.73 | 0.514 | 81.6 | 248.2 | 4.1 | 0.213 |
| 4-4620 | 4-4980 | 0.365 | 140.3 | 33.9 | 5.61 | 1.173 | 73.3 | 0.444 | 1.522 | 56.9 | 193.4 | --- | 2.199 | 1.93 | 0.522 | 79.7 | 243.2 | 4.5 | 0.218 |
| 4-4620 | 4-5000 | 0.347 | 143.3 | 32.9 | 5.25 | 1.177 | 74.5 | 0.439 | 1.541 | 53.0 | 196.0 | --- | 2.218 | 2.20 | 0.529 | 78.2 | 244.1 | 5.1 | 0.225 |
| 4-4620 | 4-5020 | 0.327 | 146.6 | 31.3 | 4.76 | 1.180 | 75.7 | 0.435 | 1.560 | 48.9 | 198.4 | --- | 2.239 | 2.61 | 0.536 | 76.9 | 245.8 | 5.9 | 0.232 |
| 4-4620 | 4-5040 | 0.307 | 149.8 | 28.7 | 4.04 | 1.184 | 76.9 | 0.432 | 1.581 | 44.8 | 200.5 | --- | 2.264 | 3.25 | 0.542 | 75.7 | 248.1 | 7.1 | 0.240 |
| 4-4620 | 4-5060 | 0.285 | 152.7 | 23.7 | 2.83 | 1.187 | 78.2 | 0.429 | 1.602 | 40.1 | 202.5 | --- | 2.291 | 4.38 | 0.547 | 74.8 | 251.0 | 9.3 | 0.249 |
| 4-4620 | 4-5080 | 0.263 | 153.6 | 12.5 | 0.34 | 1.191 | 79.6 | 0.428 | 1.624 | 35.5 | 204.2 | --- | 2.319 | 6.80 | 0.561 | 73.9 | 254.6 | 13.8 | 0.262 |
| 4-4620 | 4-5100 | 0.293 | 142.7 | -22.8 | -8.25 | 1.194 | 80.9 | 0.428 | 1.646 | 30.9 | 205.8 | --- | 2.350 | 15.31 | 0.554 | 73.1 | 260.6 | 27.3 | 0.305 |
| 4-4620 | 4-5120 | 0.957 | 320.5 | 77.0 | 50.04 | 1.197 | 82.5 | 0.427 | 1.668 | 25.2 | 207.2 | --- | 2.381 | -43.05 | 0.557 | 72.5 | 279.0 | -44.3 | 0.518 |
| 4-4620 | 4-5140 | 0.389 | 206.0 | 61.4 | 16.83 | 1.201 | 83.8 | 0.429 | 1.690 | 20.8 | 208.5 | --- | 2.416 | -9.91 | 0.558 | 71.8 | 266.8 | -18.3 | 0.291 |
| 4-4620 | 4-5160 | 0.316 | 204.5 | 50.9 | 12.42 | 1.204 | 85.2 | 0.432 | 1.712 | 15.9 | 209.6 | --- | 2.452 | -5.57 | 0.559 | 71.1 | 270.1 | -10.4 | 0.284 |
| 4-4620 | 4-5180 | 0.287 | 208.9 | 44.4 | 10.70 | 1.207 | 86.7 | 0.436 | 1.734 | 10.9 | 210.7 | --- | 2.490 | -3.92 | 0.560 | 70.4 | 274.2 | -7.2 | 0.287 |
| 4-4620 | 4-5200 | 0.272 | 215.0 | 39.0 | 9.76 | 1.210 | 88.2 | 0.441 | 1.756 | 5.9 | 211.6 | --- | 2.529 | -3.06 | 0.560 | 69.7 | 278.6 | -5.5 | 0.291 |
| 4-4620 | 4-5220 | 0.265 | 221.5 | 33.9 | 9.17 | 1.213 | 89.7 | 0.446 | 1.777 | 0.8 | 212.4 | --- | 2.570 | -2.54 | 0.560 | 69.0 | 283.1 | -4.5 | 0.297 |
| 4-4620 | 4-5240 | 0.263 | 228.0 | 29.0 | 8.75 | 1.215 | 91.3 | 0.453 | 1.798 | 355.8 | 573.1 | 0.983 | 2.613 | -2.19 | 0.559 | 68.2 | 287.6 | -3.8 | 0.302 |
| 4-4620 | 4-5260 | 0.266 | 234.4 | 24.1 | 8.44 | 1.218 | 92.9 | 0.461 | 1.819 | 350.8 | 573.7 | 0.980 | 2.657 | -1.95 | 0.558 | 67.4 | 292.3 | -3.3 | 0.308 |
| 4-4620 | 4-5280 | 0.274 | 240.4 | 19.4 | 8.18 | 1.220 | 94.5 | 0.470 | 1.839 | 345.8 | 574.3 | 0.974 | 2.704 | -1.77 | 0.557 | 66.6 | 296.9 | -2.9 | 0.314 |
| 4-4630 | 4-4750 | 0.693 | 137.8 | 30.4 | 8.47 | 1.289 | 58.3 | 0.754 | 2.706 | 75.8 | 130.5 | --- | --- | 3.12 | 0.711 | 138.3 | 267.6 | 2.4 | 0.620 |
| 4-4630 | 4-4770 | 0.642 | 134.8 | 31.2 | 8.11 | 1.233 | 59.3 | 0.666 | 1.957 | 80.8 | 141.3 | --- | --- | 2.92 | 0.609 | 130.9 | 266.6 | 2.7 | 0.502 |
| 4-4630 | 4-4790 | 0.607 | 132.9 | 31.6 | 7.78 | 1.199 | 60.1 | 0.614 | 1.683 | 84.0 | 150.4 | --- | --- | 2.77 | 0.543 | 123.1 | 264.9 | 3.0 | 0.415 |
| 4-4630 | 4-4810 | 0.581 | 131.9 | 31.7 | 7.47 | 1.178 | 60.9 | 0.582 | 1.554 | 85.7 | 158.1 | --- | --- | 2.67 | 0.502 | 115.3 | 262.5 | 3.5 | 0.351 |
| 4-4630 | 4-4830 | 0.560 | 131.7 | 31.7 | 7.18 | 1.166 | 61.8 | 0.559 | 1.487 | 86.0 | 164.5 | --- | --- | 2.59 | 0.480 | 107.9 | 259.3 | 3.9 | 0.304 |
| 4-4630 | 4-4850 | 0.540 | 132.1 | 31.6 | 6.90 | 1.159 | 62.7 | 0.541 | 1.454 | 85.4 | 170.0 | --- | --- | 2.55 | 0.470 | 101.3 | 255.6 | 4.3 | 0.271 |
| 4-4630 | 4-4870 | 0.522 | 132.9 | 31.4 | 6.62 | 1.156 | 63.6 | 0.527 | 1.440 | 83.9 | 174.9 | --- | --- | 2.54 | 0.468 | 95.7 | 251.7 | 4.8 | 0.249 |
| 4-4630 | 4-4890 | 0.503 | 134.1 | 31.1 | 6.34 | 1.156 | 64.6 | 0.515 | 1.438 | 81.8 | 179.1 | --- | --- | 2.56 | 0.472 | 91.0 | 248.1 | 5.1 | 0.235 |
| 4-4630 | 4-4910 | 0.485 | 135.6 | 30.7 | 6.05 | 1.157 | 65.7 | 0.504 | 1.444 | 79.3 | 182.9 | --- | 2.171 | 2.62 | 0.479 | 87.1 | 245.1 | 5.5 | 0.229 |
| 4-4630 | 4-4930 | 0.465 | 137.4 | 30.2 | 5.74 | 1.159 | 66.8 | 0.494 | 1.455 | 76.2 | 186.3 | --- | 2.174 | 2.71 | 0.488 | 83.9 | 243.1 | 5.8 | 0.227 |
| 4-4630 | 4-4950 | 0.446 | 139.4 | 29.5 | 5.40 | 1.162 | 67.9 | 0.485 | 1.470 | 72.9 | 189.4 | --- | 2.183 | 2.84 | 0.498 | 81.3 | 242.0 | 6.1 | 0.229 |
| 4-4630 | 4-4970 | 0.425 | 141.6 | 28.7 | 5.01 | 1.166 | 69.1 | 0.476 | 1.488 | 69.2 | 192.3 | --- | 2.197 | 3.03 | 0.507 | 79.3 | 242.0 | 6.5 | 0.233 |
| 4-4630 | 4-4990 | 0.405 | 144.0 | 27.5 | 4.57 | 1.170 | 70.4 | 0.469 | 1.509 | 65.3 | 194.9 | --- | 2.216 | 3.30 | 0.516 | 77.4 | 242.8 | 7.0 | 0.238 |
| 4-4630 | 4-5010 | 0.383 | 146.5 | 26.0 | 4.03 | 1.174 | 71.7 | 0.462 | 1.530 | 61.2 | 197.3 | --- | 2.237 | 3.68 | 0.525 | 76.2 | 244.4 | 7.7 | 0.244 |
| 4-4630 | 4-5030 | 0.361 | 149.1 | 23.7 | 3.35 | 1.178 | 73.0 | 0.456 | 1.552 | 56.9 | 199.4 | --- | 2.260 | 4.18 | 0.532 | 75.1 | 246.7 | 8.6 | 0.251 |
| 4-4630 | 4-5050 | 0.339 | 151.6 | 20.4 | 2.43 | 1.182 | 74.3 | 0.451 | 1.575 | 52.4 | 201.4 | --- | 2.286 | 4.94 | 0.538 | 74.1 | 249.5 | 9.9 | 0.258 |
| 4-4630 | 4-5070 | 0.317 | 153.7 | 15.2 | 1.11 | 1.186 | 75.7 | 0.447 | 1.599 | 47.9 | 203.2 | --- | 2.313 | 6.11 | 0.544 | 73.3 | 252.8 | 12.0 | 0.267 |
| 4-4630 | 4-5090 | 0.297 | 154.6 | 6.2 | -1.05 | 1.190 | 77.1 | 0.444 | 1.623 | 43.2 | 204.9 | --- | 2.343 | 8.12 | 0.548 | 72.6 | 256.6 | 15.4 | 0.278 |
| 4-4630 | 4-5110 | 0.296 | 151.5 | -11.2 | -5.30 | 1.193 | 78.5 | 0.442 | 1.646 | 38.4 | 206.4 | --- | 2.374 | 12.23 | 0.552 | 72.0 | 261.4 | 21.8 | 0.299 |
| 4-4630 | 4-5130 | 0.427 | 130.5 | -42.2 | -17.74 | 1.197 | 79.8 | 0.441 | 1.670 | 33.9 | 207.7 | --- | 2.407 | 24.53 | 0.555 | 71.4 | 270.5 | 35.4 | 0.377 |
| 4-4630 | 4-5170 | 0.571 | 230.2 | 71.5 | 27.51 | 1.204 | 83.1 | 0.440 | 1.717 | 22.8 | 209.9 | --- | 2.473 | -20.99 | 0.558 | 70.4 | 277.5 | -31.7 | 0.358 |
| 4-4630 | 4-5190 | 0.405 | 218.3 | 58.2 | 17.87 | 1.207 | 84.5 | 0.443 | 1.740 | 18.0 | 210.9 | --- | 2.510 | -11.48 | 0.559 | 69.9 | 278.1 | -19.5 | 0.313 |
| 4-4630 | 4-5210 | 0.343 | 219.3 | 49.8 | 14.21 | 1.210 | 86.0 | 0.446 | 1.763 | 13.1 | 211.8 | --- | 2.549 | -7.96 | 0.559 | 69.3 | 281.7 | -13.7 | 0.305 |
| 4-4630 | 4-5230 | 0.311 | 223.5 | 43.2 | 12.28 | 1.213 | 87.5 | 0.450 | 1.785 | 8.2 | 212.6 | --- | 2.588 | -6.16 | 0.559 | 68.7 | 285.9 | -10.5 | 0.305 |
| 4-4630 | 4-5250 | 0.293 | 228.8 | 37.4 | 11.06 | 1.216 | 89.0 | 0.455 | 1.807 | 3.2 | 213.3 | --- | 2.630 | -5.08 | 0.558 | 68.0 | 290.3 | -8.8 | 0.307 |
| 4-4630 | 4-5270 | 0.284 | 234.7 | 31.9 | 10.21 | 1.218 | 90.6 | 0.462 | 1.829 | 358.3 | 573.9 | 0.984 | 2.673 | -4.36 | 0.557 | 67.3 | 294.9 | -7.2 | 0.311 |
| 4-4630 | 4-5290 | 0.281 | 240.6 | 26.7 | 9.58 | 1.221 | 92.1 | 0.469 | 1.850 | 353.3 | 574.5 | 0.982 | 2.717 | -3.86 | 0.556 | 66.6 | 299.5 | -6.3 | 0.314 |
| 4-4640 | 4-4760 | 0.787 | 137.9 | 28.6 | 9.49 | 1.250 | 51.5 | 0.752 | 2.143 | 94.3 | 141.8 | --- | --- | 4.98 | 0.642 | 138.7 | 264.1 | 3.6 | 0.593 |
| 4-4640 | 4-4780 | 0.731 | 136.2 | 28.9 | 8.85 | 1.202 | 53.1 | 0.690 | 1.713 | 97.4 | 150.8 | --- | --- | 4.58 | 0.549 | 130.2 | 262.4 | 4.0 | 0.484 |
| 4-4640 | 4-4800 | 0.691 | 135.4 | 28.9 | 8.30 | 1.174 | 54.4 | 0.651 | 1.537 | 98.9 | 158.2 | --- | --- | 4.27 | 0.492 | 121.4 | 260.1 | 4.4 | 0.405 |
| 4-4640 | 4-4820 | 0.660 | 135.3 | 28.8 | 7.80 | 1.158 | 55.7 | 0.623 | 1.453 | 99.1 | 164.4 | --- | --- | 4.04 | 0.460 | 112.7 | 257.1 | 4.9 | 0.348 |
| 4-4640 | 4-4840 | 0.633 | 135.7 | 28.6 | 7.35 | 1.149 | 56.9 | 0.602 | 1.413 | 98.2 | 169.7 | --- | --- | 3.87 | 0.445 | 104.8 | 253.6 | 5.4 | 0.308 |
| 4-4640 | 4-4860 | 0.609 | 136.6 | 28.2 | 6.92 | 1.146 | 58.1 | 0.584 | 1.396 | 96.6 | 174.3 | --- | --- | 3.76 | 0.441 | 97.9 | 250.0 | 5.9 | 0.281 |
| 4-4640 | 4-4880 | 0.586 | 137.7 | 27.8 | 6.50 | 1.145 | 59.4 | 0.568 | 1.393 | 94.3 | 178.3 | --- | --- | 3.69 | 0.445 | 92.2 | 246.6 | 6.2 | 0.263 |
| 4-4640 | 4-4900 | 0.563 | 139.1 | 27.2 | 6.09 | 1.146 | 60.7 | 0.554 | 1.399 | 91.8 | 182.0 | --- | 2.174 | 3.67 | 0.454 | 87.8 | 243.8 | 6.6 | 0.254 |
| 4-4640 | 4-4920 | 0.541 | 140.7 | 26.6 | 5.68 | 1.149 | 61.9 | 0.540 | 1.412 | 88.5 | 185.3 | --- | 2.175 | 3.70 | 0.465 | 83.9 | 241.8 | 6.9 | 0.250 |
| 4-4640 | 4-4940 | 0.518 | 142.5 | 25.8 | 5.25 | 1.153 | 63.3 | 0.528 | 1.429 | 85.1 | 188.3 | --- | 2.183 | 3.77 | 0.476 | 80.9 | 240.8 | 7.1 | 0.249 |
| 4-4640 | 4-4960 | 0.495 | 144.4 | 24.9 | 4.80 | 1.157 | 64.6 | 0.517 | 1.449 | 81.4 | 191.1 | --- | 2.197 | 3.90 | 0.488 | 78.6 | 240.7 | 7.4 | 0.252 |
| 4-4640 | 4-4980 | 0.472 | 146.5 | 23.8 | 4.31 | 1.161 | 66.0 | 0.506 | 1.470 | 77.5 | 193.7 | --- | 2.216 | 4.10 | 0.499 | 76.7 | 241.5 | 7.8 | 0.255 |
| 4-4640 | 4-5000 | 0.449 | 148.6 | 22.3 | 3.76 | 1.166 | 67.4 | 0.496 | 1.494 | 73.4 | 196.1 | --- | 2.235 | 4.37 | 0.510 | 75.3 | 243.0 | 8.3 | 0.260 |
| 4-4640 | 4-5020 | 0.425 | 150.8 | 20.5 | 3.12 | 1.170 | 68.8 | 0.487 | 1.518 | 69.1 | 198.3 | --- | 2.258 | 4.74 | 0.519 | 74.1 | 245.2 | 8.9 | 0.265 |
| 4-4640 | 4-5040 | 0.401 | 153.0 | 18.1 | 2.35 | 1.175 | 70.2 | 0.479 | 1.543 | 64.6 | 200.3 | --- | 2.283 | 5.26 | 0.527 | 73.2 | 247.9 | 9.8 | 0.271 |
| 4-4640 | 4-5060 | 0.378 | 155.1 | 14.8 | 1.40 | 1.179 | 71.7 | 0.473 | 1.569 | 60.1 | 202.1 | --- | 2.310 | 5.98 | 0.534 | 72.4 | 251.1 | 11.0 | 0.277 |
| 4-4640 | 4-5080 | 0.355 | 156.8 | 10.1 | 0.13 | 1.184 | 73.1 | 0.467 | 1.594 | 55.4 | 203.8 | --- | 2.338 | 7.03 | 0.540 | 71.8 | 254.7 | 12.8 | 0.284 |
| 4-4640 | 4-5100 | 0.336 | 157.8 | 3.1 | -1.69 | 1.188 | 74.6 | 0.462 | 1.620 | 50.7 | 205.4 | --- | 2.368 | 8.62 | 0.545 | 71.3 | 258.7 | 15.3 | 0.293 |
| 4-4640 | 4-5120 | 0.325 | 156.9 | -8.0 | -4.55 | 1.192 | 76.0 | 0.458 | 1.645 | 45.9 | 206.8 | --- | 2.399 | 11.27 | 0.549 | 70.8 | 263.2 | 19.3 | 0.307 |
| 4-4640 | 4-5140 | 0.349 | 150.8 | -25.8 | -9.88 | 1.196 | 77.4 | 0.455 | 1.671 | 41.2 | 208.0 | --- | 2.432 | 18.41 | 0.552 | 70.3 | 269.0 | 26.1 | 0.334 |
| 4-4640 | 4-5160 | 0.521 | 125.8 | -47.3 | -23.30 | 1.200 | 78.7 | 0.455 | 1.696 | 36.7 | 209.2 | --- | 2.466 | 29.62 | 0.554 | 69.8 | 279.6 | 37.5 | 0.422 |
| 4-4640 | 4-5200 | 0.788 | 255.4 | 79.0 | 39.92 | 1.206 | 82.5 | 0.451 | 1.745 | 24.5 | 211.0 | --- | 2.531 | -33.97 | 0.557 | 69.3 | 291.4 | -39.7 | 0.455 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4640 | 4-5220 | 0.509 | 229.4 | 63.8 | 23.89 | 1.210 | 83.8 | 0.453 | 1.769 | 20.1 | 211.9 | --- | 2.570 | -18.14 | 0.557 | 68.7 | 287.4 | -27.3 | 0.352 |
| 4-4640 | 4-5240 | 0.406 | 227.8 | 53.9 | 17.93 | 1.213 | 85.2 | 0.456 | 1.792 | 15.3 | 212.7 | --- | 2.609 | -12.36 | 0.557 | 68.2 | 289.8 | -19.8 | 0.327 |
| 4-4640 | 4-5260 | 0.354 | 230.6 | 46.5 | 14.83 | 1.216 | 86.7 | 0.460 | 1.815 | 10.4 | 213.4 | --- | 2.649 | -9.45 | 0.557 | 67.7 | 293.6 | -15.3 | 0.320 |
| 4-4640 | 4-5280 | 0.324 | 235.0 | 40.2 | 12.92 | 1.218 | 88.2 | 0.464 | 1.837 | 5.6 | 214.0 | --- | 2.690 | -7.73 | 0.556 | 67.1 | 297.8 | -12.5 | 0.318 |
| 4-4640 | 4-5300 | 0.306 | 240.3 | 34.4 | 11.61 | 1.221 | 89.8 | 0.470 | 1.859 | 0.7 | 214.6 | --- | 2.733 | -6.61 | 0.556 | 66.5 | 302.2 | -10.6 | 0.319 |
| 4-4650 | 4-4770 | 0.886 | 139.6 | 26.7 | 10.89 | 1.213 | 44.5 | 0.781 | 1.808 | 111.4 | 151.9 | --- | --- | 7.24 | 0.574 | 139.7 | 260.0 | 4.6 | 0.582 |
| 4-4650 | 4-4790 | 0.824 | 139.0 | 26.6 | 9.87 | 1.173 | 46.7 | 0.734 | 1.539 | 112.5 | 158.8 | --- | --- | 6.49 | 0.489 | 130.0 | 257.8 | 5.1 | 0.480 |
| 4-4650 | 4-4810 | 0.778 | 139.0 | 26.4 | 9.01 | 1.150 | 48.6 | 0.700 | 1.423 | 112.2 | 164.6 | --- | --- | 5.93 | 0.440 | 119.8 | 255.0 | 5.5 | 0.408 |
| 4-4650 | 4-4830 | 0.741 | 139.6 | 26.0 | 8.27 | 1.138 | 50.3 | 0.674 | 1.370 | 111.1 | 169.5 | --- | --- | 5.51 | 0.416 | 110.0 | 251.8 | 6.0 | 0.357 |
| 4-4650 | 4-4850 | 0.708 | 140.5 | 25.5 | 7.62 | 1.133 | 52.0 | 0.651 | 1.348 | 109.2 | 173.7 | --- | --- | 5.20 | 0.408 | 101.4 | 248.4 | 6.5 | 0.322 |
| 4-4650 | 4-4870 | 0.679 | 141.6 | 25.0 | 7.02 | 1.132 | 53.5 | 0.631 | 1.344 | 106.7 | 177.5 | --- | --- | 4.97 | 0.412 | 94.2 | 245.2 | 6.8 | 0.300 |
| 4-4650 | 4-4890 | 0.652 | 143.0 | 24.3 | 6.45 | 1.133 | 55.1 | 0.613 | 1.350 | 103.9 | 181.0 | --- | 2.178 | 4.81 | 0.422 | 88.4 | 242.6 | 7.1 | 0.286 |
| 4-4650 | 4-4910 | 0.625 | 144.6 | 23.6 | 5.92 | 1.136 | 56.6 | 0.596 | 1.363 | 100.7 | 184.1 | --- | 2.176 | 4.72 | 0.435 | 83.9 | 240.7 | 7.3 | 0.278 |
| 4-4650 | 4-4930 | 0.599 | 146.3 | 22.8 | 5.39 | 1.141 | 58.2 | 0.580 | 1.382 | 97.2 | 187.1 | --- | 2.183 | 4.69 | 0.449 | 80.4 | 239.7 | 7.6 | 0.275 |
| 4-4650 | 4-4950 | 0.573 | 148.0 | 21.9 | 4.85 | 1.146 | 59.7 | 0.566 | 1.403 | 93.4 | 189.8 | --- | 2.196 | 4.72 | 0.464 | 77.7 | 239.6 | 7.8 | 0.275 |
| 4-4650 | 4-4970 | 0.548 | 149.9 | 20.7 | 4.31 | 1.151 | 61.2 | 0.552 | 1.427 | 89.5 | 192.3 | --- | 2.214 | 4.81 | 0.478 | 75.7 | 240.3 | 8.1 | 0.277 |
| 4-4650 | 4-4990 | 0.522 | 151.8 | 19.4 | 3.73 | 1.156 | 62.8 | 0.539 | 1.452 | 85.4 | 194.7 | --- | 2.234 | 4.97 | 0.491 | 74.1 | 241.8 | 8.4 | 0.280 |
| 4-4650 | 4-5010 | 0.496 | 153.8 | 17.9 | 3.10 | 1.161 | 64.3 | 0.527 | 1.478 | 81.1 | 196.9 | --- | 2.257 | 5.21 | 0.502 | 72.8 | 243.8 | 8.8 | 0.284 |
| 4-4650 | 4-5030 | 0.471 | 155.7 | 15.9 | 2.41 | 1.166 | 65.8 | 0.516 | 1.505 | 76.7 | 198.9 | --- | 2.282 | 5.55 | 0.513 | 71.9 | 246.5 | 9.4 | 0.288 |
| 4-4650 | 4-5050 | 0.445 | 157.7 | 13.5 | 1.61 | 1.172 | 67.4 | 0.506 | 1.533 | 72.1 | 200.8 | --- | 2.308 | 6.02 | 0.522 | 71.2 | 249.5 | 10.2 | 0.292 |
| 4-4650 | 4-5070 | 0.421 | 159.5 | 10.5 | 0.65 | 1.177 | 68.9 | 0.497 | 1.561 | 67.5 | 202.6 | --- | 2.336 | 6.65 | 0.529 | 70.6 | 253.0 | 11.2 | 0.297 |
| 4-4650 | 4-5090 | 0.397 | 161.1 | 6.4 | -0.53 | 1.181 | 70.4 | 0.489 | 1.588 | 62.8 | 204.2 | --- | 2.364 | 7.54 | 0.536 | 70.1 | 256.7 | 12.7 | 0.302 |
| 4-4650 | 4-5110 | 0.376 | 162.2 | 0.8 | -2.07 | 1.186 | 72.0 | 0.482 | 1.616 | 58.0 | 205.7 | --- | 2.395 | 8.80 | 0.541 | 69.7 | 260.8 | 14.6 | 0.308 |
| 4-4650 | 4-5130 | 0.360 | 162.3 | -7.1 | -4.23 | 1.190 | 73.5 | 0.477 | 1.643 | 53.2 | 207.0 | --- | 2.426 | 10.68 | 0.546 | 69.4 | 265.3 | 17.4 | 0.317 |
| 4-4650 | 4-5150 | 0.359 | 160.0 | -18.5 | -7.54 | 1.194 | 74.9 | 0.472 | 1.670 | 48.4 | 208.2 | --- | 2.459 | 13.73 | 0.549 | 69.1 | 270.4 | 21.5 | 0.331 |
| 4-4650 | 4-5170 | 0.400 | 151.7 | -34.3 | -13.35 | 1.198 | 76.4 | 0.469 | 1.696 | 43.7 | 209.4 | --- | 2.492 | 19.29 | 0.551 | 68.7 | 276.7 | 28.0 | 0.361 |
| 4-4650 | 4-5190 | 0.574 | 126.7 | -49.1 | -26.19 | 1.202 | 77.7 | 0.468 | 1.722 | 39.3 | 210.4 | --- | 2.528 | 31.88 | 0.553 | 68.3 | 287.5 | 37.6 | 0.445 |
| 4-4650 | 4-5230 | 1.032 | 304.9 | 85.4 | 54.23 | 1.209 | 82.0 | 0.460 | 1.773 | 25.7 | 211.9 | --- | 2.589 | -49.02 | 0.555 | 68.2 | 307.3 | -42.7 | 0.573 |
| 4-4650 | 4-5250 | 0.630 | 237.3 | 68.9 | 30.76 | 1.212 | 83.1 | 0.463 | 1.798 | 21.9 | 212.8 | --- | 2.630 | -25.79 | 0.555 | 67.7 | 298.1 | -33.8 | 0.402 |
| 4-4650 | 4-5270 | 0.477 | 234.4 | 57.6 | 21.95 | 1.215 | 84.5 | 0.466 | 1.822 | 17.4 | 213.5 | --- | 2.670 | -17.20 | 0.555 | 67.2 | 298.6 | -25.3 | 0.354 |
| 4-4650 | 4-5290 | 0.400 | 236.3 | 49.4 | 17.48 | 1.218 | 85.9 | 0.469 | 1.845 | 12.7 | 214.1 | --- | 2.710 | -12.97 | 0.555 | 66.7 | 301.6 | -19.9 | 0.337 |
| 4-4650 | 4-5310 | 0.356 | 240.2 | 42.6 | 14.78 | 1.220 | 87.4 | 0.473 | 1.868 | 8.0 | 214.7 | --- | 2.751 | -10.50 | 0.555 | 66.2 | 305.5 | -16.3 | 0.330 |
| 4-4660 | 4-4780 | 0.988 | 142.5 | 24.6 | 12.92 | 1.180 | 37.4 | 0.827 | 1.593 | 126.5 | 160.0 | --- | --- | 10.10 | 0.508 | 141.8 | 255.7 | 5.4 | 0.585 |
| 4-4660 | 4-4800 | 0.919 | 142.7 | 24.3 | 11.28 | 1.145 | 40.2 | 0.788 | 1.411 | 125.6 | 165.0 | --- | --- | 8.78 | 0.429 | 130.4 | 253.2 | 5.8 | 0.489 |
| 4-4660 | 4-4820 | 0.866 | 143.4 | 23.8 | 9.98 | 1.127 | 42.7 | 0.756 | 1.334 | 124.0 | 169.4 | --- | --- | 7.82 | 0.387 | 118.4 | 250.2 | 6.3 | 0.423 |
| 4-4660 | 4-4840 | 0.822 | 144.4 | 23.2 | 8.92 | 1.119 | 44.9 | 0.729 | 1.302 | 121.7 | 173.2 | --- | --- | 7.11 | 0.370 | 107.3 | 247.1 | 6.7 | 0.377 |
| 4-4660 | 4-4860 | 0.785 | 145.7 | 22.6 | 8.01 | 1.117 | 46.9 | 0.704 | 1.293 | 119.0 | 176.7 | --- | --- | 6.58 | 0.371 | 97.8 | 244.2 | 7.0 | 0.346 |
| 4-4660 | 4-4880 | 0.751 | 147.1 | 21.8 | 7.20 | 1.118 | 48.8 | 0.682 | 1.298 | 116.0 | 179.9 | --- | --- | 6.19 | 0.382 | 90.2 | 241.7 | 7.2 | 0.326 |
| 4-4660 | 4-4900 | 0.719 | 148.7 | 21.0 | 6.48 | 1.122 | 50.7 | 0.661 | 1.311 | 112.6 | 182.9 | --- | 2.178 | 5.91 | 0.397 | 84.4 | 239.9 | 7.4 | 0.314 |
| 4-4660 | 4-4920 | 0.689 | 150.3 | 20.2 | 5.80 | 1.126 | 52.5 | 0.641 | 1.330 | 109.0 | 185.7 | --- | 2.183 | 5.71 | 0.415 | 80.0 | 238.9 | 7.6 | 0.307 |
| 4-4660 | 4-4940 | 0.659 | 152.0 | 19.2 | 5.15 | 1.132 | 54.3 | 0.623 | 1.353 | 105.2 | 188.3 | --- | 2.195 | 5.60 | 0.433 | 76.8 | 238.7 | 7.8 | 0.304 |
| 4-4660 | 4-4960 | 0.630 | 153.8 | 18.1 | 4.52 | 1.138 | 56.0 | 0.605 | 1.378 | 101.3 | 190.8 | --- | 2.212 | 5.56 | 0.450 | 74.4 | 239.4 | 8.0 | 0.304 |
| 4-4660 | 4-4980 | 0.602 | 155.6 | 16.9 | 3.89 | 1.144 | 57.8 | 0.589 | 1.405 | 97.1 | 193.1 | --- | 2.233 | 5.59 | 0.467 | 72.6 | 240.7 | 8.2 | 0.305 |
| 4-4660 | 4-5000 | 0.574 | 157.5 | 15.5 | 3.24 | 1.150 | 59.5 | 0.574 | 1.433 | 92.8 | 195.3 | --- | 2.256 | 5.69 | 0.481 | 71.2 | 242.7 | 8.5 | 0.306 |
| 4-4660 | 4-5020 | 0.546 | 159.3 | 13.8 | 2.56 | 1.156 | 61.2 | 0.559 | 1.462 | 88.4 | 197.4 | --- | 2.280 | 5.88 | 0.494 | 70.3 | 245.2 | 8.9 | 0.309 |
| 4-4660 | 4-5040 | 0.519 | 161.1 | 11.9 | 1.82 | 1.162 | 62.8 | 0.546 | 1.492 | 83.9 | 199.3 | --- | 2.307 | 6.16 | 0.506 | 69.5 | 248.1 | 9.4 | 0.311 |
| 4-4660 | 4-5060 | 0.492 | 162.9 | 9.6 | 1.01 | 1.168 | 64.5 | 0.534 | 1.522 | 79.3 | 201.1 | --- | 2.334 | 6.55 | 0.516 | 69.0 | 251.5 | 10.1 | 0.314 |
| 4-4660 | 4-5080 | 0.466 | 164.6 | 6.8 | 0.08 | 1.173 | 66.1 | 0.523 | 1.551 | 74.6 | 202.8 | --- | 2.363 | 7.08 | 0.524 | 68.6 | 255.1 | 10.9 | 0.317 |
| 4-4660 | 4-5100 | 0.441 | 166.1 | 3.2 | -1.01 | 1.178 | 67.7 | 0.513 | 1.581 | 69.9 | 204.4 | --- | 2.392 | 7.80 | 0.531 | 68.3 | 259.0 | 12.1 | 0.320 |
| 4-4660 | 4-5120 | 0.418 | 167.3 | -1.3 | -2.35 | 1.183 | 69.3 | 0.505 | 1.610 | 65.1 | 205.8 | --- | 2.423 | 8.80 | 0.537 | 68.1 | 263.2 | 13.6 | 0.324 |
| 4-4660 | 4-5140 | 0.399 | 167.9 | -7.3 | -4.08 | 1.188 | 70.9 | 0.497 | 1.639 | 60.3 | 207.1 | --- | 2.455 | 10.19 | 0.542 | 67.9 | 267.6 | 15.6 | 0.329 |
| 4-4660 | 4-5160 | 0.388 | 167.2 | -15.4 | -6.44 | 1.192 | 72.4 | 0.491 | 1.668 | 55.5 | 208.3 | --- | 2.487 | 12.24 | 0.545 | 67.7 | 272.4 | 18.5 | 0.337 |
| 4-4660 | 4-5180 | 0.394 | 164.0 | -26.2 | -9.94 | 1.196 | 73.9 | 0.486 | 1.696 | 50.7 | 209.4 | --- | 2.521 | 15.43 | 0.548 | 67.5 | 277.7 | 22.6 | 0.351 |
| 4-4660 | 4-5200 | 0.441 | 154.7 | -39.5 | -15.77 | 1.200 | 75.4 | 0.483 | 1.723 | 46.1 | 210.4 | --- | 2.555 | 20.97 | 0.550 | 67.3 | 284.3 | 28.5 | 0.380 |
| 4-4660 | 4-5220 | 0.600 | 131.2 | -50.3 | -27.33 | 1.204 | 76.7 | 0.481 | 1.750 | 41.8 | 211.3 | --- | 2.592 | 32.24 | 0.552 | 67.0 | 294.5 | 36.8 | 0.453 |
| 4-4660 | 4-5280 | 0.773 | 240.8 | 74.2 | 38.89 | 1.214 | 82.4 | 0.473 | 1.827 | 23.7 | 213.5 | --- | 2.691 | -34.81 | 0.554 | 66.7 | 310.3 | -38.6 | 0.465 |
| 4-4660 | 4-5300 | 0.557 | 238.8 | 61.2 | 26.45 | 1.217 | 83.7 | 0.475 | 1.851 | 19.5 | 214.1 | --- | 2.731 | -22.63 | 0.554 | 66.3 | 308.0 | -30.3 | 0.386 |
| 4-4660 | 4-5320 | 0.450 | 240.7 | 52.0 | 20.31 | 1.220 | 85.1 | 0.478 | 1.875 | 15.1 | 214.7 | --- | 2.771 | -16.75 | 0.553 | 65.8 | 310.0 | -24.1 | 0.356 |
| 4-4670 | 4-4790 | 1.091 | 146.1 | 22.5 | 16.01 | 1.151 | 30.2 | 0.879 | 1.449 | 139.5 | 166.2 | --- | --- | 14.02 | 0.446 | 145.1 | 251.8 | 5.9 | 0.604 |
| 4-4670 | 4-4810 | 1.014 | 147.0 | 21.9 | 13.31 | 1.121 | 33.6 | 0.844 | 1.317 | 137.1 | 169.7 | --- | --- | 11.67 | 0.369 | 131.7 | 249.2 | 6.3 | 0.512 |
| 4-4670 | 4-4830 | 0.954 | 148.2 | 21.2 | 11.34 | 1.106 | 36.6 | 0.813 | 1.263 | 134.3 | 172.9 | --- | --- | 10.06 | 0.333 | 117.4 | 246.3 | 6.6 | 0.449 |
| 4-4670 | 4-4850 | 0.904 | 149.6 | 20.4 | 9.80 | 1.101 | 39.3 | 0.784 | 1.245 | 131.3 | 175.9 | --- | --- | 8.91 | 0.324 | 104.3 | 243.6 | 6.9 | 0.406 |
| 4-4670 | 4-4870 | 0.862 | 151.1 | 19.6 | 8.55 | 1.101 | 41.8 | 0.758 | 1.246 | 127.9 | 178.8 | --- | --- | 8.07 | 0.333 | 93.7 | 241.2 | 7.1 | 0.377 |
| 4-4670 | 4-4890 | 0.823 | 152.8 | 18.7 | 7.50 | 1.105 | 44.1 | 0.733 | 1.257 | 124.4 | 181.5 | --- | 2.180 | 7.45 | 0.351 | 85.8 | 239.5 | 7.3 | 0.359 |
| 4-4670 | 4-4910 | 0.787 | 154.5 | 17.8 | 6.57 | 1.110 | 46.2 | 0.710 | 1.276 | 120.7 | 184.2 | --- | 2.182 | 6.99 | 0.373 | 80.0 | 238.5 | 7.4 | 0.347 |
| 4-4670 | 4-4930 | 0.753 | 156.2 | 16.8 | 5.74 | 1.116 | 48.3 | 0.688 | 1.299 | 116.8 | 186.7 | --- | 2.193 | 6.66 | 0.395 | 75.8 | 238.2 | 7.5 | 0.340 |
| 4-4670 | 4-4950 | 0.721 | 158.0 | 15.7 | 4.97 | 1.123 | 50.4 | 0.667 | 1.326 | 112.8 | 189.1 | --- | 2.210 | 6.44 | 0.417 | 72.9 | 238.7 | 7.6 | 0.336 |
| 4-4670 | 4-4970 | 0.689 | 159.7 | 14.5 | 4.23 | 1.130 | 52.3 | 0.647 | 1.354 | 108.6 | 191.4 | --- | 2.230 | 6.30 | 0.437 | 70.8 | 240.0 | 7.8 | 0.335 |
| 4-4670 | 4-4990 | 0.658 | 161.5 | 13.2 | 3.52 | 1.137 | 54.2 | 0.628 | 1.384 | 104.3 | 193.6 | --- | 2.253 | 6.25 | 0.455 | 69.3 | 241.8 | 8.0 | 0.334 |
| 4-4670 | 4-5010 | 0.628 | 163.3 | 11.7 | 2.81 | 1.144 | 56.1 | 0.610 | 1.415 | 99.9 | 195.6 | --- | 2.278 | 6.28 | 0.471 | 68.2 | 244.2 | 8.2 | 0.334 |
| 4-4670 | 4-5030 | 0.598 | 165.1 | 10.0 | 2.08 | 1.151 | 57.9 | 0.594 | 1.446 | 95.4 | 197.6 | --- | 2.305 | 6.40 | 0.486 | 67.5 | 247.0 | 8.6 | 0.335 |
| 4-4670 | 4-5050 | 0.569 | 166.8 | 8.2 | 1.32 | 1.157 | 59.7 | 0.578 | 1.478 | 90.9 | 199.5 | --- | 2.333 | 6.60 | 0.498 | 67.0 | 250.2 | 9.0 | 0.335 |
| 4-4670 | 4-5070 | 0.540 | 168.5 | 6.0 | 0.51 | 1.163 | 61.5 | 0.564 | 1.510 | 86.2 | 201.2 | --- | 2.362 | 6.90 | 0.509 | 66.7 | 253.7 | 9.6 | 0.336 |
| 4-4670 | 4-5090 | 0.513 | 170.2 | 3.4 | -0.39 | 1.169 | 63.2 | 0.551 | 1.541 | 81.5 | 202.8 | --- | 2.391 | 7.32 | 0.518 | 66.5 | 257.5 | 10.3 | 0.337 |
| 4-4670 | 4-5110 | 0.487 | 171.6 | 0.3 | -1.40 | 1.175 | 64.9 | 0.540 | 1.573 | 76.8 | 204.3 | --- | 2.422 | 7.90 | 0.526 | 66.4 | 261.5 | 11.3 | 0.339 |
| 4-4670 | 4-5130 | 0.462 | 172.9 | -3.5 | -2.58 | 1.180 | 66.6 | 0.529 | 1.604 | 72.0 | 205.7 | --- | 2.453 | 8.67 | 0.532 | 66.3 | 265.7 | 12.5 | 0.340 |
| 4-4670 | 4-5150 | 0.440 | 173.7 | -8.3 | -4.02 | 1.185 | 68.2 | 0.520 | 1.634 | 67.2 | 207.0 | --- | 2.484 | 9.72 | 0.537 | 66.2 | 270.1 | 14.0 | 0.343 |
| 4-4670 | 4-5170 | 0.424 | 173.9 | -14.3 | -5.84 | 1.189 | 69.9 | 0.512 | 1.664 | 62.4 | 208.2 | --- | 2.517 | 11.17 | 0.541 | 66.2 | 274.7 | 16.1 | 0.347 |
| 4-4670 | 4-5190 | 0.416 | 172.7 | -22.1 | -8.27 | 1.194 | 71.4 | 0.506 | 1.694 | 57.6 | 209.3 | --- | 2.550 | 13.25 | 0.544 | 66.1 | 279.6 | 18.8 | 0.353 |
| 4-4670 | 4-5210 | 0.425 | 169.0 | -31.9 | -11.76 | 1.198 | 72.9 | 0.500 | 1.723 | 52.9 | 210.3 | --- | 2.584 | 16.41 | 0.547 | 66.1 | 285.1 | 22.7 | 0.366 |
| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4670 | 4-5230 | 0.472 | 159.5 | -43.1 | -17.29 | 1.202 | 74.4 | 0.496 | 1.751 | 48.4 | 211.2 | --- | 2.620 | 21.61 | 0.549 | 65.9 | 291.6 | 28.1 | 0.391 |
| 4-4670 | 4-5250 | 0.607 | 138.2 | -51.7 | -27.32 | 1.206 | 75.8 | 0.494 | 1.778 | 44.1 | 212.0 | --- | 2.657 | 31.33 | 0.550 | 65.7 | 301.0 | 35.4 | 0.450 |
| 4-4670 | 4-5270 | 0.956 | 107.3 | -46.9 | -49.07 | 1.209 | 76.8 | 0.494 | 1.805 | 40.7 | 212.8 | --- | 2.697 | 52.76 | 0.551 | 65.4 | 318.0 | 41.2 | 0.605 |
| 4-4670 | 4-5310 | 0.944 | 233.2 | 79.9 | 48.85 | 1.215 | 81.8 | 0.482 | 1.856 | 25.3 | 214.0 | --- | 2.751 | -45.75 | 0.562 | 65.8 | 324.1 | -41.4 | 0.545 |
| 4-4670 | 4-5330 | 0.650 | 240.7 | 64.9 | 31.72 | 1.218 | 83.0 | 0.485 | 1.881 | 21.7 | 214.7 | --- | 2.792 | -28.91 | 0.552 | 65.4 | 318.4 | -34.7 | 0.426 |
| 4-4680 | 4-4800 | 1.193 | 150.3 | 20.3 | 21.17 | 1.127 | 22.9 | 0.927 | 1.352 | 150.7 | 170.8 | --- | --- | 20.00 | 0.391 | 150.1 | 248.8 | 6.0 | 0.637 |
| 4-4680 | 4-4820 | 1.108 | 151.7 | 19.4 | 16.43 | 1.099 | 27.0 | 0.896 | 1.247 | 147.2 | 173.1 | --- | --- | 15.63 | 0.312 | 134.5 | 246.2 | 6.3 | 0.546 |
| 4-4680 | 4-4840 | 1.041 | 153.3 | 18.5 | 13.29 | 1.087 | 30.5 | 0.866 | 1.208 | 143.6 | 175.4 | --- | --- | 12.88 | 0.279 | 117.0 | 243.7 | 6.6 | 0.484 |
| 4-4680 | 4-4860 | 0.986 | 155.0 | 17.6 | 11.04 | 1.085 | 33.7 | 0.838 | 1.199 | 139.9 | 177.8 | --- | --- | 11.03 | 0.278 | 101.2 | 241.4 | 6.8 | 0.443 |
| 4-4680 | 4-4880 | 0.938 | 156.8 | 16.6 | 9.31 | 1.087 | 36.5 | 0.810 | 1.206 | 136.1 | 180.2 | --- | 2.183 | 9.73 | 0.295 | 89.2 | 239.6 | 6.9 | 0.415 |
| 4-4680 | 4-4900 | 0.895 | 158.6 | 15.6 | 7.92 | 1.092 | 39.2 | 0.784 | 1.222 | 132.2 | 182.6 | --- | 2.180 | 8.78 | 0.320 | 80.8 | 238.5 | 7.0 | 0.396 |
| 4-4680 | 4-4920 | 0.856 | 160.4 | 14.5 | 6.75 | 1.099 | 41.7 | 0.758 | 1.245 | 128.1 | 184.9 | --- | 2.189 | 8.08 | 0.348 | 75.2 | 238.2 | 7.1 | 0.384 |
| 4-4680 | 4-4940 | 0.818 | 162.2 | 13.4 | 5.73 | 1.106 | 44.1 | 0.734 | 1.271 | 124.0 | 187.2 | --- | 2.205 | 7.57 | 0.375 | 71.3 | 238.5 | 7.2 | 0.376 |
| 4-4680 | 4-4960 | 0.783 | 164.0 | 12.2 | 4.82 | 1.114 | 46.3 | 0.711 | 1.301 | 119.8 | 189.4 | --- | 2.225 | 7.21 | 0.400 | 68.7 | 239.6 | 7.2 | 0.370 |
| 4-4680 | 4-4980 | 0.748 | 165.8 | 10.9 | 3.98 | 1.122 | 48.5 | 0.689 | 1.332 | 115.5 | 191.6 | --- | 2.249 | 6.96 | 0.422 | 67.0 | 241.3 | 7.4 | 0.367 |
| 4-4680 | 4-5000 | 0.715 | 167.6 | 9.6 | 3.19 | 1.130 | 50.6 | 0.668 | 1.364 | 111.1 | 193.6 | --- | 2.275 | 6.81 | 0.443 | 65.8 | 243.5 | 7.5 | 0.365 |
| 4-4680 | 4-5020 | 0.682 | 169.3 | 8.1 | 2.42 | 1.138 | 52.7 | 0.648 | 1.397 | 106.7 | 195.6 | --- | 2.302 | 6.75 | 0.461 | 65.1 | 246.1 | 7.8 | 0.363 |
| 4-4680 | 4-5040 | 0.651 | 171.1 | 6.4 | 1.65 | 1.145 | 54.7 | 0.629 | 1.430 | 102.1 | 197.5 | --- | 2.330 | 6.78 | 0.476 | 64.6 | 249.2 | 8.1 | 0.362 |
| 4-4680 | 4-5060 | 0.620 | 172.8 | 4.6 | 0.88 | 1.152 | 56.6 | 0.612 | 1.464 | 97.5 | 199.3 | --- | 2.360 | 6.90 | 0.490 | 64.4 | 252.6 | 8.5 | 0.361 |
| 4-4680 | 4-5080 | 0.590 | 174.4 | 2.5 | 0.07 | 1.159 | 58.5 | 0.596 | 1.497 | 92.8 | 201.0 | --- | 2.390 | 7.11 | 0.501 | 64.3 | 256.2 | 8.9 | 0.360 |
| 4-4680 | 4-5100 | 0.561 | 176.0 | 0.2 | -0.79 | 1.165 | 60.3 | 0.581 | 1.531 | 88.1 | 202.6 | --- | 2.420 | 7.42 | 0.511 | 64.2 | 260.1 | 9.5 | 0.359 |
| 4-4680 | 4-5120 | 0.534 | 177.5 | -2.6 | -1.73 | 1.171 | 62.1 | 0.568 | 1.564 | 83.4 | 204.1 | --- | 2.452 | 7.88 | 0.519 | 64.3 | 264.1 | 10.3 | 0.358 |
| 4-4680 | 4-5140 | 0.508 | 178.8 | -5.8 | -2.79 | 1.176 | 63.8 | 0.556 | 1.596 | 78.7 | 205.5 | --- | 2.483 | 8.45 | 0.526 | 64.4 | 268.3 | 11.2 | 0.357 |
| 4-4680 | 4-5160 | 0.484 | 179.8 | -9.7 | -4.01 | 1.182 | 65.6 | 0.545 | 1.628 | 73.9 | 206.8 | --- | 2.515 | 9.23 | 0.532 | 64.5 | 272.7 | 12.4 | 0.357 |
| 4-4680 | 4-5180 | 0.463 | 180.5 | -14.4 | -5.48 | 1.186 | 67.2 | 0.535 | 1.660 | 69.1 | 207.9 | --- | 2.548 | 10.28 | 0.536 | 64.6 | 277.2 | 14.0 | 0.358 |
| 4-4680 | 4-5200 | 0.448 | 180.4 | -20.3 | -7.30 | 1.191 | 68.8 | 0.527 | 1.691 | 64.4 | 209.0 | --- | 2.581 | 11.72 | 0.540 | 64.6 | 281.9 | 15.9 | 0.361 |
| 4-4680 | 4-5220 | 0.441 | 179.1 | -27.5 | -9.69 | 1.195 | 70.4 | 0.520 | 1.721 | 59.7 | 210.0 | --- | 2.615 | 13.74 | 0.543 | 64.7 | 286.9 | 18.6 | 0.366 |
| 4-4680 | 4-5240 | 0.451 | 175.2 | -36.3 | -13.02 | 1.200 | 72.0 | 0.514 | 1.750 | 55.1 | 210.9 | --- | 2.650 | 16.71 | 0.545 | 64.7 | 292.3 | 22.1 | 0.376 |
| 4-4680 | 4-5260 | 0.493 | 166.2 | -45.9 | -18.05 | 1.203 | 73.4 | 0.510 | 1.779 | 50.6 | 211.8 | --- | 2.685 | 21.39 | 0.547 | 64.6 | 298.6 | 27.0 | 0.397 |
| 4-4680 | 4-5280 | 0.602 | 147.2 | -53.3 | -26.55 | 1.207 | 74.8 | 0.507 | 1.806 | 46.4 | 212.6 | --- | 2.722 | 29.56 | 0.548 | 64.5 | 307.1 | 33.5 | 0.442 |
| 4-4680 | 4-5300 | 0.863 | 119.2 | -50.9 | -43.17 | 1.210 | 75.9 | 0.506 | 1.834 | 42.8 | 213.4 | --- | 2.761 | 45.86 | 0.549 | 64.3 | 321.1 | 39.9 | 0.553 |
| 4-4680 | 4-5340 | 1.151 | 186.8 | 83.2 | 61.33 | 1.216 | 81.3 | 0.491 | 1.885 | 26.7 | 214.6 | --- | 2.811 | -59.27 | 0.550 | 64.9 | 338.9 | -41.8 | 0.643 |
| 4-4690 | 4-4830 | 1.200 | 156.8 | 16.9 | 21.66 | 1.081 | 20.4 | 0.939 | 1.198 | 156.1 | 175.5 | --- | --- | 21.69 | 0.260 | 139.3 | 244.4 | 6.1 | 0.589 |
| 4-4690 | 4-4850 | 1.127 | 158.7 | 15.8 | 16.30 | 1.071 | 24.4 | 0.913 | 1.166 | 151.9 | 177.1 | --- | --- | 16.73 | 0.226 | 117.4 | 242.2 | 6.3 | 0.527 |
| 4-4690 | 4-4870 | 1.066 | 160.6 | 14.7 | 12.84 | 1.070 | 28.0 | 0.886 | 1.162 | 147.7 | 179.0 | --- | --- | 13.67 | 0.231 | 97.7 | 240.4 | 6.4 | 0.485 |
| 4-4690 | 4-4890 | 1.014 | 162.5 | 13.6 | 10.38 | 1.073 | 31.3 | 0.858 | 1.173 | 143.5 | 181.0 | --- | 2.179 | 11.64 | 0.257 | 84.0 | 239.2 | 6.5 | 0.456 |
| 4-4690 | 4-4910 | 0.967 | 164.5 | 12.4 | 8.52 | 1.080 | 34.3 | 0.831 | 1.192 | 139.3 | 183.1 | --- | 2.184 | 10.22 | 0.290 | 75.3 | 238.7 | 6.5 | 0.436 |
| 4-4690 | 4-4930 | 0.924 | 166.4 | 11.3 | 7.03 | 1.088 | 37.1 | 0.805 | 1.217 | 135.1 | 185.2 | --- | 2.197 | 9.21 | 0.323 | 69.8 | 238.8 | 6.6 | 0.422 |
| 4-4690 | 4-4950 | 0.883 | 168.2 | 10.0 | 5.79 | 1.096 | 39.8 | 0.779 | 1.246 | 130.8 | 187.3 | --- | 2.217 | 8.46 | 0.354 | 66.4 | 239.7 | 6.6 | 0.413 |
| 4-4690 | 4-4970 | 0.845 | 170.1 | 8.8 | 4.72 | 1.105 | 42.3 | 0.754 | 1.277 | 126.5 | 189.4 | --- | 2.241 | 7.92 | 0.383 | 64.3 | 241.1 | 6.7 | 0.406 |
| 4-4690 | 4-4990 | 0.808 | 171.9 | 7.5 | 3.76 | 1.114 | 44.7 | 0.731 | 1.310 | 122.1 | 191.4 | --- | 2.268 | 7.53 | 0.408 | 62.9 | 243.2 | 6.8 | 0.401 |
| 4-4690 | 4-5010 | 0.773 | 173.7 | 6.1 | 2.88 | 1.123 | 47.0 | 0.708 | 1.344 | 117.6 | 193.4 | --- | 2.296 | 7.27 | 0.430 | 62.1 | 245.6 | 7.0 | 0.396 |
| 4-4690 | 4-5030 | 0.738 | 175.4 | 4.6 | 2.05 | 1.131 | 49.2 | 0.686 | 1.379 | 113.1 | 195.4 | --- | 2.326 | 7.11 | 0.450 | 61.7 | 248.5 | 7.2 | 0.393 |
| 4-4690 | 4-5050 | 0.705 | 177.2 | 2.9 | 1.25 | 1.139 | 51.3 | 0.666 | 1.414 | 108.5 | 197.2 | --- | 2.356 | 7.05 | 0.466 | 61.6 | 251.7 | 7.4 | 0.390 |
| 4-4690 | 4-5070 | 0.673 | 178.9 | 1.2 | 0.46 | 1.147 | 53.4 | 0.647 | 1.449 | 103.9 | 199.0 | --- | 2.387 | 7.08 | 0.481 | 61.6 | 255.2 | 7.7 | 0.387 |
| 4-4690 | 4-5090 | 0.641 | 180.5 | -0.8 | -0.34 | 1.154 | 55.4 | 0.629 | 1.485 | 99.2 | 200.6 | --- | 2.419 | 7.19 | 0.493 | 61.7 | 258.9 | 8.1 | 0.384 |
| 4-4690 | 4-5110 | 0.611 | 182.1 | -2.9 | -1.16 | 1.160 | 57.3 | 0.613 | 1.519 | 94.5 | 202.2 | --- | 2.450 | 7.40 | 0.504 | 61.9 | 262.9 | 8.6 | 0.381 |
| 4-4690 | 4-5130 | 0.582 | 183.6 | -5.4 | -2.04 | 1.167 | 59.2 | 0.597 | 1.554 | 89.8 | 203.7 | --- | 2.482 | 7.71 | 0.513 | 62.1 | 266.9 | 9.3 | 0.378 |
| 4-4690 | 4-5150 | 0.554 | 184.9 | -8.2 | -2.99 | 1.173 | 61.0 | 0.583 | 1.588 | 85.1 | 205.0 | --- | 2.515 | 8.14 | 0.520 | 62.3 | 271.2 | 10.0 | 0.376 |
| 4-4690 | 4-5170 | 0.529 | 186.2 | -11.4 | -4.05 | 1.178 | 62.8 | 0.571 | 1.621 | 80.4 | 206.3 | --- | 2.547 | 8.72 | 0.526 | 62.6 | 275.5 | 10.9 | 0.373 |
| 4-4690 | 4-5190 | 0.506 | 187.1 | -15.3 | -5.26 | 1.183 | 64.5 | 0.560 | 1.654 | 75.7 | 207.5 | --- | 2.580 | 9.48 | 0.531 | 62.8 | 279.9 | 12.1 | 0.372 |
| 4-4690 | 4-5210 | 0.486 | 187.7 | -19.8 | -6.70 | 1.188 | 66.2 | 0.550 | 1.686 | 71.0 | 208.6 | --- | 2.613 | 10.49 | 0.535 | 63.0 | 284.5 | 13.5 | 0.371 |
| 4-4690 | 4-5230 | 0.471 | 187.5 | -25.3 | -8.46 | 1.193 | 67.8 | 0.541 | 1.718 | 66.3 | 209.6 | --- | 2.647 | 11.85 | 0.538 | 63.2 | 289.2 | 15.4 | 0.372 |
| 4-4690 | 4-5250 | 0.465 | 186.2 | -31.9 | -10.72 | 1.197 | 69.4 | 0.534 | 1.748 | 61.7 | 210.6 | --- | 2.681 | 13.73 | 0.541 | 63.3 | 294.1 | 17.8 | 0.375 |
| 4-4690 | 4-5270 | 0.473 | 182.7 | -39.7 | -13.77 | 1.201 | 71.0 | 0.528 | 1.778 | 57.2 | 211.5 | --- | 2.716 | 16.42 | 0.543 | 63.4 | 299.4 | 21.1 | 0.382 |
| 4-4690 | 4-5290 | 0.507 | 174.7 | -48.2 | -18.21 | 1.205 | 72.4 | 0.523 | 1.807 | 52.8 | 212.3 | --- | 2.751 | 20.50 | 0.545 | 63.4 | 305.4 | 25.4 | 0.397 |
| 4-4690 | 4-5310 | 0.592 | 158.1 | -55.1 | -25.28 | 1.208 | 73.8 | 0.519 | 1.835 | 48.6 | 213.1 | --- | 2.787 | 27.23 | 0.546 | 63.4 | 313.0 | 31.2 | 0.431 |
| 4-4690 | 4-5330 | 0.783 | 132.2 | -54.9 | -38.01 | 1.211 | 75.0 | 0.517 | 1.862 | 44.9 | 213.8 | --- | 2.825 | 39.63 | 0.547 | 63.2 | 324.4 | 37.8 | 0.508 |
| 4-4700 | 4-4840 | 1.290 | 161.9 | 14.2 | 31.85 | 1.067 | 14.0 | 0.971 | 1.164 | 164.0 | 177.2 | --- | --- | 32.69 | 0.215 | 146.9 | 243.6 | 5.7 | 0.638 |
| 4-4700 | 4-4860 | 1.211 | 164.1 | 13.0 | 21.39 | 1.057 | 18.3 | 0.950 | 1.135 | 159.5 | 178.3 | --- | --- | 22.63 | 0.174 | 119.5 | 241.8 | 5.8 | 0.574 |
| 4-4700 | 4-4880 | 1.145 | 166.3 | 11.7 | 15.61 | 1.057 | 22.3 | 0.926 | 1.133 | 155.0 | 179.7 | --- | --- | 17.25 | 0.184 | 93.7 | 240.5 | 5.9 | 0.530 |
| 4-4700 | 4-4900 | 1.088 | 168.4 | 10.5 | 11.94 | 1.061 | 26.0 | 0.901 | 1.146 | 150.5 | 181.4 | --- | 2.178 | 14.00 | 0.219 | 77.7 | 239.7 | 5.9 | 0.500 |
| 4-4700 | 4-4920 | 1.038 | 170.4 | 9.3 | 9.37 | 1.069 | 29.3 | 0.875 | 1.167 | 146.1 | 183.2 | --- | 2.188 | 11.86 | 0.260 | 68.8 | 239.7 | 6.0 | 0.478 |
| 4-4700 | 4-4940 | 0.992 | 172.4 | 8.0 | 7.44 | 1.078 | 32.5 | 0.848 | 1.194 | 141.7 | 185.1 | --- | 2.208 | 10.39 | 0.299 | 63.9 | 240.3 | 6.0 | 0.463 |
| 4-4700 | 4-4960 | 0.948 | 174.3 | 6.7 | 5.91 | 1.087 | 35.4 | 0.822 | 1.224 | 137.2 | 187.1 | --- | 2.230 | 9.34 | 0.334 | 61.1 | 241.5 | 6.0 | 0.451 |
| 4-4700 | 4-4980 | 0.908 | 176.2 | 5.4 | 4.65 | 1.097 | 38.1 | 0.797 | 1.257 | 132.8 | 189.1 | --- | 2.258 | 8.58 | 0.366 | 59.5 | 243.2 | 6.1 | 0.442 |
| 4-4700 | 4-5000 | 0.869 | 178.1 | 4.1 | 3.56 | 1.106 | 40.7 | 0.772 | 1.291 | 128.3 | 191.0 | --- | 2.287 | 8.03 | 0.393 | 58.6 | 245.5 | 6.2 | 0.435 |
| 4-4700 | 4-5020 | 0.831 | 179.9 | 2.6 | 2.59 | 1.116 | 43.2 | 0.748 | 1.326 | 123.8 | 193.0 | --- | 2.318 | 7.63 | 0.417 | 58.3 | 248.2 | 6.3 | 0.429 |
| 4-4700 | 4-5040 | 0.795 | 181.7 | 1.1 | 1.70 | 1.125 | 45.6 | 0.725 | 1.362 | 119.2 | 194.8 | --- | 2.350 | 7.38 | 0.438 | 58.2 | 251.2 | 6.5 | 0.423 |
| 4-4700 | 4-5060 | 0.760 | 183.4 | -0.4 | 0.87 | 1.133 | 47.9 | 0.703 | 1.399 | 114.6 | 196.7 | --- | 2.382 | 7.20 | 0.456 | 58.3 | 254.5 | 6.7 | 0.418 |
| 4-4700 | 4-5080 | 0.726 | 185.1 | -2.1 | 0.07 | 1.141 | 50.1 | 0.682 | 1.435 | 110.0 | 198.4 | --- | 2.415 | 7.13 | 0.472 | 58.6 | 258.1 | 7.0 | 0.413 |
| 4-4700 | 4-5100 | 0.693 | 186.7 | -3.9 | -0.72 | 1.149 | 52.2 | 0.663 | 1.472 | 105.4 | 200.0 | --- | 2.447 | 7.15 | 0.485 | 58.9 | 261.9 | 7.3 | 0.408 |
| 4-4700 | 4-5120 | 0.662 | 188.3 | -5.9 | -1.52 | 1.156 | 54.3 | 0.645 | 1.508 | 100.7 | 201.6 | --- | 2.480 | 7.26 | 0.496 | 59.3 | 265.8 | 7.7 | 0.403 |
| 4-4700 | 4-5140 | 0.632 | 189.9 | -8.1 | -2.33 | 1.162 | 56.2 | 0.628 | 1.544 | 96.0 | 203.1 | --- | 2.513 | 7.46 | 0.505 | 59.8 | 269.9 | 8.2 | 0.399 |
| 4-4700 | 4-5160 | 0.603 | 191.3 | -10.6 | -3.20 | 1.169 | 58.1 | 0.613 | 1.579 | 91.3 | 204.5 | --- | 2.546 | 7.76 | 0.513 | 60.2 | 274.1 | 8.8 | 0.394 |
| 4-4700 | 4-5180 | 0.576 | 192.7 | -13.4 | -4.12 | 1.174 | 60.0 | 0.599 | 1.614 | 86.7 | 205.7 | --- | 2.579 | 8.16 | 0.520 | 60.6 | 278.4 | 9.5 | 0.390 |
| 4-4700 | 4-5200 | 0.550 | 193.8 | -16.5 | -5.15 | 1.180 | 61.8 | 0.586 | 1.648 | 82.0 | 206.9 | --- | 2.613 | 8.71 | 0.525 | 60.9 | 282.8 | 10.4 | 0.387 |
| 4-4700 | 4-5220 | 0.527 | 194.8 | -20.2 | -6.31 | 1.185 | 63.5 | 0.574 | 1.681 | 77.4 | 208.1 | --- | 2.646 | 9.42 | 0.530 | 61.3 | 287.3 | 11.5 | 0.383 |
| 4-4700 | 4-5240 | 0.508 | 195.4 | -24.5 | -7.67 | 1.190 | 65.2 | 0.564 | 1.713 | 72.8 | 209.1 | --- | 2.680 | 10.36 | 0.534 | 61.6 | 291.8 | 12.8 | 0.381 |
| 4-4700 | 4-5260 | 0.493 | 195.4 | -29.5 | -9.31 | 1.194 | 66.9 | 0.555 | 1.745 | 68.2 | 210.1 | --- | 2.714 | 11.60 | 0.537 | 61.8 | 296.5 | 14.5 | 0.380 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

| DEPART | ARRIVE | SPEED | R A | DECL | I 1 | V 1 | PSI 1 | ECCEN | SMA | THET1 | THET2 | PERIH | APHEL | I 2 | V 2 | PSI 2 | R A | DECL | SPEED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-4700 | 4-5280 | 0.486 | 194.3 | -35.5 | -11.38 | 1.198 | 68.4 | 0.548 | 1.776 | 63.7 | 211.0 | --- | 2.748 | 13.29 | 0.539 | 62.0 | 301.3 | 16.7 | 0.381 |
| 4-4700 | 4-5300 | 0.491 | 191.4 | -42.4 | -14.09 | 1.202 | 70.0 | 0.541 | 1.806 | 59.3 | 211.9 | --- | 2.782 | 15.64 | 0.541 | 62.1 | 306.4 | 19.6 | 0.385 |
| 4-4700 | 4-5320 | 0.516 | 184.8 | -50.0 | -17.90 | 1.206 | 71.5 | 0.536 | 1.835 | 55.0 | 212.7 | --- | 2.817 | 19.10 | 0.543 | 62.2 | 312.0 | 23.4 | 0.395 |
| 4-4700 | 4-5340 | 0.578 | 170.9 | -56.9 | -23.67 | 1.209 | 72.9 | 0.532 | 1.863 | 50.8 | 213.4 | --- | 2.853 | 24.54 | 0.544 | 62.2 | 318.8 | 28.5 | 0.419 |
| 4-4700 | 4-5360 | 0.715 | 147.0 | -58.8 | -33.40 | 1.212 | 74.1 | 0.529 | 1.890 | 47.0 | 214.2 | --- | 2.890 | 33.93 | 0.545 | 62.2 | 328.1 | 34.8 | 0.471 |

DEPART ARRIVE SPEED R A DECL I 1 V 1 PSI 1 ECCEN SMA THET1 THET2 PERIH APHEL I 2 V 2 PSI 2 R A DECL SPEED

# SECTION 4

# PLANETARY POSITION AND VELOCITY DATA

# EARTH POSITION AND VELOCITY DATA

# FOR THE YEARS 1969-2000

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 0230.5 | 108.30 | -0.00 | 0.9834 | -0.3087 | 0.9337 | -0.0000 | -0.9659 | -0.3175 | 0.0000 | 0. | 0230.5 |
| 0240.5 | 118.48 | -0.00 | 0.9839 | -0.4692 | 0.8648 | -0.0000 | -0.8954 | -0.4805 | 0.0000 | 0. | 0240.5 |
| 0250.5 | 128.65 | -0.00 | 0.9850 | -0.6152 | 0.7692 | -0.0000 | -0.7974 | -0.6282 | 0.0000 | 0. | 0250.5 |
| 0260.5 | 138.79 | -0.00 | 0.9865 | -0.7422 | 0.6499 | -0.0000 | -0.6752 | -0.7560 | 0.0000 | 0. | 0260.5 |
| 0270.5 | 148.90 | -0.00 | 0.9884 | -0.8463 | 0.5105 | -0.0000 | -0.5329 | -0.8599 | 0.0000 | 0. | 0270.5 |
| 0280.5 | 158.97 | -0.00 | 0.9907 | -0.9247 | 0.3556 | -0.0000 | -0.3753 | -0.9370 | 0.0000 | 0. | 0280.5 |
| 0290.5 | 168.98 | -0.00 | 0.9932 | -0.9749 | 0.1898 | -0.0000 | -0.2075 | -0.9852 | 0.0000 | 0. | 0290.5 |
| 0300.5 | 178.95 | 0.00 | 0.9959 | -0.9958 | 0.0183 | 0.0000 | -0.0347 | -1.0035 | 0.0000 | 0. | 0300.5 |
| 0310.5 | 188.85 | 0.00 | 0.9988 | -0.9869 | -0.1537 | 0.0000 | 0.1376 | -0.9917 | 0.0000 | 0. | 0310.5 |
| 0320.5 | 198.70 | 0.00 | 1.0016 | -0.9487 | -0.3212 | 0.0000 | 0.3044 | -0.9508 | 0.0000 | 0. | 0320.5 |
| 0330.5 | 208.50 | 0.00 | 1.0045 | -0.8827 | -0.4793 | 0.0000 | 0.4609 | -0.8825 | 0.0000 | 0. | 0330.5 |
| 0340.5 | 218.24 | 0.00 | 1.0071 | -0.7910 | -0.6234 | 0.0000 | 0.6027 | -0.7890 | 0.0000 | 0. | 0340.5 |
| 0350.5 | 227.93 | 0.00 | 1.0096 | -0.6764 | -0.7495 | 0.0000 | 0.7261 | -0.6736 | 0.0000 | 0. | 0350.5 |
| 0360.5 | 237.58 | 0.00 | 1.0118 | -0.5424 | -0.8541 | 0.0000 | 0.8279 | -0.5397 | 0.0000 | 0. | 0360.5 |
| 0370.5 | 247.19 | 0.00 | 1.0136 | -0.3930 | -0.9343 | 0.0000 | 0.9056 | -0.3913 | 0.0000 | 0. | 0370.5 |
| 0380.5 | 256.77 | 0.00 | 1.0151 | -0.2324 | -0.9881 | 0.0000 | 0.9572 | -0.2325 | 0.0000 | 0. | 0380.5 |
| 0390.5 | 266.32 | 0.00 | 1.0161 | -0.0652 | -1.0140 | 0.0000 | 0.9817 | -0.0677 | -0.0000 | 0. | 0390.5 |
| 0400.5 | 275.86 | 0.00 | 1.0166 | 0.1038 | -1.0113 | 0.0000 | 0.9786 | 0.0986 | -0.0000 | 0. | 0400.5 |
| 0410.5 | 285.39 | 0.00 | 1.0167 | 0.2699 | -0.9802 | 0.0000 | 0.9479 | 0.2620 | -0.0000 | 0. | 0410.5 |
| 0420.5 | 294.93 | 0.00 | 1.0163 | 0.4284 | -0.9216 | 0.0000 | 0.8906 | 0.4181 | -0.0000 | 0. | 0420.5 |
| 0430.5 | 304.48 | 0.00 | 1.0154 | 0.5748 | -0.8371 | 0.0000 | 0.8081 | 0.5627 | -0.0000 | 0. | 0430.5 |
| 0440.5 | 314.05 | 0.00 | 1.0141 | 0.7051 | -0.7289 | 0.0000 | 0.7025 | 0.6918 | -0.0000 | 0. | 0440.5 |
| 0450.5 | 323.65 | 0.00 | 1.0124 | 0.8154 | -0.6001 | 0.0000 | 0.5765 | 0.8020 | -0.0000 | 0. | 0450.5 |
| 0460.5 | 333.28 | 0.00 | 1.0103 | 0.9024 | -0.4543 | 0.0000 | 0.4333 | 0.8898 | -0.0000 | 0. | 0460.5 |
| 0470.5 | 342.96 | 0.00 | 1.0079 | 0.9637 | -0.2954 | 0.0000 | 0.2768 | 0.9527 | -0.0000 | 0. | 0470.5 |
| 0480.5 | 352.68 | 0.00 | 1.0053 | 0.9971 | -0.1281 | 0.0000 | 0.1111 | 0.9885 | -0.0000 | 0. | 0480.5 |
| 0490.5 | 2.46 | -0.00 | 1.0025 | 1.0016 | 0.0430 | -0.0000 | -0.0593 | 0.9957 | -0.0000 | 0. | 0490.5 |
| 0500.5 | 12.29 | -0.00 | 0.9997 | 0.9768 | 0.2128 | -0.0000 | -0.2293 | 0.9737 | -0.0000 | 0. | 0500.5 |
| 0510.5 | 22.18 | -0.00 | 0.9968 | 0.9230 | 0.3763 | -0.0000 | -0.3939 | 0.9226 | -0.0000 | 0. | 0510.5 |
| 0520.5 | 32.13 | -0.00 | 0.9940 | 0.8418 | 0.5286 | -0.0000 | -0.5482 | 0.8435 | -0.0000 | 0. | 0520.5 |
| 0530.5 | 42.13 | -0.00 | 0.9914 | 0.7353 | 0.6650 | -0.0000 | -0.6872 | 0.7382 | -0.0000 | 0. | 0530.5 |
| 0540.5 | 52.18 | -0.00 | 0.9891 | 0.6065 | 0.7813 | -0.0000 | -0.8064 | 0.6098 | -0.0000 | 0. | 0540.5 |
| 0550.5 | 62.27 | -0.00 | 0.9871 | 0.4593 | 0.8737 | -0.0000 | -0.9016 | 0.4618 | -0.0000 | 0. | 0550.5 |
| 0560.5 | 72.40 | -0.00 | 0.9854 | 0.2979 | 0.9393 | -0.0000 | -0.9697 | 0.2988 | -0.0000 | 0. | 0560.5 |
| 0570.5 | 82.57 | -0.00 | 0.9842 | 0.1273 | 0.9759 | -0.0000 | -1.0081 | 0.1259 | -0.0000 | 0. | 0570.5 |
| 0580.5 | 92.75 | -0.00 | 0.9835 | -0.0471 | 0.9824 | -0.0000 | -1.0153 | -0.0515 | 0.0000 | 0. | 0580.5 |
| 0590.5 | 102.94 | -0.00 | 0.9833 | -0.2202 | 0.9583 | -0.0000 | -0.9911 | -0.2275 | 0.0000 | 0. | 0590.5 |
| 0600.5 | 113.13 | -0.00 | 0.9836 | -0.3864 | 0.9045 | -0.0000 | -0.9361 | -0.3964 | 0.0000 | 0. | 0600.5 |
| 0610.5 | 123.31 | -0.00 | 0.9844 | -0.5406 | 0.8227 | -0.0000 | -0.8522 | -0.5527 | 0.0000 | 0. | 0610.5 |
| 0620.5 | 133.47 | -0.00 | 0.9856 | -0.6781 | 0.7154 | -0.0000 | -0.7422 | -0.6915 | 0.0000 | 0. | 0620.5 |
| 0630.5 | 143.59 | -0.00 | 0.9873 | -0.7946 | 0.5860 | -0.0000 | -0.6099 | -0.8085 | 0.0000 | 0. | 0630.5 |
| 0640.5 | 153.68 | -0.00 | 0.9894 | -0.8869 | 0.4387 | -0.0000 | -0.4598 | -0.9000 | 0.0000 | 0. | 0640.5 |
| 0650.5 | 163.72 | -0.00 | 0.9918 | -0.9521 | 0.2780 | -0.0000 | -0.2966 | -0.9636 | 0.0000 | 0. | 0650.5 |
| 0660.5 | 173.72 | -0.00 | 0.9945 | -0.9885 | 0.1089 | -0.0000 | -0.1258 | -0.9977 | 0.0000 | 0. | 0660.5 |
| 0670.5 | 183.65 | 0.00 | 0.9973 | -0.9952 | -0.0635 | 0.0000 | 0.0474 | -1.0016 | 0.0000 | 0. | 0670.5 |
| 0680.5 | 193.53 | 0.00 | 1.0001 | -0.9724 | -0.2340 | 0.0000 | 0.2177 | -0.9759 | 0.0000 | 0. | 0680.5 |
| 0690.5 | 203.36 | 0.00 | 1.0030 | -0.9208 | -0.3977 | 0.0000 | 0.3802 | -0.9217 | 0.0000 | 0. | 0690.5 |
| 0700.5 | 213.13 | 0.00 | 1.0057 | -0.8423 | -0.5496 | 0.0000 | 0.5302 | -0.8411 | 0.0000 | 0. | 0700.5 |
| 0710.5 | 222.84 | 0.00 | 1.0083 | -0.7393 | -0.6857 | 0.0000 | 0.6638 | -0.7368 | 0.0000 | 0. | 0710.5 |
| 0720.5 | 232.51 | 0.00 | 1.0107 | -0.6151 | -0.8020 | 0.0000 | 0.7773 | -0.6122 | 0.0000 | 0. | 0720.5 |
| 0730.5 | 242.14 | 0.00 | 1.0127 | -0.4732 | -0.8953 | 0.0000 | 0.8679 | -0.4709 | 0.0000 | 0. | 0730.5 |
| 0740.5 | 251.73 | 0.00 | 1.0143 | -0.3179 | -0.9632 | 0.0000 | 0.9334 | -0.3170 | 0.0000 | 0. | 0740.5 |
| 0750.5 | 261.30 | 0.00 | 1.0156 | -0.1536 | -1.0039 | 0.0000 | 0.9723 | -0.1548 | 0.0000 | 0. | 0750.5 |
| 0760.5 | 270.85 | 0.00 | 1.0164 | 0.0150 | -1.0163 | 0.0000 | 0.9837 | 0.0113 | -0.0000 | 0. | 0760.5 |
| 0770.5 | 280.38 | 0.00 | 1.0167 | 0.1832 | -1.0001 | 0.0000 | 0.9674 | 0.1767 | -0.0000 | 0. | 0770.5 |
| 0780.5 | 289.92 | 0.00 | 1.0166 | 0.3463 | -0.9558 | 0.0000 | 0.9240 | 0.3372 | -0.0000 | 0. | 0780.5 |
| 0790.5 | 299.46 | 0.00 | 1.0159 | 0.4996 | -0.8846 | 0.0000 | 0.8545 | 0.4883 | -0.0000 | 0. | 0790.5 |
| 0800.5 | 309.01 | 0.00 | 1.0149 | 0.6389 | -0.7885 | 0.0000 | 0.7607 | 0.6261 | -0.0000 | 0. | 0800.5 |
| 0810.5 | 318.60 | 0.00 | 1.0134 | 0.7601 | -0.6702 | 0.0000 | 0.6451 | 0.7467 | -0.0000 | 0. | 0810.5 |
| 0820.5 | 328.21 | 0.00 | 1.0115 | 0.8597 | -0.5328 | 0.0000 | 0.5105 | 0.8466 | -0.0000 | 0. | 0820.5 |
| 0830.5 | 337.86 | 0.00 | 1.0092 | 0.9348 | -0.3803 | 0.0000 | 0.3605 | 0.9229 | -0.0000 | 0. | 0830.5 |
| 0840.5 | 347.56 | 0.00 | 1.0067 | 0.9831 | -0.2168 | 0.0000 | 0.1990 | 0.9732 | -0.0000 | 0. | 0840.5 |
| 0850.5 | 357.31 | -0.00 | 1.0040 | 1.0029 | -0.0471 | -0.0000 | 0.0305 | 0.9955 | -0.0000 | 0. | 0850.5 |
| 0860.5 | 7.12 | -0.00 | 1.0012 | 0.9935 | 0.1240 | -0.0000 | -0.1403 | 0.9889 | -0.0000 | 0. | 0860.5 |
| 0870.5 | 16.98 | -0.00 | 0.9983 | 0.9548 | 0.2915 | -0.0000 | -0.3084 | 0.9530 | -0.0000 | 0. | 0870.5 |
| 0880.5 | 26.89 | -0.00 | 0.9955 | 0.8878 | 0.4503 | -0.0000 | -0.4687 | 0.8885 | -0.0000 | 0. | 0880.5 |
| 0890.5 | 36.86 | -0.00 | 0.9928 | 0.7943 | 0.5956 | -0.0000 | -0.6164 | 0.7967 | -0.0000 | 0. | 0890.5 |
| 0900.5 | 46.89 | -0.00 | 0.9903 | 0.6768 | 0.7229 | -0.0000 | -0.7465 | 0.6800 | -0.0000 | 0. | 0900.5 |
| 0910.5 | 56.96 | -0.00 | 0.9881 | 0.5387 | 0.8283 | -0.0000 | -0.8548 | 0.5418 | -0.0000 | 0. | 0910.5 |
| 0920.5 | 67.07 | -0.00 | 0.9862 | 0.3842 | 0.9083 | -0.0000 | -0.9375 | 0.3861 | -0.0000 | 0. | 0920.5 |
| 0930.5 | 77.22 | -0.00 | 0.9848 | 0.2178 | 0.9604 | -0.0000 | -0.9917 | 0.2177 | -0.0000 | 0. | 0930.5 |
| 0940.5 | 87.39 | -0.00 | 0.9838 | 0.0447 | 0.9828 | -0.0000 | -1.0155 | 0.0420 | 0.0000 | 0. | 0940.5 |
| 0950.5 | 97.58 | -0.00 | 0.9833 | -0.1297 | 0.9747 | -0.0000 | -1.0077 | -0.1355 | 0.0000 | 0. | 0950.5 |
| 244 | | | | | | | | | | | 244 |

EARTH-MOON BARYCENTER

1971 - 1972
244 0960.5 - 244 1680.5

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | HELIOCENTRIC ECLIPTIC POSITION RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 0960.5 | 107.77 | -0.00 | 0.9834 | -0.3002 | 0.9364 | -0.0000 | -0.9688 | -0.3088 | 0.0000 | 0. | 0960.5 |
| 0970.5 | 117.96 | -0.00 | 0.9839 | -0.4613 | 0.8690 | -0.0000 | -0.8997 | -0.4724 | 0.0000 | 0. | 0970.5 |
| 0980.5 | 128.13 | -0.00 | 0.9849 | -0.6081 | 0.7747 | -0.0000 | -0.8031 | -0.6211 | 0.0000 | 0. | 0980.5 |
| 0990.5 | 138.27 | -0.00 | 0.9864 | -0.7362 | 0.6565 | -0.0000 | -0.6820 | -0.7500 | 0.0000 | 0. | 0990.5 |
| 1000.5 | 148.38 | -0.00 | 0.9883 | -0.8416 | 0.5181 | -0.0000 | -0.5406 | -0.8552 | 0.0000 | 0. | 1000.5 |
| 1010.5 | 158.45 | -0.00 | 0.9905 | -0.9213 | 0.3638 | -0.0000 | -0.3837 | -0.9338 | 0.0000 | 0. | 1010.5 |
| 1020.5 | 168.47 | -0.00 | 0.9931 | -0.9730 | 0.1985 | -0.0000 | -0.2162 | -0.9835 | 0.0000 | 0. | 1020.5 |
| 1030.5 | 178.44 | 0.00 | 0.9958 | -0.9954 | 0.0272 | 0.0000 | -0.0436 | -1.0033 | 0.0000 | 0. | 1030.5 |
| 1040.5 | 188.35 | 0.00 | 0.9986 | -0.9880 | -0.1450 | 0.0000 | 0.1288 | -0.9931 | 0.0000 | 0. | 1040.5 |
| 1050.5 | 198.20 | 0.00 | 1.0015 | -0.9514 | -0.3128 | 0.0000 | 0.2960 | -0.9536 | 0.0000 | 0. | 1050.5 |
| 1060.5 | 208.00 | 0.00 | 1.0043 | -0.8868 | -0.4715 | 0.0000 | 0.4532 | -0.8866 | 0.0000 | 0. | 1060.5 |
| 1070.5 | 217.74 | 0.00 | 1.0070 | -0.7963 | -0.6164 | 0.0000 | 0.5959 | -0.7944 | 0.0000 | 0. | 1070.5 |
| 1080.5 | 227.44 | 0.00 | 1.0095 | -0.6828 | -0.7435 | 0.0000 | 0.7203 | -0.6800 | 0.0000 | 0. | 1080.5 |
| 1090.5 | 237.09 | 0.00 | 1.0117 | -0.5497 | -0.8493 | 0.0000 | 0.8233 | -0.5470 | 0.0000 | 0. | 1090.5 |
| 1100.5 | 246.70 | 0.00 | 1.0135 | -0.4010 | -0.9308 | 0.0000 | 0.9022 | -0.3992 | 0.0000 | 0. | 1100.5 |
| 1110.5 | 256.28 | 0.00 | 1.0150 | -0.2408 | -0.9860 | 0.0000 | 0.9552 | -0.2408 | 0.0000 | 0. | 1110.5 |
| 1120.5 | 265.83 | 0.00 | 1.0160 | -0.0739 | -1.0133 | 0.0000 | 0.9811 | -0.0762 | -0.0000 | 0. | 1120.5 |
| 1130.5 | 275.37 | 0.00 | 1.0166 | 0.0952 | -1.0121 | 0.0000 | 0.9794 | 0.0901 | -0.0000 | 0. | 1130.5 |
| 1140.5 | 284.90 | 0.00 | 1.0167 | 0.2615 | -0.9825 | 0.0000 | 0.9501 | 0.2537 | -0.0000 | 0. | 1140.5 |
| 1150.5 | 294.44 | 0.00 | 1.0163 | 0.4205 | -0.9253 | 0.0000 | 0.8942 | 0.4103 | -0.0000 | 0. | 1150.5 |
| 1160.5 | 303.99 | 0.00 | 1.0155 | 0.5677 | -0.8420 | 0.0000 | 0.8129 | 0.5556 | -0.0000 | 0. | 1160.5 |
| 1170.5 | 313.56 | 0.00 | 1.0142 | 0.6989 | -0.7350 | 0.0000 | 0.7084 | 0.6856 | -0.0000 | 0. | 1170.5 |
| 1180.5 | 323.15 | 0.00 | 1.0125 | 0.8102 | -0.6072 | 0.0000 | 0.5834 | 0.7968 | -0.0000 | 0. | 1180.5 |
| 1190.5 | 332.78 | 0.00 | 1.0104 | 0.8986 | -0.4621 | 0.0000 | 0.4410 | 0.8859 | -0.0000 | 0. | 1190.5 |
| 1200.5 | 342.46 | 0.00 | 1.0081 | 0.9612 | -0.3038 | 0.0000 | 0.2851 | 0.9501 | -0.0000 | 0. | 1200.5 |
| 1210.5 | 352.18 | 0.00 | 1.0055 | 0.9961 | -0.1368 | 0.0000 | 0.1197 | 0.9873 | -0.0000 | 0. | 1210.5 |
| 1220.5 | 1.96 | -0.00 | 1.0027 | 1.0021 | 0.0342 | -0.0000 | -0.0505 | 0.9960 | -0.0000 | 0. | 1220.5 |
| 1230.5 | 11.79 | -0.00 | 0.9998 | 0.9787 | 0.2042 | -0.0000 | -0.2206 | 0.9755 | -0.0000 | 0. | 1230.5 |
| 1240.5 | 21.67 | -0.00 | 0.9970 | 0.9265 | 0.3682 | -0.0000 | -0.3857 | 0.9259 | -0.0000 | 0. | 1240.5 |
| 1250.5 | 31.62 | -0.00 | 0.9942 | 0.8466 | 0.5212 | -0.0000 | -0.5406 | 0.8482 | -0.0000 | 0. | 1250.5 |
| 1260.5 | 41.61 | -0.00 | 0.9916 | 0.7413 | 0.6585 | -0.0000 | -0.6805 | 0.7442 | -0.0000 | 0. | 1260.5 |
| 1270.5 | 51.66 | -0.00 | 0.9892 | 0.6136 | 0.7759 | -0.0000 | -0.8008 | 0.6169 | -0.0000 | 0. | 1270.5 |
| 1280.5 | 61.75 | -0.00 | 0.9872 | 0.4672 | 0.8696 | -0.0000 | -0.8974 | 0.4698 | -0.0000 | 0. | 1280.5 |
| 1290.5 | 71.88 | -0.00 | 0.9855 | 0.3064 | 0.9366 | -0.0000 | -0.9669 | 0.3075 | -0.0000 | 0. | 1290.5 |
| 1300.5 | 82.04 | -0.00 | 0.9843 | 0.1362 | 0.9748 | -0.0000 | -1.0069 | 0.1349 | -0.0000 | 0. | 1300.5 |
| 1310.5 | 92.22 | -0.00 | 0.9835 | -0.0382 | 0.9828 | -0.0000 | -1.0157 | -0.0423 | 0.0000 | 0. | 1310.5 |
| 1320.5 | 102.42 | -0.00 | 0.9833 | -0.2114 | 0.9603 | -0.0000 | -0.9931 | -0.2186 | 0.0000 | 0. | 1320.5 |
| 1330.5 | 112.61 | -0.00 | 0.9835 | -0.3781 | 0.9080 | -0.0000 | -0.9396 | -0.3880 | 0.0000 | 0. | 1330.5 |
| 1340.5 | 122.79 | -0.00 | 0.9843 | -0.5330 | 0.8275 | -0.0000 | -0.8572 | -0.5451 | 0.0000 | 0. | 1340.5 |
| 1350.5 | 132.95 | -0.00 | 0.9856 | -0.6715 | 0.7214 | -0.0000 | -0.7484 | -0.6849 | 0.0000 | 0. | 1350.5 |
| 1360.5 | 143.08 | -0.00 | 0.9872 | -0.7892 | 0.5931 | -0.0000 | -0.6172 | -0.8031 | 0.0000 | 0. | 1360.5 |
| 1370.5 | 153.17 | -0.00 | 0.9893 | -0.8828 | 0.4466 | -0.0000 | -0.4678 | -0.8960 | 0.0000 | 0. | 1370.5 |
| 1380.5 | 163.21 | -0.00 | 0.9917 | -0.9494 | 0.2865 | -0.0000 | -0.3052 | -0.9610 | 0.0000 | 0. | 1380.5 |
| 1390.5 | 173.20 | -0.00 | 0.9943 | -0.9873 | 0.1176 | -0.0000 | -0.1347 | -0.9966 | 0.0001 | 0. | 1390.5 |
| 1400.5 | 183.14 | 0.00 | 0.9971 | -0.9956 | -0.0547 | 0.0000 | 0.0385 | -1.0022 | 0.0001 | 0. | 1400.5 |
| 1410.5 | 193.03 | 0.00 | 1.0000 | -0.9742 | -0.2254 | 0.0000 | 0.2091 | -0.9779 | 0.0000 | 0. | 1410.5 |
| 1420.5 | 202.86 | 0.00 | 1.0028 | -0.9241 | -0.3895 | 0.0000 | 0.3721 | -0.9251 | 0.0000 | 0. | 1420.5 |
| 1430.5 | 212.63 | 0.00 | 1.0056 | -0.8469 | -0.5422 | 0.0000 | 0.5229 | -0.8458 | 0.0000 | 0. | 1430.5 |
| 1440.5 | 222.35 | 0.00 | 1.0082 | -0.7451 | -0.6791 | 0.0000 | 0.6574 | -0.7427 | 0.0000 | 0. | 1440.5 |
| 1450.5 | 232.02 | 0.00 | 1.0106 | -0.6219 | -0.7965 | 0.0000 | 0.7720 | -0.6190 | 0.0000 | 0. | 1450.5 |
| 1460.5 | 241.65 | 0.00 | 1.0126 | -0.4809 | -0.8911 | 0.0000 | 0.8638 | -0.4785 | 0.0000 | 0. | 1460.5 |
| 1470.5 | 251.24 | 0.00 | 1.0143 | -0.3261 | -0.9604 | 0.0001 | 0.9307 | -0.3251 | 0.0000 | 0. | 1470.5 |
| 1480.5 | 260.81 | 0.00 | 1.0155 | -0.1622 | -1.0025 | 0.0001 | 0.9710 | -0.1632 | 0.0000 | 0. | 1480.5 |
| 1490.5 | 270.36 | 0.00 | 1.0164 | 0.0063 | -1.0163 | 0.0001 | 0.9838 | 0.0027 | -0.0000 | 0. | 1490.5 |
| 1500.5 | 279.89 | 0.00 | 1.0167 | 0.1747 | -1.0016 | 0.0001 | 0.9689 | 0.1683 | -0.0000 | 0. | 1500.5 |
| 1510.5 | 289.43 | 0.00 | 1.0166 | 0.3381 | -0.9587 | 0.0000 | 0.9268 | 0.3291 | -0.0000 | 0. | 1510.5 |
| 1520.5 | 298.97 | 0.00 | 1.0160 | 0.4921 | -0.8889 | 0.0000 | 0.8587 | 0.4809 | -0.0000 | 0. | 1520.5 |
| 1530.5 | 308.52 | 0.00 | 1.0149 | 0.6321 | -0.7940 | 0.0000 | 0.7661 | 0.6194 | -0.0000 | 0. | 1530.5 |
| 1540.5 | 318.10 | 0.00 | 1.0134 | 0.7544 | -0.6767 | 0.0000 | 0.6515 | 0.7410 | -0.0000 | 0. | 1540.5 |
| 1550.5 | 327.72 | 0.00 | 1.0116 | 0.8552 | -0.5403 | 0.0000 | 0.5178 | 0.8420 | -0.0000 | 0. | 1550.5 |
| 1560.5 | 337.37 | 0.00 | 1.0093 | 0.9316 | -0.3884 | 0.0000 | 0.3685 | 0.9196 | -0.0000 | 0. | 1560.5 |
| 1570.5 | 347.07 | 0.00 | 1.0069 | 0.9813 | -0.2254 | 0.0000 | 0.2075 | 0.9712 | -0.0001 | 0. | 1570.5 |
| 1580.5 | 356.81 | -0.00 | 1.0042 | 1.0026 | -0.0558 | -0.0000 | 0.0393 | 0.9951 | -0.0001 | 0. | 1580.5 |
| 1590.5 | 6.61 | -0.00 | 1.0013 | 0.9947 | 0.1153 | -0.0000 | -0.1315 | 0.9900 | -0.0001 | 0. | 1590.5 |
| 1600.5 | 16.47 | -0.00 | 0.9985 | 0.9575 | 0.2831 | -0.0000 | -0.2999 | 0.9556 | -0.0000 | 0. | 1600.5 |
| 1610.5 | 26.38 | -0.00 | 0.9956 | 0.8919 | 0.4424 | -0.0000 | -0.4608 | 0.8925 | -0.0000 | 0. | 1610.5 |
| 1620.5 | 36.35 | -0.00 | 0.9929 | 0.7997 | 0.5885 | -0.0000 | -0.6092 | 0.8020 | -0.0000 | 0. | 1620.5 |
| 1630.5 | 46.37 | -0.00 | 0.9904 | 0.6833 | 0.7169 | -0.0000 | -0.7403 | 0.6865 | -0.0000 | 0. | 1630.5 |
| 1640.5 | 56.44 | -0.00 | 0.9882 | 0.5462 | 0.8235 | -0.0000 | -0.8498 | 0.5493 | -0.0000 | 0. | 1640.5 |
| 1650.5 | 66.55 | -0.00 | 0.9863 | 0.3924 | 0.9049 | -0.0000 | -0.9339 | 0.3944 | -0.0000 | 0. | 1650.5 |
| 1660.5 | 76.70 | -0.00 | 0.9849 | 0.2266 | 0.9584 | -0.0001 | -0.9897 | 0.2266 | -0.0000 | 0. | 1660.5 |
| 1670.5 | 86.87 | -0.00 | 0.9839 | 0.0537 | 0.9824 | -0.0001 | -1.0150 | 0.0511 | 0.0000 | 0. | 1670.5 |
| 1680.5 | 97.06 | -0.00 | 0.9833 | -0.1208 | 0.9759 | -0.0001 | -1.0089 | -0.1264 | 0.0000 | 0. | 1680.5 |
| 244 | | | | | | | | | | | 244 |

EARTH-MOON BARYCENTER

1973 - 1974
244 1690.5 - 244 2410.5

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 | | | | | | | | | | | 244 |
| 1690.5 | 107.25 | -0.00 | 0.9833 | -0.2916 | 0.9391 | -0.0000 | -0.9715 | -0.3001 | 0.0000 | 0. | 1690.5 |
| 1700.5 | 117.44 | -0.00 | 0.9839 | -0.4533 | 0.8732 | -0.0000 | -0.9040 | -0.4644 | 0.0000 | 0. | 1700.5 |
| 1710.5 | 127.61 | -0.00 | 0.9849 | -0.6010 | 0.7802 | -0.0000 | -0.8087 | -0.6139 | 0.0000 | 0. | 1710.5 |
| 1720.5 | 137.76 | -0.00 | 0.9863 | -0.7301 | 0.6631 | -0.0000 | -0.6887 | -0.7439 | 0.0000 | 0. | 1720.5 |
| 1730.5 | 147.87 | -0.00 | 0.9882 | -0.8368 | 0.5256 | -0.0000 | -0.5483 | -0.8505 | 0.0000 | 0. | 1730.5 |
| 1740.5 | 157.94 | -0.00 | 0.9904 | -0.9179 | 0.3720 | -0.0000 | -0.3920 | -0.9304 | 0.0001 | 0. | 1740.5 |
| 1750.5 | 167.96 | -0.00 | 0.9929 | -0.9711 | 0.2072 | -0.0000 | -0.2250 | -0.9817 | 0.0001 | 0. | 1750.5 |
| 1760.5 | 177.93 | 0.00 | 0.9956 | -0.9950 | 0.0360 | 0.0000 | -0.0525 | -1.0030 | 0.0001 | 0. | 1760.5 |
| 1770.5 | 187.84 | 0.00 | 0.9985 | -0.9891 | -0.1362 | 0.0000 | 0.1201 | -0.9943 | 0.0001 | 0. | 1770.5 |
| 1780.5 | 197.70 | 0.00 | 1.0013 | -0.9540 | -0.3044 | 0.0000 | 0.2877 | -0.9563 | 0.0000 | 0. | 1780.5 |
| 1790.5 | 207.50 | 0.00 | 1.0042 | -0.8907 | -0.4636 | 0.0000 | 0.4454 | -0.8907 | 0.0000 | 0. | 1790.5 |
| 1800.5 | 217.24 | 0.00 | 1.0069 | -0.8015 | -0.6094 | 0.0000 | 0.5890 | -0.7997 | 0.0000 | 0. | 1800.5 |
| 1810.5 | 226.94 | 0.00 | 1.0093 | -0.6891 | -0.7375 | 0.0000 | 0.7144 | -0.6864 | 0.0000 | 0. | 1810.5 |
| 1820.5 | 236.59 | 0.00 | 1.0116 | -0.5570 | -0.8444 | 0.0000 | 0.8185 | -0.5542 | 0.0000 | 0. | 1820.5 |
| 1830.5 | 246.20 | 0.00 | 1.0134 | -0.4089 | -0.9273 | 0.0001 | 0.8988 | -0.4071 | 0.0000 | 0. | 1830.5 |
| 1840.5 | 255.78 | 0.00 | 1.0149 | -0.2492 | -0.9838 | 0.0001 | 0.9532 | -0.2491 | 0.0000 | 0. | 1840.5 |
| 1850.5 | 265.34 | 0.00 | 1.0160 | -0.0825 | -1.0126 | 0.0001 | 0.9805 | -0.0848 | -0.0000 | 0. | 1850.5 |
| 1860.5 | 274.88 | 0.00 | 1.0166 | 0.0865 | -1.0129 | 0.0001 | 0.9802 | 0.0816 | -0.0000 | 0. | 1860.5 |
| 1870.5 | 284.42 | 0.00 | 1.0167 | 0.2531 | -0.9847 | 0.0001 | 0.9523 | 0.2455 | -0.0000 | 0. | 1870.5 |
| 1880.5 | 293.95 | 0.00 | 1.0164 | 0.4126 | -0.9288 | 0.0000 | 0.8977 | 0.4025 | -0.0000 | 0. | 1880.5 |
| 1890.5 | 303.50 | 0.00 | 1.0155 | 0.5605 | -0.8469 | 0.0000 | 0.8177 | 0.5485 | -0.0000 | 0. | 1890.5 |
| 1900.5 | 313.07 | 0.00 | 1.0143 | 0.6926 | -0.7410 | 0.0000 | 0.7143 | 0.6794 | -0.0000 | 0. | 1900.5 |
| 1910.5 | 322.66 | 0.00 | 1.0126 | 0.8051 | -0.6142 | 0.0000 | 0.5903 | 0.7916 | -0.0000 | 0. | 1910.5 |
| 1920.5 | 332.29 | 0.00 | 1.0106 | 0.8947 | -0.4699 | 0.0000 | 0.4487 | 0.8819 | -0.0000 | 0. | 1920.5 |
| 1930.5 | 341.96 | 0.00 | 1.0082 | 0.9586 | -0.3122 | 0.0000 | 0.2933 | 0.9475 | -0.0001 | 0. | 1930.5 |
| 1940.5 | 351.68 | 0.00 | 1.0056 | 0.9950 | -0.1455 | 0.0000 | 0.1283 | 0.9861 | -0.0001 | 0. | 1940.5 |
| 1950.5 | 1.45 | -0.00 | 1.0028 | 1.0025 | 0.0254 | -0.0000 | -0.0417 | 0.9963 | -0.0001 | 0. | 1950.5 |
| 1960.5 | 11.28 | -0.00 | 1.0000 | 0.9807 | 0.1956 | -0.0000 | -0.2120 | 0.9773 | -0.0001 | 0. | 1960.5 |
| 1970.5 | 21.16 | -0.00 | 0.9971 | 0.9299 | 0.3600 | -0.0000 | -0.3774 | 0.9292 | -0.0000 | 0. | 1970.5 |
| 1980.5 | 31.10 | -0.00 | 0.9943 | 0.8514 | 0.5137 | -0.0000 | -0.5330 | 0.8528 | -0.0000 | 0. | 1980.5 |
| 1990.5 | 41.10 | -0.00 | 0.9917 | 0.7473 | 0.6519 | -0.0000 | -0.6738 | 0.7502 | -0.0000 | 0. | 1990.5 |
| 2000.5 | 51.14 | -0.00 | 0.9893 | 0.6207 | 0.7704 | -0.0000 | -0.7952 | 0.6239 | -0.0000 | 0. | 2000.5 |
| 2010.5 | 61.23 | -0.00 | 0.9872 | 0.4751 | 0.8654 | -0.0000 | -0.8931 | 0.4778 | -0.0000 | 0. | 2010.5 |
| 2020.5 | 71.36 | -0.00 | 0.9856 | 0.3150 | 0.9339 | -0.0001 | -0.9640 | 0.3161 | -0.0000 | 0. | 2020.5 |
| 2030.5 | 81.52 | -0.00 | 0.9843 | 0.1451 | 0.9736 | -0.0001 | -1.0056 | 0.1439 | -0.0000 | 0. | 2030.5 |
| 2040.5 | 91.70 | -0.00 | 0.9835 | -0.0292 | 0.9831 | -0.0001 | -1.0160 | -0.0332 | 0.0000 | 0. | 2040.5 |
| 2050.5 | 101.89 | -0.00 | 0.9833 | -0.2026 | 0.9622 | -0.0001 | -0.9950 | -0.2096 | 0.0000 | 0. | 2050.5 |
| 2060.5 | 112.08 | -0.00 | 0.9835 | -0.3698 | 0.9114 | -0.0000 | -0.9431 | -0.3795 | 0.0000 | 0. | 2060.5 |
| 2070.5 | 122.27 | -0.00 | 0.9843 | -0.5254 | 0.8323 | -0.0000 | -0.8621 | -0.5374 | 0.0000 | 0. | 2070.5 |
| 2080.5 | 132.43 | -0.00 | 0.9855 | -0.6648 | 0.7274 | -0.0000 | -0.7546 | -0.6782 | 0.0000 | 0. | 2080.5 |
| 2090.5 | 142.56 | -0.00 | 0.9872 | -0.7837 | 0.6002 | -0.0000 | -0.6244 | -0.7976 | 0.0000 | 0. | 2090.5 |
| 2100.5 | 152.65 | -0.00 | 0.9892 | -0.8786 | 0.4545 | -0.0000 | -0.4759 | -0.8919 | 0.0001 | 0. | 2100.5 |
| 2110.5 | 162.70 | -0.00 | 0.9916 | -0.9467 | 0.2949 | -0.0000 | -0.3138 | -0.9584 | 0.0001 | 0. | 2110.5 |
| 2120.5 | 172.69 | -0.00 | 0.9942 | -0.9861 | 0.1264 | -0.0000 | -0.1435 | -0.9955 | 0.0001 | 0. | 2120.5 |
| 2130.5 | 182.64 | 0.00 | 0.9970 | -0.9959 | -0.0459 | 0.0000 | 0.0297 | -1.0026 | 0.0001 | 0. | 2130.5 |
| 2140.5 | 192.52 | 0.00 | 0.9998 | -0.9760 | -0.2168 | 0.0000 | 0.2005 | -0.9799 | 0.0001 | 0. | 2140.5 |
| 2150.5 | 202.35 | 0.00 | 1.0027 | -0.9273 | -0.3813 | 0.0000 | 0.3640 | -0.9285 | 0.0000 | 0. | 2150.5 |
| 2160.5 | 212.13 | 0.00 | 1.0055 | -0.8515 | -0.5347 | 0.0000 | 0.5155 | -0.8505 | 0.0000 | 0. | 2160.5 |
| 2170.5 | 221.85 | 0.00 | 1.0081 | -0.7509 | -0.6726 | 0.0000 | 0.6509 | -0.7485 | 0.0000 | 0. | 2170.5 |
| 2180.5 | 231.52 | 0.00 | 1.0104 | -0.6287 | -0.7910 | 0.0000 | 0.7666 | -0.6258 | 0.0000 | 0. | 2180.5 |
| 2190.5 | 241.16 | 0.00 | 1.0125 | -0.4885 | -0.8869 | 0.0001 | 0.8597 | -0.4860 | 0.0000 | 0. | 2190.5 |
| 2200.5 | 250.75 | 0.00 | 1.0142 | -0.3343 | -0.9575 | 0.0001 | 0.9279 | -0.3332 | 0.0000 | 0. | 2200.5 |
| 2210.5 | 260.32 | 0.00 | 1.0155 | -0.1707 | -1.0010 | 0.0001 | 0.9696 | -0.1717 | 0.0000 | 0. | 2210.5 |
| 2220.5 | 269.87 | 0.00 | 1.0163 | -0.0023 | -1.0163 | 0.0001 | 0.9838 | -0.0058 | -0.0000 | 0. | 2220.5 |
| 2230.5 | 279.40 | 0.00 | 1.0167 | 0.1661 | -1.0030 | 0.0001 | 0.9704 | 0.1599 | -0.0000 | 0. | 2230.5 |
| 2240.5 | 288.94 | 0.00 | 1.0166 | 0.3299 | -0.9616 | 0.0001 | 0.9297 | 0.3211 | -0.0000 | 0. | 2240.5 |
| 2250.5 | 298.48 | 0.00 | 1.0160 | 0.4845 | -0.8931 | 0.0000 | 0.8628 | 0.4734 | -0.0000 | 0. | 2250.5 |
| 2260.5 | 308.03 | 0.00 | 1.0150 | 0.6254 | -0.7995 | 0.0000 | 0.7714 | 0.6127 | -0.0000 | 0. | 2260.5 |
| 2270.5 | 317.61 | 0.00 | 1.0135 | 0.7486 | -0.6833 | 0.0000 | 0.6579 | 0.7352 | -0.0000 | 0. | 2270.5 |
| 2280.5 | 327.22 | 0.00 | 1.0117 | 0.8506 | -0.5477 | 0.0000 | 0.5251 | 0.8374 | -0.0000 | 0. | 2280.5 |
| 2290.5 | 336.87 | 0.00 | 1.0095 | 0.9283 | -0.3965 | 0.0000 | 0.3765 | 0.9162 | -0.0001 | 0. | 2290.5 |
| 2300.5 | 346.57 | 0.00 | 1.0070 | 0.9794 | -0.2339 | 0.0000 | 0.2160 | 0.9693 | -0.0001 | 0. | 2300.5 |
| 2310.5 | 356.31 | -0.00 | 1.0043 | 1.0022 | -0.0646 | -0.0000 | 0.0480 | 0.9945 | -0.0001 | 0. | 2310.5 |
| 2320.5 | 6.11 | -0.00 | 1.0015 | 0.9958 | 0.1066 | -0.0000 | -0.1228 | 0.9909 | -0.0001 | 0. | 2320.5 |
| 2330.5 | 15.96 | -0.00 | 0.9986 | 0.9601 | 0.2746 | -0.0000 | -0.2914 | 0.9581 | -0.0001 | 0. | 2330.5 |
| 2340.5 | 25.87 | -0.00 | 0.9958 | 0.8960 | 0.4345 | -0.0000 | -0.4528 | 0.8964 | -0.0000 | 0. | 2340.5 |
| 2350.5 | 35.84 | -0.00 | 0.9931 | 0.8050 | 0.5814 | -0.0000 | -0.6019 | 0.8073 | -0.0000 | 0. | 2350.5 |
| 2360.5 | 45.86 | -0.00 | 0.9905 | 0.6898 | 0.7108 | -0.0000 | -0.7341 | 0.6930 | -0.0000 | 0. | 2360.5 |
| 2370.5 | 55.93 | -0.00 | 0.9883 | 0.5537 | 0.8186 | -0.0000 | -0.8448 | 0.5568 | -0.0000 | 0. | 2370.5 |
| 2380.5 | 66.03 | -0.00 | 0.9864 | 0.4007 | 0.9014 | -0.0001 | -0.9303 | 0.4027 | -0.0000 | 0. | 2380.5 |
| 2390.5 | 76.18 | -0.00 | 0.9849 | 0.2353 | 0.9564 | -0.0001 | -0.9875 | 0.2354 | -0.0000 | 0. | 2390.5 |
| 2400.5 | 86.35 | -0.00 | 0.9839 | 0.0626 | 0.9819 | -0.0001 | -1.0145 | 0.0602 | 0.0000 | 0. | 2400.5 |
| 2410.5 | 96.54 | -0.00 | 0.9834 | -0.1119 | 0.9770 | -0.0001 | -1.0100 | -0.1174 | 0.0000 | 0. | 2410.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | HELIOCENTRIC ECLIPTIC POSITION RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 2420.5 | 106.73 | -0.00 | 0.9833 | -0.2830 | 0.9417 | -0.0001 | -0.9742 | -0.2914 | 0.0000 | 0. | 2420.5 |
| 2430.5 | 116.92 | -0.00 | 0.9838 | -0.4453 | 0.8772 | -0.0000 | -0.9081 | -0.4563 | 0.0000 | 0. | 2430.5 |
| 2440.5 | 127.09 | -0.00 | 0.9848 | -0.5939 | 0.7856 | -0.0000 | -0.8142 | -0.6066 | 0.0000 | 0. | 2440.5 |
| 2450.5 | 137.24 | -0.00 | 0.9862 | -0.7240 | 0.6696 | -0.0000 | -0.6954 | -0.7378 | 0.0000 | 0. | 2450.5 |
| 2460.5 | 147.35 | -0.00 | 0.9881 | -0.8319 | 0.5331 | -0.0000 | -0.5559 | -0.8456 | 0.0001 | 0. | 2460.5 |
| 2470.5 | 157.42 | -0.00 | 0.9903 | -0.9144 | 0.3802 | -0.0000 | -0.4004 | -0.9270 | 0.0001 | 0. | 2470.5 |
| 2480.5 | 167.45 | -0.00 | 0.9928 | -0.9690 | 0.2158 | -0.0000 | -0.2338 | -0.9797 | 0.0001 | 0. | 2480.5 |
| 2490.5 | 177.42 | 0.00 | 0.9955 | -0.9945 | 0.0449 | 0.0000 | -0.0614 | -1.0026 | 0.0001 | 0. | 2490.5 |
| 2500.5 | 187.33 | 0.00 | 0.9983 | -0.9902 | -0.1274 | 0.0000 | 0.1113 | -0.9955 | 0.0001 | 0. | 2500.5 |
| 2510.5 | 197.19 | 0.00 | 1.0012 | -0.9565 | -0.2959 | 0.0000 | 0.2793 | -0.9590 | 0.0001 | 0. | 2510.5 |
| 2520.5 | 207.00 | 0.00 | 1.0040 | -0.8946 | -0.4558 | 0.0000 | 0.4376 | -0.8947 | 0.0000 | 0. | 2520.5 |
| 2530.5 | 216.75 | 0.00 | 1.0067 | -0.8067 | -0.6023 | 0.0000 | 0.5820 | -0.8049 | 0.0000 | 0. | 2530.5 |
| 2540.5 | 226.44 | 0.00 | 1.0092 | -0.6954 | -0.7314 | 0.0000 | 0.7065 | -0.6927 | 0.0000 | 0. | 2540.5 |
| 2550.5 | 236.10 | 0.00 | 1.0115 | -0.5642 | -0.8395 | 0.0001 | 0.8138 | -0.5614 | 0.0000 | 0. | 2550.5 |
| 2560.5 | 245.71 | 0.00 | 1.0133 | -0.4168 | -0.9237 | 0.0001 | 0.8953 | -0.4149 | 0.0000 | 0. | 2560.5 |
| 2570.5 | 255.29 | 0.00 | 1.0149 | -0.2576 | -0.9816 | 0.0001 | 0.9510 | -0.2574 | 0.0000 | 0. | 2570.5 |
| 2580.5 | 264.85 | 0.00 | 1.0159 | -0.0912 | -1.0118 | 0.0001 | 0.9798 | -0.0933 | -0.0000 | 0. | 2580.5 |
| 2590.5 | 274.39 | 0.00 | 1.0166 | 0.0779 | -1.0136 | 0.0001 | 0.9809 | 0.0731 | -0.0000 | 0. | 2590.5 |
| 2600.5 | 283.93 | 0.00 | 1.0167 | 0.2447 | -0.9868 | 0.0001 | 0.9544 | 0.2372 | -0.0000 | 0. | 2600.5 |
| 2610.5 | 293.46 | 0.00 | 1.0164 | 0.4047 | -0.9323 | 0.0001 | 0.9011 | 0.3947 | -0.0000 | 0. | 2610.5 |
| 2620.5 | 303.01 | 0.00 | 1.0156 | 0.5533 | -0.8517 | 0.0000 | 0.8224 | 0.5413 | -0.0000 | 0. | 2620.5 |
| 2630.5 | 312.57 | 0.00 | 1.0143 | 0.6863 | -0.7470 | 0.0000 | 0.7202 | 0.6731 | -0.0000 | 0. | 2630.5 |
| 2640.5 | 322.17 | 0.00 | 1.0127 | 0.7998 | -0.6211 | 0.0000 | 0.5971 | 0.7864 | -0.0000 | 0. | 2640.5 |
| 2650.5 | 331.80 | 0.00 | 1.0107 | 0.8907 | -0.4777 | 0.0000 | 0.4563 | 0.8779 | -0.0001 | 0. | 2650.5 |
| 2660.5 | 341.47 | 0.00 | 1.0083 | 0.9560 | -0.3205 | 0.0000 | 0.3016 | 0.9447 | -0.0001 | 0. | 2660.5 |
| 2670.5 | 351.18 | 0.00 | 1.0057 | 0.9939 | -0.1542 | 0.0000 | 0.1370 | 0.9848 | -0.0001 | 0. | 2670.5 |
| 2680.5 | 0.95 | -0.00 | 1.0030 | 1.0028 | 0.0167 | -0.0000 | -0.0330 | 0.9965 | -0.0001 | 0. | 2680.5 |
| 2690.5 | 10.78 | -0.00 | 1.0001 | 0.9825 | 0.1870 | -0.0000 | -0.2033 | 0.9790 | -0.0001 | 0. | 2690.5 |
| 2700.5 | 20.66 | -0.00 | 0.9973 | 0.9331 | 0.3518 | -0.0000 | -0.3692 | 0.9323 | -0.0001 | 0. | 2700.5 |
| 2710.5 | 30.59 | -0.00 | 0.9945 | 0.8560 | 0.5061 | -0.0000 | -0.5254 | 0.8574 | -0.0000 | 0. | 2710.5 |
| 2720.5 | 40.59 | -0.00 | 0.9918 | 0.7532 | 0.6453 | -0.0000 | -0.6670 | 0.7560 | -0.0000 | 0. | 2720.5 |
| 2730.5 | 50.63 | -0.00 | 0.9894 | 0.6277 | 0.7649 | -0.0000 | -0.7895 | 0.6309 | -0.0000 | 0. | 2730.5 |
| 2740.5 | 60.72 | -0.00 | 0.9873 | 0.4830 | 0.8612 | -0.0001 | -0.8887 | 0.4857 | -0.0000 | 0. | 2740.5 |
| 2750.5 | 70.84 | -0.00 | 0.9856 | 0.3234 | 0.9311 | -0.0001 | -0.9611 | 0.3247 | -0.0000 | 0. | 2750.5 |
| 2760.5 | 81.00 | -0.00 | 0.9844 | 0.1540 | 0.9723 | -0.0001 | -1.0042 | 0.1529 | -0.0000 | 0. | 2760.5 |
| 2770.5 | 91.18 | -0.00 | 0.9836 | -0.0203 | 0.9834 | -0.0001 | -1.0163 | -0.0241 | 0.0000 | 0. | 2770.5 |
| 2780.5 | 101.37 | -0.00 | 0.9833 | -0.1939 | 0.9640 | -0.0001 | -0.9969 | -0.2007 | 0.0000 | 0. | 2780.5 |
| 2790.5 | 111.56 | -0.00 | 0.9835 | -0.3614 | 0.9147 | -0.0001 | -0.9465 | -0.3711 | 0.0000 | 0. | 2790.5 |
| 2800.5 | 121.74 | -0.00 | 0.9842 | -0.5178 | 0.8370 | -0.0000 | -0.8669 | -0.5297 | 0.0000 | 0. | 2800.5 |
| 2810.5 | 131.90 | -0.00 | 0.9854 | -0.6582 | 0.7334 | -0.0000 | -0.7607 | -0.6715 | 0.0000 | 0. | 2810.5 |
| 2820.5 | 142.04 | -0.00 | 0.9871 | -0.7782 | 0.6072 | -0.0000 | -0.6316 | -0.7920 | 0.0001 | 0. | 2820.5 |
| 2830.5 | 152.13 | -0.00 | 0.9891 | -0.8744 | 0.4623 | -0.0000 | -0.4838 | -0.8877 | 0.0001 | 0. | 2830.5 |
| 2840.5 | 162.18 | -0.00 | 0.9914 | -0.9439 | 0.3034 | -0.0000 | -0.3224 | -0.9557 | 0.0001 | 0. | 2840.5 |
| 2850.5 | 172.18 | -0.00 | 0.9940 | -0.9848 | 0.1352 | -0.0000 | -0.1524 | -0.9944 | 0.0001 | 0. | 2850.5 |
| 2860.5 | 182.13 | 0.00 | 0.9968 | -0.9961 | -0.0370 | 0.0000 | 0.0208 | -1.0030 | 0.0001 | 0. | 2860.5 |
| 2870.5 | 192.02 | 0.00 | 0.9997 | -0.9778 | -0.2081 | 0.0000 | 0.1919 | -0.9817 | 0.0001 | 0. | 2870.5 |
| 2880.5 | 201.85 | 0.00 | 1.0025 | -0.9305 | -0.3731 | 0.0000 | 0.3559 | -0.9318 | 0.0001 | 0. | 2880.5 |
| 2890.5 | 211.63 | 0.00 | 1.0053 | -0.8560 | -0.5272 | 0.0000 | 0.5081 | -0.8551 | 0.0000 | 0. | 2890.5 |
| 2900.5 | 221.35 | 0.00 | 1.0079 | -0.7566 | -0.6659 | 0.0000 | 0.6444 | -0.7543 | 0.0000 | 0. | 2900.5 |
| 2910.5 | 231.03 | 0.00 | 1.0103 | -0.6354 | -0.7855 | 0.0001 | 0.7612 | -0.6325 | 0.0000 | 0. | 2910.5 |
| 2920.5 | 240.66 | 0.00 | 1.0124 | -0.4960 | -0.8826 | 0.0001 | 0.8555 | -0.4935 | 0.0000 | 0. | 2920.5 |
| 2930.5 | 250.26 | 0.00 | 1.0141 | -0.3425 | -0.9545 | 0.0001 | 0.9250 | -0.3413 | 0.0000 | 0. | 2930.5 |
| 2940.5 | 259.83 | 0.00 | 1.0154 | -0.1793 | -0.9995 | 0.0001 | 0.9681 | -0.1801 | 0.0000 | 0. | 2940.5 |
| 2950.5 | 269.38 | 0.00 | 1.0163 | -0.0110 | -1.0162 | 0.0001 | 0.9837 | -0.0144 | -0.0000 | 0. | 2950.5 |
| 2960.5 | 278.92 | 0.00 | 1.0167 | 0.1576 | -1.0044 | 0.0001 | 0.9717 | 0.1515 | -0.0000 | 0. | 2960.5 |
| 2970.5 | 288.45 | 0.00 | 1.0166 | 0.3217 | -0.9644 | 0.0001 | 0.9324 | 0.3130 | -0.0000 | 0. | 2970.5 |
| 2980.5 | 297.99 | 0.00 | 1.0161 | 0.4768 | -0.8972 | 0.0001 | 0.8668 | 0.4659 | -0.0000 | 0. | 2980.5 |
| 2990.5 | 307.54 | 0.00 | 1.0151 | 0.6185 | -0.8048 | 0.0000 | 0.7767 | 0.6059 | -0.0000 | 0. | 2990.5 |
| 3000.5 | 317.12 | 0.00 | 1.0136 | 0.7428 | -0.6897 | 0.0000 | 0.6642 | 0.7294 | -0.0000 | 0. | 3000.5 |
| 3010.5 | 326.73 | 0.00 | 1.0118 | 0.8459 | -0.5550 | 0.0000 | 0.5323 | 0.8327 | -0.0001 | 0. | 3010.5 |
| 3020.5 | 336.38 | 0.00 | 1.0096 | 0.9250 | -0.4046 | 0.0000 | 0.3844 | 0.9128 | -0.0001 | 0. | 3020.5 |
| 3030.5 | 346.07 | 0.00 | 1.0071 | 0.9775 | -0.2425 | 0.0000 | 0.2244 | 0.9672 | -0.0001 | 0. | 3030.5 |
| 3040.5 | 355.81 | -0.00 | 1.0044 | 1.0018 | -0.0734 | -0.0000 | 0.0567 | 0.9939 | -0.0001 | 0. | 3040.5 |
| 3050.5 | 5.60 | -0.00 | 1.0016 | 0.9968 | 0.0978 | -0.0000 | -0.1140 | 0.9918 | -0.0001 | 0. | 3050.5 |
| 3060.5 | 15.46 | -0.00 | 0.9988 | 0.9626 | 0.2662 | -0.0000 | -0.2829 | 0.9604 | -0.0001 | 0. | 3060.5 |
| 3070.5 | 25.36 | -0.00 | 0.9959 | 0.8999 | 0.4266 | -0.0000 | -0.4448 | 0.9002 | -0.0001 | 0. | 3070.5 |
| 3080.5 | 35.33 | -0.00 | 0.9932 | 0.8103 | 0.5743 | -0.0000 | -0.5947 | 0.8125 | -0.0000 | 0. | 3080.5 |
| 3090.5 | 45.34 | -0.00 | 0.9907 | 0.6963 | 0.7047 | -0.0000 | -0.7278 | 0.6994 | -0.0000 | 0. | 3090.5 |
| 3100.5 | 55.41 | -0.00 | 0.9884 | 0.5611 | 0.8137 | -0.0001 | -0.8397 | 0.5643 | -0.0000 | 0. | 3100.5 |
| 3110.5 | 65.52 | -0.00 | 0.9865 | 0.4089 | 0.8978 | -0.0001 | -0.9265 | 0.4110 | -0.0000 | 0. | 3110.5 |
| 3120.5 | 75.66 | -0.00 | 0.9850 | 0.2440 | 0.9543 | -0.0001 | -0.9853 | 0.2442 | -0.0000 | 0. | 3120.5 |
| 3130.5 | 85.83 | -0.00 | 0.9839 | 0.0716 | 0.9813 | -0.0001 | -1.0138 | 0.0693 | 0.0000 | 0. | 3130.5 |
| 3140.5 | 96.01 | -0.00 | 0.9834 | -0.1030 | 0.9780 | -0.0001 | -1.0110 | -0.1083 | 0.0000 | 0. | 3140.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 | | | | | | | | | | | 244 |
| 3150.5 | 106.21 | -0.00 | 0.9833 | -0.2744 | 0.9443 | -0.0001 | -0.9768 | -0.2826 | 0.0000 | 0. | 3150.5 |
| 3160.5 | 116.39 | -0.00 | 0.9838 | -0.4373 | 0.8812 | -0.0001 | -0.9122 | -0.4481 | 0.0000 | 0. | 3160.5 |
| 3170.5 | 126.57 | -0.00 | 0.9847 | -0.5867 | 0.7909 | -0.0000 | -0.8196 | -0.5994 | 0.0000 | 0. | 3170.5 |
| 3180.5 | 136.72 | -0.00 | 0.9861 | -0.7179 | 0.6761 | -0.0000 | -0.7021 | -0.7316 | 0.0000 | 0. | 3180.5 |
| 3190.5 | 146.83 | -0.00 | 0.9880 | -0.8270 | 0.5405 | -0.0000 | -0.5635 | -0.8407 | 0.0001 | 0. | 3190.5 |
| 3200.5 | 156.91 | -0.00 | 0.9902 | -0.9108 | 0.3884 | -0.0000 | -0.4087 | -0.9235 | 0.0001 | 0. | 3200.5 |
| 3210.5 | 166.93 | -0.00 | 0.9926 | -0.9669 | 0.2244 | -0.0000 | -0.2425 | -0.9778 | 0.0001 | 0. | 3210.5 |
| 3220.5 | 176.91 | 0.00 | 0.9953 | -0.9939 | 0.0537 | 0.0000 | -0.0703 | -1.0022 | 0.0001 | 0. | 3220.5 |
| 3230.5 | 186.83 | 0.00 | 0.9982 | -0.9911 | -0.1186 | 0.0000 | 0.1025 | -0.9966 | 0.0001 | 0. | 3230.5 |
| 3240.5 | 196.69 | 0.00 | 1.0010 | -0.9589 | -0.2875 | 0.0000 | 0.2709 | -0.9615 | 0.0001 | 0. | 3240.5 |
| 3250.5 | 206.49 | 0.00 | 1.0039 | -0.8984 | -0.4478 | 0.0000 | 0.4298 | -0.8986 | 0.0001 | 0. | 3250.5 |
| 3260.5 | 216.25 | 0.00 | 1.0066 | -0.8118 | -0.5952 | 0.0000 | 0.5750 | -0.8101 | 0.0000 | 0. | 3260.5 |
| 3270.5 | 225.95 | 0.00 | 1.0091 | -0.7016 | -0.7253 | 0.0000 | 0.7025 | -0.6989 | 0.0000 | 0. | 3270.5 |
| 3280.5 | 235.60 | 0.00 | 1.0113 | -0.5713 | -0.8345 | 0.0001 | 0.8089 | -0.5685 | 0.0000 | 0. | 3280.5 |
| 3290.5 | 245.22 | 0.00 | 1.0133 | -0.4247 | -0.9200 | 0.0001 | 0.8917 | -0.4227 | 0.0000 | 0. | 3290.5 |
| 3300.5 | 254.80 | 0.00 | 1.0148 | -0.2660 | -0.9793 | 0.0001 | 0.9488 | -0.2657 | 0.0000 | 0. | 3300.5 |
| 3310.5 | 264.36 | 0.00 | 1.0159 | -0.0998 | -1.0110 | 0.0001 | 0.9790 | -0.1018 | 0.0000 | 0. | 3310.5 |
| 3320.5 | 273.90 | 0.00 | 1.0165 | 0.0692 | -1.0142 | 0.0001 | 0.9815 | 0.0646 | -0.0000 | 0. | 3320.5 |
| 3330.5 | 283.44 | 0.00 | 1.0167 | 0.2363 | -0.9889 | 0.0001 | 0.9564 | 0.2289 | -0.0000 | 0. | 3330.5 |
| 3340.5 | 292.97 | 0.00 | 1.0164 | 0.3967 | -0.9358 | 0.0001 | 0.9045 | 0.3868 | -0.0000 | 0. | 3340.5 |
| 3350.5 | 302.52 | 0.00 | 1.0156 | 0.5460 | -0.8564 | 0.0001 | 0.8270 | 0.5341 | -0.0000 | 0. | 3350.5 |
| 3360.5 | 312.08 | 0.00 | 1.0144 | 0.6799 | -0.7529 | 0.0000 | 0.7259 | 0.6668 | -0.0000 | 0. | 3360.5 |
| 3370.5 | 321.68 | 0.00 | 1.0128 | 0.7945 | -0.6280 | 0.0000 | 0.6039 | 0.7811 | -0.0001 | 0. | 3370.5 |
| 3380.5 | 331.30 | 0.00 | 1.0108 | 0.8866 | -0.4854 | 0.0000 | 0.4639 | 0.8738 | -0.0001 | 0. | 3380.5 |
| 3390.5 | 340.97 | 0.00 | 1.0085 | 0.9533 | -0.3288 | 0.0000 | 0.3098 | 0.9419 | -0.0001 | 0. | 3390.5 |
| 3400.5 | 350.68 | 0.00 | 1.0059 | 0.9926 | -0.1628 | 0.0000 | 0.1456 | 0.9834 | -0.0001 | 0. | 3400.5 |
| 3410.5 | 0.45 | -0.00 | 1.0031 | 1.0031 | 0.0079 | -0.0000 | -0.0242 | 0.9966 | -0.0001 | 0. | 3410.5 |
| 3420.5 | 10.27 | -0.00 | 1.0003 | 0.9842 | 0.1783 | -0.0000 | -0.1947 | 0.9806 | -0.0001 | 0. | 3420.5 |
| 3430.5 | 20.15 | -0.00 | 0.9974 | 0.9364 | 0.3436 | -0.0000 | -0.3608 | 0.9354 | -0.0001 | 0. | 3430.5 |
| 3440.5 | 30.08 | -0.00 | 0.9946 | 0.8606 | 0.4985 | -0.0000 | -0.5177 | 0.8619 | -0.0001 | 0. | 3440.5 |
| 3450.5 | 40.07 | -0.00 | 0.9920 | 0.7591 | 0.6386 | -0.0000 | -0.6602 | 0.7618 | -0.0000 | 0. | 3450.5 |
| 3460.5 | 50.11 | -0.00 | 0.9895 | 0.6346 | 0.7593 | -0.0001 | -0.7837 | 0.6379 | -0.0000 | 0. | 3460.5 |
| 3470.5 | 60.20 | -0.00 | 0.9874 | 0.4908 | 0.8568 | -0.0001 | -0.8842 | 0.4936 | -0.0000 | 0. | 3470.5 |
| 3480.5 | 70.32 | -0.00 | 0.9857 | 0.3319 | 0.9282 | -0.0001 | -0.9581 | 0.3332 | -0.0000 | 0. | 3480.5 |
| 3490.5 | 80.48 | -0.00 | 0.9844 | 0.1628 | 0.9709 | -0.0001 | -1.0027 | 0.1619 | -0.0000 | 0. | 3490.5 |
| 3500.5 | 90.66 | -0.00 | 0.9836 | -0.0113 | 0.9835 | -0.0001 | -1.0164 | -0.0150 | 0.0000 | 0. | 3500.5 |
| 3510.5 | 100.85 | -0.00 | 0.9833 | -0.1850 | 0.9657 | -0.0001 | -0.9986 | -0.1917 | 0.0000 | 0. | 3510.5 |
| 3520.5 | 111.04 | -0.00 | 0.9835 | -0.3531 | 0.9179 | -0.0001 | -0.9498 | -0.3626 | 0.0000 | 0. | 3520.5 |
| 3530.5 | 121.22 | -0.00 | 0.9842 | -0.5101 | 0.8416 | -0.0001 | -0.8716 | -0.5219 | 0.0000 | 0. | 3530.5 |
| 3540.5 | 131.38 | -0.00 | 0.9853 | -0.6514 | 0.7393 | -0.0000 | -0.7667 | -0.6647 | 0.0000 | 0. | 3540.5 |
| 3550.5 | 141.52 | -0.00 | 0.9870 | -0.7726 | 0.6142 | -0.0000 | -0.6387 | -0.7864 | 0.0001 | 0. | 3550.5 |
| 3560.5 | 151.62 | -0.00 | 0.9890 | -0.8701 | 0.4701 | -0.0000 | -0.4918 | -0.8834 | 0.0001 | 0. | 3560.5 |
| 3570.5 | 161.67 | -0.00 | 0.9913 | -0.9410 | 0.3118 | -0.0000 | -0.3309 | -0.9529 | 0.0001 | 0. | 3570.5 |
| 3580.5 | 171.67 | -0.00 | 0.9939 | -0.9834 | 0.1440 | -0.0000 | -0.1612 | -0.9931 | 0.0001 | 0. | 3580.5 |
| 3590.5 | 181.62 | 0.00 | 0.9967 | -0.9963 | -0.0282 | 0.0000 | 0.0119 | -1.0033 | 0.0001 | 0. | 3590.5 |
| 3600.5 | 191.51 | 0.00 | 0.9995 | -0.9794 | -0.1995 | 0.0000 | 0.1832 | -0.9835 | 0.0001 | 0. | 3600.5 |
| 3610.5 | 201.35 | 0.00 | 1.0024 | -0.9336 | -0.3649 | 0.0000 | 0.3477 | -0.9351 | 0.0001 | 0. | 3610.5 |
| 3620.5 | 211.13 | 0.00 | 1.0052 | -0.8605 | -0.5196 | 0.0000 | 0.5007 | -0.8597 | 0.0001 | 0. | 3620.5 |
| 3630.5 | 220.85 | 0.00 | 1.0078 | -0.7623 | -0.6593 | 0.0000 | 0.6379 | -0.7600 | 0.0000 | 0. | 3630.5 |
| 3640.5 | 230.53 | 0.00 | 1.0102 | -0.6421 | -0.7799 | 0.0001 | 0.7558 | -0.6392 | 0.0000 | 0. | 3640.5 |
| 3650.5 | 240.17 | 0.00 | 1.0123 | -0.5035 | -0.8782 | 0.0001 | 0.8513 | -0.5010 | 0.0000 | 0. | 3650.5 |
| 3660.5 | 249.77 | 0.00 | 1.0140 | -0.3506 | -0.9515 | 0.0001 | 0.9221 | -0.3494 | 0.0000 | 0. | 3660.5 |
| 3670.5 | 259.34 | 0.00 | 1.0154 | -0.1878 | -0.9978 | 0.0001 | 0.9665 | -0.1885 | 0.0000 | 0. | 3670.5 |
| 3680.5 | 268.89 | 0.00 | 1.0163 | -0.0197 | -1.0161 | 0.0001 | 0.9836 | -0.0229 | -0.0000 | 0. | 3680.5 |
| 3690.5 | 278.43 | 0.00 | 1.0167 | 0.1490 | -1.0057 | 0.0001 | 0.9730 | 0.1431 | -0.0000 | 0. | 3690.5 |
| 3700.5 | 287.96 | 0.00 | 1.0166 | 0.3135 | -0.9671 | 0.0001 | 0.9351 | 0.3049 | -0.0000 | 0. | 3700.5 |
| 3710.5 | 297.50 | 0.00 | 1.0161 | 0.4692 | -0.9013 | 0.0001 | 0.8708 | 0.4583 | -0.0000 | 0. | 3710.5 |
| 3720.5 | 307.05 | 0.00 | 1.0151 | 0.6117 | -0.8101 | 0.0000 | 0.7818 | 0.5991 | -0.0000 | 0. | 3720.5 |
| 3730.5 | 316.63 | 0.00 | 1.0137 | 0.7369 | -0.6961 | 0.0000 | 0.6705 | 0.7235 | -0.0001 | 0. | 3730.5 |
| 3740.5 | 326.24 | 0.00 | 1.0119 | 0.8412 | -0.5624 | 0.0000 | 0.5395 | 0.8279 | -0.0001 | 0. | 3740.5 |
| 3750.5 | 335.88 | 0.00 | 1.0097 | 0.9216 | -0.4126 | 0.0000 | 0.3923 | 0.9093 | -0.0001 | 0. | 3750.5 |
| 3760.5 | 345.57 | 0.00 | 1.0073 | 0.9755 | -0.2510 | 0.0000 | 0.2329 | 0.9651 | -0.0001 | 0. | 3760.5 |
| 3770.5 | 355.31 | -0.00 | 1.0046 | 1.0012 | -0.0822 | -0.0000 | 0.0654 | 0.9933 | -0.0001 | 0. | 3770.5 |
| 3780.5 | 5.10 | -0.00 | 1.0018 | 0.9978 | 0.0891 | -0.0000 | -0.1053 | 0.9927 | -0.0001 | 0. | 3780.5 |
| 3790.5 | 14.95 | -0.00 | 0.9989 | 0.9651 | 0.2577 | -0.0000 | -0.2743 | 0.9628 | -0.0001 | 0. | 3790.5 |
| 3800.5 | 24.85 | -0.00 | 0.9961 | 0.9038 | 0.4187 | -0.0000 | -0.4367 | 0.9040 | -0.0001 | 0. | 3800.5 |
| 3810.5 | 34.81 | -0.00 | 0.9933 | 0.8155 | 0.5671 | -0.0000 | -0.5873 | 0.8176 | -0.0000 | 0. | 3810.5 |
| 3820.5 | 44.83 | -0.00 | 0.9908 | 0.7027 | 0.6985 | -0.0001 | -0.7214 | 0.7058 | -0.0000 | 0. | 3820.5 |
| 3830.5 | 54.89 | -0.00 | 0.9885 | 0.5685 | 0.8087 | -0.0001 | -0.8345 | 0.5717 | -0.0000 | 0. | 3830.5 |
| 3840.5 | 65.00 | -0.00 | 0.9866 | 0.4170 | 0.8941 | -0.0001 | -0.9227 | 0.4192 | -0.0000 | 0. | 3840.5 |
| 3850.5 | 75.14 | -0.00 | 0.9851 | 0.2527 | 0.9521 | -0.0001 | -0.9830 | 0.2530 | -0.0000 | 0. | 3850.5 |
| 3860.5 | 85.30 | -0.00 | 0.9840 | 0.0805 | 0.9807 | -0.0001 | -1.0131 | 0.0783 | 0.0000 | 0. | 3860.5 |
| 3870.5 | 95.49 | -0.00 | 0.9834 | -0.0941 | 0.9789 | -0.0001 | -1.0119 | -0.0992 | 0.0000 | 0. | 3870.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3880.5 | 105.68 | -0.00 | 0.9833 | -0.2658 | 0.9467 | -0.0001 | -0.9793 | -0.2739 | 0.0000 | 0. | 3880.5 |
| 3890.5 | 115.87 | -0.00 | 0.9837 | -0.4292 | 0.8852 | -0.0001 | -0.9163 | -0.4399 | 0.0000 | 0. | 3890.5 |
| 3900.5 | 126.05 | -0.00 | 0.9847 | -0.5794 | 0.7962 | -0.0000 | -0.8250 | -0.5920 | 0.0000 | 0. | 3900.5 |
| 3910.5 | 136.20 | -0.00 | 0.9861 | -0.7116 | 0.6825 | -0.0000 | -0.7086 | -0.7253 | 0.0001 | 0. | 3910.5 |
| 3920.5 | 146.31 | -0.00 | 0.9879 | -0.8220 | 0.5479 | -0.0000 | -0.5711 | -0.8357 | 0.0001 | 0. | 3920.5 |
| 3930.5 | 156.39 | -0.00 | 0.9900 | -0.9072 | 0.3965 | -0.0000 | -0.4169 | -0.9199 | 0.0001 | 0. | 3930.5 |
| 3940.5 | 166.42 | -0.00 | 0.9925 | -0.9648 | 0.2331 | -0.0000 | -0.2512 | -0.9757 | 0.0001 | 0. | 3940.5 |
| 3950.5 | 176.40 | 0.00 | 0.9952 | -0.9932 | 0.0626 | 0.0000 | -0.0792 | -1.0017 | 0.0001 | 0. | 3950.5 |
| 3960.5 | 186.32 | 0.00 | 0.9980 | -0.9920 | -0.1098 | 0.0000 | 0.0937 | -0.9976 | 0.0001 | 0. | 3960.5 |
| 3970.5 | 196.18 | 0.00 | 1.0009 | -0.9612 | -0.2790 | 0.0000 | 0.2624 | -0.9640 | 0.0001 | 0. | 3970.5 |
| 3980.5 | 205.99 | 0.00 | 1.0037 | -0.9022 | -0.4399 | 0.0000 | 0.4220 | -0.9025 | 0.0001 | 0. | 3980.5 |
| 3990.5 | 215.75 | 0.00 | 1.0064 | -0.8168 | -0.5880 | 0.0000 | 0.5680 | -0.8152 | 0.0001 | 0. | 3990.5 |
| 4000.5 | 225.45 | 0.00 | 1.0090 | -0.7078 | -0.7191 | 0.0001 | 0.6964 | -0.7051 | 0.0000 | 0. | 4000.5 |
| 4010.5 | 235.11 | 0.00 | 1.0112 | -0.5784 | -0.8295 | 0.0001 | 0.8040 | -0.5756 | 0.0000 | 0. | 4010.5 |
| 4020.5 | 244.73 | 0.00 | 1.0132 | -0.4325 | -0.9162 | 0.0001 | 0.8881 | -0.4305 | 0.0000 | 0. | 4020.5 |
| 4030.5 | 254.31 | 0.00 | 1.0147 | -0.2744 | -0.9769 | 0.0001 | 0.9465 | -0.2739 | 0.0000 | 0. | 4030.5 |
| 4040.5 | 263.87 | 0.00 | 1.0158 | -0.1084 | -1.0100 | 0.0001 | 0.9781 | -0.1103 | 0.0000 | 0. | 4040.5 |
| 4050.5 | 273.42 | 0.00 | 1.0165 | 0.0606 | -1.0147 | 0.0001 | 0.9820 | 0.0561 | -0.0000 | 0. | 4050.5 |
| 4060.5 | 282.95 | 0.00 | 1.0167 | 0.2278 | -0.9909 | 0.0001 | 0.9584 | 0.2206 | -0.0000 | 0. | 4060.5 |
| 4070.5 | 292.48 | 0.00 | 1.0164 | 0.3887 | -0.9392 | 0.0001 | 0.9078 | 0.3790 | -0.0000 | 0. | 4070.5 |
| 4080.5 | 302.03 | 0.00 | 1.0157 | 0.5387 | -0.8611 | 0.0001 | 0.8315 | 0.5269 | -0.0000 | 0. | 4080.5 |
| 4090.5 | 311.59 | 0.00 | 1.0145 | 0.6735 | -0.7587 | 0.0000 | 0.7316 | 0.6604 | -0.0000 | 0. | 4090.5 |
| 4100.5 | 321.18 | 0.00 | 1.0129 | 0.7892 | -0.6349 | 0.0000 | 0.6106 | 0.7757 | -0.0001 | 0. | 4100.5 |
| 4110.5 | 330.81 | 0.00 | 1.0109 | 0.8825 | -0.4931 | 0.0000 | 0.4715 | 0.8696 | -0.0001 | 0. | 4110.5 |
| 4120.5 | 340.47 | 0.00 | 1.0086 | 0.9506 | -0.3371 | 0.0000 | 0.3180 | 0.9391 | -0.0001 | 0. | 4120.5 |
| 4130.5 | 350.18 | 0.00 | 1.0060 | 0.9913 | -0.1715 | 0.0000 | 0.1542 | 0.9820 | -0.0001 | 0. | 4130.5 |
| 4140.5 | 359.95 | -0.00 | 1.0033 | 1.0033 | -0.0009 | -0.0000 | -0.0154 | 0.9966 | -0.0001 | 0. | 4140.5 |
| 4150.5 | 9.77 | -0.00 | 1.0004 | 0.9859 | 0.1697 | -0.0000 | -0.1860 | 0.9821 | -0.0001 | 0. | 4150.5 |
| 4160.5 | 19.64 | -0.00 | 0.9976 | 0.9395 | 0.3353 | -0.0000 | -0.3525 | 0.9384 | -0.0001 | 0. | 4160.5 |
| 4170.5 | 29.57 | -0.00 | 0.9947 | 0.8652 | 0.4909 | -0.0000 | -0.5099 | 0.8663 | -0.0001 | 0. | 4170.5 |
| 4180.5 | 39.56 | -0.00 | 0.9921 | 0.7649 | 0.6318 | -0.0000 | -0.6533 | 0.7676 | -0.0000 | 0. | 4180.5 |
| 4190.5 | 49.60 | -0.00 | 0.9897 | 0.6415 | 0.7536 | -0.0001 | -0.7779 | 0.6447 | -0.0000 | 0. | 4190.5 |
| 4200.5 | 59.68 | -0.00 | 0.9875 | 0.4986 | 0.8525 | -0.0001 | -0.8797 | 0.5014 | -0.0000 | 0. | 4200.5 |
| 4210.5 | 69.80 | -0.00 | 0.9858 | 0.3404 | 0.9252 | -0.0001 | -0.9550 | 0.3418 | -0.0000 | 0. | 4210.5 |
| 4220.5 | 79.96 | -0.00 | 0.9845 | 0.1717 | 0.9694 | -0.0001 | -1.0012 | 0.1709 | -0.0000 | 0. | 4220.5 |
| 4230.5 | 90.13 | -0.00 | 0.9836 | -0.0023 | 0.9836 | -0.0001 | -1.0165 | -0.0059 | 0.0000 | 0. | 4230.5 |
| 4240.5 | 100.32 | -0.00 | 0.9833 | -0.1762 | 0.9674 | -0.0001 | -1.0003 | -0.1828 | 0.0000 | 0. | 4240.5 |
| 4250.5 | 110.52 | -0.00 | 0.9835 | -0.3447 | 0.9211 | -0.0001 | -0.9530 | -0.3540 | 0.0000 | 0. | 4250.5 |
| 4260.5 | 120.70 | -0.00 | 0.9841 | -0.5024 | 0.8462 | -0.0001 | -0.8763 | -0.5141 | 0.0000 | 0. | 4260.5 |
| 4270.5 | 130.86 | -0.00 | 0.9853 | -0.6446 | 0.7451 | -0.0000 | -0.7727 | -0.6579 | 0.0001 | 0. | 4270.5 |
| 4280.5 | 141.00 | -0.00 | 0.9869 | -0.7669 | 0.6211 | -0.0000 | -0.6458 | -0.7808 | 0.0001 | 0. | 4280.5 |
| 4290.5 | 151.10 | -0.00 | 0.9889 | -0.8657 | 0.4779 | -0.0000 | -0.4997 | -0.8791 | 0.0001 | 0. | 4290.5 |
| 4300.5 | 161.15 | -0.00 | 0.9912 | -0.9380 | 0.3202 | -0.0000 | -0.3394 | -0.9500 | 0.0001 | 0. | 4300.5 |
| 4310.5 | 171.16 | -0.00 | 0.9938 | -0.9820 | 0.1527 | -0.0000 | -0.1701 | -0.9918 | 0.0001 | 0. | 4310.5 |
| 4320.5 | 181.11 | 0.00 | 0.9965 | -0.9963 | -0.0193 | 0.0000 | 0.0030 | -1.0035 | 0.0001 | 0. | 4320.5 |
| 4330.5 | 191.01 | 0.00 | 0.9994 | -0.9810 | -0.1908 | 0.0000 | 0.1746 | -0.9853 | 0.0001 | 0. | 4330.5 |
| 4340.5 | 200.84 | 0.00 | 1.0022 | -0.9367 | -0.3566 | 0.0000 | 0.3395 | -0.9382 | 0.0001 | 0. | 4340.5 |
| 4350.5 | 210.63 | 0.00 | 1.0050 | -0.8648 | -0.5120 | 0.0000 | 0.4932 | -0.8642 | 0.0001 | 0. | 4350.5 |
| 4360.5 | 220.36 | 0.00 | 1.0077 | -0.7679 | -0.6525 | 0.0001 | 0.6313 | -0.7657 | 0.0000 | 0. | 4360.5 |
| 4370.5 | 230.04 | 0.00 | 1.0101 | -0.6487 | -0.7742 | 0.0001 | 0.7502 | -0.6459 | 0.0000 | 0. | 4370.5 |
| 4380.5 | 239.68 | 0.00 | 1.0122 | -0.5110 | -0.8737 | 0.0001 | 0.8470 | -0.5085 | 0.0000 | 0. | 4380.5 |
| 4390.5 | 249.28 | 0.00 | 1.0140 | -0.3588 | -0.9484 | 0.0001 | 0.9191 | -0.3574 | 0.0000 | 0. | 4390.5 |
| 4400.5 | 258.85 | 0.00 | 1.0153 | -0.1963 | -0.9961 | 0.0001 | 0.9649 | -0.1969 | 0.0000 | 0. | 4400.5 |
| 4410.5 | 268.40 | 0.00 | 1.0162 | -0.0284 | -1.0158 | 0.0001 | 0.9834 | -0.0314 | -0.0000 | 0. | 4410.5 |
| 4420.5 | 277.94 | 0.00 | 1.0167 | 0.1404 | -1.0069 | 0.0001 | 0.9742 | 0.1346 | -0.0000 | 0. | 4420.5 |
| 4430.5 | 287.47 | 0.00 | 1.0166 | 0.3052 | -0.9697 | 0.0001 | 0.9377 | 0.2968 | -0.0000 | 0. | 4430.5 |
| 4440.5 | 297.01 | 0.00 | 1.0161 | 0.4615 | -0.9053 | 0.0001 | 0.8747 | 0.4507 | -0.0000 | 0. | 4440.5 |
| 4450.5 | 306.56 | 0.00 | 1.0152 | 0.6048 | -0.8154 | 0.0001 | 0.7870 | 0.5923 | -0.0000 | 0. | 4450.5 |
| 4460.5 | 316.14 | 0.00 | 1.0138 | 0.7309 | -0.7025 | 0.0000 | 0.6767 | 0.7176 | -0.0001 | 0. | 4460.5 |
| 4470.5 | 325.74 | 0.00 | 1.0120 | 0.8364 | -0.5696 | 0.0000 | 0.5466 | 0.8231 | -0.0001 | 0. | 4470.5 |
| 4480.5 | 335.39 | 0.00 | 1.0098 | 0.9181 | -0.4206 | 0.0000 | 0.4002 | 0.9057 | -0.0001 | 0. | 4480.5 |
| 4490.5 | 345.07 | 0.00 | 1.0074 | 0.9734 | -0.2595 | 0.0000 | 0.2413 | 0.9629 | -0.0001 | 0. | 4490.5 |
| 4500.5 | 354.81 | -0.00 | 1.0047 | 1.0006 | -0.0909 | -0.0000 | 0.0741 | 0.9925 | -0.0001 | 0. | 4500.5 |
| 4510.5 | 4.60 | -0.00 | 1.0019 | 0.9987 | 0.0803 | -0.0000 | -0.0965 | 0.9934 | -0.0001 | 0. | 4510.5 |
| 4520.5 | 14.44 | -0.00 | 0.9991 | 0.9675 | 0.2492 | -0.0000 | -0.2658 | 0.9650 | -0.0001 | 0. | 4520.5 |
| 4530.5 | 24.34 | -0.00 | 0.9962 | 0.9076 | 0.4107 | -0.0000 | -0.4286 | 0.9077 | -0.0001 | 0. | 4530.5 |
| 4540.5 | 34.30 | -0.00 | 0.9935 | 0.8207 | 0.5599 | -0.0000 | -0.5800 | 0.8227 | -0.0001 | 0. | 4540.5 |
| 4550.5 | 44.31 | -0.00 | 0.9909 | 0.7090 | 0.6922 | -0.0001 | -0.7150 | 0.7121 | -0.0000 | 0. | 4550.5 |
| 4560.5 | 54.37 | -0.00 | 0.9886 | 0.5759 | 0.8036 | -0.0001 | -0.8293 | 0.5791 | -0.0000 | 0. | 4560.5 |
| 4570.5 | 64.48 | -0.00 | 0.9867 | 0.4251 | 0.8904 | -0.0001 | -0.9189 | 0.4274 | -0.0000 | 0. | 4570.5 |
| 4580.5 | 74.62 | -0.00 | 0.9851 | 0.2613 | 0.9498 | -0.0001 | -0.9806 | 0.2618 | -0.0000 | 0. | 4580.5 |
| 4590.5 | 84.78 | -0.00 | 0.9840 | 0.0895 | 0.9799 | -0.0001 | -1.0123 | 0.0874 | 0.0000 | 0. | 4590.5 |
| 4600.5 | 94.97 | -0.00 | 0.9834 | -0.0851 | 0.9797 | -0.0001 | -1.0127 | -0.0901 | 0.0000 | 0. | 4600.5 |
| 244 | | | | | | | | | | | 244 |

EARTH-MOON BARYCENTER

1981 - 1982
244 4610.5 - 244 5330.5

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 4610.5 | 105.16 | -0.00 | 0.9833 | -0.2571 | 0.9491 | -0.0001 | -0.9817 | -0.2651 | 0.0000 | 0. | 244 4610.5 |
| 4620.5 | 115.35 | -0.00 | 0.9837 | -0.4211 | 0.8890 | -0.0001 | -0.9202 | -0.4317 | 0.0000 | 0. | 4620.5 |
| 4630.5 | 125.52 | -0.00 | 0.9846 | -0.5721 | 0.8014 | -0.0001 | -0.8303 | -0.5846 | 0.0000 | 0. | 4630.5 |
| 4640.5 | 135.68 | -0.00 | 0.9860 | -0.7054 | 0.6889 | -0.0000 | -0.7152 | -0.7190 | 0.0001 | 0. | 4640.5 |
| 4650.5 | 145.79 | -0.00 | 0.9878 | -0.8169 | 0.5553 | -0.0000 | -0.5786 | -0.8307 | 0.0001 | 0. | 4650.5 |
| 4660.5 | 155.87 | -0.00 | 0.9899 | -0.9034 | 0.4046 | -0.0000 | -0.4252 | -0.9163 | 0.0001 | 0. | 4660.5 |
| 4670.5 | 165.91 | -0.00 | 0.9924 | -0.9625 | 0.2417 | -0.0000 | -0.2599 | -0.9736 | 0.0001 | 0. | 4670.5 |
| 4680.5 | 175.89 | 0.00 | 0.9951 | -0.9925 | 0.0714 | 0.0000 | -0.0881 | -1.0011 | 0.0001 | 0. | 4680.5 |
| 4690.5 | 185.81 | 0.00 | 0.9979 | -0.9927 | -0.1010 | 0.0000 | 0.0849 | -0.9985 | 0.0001 | 0. | 4690.5 |
| 4700.5 | 195.68 | 0.00 | 1.0007 | -0.9635 | -0.2705 | 0.0000 | 0.2539 | -0.9665 | 0.0001 | 0. | 4700.5 |
| 4710.5 | 205.49 | 0.00 | 1.0036 | -0.9059 | -0.4319 | 0.0000 | 0.4141 | -0.9063 | 0.0001 | 0. | 4710.5 |
| 4720.5 | 215.25 | 0.00 | 1.0063 | -0.8218 | -0.5808 | 0.0000 | 0.5609 | -0.8203 | 0.0001 | 0. | 4720.5 |
| 4730.5 | 224.96 | 0.00 | 1.0088 | -0.7139 | -0.7128 | 0.0001 | 0.6903 | -0.7113 | 0.0000 | 0. | 4730.5 |
| 4740.5 | 234.62 | 0.00 | 1.0111 | -0.5855 | -0.8244 | 0.0001 | 0.7991 | -0.5827 | 0.0000 | 0. | 4740.5 |
| 4750.5 | 244.24 | 0.00 | 1.0131 | -0.4404 | -0.9124 | 0.0001 | 0.8844 | -0.4383 | 0.0000 | 0. | 4750.5 |
| 4760.5 | 253.82 | 0.00 | 1.0146 | -0.2827 | -0.9745 | 0.0001 | 0.9442 | -0.2822 | 0.0000 | 0. | 4760.5 |
| 4770.5 | 263.38 | 0.00 | 1.0158 | -0.1171 | -1.0090 | 0.0001 | 0.9771 | -0.1188 | 0.0000 | 0. | 4770.5 |
| 4780.5 | 272.93 | 0.00 | 1.0165 | 0.0519 | -1.0152 | 0.0001 | 0.9825 | 0.0475 | -0.0000 | 0. | 4780.5 |
| 4790.5 | 282.46 | 0.00 | 1.0167 | 0.2194 | -0.9928 | 0.0001 | 0.9602 | 0.2123 | -0.0000 | 0. | 4790.5 |
| 4800.5 | 292.00 | 0.00 | 1.0165 | 0.3807 | -0.9425 | 0.0001 | 0.9110 | 0.3711 | -0.0000 | 0. | 4800.5 |
| 4810.5 | 301.54 | 0.00 | 1.0157 | 0.5313 | -0.8657 | 0.0001 | 0.8361 | 0.5196 | -0.0000 | 0. | 4810.5 |
| 4820.5 | 311.10 | 0.00 | 1.0146 | 0.6670 | -0.7645 | 0.0001 | 0.7373 | 0.6540 | -0.0001 | 0. | 4820.5 |
| 4830.5 | 320.69 | 0.00 | 1.0130 | 0.7838 | -0.6417 | 0.0000 | 0.6173 | 0.7703 | -0.0001 | 0. | 4830.5 |
| 4840.5 | 330.31 | 0.00 | 1.0110 | 0.8783 | -0.5007 | 0.0000 | 0.4790 | 0.8653 | -0.0001 | 0. | 4840.5 |
| 4850.5 | 339.98 | 0.00 | 1.0087 | 0.9477 | -0.3454 | 0.0000 | 0.3261 | 0.9362 | -0.0001 | 0. | 4850.5 |
| 4860.5 | 349.68 | 0.00 | 1.0062 | 0.9809 | -0.1802 | 0.0000 | 0.1627 | 0.9804 | -0.0001 | 0. | 4860.5 |
| 4870.5 | 359.45 | -0.00 | 1.0034 | 1.0034 | -0.0097 | -0.0000 | -0.0067 | 0.9966 | -0.0001 | 0. | 4870.5 |
| 4880.5 | 9.26 | -0.00 | 1.0006 | 0.9875 | 0.1610 | -0.0000 | -0.1773 | 0.9836 | -0.0001 | 0. | 4880.5 |
| 4890.5 | 19.13 | -0.00 | 0.9977 | 0.9426 | 0.3270 | -0.0000 | -0.3441 | 0.9414 | -0.0001 | 0. | 4890.5 |
| 4900.5 | 29.06 | -0.00 | 0.9949 | 0.8696 | 0.4833 | -0.0000 | -0.5022 | 0.8707 | -0.0001 | 0. | 4900.5 |
| 4910.5 | 39.04 | -0.00 | 0.9922 | 0.7706 | 0.6250 | -0.0001 | -0.6464 | 0.7732 | -0.0001 | 0. | 4910.5 |
| 4920.5 | 49.08 | -0.00 | 0.9898 | 0.6483 | 0.7479 | -0.0001 | -0.7721 | 0.6516 | -0.0000 | 0. | 4920.5 |
| 4930.5 | 59.16 | -0.00 | 0.9877 | 0.5063 | 0.8480 | -0.0001 | -0.8751 | 0.5092 | -0.0000 | 0. | 4930.5 |
| 4940.5 | 69.28 | -0.00 | 0.9859 | 0.3488 | 0.9221 | -0.0001 | -0.9518 | 0.3503 | -0.0000 | 0. | 4940.5 |
| 4950.5 | 79.44 | -0.00 | 0.9845 | 0.1805 | 0.9679 | -0.0001 | -0.9995 | 0.1798 | -0.0000 | 0. | 4950.5 |
| 4960.5 | 89.61 | -0.00 | 0.9837 | 0.0067 | 0.9836 | -0.0001 | -1.0165 | 0.0032 | 0.0000 | 0. | 4960.5 |
| 4970.5 | 99.80 | -0.00 | 0.9833 | -0.1674 | 0.9689 | -0.0001 | -1.0019 | -0.1738 | 0.0000 | 0. | 4970.5 |
| 4980.5 | 109.99 | -0.00 | 0.9834 | -0.3362 | 0.9242 | -0.0001 | -0.9562 | -0.3455 | 0.0000 | 0. | 4980.5 |
| 4990.5 | 120.18 | -0.00 | 0.9841 | -0.4947 | 0.8507 | -0.0001 | -0.8809 | -0.5063 | 0.0000 | 0. | 4990.5 |
| 5000.5 | 130.34 | -0.00 | 0.9852 | -0.6378 | 0.7509 | -0.0001 | -0.7786 | -0.6510 | 0.0001 | 0. | 5000.5 |
| 5010.5 | 140.48 | -0.00 | 0.9868 | -0.7612 | 0.6279 | -0.0000 | -0.6528 | -0.7750 | 0.0001 | 0. | 5010.5 |
| 5020.5 | 150.58 | -0.00 | 0.9887 | -0.8612 | 0.4857 | -0.0000 | -0.5076 | -0.8747 | 0.0001 | 0. | 5020.5 |
| 5030.5 | 160.64 | -0.00 | 0.9911 | -0.9350 | 0.3286 | -0.0000 | -0.3479 | -0.9471 | 0.0001 | 0. | 5030.5 |
| 5040.5 | 170.65 | -0.00 | 0.9936 | -0.9804 | 0.1615 | -0.0000 | -0.1789 | -0.9904 | 0.0001 | 0. | 5040.5 |
| 5050.5 | 180.60 | 0.00 | 0.9964 | -0.9963 | -0.0104 | 0.0000 | -0.0059 | -1.0036 | 0.0001 | 0. | 5050.5 |
| 5060.5 | 190.50 | 0.00 | 0.9992 | -0.9825 | -0.1821 | 0.0000 | 0.1659 | -0.9869 | 0.0001 | 0. | 5060.5 |
| 5070.5 | 200.34 | 0.00 | 1.0021 | -0.9396 | -0.3483 | 0.0000 | 0.3313 | -0.9413 | 0.0001 | 0. | 5070.5 |
| 5080.5 | 210.13 | 0.00 | 1.0049 | -0.8692 | -0.5044 | 0.0000 | 0.4856 | -0.8686 | 0.0001 | 0. | 5080.5 |
| 5090.5 | 219.86 | 0.00 | 1.0075 | -0.7734 | -0.6457 | 0.0001 | 0.6247 | -0.7713 | 0.0001 | 0. | 5090.5 |
| 5100.5 | 229.54 | 0.00 | 1.0100 | -0.6553 | -0.7685 | 0.0001 | 0.7447 | -0.6525 | 0.0000 | 0. | 5100.5 |
| 5110.5 | 239.18 | 0.00 | 1.0121 | -0.5185 | -0.8692 | 0.0001 | 0.8426 | -0.5159 | 0.0000 | 0. | 5110.5 |
| 5120.5 | 248.79 | 0.00 | 1.0139 | -0.3669 | -0.9452 | 0.0001 | 0.9160 | -0.3654 | 0.0000 | 0. | 5120.5 |
| 5130.5 | 258.36 | 0.00 | 1.0152 | -0.2048 | -0.9944 | 0.0001 | 0.9632 | -0.2053 | 0.0000 | 0. | 5130.5 |
| 5140.5 | 267.91 | 0.00 | 1.0162 | -0.0370 | -1.0155 | 0.0001 | 0.9831 | -0.0400 | -0.0000 | 0. | 5140.5 |
| 5150.5 | 277.45 | 0.00 | 1.0167 | 0.1318 | -1.0081 | 0.0001 | 0.9754 | 0.1261 | -0.0000 | 0. | 5150.5 |
| 5160.5 | 286.98 | 0.00 | 1.0167 | 0.2970 | -0.9723 | 0.0001 | 0.9402 | 0.2886 | -0.0000 | 0. | 5160.5 |
| 5170.5 | 296.52 | 0.00 | 1.0162 | 0.4538 | -0.9092 | 0.0001 | 0.8785 | 0.4431 | -0.0000 | 0. | 5170.5 |
| 5180.5 | 306.07 | 0.00 | 1.0152 | 0.5978 | -0.8206 | 0.0001 | 0.7920 | 0.5854 | -0.0000 | 0. | 5180.5 |
| 5190.5 | 315.65 | 0.00 | 1.0139 | 0.7250 | -0.7088 | 0.0000 | 0.6828 | 0.7116 | -0.0001 | 0. | 5190.5 |
| 5200.5 | 325.25 | 0.00 | 1.0121 | 0.8316 | -0.5769 | 0.0000 | 0.5537 | 0.8182 | -0.0001 | 0. | 5200.5 |
| 5210.5 | 334.89 | 0.00 | 1.0100 | 0.9145 | -0.4286 | 0.0000 | 0.4081 | 0.9021 | -0.0001 | 0. | 5210.5 |
| 5220.5 | 344.58 | 0.00 | 1.0075 | 0.9712 | -0.2680 | 0.0000 | 0.2497 | 0.9606 | -0.0001 | 0. | 5220.5 |
| 5230.5 | 354.31 | 0.00 | 1.0049 | 0.9999 | -0.0997 | 0.0000 | 0.0828 | 0.9917 | -0.0001 | 0. | 5230.5 |
| 5240.5 | 4.09 | -0.00 | 1.0021 | 0.9995 | 0.0716 | -0.0000 | -0.0878 | 0.9941 | -0.0001 | 0. | 5240.5 |
| 5250.5 | 13.94 | -0.00 | 0.9992 | 0.9698 | 0.2407 | -0.0000 | -0.2572 | 0.9672 | -0.0001 | 0. | 5250.5 |
| 5260.5 | 23.84 | -0.00 | 0.9964 | 0.9114 | 0.4026 | -0.0000 | -0.4205 | 0.9113 | -0.0001 | 0. | 5260.5 |
| 5270.5 | 33.79 | -0.00 | 0.9936 | 0.8258 | 0.5526 | -0.0000 | -0.5726 | 0.8277 | -0.0001 | 0. | 5270.5 |
| 5280.5 | 43.80 | -0.00 | 0.9910 | 0.7153 | 0.6859 | -0.0001 | -0.7086 | 0.7184 | -0.0000 | 0. | 5280.5 |
| 5290.5 | 53.86 | -0.00 | 0.9887 | 0.5832 | 0.7984 | -0.0001 | -0.8240 | 0.5864 | -0.0000 | 0. | 5290.5 |
| 5300.5 | 63.96 | -0.00 | 0.9868 | 0.4332 | 0.8866 | -0.0001 | -0.9149 | 0.4356 | -0.0000 | 0. | 5300.5 |
| 5310.5 | 74.10 | -0.00 | 0.9852 | 0.2700 | 0.9475 | -0.0001 | -0.9782 | 0.2706 | -0.0000 | 0. | 5310.5 |
| 5320.5 | 84.26 | -0.00 | 0.9841 | 0.0984 | 0.9791 | -0.0001 | -1.0115 | 0.0965 | 0.0000 | 0. | 5320.5 |
| 5330.5 | 94.44 | -0.00 | 0.9834 | -0.0762 | 0.9805 | -0.0001 | -1.0135 | -0.0810 | 0.0000 | 0. | 5330.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 5340.5 | 104.64 | -0.00 | 0.9833 | -0.2485 | 0.9514 | -0.0001 | -0.9840 | -0.2562 | 0.0000 | 0. | 5340.5 |
| 5350.5 | 114.83 | -0.00 | 0.9837 | -0.4130 | 0.8928 | -0.0001 | -0.9241 | -0.4234 | 0.0000 | 0. | 5350.5 |
| 5360.5 | 125.00 | -0.00 | 0.9846 | -0.5647 | 0.8065 | -0.0001 | -0.8356 | -0.5772 | 0.0000 | 0. | 5360.5 |
| 5370.5 | 135.16 | -0.00 | 0.9859 | -0.6990 | 0.6952 | -0.0000 | -0.7216 | -0.7127 | 0.0001 | 0. | 5370.5 |
| 5380.5 | 145.28 | -0.00 | 0.9877 | -0.8118 | 0.5626 | -0.0000 | -0.5860 | -0.8256 | 0.0001 | 0. | 5380.5 |
| 5390.5 | 155.36 | -0.00 | 0.9898 | -0.8997 | 0.4127 | -0.0000 | -0.4334 | -0.9126 | 0.0001 | 0. | 5390.5 |
| 5400.5 | 165.39 | -0.00 | 0.9922 | -0.9602 | 0.2502 | -0.0000 | -0.2686 | -0.9713 | 0.0001 | 0. | 5400.5 |
| 5410.5 | 175.38 | 0.00 | 0.9949 | -0.9917 | 0.0802 | 0.0000 | -0.0970 | -1.0004 | 0.0001 | 0. | 5410.5 |
| 5420.5 | 185.30 | 0.00 | 0.9977 | -0.9935 | -0.0922 | 0.0000 | 0.0761 | -0.9994 | 0.0001 | 0. | 5420.5 |
| 5430.5 | 195.17 | 0.00 | 1.0006 | -0.9657 | -0.2619 | 0.0000 | 0.2455 | -0.9688 | 0.0001 | 0. | 5430.5 |
| 5440.5 | 204.99 | 0.00 | 1.0034 | -0.9095 | -0.4239 | 0.0000 | 0.4062 | -0.9100 | 0.0001 | 0. | 5440.5 |
| 5450.5 | 214.75 | 0.00 | 1.0062 | -0.8267 | -0.5735 | 0.0000 | 0.5537 | -0.8253 | 0.0001 | 0. | 5450.5 |
| 5460.5 | 224.46 | 0.00 | 1.0087 | -0.7200 | -0.7065 | 0.0001 | 0.6842 | -0.7174 | 0.0000 | 0. | 5460.5 |
| 5470.5 | 234.12 | 0.00 | 1.0110 | -0.5925 | -0.8192 | 0.0001 | 0.7940 | -0.5897 | 0.0000 | 0. | 5470.5 |
| 5480.5 | 243.74 | 0.00 | 1.0130 | -0.4481 | -0.9085 | 0.0001 | 0.8806 | -0.4460 | 0.0000 | 0. | 5480.5 |
| 5490.5 | 253.33 | 0.00 | 1.0146 | -0.2910 | -0.9719 | 0.0001 | 0.9418 | -0.2904 | 0.0000 | 0. | 5490.5 |
| 5500.5 | 262.89 | 0.00 | 1.0157 | -0.1257 | -1.0079 | 0.0001 | 0.9761 | -0.1273 | 0.0000 | 0. | 5500.5 |
| 5510.5 | 272.44 | 0.00 | 1.0165 | 0.0432 | -1.0155 | 0.0001 | 0.9829 | 0.0390 | -0.0000 | 0. | 5510.5 |
| 5520.5 | 281.97 | 0.00 | 1.0167 | 0.2109 | -0.9946 | 0.0001 | 0.9620 | 0.2039 | -0.0000 | 0. | 5520.5 |
| 5530.5 | 291.51 | 0.00 | 1.0165 | 0.3727 | -0.9457 | 0.0001 | 0.9142 | 0.3631 | -0.0000 | 0. | 5530.5 |
| 5540.5 | 301.05 | 0.00 | 1.0158 | 0.5239 | -0.8702 | 0.0001 | 0.8405 | 0.5123 | -0.0000 | 0. | 5540.5 |
| 5550.5 | 310.61 | 0.00 | 1.0146 | 0.6605 | -0.7703 | 0.0001 | 0.7429 | 0.6475 | -0.0001 | 0. | 5550.5 |
| 5560.5 | 320.20 | 0.00 | 1.0131 | 0.7783 | -0.6485 | 0.0000 | 0.6239 | 0.7648 | -0.0001 | 0. | 5560.5 |
| 5570.5 | 329.82 | 0.00 | 1.0111 | 0.8740 | -0.5083 | 0.0000 | 0.4865 | 0.8610 | -0.0001 | 0. | 5570.5 |
| 5580.5 | 339.48 | 0.00 | 1.0088 | 0.9448 | -0.3536 | 0.0000 | 0.3343 | 0.9331 | -0.0001 | 0. | 5580.5 |
| 5590.5 | 349.19 | 0.00 | 1.0063 | 0.9884 | -0.1888 | 0.0000 | 0.1713 | 0.9789 | -0.0001 | 0. | 5590.5 |
| 5600.5 | 358.94 | -0.00 | 1.0036 | 1.0034 | -0.0185 | -0.0000 | 0.0021 | 0.9964 | -0.0001 | 0. | 5600.5 |
| 5610.5 | 8.76 | -0.00 | 1.0007 | 0.9891 | 0.1523 | -0.0000 | -0.1686 | 0.9850 | -0.0001 | 0. | 5610.5 |
| 5620.5 | 18.63 | -0.00 | 0.9979 | 0.9456 | 0.3187 | -0.0000 | -0.3358 | 0.9442 | -0.0001 | 0. | 5620.5 |
| 5630.5 | 28.55 | -0.00 | 0.9950 | 0.8740 | 0.4756 | -0.0000 | -0.4943 | 0.8750 | -0.0001 | 0. | 5630.5 |
| 5640.5 | 38.53 | -0.00 | 0.9924 | 0.7763 | 0.6182 | -0.0001 | -0.6394 | 0.7789 | -0.0001 | 0. | 5640.5 |
| 5650.5 | 48.56 | -0.00 | 0.9899 | 0.6551 | 0.7421 | -0.0001 | -0.7661 | 0.6584 | -0.0000 | 0. | 5650.5 |
| 5660.5 | 58.64 | -0.00 | 0.9878 | 0.5140 | 0.8435 | -0.0001 | -0.8704 | 0.5169 | -0.0000 | 0. | 5660.5 |
| 5670.5 | 68.76 | -0.00 | 0.9860 | 0.3572 | 0.9190 | -0.0001 | -0.9486 | 0.3588 | -0.0000 | 0. | 5670.5 |
| 5680.5 | 78.91 | -0.00 | 0.9846 | 0.1893 | 0.9662 | -0.0001 | -0.9978 | 0.1888 | -0.0000 | 0. | 5680.5 |
| 5690.5 | 89.09 | -0.00 | 0.9837 | 0.0156 | 0.9836 | -0.0001 | -1.0164 | 0.0124 | 0.0000 | 0. | 5690.5 |
| 5700.5 | 99.28 | -0.00 | 0.9833 | -0.1585 | 0.9704 | -0.0001 | -1.0034 | -0.1648 | 0.0000 | 0. | 5700.5 |
| 5710.5 | 109.47 | -0.00 | 0.9834 | -0.3278 | 0.9272 | -0.0001 | -0.9593 | -0.3369 | 0.0000 | 0. | 5710.5 |
| 5720.5 | 119.65 | -0.00 | 0.9840 | -0.4869 | 0.8551 | -0.0001 | -0.8855 | -0.4984 | 0.0000 | 0. | 5720.5 |
| 5730.5 | 129.82 | -0.00 | 0.9851 | -0.6309 | 0.7566 | -0.0001 | -0.7845 | -0.6440 | 0.0001 | 0. | 5730.5 |
| 5740.5 | 139.96 | -0.00 | 0.9867 | -0.7554 | 0.6347 | -0.0000 | -0.6597 | -0.7692 | 0.0001 | 0. | 5740.5 |
| 5750.5 | 150.06 | -0.00 | 0.9886 | -0.8567 | 0.4934 | -0.0000 | -0.5154 | -0.8702 | 0.0001 | 0. | 5750.5 |
| 5760.5 | 160.12 | -0.00 | 0.9909 | -0.9319 | 0.3369 | -0.0000 | -0.3564 | -0.9441 | 0.0001 | 0. | 5760.5 |
| 5770.5 | 170.13 | -0.00 | 0.9935 | -0.9788 | 0.1702 | -0.0000 | -0.1877 | -0.9889 | 0.0001 | 0. | 5770.5 |
| 5780.5 | 180.09 | 0.00 | 0.9962 | -0.9962 | -0.0016 | 0.0000 | -0.0147 | -1.0037 | 0.0001 | 0. | 5780.5 |
| 5790.5 | 189.99 | 0.00 | 0.9991 | -0.9839 | -0.1734 | 0.0000 | 0.1572 | -0.9885 | 0.0001 | 0. | 5790.5 |
| 5800.5 | 199.84 | 0.00 | 1.0019 | -0.9425 | -0.3400 | 0.0000 | 0.3231 | -0.9443 | 0.0001 | 0. | 5800.5 |
| 5810.5 | 209.63 | 0.00 | 1.0048 | -0.8734 | -0.4967 | 0.0000 | 0.4781 | -0.8729 | 0.0001 | 0. | 5810.5 |
| 5820.5 | 219.36 | 0.00 | 1.0074 | -0.7789 | -0.6389 | 0.0001 | 0.6180 | -0.7768 | 0.0001 | 0. | 5820.5 |
| 5830.5 | 229.05 | 0.00 | 1.0098 | -0.6619 | -0.7627 | 0.0001 | 0.7390 | -0.6590 | 0.0000 | 0. | 5830.5 |
| 5840.5 | 238.69 | 0.00 | 1.0120 | -0.5259 | -0.8646 | 0.0001 | 0.8382 | -0.5233 | 0.0000 | 0. | 5840.5 |
| 5850.5 | 248.30 | 0.00 | 1.0138 | -0.3749 | -0.9419 | 0.0001 | 0.9129 | -0.3734 | 0.0000 | 0. | 5850.5 |
| 5860.5 | 257.87 | 0.00 | 1.0152 | -0.2133 | -0.9925 | 0.0001 | 0.9615 | -0.2137 | 0.0000 | 0. | 5860.5 |
| 5870.5 | 267.42 | 0.00 | 1.0161 | -0.0457 | -1.0151 | 0.0001 | 0.9828 | -0.0485 | -0.0000 | 0. | 5870.5 |
| 5880.5 | 276.96 | 0.00 | 1.0166 | 0.1232 | -1.0091 | 0.0001 | 0.9764 | 0.1177 | -0.0000 | 0. | 5880.5 |
| 5890.5 | 286.49 | 0.00 | 1.0167 | 0.2887 | -0.9748 | 0.0001 | 0.9426 | 0.2804 | -0.0000 | 0. | 5890.5 |
| 5900.5 | 296.03 | 0.00 | 1.0162 | 0.4460 | -0.9131 | 0.0001 | 0.8823 | 0.4354 | -0.0000 | 0. | 5900.5 |
| 5910.5 | 305.58 | 0.00 | 1.0153 | 0.5908 | -0.8257 | 0.0001 | 0.7970 | 0.5784 | -0.0001 | 0. | 5910.5 |
| 5920.5 | 315.16 | 0.00 | 1.0139 | 0.7189 | -0.7150 | 0.0001 | 0.6889 | 0.7056 | -0.0001 | 0. | 5920.5 |
| 5930.5 | 324.76 | 0.00 | 1.0122 | 0.8267 | -0.5841 | 0.0000 | 0.5608 | 0.8133 | -0.0001 | 0. | 5930.5 |
| 5940.5 | 334.40 | 0.00 | 1.0101 | 0.9109 | -0.4365 | 0.0000 | 0.4159 | 0.8984 | -0.0001 | 0. | 5940.5 |
| 5950.5 | 344.08 | 0.00 | 1.0077 | 0.9690 | -0.2764 | 0.0000 | 0.2580 | 0.9582 | -0.0001 | 0. | 5950.5 |
| 5960.5 | 353.81 | 0.00 | 1.0050 | 0.9992 | -0.1084 | 0.0000 | 0.0915 | 0.9908 | -0.0001 | 0. | 5960.5 |
| 5970.5 | 3.59 | -0.00 | 1.0022 | 1.0003 | 0.0628 | -0.0000 | -0.0790 | 0.9946 | -0.0001 | 0. | 5970.5 |
| 5980.5 | 13.43 | -0.00 | 0.9994 | 0.9720 | 0.2321 | -0.0000 | -0.2486 | 0.9693 | -0.0001 | 0. | 5980.5 |
| 5990.5 | 23.33 | -0.00 | 0.9965 | 0.9151 | 0.3946 | -0.0000 | -0.4124 | 0.9149 | -0.0001 | 0. | 5990.5 |
| 6000.5 | 33.28 | -0.00 | 0.9937 | 0.8308 | 0.5453 | -0.0000 | -0.5651 | 0.8326 | -0.0001 | 0. | 6000.5 |
| 6010.5 | 43.28 | -0.00 | 0.9912 | 0.7215 | 0.6796 | -0.0001 | -0.7021 | 0.7245 | -0.0001 | 0. | 6010.5 |
| 6020.5 | 53.34 | -0.00 | 0.9888 | 0.5904 | 0.7932 | -0.0001 | -0.8186 | 0.5936 | -0.0000 | 0. | 6020.5 |
| 6030.5 | 63.44 | -0.00 | 0.9869 | 0.4413 | 0.8827 | -0.0001 | -0.9109 | 0.4437 | -0.0000 | 0. | 6030.5 |
| 6040.5 | 73.57 | -0.00 | 0.9853 | 0.2786 | 0.9451 | -0.0001 | -0.9757 | 0.2793 | -0.0000 | 0. | 6040.5 |
| 6050.5 | 83.74 | -0.00 | 0.9841 | 0.1073 | 0.9782 | -0.0001 | -1.0105 | 0.1055 | -0.0000 | 0. | 6050.5 |
| 6060.5 | 93.92 | -0.00 | 0.9835 | -0.0673 | 0.9811 | -0.0001 | -1.0141 | -0.0719 | 0.0000 | 0. | 6060.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | HELIOCENTRIC ECLIPTIC POSITION RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6070.5 | 104.11 | -0.00 | 0.9833 | -0.2398 | 0.9536 | -0.0001 | -0.9863 | -0.2474 | 0.0000 | 0. | 6070.5 |
| 6080.5 | 114.30 | -0.00 | 0.9836 | -0.4048 | 0.8965 | -0.0001 | -0.9278 | -0.4152 | 0.0000 | 0. | 6080.5 |
| 6090.5 | 124.48 | -0.00 | 0.9845 | -0.5573 | 0.8115 | -0.0001 | -0.8408 | -0.5697 | 0.0001 | 0. | 6090.5 |
| 6100.5 | 134.63 | -0.00 | 0.9858 | -0.6926 | 0.7015 | -0.0001 | -0.7280 | -0.7062 | 0.0001 | 0. | 6100.5 |
| 6110.5 | 144.76 | -0.00 | 0.9876 | -0.8066 | 0.5699 | -0.0000 | -0.5935 | -0.8204 | 0.0001 | 0. | 6110.5 |
| 6120.5 | 154.84 | -0.00 | 0.9897 | -0.8958 | 0.4207 | -0.0000 | -0.4415 | -0.9088 | 0.0001 | 0. | 6120.5 |
| 6130.5 | 164.88 | -0.00 | 0.9921 | -0.9578 | 0.2588 | -0.0000 | -0.2772 | -0.9690 | 0.0001 | 0. | 6130.5 |
| 6140.5 | 174.86 | 0.00 | 0.9948 | -0.9908 | 0.0890 | 0.0000 | -0.1059 | -0.9997 | 0.0001 | 0. | 6140.5 |
| 6150.5 | 184.80 | 0.00 | 0.9976 | -0.9941 | -0.0834 | 0.0000 | 0.0673 | -1.0002 | 0.0001 | 0. | 6150.5 |
| 6160.5 | 194.67 | 0.00 | 1.0004 | -0.9678 | -0.2534 | 0.0000 | 0.2369 | -0.9711 | 0.0001 | 0. | 6160.5 |
| 6170.5 | 204.49 | 0.00 | 1.0033 | -0.9130 | -0.4159 | 0.0000 | 0.3982 | -0.9137 | 0.0001 | 0. | 6170.5 |
| 6180.5 | 214.25 | 0.00 | 1.0060 | -0.8316 | -0.5662 | 0.0001 | 0.5466 | -0.8302 | 0.0001 | 0. | 6180.5 |
| 6190.5 | 223.96 | 0.00 | 1.0086 | -0.7260 | -0.7002 | 0.0001 | 0.6779 | -0.7234 | 0.0001 | 0. | 6190.5 |
| 6200.5 | 233.63 | 0.00 | 1.0109 | -0.5995 | -0.8140 | 0.0001 | 0.7889 | -0.5967 | 0.0000 | 0. | 6200.5 |
| 6210.5 | 243.25 | 0.00 | 1.0129 | -0.4559 | -0.9045 | 0.0001 | 0.8768 | -0.4537 | 0.0000 | 0. | 6210.5 |
| 6220.5 | 252.84 | 0.00 | 1.0145 | -0.2993 | -0.9693 | 0.0001 | 0.9393 | -0.2986 | 0.0000 | 0. | 6220.5 |
| 6230.5 | 262.40 | 0.00 | 1.0157 | -0.1343 | -1.0068 | 0.0001 | 0.9750 | -0.1357 | 0.0000 | 0. | 6230.5 |
| 6240.5 | 271.95 | 0.00 | 1.0164 | 0.0346 | -1.0159 | 0.0001 | 0.9832 | 0.0305 | -0.0000 | 0. | 6240.5 |
| 6250.5 | 281.48 | 0.00 | 1.0167 | 0.2024 | -0.9964 | 0.0001 | 0.9638 | 0.1956 | -0.0000 | 0. | 6250.5 |
| 6260.5 | 291.02 | 0.00 | 1.0165 | 0.3646 | -0.9489 | 0.0001 | 0.9173 | 0.3552 | -0.0000 | 0. | 6260.5 |
| 6270.5 | 300.56 | 0.00 | 1.0158 | 0.5165 | -0.8747 | 0.0001 | 0.8449 | 0.5050 | -0.0000 | 0. | 6270.5 |
| 6280.5 | 310.12 | 0.00 | 1.0147 | 0.6539 | -0.7759 | 0.0001 | 0.7485 | 0.6410 | -0.0001 | 0. | 6280.5 |
| 6290.5 | 319.71 | 0.00 | 1.0132 | 0.7728 | -0.6552 | 0.0000 | 0.6305 | 0.7593 | -0.0001 | 0. | 6290.5 |
| 6300.5 | 329.32 | 0.00 | 1.0112 | 0.8697 | -0.5159 | 0.0000 | 0.4939 | 0.8567 | -0.0001 | 0. | 6300.5 |
| 6310.5 | 338.98 | 0.00 | 1.0090 | 0.9418 | -0.3619 | 0.0000 | 0.3424 | 0.9301 | -0.0001 | 0. | 6310.5 |
| 6320.5 | 348.69 | 0.00 | 1.0064 | 0.9869 | -0.1974 | 0.0000 | 0.1799 | 0.9772 | -0.0001 | 0. | 6320.5 |
| 6330.5 | 358.44 | -0.00 | 1.0037 | 1.0033 | -0.0273 | -0.0000 | 0.0108 | 0.9962 | -0.0001 | 0. | 6330.5 |
| 6340.5 | 8.25 | -0.00 | 1.0009 | 0.9905 | 0.1437 | -0.0000 | -0.1599 | 0.9863 | -0.0001 | 0. | 6340.5 |
| 6350.5 | 18.12 | -0.00 | 0.9980 | 0.9485 | 0.3104 | -0.0000 | -0.3274 | 0.9470 | -0.0001 | 0. | 6350.5 |
| 6360.5 | 28.04 | -0.00 | 0.9952 | 0.8784 | 0.4678 | -0.0000 | -0.4865 | 0.8792 | -0.0001 | 0. | 6360.5 |
| 6370.5 | 38.02 | -0.00 | 0.9925 | 0.7819 | 0.6113 | -0.0001 | -0.6323 | 0.7844 | -0.0001 | 0. | 6370.5 |
| 6380.5 | 48.05 | -0.00 | 0.9900 | 0.6618 | 0.7363 | -0.0001 | -0.7601 | 0.6651 | -0.0000 | 0. | 6380.5 |
| 6390.5 | 58.12 | -0.00 | 0.9879 | 0.5217 | 0.8389 | -0.0001 | -0.8657 | 0.5246 | -0.0000 | 0. | 6390.5 |
| 6400.5 | 68.24 | -0.00 | 0.9860 | 0.3655 | 0.9158 | -0.0001 | -0.9452 | 0.3672 | -0.0000 | 0. | 6400.5 |
| 6410.5 | 78.39 | -0.00 | 0.9847 | 0.1981 | 0.9645 | -0.0001 | -0.9960 | 0.1977 | -0.0000 | 0. | 6410.5 |
| 6420.5 | 88.57 | -0.00 | 0.9837 | 0.0246 | 0.9834 | -0.0001 | -1.0162 | 0.0215 | 0.0000 | 0. | 6420.5 |
| 6430.5 | 98.76 | -0.00 | 0.9833 | -0.1497 | 0.9719 | -0.0001 | -1.0048 | -0.1558 | 0.0000 | 0. | 6430.5 |
| 6440.5 | 108.95 | -0.00 | 0.9834 | -0.3193 | 0.9301 | -0.0001 | -0.9623 | -0.3283 | 0.0000 | 0. | 6440.5 |
| 6450.5 | 119.13 | -0.00 | 0.9840 | -0.4790 | 0.8595 | -0.0001 | -0.8900 | -0.4904 | 0.0000 | 0. | 6450.5 |
| 6460.5 | 129.30 | -0.00 | 0.9851 | -0.6239 | 0.7623 | 0.0001 | -0.7903 | -0.6370 | 0.0001 | 0. | 6460.5 |
| 6470.5 | 139.44 | -0.00 | 0.9866 | -0.7496 | 0.6415 | 0.0000 | -0.6667 | -0.7634 | 0.0001 | 0. | 6470.5 |
| 6480.5 | 149.55 | -0.00 | 0.9885 | -0.8521 | 0.5010 | 0.0000 | -0.5233 | -0.8657 | 0.0001 | 0. | 6480.5 |
| 6490.5 | 159.61 | -0.00 | 0.9908 | -0.9287 | 0.3452 | 0.0000 | -0.3648 | -0.9410 | 0.0001 | 0. | 6490.5 |
| 6500.5 | 169.62 | -0.00 | 0.9933 | -0.9771 | 0.1789 | 0.0000 | -0.1965 | -0.9873 | 0.0001 | 0. | 6500.5 |
| 6510.5 | 179.58 | 0.00 | 0.9961 | -0.9961 | 0.0073 | 0.0000 | -0.0236 | -1.0036 | 0.0001 | 0. | 6510.5 |
| 6520.5 | 189.49 | 0.00 | 0.9989 | -0.9853 | -0.1646 | 0.0000 | 0.1485 | -0.9900 | 0.0001 | 0. | 6520.5 |
| 6530.5 | 199.33 | 0.00 | 1.0018 | -0.9453 | -0.3317 | 0.0000 | 0.3148 | -0.9473 | 0.0001 | 0. | 6530.5 |
| 6540.5 | 209.13 | 0.00 | 1.0046 | -0.8776 | -0.4890 | 0.0000 | 0.4704 | -0.8772 | 0.0001 | 0. | 6540.5 |
| 6550.5 | 218.86 | 0.00 | 1.0073 | -0.7843 | -0.6320 | 0.0001 | 0.6112 | -0.7823 | 0.0001 | 0. | 6550.5 |
| 6560.5 | 228.55 | 0.00 | 1.0097 | -0.6684 | -0.7569 | 0.0001 | 0.7333 | -0.6656 | 0.0000 | 0. | 6560.5 |
| 6570.5 | 238.20 | 0.00 | 1.0119 | -0.5333 | -0.8600 | 0.0001 | 0.8336 | -0.5306 | 0.0000 | 0. | 6570.5 |
| 6580.5 | 247.80 | 0.00 | 1.0137 | -0.3830 | -0.9386 | 0.0001 | 0.9097 | -0.3814 | 0.0000 | 0. | 6580.5 |
| 6590.5 | 257.38 | 0.00 | 1.0151 | -0.2218 | -0.9906 | 0.0001 | 0.9596 | -0.2220 | 0.0000 | 0. | 6590.5 |
| 6600.5 | 266.93 | 0.00 | 1.0161 | -0.0544 | -1.0147 | 0.0001 | 0.9824 | -0.0570 | -0.0000 | 0. | 6600.5 |
| 6610.5 | 276.47 | 0.00 | 1.0166 | 0.1146 | -1.0101 | 0.0001 | 0.9774 | 0.1092 | -0.0000 | 0. | 6610.5 |
| 6620.5 | 286.01 | 0.00 | 1.0167 | 0.2803 | -0.9773 | 0.0001 | 0.9450 | 0.2722 | -0.0000 | 0. | 6620.5 |
| 6630.5 | 295.54 | 0.00 | 1.0162 | 0.4382 | -0.9169 | 0.0001 | 0.8860 | 0.4277 | -0.0000 | 0. | 6630.5 |
| 6640.5 | 305.09 | 0.00 | 1.0154 | 0.5837 | -0.8308 | 0.0001 | 0.8020 | 0.5715 | -0.0001 | 0. | 6640.5 |
| 6650.5 | 314.66 | 0.00 | 1.0140 | 0.7128 | -0.7212 | 0.0001 | 0.6950 | 0.6995 | -0.0001 | 0. | 6650.5 |
| 6660.5 | 324.26 | 0.00 | 1.0123 | 0.8217 | -0.5912 | 0.0000 | 0.5678 | 0.8083 | -0.0001 | 0. | 6660.5 |
| 6670.5 | 333.90 | 0.00 | 1.0102 | 0.9072 | -0.4444 | 0.0000 | 0.4237 | 0.8946 | -0.0001 | 0. | 6670.5 |
| 6680.5 | 343.58 | 0.00 | 1.0078 | 0.9667 | -0.2849 | 0.0000 | 0.2664 | 0.9558 | -0.0001 | 0. | 6680.5 |
| 6690.5 | 353.31 | 0.00 | 1.0052 | 0.9983 | -0.1171 | 0.0000 | 0.1002 | 0.9898 | -0.0001 | 0. | 6690.5 |
| 6700.5 | 3.09 | -0.00 | 1.0024 | 1.0009 | 0.0540 | -0.0000 | -0.0702 | 0.9952 | -0.0001 | 0. | 6700.5 |
| 6710.5 | 12.92 | -0.00 | 0.9995 | 0.9742 | 0.2236 | -0.0000 | -0.2400 | 0.9713 | -0.0001 | 0. | 6710.5 |
| 6720.5 | 22.82 | -0.00 | 0.9967 | 0.9187 | 0.3865 | -0.0000 | -0.4042 | 0.9183 | -0.0001 | 0. | 6720.5 |
| 6730.5 | 32.77 | -0.00 | 0.9939 | 0.8357 | 0.5379 | -0.0001 | -0.5576 | 0.8375 | -0.0001 | 0. | 6730.5 |
| 6740.5 | 42.77 | -0.00 | 0.9913 | 0.7277 | 0.6731 | -0.0001 | -0.6955 | 0.7307 | -0.0001 | 0. | 6740.5 |
| 6750.5 | 52.82 | -0.00 | 0.9890 | 0.5976 | 0.7880 | -0.0001 | -0.8132 | 0.6008 | -0.0000 | 0. | 6750.5 |
| 6760.5 | 62.92 | -0.00 | 0.9870 | 0.4493 | 0.8787 | -0.0001 | -0.9068 | 0.4518 | -0.0000 | 0. | 6760.5 |
| 6770.5 | 73.05 | -0.00 | 0.9853 | 0.2872 | 0.9426 | -0.0001 | -0.9731 | 0.2880 | -0.0000 | 0. | 6770.5 |
| 6780.5 | 83.22 | -0.00 | 0.9842 | 0.1162 | 0.9773 | -0.0001 | -1.0095 | 0.1146 | -0.0000 | 0. | 6780.5 |
| 6790.5 | 93.40 | -0.00 | 0.9835 | -0.0583 | 0.9817 | -0.0001 | -1.0147 | 0.0628 | 0.0000 | 0. | 6790.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6800.5 | 103.59 | -0.00 | 0.9833 | -0.2311 | 0.9558 | -0.0001 | -0.9885 | -0.2385 | 0.0000 | 0. | 6800.5 |
| 6810.5 | 113.78 | -0.00 | 0.9836 | -0.3966 | 0.9001 | -0.0001 | -0.9316 | -0.4068 | 0.0000 | 0. | 6810.5 |
| 6820.5 | 123.96 | -0.00 | 0.9844 | -0.5499 | 0.8165 | -0.0001 | -0.8459 | -0.5622 | 0.0001 | 0. | 6820.5 |
| 6830.5 | 134.11 | -0.00 | 0.9857 | -0.6862 | 0.7077 | -0.0001 | -0.7344 | -0.6997 | 0.0001 | 0. | 6830.5 |
| 6840.5 | 144.24 | -0.00 | 0.9875 | -0.8013 | 0.5771 | -0.0000 | -0.6008 | -0.8151 | 0.0001 | 0. | 6840.5 |
| 6850.5 | 154.33 | -0.00 | 0.9896 | -0.8919 | 0.4287 | -0.0000 | -0.4497 | -0.9049 | 0.0001 | 0. | 6850.5 |
| 6860.5 | 164.36 | -0.00 | 0.9920 | -0.9553 | 0.2673 | -0.0000 | -0.2859 | -0.9667 | 0.0001 | 0. | 6860.5 |
| 6870.5 | 174.35 | 0.00 | 0.9946 | -0.9898 | 0.0979 | 0.0000 | -0.1147 | -0.9988 | 0.0001 | 0. | 6870.5 |
| 6880.5 | 184.29 | 0.00 | 0.9974 | -0.9946 | -0.0746 | 0.0000 | 0.0584 | -1.0009 | 0.0001 | 0. | 6880.5 |
| 6890.5 | 194.16 | 0.00 | 1.0003 | -0.9699 | -0.2448 | 0.0000 | 0.2284 | -0.9733 | 0.0001 | 0. | 6890.5 |
| 6900.5 | 203.99 | 0.00 | 1.0031 | -0.9165 | -0.4078 | 0.0000 | 0.3902 | -0.9173 | 0.0001 | 0. | 6900.5 |
| 6910.5 | 213.75 | 0.00 | 1.0059 | -0.8364 | -0.5589 | 0.0001 | 0.5393 | -0.8351 | 0.0001 | 0. | 6910.5 |
| 6920.5 | 223.47 | 0.00 | 1.0085 | -0.7319 | -0.6937 | 0.0001 | 0.6717 | -0.7294 | 0.0001 | 0. | 6920.5 |
| 6930.5 | 233.13 | 0.00 | 1.0108 | -0.6064 | -0.8087 | 0.0001 | 0.7838 | -0.6036 | 0.0000 | 0. | 6930.5 |
| 6940.5 | 242.76 | 0.00 | 1.0128 | -0.4636 | -0.9005 | 0.0001 | 0.8729 | -0.4613 | 0.0000 | 0. | 6940.5 |
| 6950.5 | 252.35 | 0.00 | 1.0144 | -0.3076 | -0.9667 | 0.0001 | 0.9367 | -0.3068 | 0.0000 | 0. | 6950.5 |
| 6960.5 | 261.91 | 0.00 | 1.0156 | -0.1429 | -1.0055 | 0.0001 | 0.9739 | -0.1442 | 0.0000 | 0. | 6960.5 |
| 6970.5 | 271.46 | 0.00 | 1.0164 | 0.0259 | -1.0161 | 0.0001 | 0.9835 | 0.0219 | -0.0000 | 0. | 6970.5 |
| 6980.5 | 280.99 | 0.00 | 1.0167 | 0.1939 | -0.9980 | 0.0001 | 0.9654 | 0.1872 | -0.0000 | 0. | 6980.5 |
| 6990.5 | 290.53 | 0.00 | 1.0165 | 0.3565 | -0.9520 | 0.0001 | 0.9203 | 0.3472 | -0.0000 | 0. | 6990.5 |
| 7000.5 | 300.07 | 0.00 | 1.0159 | 0.5090 | -0.8791 | 0.0001 | 0.8492 | 0.4976 | -0.0000 | 0. | 7000.5 |
| 7010.5 | 309.63 | 0.00 | 1.0148 | 0.6473 | -0.7816 | 0.0001 | 0.7539 | 0.6344 | -0.0001 | 0. | 7010.5 |
| 7020.5 | 319.21 | 0.00 | 1.0132 | 0.7672 | -0.6619 | 0.0001 | 0.6370 | 0.7537 | -0.0001 | 0. | 7020.5 |
| 7030.5 | 328.83 | 0.00 | 1.0113 | 0.8653 | -0.5234 | 0.0000 | 0.5013 | 0.8522 | -0.0001 | 0. | 7030.5 |
| 7040.5 | 338.49 | 0.00 | 1.0091 | 0.9388 | -0.3701 | 0.0000 | 0.3504 | 0.9269 | -0.0001 | 0. | 7040.5 |
| 7050.5 | 348.19 | 0.00 | 1.0066 | 0.9853 | -0.2060 | 0.0000 | 0.1884 | 0.9754 | -0.0001 | 0. | 7050.5 |
| 7060.5 | 357.94 | -0.00 | 1.0039 | 1.0032 | -0.0361 | -0.0000 | 0.0196 | 0.9960 | -0.0001 | 0. | 7060.5 |
| 7070.5 | 7.75 | -0.00 | 1.0010 | 0.9919 | 0.1349 | -0.0000 | -0.1512 | 0.9875 | -0.0001 | 0. | 7070.5 |
| 7080.5 | 17.61 | -0.00 | 0.9981 | 0.9514 | 0.3020 | -0.0000 | -0.3189 | 0.9497 | -0.0001 | 0. | 7080.5 |
| 7090.5 | 27.53 | -0.00 | 0.9953 | 0.8826 | 0.4601 | -0.0000 | -0.4786 | 0.8834 | -0.0001 | 0. | 7090.5 |
| 7100.5 | 37.50 | -0.00 | 0.9926 | 0.7875 | 0.6043 | -0.0001 | -0.6253 | 0.7899 | -0.0001 | 0. | 7100.5 |
| 7110.5 | 47.53 | -0.00 | 0.9902 | 0.6685 | 0.7304 | -0.0001 | -0.7541 | 0.6717 | -0.0001 | 0. | 7110.5 |
| 7120.5 | 57.61 | -0.00 | 0.9880 | 0.5293 | 0.8342 | -0.0001 | -0.8608 | 0.5323 | -0.0000 | 0. | 7120.5 |
| 7130.5 | 67.72 | -0.00 | 0.9861 | 0.3738 | 0.9125 | -0.0001 | -0.9418 | 0.3756 | -0.0000 | 0. | 7130.5 |
| 7140.5 | 77.87 | -0.00 | 0.9847 | 0.2069 | 0.9627 | -0.0001 | -0.9942 | 0.2066 | -0.0000 | 0. | 7140.5 |
| 7150.5 | 88.04 | -0.00 | 0.9838 | 0.0336 | 0.9832 | -0.0001 | -1.0159 | 0.0306 | 0.0000 | 0. | 7150.5 |
| 7160.5 | 98.23 | -0.00 | 0.9833 | -0.1408 | 0.9732 | -0.0001 | -1.0062 | -0.1467 | 0.0000 | 0. | 7160.5 |
| 7170.5 | 108.42 | -0.00 | 0.9834 | -0.3108 | 0.9330 | -0.0001 | -0.9652 | -0.3196 | 0.0000 | 0. | 7170.5 |
| 7180.5 | 118.61 | -0.00 | 0.9839 | -0.4712 | 0.8638 | -0.0001 | -0.8944 | -0.4825 | 0.0000 | 0. | 7180.5 |
| 7190.5 | 128.78 | -0.00 | 0.9850 | -0.6169 | 0.7679 | -0.0001 | -0.7960 | -0.6299 | 0.0001 | 0. | 7190.5 |
| 7200.5 | 138.92 | -0.00 | 0.9865 | -0.7436 | 0.6482 | -0.0000 | -0.6735 | -0.7575 | 0.0001 | 0. | 7200.5 |
| 7210.5 | 149.03 | -0.00 | 0.9884 | -0.8475 | 0.5086 | -0.0000 | -0.5310 | -0.8611 | 0.0001 | 0. | 7210.5 |
| 7220.5 | 159.09 | -0.00 | 0.9907 | -0.9255 | 0.3535 | -0.0000 | -0.3732 | -0.9378 | 0.0001 | 0. | 7220.5 |
| 7230.5 | 169.11 | -0.00 | 0.9932 | -0.9753 | 0.1876 | -0.0000 | -0.2053 | -0.9857 | 0.0001 | 0. | 7230.5 |
| 7240.5 | 179.07 | 0.00 | 0.9959 | -0.9958 | 0.0161 | -0.0000 | -0.0325 | -1.0035 | 0.0001 | 0. | 7240.5 |
| 7250.5 | 188.98 | 0.00 | 0.9988 | -0.9865 | -0.1559 | 0.0000 | 0.1398 | -0.9914 | 0.0001 | 0. | 7250.5 |
| 7260.5 | 198.83 | 0.00 | 1.0017 | -0.9480 | -0.3233 | 0.0000 | 0.3065 | -0.9501 | 0.0001 | 0. | 7260.5 |
| 7270.5 | 208.62 | 0.00 | 1.0045 | -0.8817 | -0.4812 | 0.0000 | 0.4628 | -0.8814 | 0.0001 | 0. | 7270.5 |
| 7280.5 | 218.37 | 0.00 | 1.0071 | -0.7897 | -0.6251 | 0.0001 | 0.6044 | -0.7877 | 0.0001 | 0. | 7280.5 |
| 7290.5 | 228.06 | 0.00 | 1.0096 | -0.6748 | -0.7510 | 0.0001 | 0.7276 | -0.6720 | 0.0001 | 0. | 7290.5 |
| 7300.5 | 237.70 | 0.00 | 1.0118 | -0.5406 | -0.8553 | 0.0001 | 0.8291 | -0.5379 | 0.0000 | 0. | 7300.5 |
| 7310.5 | 247.31 | 0.00 | 1.0136 | -0.3910 | -0.9352 | 0.0001 | 0.9064 | -0.3893 | 0.0000 | 0. | 7310.5 |
| 7320.5 | 256.89 | 0.00 | 1.0151 | -0.2302 | -0.9886 | 0.0001 | 0.9577 | -0.2304 | 0.0000 | 0. | 7320.5 |
| 7330.5 | 266.44 | 0.01 | 1.0161 | -0.0630 | -1.0141 | 0.0001 | 0.9819 | -0.0656 | -0.0000 | 0. | 7330.5 |
| 7340.5 | 275.98 | 0.00 | 1.0166 | 0.1060 | -1.0111 | 0.0001 | 0.9784 | 0.1007 | -0.0000 | 0. | 7340.5 |
| 7350.5 | 285.52 | 0.00 | 1.0167 | 0.2720 | -0.9796 | 0.0001 | 0.9473 | 0.2640 | -0.0000 | 0. | 7350.5 |
| 7360.5 | 295.05 | 0.00 | 1.0163 | 0.4304 | -0.9207 | 0.0001 | 0.8897 | 0.4200 | -0.0000 | 0. | 7360.5 |
| 7370.5 | 304.60 | 0.00 | 1.0154 | 0.5766 | -0.8358 | 0.0001 | 0.8069 | 0.5644 | -0.0001 | 0. | 7370.5 |
| 7380.5 | 314.17 | 0.00 | 1.0141 | 0.7067 | -0.7274 | 0.0001 | 0.7010 | 0.6934 | -0.0001 | 0. | 7380.5 |
| 7390.5 | 323.77 | 0.00 | 1.0124 | 0.8166 | -0.5983 | 0.0000 | 0.5748 | 0.8032 | -0.0001 | 0. | 7390.5 |
| 7400.5 | 333.41 | 0.00 | 1.0103 | 0.9034 | -0.4523 | 0.0000 | 0.4314 | 0.8908 | -0.0001 | 0. | 7400.5 |
| 7410.5 | 343.08 | 0.00 | 1.0079 | 0.9643 | -0.2933 | 0.0000 | 0.2747 | 0.9533 | -0.0001 | 0. | 7410.5 |
| 7420.5 | 352.81 | 0.00 | 1.0053 | 0.9974 | -0.1259 | 0.0000 | 0.1089 | 0.9887 | -0.0001 | 0. | 7420.5 |
| 7430.5 | 2.59 | -0.00 | 1.0025 | 1.0015 | 0.0452 | -0.0000 | -0.0615 | 0.9956 | -0.0001 | 0. | 7430.5 |
| 7440.5 | 12.42 | -0.00 | 0.9997 | 0.9763 | 0.2150 | -0.0000 | -0.2314 | 0.9732 | -0.0001 | 0. | 7440.5 |
| 7450.5 | 22.31 | -0.00 | 0.9968 | 0.9222 | 0.3784 | -0.0000 | -0.3960 | 0.9217 | -0.0001 | 0. | 7450.5 |
| 7460.5 | 32.26 | -0.00 | 0.9940 | 0.8406 | 0.5305 | -0.0001 | -0.5501 | 0.8423 | -0.0001 | 0. | 7460.5 |
| 7470.5 | 42.26 | -0.00 | 0.9914 | 0.7338 | 0.6667 | -0.0001 | -0.6889 | 0.7367 | -0.0001 | 0. | 7470.5 |
| 7480.5 | 52.31 | -0.00 | 0.9891 | 0.6048 | 0.7826 | -0.0001 | -0.8077 | 0.6080 | -0.0000 | 0. | 7480.5 |
| 7490.5 | 62.40 | -0.00 | 0.9870 | 0.4573 | 0.8747 | -0.0001 | -0.9027 | 0.4598 | -0.0000 | 0. | 7490.5 |
| 7500.5 | 72.53 | -0.00 | 0.9854 | 0.2958 | 0.9400 | -0.0001 | -0.9704 | 0.2967 | -0.0000 | 0. | 7500.5 |
| 7510.5 | 82.69 | -0.01 | 0.9842 | 0.1251 | 0.9762 | -0.0001 | -1.0084 | 0.1236 | -0.0000 | 0. | 7510.5 |
| 7520.5 | 92.88 | -0.01 | 0.9835 | -0.0494 | 0.9823 | -0.0001 | -1.0152 | -0.0537 | 0.0000 | 0. | 7520.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 7530.5 | 103.07 | -0.00 | 0.9833 | -0.2223 | 0.9578 | -0.0001 | -0.9906 | -0.2297 | 0.0000 | 0. | 7530.5 |
| 7540.5 | 113.26 | -0.00 | 0.9836 | -0.3884 | 0.9037 | -0.0001 | -0.9352 | -0.3985 | 0.0000 | 0. | 7540.5 |
| 7550.5 | 123.44 | -0.00 | 0.9844 | -0.5424 | 0.8215 | -0.0001 | -0.8510 | -0.5546 | 0.0001 | 0. | 7550.5 |
| 7560.5 | 133.59 | -0.00 | 0.9857 | -0.6797 | 0.7139 | -0.0001 | -0.7407 | -0.6932 | 0.0001 | 0. | 7560.5 |
| 7570.5 | 143.72 | -0.00 | 0.9874 | -0.7960 | 0.5842 | -0.0000 | -0.6081 | -0.8098 | 0.0001 | 0. | 7570.5 |
| 7580.5 | 153.81 | -0.00 | 0.9894 | -0.8879 | 0.4367 | -0.0000 | -0.4578 | -0.9010 | 0.0001 | 0. | 7580.5 |
| 7590.5 | 163.85 | -0.00 | 0.9918 | -0.9527 | 0.2759 | -0.0000 | -0.2945 | -0.9642 | 0.0001 | 0. | 7590.5 |
| 7600.5 | 173.84 | -0.00 | 0.9945 | -0.9887 | 0.1067 | -0.0000 | -0.1236 | -0.9979 | 0.0001 | 0. | 7600.5 |
| 7610.5 | 183.78 | 0.00 | 0.9973 | -0.9951 | -0.0657 | 0.0000 | 0.0496 | -1.0015 | 0.0001 | 0. | 7610.5 |
| 7620.5 | 193.66 | 0.00 | 1.0001 | -0.9719 | -0.2362 | 0.0000 | 0.2198 | -0.9754 | 0.0001 | 0. | 7620.5 |
| 7630.5 | 203.48 | 0.00 | 1.0030 | -0.9199 | -0.3997 | 0.0000 | 0.3822 | -0.9208 | 0.0001 | 0. | 7630.5 |
| 7640.5 | 213.25 | 0.00 | 1.0058 | -0.8411 | -0.5515 | 0.0001 | 0.5321 | -0.8399 | 0.0001 | 0. | 7640.5 |
| 7650.5 | 222.97 | 0.00 | 1.0083 | -0.7378 | -0.6873 | 0.0001 | 0.6654 | -0.7354 | 0.0001 | 0. | 7650.5 |
| 7660.5 | 232.64 | 0.00 | 1.0107 | -0.6133 | -0.8033 | 0.0001 | 0.7786 | -0.6105 | 0.0000 | 0. | 7660.5 |
| 7670.5 | 242.27 | 0.00 | 1.0127 | -0.4713 | -0.8964 | 0.0001 | 0.8689 | -0.4690 | 0.0000 | 0. | 7670.5 |
| 7680.5 | 251.86 | 0.01 | 1.0144 | -0.3158 | -0.9639 | 0.0001 | 0.9341 | -0.3149 | 0.0000 | 0. | 7680.5 |
| 7690.5 | 261.42 | 0.01 | 1.0156 | -0.1514 | -1.0042 | 0.0001 | 0.9726 | -0.1527 | 0.0000 | 0. | 7690.5 |
| 7700.5 | 270.97 | 0.01 | 1.0164 | 0.0172 | -1.0162 | 0.0001 | 0.9837 | 0.0134 | -0.0000 | 0. | 7700.5 |
| 7710.5 | 280.51 | 0.00 | 1.0167 | 0.1854 | -0.9997 | 0.0001 | 0.9670 | 0.1788 | -0.0000 | 0. | 7710.5 |
| 7720.5 | 290.04 | 0.00 | 1.0166 | 0.3484 | -0.9550 | 0.0001 | 0.9232 | 0.3392 | -0.0000 | 0. | 7720.5 |
| 7730.5 | 299.58 | 0.00 | 1.0159 | 0.5015 | -0.8835 | 0.0001 | 0.8534 | 0.4902 | -0.0001 | 0. | 7730.5 |
| 7740.5 | 309.14 | 0.00 | 1.0148 | 0.6406 | -0.7871 | 0.0001 | 0.7594 | 0.6278 | -0.0001 | 0. | 7740.5 |
| 7750.5 | 318.72 | 0.00 | 1.0133 | 0.7615 | -0.6685 | 0.0001 | 0.6435 | 0.7481 | -0.0001 | 0. | 7750.5 |
| 7760.5 | 328.34 | 0.00 | 1.0114 | 0.8609 | -0.5309 | 0.0000 | 0.5087 | 0.8477 | -0.0001 | 0. | 7760.5 |
| 7770.5 | 337.99 | 0.00 | 1.0092 | 0.9357 | -0.3782 | 0.0000 | 0.3585 | 0.9237 | -0.0001 | 0. | 7770.5 |
| 7780.5 | 347.69 | 0.00 | 1.0067 | 0.9836 | -0.2146 | 0.0000 | 0.1969 | 0.9736 | -0.0001 | 0. | 7780.5 |
| 7790.5 | 357.44 | -0.00 | 1.0040 | 1.0030 | -0.0449 | -0.0000 | 0.0283 | 0.9956 | -0.0001 | 0. | 7790.5 |
| 7800.5 | 7.24 | -0.00 | 1.0012 | 0.9932 | 0.1262 | -0.0000 | -0.1424 | 0.9886 | -0.0001 | 0. | 7800.5 |
| 7810.5 | 17.10 | -0.00 | 0.9983 | 0.9541 | 0.2936 | -0.0000 | -0.3105 | 0.9524 | -0.0001 | 0. | 7810.5 |
| 7820.5 | 27.02 | -0.00 | 0.9955 | 0.8868 | 0.4522 | -0.0000 | -0.4707 | 0.8874 | -0.0001 | 0. | 7820.5 |
| 7830.5 | 36.99 | -0.00 | 0.9928 | 0.7929 | 0.5974 | -0.0001 | -0.6181 | 0.7953 | -0.0001 | 0. | 7830.5 |
| 7840.5 | 47.02 | -0.00 | 0.9903 | 0.6752 | 0.7244 | -0.0001 | -0.7480 | 0.6783 | -0.0001 | 0. | 7840.5 |
| 7850.5 | 57.09 | -0.00 | 0.9881 | 0.5369 | 0.8295 | -0.0001 | -0.8560 | 0.5399 | -0.0000 | 0. | 7850.5 |
| 7860.5 | 67.20 | -0.00 | 0.9862 | 0.3821 | 0.9092 | -0.0001 | -0.9383 | 0.3840 | -0.0000 | 0. | 7860.5 |
| 7870.5 | 77.35 | -0.01 | 0.9848 | 0.2157 | 0.9609 | -0.0001 | -0.9922 | 0.2155 | -0.0000 | 0. | 7870.5 |
| 7880.5 | 87.52 | -0.01 | 0.9838 | 0.0425 | 0.9829 | -0.0001 | -1.0155 | 0.0397 | 0.0000 | 0. | 7880.5 |
| 7890.5 | 97.71 | -0.01 | 0.9833 | -0.1319 | 0.9744 | -0.0001 | -1.0074 | -0.1377 | 0.0000 | 0. | 7890.5 |
| 7900.5 | 107.90 | -0.00 | 0.9834 | -0.3023 | 0.9358 | -0.0001 | -0.9681 | -0.3110 | 0.0000 | 0. | 7900.5 |
| 7910.5 | 118.09 | -0.00 | 0.9839 | -0.4633 | 0.8680 | -0.0001 | -0.8987 | -0.4744 | 0.0001 | 0. | 7910.5 |
| 7920.5 | 128.26 | -0.00 | 0.9849 | -0.6099 | 0.7734 | -0.0001 | -0.8017 | -0.6228 | 0.0001 | 0. | 7920.5 |
| 7930.5 | 138.40 | -0.00 | 0.9864 | -0.7377 | 0.6549 | -0.0001 | -0.6803 | -0.7515 | 0.0001 | 0. | 7930.5 |
| 7940.5 | 148.51 | -0.00 | 0.9883 | -0.8428 | 0.5162 | -0.0000 | -0.5387 | -0.8564 | 0.0001 | 0. | 7940.5 |
| 7950.5 | 158.58 | -0.00 | 0.9906 | -0.9221 | 0.3618 | -0.0000 | -0.3816 | -0.9346 | 0.0001 | 0. | 7950.5 |
| 7960.5 | 168.60 | -0.00 | 0.9931 | -0.9735 | 0.1963 | -0.0000 | -0.2141 | -0.9839 | 0.0001 | 0. | 7960.5 |
| 7970.5 | 178.56 | 0.00 | 0.9958 | -0.9955 | 0.0250 | 0.0000 | -0.0414 | -1.0034 | 0.0001 | 0. | 7970.5 |
| 7980.5 | 188.47 | 0.00 | 0.9986 | -0.9877 | -0.1471 | 0.0000 | 0.1310 | -0.9928 | 0.0001 | 0. | 7980.5 |
| 7990.5 | 198.33 | 0.00 | 1.0015 | -0.9507 | -0.3149 | 0.0000 | 0.2981 | -0.9530 | 0.0001 | 0. | 7990.5 |
| 8000.5 | 208.12 | 0.00 | 1.0043 | -0.8857 | -0.4734 | 0.0001 | 0.4551 | -0.8856 | 0.0001 | 0. | 8000.5 |
| 8010.5 | 217.87 | 0.00 | 1.0070 | -0.7950 | -0.6181 | 0.0001 | 0.5976 | -0.7931 | 0.0001 | 0. | 8010.5 |
| 8020.5 | 227.56 | 0.00 | 1.0095 | -0.6812 | -0.7450 | 0.0001 | 0.7218 | -0.6784 | 0.0001 | 0. | 8020.5 |
| 8030.5 | 237.21 | 0.00 | 1.0117 | -0.5479 | -0.8505 | 0.0001 | 0.8244 | -0.5452 | 0.0000 | 0. | 8030.5 |
| 8040.5 | 246.82 | 0.01 | 1.0135 | -0.3989 | -0.9317 | 0.0001 | 0.9031 | -0.3972 | 0.0000 | 0. | 8040.5 |
| 8050.5 | 256.40 | 0.01 | 1.0150 | -0.2387 | -0.9865 | 0.0001 | 0.9558 | -0.2387 | 0.0000 | 0. | 8050.5 |
| 8060.5 | 265.95 | 0.01 | 1.0160 | -0.0717 | -1.0135 | 0.0001 | 0.9813 | -0.0741 | -0.0000 | 0. | 8060.5 |
| 8070.5 | 275.49 | 0.01 | 1.0166 | 0.0973 | -1.0119 | 0.0001 | 0.9792 | 0.0922 | -0.0000 | 0. | 8070.5 |
| 8080.5 | 285.03 | 0.00 | 1.0167 | 0.2636 | -0.9819 | 0.0001 | 0.9496 | 0.2558 | -0.0000 | 0. | 8080.5 |
| 8090.5 | 294.57 | 0.00 | 1.0163 | 0.4225 | -0.9243 | 0.0001 | 0.8933 | 0.4123 | -0.0000 | 0. | 8090.5 |
| 8100.5 | 304.11 | 0.00 | 1.0155 | 0.5695 | -0.8407 | 0.0001 | 0.8117 | 0.5574 | -0.0001 | 0. | 8100.5 |
| 8110.5 | 313.68 | 0.00 | 1.0142 | 0.7004 | -0.7334 | 0.0001 | 0.7070 | 0.6872 | -0.0001 | 0. | 8110.5 |
| 8120.5 | 323.28 | 0.00 | 1.0125 | 0.8116 | -0.6054 | 0.0000 | 0.5817 | 0.7981 | -0.0001 | 0. | 8120.5 |
| 8130.5 | 332.91 | 0.00 | 1.0104 | 0.8996 | -0.4601 | 0.0000 | 0.4391 | 0.8869 | -0.0001 | 0. | 8130.5 |
| 8140.5 | 342.59 | 0.00 | 1.0080 | 0.9618 | -0.3017 | 0.0000 | 0.2830 | 0.9508 | -0.0001 | 0. | 8140.5 |
| 8150.5 | 352.31 | 0.00 | 1.0054 | 0.9964 | -0.1346 | 0.0000 | 0.1175 | 0.9876 | -0.0001 | 0. | 8150.5 |
| 8160.5 | 2.08 | -0.00 | 1.0027 | 1.0020 | 0.0365 | -0.0000 | -0.0527 | 0.9959 | -0.0001 | 0. | 8160.5 |
| 8170.5 | 11.91 | -0.00 | 0.9998 | 0.9783 | 0.2064 | -0.0000 | -0.2228 | 0.9751 | -0.0001 | 0. | 8170.5 |
| 8180.5 | 21.80 | -0.00 | 0.9969 | 0.9256 | 0.3702 | -0.0000 | -0.3878 | 0.9251 | -0.0001 | 0. | 8180.5 |
| 8190.5 | 31.74 | -0.00 | 0.9942 | 0.8454 | 0.5230 | -0.0001 | -0.5425 | 0.8470 | -0.0001 | 0. | 8190.5 |
| 8200.5 | 41.74 | -0.00 | 0.9916 | 0.7399 | 0.6601 | -0.0001 | -0.6822 | 0.7427 | -0.0001 | 0. | 8200.5 |
| 8210.5 | 51.79 | -0.00 | 0.9892 | 0.6119 | 0.7772 | -0.0001 | -0.8022 | 0.6151 | -0.0000 | 0. | 8210.5 |
| 8220.5 | 61.88 | -0.00 | 0.9871 | 0.4652 | 0.8706 | -0.0001 | -0.8984 | 0.4678 | -0.0000 | 0. | 8220.5 |
| 8230.5 | 72.01 | -0.01 | 0.9855 | 0.3043 | 0.9373 | -0.0001 | -0.9676 | 0.3053 | -0.0000 | 0. | 8230.5 |
| 8240.5 | 82.17 | -0.01 | 0.9843 | 0.1340 | 0.9751 | -0.0001 | -1.0072 | 0.1327 | -0.0000 | 0. | 8240.5 |
| 8250.5 | 92.35 | -0.01 | 0.9835 | -0.0404 | 0.9827 | -0.0001 | -1.0156 | -0.0446 | 0.0000 | 0. | 8250.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | HELIOCENTRIC ECLIPTIC POSITION RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 8260.5 | 102.54 | -0.01 | 0.9833 | -0.2136 | 0.9598 | -0.0001 | -0.9926 | -0.2208 | 0.0000 | 0. | 8260.5 |
| 8270.5 | 112.74 | -0.00 | 0.9836 | -0.3801 | 0.9071 | -0.0001 | -0.9388 | -0.3901 | 0.0000 | 0. | 8270.5 |
| 8280.5 | 122.91 | -0.00 | 0.9843 | -0.5349 | 0.8263 | -0.0001 | -0.8559 | -0.5470 | 0.0001 | 0. | 8280.5 |
| 8290.5 | 133.07 | -0.00 | 0.9856 | -0.6731 | 0.7199 | -0.0001 | -0.7469 | -0.6866 | 0.0001 | 0. | 8290.5 |
| 8300.5 | 143.20 | -0.00 | 0.9873 | -0.7906 | 0.5914 | -0.0000 | -0.6154 | -0.8044 | 0.0001 | 0. | 8300.5 |
| 8310.5 | 153.29 | -0.00 | 0.9893 | -0.8838 | 0.4446 | -0.0000 | -0.4658 | -0.8970 | 0.0001 | 0. | 8310.5 |
| 8320.5 | 163.34 | -0.00 | 0.9917 | -0.9501 | 0.2844 | -0.0000 | -0.3031 | -0.9617 | 0.0001 | 0. | 8320.5 |
| 8330.5 | 173.33 | -0.00 | 0.9943 | -0.9876 | 0.1155 | -0.0000 | -0.1325 | -0.9969 | 0.0001 | 0. | 8330.5 |
| 8340.5 | 183.27 | 0.00 | 0.9971 | -0.9955 | -0.0569 | 0.0000 | 0.0407 | -1.0020 | 0.0001 | 0. | 8340.5 |
| 8350.5 | 193.15 | 0.00 | 1.0000 | -0.9738 | -0.2276 | 0.0000 | 0.2113 | -0.9774 | 0.0001 | 0. | 8350.5 |
| 8360.5 | 202.98 | 0.00 | 1.0029 | -0.9233 | -0.3915 | 0.0000 | 0.3741 | -0.9243 | 0.0001 | 0. | 8360.5 |
| 8370.5 | 212.75 | 0.00 | 1.0056 | -0.8457 | -0.5440 | 0.0001 | 0.5247 | -0.8447 | 0.0001 | 0. | 8370.5 |
| 8380.5 | 222.47 | 0.00 | 1.0082 | -0.7437 | -0.6808 | 0.0001 | 0.6590 | -0.7413 | 0.0001 | 0. | 8380.5 |
| 8390.5 | 232.14 | 0.00 | 1.0106 | -0.6202 | -0.7979 | 0.0001 | 0.7733 | -0.6173 | 0.0001 | 0. | 8390.5 |
| 8400.5 | 241.77 | 0.00 | 1.0126 | -0.4789 | -0.8922 | 0.0001 | 0.8649 | -0.4766 | 0.0000 | 0. | 8400.5 |
| 8410.5 | 251.37 | 0.01 | 1.0143 | -0.3241 | -0.9611 | 0.0001 | 0.9314 | -0.3231 | 0.0000 | 0. | 8410.5 |
| 8420.5 | 260.93 | 0.01 | 1.0155 | -0.1600 | -1.0028 | 0.0001 | 0.9713 | -0.1611 | 0.0000 | 0. | 8420.5 |
| 8430.5 | 270.48 | 0.01 | 1.0164 | 0.0085 | -1.0163 | 0.0001 | 0.9838 | 0.0049 | -0.0000 | 0. | 8430.5 |
| 8440.5 | 280.02 | 0.01 | 1.0167 | 0.1769 | -1.0012 | 0.0001 | 0.9686 | 0.1704 | -0.0000 | 0. | 8440.5 |
| 8450.5 | 289.55 | 0.00 | 1.0166 | 0.3402 | -0.9580 | 0.0001 | 0.9261 | 0.3312 | -0.0000 | 0. | 8450.5 |
| 8460.5 | 299.09 | 0.00 | 1.0160 | 0.4940 | -0.8878 | 0.0001 | 0.8576 | 0.4828 | -0.0001 | 0. | 8460.5 |
| 8470.5 | 308.65 | 0.00 | 1.0149 | 0.6339 | -0.7926 | 0.0001 | 0.7648 | 0.6211 | -0.0001 | 0. | 8470.5 |
| 8480.5 | 318.23 | 0.00 | 1.0134 | 0.7558 | -0.6751 | 0.0001 | 0.6499 | 0.7424 | -0.0001 | 0. | 8480.5 |
| 8490.5 | 327.84 | 0.00 | 1.0115 | 0.8564 | -0.5384 | 0.0000 | 0.5160 | 0.8432 | -0.0001 | 0. | 8490.5 |
| 8500.5 | 337.49 | 0.00 | 1.0093 | 0.9325 | -0.3863 | 0.0000 | 0.3665 | 0.9204 | -0.0001 | 0. | 8500.5 |
| 8510.5 | 347.19 | 0.00 | 1.0068 | 0.9818 | -0.2232 | 0.0000 | 0.2054 | 0.9717 | -0.0001 | 0. | 8510.5 |
| 8520.5 | 356.94 | -0.00 | 1.0041 | 1.0027 | -0.0536 | -0.0000 | 0.0371 | 0.9952 | -0.0001 | 0. | 8520.5 |
| 8530.5 | 6.74 | -0.00 | 1.0013 | 0.9944 | 0.1175 | -0.0000 | -0.1337 | 0.9897 | -0.0001 | 0. | 8530.5 |
| 8540.5 | 16.60 | -0.00 | 0.9984 | 0.9569 | 0.2852 | -0.0000 | -0.3020 | 0.9549 | -0.0001 | 0. | 8540.5 |
| 8550.5 | 26.51 | -0.00 | 0.9956 | 0.8909 | 0.4444 | -0.0001 | -0.4628 | 0.8914 | -0.0001 | 0. | 8550.5 |
| 8560.5 | 36.48 | -0.00 | 0.9929 | 0.7984 | 0.5903 | -0.0001 | -0.6110 | 0.8006 | -0.0001 | 0. | 8560.5 |
| 8570.5 | 46.50 | -0.00 | 0.9904 | 0.6817 | 0.7184 | -0.0001 | -0.7418 | 0.6849 | -0.0001 | 0. | 8570.5 |
| 8580.5 | 56.57 | -0.00 | 0.9882 | 0.5444 | 0.8247 | -0.0001 | -0.8510 | 0.5474 | -0.0000 | 0. | 8580.5 |
| 8590.5 | 66.68 | -0.01 | 0.9863 | 0.3904 | 0.9058 | -0.0001 | -0.9348 | 0.3923 | -0.0000 | 0. | 8590.5 |
| 8600.5 | 76.83 | -0.01 | 0.9849 | 0.2244 | 0.9589 | -0.0001 | -0.9902 | 0.2244 | -0.0000 | 0. | 8600.5 |
| 8610.5 | 87.00 | -0.01 | 0.9839 | 0.0515 | 0.9825 | -0.0001 | -1.0151 | 0.0488 | 0.0000 | 0. | 8610.5 |
| 8620.5 | 97.19 | -0.01 | 0.9833 | -0.1230 | 0.9756 | -0.0001 | -1.0086 | -0.1287 | 0.0000 | 0. | 8620.5 |
| 8630.5 | 107.38 | -0.01 | 0.9834 | -0.2937 | 0.9385 | -0.0001 | -0.9708 | -0.3023 | 0.0000 | 0. | 8630.5 |
| 8640.5 | 117.57 | -0.00 | 0.9839 | -0.4553 | 0.8722 | -0.0001 | -0.9029 | -0.4664 | 0.0001 | 0. | 8640.5 |
| 8650.5 | 127.74 | -0.00 | 0.9849 | -0.6028 | 0.7789 | -0.0001 | -0.8073 | -0.6157 | 0.0001 | 0. | 8650.5 |
| 8660.5 | 137.88 | -0.00 | 0.9863 | -0.7316 | 0.6615 | -0.0001 | -0.6871 | -0.7454 | 0.0001 | 0. | 8660.5 |
| 8670.5 | 147.99 | -0.00 | 0.9882 | -0.8380 | 0.5238 | -0.0000 | -0.5464 | -0.8516 | 0.0001 | 0. | 8670.5 |
| 8680.5 | 158.06 | -0.00 | 0.9904 | -0.9187 | 0.3700 | -0.0000 | -0.3900 | -0.9313 | 0.0001 | 0. | 8680.5 |
| 8690.5 | 168.08 | -0.00 | 0.9929 | -0.9715 | 0.2050 | -0.0000 | -0.2228 | -0.9821 | 0.0001 | 0. | 8690.5 |
| 8700.5 | 178.05 | 0.00 | 0.9956 | -0.9951 | 0.0338 | 0.0000 | -0.0503 | -1.0031 | 0.0001 | 0. | 8700.5 |
| 8710.5 | 187.97 | 0.00 | 0.9985 | -0.9888 | -0.1384 | 0.0000 | 0.1223 | -0.9940 | 0.0001 | 0. | 8710.5 |
| 8720.5 | 197.82 | 0.00 | 1.0014 | -0.9533 | -0.3065 | 0.0000 | 0.2898 | -0.9557 | 0.0001 | 0. | 8720.5 |
| 8730.5 | 207.62 | 0.00 | 1.0042 | -0.8897 | -0.4656 | 0.0001 | 0.4474 | -0.8897 | 0.0001 | 0. | 8730.5 |
| 8740.5 | 217.37 | 0.00 | 1.0069 | -0.8002 | -0.6111 | 0.0001 | 0.5907 | -0.7984 | 0.0001 | 0. | 8740.5 |
| 8750.5 | 227.07 | 0.00 | 1.0094 | -0.6875 | -0.7390 | 0.0001 | 0.7159 | -0.6848 | 0.0001 | 0. | 8750.5 |
| 8760.5 | 236.72 | 0.00 | 1.0116 | -0.5551 | -0.8456 | 0.0001 | 0.8197 | -0.5524 | 0.0000 | 0. | 8760.5 |
| 8770.5 | 246.33 | 0.01 | 1.0134 | -0.4069 | -0.9282 | 0.0001 | 0.8997 | -0.4051 | 0.0000 | 0. | 8770.5 |
| 8780.5 | 255.91 | 0.01 | 1.0149 | -0.2471 | -0.9844 | 0.0001 | 0.9537 | -0.2470 | 0.0000 | 0. | 8780.5 |
| 8790.5 | 265.47 | 0.01 | 1.0160 | -0.0803 | -1.0128 | 0.0001 | 0.9807 | -0.0826 | -0.0000 | 0. | 8790.5 |
| 8800.5 | 275.01 | 0.01 | 1.0166 | 0.0887 | -1.0127 | 0.0001 | 0.9800 | 0.0837 | -0.0000 | 0. | 8800.5 |
| 8810.5 | 284.54 | 0.01 | 1.0167 | 0.2552 | -0.9841 | 0.0001 | 0.9518 | 0.2476 | -0.0000 | 0. | 8810.5 |
| 8820.5 | 294.08 | 0.00 | 1.0163 | 0.4146 | -0.9279 | 0.0001 | 0.8968 | 0.4045 | -0.0000 | 0. | 8820.5 |
| 8830.5 | 303.62 | 0.00 | 1.0155 | 0.5623 | -0.8456 | 0.0001 | 0.8165 | 0.5503 | -0.0001 | 0. | 8830.5 |
| 8840.5 | 313.19 | 0.00 | 1.0143 | 0.6942 | -0.7395 | 0.0001 | 0.7128 | 0.6810 | -0.0001 | 0. | 8840.5 |
| 8850.5 | 322.79 | 0.00 | 1.0126 | 0.8064 | -0.6124 | 0.0001 | 0.5886 | 0.7930 | -0.0001 | 0. | 8850.5 |
| 8860.5 | 332.42 | 0.00 | 1.0105 | 0.8957 | -0.4679 | 0.0000 | 0.4468 | 0.8829 | -0.0001 | 0. | 8860.5 |
| 8870.5 | 342.09 | 0.00 | 1.0082 | 0.9593 | -0.3101 | 0.0000 | 0.2913 | 0.9481 | -0.0001 | 0. | 8870.5 |
| 8880.5 | 351.81 | 0.00 | 1.0056 | 0.9953 | -0.1433 | 0.0000 | 0.1262 | 0.9864 | -0.0001 | 0. | 8880.5 |
| 8890.5 | 1.58 | -0.00 | 1.0028 | 1.0024 | 0.0277 | -0.0000 | -0.0439 | 0.9962 | -0.0001 | 0. | 8890.5 |
| 8900.5 | 11.41 | -0.00 | 1.0000 | 0.9802 | 0.1978 | -0.0000 | -0.2142 | 0.9768 | -0.0001 | 0. | 8900.5 |
| 8910.5 | 21.29 | -0.00 | 0.9971 | 0.9290 | 0.3621 | -0.0000 | -0.3795 | 0.9283 | -0.0001 | 0. | 8910.5 |
| 8920.5 | 31.23 | -0.00 | 0.9943 | 0.8502 | 0.5156 | -0.0001 | -0.5349 | 0.8517 | -0.0001 | 0. | 8920.5 |
| 8930.5 | 41.23 | -0.00 | 0.9917 | 0.7458 | 0.6536 | -0.0001 | -0.6755 | 0.7487 | -0.0001 | 0. | 8930.5 |
| 8940.5 | 51.27 | -0.00 | 0.9893 | 0.6189 | 0.7718 | -0.0001 | -0.7966 | 0.6222 | -0.0001 | 0. | 8940.5 |
| 8950.5 | 61.36 | -0.01 | 0.9872 | 0.4731 | 0.8665 | -0.0001 | -0.8941 | 0.4758 | -0.0000 | 0. | 8950.5 |
| 8960.5 | 71.49 | -0.01 | 0.9856 | 0.3129 | 0.9346 | -0.0001 | -0.9647 | 0.3139 | -0.0000 | 0. | 8960.5 |
| 8970.5 | 81.65 | -0.01 | 0.9843 | 0.1429 | 0.9739 | -0.0001 | -1.0059 | 0.1417 | -0.0000 | 0. | 8970.5 |
| 8980.5 | 91.83 | -0.01 | 0.9836 | -0.0314 | 0.9831 | -0.0001 | -1.0160 | -0.0355 | 0.0000 | 0. | 8980.5 |
| 244 | | | | | | | | | | | 244 |

EARTH-MOON BARYCENTER

1993 - 1994
244 8990.5 - 244 9710.5

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 8990.5 | 102.02 | -0.01 | 0.9833 | -0.2048 | 0.9617 | -0.0001 | -0.9945 | -0.2118 | 0.0000 | 0. | 8990.5 |
| 9000.5 | 112.21 | -0.00 | 0.9835 | -0.3718 | 0.9105 | -0.0001 | -0.9423 | -0.3816 | 0.0000 | 0. | 9000.5 |
| 9010.5 | 122.39 | -0.00 | 0.9843 | -0.5273 | 0.8311 | -0.0001 | -0.8608 | -0.5393 | 0.0001 | 0. | 9010.5 |
| 9020.5 | 132.55 | -0.00 | 0.9855 | -0.6665 | 0.7260 | -0.0001 | -0.7531 | -0.6799 | 0.0001 | 0. | 9020.5 |
| 9030.5 | 142.68 | -0.00 | 0.9872 | -0.7851 | 0.5984 | -0.0001 | -0.6226 | -0.7990 | 0.0001 | 0. | 9030.5 |
| 9040.5 | 152.78 | -0.00 | 0.9892 | -0.8796 | 0.4525 | -0.0000 | -0.4739 | -0.8929 | 0.0001 | 0. | 9040.5 |
| 9050.5 | 162.82 | -0.00 | 0.9916 | -0.9474 | 0.2928 | -0.0000 | -0.3117 | -0.9591 | 0.0001 | 0. | 9050.5 |
| 9060.5 | 172.82 | -0.00 | 0.9942 | -0.9864 | 0.1243 | -0.0000 | -0.1413 | -0.9958 | 0.0001 | 0. | 9060.5 |
| 9070.5 | 182.76 | 0.00 | 0.9970 | -0.9958 | -0.0480 | 0.0000 | 0.0319 | -1.0025 | 0.0001 | 0. | 9070.5 |
| 9080.5 | 192.65 | 0.00 | 0.9998 | -0.9756 | -0.2189 | 0.0000 | 0.2027 | -0.9794 | 0.0001 | 0. | 9080.5 |
| 9090.5 | 202.48 | 0.00 | 1.0027 | -0.9265 | -0.3834 | 0.0000 | 0.3660 | -0.9277 | 0.0001 | 0. | 9090.5 |
| 9100.5 | 212.25 | 0.00 | 1.0055 | -0.8503 | -0.5366 | 0.0001 | 0.5174 | -0.8494 | 0.0001 | 0. | 9100.5 |
| 9110.5 | 221.97 | 0.00 | 1.0081 | -0.7495 | -0.6742 | 0.0001 | 0.6526 | -0.7471 | 0.0001 | 0. | 9110.5 |
| 9120.5 | 231.65 | 0.00 | 1.0104 | -0.6270 | -0.7924 | 0.0001 | 0.7680 | -0.6241 | 0.0001 | 0. | 9120.5 |
| 9130.5 | 241.28 | 0.01 | 1.0125 | -0.4865 | -0.8879 | 0.0001 | 0.8608 | -0.4841 | 0.0000 | 0. | 9130.5 |
| 9140.5 | 250.88 | 0.01 | 1.0142 | -0.3323 | -0.9582 | 0.0001 | 0.9286 | -0.3312 | 0.0000 | 0. | 9140.5 |
| 9150.5 | 260.44 | 0.01 | 1.0155 | -0.1686 | -1.0014 | 0.0001 | 0.9699 | -0.1696 | 0.0000 | 0. | 9150.5 |
| 9160.5 | 269.99 | 0.01 | 1.0163 | -0.0001 | -1.0163 | 0.0001 | 0.9838 | -0.0037 | -0.0000 | 0. | 9160.5 |
| 9170.5 | 279.53 | 0.01 | 1.0167 | 0.1683 | -1.0027 | 0.0001 | 0.9700 | 0.1620 | -0.0000 | 0. | 9170.5 |
| 9180.5 | 289.06 | 0.01 | 1.0166 | 0.3320 | -0.9608 | 0.0001 | 0.9290 | 0.3231 | -0.0000 | 0. | 9180.5 |
| 9190.5 | 298.60 | 0.00 | 1.0160 | 0.4864 | -0.8920 | 0.0001 | 0.8617 | 0.4753 | -0.0001 | 0. | 9190.5 |
| 9200.5 | 308.16 | 0.00 | 1.0150 | 0.6271 | -0.7981 | 0.0001 | 0.7701 | 0.6144 | -0.0001 | 0. | 9200.5 |
| 9210.5 | 317.74 | 0.00 | 1.0135 | 0.7501 | -0.6816 | 0.0001 | 0.6563 | 0.7366 | -0.0001 | 0. | 9210.5 |
| 9220.5 | 327.35 | 0.00 | 1.0116 | 0.8518 | -0.5458 | 0.0000 | 0.5233 | 0.8386 | -0.0001 | 0. | 9220.5 |
| 9230.5 | 337.00 | 0.00 | 1.0095 | 0.9292 | -0.3944 | 0.0000 | 0.3745 | 0.9171 | -0.0001 | 0. | 9230.5 |
| 9240.5 | 346.69 | 0.00 | 1.0070 | 0.9799 | -0.2318 | 0.0000 | 0.2139 | 0.9698 | -0.0001 | 0. | 9240.5 |
| 9250.5 | 356.44 | -0.00 | 1.0043 | 1.0023 | -0.0624 | -0.0000 | 0.0458 | 0.9947 | -0.0001 | 0. | 9250.5 |
| 9260.5 | 6.24 | -0.00 | 1.0015 | 0.9955 | 0.1088 | -0.0000 | -0.1250 | 0.9907 | -0.0001 | 0. | 9260.5 |
| 9270.5 | 16.09 | -0.00 | 0.9986 | 0.9595 | 0.2768 | -0.0000 | -0.2935 | 0.9574 | -0.0001 | 0. | 9270.5 |
| 9280.5 | 26.00 | -0.00 | 0.9958 | 0.8950 | 0.4365 | -0.0001 | -0.4548 | 0.8954 | -0.0001 | 0. | 9280.5 |
| 9290.5 | 35.97 | -0.00 | 0.9930 | 0.8037 | 0.5832 | -0.0001 | -0.6037 | 0.8059 | -0.0001 | 0. | 9290.5 |
| 9300.5 | 45.99 | -0.00 | 0.9905 | 0.6882 | 0.7124 | -0.0001 | -0.7356 | 0.6914 | -0.0001 | 0. | 9300.5 |
| 9310.5 | 56.05 | -0.01 | 0.9883 | 0.5519 | 0.8198 | -0.0001 | -0.8460 | 0.5550 | -0.0000 | 0. | 9310.5 |
| 9320.5 | 66.16 | -0.01 | 0.9864 | 0.3986 | 0.9023 | -0.0001 | -0.9312 | 0.4006 | -0.0000 | 0. | 9320.5 |
| 9330.5 | 76.31 | -0.01 | 0.9849 | 0.2331 | 0.9569 | -0.0001 | -0.9881 | 0.2332 | -0.0000 | 0. | 9330.5 |
| 9340.5 | 86.48 | -0.01 | 0.9839 | 0.0604 | 0.9820 | -0.0001 | -1.0146 | 0.0579 | 0.0000 | 0. | 9340.5 |
| 9350.5 | 96.66 | -0.01 | 0.9834 | -0.1141 | 0.9767 | -0.0001 | -1.0097 | -0.1196 | 0.0000 | 0. | 9350.5 |
| 9360.5 | 106.86 | -0.01 | 0.9833 | -0.2851 | 0.9411 | -0.0001 | -0.9735 | -0.2936 | 0.0000 | 0. | 9360.5 |
| 9370.5 | 117.04 | -0.00 | 0.9838 | -0.4473 | 0.8763 | -0.0001 | -0.9071 | -0.4583 | 0.0001 | 0. | 9370.5 |
| 9380.5 | 127.22 | -0.00 | 0.9848 | -0.5956 | 0.7843 | -0.0001 | -0.8128 | -0.6084 | 0.0001 | 0. | 9380.5 |
| 9390.5 | 137.36 | -0.00 | 0.9862 | -0.7255 | 0.6680 | -0.0001 | -0.6938 | -0.7393 | 0.0001 | 0. | 9390.5 |
| 9400.5 | 147.48 | -0.00 | 0.9881 | -0.8331 | 0.5313 | -0.0000 | -0.5541 | -0.8468 | 0.0001 | 0. | 9400.5 |
| 9410.5 | 157.55 | -0.00 | 0.9903 | -0.9152 | 0.3782 | -0.0000 | -0.3983 | -0.9279 | 0.0001 | 0. | 9410.5 |
| 9420.5 | 167.57 | -0.00 | 0.9928 | -0.9695 | 0.2137 | -0.0000 | -0.2316 | -0.9802 | 0.0001 | 0. | 9420.5 |
| 9430.5 | 177.54 | 0.00 | 0.9955 | -0.9946 | 0.0427 | 0.0000 | -0.0592 | -1.0028 | 0.0001 | 0. | 9430.5 |
| 9440.5 | 187.46 | 0.00 | 0.9983 | -0.9899 | -0.1296 | 0.0000 | 0.1135 | -0.9952 | 0.0001 | 0. | 9440.5 |
| 9450.5 | 197.32 | 0.00 | 1.0012 | -0.9558 | -0.2980 | 0.0000 | 0.2814 | -0.9583 | 0.0001 | 0. | 9450.5 |
| 9460.5 | 207.12 | 0.00 | 1.0040 | -0.8936 | -0.4577 | 0.0001 | 0.4396 | -0.8937 | 0.0001 | 0. | 9460.5 |
| 9470.5 | 216.87 | 0.00 | 1.0067 | -0.8054 | -0.6040 | 0.0001 | 0.5838 | -0.8036 | 0.0001 | 0. | 9470.5 |
| 9480.5 | 226.57 | 0.00 | 1.0092 | -0.6938 | -0.7329 | 0.0001 | 0.7100 | -0.6911 | 0.0001 | 0. | 9480.5 |
| 9490.5 | 236.22 | 0.01 | 1.0115 | -0.5623 | -0.8407 | 0.0001 | 0.8150 | -0.5596 | 0.0000 | 0. | 9490.5 |
| 9500.5 | 245.84 | 0.01 | 1.0134 | -0.4148 | -0.9246 | 0.0001 | 0.8962 | -0.4129 | 0.0000 | 0. | 9500.5 |
| 9510.5 | 255.42 | 0.01 | 1.0149 | -0.2555 | -0.9822 | 0.0001 | 0.9516 | -0.2553 | 0.0000 | 0. | 9510.5 |
| 9520.5 | 264.98 | 0.01 | 1.0159 | -0.0890 | -1.0120 | 0.0001 | 0.9800 | -0.0911 | -0.0000 | 0. | 9520.5 |
| 9530.5 | 274.52 | 0.01 | 1.0166 | 0.0801 | -1.0134 | 0.0001 | 0.9807 | 0.0752 | -0.0000 | 0. | 9530.5 |
| 9540.5 | 284.05 | 0.01 | 1.0167 | 0.2468 | -0.9863 | 0.0001 | 0.9539 | 0.2393 | -0.0000 | 0. | 9540.5 |
| 9550.5 | 293.59 | 0.01 | 1.0164 | 0.4067 | -0.9315 | 0.0001 | 0.9002 | 0.3967 | -0.0000 | 0. | 9550.5 |
| 9560.5 | 303.13 | 0.00 | 1.0156 | 0.5551 | -0.8504 | 0.0001 | 0.8212 | 0.5431 | -0.0001 | 0. | 9560.5 |
| 9570.5 | 312.70 | 0.00 | 1.0143 | 0.6879 | -0.7455 | 0.0001 | 0.7187 | 0.6747 | -0.0001 | 0. | 9570.5 |
| 9580.5 | 322.29 | 0.00 | 1.0127 | 0.8012 | -0.6194 | 0.0001 | 0.5954 | 0.7877 | -0.0001 | 0. | 9580.5 |
| 9590.5 | 331.92 | 0.00 | 1.0106 | 0.8917 | -0.4757 | 0.0000 | 0.4544 | 0.8789 | -0.0001 | 0. | 9590.5 |
| 9600.5 | 341.59 | 0.00 | 1.0083 | 0.9567 | -0.3184 | 0.0000 | 0.2995 | 0.9454 | -0.0001 | 0. | 9600.5 |
| 9610.5 | 351.31 | 0.00 | 1.0057 | 0.9942 | -0.1520 | 0.0000 | 0.1348 | 0.9851 | -0.0001 | 0. | 9610.5 |
| 9620.5 | 1.08 | -0.00 | 1.0030 | 1.0028 | 0.0189 | -0.0000 | -0.0352 | 0.9964 | -0.0001 | 0. | 9620.5 |
| 9630.5 | 10.90 | -0.00 | 1.0001 | 0.9821 | 0.1892 | -0.0000 | -0.2055 | 0.9785 | -0.0001 | 0. | 9630.5 |
| 9640.5 | 20.78 | -0.00 | 0.9972 | 0.9323 | 0.3539 | -0.0000 | -0.3712 | 0.9315 | -0.0001 | 0. | 9640.5 |
| 9650.5 | 30.72 | -0.00 | 0.9944 | 0.8549 | 0.5080 | -0.0001 | -0.5273 | 0.8562 | -0.0001 | 0. | 9650.5 |
| 9660.5 | 40.71 | -0.00 | 0.9918 | 0.7518 | 0.6469 | -0.0001 | -0.6687 | 0.7546 | -0.0001 | 0. | 9660.5 |
| 9670.5 | 50.76 | -0.00 | 0.9894 | 0.6259 | 0.7663 | -0.0001 | -0.7909 | 0.6292 | -0.0001 | 0. | 9670.5 |
| 9680.5 | 60.84 | -0.01 | 0.9873 | 0.4810 | 0.8622 | -0.0001 | -0.8898 | 0.4837 | -0.0000 | 0. | 9680.5 |
| 9690.5 | 70.97 | -0.01 | 0.9856 | 0.3214 | 0.9318 | -0.0001 | -0.9618 | 0.3225 | -0.0000 | 0. | 9690.5 |
| 9700.5 | 81.13 | -0.01 | 0.9844 | 0.1518 | 0.9726 | -0.0001 | -1.0045 | 0.1507 | -0.0000 | 0. | 9700.5 |
| 9710.5 | 91.31 | -0.01 | 0.9836 | -0.0225 | 0.9833 | -0.0001 | -1.0162 | -0.0264 | 0.0000 | 0. | 9710.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 9720.5 | 101.50 | -0.01 | 0.9833 | -0.1960 | 0.9636 | -0.0001 | -0.9964 | -0.2029 | 0.0000 | 0. | 9720.5 |
| 9730.5 | 111.69 | -0.01 | 0.9835 | -0.3635 | 0.9139 | -0.0001 | -0.9457 | -0.3732 | 0.0000 | 0. | 9730.5 |
| 9740.5 | 121.87 | -0.00 | 0.9842 | -0.5197 | 0.8358 | -0.0001 | -0.8657 | -0.5316 | 0.0001 | 0. | 9740.5 |
| 9750.5 | 132.03 | -0.00 | 0.9854 | -0.6598 | 0.7319 | -0.0001 | -0.7592 | -0.6732 | 0.0001 | 0. | 9750.5 |
| 9760.5 | 142.16 | -0.00 | 0.9871 | -0.7796 | 0.6055 | -0.0001 | -0.6298 | -0.7934 | 0.0001 | 0. | 9760.5 |
| 9770.5 | 152.26 | -0.00 | 0.9891 | -0.8754 | 0.4604 | -0.0000 | -0.4819 | -0.8887 | 0.0001 | 0. | 9770.5 |
| 9780.5 | 162.31 | -0.00 | 0.9915 | -0.9446 | 0.3013 | -0.0000 | -0.3203 | -0.9564 | 0.0001 | 0. | 9780.5 |
| 9790.5 | 172.31 | -0.00 | 0.9941 | -0.9851 | 0.1331 | -0.0000 | -0.1502 | -0.9947 | 0.0001 | 0. | 9790.5 |
| 9800.5 | 182.25 | 0.00 | 0.9968 | -0.9961 | -0.0392 | 0.0000 | 0.0230 | -1.0029 | 0.0001 | 0. | 9800.5 |
| 9810.5 | 192.14 | 0.00 | 0.9997 | -0.9773 | -0.2103 | 0.0000 | 0.1940 | -0.9813 | 0.0001 | 0. | 9810.5 |
| 9820.5 | 201.97 | 0.00 | 1.0026 | -0.9297 | -0.3752 | 0.0000 | 0.3579 | -0.9310 | 0.0001 | 0. | 9820.5 |
| 9830.5 | 211.75 | 0.00 | 1.0053 | -0.8549 | -0.5291 | 0.0001 | 0.5100 | -0.8540 | 0.0001 | 0. | 9830.5 |
| 9840.5 | 221.48 | 0.00 | 1.0080 | -0.7552 | -0.6676 | 0.0001 | 0.6461 | -0.7529 | 0.0001 | 0. | 9840.5 |
| 9850.5 | 231.15 | 0.00 | 1.0103 | -0.6337 | -0.7869 | 0.0001 | 0.7626 | -0.6309 | 0.0001 | 0. | 9850.5 |
| 9860.5 | 240.79 | 0.01 | 1.0124 | -0.4941 | -0.8836 | 0.0001 | 0.8566 | -0.4917 | 0.0000 | 0. | 9860.5 |
| 9870.5 | 250.39 | 0.01 | 1.0141 | -0.3404 | -0.9553 | 0.0001 | 0.9258 | -0.3393 | 0.0000 | 0. | 9870.5 |
| 9880.5 | 259.95 | 0.01 | 1.0154 | -0.1771 | -0.9999 | 0.0001 | 0.9685 | -0.1780 | 0.0000 | 0. | 9880.5 |
| 9890.5 | 269.50 | 0.01 | 1.0163 | -0.0088 | -1.0162 | 0.0001 | 0.9838 | -0.0122 | -0.0000 | 0. | 9890.5 |
| 9900.5 | 279.04 | 0.01 | 1.0167 | 0.1597 | -1.0041 | 0.0001 | 0.9714 | 0.1536 | -0.0000 | 0. | 9900.5 |
| 9910.5 | 288.57 | 0.01 | 1.0166 | 0.3238 | -0.9637 | 0.0001 | 0.9317 | 0.3150 | -0.0000 | 0. | 9910.5 |
| 9920.5 | 298.11 | 0.00 | 1.0161 | 0.4788 | -0.8962 | 0.0001 | 0.8658 | 0.4678 | -0.0001 | 0. | 9920.5 |
| 9930.5 | 307.67 | 0.00 | 1.0150 | 0.6203 | -0.8035 | 0.0001 | 0.7753 | 0.6076 | -0.0001 | 0. | 9930.5 |
| 9940.5 | 317.25 | 0.00 | 1.0136 | 0.7443 | -0.6881 | 0.0001 | 0.6626 | 0.7308 | -0.0001 | 0. | 9940.5 |
| 9950.5 | 326.86 | 0.00 | 1.0118 | 0.8471 | -0.5532 | 0.0000 | 0.5305 | 0.8339 | -0.0001 | 0. | 9950.5 |
| 9960.5 | 336.50 | 0.00 | 1.0096 | 0.9259 | -0.4025 | 0.0000 | 0.3824 | 0.9137 | -0.0001 | 0. | 9960.5 |
| 9970.5 | 346.19 | 0.00 | 1.0071 | 0.9780 | -0.2403 | 0.0000 | 0.2223 | 0.9677 | -0.0001 | 0. | 9970.5 |
| 9980.5 | 355.94 | -0.00 | 1.0044 | 1.0019 | -0.0712 | -0.0000 | 0.0545 | 0.9941 | -0.0001 | 0. | 9980.5 |
| 9990.5 | 5.73 | -0.00 | 1.0016 | 0.9966 | 0.1000 | -0.0000 | -0.1162 | 0.9916 | -0.0001 | 0. | 9990.5 |
| 0000.5 | 15.58 | -0.00 | 0.9987 | 0.9620 | 0.2683 | -0.0000 | -0.2850 | 0.9598 | -0.0001 | 0. | 0000.5 |
| 0010.5 | 25.49 | -0.00 | 0.9959 | 0.8990 | 0.4286 | -0.0001 | -0.4468 | 0.8992 | -0.0001 | 0. | 0010.5 |
| 0020.5 | 35.45 | -0.00 | 0.9932 | 0.8090 | 0.5761 | -0.0001 | -0.5965 | 0.8112 | -0.0001 | 0. | 0020.5 |
| 0030.5 | 45.47 | -0.00 | 0.9906 | 0.6947 | 0.7062 | -0.0001 | -0.7293 | 0.6978 | -0.0001 | 0. | 0030.5 |
| 0040.5 | 55.54 | -0.01 | 0.9884 | 0.5593 | 0.8149 | -0.0001 | -0.8409 | 0.5624 | -0.0000 | 0. | 0040.5 |
| 0050.5 | 65.64 | -0.01 | 0.9865 | 0.4068 | 0.8987 | -0.0001 | -0.9275 | 0.4089 | -0.0000 | 0. | 0050.5 |
| 0060.5 | 75.79 | -0.01 | 0.9850 | 0.2418 | 0.9548 | -0.0001 | -0.9859 | 0.2420 | -0.0000 | 0. | 0060.5 |
| 0070.5 | 85.96 | -0.01 | 0.9839 | 0.0694 | 0.9815 | -0.0001 | -1.0140 | 0.0670 | 0.0000 | 0. | 0070.5 |
| 0080.5 | 96.14 | -0.01 | 0.9834 | -0.1052 | 0.9777 | -0.0001 | -1.0107 | -0.1105 | 0.0000 | 0. | 0080.5 |
| 0090.5 | 106.33 | -0.01 | 0.9833 | -0.2765 | 0.9436 | -0.0001 | -0.9761 | -0.2848 | 0.0000 | 0. | 0090.5 |
| 0100.5 | 116.52 | -0.01 | 0.9838 | -0.4393 | 0.8803 | -0.0001 | -0.9112 | -0.4501 | 0.0001 | 0. | 0100.5 |
| 0110.5 | 126.69 | -0.00 | 0.9847 | -0.5884 | 0.7896 | -0.0001 | -0.8183 | -0.6012 | 0.0001 | 0. | 0110.5 |
| 0120.5 | 136.84 | -0.00 | 0.9862 | -0.7194 | 0.6745 | -0.0001 | -0.7004 | -0.7331 | 0.0001 | 0. | 0120.5 |
| 0130.5 | 146.96 | -0.00 | 0.9880 | -0.8282 | 0.5387 | -0.0000 | -0.5617 | -0.8419 | 0.0001 | 0. | 0130.5 |
| 0140.5 | 157.03 | -0.00 | 0.9902 | -0.9117 | 0.3864 | -0.0000 | -0.4066 | -0.9244 | 0.0001 | 0. | 0140.5 |
| 0150.5 | 167.06 | -0.00 | 0.9927 | -0.9675 | 0.2223 | -0.0000 | -0.2403 | -0.9783 | 0.0001 | 0. | 0150.5 |
| 0160.5 | 177.03 | 0.00 | 0.9954 | -0.9940 | 0.0515 | -0.0000 | -0.0681 | -1.0023 | 0.0001 | 0. | 0160.5 |
| 0170.5 | 186.95 | 0.00 | 0.9982 | -0.9908 | -0.1208 | 0.0000 | 0.1047 | -0.9963 | 0.0001 | 0. | 0170.5 |
| 0180.5 | 196.81 | 0.00 | 1.0011 | -0.9583 | -0.2896 | 0.0000 | 0.2730 | -0.9609 | 0.0001 | 0. | 0180.5 |
| 0190.5 | 206.62 | 0.00 | 1.0039 | -0.8975 | -0.4498 | 0.0001 | 0.4318 | -0.8977 | 0.0001 | 0. | 0190.5 |
| 0200.5 | 216.37 | 0.00 | 1.0066 | -0.8105 | -0.5969 | 0.0001 | 0.5768 | -0.8088 | 0.0001 | 0. | 0200.5 |
| 0210.5 | 226.07 | 0.00 | 1.0091 | -0.7001 | -0.7268 | 0.0001 | 0.7040 | -0.6974 | 0.0001 | 0. | 0210.5 |
| 0220.5 | 235.73 | 0.01 | 1.0114 | -0.5695 | -0.8358 | 0.0001 | 0.8102 | -0.5667 | 0.0001 | 0. | 0220.5 |
| 0230.5 | 245.34 | 0.01 | 1.0133 | -0.4227 | -0.9209 | 0.0001 | 0.8926 | -0.4208 | 0.0000 | 0. | 0230.5 |
| 0240.5 | 254.93 | 0.01 | 1.0148 | -0.2639 | -0.9799 | 0.0001 | 0.9494 | -0.2636 | 0.0000 | 0. | 0240.5 |
| 0250.5 | 264.49 | 0.01 | 1.0159 | -0.0976 | -1.0112 | 0.0001 | 0.9792 | -0.0996 | 0.0000 | 0. | 0250.5 |
| 0260.5 | 274.03 | 0.01 | 1.0165 | 0.0714 | -1.0140 | 0.0001 | 0.9813 | 0.0667 | -0.0000 | 0. | 0260.5 |
| 0270.5 | 283.56 | 0.01 | 1.0167 | 0.2384 | -0.9884 | 0.0001 | 0.9559 | 0.2310 | -0.0000 | 0. | 0270.5 |
| 0280.5 | 293.10 | 0.01 | 1.0164 | 0.3987 | -0.9349 | 0.0001 | 0.9036 | 0.3888 | -0.0001 | 0. | 0280.5 |
| 0290.5 | 302.64 | 0.00 | 1.0156 | 0.5478 | -0.8552 | 0.0001 | 0.8258 | 0.5360 | -0.0001 | 0. | 0290.5 |
| 0300.5 | 312.21 | 0.00 | 1.0144 | 0.6815 | -0.7514 | 0.0001 | 0.7245 | 0.6684 | -0.0001 | 0. | 0300.5 |
| 0310.5 | 321.80 | 0.00 | 1.0128 | 0.7959 | -0.6263 | 0.0001 | 0.6022 | 0.7824 | -0.0001 | 0. | 0310.5 |
| 0320.5 | 331.43 | 0.00 | 1.0108 | 0.8877 | -0.4834 | 0.0000 | 0.4620 | 0.8748 | -0.0001 | 0. | 0320.5 |
| 0330.5 | 341.09 | 0.00 | 1.0084 | 0.9540 | -0.3267 | 0.0000 | 0.3077 | 0.9426 | -0.0001 | 0. | 0330.5 |
| 0340.5 | 350.81 | 0.00 | 1.0059 | 0.9929 | -0.1607 | 0.0000 | 0.1434 | 0.9838 | -0.0001 | 0. | 0340.5 |
| 0350.5 | 0.58 | -0.00 | 1.0031 | 1.0031 | 0.0101 | -0.0000 | -0.0264 | 0.9965 | -0.0001 | 0. | 0350.5 |
| 0360.5 | 10.40 | -0.00 | 1.0003 | 0.9838 | 0.1805 | -0.0000 | -0.1968 | 0.9802 | -0.0001 | 0. | 0360.5 |
| 0370.5 | 20.28 | -0.00 | 0.9974 | 0.9356 | 0.3456 | -0.0000 | -0.3629 | 0.9346 | -0.0001 | 0. | 0370.5 |
| 0380.5 | 30.21 | -0.00 | 0.9946 | 0.8595 | 0.5005 | -0.0001 | -0.5196 | 0.8608 | -0.0001 | 0. | 0380.5 |
| 0390.5 | 40.20 | -0.00 | 0.9919 | 0.7577 | 0.6403 | -0.0001 | -0.6619 | 0.7604 | -0.0001 | 0. | 0390.5 |
| 0400.5 | 50.24 | -0.01 | 0.9895 | 0.6329 | 0.7607 | -0.0001 | -0.7852 | 0.6361 | -0.0001 | 0. | 0400.5 |
| 0410.5 | 60.33 | -0.01 | 0.9874 | 0.4888 | 0.8579 | -0.0001 | -0.8853 | 0.4916 | -0.0000 | 0. | 0410.5 |
| 0420.5 | 70.45 | -0.01 | 0.9857 | 0.3298 | 0.9289 | -0.0001 | -0.9588 | 0.3311 | -0.0000 | 0. | 0420.5 |
| 0430.5 | 80.61 | -0.01 | 0.9844 | 0.1607 | 0.9712 | -0.0001 | -1.0031 | 0.1597 | -0.0000 | 0. | 0430.5 |
| 0440.5 | 90.79 | -0.01 | 0.9836 | -0.0135 | 0.9835 | -0.0001 | -1.0164 | -0.0173 | 0.0000 | 0. | 0440.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 0450.5 | 100.98 | -0.01 | 0.9833 | -0.1872 | 0.9653 | -0.0001 | -0.9982 | -0.1940 | 0.0000 | 0. | 0450.5 |
| 0460.5 | 111.17 | -0.01 | 0.9835 | -0.3551 | 0.9171 | -0.0001 | -0.9490 | -0.3647 | 0.0000 | 0. | 0460.5 |
| 0470.5 | 121.35 | -0.00 | 0.9842 | -0.5120 | 0.8405 | -0.0001 | -0.8705 | -0.5239 | 0.0001 | 0. | 0470.5 |
| 0480.5 | 131.51 | -0.00 | 0.9854 | -0.6531 | 0.7379 | -0.0001 | -0.7653 | -0.6664 | 0.0001 | 0. | 0480.5 |
| 0490.5 | 141.65 | -0.00 | 0.9870 | -0.7740 | 0.6124 | -0.0001 | -0.6369 | -0.7878 | 0.0001 | 0. | 0490.5 |
| 0500.5 | 151.74 | -0.00 | 0.9890 | -0.8711 | 0.4682 | -0.0000 | -0.4898 | -0.8845 | 0.0001 | 0. | 0500.5 |
| 0510.5 | 161.79 | -0.00 | 0.9913 | -0.9417 | 0.3097 | -0.0000 | -0.3288 | -0.9536 | 0.0001 | 0. | 0510.5 |
| 0520.5 | 171.80 | -0.00 | 0.9939 | -0.9838 | 0.1418 | -0.0000 | -0.1590 | -0.9934 | 0.0001 | 0. | 0520.5 |
| 0530.5 | 181.74 | 0.00 | 0.9967 | -0.9962 | -0.0303 | 0.0000 | 0.0141 | -1.0032 | 0.0001 | 0. | 0530.5 |
| 0540.5 | 191.64 | 0.00 | 0.9995 | -0.9790 | -0.2016 | 0.0000 | 0.1854 | -0.9831 | 0.0001 | 0. | 0540.5 |
| 0550.5 | 201.47 | 0.00 | 1.0024 | -0.9328 | -0.3669 | 0.0000 | 0.3498 | -0.9343 | 0.0001 | 0. | 0550.5 |
| 0560.5 | 211.25 | 0.00 | 1.0052 | -0.8593 | -0.5215 | 0.0001 | 0.5025 | -0.8586 | 0.0001 | 0. | 0560.5 |
| 0570.5 | 220.98 | 0.00 | 1.0078 | -0.7608 | -0.6609 | 0.0001 | 0.6395 | -0.7586 | 0.0001 | 0. | 0570.5 |
| 0580.5 | 230.66 | 0.01 | 1.0102 | -0.6404 | -0.7813 | 0.0001 | 0.7572 | -0.6376 | 0.0001 | 0. | 0580.5 |
| 0590.5 | 240.29 | 0.01 | 1.0123 | -0.5016 | -0.8793 | 0.0001 | 0.8524 | -0.4992 | 0.0000 | 0. | 0590.5 |
| 0600.5 | 249.89 | 0.01 | 1.0140 | -0.3486 | -0.9522 | 0.0001 | 0.9229 | -0.3473 | 0.0000 | 0. | 0600.5 |
| 0610.5 | 259.46 | 0.01 | 1.0154 | -0.1857 | -0.9982 | 0.0001 | 0.9669 | -0.1864 | 0.0000 | 0. | 0610.5 |
| 0620.5 | 269.01 | 0.01 | 1.0163 | -0.0175 | -1.0161 | 0.0001 | 0.9837 | -0.0207 | -0.0000 | 0. | 0620.5 |
| 0630.5 | 278.55 | 0.01 | 1.0167 | 0.1512 | -1.0054 | 0.0001 | 0.9727 | 0.1452 | -0.0000 | 0. | 0630.5 |
| 0640.5 | 288.09 | 0.01 | 1.0166 | 0.3156 | -0.9664 | 0.0001 | 0.9344 | 0.3069 | -0.0000 | 0. | 0640.5 |
| 0650.5 | 297.62 | 0.01 | 1.0161 | 0.4711 | -0.9003 | 0.0001 | 0.8698 | 0.4602 | -0.0001 | 0. | 0650.5 |
| 0660.5 | 307.18 | 0.00 | 1.0151 | 0.6134 | -0.8088 | 0.0001 | 0.7805 | 0.6008 | -0.0001 | 0. | 0660.5 |
| 0670.5 | 316.75 | 0.00 | 1.0137 | 0.7384 | -0.6945 | 0.0001 | 0.6689 | 0.7250 | -0.0001 | 0. | 0670.5 |
| 0680.5 | 326.36 | 0.00 | 1.0119 | 0.8424 | -0.5605 | 0.0001 | 0.5377 | 0.8291 | -0.0001 | 0. | 0680.5 |
| 0690.5 | 336.01 | 0.00 | 1.0097 | 0.9225 | -0.4106 | 0.0000 | 0.3903 | 0.9102 | -0.0001 | 0. | 0690.5 |
| 0700.5 | 345.70 | 0.00 | 1.0072 | 0.9760 | -0.2488 | 0.0000 | 0.2308 | 0.9656 | -0.0001 | 0. | 0700.5 |
| 0710.5 | 355.44 | -0.00 | 1.0046 | 1.0014 | -0.0799 | -0.0000 | 0.0633 | 0.9934 | -0.0001 | 0. | 0710.5 |
| 0720.5 | 5.23 | -0.00 | 1.0018 | 0.9976 | 0.0913 | -0.0000 | -0.1075 | 0.9924 | -0.0001 | 0. | 0720.5 |
| 0730.5 | 15.08 | -0.00 | 0.9989 | 0.9645 | 0.2598 | -0.0000 | -0.2765 | 0.9622 | -0.0001 | 0. | 0730.5 |
| 0740.5 | 24.98 | -0.00 | 0.9960 | 0.9029 | 0.4207 | -0.0001 | -0.4387 | 0.9030 | -0.0001 | 0. | 0740.5 |
| 0750.5 | 34.94 | -0.00 | 0.9933 | 0.8142 | 0.5689 | -0.0001 | -0.5892 | 0.8163 | -0.0001 | 0. | 0750.5 |
| 0760.5 | 44.96 | -0.00 | 0.9908 | 0.7011 | 0.7000 | -0.0001 | -0.7230 | 0.7042 | -0.0001 | 0. | 0760.5 |
| 0770.5 | 55.02 | -0.01 | 0.9885 | 0.5667 | 0.8099 | -0.0001 | -0.8358 | 0.5698 | -0.0001 | 0. | 0770.5 |
| 0780.5 | 65.12 | -0.01 | 0.9866 | 0.4150 | 0.8950 | -0.0001 | -0.9237 | 0.4172 | -0.0000 | 0. | 0780.5 |
| 0790.5 | 75.27 | -0.01 | 0.9851 | 0.2505 | 0.9527 | -0.0001 | -0.9836 | 0.2508 | -0.0000 | 0. | 0790.5 |
| 0800.5 | 85.43 | -0.01 | 0.9840 | 0.0783 | 0.9809 | -0.0001 | -1.0133 | 0.0761 | 0.0000 | 0. | 0800.5 |
| 0810.5 | 95.62 | -0.01 | 0.9834 | -0.0963 | 0.9787 | -0.0001 | -1.0117 | -0.1015 | 0.0000 | 0. | 0810.5 |
| 0820.5 | 105.81 | -0.01 | 0.9833 | -0.2679 | 0.9461 | -0.0001 | -0.9786 | -0.2760 | 0.0000 | 0. | 0820.5 |
| 0830.5 | 116.00 | -0.01 | 0.9838 | -0.4312 | 0.8842 | -0.0001 | -0.9153 | -0.4420 | 0.0001 | 0. | 0830.5 |
| 0840.5 | 126.17 | -0.00 | 0.9847 | -0.5812 | 0.7949 | -0.0001 | -0.8237 | -0.5938 | 0.0001 | 0. | 0840.5 |
| 0850.5 | 136.32 | -0.00 | 0.9861 | -0.7132 | 0.6810 | -0.0001 | -0.7070 | -0.7269 | 0.0001 | 0. | 0850.5 |
| 0860.5 | 146.44 | -0.00 | 0.9879 | -0.8232 | 0.5461 | -0.0001 | -0.5692 | -0.8370 | 0.0001 | 0. | 0860.5 |
| 0870.5 | 156.52 | -0.00 | 0.9901 | -0.9081 | 0.3945 | -0.0000 | -0.4149 | -0.9208 | 0.0001 | 0. | 0870.5 |
| 0880.5 | 166.55 | -0.00 | 0.9925 | -0.9653 | 0.2309 | -0.0000 | -0.2490 | -0.9762 | 0.0001 | 0. | 0880.5 |
| 0890.5 | 176.52 | 0.00 | 0.9952 | -0.9934 | 0.0604 | 0.0000 | -0.0770 | -1.0018 | 0.0001 | 0. | 0890.5 |
| 0900.5 | 186.44 | 0.00 | 0.9980 | -0.9917 | -0.1120 | 0.0000 | 0.0959 | -0.9974 | 0.0001 | 0. | 0900.5 |
| 0910.5 | 196.31 | 0.00 | 1.0009 | -0.9606 | -0.2811 | 0.0000 | 0.2645 | -0.9634 | 0.0001 | 0. | 0910.5 |
| 0920.5 | 206.12 | 0.00 | 1.0037 | -0.9013 | -0.4419 | 0.0001 | 0.4240 | -0.9016 | 0.0001 | 0. | 0920.5 |
| 0930.5 | 215.87 | 0.00 | 1.0065 | -0.8156 | -0.5898 | 0.0001 | 0.5697 | -0.8140 | 0.0001 | 0. | 0930.5 |
| 0940.5 | 225.58 | 0.00 | 1.0090 | -0.7062 | -0.7206 | 0.0001 | 0.6980 | -0.7036 | 0.0001 | 0. | 0940.5 |
| 0950.5 | 235.23 | 0.01 | 1.0112 | -0.5766 | -0.8307 | 0.0001 | 0.8053 | -0.5738 | 0.0001 | 0. | 0950.5 |
| 0960.5 | 244.85 | 0.01 | 1.0132 | -0.4306 | -0.9171 | 0.0001 | 0.8890 | -0.4286 | 0.0000 | 0. | 0960.5 |
| 0970.5 | 254.44 | 0.01 | 1.0147 | -0.2722 | -0.9775 | 0.0001 | 0.9471 | -0.2719 | 0.0000 | 0. | 0970.5 |
| 0980.5 | 264.00 | 0.01 | 1.0158 | -0.1062 | -1.0103 | 0.0001 | 0.9783 | -0.1081 | 0.0000 | 0. | 0980.5 |
| 0990.5 | 273.54 | 0.01 | 1.0165 | 0.0628 | -1.0146 | 0.0001 | 0.9819 | 0.0582 | -0.0000 | 0. | 0990.5 |
| 1000.5 | 283.07 | 0.01 | 1.0167 | 0.2300 | -0.9904 | 0.0001 | 0.9579 | 0.2227 | -0.0000 | 0. | 1000.5 |
| 1010.5 | 292.61 | 0.01 | 1.0164 | 0.3908 | -0.9383 | 0.0001 | 0.9069 | 0.3810 | -0.0001 | 0. | 1010.5 |
| 1020.5 | 302.15 | 0.01 | 1.0157 | 0.5405 | -0.8599 | 0.0001 | 0.8304 | 0.5287 | -0.0001 | 0. | 1020.5 |
| 1030.5 | 311.72 | 0.00 | 1.0145 | 0.6751 | -0.7572 | 0.0001 | 0.7302 | 0.6620 | -0.0001 | 0. | 1030.5 |
| 1040.5 | 321.31 | 0.00 | 1.0129 | 0.7906 | -0.6332 | 0.0001 | 0.6089 | 0.7771 | -0.0001 | 0. | 1040.5 |
| 1050.5 | 330.93 | 0.00 | 1.0109 | 0.8835 | -0.4911 | 0.0000 | 0.4696 | 0.8706 | -0.0001 | 0. | 1050.5 |
| 1060.5 | 340.60 | 0.00 | 1.0086 | 0.9513 | -0.3350 | 0.0000 | 0.3159 | 0.9398 | -0.0001 | 0. | 1060.5 |
| 1070.5 | 350.31 | 0.00 | 1.0060 | 0.9916 | -0.1693 | 0.0000 | 0.1520 | 0.9823 | -0.0001 | 0. | 1070.5 |
| 1080.5 | 0.07 | -0.00 | 1.0033 | 1.0033 | 0.0013 | -0.0000 | -0.0176 | 0.9966 | -0.0001 | 0. | 1080.5 |
| 1090.5 | 9.89 | -0.00 | 1.0004 | 0.9855 | 0.1719 | -0.0000 | -0.1882 | 0.9817 | -0.0001 | 0. | 1090.5 |
| 1100.5 | 19.77 | -0.00 | 0.9975 | 0.9388 | 0.3374 | -0.0000 | -0.3546 | 0.9377 | -0.0001 | 0. | 1100.5 |
| 1110.5 | 29.70 | -0.00 | 0.9947 | 0.8641 | 0.4928 | -0.0001 | -0.5119 | 0.8652 | -0.0001 | 0. | 1110.5 |
| 1120.5 | 39.69 | -0.00 | 0.9921 | 0.7635 | 0.6335 | -0.0001 | -0.6550 | 0.7661 | -0.0001 | 0. | 1120.5 |
| 1130.5 | 49.72 | -0.01 | 0.9897 | 0.6398 | 0.7550 | -0.0001 | -0.7794 | 0.6430 | -0.0001 | 0. | 1130.5 |
| 1140.5 | 59.81 | -0.01 | 0.9875 | 0.4966 | 0.8536 | -0.0001 | -0.8808 | 0.4994 | -0.0000 | 0. | 1140.5 |
| 1150.5 | 69.93 | -0.01 | 0.9858 | 0.3383 | 0.9259 | -0.0001 | -0.9557 | 0.3397 | -0.0000 | 0. | 1150.5 |
| 1160.5 | 80.09 | -0.01 | 0.9845 | 0.1695 | 0.9698 | -0.0001 | -1.0015 | 0.1687 | -0.0000 | 0. | 1160.5 |
| 1170.5 | 90.26 | -0.01 | 0.9836 | -0.0045 | 0.9836 | -0.0001 | -1.0165 | -0.0081 | 0.0000 | 0. | 1170.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 1180.5 | 100.45 | -0.01 | 0.9833 | -0.1784 | 0.9670 | -0.0001 | -0.9999 | -0.1850 | 0.0000 | 0. | 1180.5 |
| 1190.5 | 110.64 | -0.01 | 0.9835 | -0.3467 | 0.9203 | -0.0001 | -0.9523 | -0.3562 | 0.0001 | 0. | 1190.5 |
| 1200.5 | 120.83 | -0.01 | 0.9841 | -0.5043 | 0.8451 | -0.0001 | -0.8752 | -0.5161 | 0.0001 | 0. | 1200.5 |
| 1210.5 | 130.99 | -0.00 | 0.9853 | -0.6463 | 0.7437 | -0.0001 | -0.7712 | -0.6596 | 0.0001 | 0. | 1210.5 |
| 1220.5 | 141.13 | -0.00 | 0.9869 | -0.7683 | 0.6194 | -0.0001 | -0.6440 | -0.7822 | 0.0001 | 0. | 1220.5 |
| 1230.5 | 151.23 | -0.00 | 0.9889 | -0.8668 | 0.4760 | -0.0000 | -0.4978 | -0.8802 | 0.0001 | 0. | 1230.5 |
| 1240.5 | 161.28 | -0.00 | 0.9912 | -0.9388 | 0.3181 | -0.0000 | -0.3373 | -0.9508 | 0.0001 | 0. | 1240.5 |
| 1250.5 | 171.28 | -0.00 | 0.9938 | -0.9823 | 0.1506 | -0.0000 | -0.1679 | -0.9921 | 0.0001 | 0. | 1250.5 |
| 1260.5 | 181.24 | 0.00 | 0.9965 | -0.9963 | -0.0215 | 0.0000 | 0.0052 | -1.0035 | 0.0001 | 0. | 1260.5 |
| 1270.5 | 191.13 | 0.00 | 0.9994 | -0.9806 | -0.1929 | 0.0000 | 0.1767 | -0.9849 | 0.0001 | 0. | 1270.5 |
| 1280.5 | 200.97 | 0.00 | 1.0023 | -0.9359 | -0.3587 | 0.0001 | 0.3416 | -0.9374 | 0.0001 | 0. | 1280.5 |
| 1290.5 | 210.75 | 0.00 | 1.0051 | -0.8637 | -0.5139 | 0.0001 | 0.4951 | -0.8631 | 0.0001 | 0. | 1290.5 |
| 1300.5 | 220.46 | 0.00 | 1.0077 | -0.7665 | -0.6542 | 0.0001 | 0.6330 | -0.7643 | 0.0001 | 0. | 1300.5 |
| 1310.5 | 230.16 | 0.01 | 1.0101 | -0.6471 | -0.7756 | 0.0001 | 0.7516 | -0.6442 | 0.0001 | 0. | 1310.5 |
| 1320.5 | 239.80 | 0.01 | 1.0122 | -0.5091 | -0.8748 | 0.0001 | 0.8481 | -0.5066 | 0.0000 | 0. | 1320.5 |
| 1330.5 | 249.40 | 0.01 | 1.0140 | -0.3567 | -0.9491 | 0.0001 | 0.9199 | -0.3554 | 0.0000 | 0. | 1330.5 |
| 1340.5 | 258.97 | 0.01 | 1.0153 | -0.1942 | -0.9966 | 0.0001 | 0.9653 | -0.1948 | 0.0000 | 0. | 1340.5 |
| 1350.5 | 268.53 | 0.01 | 1.0162 | -0.0262 | -1.0159 | 0.0001 | 0.9835 | -0.0293 | -0.0000 | 0. | 1350.5 |
| 1360.5 | 278.06 | 0.01 | 1.0167 | 0.1426 | -1.0066 | 0.0001 | 0.9739 | 0.1367 | -0.0000 | 0. | 1360.5 |
| 1370.5 | 287.60 | 0.01 | 1.0166 | 0.3073 | -0.9691 | 0.0001 | 0.9370 | 0.2988 | -0.0000 | 0. | 1370.5 |
| 1380.5 | 297.14 | 0.01 | 1.0161 | 0.4635 | -0.9043 | 0.0001 | 0.8737 | 0.4526 | -0.0001 | 0. | 1380.5 |
| 1390.5 | 306.69 | 0.00 | 1.0152 | 0.6065 | -0.8141 | 0.0001 | 0.7857 | 0.5940 | -0.0001 | 0. | 1390.5 |
| 1400.5 | 316.26 | 0.00 | 1.0138 | 0.7325 | -0.7009 | 0.0001 | 0.6751 | 0.7191 | -0.0001 | 0. | 1400.5 |
| 1410.5 | 325.87 | 0.00 | 1.0120 | 0.8377 | -0.5678 | 0.0001 | 0.5448 | 0.8243 | -0.0001 | 0. | 1410.5 |
| 1420.5 | 335.51 | 0.00 | 1.0098 | 0.9190 | -0.4186 | 0.0000 | 0.3982 | 0.9066 | -0.0001 | 0. | 1420.5 |
| 1430.5 | 345.20 | 0.00 | 1.0074 | 0.9739 | -0.2573 | 0.0000 | 0.2392 | 0.9634 | -0.0001 | 0. | 1430.5 |
| 1440.5 | 354.94 | -0.00 | 1.0047 | 1.0008 | -0.0887 | -0.0000 | 0.0720 | 0.9927 | -0.0001 | 0. | 1440.5 |
| 1450.5 | 4.72 | -0.00 | 1.0019 | 0.9985 | 0.0825 | -0.0000 | -0.0987 | 0.9932 | -0.0001 | 0. | 1450.5 |
| 1460.5 | 14.57 | -0.00 | 0.9990 | 0.9669 | 0.2513 | -0.0000 | -0.2679 | 0.9644 | -0.0001 | 0. | 1460.5 |
| 1470.5 | 24.47 | -0.00 | 0.9962 | 0.9067 | 0.4127 | -0.0001 | -0.4306 | 0.9067 | -0.0001 | 0. | 1470.5 |
| 1480.5 | 34.43 | -0.00 | 0.9935 | 0.8194 | 0.5617 | -0.0001 | -0.5818 | 0.8214 | -0.0001 | 0. | 1480.5 |
| 1490.5 | 44.44 | -0.01 | 0.9909 | 0.7075 | 0.6938 | -0.0001 | -0.7166 | 0.7105 | -0.0001 | 0. | 1490.5 |
| 1500.5 | 54.50 | -0.01 | 0.9886 | 0.5741 | 0.8049 | -0.0001 | -0.8306 | 0.5772 | -0.0001 | 0. | 1500.5 |
| 1510.5 | 64.60 | -0.01 | 0.9867 | 0.4231 | 0.8913 | -0.0001 | -0.9198 | 0.4254 | -0.0000 | 0. | 1510.5 |
| 1520.5 | 74.74 | -0.01 | 0.9851 | 0.2592 | 0.9504 | -0.0001 | -0.9812 | 0.2596 | -0.0000 | 0. | 1520.5 |
| 1530.5 | 84.91 | -0.01 | 0.9840 | 0.0873 | 0.9801 | -0.0001 | -1.0125 | 0.0852 | 0.0000 | 0. | 1530.5 |
| 1540.5 | 95.10 | -0.01 | 0.9834 | -0.0873 | 0.9795 | -0.0001 | -1.0125 | -0.0924 | 0.0000 | 0. | 1540.5 |
| 1550.5 | 105.29 | -0.01 | 0.9833 | -0.2593 | 0.9485 | -0.0001 | -0.9811 | -0.2672 | 0.0000 | 0. | 1550.5 |
| 1560.5 | 115.48 | -0.01 | 0.9837 | -0.4231 | 0.8881 | -0.0001 | -0.9192 | -0.4337 | 0.0001 | 0. | 1560.5 |
| 1570.5 | 125.65 | -0.00 | 0.9846 | -0.5739 | 0.8001 | -0.0001 | -0.8290 | -0.5865 | 0.0001 | 0. | 1570.5 |
| 1580.5 | 135.80 | -0.00 | 0.9860 | -0.7069 | 0.6874 | -0.0001 | -0.7136 | -0.7206 | 0.0001 | 0. | 1580.5 |
| 1590.5 | 145.92 | -0.00 | 0.9878 | -0.8182 | 0.5535 | -0.0001 | -0.5767 | -0.8319 | 0.0001 | 0. | 1590.5 |
| 1600.5 | 156.00 | -0.00 | 0.9899 | -0.9044 | 0.4026 | -0.0000 | -0.4231 | -0.9172 | 0.0001 | 0. | 1600.5 |
| 1610.5 | 166.03 | -0.00 | 0.9924 | -0.9631 | 0.2395 | -0.0000 | -0.2577 | -0.9741 | 0.0001 | 0. | 1610.5 |
| 1620.5 | 176.01 | 0.00 | 0.9951 | -0.9927 | 0.0692 | 0.0000 | -0.0859 | -1.0013 | 0.0001 | 0. | 1620.5 |
| 1630.5 | 185.94 | 0.00 | 0.9979 | -0.9925 | -0.1032 | 0.0000 | 0.0871 | -0.9983 | 0.0001 | 0. | 1630.5 |
| 1640.5 | 195.80 | 0.00 | 1.0008 | -0.9629 | -0.2726 | 0.0000 | 0.2561 | -0.9659 | 0.0001 | 0. | 1640.5 |
| 1650.5 | 205.62 | 0.00 | 1.0036 | -0.9050 | -0.4339 | 0.0001 | 0.4161 | -0.9054 | 0.0001 | 0. | 1650.5 |
| 1660.5 | 215.37 | 0.00 | 1.0063 | -0.8206 | -0.5826 | 0.0001 | 0.5627 | -0.8191 | 0.0001 | 0. | 1660.5 |
| 1670.5 | 225.08 | 0.01 | 1.0089 | -0.7124 | -0.7144 | 0.0001 | 0.6919 | -0.7098 | 0.0001 | 0. | 1670.5 |
| 1680.5 | 234.74 | 0.01 | 1.0111 | -0.5837 | -0.8256 | 0.0001 | 0.8003 | -0.5809 | 0.0001 | 0. | 1680.5 |
| 1690.5 | 244.36 | 0.01 | 1.0131 | -0.4384 | -0.9133 | 0.0001 | 0.8853 | -0.4363 | 0.0000 | 0. | 1690.5 |
| 1700.5 | 253.95 | 0.01 | 1.0146 | -0.2806 | -0.9751 | 0.0001 | 0.9448 | -0.2801 | 0.0000 | 0. | 1700.5 |
| 1710.5 | 263.51 | 0.01 | 1.0158 | -0.1149 | -1.0093 | 0.0001 | 0.9774 | -0.1166 | 0.0000 | 0. | 1710.5 |
| 1720.5 | 273.05 | 0.01 | 1.0165 | 0.0541 | -1.0150 | 0.0001 | 0.9824 | 0.0497 | -0.0000 | 0. | 1720.5 |
| 1730.5 | 282.59 | 0.01 | 1.0167 | 0.2215 | -0.9923 | 0.0001 | 0.9598 | 0.2144 | -0.0000 | 0. | 1730.5 |
| 1740.5 | 292.12 | 0.01 | 1.0165 | 0.3827 | -0.9416 | 0.0001 | 0.9102 | 0.3731 | -0.0001 | 0. | 1740.5 |
| 1750.5 | 301.66 | 0.01 | 1.0157 | 0.5332 | -0.8645 | 0.0001 | 0.8349 | 0.5215 | -0.0001 | 0. | 1750.5 |
| 1760.5 | 311.23 | 0.00 | 1.0145 | 0.6686 | -0.7630 | 0.0001 | 0.7359 | 0.6556 | -0.0001 | 0. | 1760.5 |
| 1770.5 | 320.82 | 0.00 | 1.0130 | 0.7852 | -0.6400 | 0.0001 | 0.6156 | 0.7717 | -0.0001 | 0. | 1770.5 |
| 1780.5 | 330.44 | 0.00 | 1.0110 | 0.8794 | -0.4988 | 0.0000 | 0.4771 | 0.8664 | -0.0001 | 0. | 1780.5 |
| 1790.5 | 340.10 | 0.00 | 1.0087 | 0.9485 | -0.3433 | 0.0000 | 0.3241 | 0.9369 | -0.0001 | 0. | 1790.5 |
| 1800.5 | 349.81 | 0.00 | 1.0061 | 0.9903 | -0.1780 | 0.0000 | 0.1606 | 0.9808 | -0.0001 | 0. | 1800.5 |
| 1810.5 | 359.57 | -0.00 | 1.0034 | 1.0034 | -0.0075 | -0.0000 | -0.0089 | 0.9966 | -0.0001 | 0. | 1810.5 |
| 1820.5 | 9.39 | -0.00 | 1.0006 | 0.9872 | 0.1632 | -0.0000 | -0.1795 | 0.9832 | -0.0001 | 0. | 1820.5 |
| 1830.5 | 19.26 | -0.00 | 0.9977 | 0.9418 | 0.3291 | -0.0000 | -0.3462 | 0.9406 | -0.0001 | 0. | 1830.5 |
| 1840.5 | 29.19 | -0.00 | 0.9949 | 0.8685 | 0.4852 | -0.0001 | -0.5041 | 0.8696 | -0.0001 | 0. | 1840.5 |
| 1850.5 | 39.17 | -0.00 | 0.9922 | 0.7692 | 0.6267 | -0.0001 | -0.6481 | 0.7718 | -0.0001 | 0. | 1850.5 |
| 1860.5 | 49.21 | -0.01 | 0.9898 | 0.6466 | 0.7493 | -0.0001 | -0.7735 | 0.6499 | -0.0001 | 0. | 1860.5 |
| 1870.5 | 59.29 | -0.01 | 0.9876 | 0.5044 | 0.8491 | -0.0001 | -0.8762 | 0.5072 | -0.0000 | 0. | 1870.5 |
| 1880.5 | 69.41 | -0.01 | 0.9859 | 0.3467 | 0.9229 | -0.0001 | -0.9526 | 0.3482 | -0.0000 | 0. | 1880.5 |
| 1890.5 | 79.56 | -0.01 | 0.9845 | 0.1783 | 0.9683 | -0.0001 | -0.9999 | 0.1776 | -0.0000 | 0. | 1890.5 |
| 1900.5 | 89.74 | -0.01 | 0.9837 | 0.0045 | 0.9837 | -0.0001 | -1.0165 | 0.0010 | 0.0000 | 0. | 1900.5 |
| 245 | | | | | | | | | | | 245 |

# JUPITER POSITION AND VELOCITY DATA

# FOR THE YEARS 1969-2000

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 | | | | | | | | | | | 244 |
| 0230.5 | 175.3 | 1.3 | 5.44 | -5.42 | 0.44 | 0.12 | -0.041 | -0.417 | 0.003 | 5.14 | 0230.5 |
| 0240.5 | 176.1 | 1.3 | 5.44 | -5.43 | 0.37 | 0.12 | -0.035 | -0.417 | 0.002 | 4.98 | 0240.5 |
| 0250.5 | 176.8 | 1.3 | 5.44 | -5.43 | 0.30 | 0.12 | -0.029 | -0.418 | 0.002 | 4.84 | 0250.5 |
| 0260.5 | 177.6 | 1.3 | 5.44 | -5.44 | 0.23 | 0.12 | -0.023 | -0.418 | 0.002 | 4.72 | 0260.5 |
| 0270.5 | 178.3 | 1.3 | 5.45 | -5.44 | 0.16 | 0.12 | -0.018 | -0.418 | 0.002 | 4.61 | 0270.5 |
| 0280.5 | 179.1 | 1.3 | 5.45 | -5.44 | 0.08 | 0.12 | -0.012 | -0.418 | 0.002 | 4.53 | 0280.5 |
| 0290.5 | 179.9 | 1.3 | 5.45 | -5.45 | 0.01 | 0.12 | -0.006 | -0.418 | 0.002 | 4.48 | 0290.5 |
| 0300.5 | 180.6 | 1.3 | 5.45 | -5.45 | -0.06 | 0.12 | -0.000 | -0.418 | 0.002 | 4.45 | 0300.5 |
| 0310.5 | 181.4 | 1.3 | 5.45 | -5.45 | -0.13 | 0.12 | 0.006 | -0.418 | 0.002 | 4.46 | 0310.5 |
| 0320.5 | 182.1 | 1.3 | 5.45 | -5.44 | -0.20 | 0.12 | 0.011 | -0.418 | 0.001 | 4.50 | 0320.5 |
| 0330.5 | 182.9 | 1.3 | 5.45 | -5.44 | -0.27 | 0.12 | 0.017 | -0.418 | 0.001 | 4.57 | 0330.5 |
| 0340.5 | 183.6 | 1.3 | 5.45 | -5.44 | -0.35 | 0.12 | 0.023 | -0.418 | 0.001 | 4.66 | 0340.5 |
| 0350.5 | 184.4 | 1.3 | 5.45 | -5.43 | -0.42 | 0.12 | 0.029 | -0.417 | 0.001 | 4.77 | 0350.5 |
| 0360.5 | 185.2 | 1.3 | 5.45 | -5.43 | -0.49 | 0.12 | 0.035 | -0.417 | 0.001 | 4.90 | 0360.5 |
| 0370.5 | 185.9 | 1.3 | 5.45 | -5.42 | -0.56 | 0.12 | 0.040 | -0.416 | 0.001 | 5.04 | 0370.5 |
| 0380.5 | 186.7 | 1.3 | 5.45 | -5.41 | -0.63 | 0.12 | 0.046 | -0.415 | 0.001 | 5.20 | 0380.5 |
| 0390.5 | 187.4 | 1.3 | 5.45 | -5.41 | -0.70 | 0.12 | 0.052 | -0.415 | 0.000 | 5.35 | 0390.5 |
| 0400.5 | 188.2 | 1.3 | 5.45 | -5.40 | -0.78 | 0.12 | 0.058 | -0.414 | 0.000 | 5.51 | 0400.5 |
| 0410.5 | 188.9 | 1.3 | 5.45 | -5.39 | -0.85 | 0.12 | 0.063 | -0.413 | 0.000 | 5.66 | 0410.5 |
| 0420.5 | 189.7 | 1.3 | 5.45 | -5.37 | -0.92 | 0.12 | 0.069 | -0.412 | 0.000 | 5.80 | 0420.5 |
| 0430.5 | 190.4 | 1.3 | 5.45 | -5.36 | -0.99 | 0.12 | 0.075 | -0.411 | -0.000 | 5.94 | 0430.5 |
| 0440.5 | 191.2 | 1.3 | 5.45 | -5.35 | -1.06 | 0.12 | 0.080 | -0.410 | -0.000 | 6.06 | 0440.5 |
| 0450.5 | 192.0 | 1.3 | 5.45 | -5.33 | -1.13 | 0.12 | 0.086 | -0.409 | -0.000 | 6.17 | 0450.5 |
| 0460.5 | 192.7 | 1.3 | 5.45 | -5.32 | -1.20 | 0.12 | 0.092 | -0.408 | -0.000 | 6.27 | 0460.5 |
| 0470.5 | 193.5 | 1.3 | 5.45 | -5.30 | -1.27 | 0.12 | 0.097 | -0.406 | -0.001 | 6.34 | 0470.5 |
| 0480.5 | 194.2 | 1.3 | 5.45 | -5.29 | -1.34 | 0.12 | 0.103 | -0.405 | -0.001 | 6.40 | 0480.5 |
| 0490.5 | 195.0 | 1.3 | 5.45 | -5.27 | -1.41 | 0.12 | 0.109 | -0.404 | -0.001 | 6.44 | 0490.5 |
| 0500.5 | 195.7 | 1.3 | 5.45 | -5.25 | -1.48 | 0.12 | 0.114 | -0.402 | -0.001 | 6.45 | 0500.5 |
| 0510.5 | 196.5 | 1.3 | 5.45 | -5.23 | -1.55 | 0.12 | 0.120 | -0.400 | -0.001 | 6.45 | 0510.5 |
| 0520.5 | 197.2 | 1.3 | 5.45 | -5.21 | -1.62 | 0.12 | 0.125 | -0.399 | -0.001 | 6.42 | 0520.5 |
| 0530.5 | 198.0 | 1.3 | 5.45 | -5.19 | -1.69 | 0.12 | 0.131 | -0.397 | -0.001 | 6.37 | 0530.5 |
| 0540.5 | 198.8 | 1.3 | 5.45 | -5.16 | -1.75 | 0.12 | 0.136 | -0.395 | -0.001 | 6.30 | 0540.5 |
| 0550.5 | 199.5 | 1.3 | 5.45 | -5.14 | -1.82 | 0.12 | 0.142 | -0.393 | -0.002 | 6.21 | 0550.5 |
| 0560.5 | 200.3 | 1.3 | 5.45 | -5.11 | -1.89 | 0.12 | 0.147 | -0.391 | -0.002 | 6.11 | 0560.5 |
| 0570.5 | 201.0 | 1.3 | 5.45 | -5.09 | -1.96 | 0.12 | 0.153 | -0.389 | -0.002 | 5.98 | 0570.5 |
| 0580.5 | 201.8 | 1.3 | 5.45 | -5.06 | -2.02 | 0.12 | 0.158 | -0.387 | -0.002 | 5.85 | 0580.5 |
| 0590.5 | 202.5 | 1.3 | 5.45 | -5.03 | -2.09 | 0.12 | 0.163 | -0.385 | -0.002 | 5.70 | 0590.5 |
| 0600.5 | 203.3 | 1.3 | 5.45 | -5.01 | -2.15 | 0.12 | 0.169 | -0.383 | -0.002 | 5.54 | 0600.5 |
| 0610.5 | 204.0 | 1.3 | 5.45 | -4.98 | -2.22 | 0.12 | 0.174 | -0.380 | -0.002 | 5.38 | 0610.5 |
| 0620.5 | 204.8 | 1.3 | 5.45 | -4.95 | -2.29 | 0.12 | 0.179 | -0.378 | -0.003 | 5.22 | 0620.5 |
| 0630.5 | 205.6 | 1.3 | 5.45 | -4.91 | -2.35 | 0.12 | 0.184 | -0.375 | -0.003 | 5.06 | 0630.5 |
| 0640.5 | 206.3 | 1.3 | 5.45 | -4.88 | -2.41 | 0.12 | 0.190 | -0.373 | -0.003 | 4.91 | 0640.5 |
| 0650.5 | 207.1 | 1.2 | 5.45 | -4.85 | -2.48 | 0.12 | 0.195 | -0.370 | -0.003 | 4.77 | 0650.5 |
| 0660.5 | 207.8 | 1.2 | 5.45 | -4.82 | -2.54 | 0.12 | 0.200 | -0.368 | -0.003 | 4.66 | 0660.5 |
| 0670.5 | 208.6 | 1.2 | 5.45 | -4.78 | -2.61 | 0.12 | 0.205 | -0.365 | -0.003 | 4.56 | 0670.5 |
| 0680.5 | 209.3 | 1.2 | 5.44 | -4.74 | -2.67 | 0.12 | 0.210 | -0.362 | -0.003 | 4.49 | 0680.5 |
| 0690.5 | 210.1 | 1.2 | 5.44 | -4.71 | -2.73 | 0.12 | 0.215 | -0.359 | -0.003 | 4.45 | 0690.5 |
| 0700.5 | 210.9 | 1.2 | 5.44 | -4.67 | -2.79 | 0.12 | 0.220 | -0.356 | -0.004 | 4.44 | 0700.5 |
| 0710.5 | 211.6 | 1.2 | 5.44 | -4.63 | -2.85 | 0.12 | 0.225 | -0.353 | -0.004 | 4.46 | 0710.5 |
| 0720.5 | 212.4 | 1.2 | 5.44 | -4.59 | -2.91 | 0.11 | 0.230 | -0.350 | -0.004 | 4.50 | 0720.5 |
| 0730.5 | 213.1 | 1.2 | 5.44 | -4.55 | -2.97 | 0.11 | 0.235 | -0.347 | -0.004 | 4.58 | 0730.5 |
| 0740.5 | 213.9 | 1.2 | 5.44 | -4.51 | -3.03 | 0.11 | 0.240 | -0.344 | -0.004 | 4.68 | 0740.5 |
| 0750.5 | 214.7 | 1.2 | 5.44 | -4.47 | -3.09 | 0.11 | 0.245 | -0.341 | -0.004 | 4.80 | 0750.5 |
| 0760.5 | 215.4 | 1.2 | 5.43 | -4.43 | -3.15 | 0.11 | 0.249 | -0.337 | -0.004 | 4.93 | 0760.5 |
| 0770.5 | 216.2 | 1.2 | 5.43 | -4.38 | -3.21 | 0.11 | 0.254 | -0.334 | -0.004 | 5.07 | 0770.5 |
| 0780.5 | 216.9 | 1.2 | 5.43 | -4.34 | -3.26 | 0.11 | 0.259 | -0.330 | -0.005 | 5.23 | 0780.5 |
| 0790.5 | 217.7 | 1.2 | 5.43 | -4.30 | -3.32 | 0.11 | 0.264 | -0.327 | -0.005 | 5.38 | 0790.5 |
| 0800.5 | 218.5 | 1.1 | 5.43 | -4.25 | -3.38 | 0.11 | 0.268 | -0.323 | -0.005 | 5.53 | 0800.5 |
| 0810.5 | 219.2 | 1.1 | 5.43 | -4.20 | -3.43 | 0.11 | 0.273 | -0.320 | -0.005 | 5.68 | 0810.5 |
| 0820.5 | 220.0 | 1.1 | 5.43 | -4.16 | -3.49 | 0.11 | 0.277 | -0.316 | -0.005 | 5.82 | 0820.5 |
| 0830.5 | 220.8 | 1.1 | 5.42 | -4.11 | -3.54 | 0.11 | 0.282 | -0.312 | -0.005 | 5.95 | 0830.5 |
| 0840.5 | 221.5 | 1.1 | 5.42 | -4.06 | -3.59 | 0.11 | 0.286 | -0.308 | -0.005 | 6.07 | 0840.5 |
| 0850.5 | 222.3 | 1.1 | 5.42 | -4.01 | -3.65 | 0.10 | 0.290 | -0.304 | -0.005 | 6.17 | 0850.5 |
| 0860.5 | 223.1 | 1.1 | 5.42 | -3.96 | -3.70 | 0.10 | 0.295 | -0.300 | -0.005 | 6.26 | 0860.5 |
| 0870.5 | 223.8 | 1.1 | 5.42 | -3.91 | -3.75 | 0.10 | 0.299 | -0.296 | -0.006 | 6.32 | 0870.5 |
| 0880.5 | 224.6 | 1.1 | 5.42 | -3.86 | -3.80 | 0.10 | 0.303 | -0.292 | -0.006 | 6.37 | 0880.5 |
| 0890.5 | 225.3 | 1.1 | 5.41 | -3.80 | -3.85 | 0.10 | 0.307 | -0.288 | -0.006 | 6.40 | 0890.5 |
| 0900.5 | 226.1 | 1.1 | 5.41 | -3.75 | -3.90 | 0.10 | 0.311 | -0.284 | -0.006 | 6.40 | 0900.5 |
| 0910.5 | 226.9 | 1.0 | 5.41 | -3.70 | -3.95 | 0.10 | 0.315 | -0.280 | -0.006 | 6.38 | 0910.5 |
| 0920.5 | 227.7 | 1.0 | 5.41 | -3.64 | -4.00 | 0.10 | 0.319 | -0.275 | -0.006 | 6.35 | 0920.5 |
| 0930.5 | 228.4 | 1.0 | 5.41 | -3.59 | -4.04 | 0.10 | 0.323 | -0.271 | -0.006 | 6.29 | 0930.5 |
| 0940.5 | 229.2 | 1.0 | 5.40 | -3.53 | -4.09 | 0.10 | 0.327 | -0.266 | -0.006 | 6.21 | 0940.5 |
| 0950.5 | 230.0 | 1.0 | 5.40 | -3.47 | -4.13 | 0.09 | 0.331 | -0.262 | -0.006 | 6.11 | 0950.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 0960.5 | 230.7 | 1.0 | 5.40 | -3.42 | -4.18 | 0.09 | 0.335 | -0.257 | -0.006 | 5.99 | 0960.5 |
| 0970.5 | 231.5 | 1.0 | 5.40 | -3.36 | -4.22 | 0.09 | 0.339 | -0.253 | -0.007 | 5.86 | 0970.5 |
| 0980.5 | 232.3 | 1.0 | 5.39 | -3.30 | -4.27 | 0.09 | 0.342 | -0.248 | -0.007 | 5.72 | 0980.5 |
| 0990.5 | 233.0 | 1.0 | 5.39 | -3.24 | -4.31 | 0.09 | 0.346 | -0.243 | -0.007 | 5.56 | 0990.5 |
| 1000.5 | 233.8 | 0.9 | 5.39 | -3.18 | -4.35 | 0.09 | 0.349 | -0.239 | -0.007 | 5.40 | 1000.5 |
| 1010.5 | 234.6 | 0.9 | 5.39 | -3.12 | -4.39 | 0.09 | 0.353 | -0.234 | -0.007 | 5.24 | 1010.5 |
| 1020.5 | 235.4 | 0.9 | 5.39 | -3.06 | -4.43 | 0.09 | 0.356 | -0.229 | -0.007 | 5.08 | 1020.5 |
| 1030.5 | 236.1 | 0.9 | 5.38 | -3.00 | -4.47 | 0.08 | 0.360 | -0.224 | -0.007 | 4.92 | 1030.5 |
| 1040.5 | 236.9 | 0.9 | 5.38 | -2.94 | -4.51 | 0.08 | 0.363 | -0.219 | -0.007 | 4.78 | 1040.5 |
| 1050.5 | 237.7 | 0.9 | 5.38 | -2.87 | -4.54 | 0.08 | 0.366 | -0.214 | -0.007 | 4.65 | 1050.5 |
| 1060.5 | 238.5 | 0.9 | 5.38 | -2.81 | -4.58 | 0.08 | 0.369 | -0.209 | -0.007 | 4.54 | 1060.5 |
| 1070.5 | 239.2 | 0.9 | 5.37 | -2.75 | -4.62 | 0.08 | 0.372 | -0.204 | -0.008 | 4.45 | 1070.5 |
| 1080.5 | 240.0 | 0.8 | 5.37 | -2.68 | -4.65 | 0.08 | 0.375 | -0.199 | -0.008 | 4.39 | 1080.5 |
| 1090.5 | 240.8 | 0.8 | 5.37 | -2.62 | -4.68 | 0.08 | 0.378 | -0.194 | -0.008 | 4.36 | 1090.5 |
| 1100.5 | 241.6 | 0.8 | 5.36 | -2.55 | -4.72 | 0.08 | 0.381 | -0.188 | -0.008 | 4.36 | 1100.5 |
| 1110.5 | 242.4 | 0.8 | 5.36 | -2.49 | -4.75 | 0.07 | 0.384 | -0.183 | -0.008 | 4.38 | 1110.5 |
| 1120.5 | 243.1 | 0.8 | 5.36 | -2.42 | -4.78 | 0.07 | 0.387 | -0.178 | -0.008 | 4.44 | 1120.5 |
| 1130.5 | 243.9 | 0.8 | 5.36 | -2.35 | -4.81 | 0.07 | 0.389 | -0.172 | -0.008 | 4.52 | 1130.5 |
| 1140.5 | 244.7 | 0.8 | 5.35 | -2.29 | -4.84 | 0.07 | 0.392 | -0.167 | -0.008 | 4.62 | 1140.5 |
| 1150.5 | 245.5 | 0.7 | 5.35 | -2.22 | -4.87 | 0.07 | 0.394 | -0.161 | -0.008 | 4.75 | 1150.5 |
| 1160.5 | 246.3 | 0.7 | 5.35 | -2.15 | -4.90 | 0.07 | 0.397 | -0.156 | -0.008 | 4.88 | 1160.5 |
| 1170.5 | 247.1 | 0.7 | 5.34 | -2.08 | -4.92 | 0.07 | 0.399 | -0.150 | -0.008 | 5.03 | 1170.5 |
| 1180.5 | 247.9 | 0.7 | 5.34 | -2.01 | -4.95 | 0.06 | 0.402 | -0.145 | -0.008 | 5.18 | 1180.5 |
| 1190.5 | 248.6 | 0.7 | 5.34 | -1.94 | -4.97 | 0.06 | 0.404 | -0.139 | -0.009 | 5.33 | 1190.5 |
| 1200.5 | 249.4 | 0.7 | 5.34 | -1.87 | -5.00 | 0.06 | 0.406 | -0.134 | -0.009 | 5.48 | 1200.5 |
| 1210.5 | 250.2 | 0.6 | 5.33 | -1.80 | -5.02 | 0.06 | 0.408 | -0.128 | -0.009 | 5.63 | 1210.5 |
| 1220.5 | 251.0 | 0.6 | 5.33 | -1.73 | -5.04 | 0.06 | 0.410 | -0.122 | -0.009 | 5.76 | 1220.5 |
| 1230.5 | 251.8 | 0.6 | 5.33 | -1.66 | -5.06 | 0.06 | 0.412 | -0.117 | -0.009 | 5.89 | 1230.5 |
| 1240.5 | 252.6 | 0.6 | 5.32 | -1.59 | -5.08 | 0.06 | 0.414 | -0.111 | -0.009 | 6.00 | 1240.5 |
| 1250.5 | 253.4 | 0.6 | 5.32 | -1.52 | -5.10 | 0.05 | 0.416 | -0.105 | -0.009 | 6.10 | 1250.5 |
| 1260.5 | 254.2 | 0.6 | 5.32 | -1.45 | -5.12 | 0.05 | 0.417 | -0.099 | -0.009 | 6.18 | 1260.5 |
| 1270.5 | 255.0 | 0.6 | 5.31 | -1.38 | -5.13 | 0.05 | 0.419 | -0.093 | -0.009 | 6.23 | 1270.5 |
| 1280.5 | 255.8 | 0.5 | 5.31 | -1.30 | -5.15 | 0.05 | 0.421 | -0.087 | -0.009 | 6.27 | 1280.5 |
| 1290.5 | 256.6 | 0.5 | 5.31 | -1.23 | -5.16 | 0.05 | 0.422 | -0.081 | -0.009 | 6.29 | 1290.5 |
| 1300.5 | 257.4 | 0.5 | 5.30 | -1.16 | -5.18 | 0.05 | 0.423 | -0.075 | -0.009 | 6.29 | 1300.5 |
| 1310.5 | 258.2 | 0.5 | 5.30 | -1.09 | -5.19 | 0.04 | 0.425 | -0.069 | -0.009 | 6.26 | 1310.5 |
| 1320.5 | 259.0 | 0.5 | 5.30 | -1.01 | -5.20 | 0.04 | 0.426 | -0.063 | -0.009 | 6.21 | 1320.5 |
| 1330.5 | 259.8 | 0.5 | 5.29 | -0.94 | -5.21 | 0.04 | 0.427 | -0.057 | -0.009 | 6.14 | 1330.5 |
| 1340.5 | 260.6 | 0.4 | 5.29 | -0.87 | -5.22 | 0.04 | 0.428 | -0.051 | -0.009 | 6.06 | 1340.5 |
| 1350.5 | 261.4 | 0.4 | 5.29 | -0.79 | -5.23 | 0.04 | 0.429 | -0.045 | -0.009 | 5.95 | 1350.5 |
| 1360.5 | 262.2 | 0.4 | 5.28 | -0.72 | -5.23 | 0.04 | 0.430 | -0.039 | -0.009 | 5.83 | 1360.5 |
| 1370.5 | 263.0 | 0.4 | 5.28 | -0.65 | -5.24 | 0.04 | 0.431 | -0.033 | -0.010 | 5.69 | 1370.5 |
| 1380.5 | 263.8 | 0.4 | 5.28 | -0.57 | -5.25 | 0.03 | 0.431 | -0.027 | -0.010 | 5.55 | 1380.5 |
| 1390.5 | 264.6 | 0.3 | 5.27 | -0.50 | -5.25 | 0.03 | 0.432 | -0.021 | -0.010 | 5.39 | 1390.5 |
| 1400.5 | 265.4 | 0.3 | 5.27 | -0.42 | -5.25 | 0.03 | 0.433 | -0.015 | -0.010 | 5.23 | 1400.5 |
| 1410.5 | 266.2 | 0.3 | 5.27 | -0.35 | -5.26 | 0.03 | 0.433 | -0.008 | -0.010 | 5.07 | 1410.5 |
| 1420.5 | 267.0 | 0.3 | 5.26 | -0.27 | -5.26 | 0.03 | 0.433 | -0.002 | -0.010 | 4.91 | 1420.5 |
| 1430.5 | 267.8 | 0.3 | 5.26 | -0.20 | -5.26 | 0.03 | 0.434 | 0.004 | -0.010 | 4.76 | 1430.5 |
| 1440.5 | 268.6 | 0.3 | 5.26 | -0.12 | -5.25 | 0.02 | 0.434 | 0.010 | -0.010 | 4.62 | 1440.5 |
| 1450.5 | 269.5 | 0.2 | 5.25 | -0.05 | -5.25 | 0.02 | 0.434 | 0.017 | -0.010 | 4.49 | 1450.5 |
| 1460.5 | 270.3 | 0.2 | 5.25 | 0.03 | -5.25 | 0.02 | 0.434 | 0.023 | -0.010 | 4.39 | 1460.5 |
| 1470.5 | 271.1 | 0.2 | 5.25 | 0.10 | -5.24 | 0.02 | 0.434 | 0.029 | -0.010 | 4.31 | 1470.5 |
| 1480.5 | 271.9 | 0.2 | 5.24 | 0.17 | -5.24 | 0.02 | 0.434 | 0.035 | -0.010 | 4.25 | 1480.5 |
| 1490.5 | 272.7 | 0.2 | 5.24 | 0.25 | -5.23 | 0.02 | 0.434 | 0.042 | -0.010 | 4.22 | 1490.5 |
| 1500.5 | 273.5 | 0.1 | 5.23 | 0.32 | -5.22 | 0.01 | 0.433 | 0.048 | -0.010 | 4.23 | 1500.5 |
| 1510.5 | 274.4 | 0.1 | 5.23 | 0.40 | -5.22 | 0.01 | 0.433 | 0.054 | -0.010 | 4.26 | 1510.5 |
| 1520.5 | 275.2 | 0.1 | 5.23 | 0.47 | -5.21 | 0.01 | 0.432 | 0.060 | -0.010 | 4.32 | 1520.5 |
| 1530.5 | 276.0 | 0.1 | 5.22 | 0.55 | -5.20 | 0.01 | 0.432 | 0.067 | -0.010 | 4.40 | 1530.5 |
| 1540.5 | 276.8 | 0.1 | 5.22 | 0.62 | -5.18 | 0.01 | 0.431 | 0.073 | -0.010 | 4.51 | 1540.5 |
| 1550.5 | 277.7 | 0.1 | 5.22 | 0.70 | -5.17 | 0.00 | 0.430 | 0.079 | -0.010 | 4.63 | 1550.5 |
| 1560.5 | 278.5 | 0.0 | 5.21 | 0.77 | -5.16 | 0.00 | 0.429 | 0.085 | -0.010 | 4.77 | 1560.5 |
| 1570.5 | 279.3 | 0.0 | 5.21 | 0.84 | -5.14 | 0.00 | 0.428 | 0.092 | -0.010 | 4.92 | 1570.5 |
| 1580.5 | 280.1 | -0.0 | 5.21 | 0.92 | -5.12 | -0.00 | 0.427 | 0.098 | -0.010 | 5.07 | 1580.5 |
| 1590.5 | 281.0 | -0.0 | 5.20 | 0.99 | -5.11 | -0.00 | 0.426 | 0.104 | -0.010 | 5.22 | 1590.5 |
| 1600.5 | 281.8 | -0.0 | 5.20 | 1.06 | -5.09 | -0.00 | 0.425 | 0.110 | -0.010 | 5.37 | 1600.5 |
| 1610.5 | 282.6 | -0.1 | 5.19 | 1.14 | -5.07 | -0.01 | 0.423 | 0.117 | -0.010 | 5.52 | 1610.5 |
| 1620.5 | 283.5 | -0.1 | 5.19 | 1.21 | -5.05 | -0.01 | 0.422 | 0.123 | -0.010 | 5.65 | 1620.5 |
| 1630.5 | 284.3 | -0.1 | 5.19 | 1.28 | -5.03 | -0.01 | 0.420 | 0.129 | -0.010 | 5.77 | 1630.5 |
| 1640.5 | 285.1 | -0.1 | 5.18 | 1.35 | -5.00 | -0.01 | 0.419 | 0.135 | -0.010 | 5.88 | 1640.5 |
| 1650.5 | 286.0 | -0.1 | 5.18 | 1.43 | -4.98 | -0.01 | 0.417 | 0.141 | -0.010 | 5.97 | 1650.5 |
| 1660.5 | 286.8 | -0.2 | 5.18 | 1.50 | -4.96 | -0.01 | 0.415 | 0.148 | -0.010 | 6.05 | 1660.5 |
| 1670.5 | 287.6 | -0.2 | 5.17 | 1.57 | -4.93 | -0.02 | 0.413 | 0.154 | -0.010 | 6.10 | 1670.5 |
| 1680.5 | 288.5 | -0.2 | 5.17 | 1.64 | -4.90 | -0.02 | 0.411 | 0.160 | -0.010 | 6.14 | 1680.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 1690.5 | 289.3 | -0.2 | 5.17 | 1.71 | -4.87 | -0.02 | 0.409 | 0.166 | -0.010 | 6.15 | 1690.5 |
| 1700.5 | 290.2 | -0.2 | 5.16 | 1.78 | -4.85 | -0.02 | 0.407 | 0.172 | -0.010 | 6.14 | 1700.5 |
| 1710.5 | 291.0 | -0.2 | 5.16 | 1.85 | -4.82 | -0.02 | 0.405 | 0.178 | -0.010 | 6.11 | 1710.5 |
| 1720.5 | 291.9 | -0.3 | 5.15 | 1.92 | -4.78 | -0.02 | 0.402 | 0.184 | -0.010 | 6.06 | 1720.5 |
| 1730.5 | 292.7 | -0.3 | 5.15 | 1.99 | -4.75 | -0.03 | 0.400 | 0.190 | -0.010 | 5.99 | 1730.5 |
| 1740.5 | 293.6 | -0.3 | 5.15 | 2.06 | -4.72 | -0.03 | 0.397 | 0.196 | -0.010 | 5.90 | 1740.5 |
| 1750.5 | 294.4 | -0.3 | 5.14 | 2.12 | -4.68 | -0.03 | 0.395 | 0.202 | -0.010 | 5.79 | 1750.5 |
| 1760.5 | 295.2 | -0.3 | 5.14 | 2.19 | -4.65 | -0.03 | 0.392 | 0.208 | -0.010 | 5.67 | 1760.5 |
| 1770.5 | 296.1 | -0.4 | 5.14 | 2.26 | -4.61 | -0.03 | 0.389 | 0.214 | -0.010 | 5.53 | 1770.5 |
| 1780.5 | 297.0 | -0.4 | 5.13 | 2.33 | -4.58 | -0.03 | 0.386 | 0.220 | -0.010 | 5.39 | 1780.5 |
| 1790.5 | 297.8 | -0.4 | 5.13 | 2.39 | -4.54 | -0.04 | 0.383 | 0.226 | -0.009 | 5.23 | 1790.5 |
| 1800.5 | 298.7 | -0.4 | 5.13 | 2.46 | -4.50 | -0.04 | 0.380 | 0.231 | -0.009 | 5.07 | 1800.5 |
| 1810.5 | 299.5 | -0.4 | 5.12 | 2.52 | -4.46 | -0.04 | 0.377 | 0.237 | -0.009 | 4.92 | 1810.5 |
| 1820.5 | 300.4 | -0.5 | 5.12 | 2.59 | -4.42 | -0.04 | 0.374 | 0.243 | -0.009 | 4.76 | 1820.5 |
| 1830.5 | 301.2 | -0.5 | 5.12 | 2.65 | -4.37 | -0.04 | 0.370 | 0.248 | -0.009 | 4.61 | 1830.5 |
| 1840.5 | 302.1 | -0.5 | 5.11 | 2.72 | -4.33 | -0.04 | 0.367 | 0.254 | -0.009 | 4.47 | 1840.5 |
| 1850.5 | 302.9 | -0.5 | 5.11 | 2.78 | -4.29 | -0.05 | 0.363 | 0.260 | -0.009 | 4.35 | 1850.5 |
| 1860.5 | 303.8 | -0.5 | 5.10 | 2.84 | -4.24 | -0.05 | 0.360 | 0.265 | -0.009 | 4.24 | 1860.5 |
| 1870.5 | 304.7 | -0.5 | 5.10 | 2.90 | -4.20 | -0.05 | 0.356 | 0.271 | -0.009 | 4.16 | 1870.5 |
| 1880.5 | 305.5 | -0.6 | 5.10 | 2.96 | -4.15 | -0.05 | 0.352 | 0.276 | -0.009 | 4.11 | 1880.5 |
| 1890.5 | 306.4 | -0.6 | 5.09 | 3.02 | -4.10 | -0.05 | 0.348 | 0.281 | -0.009 | 4.08 | 1890.5 |
| 1900.5 | 307.3 | -0.6 | 5.09 | 3.08 | -4.05 | -0.05 | 0.344 | 0.287 | -0.009 | 4.08 | 1900.5 |
| 1910.5 | 308.1 | -0.6 | 5.09 | 3.14 | -4.00 | -0.05 | 0.340 | 0.292 | -0.009 | 4.12 | 1910.5 |
| 1920.5 | 309.0 | -0.6 | 5.08 | 3.20 | -3.95 | -0.06 | 0.336 | 0.297 | -0.009 | 4.18 | 1920.5 |
| 1930.5 | 309.9 | -0.7 | 5.08 | 3.26 | -3.90 | -0.06 | 0.332 | 0.302 | -0.009 | 4.26 | 1930.5 |
| 1940.5 | 310.7 | -0.7 | 5.08 | 3.31 | -3.85 | -0.06 | 0.328 | 0.307 | -0.009 | 4.37 | 1940.5 |
| 1950.5 | 311.6 | -0.7 | 5.07 | 3.37 | -3.79 | -0.06 | 0.323 | 0.312 | -0.008 | 4.49 | 1950.5 |
| 1960.5 | 312.5 | -0.7 | 5.07 | 3.43 | -3.74 | -0.06 | 0.319 | 0.317 | -0.008 | 4.63 | 1960.5 |
| 1970.5 | 313.4 | -0.7 | 5.07 | 3.48 | -3.68 | -0.06 | 0.314 | 0.322 | -0.008 | 4.78 | 1970.5 |
| 1980.5 | 314.2 | -0.7 | 5.07 | 3.53 | -3.63 | -0.06 | 0.310 | 0.327 | -0.008 | 4.94 | 1980.5 |
| 1990.5 | 315.1 | -0.8 | 5.06 | 3.59 | -3.57 | -0.07 | 0.305 | 0.332 | -0.008 | 5.09 | 1990.5 |
| 2000.5 | 316.0 | -0.8 | 5.06 | 3.64 | -3.51 | -0.07 | 0.300 | 0.337 | -0.008 | 5.24 | 2000.5 |
| 2010.5 | 316.9 | -0.8 | 5.06 | 3.69 | -3.46 | -0.07 | 0.295 | 0.341 | -0.008 | 5.39 | 2010.5 |
| 2020.5 | 317.7 | -0.8 | 5.05 | 3.74 | -3.40 | -0.07 | 0.290 | 0.346 | -0.008 | 5.52 | 2020.5 |
| 2030.5 | 318.6 | -0.8 | 5.05 | 3.79 | -3.34 | -0.07 | 0.285 | 0.350 | -0.008 | 5.65 | 2030.5 |
| 2040.5 | 319.5 | -0.8 | 5.05 | 3.84 | -3.28 | -0.07 | 0.280 | 0.355 | -0.008 | 5.75 | 2040.5 |
| 2050.5 | 320.4 | -0.8 | 5.04 | 3.89 | -3.22 | -0.07 | 0.275 | 0.359 | -0.008 | 5.85 | 2050.5 |
| 2060.5 | 321.3 | -0.9 | 5.04 | 3.93 | -3.15 | -0.08 | 0.270 | 0.363 | -0.007 | 5.92 | 2060.5 |
| 2070.5 | 322.2 | -0.9 | 5.04 | 3.98 | -3.09 | -0.08 | 0.264 | 0.367 | -0.007 | 5.97 | 2070.5 |
| 2080.5 | 323.0 | -0.9 | 5.04 | 4.02 | -3.03 | -0.08 | 0.259 | 0.372 | -0.007 | 6.01 | 2080.5 |
| 2090.5 | 323.9 | -0.9 | 5.03 | 4.07 | -2.96 | -0.08 | 0.253 | 0.376 | -0.007 | 6.02 | 2090.5 |
| 2100.5 | 324.8 | -0.9 | 5.03 | 4.11 | -2.90 | -0.08 | 0.248 | 0.380 | -0.007 | 6.01 | 2100.5 |
| 2110.5 | 325.7 | -0.9 | 5.03 | 4.15 | -2.83 | -0.08 | 0.242 | 0.383 | -0.007 | 5.98 | 2110.5 |
| 2120.5 | 326.6 | -0.9 | 5.02 | 4.19 | -2.77 | -0.08 | 0.237 | 0.387 | -0.007 | 5.93 | 2120.5 |
| 2130.5 | 327.5 | -1.0 | 5.02 | 4.23 | -2.70 | -0.08 | 0.231 | 0.391 | -0.007 | 5.86 | 2130.5 |
| 2140.5 | 328.4 | -1.0 | 5.02 | 4.27 | -2.63 | -0.09 | 0.225 | 0.395 | -0.007 | 5.78 | 2140.5 |
| 2150.5 | 329.3 | -1.0 | 5.02 | 4.31 | -2.56 | -0.09 | 0.219 | 0.398 | -0.006 | 5.68 | 2150.5 |
| 2160.5 | 330.2 | -1.0 | 5.01 | 4.35 | -2.49 | -0.09 | 0.213 | 0.402 | -0.006 | 5.56 | 2160.5 |
| 2170.5 | 331.1 | -1.0 | 5.01 | 4.38 | -2.43 | -0.09 | 0.207 | 0.405 | -0.006 | 5.43 | 2170.5 |
| 2180.5 | 332.0 | -1.0 | 5.01 | 4.42 | -2.36 | -0.09 | 0.201 | 0.408 | -0.006 | 5.29 | 2180.5 |
| 2190.5 | 332.8 | -1.0 | 5.01 | 4.45 | -2.28 | -0.09 | 0.195 | 0.411 | -0.006 | 5.14 | 2190.5 |
| 2200.5 | 333.7 | -1.1 | 5.00 | 4.49 | -2.21 | -0.09 | 0.189 | 0.415 | -0.006 | 4.98 | 2200.5 |
| 2210.5 | 334.6 | -1.1 | 5.00 | 4.52 | -2.14 | -0.09 | 0.183 | 0.418 | -0.006 | 4.83 | 2210.5 |
| 2220.5 | 335.5 | -1.1 | 5.00 | 4.55 | -2.07 | -0.09 | 0.177 | 0.420 | -0.006 | 4.67 | 2220.5 |
| 2230.5 | 336.4 | -1.1 | 5.00 | 4.58 | -2.00 | -0.09 | 0.170 | 0.423 | -0.005 | 4.53 | 2230.5 |
| 2240.5 | 337.3 | -1.1 | 5.00 | 4.61 | -1.92 | -0.10 | 0.164 | 0.426 | -0.005 | 4.39 | 2240.5 |
| 2250.5 | 338.2 | -1.1 | 4.99 | 4.64 | -1.85 | -0.10 | 0.158 | 0.429 | -0.005 | 4.26 | 2250.5 |
| 2260.5 | 339.1 | -1.1 | 4.99 | 4.66 | -1.78 | -0.10 | 0.151 | 0.431 | -0.005 | 4.16 | 2260.5 |
| 2270.5 | 340.0 | -1.1 | 4.99 | 4.69 | -1.70 | -0.10 | 0.145 | 0.433 | -0.005 | 4.07 | 2270.5 |
| 2280.5 | 340.9 | -1.1 | 4.99 | 4.71 | -1.63 | -0.10 | 0.138 | 0.436 | -0.005 | 4.01 | 2280.5 |
| 2290.5 | 341.8 | -1.2 | 4.99 | 4.74 | -1.55 | -0.10 | 0.132 | 0.438 | -0.005 | 3.98 | 2290.5 |
| 2300.5 | 342.8 | -1.2 | 4.98 | 4.76 | -1.48 | -0.10 | 0.125 | 0.440 | -0.005 | 3.98 | 2300.5 |
| 2310.5 | 343.7 | -1.2 | 4.98 | 4.78 | -1.40 | -0.10 | 0.118 | 0.442 | -0.004 | 4.01 | 2310.5 |
| 2320.5 | 344.6 | -1.2 | 4.98 | 4.80 | -1.33 | -0.10 | 0.112 | 0.444 | -0.004 | 4.06 | 2320.5 |
| 2330.5 | 345.5 | -1.2 | 4.98 | 4.82 | -1.25 | -0.10 | 0.105 | 0.446 | -0.004 | 4.15 | 2330.5 |
| 2340.5 | 346.4 | -1.2 | 4.98 | 4.84 | -1.17 | -0.10 | 0.098 | 0.447 | -0.004 | 4.26 | 2340.5 |
| 2350.5 | 347.3 | -1.2 | 4.97 | 4.85 | -1.09 | -0.10 | 0.092 | 0.449 | -0.004 | 4.38 | 2350.5 |
| 2360.5 | 348.2 | -1.2 | 4.97 | 4.87 | -1.02 | -0.11 | 0.085 | 0.451 | -0.004 | 4.52 | 2360.5 |
| 2370.5 | 349.1 | -1.2 | 4.97 | 4.88 | -0.94 | -0.11 | 0.078 | 0.452 | -0.004 | 4.67 | 2370.5 |
| 2380.5 | 350.0 | -1.2 | 4.97 | 4.89 | -0.86 | -0.11 | 0.071 | 0.453 | -0.003 | 4.83 | 2380.5 |
| 2390.5 | 350.9 | -1.2 | 4.97 | 4.91 | -0.78 | -0.11 | 0.064 | 0.454 | -0.003 | 4.98 | 2390.5 |
| 2400.5 | 351.8 | -1.2 | 4.97 | 4.92 | -0.71 | -0.11 | 0.057 | 0.455 | -0.003 | 5.14 | 2400.5 |
| 2410.5 | 352.7 | -1.2 | 4.97 | 4.92 | -0.63 | -0.11 | 0.050 | 0.456 | -0.003 | 5.29 | 2410.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 2420.5 | 353.7 | -1.3 | 4.96 | 4.93 | -0.55 | -0.11 | 0.043 | 0.457 | -0.003 | 5.43 | 2420.5 |
| 2430.5 | 354.6 | -1.3 | 4.96 | 4.94 | -0.47 | -0.11 | 0.037 | 0.458 | -0.003 | 5.55 | 2430.5 |
| 2440.5 | 355.5 | -1.3 | 4.96 | 4.95 | -0.39 | -0.11 | 0.030 | 0.458 | -0.002 | 5.66 | 2440.5 |
| 2450.5 | 356.4 | -1.3 | 4.96 | 4.95 | -0.31 | -0.11 | 0.023 | 0.459 | -0.002 | 5.76 | 2450.5 |
| 2460.5 | 357.3 | -1.3 | 4.96 | 4.95 | -0.23 | -0.11 | 0.016 | 0.459 | -0.002 | 5.84 | 2460.5 |
| 2470.5 | 358.2 | -1.3 | 4.96 | 4.96 | -0.15 | -0.11 | 0.009 | 0.460 | -0.002 | 5.89 | 2470.5 |
| 2480.5 | 359.1 | -1.3 | 4.96 | 4.96 | -0.07 | -0.11 | 0.002 | 0.460 | -0.002 | 5.93 | 2480.5 |
| 2490.5 | 0.0 | -1.3 | 4.96 | 4.96 | 0.00 | -0.11 | -0.005 | 0.460 | -0.002 | 5.95 | 2490.5 |
| 2500.5 | 1.0 | -1.3 | 4.96 | 4.95 | 0.08 | -0.11 | -0.012 | 0.460 | -0.002 | 5.95 | 2500.5 |
| 2510.5 | 1.9 | -1.3 | 4.96 | 4.95 | 0.16 | -0.11 | -0.019 | 0.460 | -0.001 | 5.93 | 2510.5 |
| 2520.5 | 2.8 | -1.3 | 4.95 | 4.95 | 0.24 | -0.11 | -0.026 | 0.459 | -0.001 | 5.88 | 2520.5 |
| 2530.5 | 3.7 | -1.3 | 4.95 | 4.94 | 0.32 | -0.11 | -0.033 | 0.459 | -0.001 | 5.82 | 2530.5 |
| 2540.5 | 4.6 | -1.3 | 4.95 | 4.94 | 0.40 | -0.11 | -0.040 | 0.458 | -0.001 | 5.74 | 2540.5 |
| 2550.5 | 5.5 | -1.3 | 4.95 | 4.93 | 0.48 | -0.11 | -0.047 | 0.458 | -0.001 | 5.65 | 2550.5 |
| 2560.5 | 6.5 | -1.3 | 4.95 | 4.92 | 0.56 | -0.11 | -0.054 | 0.457 | -0.001 | 5.54 | 2560.5 |
| 2570.5 | 7.4 | -1.3 | 4.95 | 4.91 | 0.64 | -0.11 | -0.061 | 0.456 | -0.000 | 5.42 | 2570.5 |
| 2580.5 | 8.3 | -1.3 | 4.95 | 4.90 | 0.71 | -0.11 | -0.068 | 0.455 | -0.000 | 5.28 | 2580.5 |
| 2590.5 | 9.2 | -1.3 | 4.95 | 4.89 | 0.79 | -0.11 | -0.075 | 0.454 | -0.000 | 5.14 | 2590.5 |
| 2600.5 | 10.1 | -1.3 | 4.95 | 4.87 | 0.87 | -0.11 | -0.082 | 0.453 | 0.000 | 4.99 | 2600.5 |
| 2610.5 | 11.0 | -1.3 | 4.95 | 4.86 | 0.95 | -0.11 | -0.089 | 0.452 | 0.000 | 4.84 | 2610.5 |
| 2620.5 | 12.0 | -1.3 | 4.95 | 4.84 | 1.03 | -0.11 | -0.096 | 0.450 | 0.000 | 4.68 | 2620.5 |
| 2630.5 | 12.9 | -1.3 | 4.95 | 4.83 | 1.10 | -0.11 | -0.103 | 0.449 | 0.001 | 4.53 | 2630.5 |
| 2640.5 | 13.8 | -1.3 | 4.95 | 4.81 | 1.18 | -0.11 | -0.110 | 0.447 | 0.001 | 4.39 | 2640.5 |
| 2650.5 | 14.7 | -1.3 | 4.95 | 4.79 | 1.26 | -0.11 | -0.116 | 0.445 | 0.001 | 4.27 | 2650.5 |
| 2660.5 | 15.6 | -1.3 | 4.95 | 4.77 | 1.33 | -0.11 | -0.123 | 0.444 | 0.001 | 4.16 | 2660.5 |
| 2670.5 | 16.5 | -1.3 | 4.95 | 4.74 | 1.41 | -0.11 | -0.130 | 0.442 | 0.001 | 4.07 | 2670.5 |
| 2680.5 | 17.5 | -1.3 | 4.95 | 4.72 | 1.48 | -0.11 | -0.137 | 0.440 | 0.001 | 4.00 | 2680.5 |
| 2690.5 | 18.4 | -1.3 | 4.95 | 4.70 | 1.56 | -0.11 | -0.143 | 0.437 | 0.001 | 3.96 | 2690.5 |
| 2700.5 | 19.3 | -1.3 | 4.95 | 4.67 | 1.64 | -0.11 | -0.150 | 0.435 | 0.002 | 3.96 | 2700.5 |
| 2710.5 | 20.2 | -1.3 | 4.95 | 4.65 | 1.71 | -0.11 | -0.157 | 0.433 | 0.002 | 3.98 | 2710.5 |
| 2720.5 | 21.1 | -1.3 | 4.95 | 4.62 | 1.78 | -0.11 | -0.163 | 0.430 | 0.002 | 4.03 | 2720.5 |
| 2730.5 | 22.0 | -1.3 | 4.95 | 4.59 | 1.86 | -0.11 | -0.170 | 0.428 | 0.002 | 4.11 | 2730.5 |
| 2740.5 | 23.0 | -1.3 | 4.95 | 4.56 | 1.93 | -0.11 | -0.176 | 0.425 | 0.002 | 4.22 | 2740.5 |
| 2750.5 | 23.9 | -1.3 | 4.95 | 4.53 | 2.00 | -0.11 | -0.183 | 0.422 | 0.002 | 4.34 | 2750.5 |
| 2760.5 | 24.8 | -1.3 | 4.96 | 4.50 | 2.08 | -0.11 | -0.189 | 0.419 | 0.003 | 4.48 | 2760.5 |
| 2770.5 | 25.7 | -1.3 | 4.96 | 4.46 | 2.15 | -0.11 | -0.195 | 0.416 | 0.003 | 4.63 | 2770.5 |
| 2780.5 | 26.6 | -1.3 | 4.96 | 4.43 | 2.22 | -0.11 | -0.202 | 0.413 | 0.003 | 4.79 | 2780.5 |
| 2790.5 | 27.5 | -1.2 | 4.96 | 4.40 | 2.29 | -0.11 | -0.208 | 0.410 | 0.003 | 4.95 | 2790.5 |
| 2800.5 | 28.4 | -1.2 | 4.96 | 4.36 | 2.36 | -0.11 | -0.214 | 0.407 | 0.003 | 5.11 | 2800.5 |
| 2810.5 | 29.4 | -1.2 | 4.96 | 4.32 | 2.43 | -0.11 | -0.220 | 0.403 | 0.003 | 5.26 | 2810.5 |
| 2820.5 | 30.3 | -1.2 | 4.96 | 4.28 | 2.50 | -0.11 | -0.226 | 0.400 | 0.003 | 5.40 | 2820.5 |
| 2830.5 | 31.2 | -1.2 | 4.96 | 4.24 | 2.57 | -0.11 | -0.232 | 0.396 | 0.004 | 5.54 | 2830.5 |
| 2840.5 | 32.1 | -1.2 | 4.96 | 4.20 | 2.64 | -0.10 | -0.238 | 0.393 | 0.004 | 5.65 | 2840.5 |
| 2850.5 | 33.0 | -1.2 | 4.96 | 4.16 | 2.70 | -0.10 | -0.244 | 0.389 | 0.004 | 5.75 | 2850.5 |
| 2860.5 | 33.9 | -1.2 | 4.96 | 4.12 | 2.77 | -0.10 | -0.250 | 0.385 | 0.004 | 5.84 | 2860.5 |
| 2870.5 | 34.8 | -1.2 | 4.97 | 4.08 | 2.84 | -0.10 | -0.256 | 0.381 | 0.004 | 5.90 | 2870.5 |
| 2880.5 | 35.7 | -1.2 | 4.97 | 4.03 | 2.90 | -0.10 | -0.261 | 0.377 | 0.004 | 5.95 | 2880.5 |
| 2890.5 | 36.7 | -1.2 | 4.97 | 3.99 | 2.97 | -0.10 | -0.267 | 0.373 | 0.005 | 5.97 | 2890.5 |
| 2900.5 | 37.6 | -1.2 | 4.97 | 3.94 | 3.03 | -0.10 | -0.273 | 0.369 | 0.005 | 5.98 | 2900.5 |
| 2910.5 | 38.5 | -1.1 | 4.97 | 3.89 | 3.09 | -0.10 | -0.278 | 0.365 | 0.005 | 5.96 | 2910.5 |
| 2920.5 | 39.4 | -1.1 | 4.97 | 3.84 | 3.15 | -0.10 | -0.284 | 0.360 | 0.005 | 5.93 | 2920.5 |
| 2930.5 | 40.3 | -1.1 | 4.98 | 3.79 | 3.22 | -0.10 | -0.289 | 0.356 | 0.005 | 5.88 | 2930.5 |
| 2940.5 | 41.2 | -1.1 | 4.98 | 3.74 | 3.28 | -0.10 | -0.294 | 0.351 | 0.005 | 5.80 | 2940.5 |
| 2950.5 | 42.1 | -1.1 | 4.98 | 3.69 | 3.34 | -0.10 | -0.299 | 0.347 | 0.005 | 5.72 | 2950.5 |
| 2960.5 | 43.0 | -1.1 | 4.98 | 3.64 | 3.40 | -0.10 | -0.304 | 0.342 | 0.005 | 5.61 | 2960.5 |
| 2970.5 | 43.9 | -1.1 | 4.98 | 3.59 | 3.45 | -0.09 | -0.309 | 0.337 | 0.006 | 5.50 | 2970.5 |
| 2980.5 | 44.8 | -1.1 | 4.98 | 3.53 | 3.51 | -0.09 | -0.314 | 0.332 | 0.006 | 5.37 | 2980.5 |
| 2990.5 | 45.7 | -1.1 | 4.99 | 3.48 | 3.57 | -0.09 | -0.319 | 0.327 | 0.006 | 5.23 | 2990.5 |
| 3000.5 | 46.6 | -1.0 | 4.99 | 3.42 | 3.63 | -0.09 | -0.324 | 0.322 | 0.006 | 5.08 | 3000.5 |
| 3010.5 | 47.5 | -1.0 | 4.99 | 3.37 | 3.68 | -0.09 | -0.329 | 0.317 | 0.006 | 4.93 | 3010.5 |
| 3020.5 | 48.4 | -1.0 | 4.99 | 3.31 | 3.73 | -0.09 | -0.333 | 0.312 | 0.006 | 4.78 | 3020.5 |
| 3030.5 | 49.3 | -1.0 | 4.99 | 3.25 | 3.79 | -0.09 | -0.338 | 0.307 | 0.006 | 4.63 | 3030.5 |
| 3040.5 | 50.2 | -1.0 | 5.00 | 3.20 | 3.84 | -0.09 | -0.342 | 0.302 | 0.006 | 4.49 | 3040.5 |
| 3050.5 | 51.1 | -1.0 | 5.00 | 3.14 | 3.89 | -0.09 | -0.347 | 0.296 | 0.007 | 4.36 | 3050.5 |
| 3060.5 | 52.0 | -1.0 | 5.00 | 3.08 | 3.94 | -0.08 | -0.351 | 0.291 | 0.007 | 4.24 | 3060.5 |
| 3070.5 | 52.9 | -1.0 | 5.00 | 3.02 | 3.99 | -0.08 | -0.355 | 0.285 | 0.007 | 4.15 | 3070.5 |
| 3080.5 | 53.8 | -0.9 | 5.01 | 2.95 | 4.04 | -0.08 | -0.359 | 0.280 | 0.007 | 4.08 | 3080.5 |
| 3090.5 | 54.7 | -0.9 | 5.01 | 2.89 | 4.09 | -0.08 | -0.363 | 0.274 | 0.007 | 4.03 | 3090.5 |
| 3100.5 | 55.6 | -0.9 | 5.01 | 2.83 | 4.13 | -0.08 | -0.367 | 0.269 | 0.007 | 4.02 | 3100.5 |
| 3110.5 | 56.5 | -0.9 | 5.01 | 2.77 | 4.18 | -0.08 | -0.371 | 0.263 | 0.007 | 4.04 | 3110.5 |
| 3120.5 | 57.4 | -0.9 | 5.02 | 2.70 | 4.22 | -0.08 | -0.375 | 0.257 | 0.007 | 4.09 | 3120.5 |
| 3130.5 | 58.3 | -0.9 | 5.02 | 2.64 | 4.27 | -0.08 | -0.378 | 0.252 | 0.007 | 4.17 | 3130.5 |
| 3140.5 | 59.2 | -0.9 | 5.02 | 2.57 | 4.31 | -0.07 | -0.382 | 0.246 | 0.008 | 4.27 | 3140.5 |
| 244 | | | | | | | | | | | 244 |

JUPITER

1977 - 1978
244 3150.5 - 244 3870.5

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3150.5 | 60.1 | -0.8 | 5.02 | 2.51 | 4.35 | -0.07 | -0.385 | 0.240 | 0.008 | 4.40 | 3150.5 |
| 3160.5 | 61.0 | -0.8 | 5.03 | 2.44 | 4.39 | -0.07 | -0.389 | 0.234 | 0.008 | 4.54 | 3160.5 |
| 3170.5 | 61.9 | -0.8 | 5.03 | 2.37 | 4.43 | -0.07 | -0.392 | 0.228 | 0.008 | 4.69 | 3170.5 |
| 3180.5 | 62.7 | -0.8 | 5.03 | 2.30 | 4.47 | -0.07 | -0.395 | 0.222 | 0.008 | 4.85 | 3180.5 |
| 3190.5 | 63.6 | -0.8 | 5.03 | 2.24 | 4.51 | -0.07 | -0.398 | 0.216 | 0.008 | 5.01 | 3190.5 |
| 3200.5 | 64.5 | -0.8 | 5.04 | 2.17 | 4.55 | -0.07 | -0.401 | 0.210 | 0.008 | 5.17 | 3200.5 |
| 3210.5 | 65.4 | -0.7 | 5.04 | 2.10 | 4.58 | -0.07 | -0.404 | 0.204 | 0.008 | 5.33 | 3210.5 |
| 3220.5 | 66.3 | -0.7 | 5.04 | 2.03 | 4.62 | -0.06 | -0.407 | 0.197 | 0.008 | 5.47 | 3220.5 |
| 3230.5 | 67.2 | -0.7 | 5.05 | 1.96 | 4.65 | -0.06 | -0.410 | 0.191 | 0.008 | 5.61 | 3230.5 |
| 3240.5 | 68.1 | -0.7 | 5.05 | 1.89 | 4.68 | -0.06 | -0.412 | 0.185 | 0.009 | 5.73 | 3240.5 |
| 3250.5 | 68.9 | -0.7 | 5.05 | 1.82 | 4.71 | -0.06 | -0.415 | 0.179 | 0.009 | 5.83 | 3250.5 |
| 3260.5 | 69.8 | -0.7 | 5.05 | 1.74 | 4.74 | -0.06 | -0.417 | 0.172 | 0.009 | 5.92 | 3260.5 |
| 3270.5 | 70.7 | -0.6 | 5.06 | 1.67 | 4.77 | -0.06 | -0.419 | 0.166 | 0.009 | 5.99 | 3270.5 |
| 3280.5 | 71.6 | -0.6 | 5.06 | 1.60 | 4.80 | -0.05 | -0.421 | 0.160 | 0.009 | 6.04 | 3280.5 |
| 3290.5 | 72.4 | -0.6 | 5.06 | 1.53 | 4.83 | -0.05 | -0.424 | 0.153 | 0.009 | 6.07 | 3290.5 |
| 3300.5 | 73.3 | -0.6 | 5.07 | 1.45 | 4.85 | -0.05 | -0.426 | 0.147 | 0.009 | 6.08 | 3300.5 |
| 3310.5 | 74.2 | -0.6 | 5.07 | 1.38 | 4.88 | -0.05 | -0.427 | 0.140 | 0.009 | 6.07 | 3310.5 |
| 3320.5 | 75.1 | -0.6 | 5.07 | 1.31 | 4.90 | -0.05 | -0.429 | 0.134 | 0.009 | 6.04 | 3320.5 |
| 3330.5 | 75.9 | -0.5 | 5.08 | 1.23 | 4.92 | -0.05 | -0.431 | 0.127 | 0.009 | 6.00 | 3330.5 |
| 3340.5 | 76.8 | -0.5 | 5.08 | 1.16 | 4.95 | -0.05 | -0.432 | 0.121 | 0.009 | 5.93 | 3340.5 |
| 3350.5 | 77.7 | -0.5 | 5.08 | 1.08 | 4.97 | -0.04 | -0.434 | 0.114 | 0.009 | 5.85 | 3350.5 |
| 3360.5 | 78.6 | -0.5 | 5.09 | 1.01 | 4.98 | -0.04 | -0.435 | 0.108 | 0.009 | 5.75 | 3360.5 |
| 3370.5 | 79.4 | -0.5 | 5.09 | 0.93 | 5.00 | -0.04 | -0.437 | 0.101 | 0.009 | 5.63 | 3370.5 |
| 3380.5 | 80.3 | -0.4 | 5.09 | 0.86 | 5.02 | -0.04 | -0.438 | 0.095 | 0.009 | 5.51 | 3380.5 |
| 3390.5 | 81.2 | -0.4 | 5.10 | 0.78 | 5.04 | -0.04 | -0.439 | 0.088 | 0.009 | 5.37 | 3390.5 |
| 3400.5 | 82.0 | -0.4 | 5.10 | 0.71 | 5.05 | -0.04 | -0.440 | 0.082 | 0.010 | 5.22 | 3400.5 |
| 3410.5 | 82.9 | -0.4 | 5.10 | 0.63 | 5.06 | -0.03 | -0.441 | 0.075 | 0.010 | 5.07 | 3410.5 |
| 3420.5 | 83.7 | -0.4 | 5.11 | 0.56 | 5.08 | -0.03 | -0.441 | 0.069 | 0.010 | 4.92 | 3420.5 |
| 3430.5 | 84.6 | -0.3 | 5.11 | 0.48 | 5.09 | -0.03 | -0.442 | 0.062 | 0.010 | 4.77 | 3430.5 |
| 3440.5 | 85.5 | -0.3 | 5.11 | 0.40 | 5.10 | -0.03 | -0.443 | 0.055 | 0.010 | 4.62 | 3440.5 |
| 3450.5 | 86.3 | -0.3 | 5.12 | 0.33 | 5.11 | -0.03 | -0.443 | 0.049 | 0.010 | 4.49 | 3450.5 |
| 3460.5 | 87.2 | -0.3 | 5.12 | 0.25 | 5.11 | -0.03 | -0.443 | 0.042 | 0.010 | 4.37 | 3460.5 |
| 3470.5 | 88.0 | -0.3 | 5.12 | 0.18 | 5.12 | -0.02 | -0.444 | 0.036 | 0.010 | 4.28 | 3470.5 |
| 3480.5 | 88.9 | -0.3 | 5.13 | 0.10 | 5.13 | -0.02 | -0.444 | 0.029 | 0.010 | 4.20 | 3480.5 |
| 3490.5 | 89.7 | -0.2 | 5.13 | 0.02 | 5.13 | -0.02 | -0.444 | 0.023 | 0.010 | 4.16 | 3490.5 |
| 3500.5 | 90.6 | -0.2 | 5.13 | -0.05 | 5.13 | -0.02 | -0.444 | 0.016 | 0.010 | 4.15 | 3500.5 |
| 3510.5 | 91.4 | -0.2 | 5.14 | -0.13 | 5.14 | -0.02 | -0.444 | 0.010 | 0.010 | 4.17 | 3510.5 |
| 3520.5 | 92.3 | -0.2 | 5.14 | -0.21 | 5.14 | -0.02 | -0.444 | 0.003 | 0.010 | 4.22 | 3520.5 |
| 3530.5 | 93.1 | -0.2 | 5.15 | -0.28 | 5.14 | -0.01 | -0.443 | -0.003 | 0.010 | 4.30 | 3530.5 |
| 3540.5 | 94.0 | -0.1 | 5.15 | -0.36 | 5.14 | -0.01 | -0.443 | -0.010 | 0.010 | 4.41 | 3540.5 |
| 3550.5 | 94.8 | -0.1 | 5.15 | -0.43 | 5.13 | -0.01 | -0.442 | -0.016 | 0.010 | 4.53 | 3550.5 |
| 3560.5 | 95.7 | -0.1 | 5.16 | -0.51 | 5.13 | -0.01 | -0.442 | -0.023 | 0.010 | 4.67 | 3560.5 |
| 3570.5 | 96.5 | -0.1 | 5.16 | -0.59 | 5.13 | -0.01 | -0.441 | -0.029 | 0.010 | 4.83 | 3570.5 |
| 3580.5 | 97.4 | -0.1 | 5.16 | -0.66 | 5.12 | -0.01 | -0.440 | -0.036 | 0.010 | 4.99 | 3580.5 |
| 3590.5 | 98.2 | -0.0 | 5.17 | -0.74 | 5.11 | -0.00 | -0.440 | -0.042 | 0.010 | 5.15 | 3590.5 |
| 3600.5 | 99.1 | -0.0 | 5.17 | -0.81 | 5.11 | -0.00 | -0.439 | -0.048 | 0.010 | 5.31 | 3600.5 |
| 3610.5 | 99.9 | -0.0 | 5.17 | -0.89 | 5.10 | -0.00 | -0.437 | -0.055 | 0.010 | 5.46 | 3610.5 |
| 3620.5 | 100.7 | 0.0 | 5.18 | -0.96 | 5.09 | 0.00 | -0.436 | -0.061 | 0.010 | 5.61 | 3620.5 |
| 3630.5 | 101.6 | 0.0 | 5.18 | -1.04 | 5.08 | 0.00 | -0.435 | -0.067 | 0.010 | 5.74 | 3630.5 |
| 3640.5 | 102.4 | 0.1 | 5.19 | -1.11 | 5.06 | 0.00 | -0.434 | -0.074 | 0.010 | 5.86 | 3640.5 |
| 3650.5 | 103.2 | 0.1 | 5.19 | -1.19 | 5.05 | 0.01 | -0.432 | -0.080 | 0.010 | 5.97 | 3650.5 |
| 3660.5 | 104.1 | 0.1 | 5.19 | -1.26 | 5.04 | 0.01 | -0.431 | -0.086 | 0.010 | 6.06 | 3660.5 |
| 3670.5 | 104.9 | 0.1 | 5.20 | -1.34 | 5.02 | 0.01 | -0.429 | -0.092 | 0.010 | 6.13 | 3670.5 |
| 3680.5 | 105.7 | 0.1 | 5.20 | -1.41 | 5.01 | 0.01 | -0.428 | -0.098 | 0.010 | 6.18 | 3680.5 |
| 3690.5 | 106.6 | 0.1 | 5.20 | -1.48 | 4.99 | 0.01 | -0.426 | -0.105 | 0.010 | 6.21 | 3690.5 |
| 3700.5 | 107.4 | 0.2 | 5.21 | -1.56 | 4.97 | 0.02 | -0.424 | -0.111 | 0.010 | 6.22 | 3700.5 |
| 3710.5 | 108.2 | 0.2 | 5.21 | -1.63 | 4.95 | 0.02 | -0.422 | -0.117 | 0.010 | 6.22 | 3710.5 |
| 3720.5 | 109.1 | 0.2 | 5.21 | -1.70 | 4.93 | 0.02 | -0.420 | -0.123 | 0.010 | 6.19 | 3720.5 |
| 3730.5 | 109.9 | 0.2 | 5.22 | -1.77 | 4.91 | 0.02 | -0.418 | -0.129 | 0.010 | 6.14 | 3730.5 |
| 3740.5 | 110.7 | 0.2 | 5.22 | -1.85 | 4.88 | 0.02 | -0.416 | -0.135 | 0.010 | 6.07 | 3740.5 |
| 3750.5 | 111.5 | 0.3 | 5.23 | -1.92 | 4.86 | 0.02 | -0.413 | -0.140 | 0.010 | 5.99 | 3750.5 |
| 3760.5 | 112.3 | 0.3 | 5.23 | -1.99 | 4.84 | 0.03 | -0.411 | -0.146 | 0.010 | 5.89 | 3760.5 |
| 3770.5 | 113.2 | 0.3 | 5.23 | -2.06 | 4.81 | 0.03 | -0.409 | -0.152 | 0.010 | 5.77 | 3770.5 |
| 3780.5 | 114.0 | 0.3 | 5.24 | -2.13 | 4.78 | 0.03 | -0.406 | -0.158 | 0.010 | 5.64 | 3780.5 |
| 3790.5 | 114.8 | 0.3 | 5.24 | -2.20 | 4.76 | 0.03 | -0.404 | -0.164 | 0.010 | 5.50 | 3790.5 |
| 3800.5 | 115.6 | 0.4 | 5.24 | -2.27 | 4.73 | 0.03 | -0.401 | -0.169 | 0.010 | 5.35 | 3800.5 |
| 3810.5 | 116.4 | 0.4 | 5.25 | -2.34 | 4.70 | 0.03 | -0.398 | -0.175 | 0.010 | 5.20 | 3810.5 |
| 3820.5 | 117.3 | 0.4 | 5.25 | -2.40 | 4.67 | 0.04 | -0.395 | -0.180 | 0.010 | 5.04 | 3820.5 |
| 3830.5 | 118.1 | 0.4 | 5.25 | -2.47 | 4.64 | 0.04 | -0.392 | -0.186 | 0.010 | 4.89 | 3830.5 |
| 3840.5 | 118.9 | 0.4 | 5.26 | -2.54 | 4.60 | 0.04 | -0.389 | -0.191 | 0.009 | 4.74 | 3840.5 |
| 3850.5 | 119.7 | 0.4 | 5.26 | -2.61 | 4.57 | 0.04 | -0.386 | -0.197 | 0.009 | 4.61 | 3850.5 |
| 3860.5 | 120.5 | 0.5 | 5.26 | -2.67 | 4.54 | 0.04 | -0.383 | -0.202 | 0.009 | 4.50 | 3860.5 |
| 3870.5 | 121.3 | 0.5 | 5.27 | -2.74 | 4.50 | 0.04 | -0.380 | -0.208 | 0.009 | 4.40 | 3870.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3880.5 | 122.1 | 0.5 | 5.27 | -2.80 | 4.46 | 0.05 | -0.377 | -0.213 | 0.009 | 4.34 | 3880.5 |
| 3890.5 | 122.9 | 0.5 | 5.28 | -2.87 | 4.43 | 0.05 | -0.373 | -0.218 | 0.009 | 4.30 | 3890.5 |
| 3900.5 | 123.7 | 0.5 | 5.28 | -2.93 | 4.39 | 0.05 | -0.370 | -0.223 | 0.009 | 4.30 | 3900.5 |
| 3910.5 | 124.5 | 0.5 | 5.28 | -2.99 | 4.35 | 0.05 | -0.367 | -0.228 | 0.009 | 4.32 | 3910.5 |
| 3920.5 | 125.3 | 0.6 | 5.29 | -3.06 | 4.31 | 0.05 | -0.363 | -0.233 | 0.009 | 4.38 | 3920.5 |
| 3930.5 | 126.1 | 0.6 | 5.29 | -3.12 | 4.27 | 0.05 | -0.359 | -0.238 | 0.009 | 4.46 | 3930.5 |
| 3940.5 | 127.0 | 0.6 | 5.29 | -3.18 | 4.23 | 0.05 | -0.356 | -0.243 | 0.009 | 4.57 | 3940.5 |
| 3950.5 | 127.8 | 0.6 | 5.30 | -3.24 | 4.19 | 0.06 | -0.352 | -0.248 | 0.009 | 4.70 | 3950.5 |
| 3960.5 | 128.6 | 0.6 | 5.30 | -3.30 | 4.14 | 0.06 | -0.348 | -0.253 | 0.009 | 4.84 | 3960.5 |
| 3970.5 | 129.4 | 0.6 | 5.30 | -3.36 | 4.10 | 0.06 | -0.344 | -0.258 | 0.009 | 4.99 | 3970.5 |
| 3980.5 | 130.2 | 0.7 | 5.31 | -3.42 | 4.06 | 0.06 | -0.341 | -0.262 | 0.009 | 5.15 | 3980.5 |
| 3990.5 | 130.9 | 0.7 | 5.31 | -3.48 | 4.01 | 0.06 | -0.337 | -0.267 | 0.009 | 5.31 | 3990.5 |
| 4000.5 | 131.7 | 0.7 | 5.31 | -3.54 | 3.96 | 0.06 | -0.333 | -0.272 | 0.009 | 5.47 | 4000.5 |
| 4010.5 | 132.5 | 0.7 | 5.32 | -3.59 | 3.92 | 0.07 | -0.328 | -0.276 | 0.008 | 5.62 | 4010.5 |
| 4020.5 | 133.3 | 0.7 | 5.32 | -3.65 | 3.87 | 0.07 | -0.324 | -0.281 | 0.008 | 5.77 | 4020.5 |
| 4030.5 | 134.1 | 0.7 | 5.32 | -3.71 | 3.82 | 0.07 | -0.320 | -0.285 | 0.008 | 5.90 | 4030.5 |
| 4040.5 | 134.9 | 0.7 | 5.32 | -3.76 | 3.77 | 0.07 | -0.316 | -0.289 | 0.008 | 6.02 | 4040.5 |
| 4050.5 | 135.7 | 0.8 | 5.33 | -3.81 | 3.72 | 0.07 | -0.311 | -0.294 | 0.008 | 6.12 | 4050.5 |
| 4060.5 | 136.5 | 0.8 | 5.33 | -3.87 | 3.67 | 0.07 | -0.307 | -0.298 | 0.008 | 6.20 | 4060.5 |
| 4070.5 | 137.3 | 0.8 | 5.33 | -3.92 | 3.62 | 0.07 | -0.303 | -0.302 | 0.008 | 6.27 | 4070.5 |
| 4080.5 | 138.1 | 0.8 | 5.34 | -3.97 | 3.57 | 0.08 | -0.298 | -0.306 | 0.008 | 6.32 | 4080.5 |
| 4090.5 | 138.9 | 0.8 | 5.34 | -4.02 | 3.51 | 0.08 | -0.294 | -0.310 | 0.008 | 6.35 | 4090.5 |
| 4100.5 | 139.7 | 0.8 | 5.34 | -4.07 | 3.46 | 0.08 | -0.289 | -0.314 | 0.008 | 6.36 | 4100.5 |
| 4110.5 | 140.4 | 0.8 | 5.35 | -4.12 | 3.40 | 0.08 | -0.285 | -0.318 | 0.008 | 6.34 | 4110.5 |
| 4120.5 | 141.2 | 0.9 | 5.35 | -4.17 | 3.35 | 0.08 | -0.280 | -0.322 | 0.008 | 6.31 | 4120.5 |
| 4130.5 | 142.0 | 0.9 | 5.35 | -4.22 | 3.29 | 0.08 | -0.275 | -0.325 | 0.007 | 6.26 | 4130.5 |
| 4140.5 | 142.8 | 0.9 | 5.35 | -4.26 | 3.24 | 0.08 | -0.270 | -0.329 | 0.007 | 6.18 | 4140.5 |
| 4150.5 | 143.6 | 0.9 | 5.36 | -4.31 | 3.18 | 0.08 | -0.266 | -0.333 | 0.007 | 6.09 | 4150.5 |
| 4160.5 | 144.4 | 0.9 | 5.36 | -4.36 | 3.12 | 0.09 | -0.261 | -0.336 | 0.007 | 5.98 | 4160.5 |
| 4170.5 | 145.1 | 0.9 | 5.36 | -4.40 | 3.06 | 0.09 | -0.256 | -0.340 | 0.007 | 5.86 | 4170.5 |
| 4180.5 | 145.9 | 0.9 | 5.37 | -4.44 | 3.01 | 0.09 | -0.251 | -0.343 | 0.007 | 5.73 | 4180.5 |
| 4190.5 | 146.7 | 1.0 | 5.37 | -4.49 | 2.95 | 0.09 | -0.246 | -0.346 | 0.007 | 5.58 | 4190.5 |
| 4200.5 | 147.5 | 1.0 | 5.37 | -4.53 | 2.89 | 0.09 | -0.241 | -0.350 | 0.007 | 5.42 | 4200.5 |
| 4210.5 | 148.3 | 1.0 | 5.37 | -4.57 | 2.83 | 0.09 | -0.236 | -0.353 | 0.007 | 5.27 | 4210.5 |
| 4220.5 | 149.0 | 1.0 | 5.38 | -4.61 | 2.77 | 0.09 | -0.231 | -0.356 | 0.007 | 5.11 | 4220.5 |
| 4230.5 | 149.8 | 1.0 | 5.38 | -4.65 | 2.70 | 0.09 | -0.226 | -0.359 | 0.006 | 4.96 | 4230.5 |
| 4240.5 | 150.6 | 1.0 | 5.38 | -4.69 | 2.64 | 0.09 | -0.220 | -0.362 | 0.006 | 4.81 | 4240.5 |
| 4250.5 | 151.4 | 1.0 | 5.38 | -4.72 | 2.58 | 0.10 | -0.215 | -0.365 | 0.006 | 4.68 | 4250.5 |
| 4260.5 | 152.1 | 1.0 | 5.39 | -4.76 | 2.52 | 0.10 | -0.210 | -0.368 | 0.006 | 4.58 | 4260.5 |
| 4270.5 | 152.9 | 1.0 | 5.39 | -4.80 | 2.45 | 0.10 | -0.205 | -0.370 | 0.006 | 4.49 | 4270.5 |
| 4280.5 | 153.7 | 1.1 | 5.39 | -4.83 | 2.39 | 0.10 | -0.199 | -0.373 | 0.006 | 4.43 | 4280.5 |
| 4290.5 | 154.5 | 1.1 | 5.39 | -4.87 | 2.32 | 0.10 | -0.194 | -0.376 | 0.006 | 4.41 | 4290.5 |
| 4300.5 | 155.2 | 1.1 | 5.40 | -4.90 | 2.26 | 0.10 | -0.189 | -0.378 | 0.006 | 4.41 | 4300.5 |
| 4310.5 | 156.0 | 1.1 | 5.40 | -4.93 | 2.19 | 0.10 | -0.183 | -0.381 | 0.006 | 4.45 | 4310.5 |
| 4320.5 | 156.8 | 1.1 | 5.40 | -4.96 | 2.13 | 0.10 | -0.178 | -0.383 | 0.006 | 4.51 | 4320.5 |
| 4330.5 | 157.6 | 1.1 | 5.40 | -4.99 | 2.06 | 0.10 | -0.173 | -0.385 | 0.005 | 4.60 | 4330.5 |
| 4340.5 | 158.3 | 1.1 | 5.40 | -5.02 | 2.00 | 0.10 | -0.167 | -0.387 | 0.005 | 4.71 | 4340.5 |
| 4350.5 | 159.1 | 1.1 | 5.41 | -5.05 | 1.93 | 0.11 | -0.162 | -0.390 | 0.005 | 4.85 | 4350.5 |
| 4360.5 | 159.9 | 1.1 | 5.41 | -5.08 | 1.86 | 0.11 | -0.156 | -0.392 | 0.005 | 4.99 | 4360.5 |
| 4370.5 | 160.6 | 1.1 | 5.41 | -5.10 | 1.79 | 0.11 | -0.151 | -0.394 | 0.005 | 5.14 | 4370.5 |
| 4380.5 | 161.4 | 1.1 | 5.41 | -5.13 | 1.73 | 0.11 | -0.145 | -0.396 | 0.005 | 5.30 | 4380.5 |
| 4390.5 | 162.2 | 1.2 | 5.41 | -5.15 | 1.66 | 0.11 | -0.139 | -0.397 | 0.005 | 5.46 | 4390.5 |
| 4400.5 | 162.9 | 1.2 | 5.42 | -5.18 | 1.59 | 0.11 | -0.134 | -0.399 | 0.005 | 5.61 | 4400.5 |
| 4410.5 | 163.7 | 1.2 | 5.42 | -5.20 | 1.52 | 0.11 | -0.128 | -0.401 | 0.004 | 5.76 | 4410.5 |
| 4420.5 | 164.5 | 1.2 | 5.42 | -5.22 | 1.45 | 0.11 | -0.123 | -0.402 | 0.004 | 5.90 | 4420.5 |
| 4430.5 | 165.2 | 1.2 | 5.42 | -5.24 | 1.38 | 0.11 | -0.117 | -0.404 | 0.004 | 6.03 | 4430.5 |
| 4440.5 | 166.0 | 1.2 | 5.42 | -5.26 | 1.31 | 0.11 | -0.111 | -0.405 | 0.004 | 6.14 | 4440.5 |
| 4450.5 | 166.7 | 1.2 | 5.43 | -5.28 | 1.24 | 0.11 | -0.106 | -0.407 | 0.004 | 6.24 | 4450.5 |
| 4460.5 | 167.5 | 1.2 | 5.43 | -5.30 | 1.17 | 0.11 | -0.100 | -0.408 | 0.004 | 6.31 | 4460.5 |
| 4470.5 | 168.3 | 1.2 | 5.43 | -5.31 | 1.10 | 0.11 | -0.094 | -0.409 | 0.004 | 6.37 | 4470.5 |
| 4480.5 | 169.0 | 1.2 | 5.43 | -5.33 | 1.03 | 0.12 | -0.088 | -0.410 | 0.004 | 6.42 | 4480.5 |
| 4490.5 | 169.8 | 1.2 | 5.43 | -5.34 | 0.96 | 0.12 | -0.083 | -0.412 | 0.003 | 6.44 | 4490.5 |
| 4500.5 | 170.6 | 1.2 | 5.43 | -5.36 | 0.89 | 0.12 | -0.077 | -0.413 | 0.003 | 6.44 | 4500.5 |
| 4510.5 | 171.3 | 1.2 | 5.43 | -5.37 | 0.82 | 0.12 | -0.071 | -0.413 | 0.003 | 6.41 | 4510.5 |
| 4520.5 | 172.1 | 1.2 | 5.44 | -5.38 | 0.75 | 0.12 | -0.065 | -0.414 | 0.003 | 6.37 | 4520.5 |
| 4530.5 | 172.8 | 1.2 | 5.44 | -5.39 | 0.68 | 0.12 | -0.060 | -0.415 | 0.003 | 6.31 | 4530.5 |
| 4540.5 | 173.6 | 1.3 | 5.44 | -5.40 | 0.61 | 0.12 | -0.054 | -0.416 | 0.003 | 6.23 | 4540.5 |
| 4550.5 | 174.4 | 1.3 | 5.44 | -5.41 | 0.53 | 0.12 | -0.048 | -0.416 | 0.003 | 6.12 | 4550.5 |
| 4560.5 | 175.1 | 1.3 | 5.44 | -5.42 | 0.46 | 0.12 | -0.042 | -0.417 | 0.003 | 6.01 | 4560.5 |
| 4570.5 | 175.9 | 1.3 | 5.44 | -5.43 | 0.39 | 0.12 | -0.036 | -0.417 | 0.002 | 5.87 | 4570.5 |
| 4580.5 | 176.6 | 1.3 | 5.44 | -5.43 | 0.32 | 0.12 | -0.031 | -0.418 | 0.002 | 5.73 | 4580.5 |
| 4590.5 | 177.4 | 1.3 | 5.44 | -5.44 | 0.25 | 0.12 | -0.025 | -0.418 | 0.002 | 5.58 | 4590.5 |
| 4600.5 | 178.2 | 1.3 | 5.44 | -5.44 | 0.18 | 0.12 | -0.019 | -0.418 | 0.002 | 5.42 | 4600.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | HELIOCENTRIC ECLIPTIC POSITION RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 4610.5 | 178.9 | 1.3 | 5.45 | -5.44 | 0.10 | 0.12 | -0.013 | -0.418 | 0.002 | 5.26 | 4610.5 |
| 4620.5 | 179.7 | 1.3 | 5.45 | -5.45 | 0.03 | 0.12 | -0.007 | -0.418 | 0.002 | 5.10 | 4620.5 |
| 4630.5 | 180.4 | 1.3 | 5.45 | -5.45 | -0.04 | 0.12 | -0.002 | -0.418 | 0.002 | 4.95 | 4630.5 |
| 4640.5 | 181.2 | 1.3 | 5.45 | -5.45 | -0.11 | 0.12 | 0.004 | -0.418 | 0.002 | 4.81 | 4640.5 |
| 4650.5 | 181.9 | 1.3 | 5.45 | -5.44 | -0.18 | 0.12 | 0.010 | -0.418 | 0.001 | 4.69 | 4650.5 |
| 4660.5 | 182.7 | 1.3 | 5.45 | -5.44 | -0.26 | 0.12 | 0.016 | -0.418 | 0.001 | 4.59 | 4660.5 |
| 4670.5 | 183.5 | 1.3 | 5.45 | -5.44 | -0.33 | 0.12 | 0.021 | -0.418 | 0.001 | 4.51 | 4670.5 |
| 4680.5 | 184.2 | 1.3 | 5.45 | -5.44 | -0.40 | 0.12 | 0.027 | -0.417 | 0.001 | 4.47 | 4680.5 |
| 4690.5 | 185.0 | 1.3 | 5.45 | -5.43 | -0.47 | 0.12 | 0.033 | -0.417 | 0.001 | 4.45 | 4690.5 |
| 4700.5 | 185.7 | 1.3 | 5.45 | -5.42 | -0.54 | 0.12 | 0.039 | -0.416 | 0.001 | 4.47 | 4700.5 |
| 4710.5 | 186.5 | 1.3 | 5.45 | -5.42 | -0.62 | 0.12 | 0.045 | -0.416 | 0.001 | 4.52 | 4710.5 |
| 4720.5 | 187.2 | 1.3 | 5.45 | -5.41 | -0.69 | 0.12 | 0.050 | -0.415 | 0.001 | 4.59 | 4720.5 |
| 4730.5 | 188.0 | 1.3 | 5.45 | -5.40 | -0.76 | 0.12 | 0.056 | -0.414 | 0.000 | 4.69 | 4730.5 |
| 4740.5 | 188.7 | 1.3 | 5.45 | -5.39 | -0.83 | 0.12 | 0.062 | -0.413 | 0.000 | 4.81 | 4740.5 |
| 4750.5 | 189.5 | 1.3 | 5.45 | -5.38 | -0.90 | 0.12 | 0.067 | -0.412 | 0.000 | 4.94 | 4750.5 |
| 4760.5 | 190.3 | 1.3 | 5.45 | -5.37 | -0.97 | 0.12 | 0.073 | -0.411 | -0.000 | 5.08 | 4760.5 |
| 4770.5 | 191.0 | 1.3 | 5.45 | -5.35 | -1.04 | 0.12 | 0.079 | -0.410 | -0.000 | 5.24 | 4770.5 |
| 4780.5 | 191.8 | 1.3 | 5.45 | -5.34 | -1.11 | 0.12 | 0.085 | -0.409 | -0.000 | 5.39 | 4780.5 |
| 4790.5 | 192.5 | 1.3 | 5.45 | -5.32 | -1.18 | 0.12 | 0.090 | -0.408 | -0.000 | 5.55 | 4790.5 |
| 4800.5 | 193.3 | 1.3 | 5.45 | -5.31 | -1.25 | 0.12 | 0.096 | -0.407 | -0.001 | 5.70 | 4800.5 |
| 4810.5 | 194.0 | 1.3 | 5.45 | -5.29 | -1.32 | 0.12 | 0.101 | -0.405 | -0.001 | 5.84 | 4810.5 |
| 4820.5 | 194.8 | 1.3 | 5.45 | -5.27 | -1.39 | 0.12 | 0.107 | -0.404 | -0.001 | 5.97 | 4820.5 |
| 4830.5 | 195.5 | 1.3 | 5.45 | -5.25 | -1.46 | 0.12 | 0.113 | -0.402 | -0.001 | 6.09 | 4830.5 |
| 4840.5 | 196.3 | 1.3 | 5.45 | -5.23 | -1.53 | 0.12 | 0.118 | -0.401 | -0.001 | 6.20 | 4840.5 |
| 4850.5 | 197.1 | 1.3 | 5.45 | -5.21 | -1.60 | 0.12 | 0.124 | -0.399 | -0.001 | 6.29 | 4850.5 |
| 4860.5 | 197.8 | 1.3 | 5.45 | -5.19 | -1.67 | 0.12 | 0.129 | -0.397 | -0.001 | 6.36 | 4860.5 |
| 4870.5 | 198.6 | 1.3 | 5.45 | -5.17 | -1.74 | 0.12 | 0.135 | -0.396 | -0.001 | 6.41 | 4870.5 |
| 4880.5 | 199.3 | 1.3 | 5.45 | -5.15 | -1.80 | 0.12 | 0.140 | -0.394 | -0.002 | 6.44 | 4880.5 |
| 4890.5 | 200.1 | 1.3 | 5.45 | -5.12 | -1.87 | 0.12 | 0.146 | -0.392 | -0.002 | 6.45 | 4890.5 |
| 4900.5 | 200.8 | 1.3 | 5.45 | -5.10 | -1.94 | 0.12 | 0.151 | -0.390 | -0.002 | 6.44 | 4900.5 |
| 4910.5 | 201.6 | 1.3 | 5.45 | -5.07 | -2.01 | 0.12 | 0.157 | -0.388 | -0.002 | 6.41 | 4910.5 |
| 4920.5 | 202.3 | 1.3 | 5.45 | -5.04 | -2.07 | 0.12 | 0.162 | -0.385 | -0.002 | 6.35 | 4920.5 |
| 4930.5 | 203.1 | 1.3 | 5.45 | -5.01 | -2.14 | 0.12 | 0.167 | -0.383 | -0.002 | 6.28 | 4930.5 |
| 4940.5 | 203.9 | 1.3 | 5.45 | -4.98 | -2.20 | 0.12 | 0.173 | -0.381 | -0.002 | 6.18 | 4940.5 |
| 4950.5 | 204.6 | 1.3 | 5.45 | -4.95 | -2.27 | 0.12 | 0.178 | -0.379 | -0.002 | 6.07 | 4950.5 |
| 4960.5 | 205.4 | 1.3 | 5.45 | -4.92 | -2.33 | 0.12 | 0.183 | -0.376 | -0.003 | 5.94 | 4960.5 |
| 4970.5 | 206.1 | 1.3 | 5.45 | -4.89 | -2.40 | 0.12 | 0.188 | -0.374 | -0.003 | 5.80 | 4970.5 |
| 4980.5 | 206.9 | 1.2 | 5.45 | -4.86 | -2.46 | 0.12 | 0.193 | -0.371 | -0.003 | 5.65 | 4980.5 |
| 4990.5 | 207.6 | 1.2 | 5.45 | -4.82 | -2.53 | 0.12 | 0.199 | -0.368 | -0.003 | 5.49 | 4990.5 |
| 5000.5 | 208.4 | 1.2 | 5.45 | -4.79 | -2.59 | 0.12 | 0.204 | -0.366 | -0.003 | 5.33 | 5000.5 |
| 5010.5 | 209.2 | 1.2 | 5.44 | -4.75 | -2.65 | 0.12 | 0.209 | -0.363 | -0.003 | 5.17 | 5010.5 |
| 5020.5 | 209.9 | 1.2 | 5.44 | -4.72 | -2.71 | 0.12 | 0.214 | -0.360 | -0.003 | 5.01 | 5020.5 |
| 5030.5 | 210.7 | 1.2 | 5.44 | -4.68 | -2.78 | 0.12 | 0.219 | -0.357 | -0.004 | 4.87 | 5030.5 |
| 5040.5 | 211.4 | 1.2 | 5.44 | -4.64 | -2.84 | 0.12 | 0.224 | -0.354 | -0.004 | 4.73 | 5040.5 |
| 5050.5 | 212.2 | 1.2 | 5.44 | -4.60 | -2.90 | 0.11 | 0.229 | -0.351 | -0.004 | 4.62 | 5050.5 |
| 5060.5 | 212.9 | 1.2 | 5.44 | -4.56 | -2.96 | 0.11 | 0.234 | -0.348 | -0.004 | 4.53 | 5060.5 |
| 5070.5 | 213.7 | 1.2 | 5.44 | -4.52 | -3.02 | 0.11 | 0.239 | -0.345 | -0.004 | 4.47 | 5070.5 |
| 5080.5 | 214.5 | 1.2 | 5.44 | -4.48 | -3.08 | 0.11 | 0.243 | -0.341 | -0.004 | 4.44 | 5080.5 |
| 5090.5 | 215.2 | 1.2 | 5.44 | -4.44 | -3.13 | 0.11 | 0.248 | -0.338 | -0.004 | 4.43 | 5090.5 |
| 5100.5 | 216.0 | 1.2 | 5.43 | -4.40 | -3.19 | 0.11 | 0.253 | -0.335 | -0.004 | 4.46 | 5100.5 |
| 5110.5 | 216.8 | 1.2 | 5.43 | -4.35 | -3.25 | 0.11 | 0.258 | -0.331 | -0.004 | 4.51 | 5110.5 |
| 5120.5 | 217.5 | 1.2 | 5.43 | -4.31 | -3.31 | 0.11 | 0.262 | -0.328 | -0.005 | 4.60 | 5120.5 |
| 5130.5 | 218.3 | 1.1 | 5.43 | -4.26 | -3.36 | 0.11 | 0.267 | -0.324 | -0.005 | 4.70 | 5130.5 |
| 5140.5 | 219.0 | 1.1 | 5.43 | -4.22 | -3.42 | 0.11 | 0.271 | -0.320 | -0.005 | 4.82 | 5140.5 |
| 5150.5 | 219.8 | 1.1 | 5.43 | -4.17 | -3.47 | 0.11 | 0.276 | -0.317 | -0.005 | 4.96 | 5150.5 |
| 5160.5 | 220.6 | 1.1 | 5.42 | -4.12 | -3.53 | 0.11 | 0.280 | -0.313 | -0.005 | 5.10 | 5160.5 |
| 5170.5 | 221.3 | 1.1 | 5.42 | -4.07 | -3.58 | 0.11 | 0.285 | -0.309 | -0.005 | 5.26 | 5170.5 |
| 5180.5 | 222.1 | 1.1 | 5.42 | -4.02 | -3.63 | 0.10 | 0.289 | -0.305 | -0.005 | 5.41 | 5180.5 |
| 5190.5 | 222.9 | 1.1 | 5.42 | -3.97 | -3.69 | 0.10 | 0.294 | -0.301 | -0.005 | 5.56 | 5190.5 |
| 5200.5 | 223.6 | 1.1 | 5.42 | -3.92 | -3.74 | 0.10 | 0.298 | -0.297 | -0.006 | 5.71 | 5200.5 |
| 5210.5 | 224.4 | 1.1 | 5.42 | -3.87 | -3.79 | 0.10 | 0.302 | -0.293 | -0.006 | 5.85 | 5210.5 |
| 5220.5 | 225.2 | 1.1 | 5.41 | -3.82 | -3.84 | 0.10 | 0.306 | -0.289 | -0.006 | 5.97 | 5220.5 |
| 5230.5 | 225.9 | 1.1 | 5.41 | -3.76 | -3.89 | 0.10 | 0.310 | -0.285 | -0.006 | 6.09 | 5230.5 |
| 5240.5 | 226.7 | 1.0 | 5.41 | -3.71 | -3.94 | 0.10 | 0.314 | -0.281 | -0.006 | 6.19 | 5240.5 |
| 5250.5 | 227.5 | 1.0 | 5.41 | -3.66 | -3.98 | 0.10 | 0.318 | -0.276 | -0.006 | 6.27 | 5250.5 |
| 5260.5 | 228.2 | 1.0 | 5.41 | -3.60 | -4.03 | 0.10 | 0.322 | -0.272 | -0.006 | 6.33 | 5260.5 |
| 5270.5 | 229.0 | 1.0 | 5.40 | -3.55 | -4.08 | 0.10 | 0.326 | -0.268 | -0.006 | 6.37 | 5270.5 |
| 5280.5 | 229.8 | 1.0 | 5.40 | -3.49 | -4.12 | 0.09 | 0.330 | -0.263 | -0.006 | 6.39 | 5280.5 |
| 5290.5 | 230.5 | 1.0 | 5.40 | -3.43 | -4.17 | 0.09 | 0.334 | -0.259 | -0.006 | 6.39 | 5290.5 |
| 5300.5 | 231.3 | 1.0 | 5.40 | -3.37 | -4.21 | 0.09 | 0.338 | -0.254 | -0.007 | 6.36 | 5300.5 |
| 5310.5 | 232.1 | 1.0 | 5.40 | -3.32 | -4.26 | 0.09 | 0.341 | -0.249 | -0.007 | 6.32 | 5310.5 |
| 5320.5 | 232.8 | 1.0 | 5.39 | -3.26 | -4.30 | 0.09 | 0.345 | -0.245 | -0.007 | 6.25 | 5320.5 |
| 5330.5 | 233.6 | 0.9 | 5.39 | -3.20 | -4.34 | 0.09 | 0.348 | -0.240 | -0.007 | 6.17 | 5330.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 5340.5 | 234.4 | 0.9 | 5.39 | -3.14 | -4.38 | 0.09 | 0.352 | -0.235 | -0.007 | 6.06 | 5340.5 |
| 5350.5 | 235.2 | 0.9 | 5.39 | -3.08 | -4.42 | 0.09 | 0.355 | -0.230 | -0.007 | 5.94 | 5350.5 |
| 5360.5 | 235.9 | 0.9 | 5.38 | -3.01 | -4.46 | 0.09 | 0.359 | -0.225 | -0.007 | 5.81 | 5360.5 |
| 5370.5 | 236.7 | 0.9 | 5.38 | -2.95 | -4.50 | 0.08 | 0.362 | -0.220 | -0.007 | 5.66 | 5370.5 |
| 5380.5 | 237.5 | 0.9 | 5.38 | -2.89 | -4.54 | 0.08 | 0.365 | -0.215 | -0.007 | 5.51 | 5380.5 |
| 5390.5 | 238.3 | 0.9 | 5.38 | -2.83 | -4.57 | 0.08 | 0.368 | -0.210 | -0.007 | 5.34 | 5390.5 |
| 5400.5 | 239.0 | 0.9 | 5.37 | -2.76 | -4.61 | 0.08 | 0.371 | -0.205 | -0.008 | 5.18 | 5400.5 |
| 5410.5 | 239.8 | 0.8 | 5.37 | -2.70 | -4.64 | 0.08 | 0.375 | -0.200 | -0.008 | 5.02 | 5410.5 |
| 5420.5 | 240.6 | 0.8 | 5.37 | -2.63 | -4.68 | 0.08 | 0.377 | -0.195 | -0.008 | 4.87 | 5420.5 |
| 5430.5 | 241.4 | 0.8 | 5.37 | -2.57 | -4.71 | 0.08 | 0.380 | -0.190 | -0.008 | 4.73 | 5430.5 |
| 5440.5 | 242.2 | 0.8 | 5.36 | -2.50 | -4.74 | 0.07 | 0.383 | -0.184 | -0.008 | 4.60 | 5440.5 |
| 5450.5 | 242.9 | 0.8 | 5.36 | -2.44 | -4.77 | 0.07 | 0.386 | -0.179 | -0.008 | 4.50 | 5450.5 |
| 5460.5 | 243.7 | 0.8 | 5.36 | -2.37 | -4.80 | 0.07 | 0.389 | -0.174 | -0.008 | 4.42 | 5460.5 |
| 5470.5 | 244.5 | 0.8 | 5.35 | -2.30 | -4.83 | 0.07 | 0.391 | -0.168 | -0.008 | 4.36 | 5470.5 |
| 5480.5 | 245.3 | 0.7 | 5.35 | -2.24 | -4.86 | 0.07 | 0.394 | -0.163 | -0.008 | 4.34 | 5480.5 |
| 5490.5 | 246.1 | 0.7 | 5.35 | -2.17 | -4.89 | 0.07 | 0.396 | -0.157 | -0.008 | 4.34 | 5490.5 |
| 5500.5 | 246.9 | 0.7 | 5.35 | -2.10 | -4.92 | 0.07 | 0.399 | -0.152 | -0.008 | 4.38 | 5500.5 |
| 5510.5 | 247.7 | 0.7 | 5.34 | -2.03 | -4.94 | 0.07 | 0.401 | -0.146 | -0.008 | 4.44 | 5510.5 |
| 5520.5 | 248.4 | 0.7 | 5.34 | -1.96 | -4.97 | 0.06 | 0.403 | -0.141 | -0.008 | 4.53 | 5520.5 |
| 5530.5 | 249.2 | 0.7 | 5.34 | -1.89 | -4.99 | 0.06 | 0.405 | -0.135 | -0.009 | 4.64 | 5530.5 |
| 5540.5 | 250.0 | 0.7 | 5.33 | -1.82 | -5.01 | 0.06 | 0.408 | -0.129 | -0.009 | 4.76 | 5540.5 |
| 5550.5 | 250.8 | 0.6 | 5.33 | -1.75 | -5.03 | 0.06 | 0.410 | -0.124 | -0.009 | 4.90 | 5550.5 |
| 5560.5 | 251.6 | 0.6 | 5.33 | -1.68 | -5.05 | 0.06 | 0.412 | -0.118 | -0.009 | 5.05 | 5560.5 |
| 5570.5 | 252.4 | 0.6 | 5.32 | -1.61 | -5.07 | 0.06 | 0.413 | -0.112 | -0.009 | 5.20 | 5570.5 |
| 5580.5 | 253.2 | 0.6 | 5.32 | -1.54 | -5.09 | 0.05 | 0.415 | -0.106 | -0.009 | 5.35 | 5580.5 |
| 5590.5 | 254.0 | 0.6 | 5.32 | -1.47 | -5.11 | 0.05 | 0.417 | -0.101 | -0.009 | 5.50 | 5590.5 |
| 5600.5 | 254.8 | 0.6 | 5.31 | -1.40 | -5.13 | 0.05 | 0.419 | -0.095 | -0.009 | 5.64 | 5600.5 |
| 5610.5 | 255.6 | 0.5 | 5.31 | -1.32 | -5.14 | 0.05 | 0.420 | -0.089 | -0.009 | 5.78 | 5610.5 |
| 5620.5 | 256.4 | 0.5 | 5.31 | -1.25 | -5.16 | 0.05 | 0.422 | -0.083 | -0.009 | 5.90 | 5620.5 |
| 5630.5 | 257.2 | 0.5 | 5.31 | -1.18 | -5.17 | 0.05 | 0.423 | -0.077 | -0.009 | 6.01 | 5630.5 |
| 5640.5 | 258.0 | 0.5 | 5.30 | -1.11 | -5.18 | 0.05 | 0.424 | -0.071 | -0.009 | 6.10 | 5640.5 |
| 5650.5 | 258.8 | 0.5 | 5.30 | -1.03 | -5.20 | 0.04 | 0.426 | -0.065 | -0.009 | 6.17 | 5650.5 |
| 5660.5 | 259.6 | 0.5 | 5.30 | -0.96 | -5.21 | 0.04 | 0.427 | -0.059 | -0.009 | 6.23 | 5660.5 |
| 5670.5 | 260.4 | 0.4 | 5.29 | -0.89 | -5.22 | 0.04 | 0.428 | -0.053 | -0.009 | 6.26 | 5670.5 |
| 5680.5 | 261.2 | 0.4 | 5.29 | -0.81 | -5.23 | 0.04 | 0.429 | -0.047 | -0.009 | 6.27 | 5680.5 |
| 5690.5 | 262.0 | 0.4 | 5.28 | -0.74 | -5.23 | 0.04 | 0.430 | -0.041 | -0.009 | 6.26 | 5690.5 |
| 5700.5 | 262.8 | 0.4 | 5.28 | -0.66 | -5.24 | 0.04 | 0.431 | -0.035 | -0.010 | 6.23 | 5700.5 |
| 5710.5 | 263.6 | 0.4 | 5.28 | -0.59 | -5.24 | 0.03 | 0.431 | -0.028 | -0.010 | 6.18 | 5710.5 |
| 5720.5 | 264.4 | 0.4 | 5.27 | -0.52 | -5.25 | 0.03 | 0.432 | -0.022 | -0.010 | 6.10 | 5720.5 |
| 5730.5 | 265.2 | 0.3 | 5.27 | -0.44 | -5.25 | 0.03 | 0.432 | -0.016 | -0.010 | 6.01 | 5730.5 |
| 5740.5 | 266.0 | 0.3 | 5.27 | -0.37 | -5.25 | 0.03 | 0.433 | -0.010 | -0.010 | 5.90 | 5740.5 |
| 5750.5 | 266.8 | 0.3 | 5.26 | -0.29 | -5.26 | 0.03 | 0.433 | -0.004 | -0.010 | 5.78 | 5750.5 |
| 5760.5 | 267.6 | 0.3 | 5.26 | -0.22 | -5.26 | 0.03 | 0.434 | 0.002 | -0.010 | 5.64 | 5760.5 |
| 5770.5 | 268.4 | 0.3 | 5.26 | -0.14 | -5.26 | 0.02 | 0.434 | 0.009 | -0.010 | 5.49 | 5770.5 |
| 5780.5 | 269.2 | 0.2 | 5.25 | -0.07 | -5.25 | 0.02 | 0.434 | 0.015 | -0.010 | 5.33 | 5780.5 |
| 5790.5 | 270.1 | 0.2 | 5.25 | 0.01 | -5.25 | 0.02 | 0.434 | 0.021 | -0.010 | 5.17 | 5790.5 |
| 5800.5 | 270.9 | 0.2 | 5.25 | 0.08 | -5.25 | 0.02 | 0.434 | 0.027 | -0.010 | 5.01 | 5800.5 |
| 5810.5 | 271.7 | 0.2 | 5.24 | 0.16 | -5.24 | 0.02 | 0.434 | 0.034 | -0.010 | 4.85 | 5810.5 |
| 5820.5 | 272.5 | 0.2 | 5.24 | 0.23 | -5.23 | 0.02 | 0.434 | 0.040 | -0.010 | 4.70 | 5820.5 |
| 5830.5 | 273.3 | 0.2 | 5.24 | 0.30 | -5.23 | 0.01 | 0.433 | 0.046 | -0.010 | 4.57 | 5830.5 |
| 5840.5 | 274.2 | 0.1 | 5.23 | 0.38 | -5.22 | 0.01 | 0.433 | 0.052 | -0.010 | 4.45 | 5840.5 |
| 5850.5 | 275.0 | 0.1 | 5.23 | 0.45 | -5.21 | 0.01 | 0.432 | 0.059 | -0.010 | 4.35 | 5850.5 |
| 5860.5 | 275.8 | 0.1 | 5.22 | 0.53 | -5.20 | 0.01 | 0.432 | 0.065 | -0.010 | 4.27 | 5860.5 |
| 5870.5 | 276.6 | 0.1 | 5.22 | 0.60 | -5.19 | 0.01 | 0.431 | 0.071 | -0.010 | 4.22 | 5870.5 |
| 5880.5 | 277.4 | 0.1 | 5.22 | 0.68 | -5.17 | 0.01 | 0.430 | 0.078 | -0.010 | 4.20 | 5880.5 |
| 5890.5 | 278.3 | 0.0 | 5.21 | 0.75 | -5.16 | 0.00 | 0.429 | 0.084 | -0.010 | 4.21 | 5890.5 |
| 5900.5 | 279.1 | 0.0 | 5.21 | 0.82 | -5.14 | 0.00 | 0.429 | 0.090 | -0.010 | 4.25 | 5900.5 |
| 5910.5 | 279.9 | 0.0 | 5.21 | 0.90 | -5.13 | 0.00 | 0.427 | 0.096 | -0.010 | 4.31 | 5910.5 |
| 5920.5 | 280.8 | -0.0 | 5.20 | 0.97 | -5.11 | -0.00 | 0.426 | 0.103 | -0.010 | 4.40 | 5920.5 |
| 5930.5 | 281.6 | -0.0 | 5.20 | 1.04 | -5.09 | -0.00 | 0.425 | 0.109 | -0.010 | 4.51 | 5930.5 |
| 5940.5 | 282.4 | -0.1 | 5.20 | 1.12 | -5.07 | -0.00 | 0.424 | 0.115 | -0.010 | 4.64 | 5940.5 |
| 5950.5 | 283.2 | -0.1 | 5.19 | 1.19 | -5.05 | -0.01 | 0.422 | 0.121 | -0.010 | 4.78 | 5950.5 |
| 5960.5 | 284.1 | -0.1 | 5.19 | 1.26 | -5.03 | -0.01 | 0.421 | 0.128 | -0.010 | 4.93 | 5960.5 |
| 5970.5 | 284.9 | -0.1 | 5.18 | 1.33 | -5.01 | -0.01 | 0.419 | 0.134 | -0.010 | 5.08 | 5970.5 |
| 5980.5 | 285.8 | -0.1 | 5.18 | 1.41 | -4.99 | -0.01 | 0.418 | 0.140 | -0.010 | 5.24 | 5980.5 |
| 5990.5 | 286.6 | -0.1 | 5.18 | 1.48 | -4.96 | -0.01 | 0.416 | 0.146 | -0.010 | 5.39 | 5990.5 |
| 6000.5 | 287.4 | -0.2 | 5.17 | 1.55 | -4.94 | -0.02 | 0.414 | 0.152 | -0.010 | 5.53 | 6000.5 |
| 6010.5 | 288.3 | -0.2 | 5.17 | 1.62 | -4.91 | -0.02 | 0.412 | 0.158 | -0.010 | 5.66 | 6010.5 |
| 6020.5 | 289.1 | -0.2 | 5.17 | 1.69 | -4.88 | -0.02 | 0.410 | 0.164 | -0.010 | 5.78 | 6020.5 |
| 6030.5 | 289.9 | -0.2 | 5.16 | 1.76 | -4.85 | -0.02 | 0.408 | 0.171 | -0.010 | 5.89 | 6030.5 |
| 6040.5 | 290.8 | -0.2 | 5.16 | 1.83 | -4.82 | -0.02 | 0.405 | 0.177 | -0.010 | 5.97 | 6040.5 |
| 6050.5 | 291.6 | -0.3 | 5.16 | 1.90 | -4.79 | -0.02 | 0.403 | 0.183 | -0.010 | 6.04 | 6050.5 |
| 6060.5 | 292.5 | -0.3 | 5.15 | 1.97 | -4.76 | -0.03 | 0.401 | 0.189 | -0.010 | 6.09 | 6060.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 6070.5 | 293.3 | -0.3 | 5.15 | 2.04 | -4.73 | -0.03 | 0.398 | 0.195 | -0.010 | 6.12 | 244 6070.5 |
| 6080.5 | 294.2 | -0.3 | 5.14 | 2.11 | -4.69 | -0.03 | 0.395 | 0.201 | -0.010 | 6.13 | 6080.5 |
| 6090.5 | 295.0 | -0.3 | 5.14 | 2.17 | -4.66 | -0.03 | 0.393 | 0.206 | -0.010 | 6.11 | 6090.5 |
| 6100.5 | 295.9 | -0.4 | 5.14 | 2.24 | -4.62 | -0.03 | 0.390 | 0.212 | -0.010 | 6.08 | 6100.5 |
| 6110.5 | 296.7 | -0.4 | 5.13 | 2.31 | -4.59 | -0.03 | 0.387 | 0.218 | -0.010 | 6.02 | 6110.5 |
| 6120.5 | 297.6 | -0.4 | 5.13 | 2.38 | -4.55 | -0.04 | 0.384 | 0.224 | -0.010 | 5.95 | 6120.5 |
| 6130.5 | 298.4 | -0.4 | 5.13 | 2.44 | -4.51 | -0.04 | 0.381 | 0.230 | -0.009 | 5.85 | 6130.5 |
| 6140.5 | 299.3 | -0.4 | 5.12 | 2.51 | -4.47 | -0.04 | 0.378 | 0.236 | -0.009 | 5.74 | 6140.5 |
| 6150.5 | 300.1 | -0.4 | 5.12 | 2.57 | -4.43 | -0.04 | 0.375 | 0.241 | -0.009 | 5.62 | 6150.5 |
| 6160.5 | 301.0 | -0.5 | 5.12 | 2.64 | -4.39 | -0.04 | 0.371 | 0.247 | -0.009 | 5.48 | 6160.5 |
| 6170.5 | 301.9 | -0.5 | 5.11 | 2.70 | -4.34 | -0.04 | 0.368 | 0.253 | -0.009 | 5.34 | 6170.5 |
| 6180.5 | 302.7 | -0.5 | 5.11 | 2.76 | -4.30 | -0.04 | 0.364 | 0.258 | -0.009 | 5.18 | 6180.5 |
| 6190.5 | 303.6 | -0.5 | 5.11 | 2.82 | -4.25 | -0.05 | 0.361 | 0.264 | -0.009 | 5.02 | 6190.5 |
| 6200.5 | 304.4 | -0.5 | 5.10 | 2.89 | -4.21 | -0.05 | 0.357 | 0.269 | -0.009 | 4.86 | 6200.5 |
| 6210.5 | 305.3 | -0.6 | 5.10 | 2.95 | -4.16 | -0.05 | 0.353 | 0.275 | -0.009 | 4.71 | 6210.5 |
| 6220.5 | 306.2 | -0.6 | 5.10 | 3.01 | -4.11 | -0.05 | 0.349 | 0.280 | -0.009 | 4.56 | 6220.5 |
| 6230.5 | 307.0 | -0.6 | 5.09 | 3.07 | -4.06 | -0.05 | 0.345 | 0.285 | -0.009 | 4.43 | 6230.5 |
| 6240.5 | 307.9 | -0.6 | 5.09 | 3.13 | -4.02 | -0.05 | 0.341 | 0.290 | -0.009 | 4.31 | 6240.5 |
| 6250.5 | 308.8 | -0.6 | 5.09 | 3.18 | -3.96 | -0.06 | 0.337 | 0.296 | -0.009 | 4.21 | 6250.5 |
| 6260.5 | 309.6 | -0.6 | 5.08 | 3.24 | -3.91 | -0.06 | 0.333 | 0.301 | -0.009 | 4.13 | 6260.5 |
| 6270.5 | 310.5 | -0.7 | 5.08 | 3.30 | -3.86 | -0.06 | 0.329 | 0.306 | -0.009 | 4.08 | 6270.5 |
| 6280.5 | 311.4 | -0.7 | 5.08 | 3.36 | -3.81 | -0.06 | 0.324 | 0.311 | -0.009 | 4.06 | 6280.5 |
| 6290.5 | 312.3 | -0.7 | 5.07 | 3.41 | -3.75 | -0.06 | 0.320 | 0.316 | -0.008 | 4.07 | 6290.5 |
| 6300.5 | 313.1 | -0.7 | 5.07 | 3.47 | -3.70 | -0.06 | 0.315 | 0.321 | -0.008 | 4.11 | 6300.5 |
| 6310.5 | 314.0 | -0.7 | 5.07 | 3.52 | -3.64 | -0.06 | 0.311 | 0.326 | -0.008 | 4.17 | 6310.5 |
| 6320.5 | 314.9 | -0.7 | 5.06 | 3.57 | -3.59 | -0.07 | 0.306 | 0.331 | -0.008 | 4.26 | 6320.5 |
| 6330.5 | 315.8 | -0.8 | 5.06 | 3.62 | -3.53 | -0.07 | 0.301 | 0.335 | -0.008 | 4.38 | 6330.5 |
| 6340.5 | 316.6 | -0.8 | 5.06 | 3.68 | -3.47 | -0.07 | 0.296 | 0.340 | -0.008 | 4.50 | 6340.5 |
| 6350.5 | 317.5 | -0.8 | 5.05 | 3.73 | -3.41 | -0.07 | 0.291 | 0.345 | -0.008 | 4.65 | 6350.5 |
| 6360.5 | 318.4 | -0.8 | 5.05 | 3.78 | -3.35 | -0.07 | 0.286 | 0.349 | -0.008 | 4.80 | 6360.5 |
| 6370.5 | 319.3 | -0.8 | 5.05 | 3.83 | -3.29 | -0.07 | 0.281 | 0.354 | -0.008 | 4.95 | 6370.5 |
| 6380.5 | 320.2 | -0.8 | 5.04 | 3.87 | -3.23 | -0.07 | 0.276 | 0.358 | -0.008 | 5.11 | 6380.5 |
| 6390.5 | 321.0 | -0.9 | 5.04 | 3.92 | -3.17 | -0.08 | 0.271 | 0.362 | -0.008 | 5.26 | 6390.5 |
| 6400.5 | 321.9 | -0.9 | 5.04 | 3.97 | -3.11 | -0.08 | 0.266 | 0.366 | -0.007 | 5.40 | 6400.5 |
| 6410.5 | 322.8 | -0.9 | 5.04 | 4.01 | -3.04 | -0.08 | 0.260 | 0.371 | -0.007 | 5.53 | 6410.5 |
| 6420.5 | 323.7 | -0.9 | 5.03 | 4.06 | -2.98 | -0.08 | 0.255 | 0.375 | -0.007 | 5.65 | 6420.5 |
| 6430.5 | 324.6 | -0.9 | 5.03 | 4.10 | -2.91 | -0.08 | 0.249 | 0.379 | -0.007 | 5.76 | 6430.5 |
| 6440.5 | 325.5 | -0.9 | 5.03 | 4.14 | -2.85 | -0.08 | 0.244 | 0.382 | -0.007 | 5.85 | 6440.5 |
| 6450.5 | 326.4 | -0.9 | 5.03 | 4.18 | -2.78 | -0.08 | 0.238 | 0.386 | -0.007 | 5.92 | 6450.5 |
| 6460.5 | 327.3 | -1.0 | 5.02 | 4.22 | -2.72 | -0.08 | 0.232 | 0.390 | -0.007 | 5.97 | 6460.5 |
| 6470.5 | 328.1 | -1.0 | 5.02 | 4.26 | -2.65 | -0.09 | 0.227 | 0.394 | -0.007 | 6.00 | 6470.5 |
| 6480.5 | 329.0 | -1.0 | 5.02 | 4.30 | -2.58 | -0.09 | 0.221 | 0.397 | -0.007 | 6.01 | 6480.5 |
| 6490.5 | 329.9 | -1.0 | 5.01 | 4.34 | -2.51 | -0.09 | 0.215 | 0.401 | -0.006 | 5.99 | 6490.5 |
| 6500.5 | 330.8 | -1.0 | 5.01 | 4.38 | -2.44 | -0.09 | 0.209 | 0.404 | -0.006 | 5.96 | 6500.5 |
| 6510.5 | 331.7 | -1.0 | 5.01 | 4.41 | -2.37 | -0.09 | 0.203 | 0.407 | -0.006 | 5.91 | 6510.5 |
| 6520.5 | 332.6 | -1.0 | 5.01 | 4.45 | -2.30 | -0.09 | 0.197 | 0.411 | -0.006 | 5.84 | 6520.5 |
| 6530.5 | 333.5 | -1.0 | 5.00 | 4.48 | -2.23 | -0.09 | 0.191 | 0.414 | -0.006 | 5.75 | 6530.5 |
| 6540.5 | 334.4 | -1.1 | 5.00 | 4.51 | -2.16 | -0.09 | 0.185 | 0.417 | -0.006 | 5.64 | 6540.5 |
| 6550.5 | 335.3 | -1.1 | 5.00 | 4.54 | -2.09 | -0.09 | 0.178 | 0.420 | -0.006 | 5.52 | 6550.5 |
| 6560.5 | 336.2 | -1.1 | 5.00 | 4.57 | -2.02 | -0.09 | 0.172 | 0.422 | -0.006 | 5.39 | 6560.5 |
| 6570.5 | 337.1 | -1.1 | 5.00 | 4.60 | -1.94 | -0.10 | 0.166 | 0.425 | -0.005 | 5.25 | 6570.5 |
| 6580.5 | 338.0 | -1.1 | 4.99 | 4.63 | -1.87 | -0.10 | 0.159 | 0.428 | -0.005 | 5.10 | 6580.5 |
| 6590.5 | 338.9 | -1.1 | 4.99 | 4.66 | -1.80 | -0.10 | 0.153 | 0.430 | -0.005 | 4.94 | 6590.5 |
| 6600.5 | 339.8 | -1.1 | 4.99 | 4.68 | -1.72 | -0.10 | 0.146 | 0.433 | -0.005 | 4.79 | 6600.5 |
| 6610.5 | 340.7 | -1.1 | 4.99 | 4.71 | -1.65 | -0.10 | 0.140 | 0.435 | -0.005 | 4.64 | 6610.5 |
| 6620.5 | 341.6 | -1.1 | 4.99 | 4.73 | -1.57 | -0.10 | 0.133 | 0.437 | -0.005 | 4.49 | 6620.5 |
| 6630.5 | 342.5 | -1.2 | 4.98 | 4.75 | -1.50 | -0.10 | 0.127 | 0.440 | -0.005 | 4.35 | 6630.5 |
| 6640.5 | 343.4 | -1.2 | 4.98 | 4.77 | -1.42 | -0.10 | 0.120 | 0.442 | -0.004 | 4.23 | 6640.5 |
| 6650.5 | 344.3 | -1.2 | 4.98 | 4.79 | -1.35 | -0.10 | 0.114 | 0.444 | -0.004 | 4.13 | 6650.5 |
| 6660.5 | 345.2 | -1.2 | 4.98 | 4.81 | -1.27 | -0.10 | 0.107 | 0.445 | -0.004 | 4.05 | 6660.5 |
| 6670.5 | 346.1 | -1.2 | 4.98 | 4.83 | -1.19 | -0.10 | 0.100 | 0.447 | -0.004 | 4.00 | 6670.5 |
| 6680.5 | 347.0 | -1.2 | 4.97 | 4.85 | -1.11 | -0.10 | 0.093 | 0.449 | -0.004 | 3.97 | 6680.5 |
| 6690.5 | 348.0 | -1.2 | 4.97 | 4.86 | -1.04 | -0.10 | 0.087 | 0.450 | -0.004 | 3.97 | 6690.5 |
| 6700.5 | 348.9 | -1.2 | 4.97 | 4.88 | -0.96 | -0.11 | 0.080 | 0.452 | -0.004 | 4.01 | 6700.5 |
| 6710.5 | 349.8 | -1.2 | 4.97 | 4.89 | -0.88 | -0.11 | 0.073 | 0.453 | -0.003 | 4.07 | 6710.5 |
| 6720.5 | 350.7 | -1.2 | 4.97 | 4.90 | -0.80 | -0.11 | 0.066 | 0.454 | -0.003 | 4.16 | 6720.5 |
| 6730.5 | 351.6 | -1.2 | 4.97 | 4.91 | -0.73 | -0.11 | 0.059 | 0.455 | -0.003 | 4.27 | 6730.5 |
| 6740.5 | 352.5 | -1.2 | 4.97 | 4.92 | -0.65 | -0.11 | 0.052 | 0.456 | -0.003 | 4.40 | 6740.5 |
| 6750.5 | 353.4 | -1.3 | 4.96 | 4.93 | -0.57 | -0.11 | 0.045 | 0.457 | -0.003 | 4.54 | 6750.5 |
| 6760.5 | 354.3 | -1.3 | 4.96 | 4.94 | -0.49 | -0.11 | 0.038 | 0.458 | -0.003 | 4.69 | 6760.5 |
| 6770.5 | 355.2 | -1.3 | 4.96 | 4.94 | -0.41 | -0.11 | 0.031 | 0.458 | -0.003 | 4.85 | 6770.5 |
| 6780.5 | 356.2 | -1.3 | 4.96 | 4.95 | -0.33 | -0.11 | 0.024 | 0.459 | -0.002 | 5.01 | 6780.5 |
| 6790.5 | 357.1 | -1.3 | 4.96 | 4.95 | -0.25 | -0.11 | 0.017 | 0.459 | -0.002 | 5.16 | 6790.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6800.5 | 358.0 | -1.3 | 4.96 | 4.95 | -0.17 | -0.11 | 0.010 | 0.460 | -0.002 | 5.31 | 6800.5 |
| 6810.5 | 358.9 | -1.3 | 4.96 | 4.96 | -0.10 | -0.11 | 0.003 | 0.460 | -0.002 | 5.45 | 6810.5 |
| 6820.5 | 359.8 | -1.3 | 4.96 | 4.96 | -0.02 | -0.11 | -0.004 | 0.460 | -0.002 | 5.57 | 6820.5 |
| 6830.5 | 0.7 | -1.3 | 4.96 | 4.95 | 0.06 | -0.11 | -0.011 | 0.460 | -0.002 | 5.68 | 6830.5 |
| 6840.5 | 1.6 | -1.3 | 4.96 | 4.95 | 0.14 | -0.11 | -0.018 | 0.460 | -0.001 | 5.77 | 6840.5 |
| 6850.5 | 2.6 | -1.3 | 4.95 | 4.95 | 0.22 | -0.11 | -0.025 | 0.459 | -0.001 | 5.85 | 6850.5 |
| 6860.5 | 3.5 | -1.3 | 4.95 | 4.94 | 0.30 | -0.11 | -0.032 | 0.459 | -0.001 | 5.90 | 6860.5 |
| 6870.5 | 4.4 | -1.3 | 4.95 | 4.94 | 0.38 | -0.11 | -0.039 | 0.459 | -0.001 | 5.94 | 6870.5 |
| 6880.5 | 5.3 | -1.3 | 4.95 | 4.93 | 0.46 | -0.11 | -0.046 | 0.458 | -0.001 | 5.95 | 6880.5 |
| 6890.5 | 6.2 | -1.3 | 4.95 | 4.92 | 0.54 | -0.11 | -0.053 | 0.457 | -0.001 | 5.94 | 6890.5 |
| 6900.5 | 7.1 | -1.3 | 4.95 | 4.91 | 0.61 | -0.11 | -0.060 | 0.456 | -0.000 | 5.92 | 6900.5 |
| 6910.5 | 8.0 | -1.3 | 4.95 | 4.90 | 0.69 | -0.11 | -0.067 | 0.455 | -0.000 | 5.87 | 6910.5 |
| 6920.5 | 9.0 | -1.3 | 4.95 | 4.89 | 0.77 | -0.11 | -0.073 | 0.454 | -0.000 | 5.81 | 6920.5 |
| 6930.5 | 9.9 | -1.3 | 4.95 | 4.88 | 0.85 | -0.11 | -0.080 | 0.453 | 0.000 | 5.73 | 6930.5 |
| 6940.5 | 10.8 | -1.3 | 4.95 | 4.86 | 0.93 | -0.11 | -0.087 | 0.452 | 0.000 | 5.63 | 6940.5 |
| 6950.5 | 11.7 | -1.3 | 4.95 | 4.85 | 1.01 | -0.11 | -0.094 | 0.451 | 0.000 | 5.52 | 6950.5 |
| 6960.5 | 12.6 | -1.3 | 4.95 | 4.83 | 1.08 | -0.11 | -0.101 | 0.449 | 0.000 | 5.39 | 6960.5 |
| 6970.5 | 13.5 | -1.3 | 4.95 | 4.81 | 1.16 | -0.11 | -0.108 | 0.448 | 0.001 | 5.26 | 6970.5 |
| 6980.5 | 14.5 | -1.3 | 4.95 | 4.79 | 1.24 | -0.11 | -0.115 | 0.446 | 0.001 | 5.11 | 6980.5 |
| 6990.5 | 15.4 | -1.3 | 4.95 | 4.77 | 1.31 | -0.11 | -0.121 | 0.444 | 0.001 | 4.96 | 6990.5 |
| 7000.5 | 16.3 | -1.3 | 4.95 | 4.75 | 1.39 | -0.11 | -0.128 | 0.442 | 0.001 | 4.81 | 7000.5 |
| 7010.5 | 17.2 | -1.3 | 4.95 | 4.73 | 1.47 | -0.11 | -0.135 | 0.440 | 0.001 | 4.66 | 7010.5 |
| 7020.5 | 18.1 | -1.3 | 4.95 | 4.70 | 1.54 | -0.11 | -0.142 | 0.438 | 0.001 | 4.51 | 7020.5 |
| 7030.5 | 19.1 | -1.3 | 4.95 | 4.68 | 1.62 | -0.11 | -0.148 | 0.436 | 0.002 | 4.37 | 7030.5 |
| 7040.5 | 20.0 | -1.3 | 4.95 | 4.65 | 1.69 | -0.11 | -0.155 | 0.433 | 0.002 | 4.25 | 7040.5 |
| 7050.5 | 20.9 | -1.3 | 4.95 | 4.63 | 1.76 | -0.11 | -0.162 | 0.431 | 0.002 | 4.14 | 7050.5 |
| 7060.5 | 21.8 | -1.3 | 4.95 | 4.60 | 1.84 | -0.11 | -0.168 | 0.428 | 0.002 | 4.06 | 7060.5 |
| 7070.5 | 22.7 | -1.3 | 4.95 | 4.57 | 1.91 | -0.11 | -0.175 | 0.426 | 0.002 | 4.00 | 7070.5 |
| 7080.5 | 23.6 | -1.3 | 4.95 | 4.54 | 1.99 | -0.11 | -0.181 | 0.423 | 0.002 | 3.96 | 7080.5 |
| 7090.5 | 24.5 | -1.3 | 4.95 | 4.51 | 2.06 | -0.11 | -0.187 | 0.420 | 0.003 | 3.96 | 7090.5 |
| 7100.5 | 25.5 | -1.3 | 4.96 | 4.47 | 2.13 | -0.11 | -0.194 | 0.417 | 0.003 | 3.99 | 7100.5 |
| 7110.5 | 26.4 | -1.3 | 4.96 | 4.44 | 2.20 | -0.11 | -0.200 | 0.414 | 0.003 | 4.05 | 7110.5 |
| 7120.5 | 27.3 | -1.2 | 4.96 | 4.40 | 2.27 | -0.11 | -0.206 | 0.411 | 0.003 | 4.13 | 7120.5 |
| 7130.5 | 28.2 | -1.2 | 4.96 | 4.37 | 2.34 | -0.11 | -0.212 | 0.408 | 0.003 | 4.24 | 7130.5 |
| 7140.5 | 29.1 | -1.2 | 4.96 | 4.33 | 2.41 | -0.11 | -0.219 | 0.404 | 0.003 | 4.37 | 7140.5 |
| 7150.5 | 30.0 | -1.2 | 4.96 | 4.29 | 2.48 | -0.11 | -0.225 | 0.401 | 0.003 | 4.52 | 7150.5 |
| 7160.5 | 30.9 | -1.2 | 4.96 | 4.25 | 2.55 | -0.11 | -0.231 | 0.397 | 0.004 | 4.67 | 7160.5 |
| 7170.5 | 31.9 | -1.2 | 4.96 | 4.21 | 2.62 | -0.10 | -0.237 | 0.394 | 0.004 | 4.83 | 7170.5 |
| 7180.5 | 32.8 | -1.2 | 4.96 | 4.17 | 2.69 | -0.10 | -0.243 | 0.390 | 0.004 | 4.99 | 7180.5 |
| 7190.5 | 33.7 | -1.2 | 4.96 | 4.13 | 2.75 | -0.10 | -0.248 | 0.386 | 0.004 | 5.15 | 7190.5 |
| 7200.5 | 34.6 | -1.2 | 4.97 | 4.09 | 2.82 | -0.10 | -0.254 | 0.382 | 0.004 | 5.30 | 7200.5 |
| 7210.5 | 35.5 | -1.2 | 4.97 | 4.04 | 2.88 | -0.10 | -0.260 | 0.378 | 0.004 | 5.44 | 7210.5 |
| 7220.5 | 36.4 | -1.2 | 4.97 | 4.00 | 2.95 | -0.10 | -0.266 | 0.374 | 0.004 | 5.57 | 7220.5 |
| 7230.5 | 37.3 | -1.2 | 4.97 | 3.95 | 3.01 | -0.10 | -0.271 | 0.370 | 0.005 | 5.68 | 7230.5 |
| 7240.5 | 38.2 | -1.1 | 4.97 | 3.90 | 3.08 | -0.10 | -0.277 | 0.366 | 0.005 | 5.78 | 7240.5 |
| 7250.5 | 39.1 | -1.1 | 4.97 | 3.86 | 3.14 | -0.10 | -0.282 | 0.361 | 0.005 | 5.86 | 7250.5 |
| 7260.5 | 40.1 | -1.1 | 4.97 | 3.81 | 3.20 | -0.10 | -0.287 | 0.357 | 0.005 | 5.92 | 7260.5 |
| 7270.5 | 41.0 | -1.1 | 4.98 | 3.76 | 3.26 | -0.10 | -0.293 | 0.352 | 0.005 | 5.96 | 7270.5 |
| 7280.5 | 41.9 | -1.1 | 4.98 | 3.71 | 3.32 | -0.10 | -0.298 | 0.348 | 0.005 | 5.98 | 7280.5 |
| 7290.5 | 42.8 | -1.1 | 4.98 | 3.65 | 3.38 | -0.10 | -0.303 | 0.343 | 0.005 | 5.99 | 7290.5 |
| 7300.5 | 43.7 | -1.1 | 4.98 | 3.60 | 3.44 | -0.09 | -0.308 | 0.338 | 0.006 | 5.97 | 7300.5 |
| 7310.5 | 44.6 | -1.1 | 4.98 | 3.55 | 3.50 | -0.09 | -0.313 | 0.334 | 0.006 | 5.93 | 7310.5 |
| 7320.5 | 45.5 | -1.1 | 4.99 | 3.49 | 3.55 | -0.09 | -0.318 | 0.329 | 0.006 | 5.88 | 7320.5 |
| 7330.5 | 46.4 | -1.1 | 4.99 | 3.44 | 3.61 | -0.09 | -0.323 | 0.324 | 0.006 | 5.80 | 7330.5 |
| 7340.5 | 47.3 | -1.0 | 4.99 | 3.38 | 3.67 | -0.09 | -0.328 | 0.319 | 0.006 | 5.71 | 7340.5 |
| 7350.5 | 48.2 | -1.0 | 4.99 | 3.33 | 3.72 | -0.09 | -0.332 | 0.313 | 0.006 | 5.61 | 7350.5 |
| 7360.5 | 49.1 | -1.0 | 4.99 | 3.27 | 3.77 | -0.09 | -0.337 | 0.308 | 0.006 | 5.49 | 7360.5 |
| 7370.5 | 50.0 | -1.0 | 5.00 | 3.21 | 3.83 | -0.09 | -0.341 | 0.303 | 0.006 | 5.36 | 7370.5 |
| 7380.5 | 50.9 | -1.0 | 5.00 | 3.15 | 3.88 | -0.09 | -0.346 | 0.298 | 0.007 | 5.21 | 7380.5 |
| 7390.5 | 51.8 | -1.0 | 5.00 | 3.09 | 3.93 | -0.08 | -0.350 | 0.292 | 0.007 | 5.07 | 7390.5 |
| 7400.5 | 52.7 | -1.0 | 5.00 | 3.03 | 3.98 | -0.08 | -0.354 | 0.287 | 0.007 | 4.92 | 7400.5 |
| 7410.5 | 53.6 | -0.9 | 5.00 | 2.97 | 4.03 | -0.08 | -0.358 | 0.281 | 0.007 | 4.76 | 7410.5 |
| 7420.5 | 54.5 | -0.9 | 5.01 | 2.91 | 4.08 | -0.08 | -0.362 | 0.276 | 0.007 | 4.62 | 7420.5 |
| 7430.5 | 55.4 | -0.9 | 5.01 | 2.85 | 4.12 | -0.08 | -0.366 | 0.270 | 0.007 | 4.48 | 7430.5 |
| 7440.5 | 56.3 | -0.9 | 5.01 | 2.78 | 4.17 | -0.08 | -0.370 | 0.265 | 0.007 | 4.35 | 7440.5 |
| 7450.5 | 57.2 | -0.9 | 5.01 | 2.72 | 4.21 | -0.08 | -0.374 | 0.259 | 0.007 | 4.24 | 7450.5 |
| 7460.5 | 58.1 | -0.9 | 5.02 | 2.65 | 4.26 | -0.08 | -0.378 | 0.253 | 0.007 | 4.14 | 7460.5 |
| 7470.5 | 59.0 | -0.9 | 5.02 | 2.59 | 4.30 | -0.08 | -0.381 | 0.247 | 0.008 | 4.08 | 7470.5 |
| 7480.5 | 59.9 | -0.8 | 5.02 | 2.52 | 4.34 | -0.07 | -0.385 | 0.241 | 0.008 | 4.04 | 7480.5 |
| 7490.5 | 60.7 | -0.8 | 5.02 | 2.46 | 4.38 | -0.07 | -0.388 | 0.235 | 0.008 | 4.04 | 7490.5 |
| 7500.5 | 61.6 | -0.8 | 5.03 | 2.39 | 4.42 | -0.07 | -0.391 | 0.229 | 0.008 | 4.06 | 7500.5 |
| 7510.5 | 62.5 | -0.8 | 5.03 | 2.32 | 4.46 | -0.07 | -0.394 | 0.223 | 0.008 | 4.12 | 7510.5 |
| 7520.5 | 63.4 | -0.8 | 5.03 | 2.25 | 4.50 | -0.07 | -0.398 | 0.217 | 0.008 | 4.20 | 7520.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 | | | | | | | | | | | 244 |
| 7530.5 | 64.3 | -0.8 | 5.04 | 2.18 | 4.54 | -0.07 | -0.401 | 0.211 | 0.008 | 4.31 | 7530.5 |
| 7540.5 | 65.2 | -0.7 | 5.04 | 2.12 | 4.57 | -0.07 | -0.403 | 0.205 | 0.008 | 4.44 | 7540.5 |
| 7550.5 | 66.1 | -0.7 | 5.04 | 2.05 | 4.61 | -0.06 | -0.406 | 0.199 | 0.008 | 4.59 | 7550.5 |
| 7560.5 | 66.9 | -0.7 | 5.04 | 1.98 | 4.64 | -0.06 | -0.409 | 0.193 | 0.008 | 4.74 | 7560.5 |
| 7570.5 | 67.8 | -0.7 | 5.05 | 1.90 | 4.67 | -0.06 | -0.412 | 0.186 | 0.008 | 4.90 | 7570.5 |
| 7580.5 | 68.7 | -0.7 | 5.05 | 1.83 | 4.71 | -0.06 | -0.414 | 0.180 | 0.009 | 5.06 | 7580.5 |
| 7590.5 | 69.6 | -0.7 | 5.05 | 1.76 | 4.74 | -0.06 | -0.416 | 0.174 | 0.009 | 5.22 | 7590.5 |
| 7600.5 | 70.5 | -0.6 | 5.06 | 1.69 | 4.77 | -0.06 | -0.419 | 0.168 | 0.009 | 5.37 | 7600.5 |
| 7610.5 | 71.3 | -0.6 | 5.06 | 1.62 | 4.79 | -0.06 | -0.421 | 0.161 | 0.009 | 5.52 | 7610.5 |
| 7620.5 | 72.2 | -0.6 | 5.06 | 1.55 | 4.82 | -0.05 | -0.423 | 0.155 | 0.009 | 5.65 | 7620.5 |
| 7630.5 | 73.1 | -0.6 | 5.07 | 1.47 | 4.85 | -0.05 | -0.425 | 0.148 | 0.009 | 5.77 | 7630.5 |
| 7640.5 | 74.0 | -0.6 | 5.07 | 1.40 | 4.87 | -0.05 | -0.427 | 0.142 | 0.009 | 5.87 | 7640.5 |
| 7650.5 | 74.8 | -0.6 | 5.07 | 1.33 | 4.90 | -0.05 | -0.429 | 0.136 | 0.009 | 5.95 | 7650.5 |
| 7660.5 | 75.7 | -0.5 | 5.08 | 1.25 | 4.92 | -0.05 | -0.430 | 0.129 | 0.009 | 6.02 | 7660.5 |
| 7670.5 | 76.6 | -0.5 | 5.08 | 1.18 | 4.94 | -0.05 | -0.432 | 0.123 | 0.009 | 6.07 | 7670.5 |
| 7680.5 | 77.5 | -0.5 | 5.08 | 1.10 | 4.96 | -0.04 | -0.434 | 0.116 | 0.009 | 6.09 | 7680.5 |
| 7690.5 | 78.3 | -0.5 | 5.09 | 1.03 | 4.98 | -0.04 | -0.435 | 0.110 | 0.009 | 6.10 | 7690.5 |
| 7700.5 | 79.2 | -0.5 | 5.09 | 0.95 | 5.00 | -0.04 | -0.436 | 0.103 | 0.009 | 6.09 | 7700.5 |
| 7710.5 | 80.1 | -0.4 | 5.09 | 0.88 | 5.02 | -0.04 | -0.437 | 0.097 | 0.009 | 6.06 | 7710.5 |
| 7720.5 | 80.9 | -0.4 | 5.10 | 0.80 | 5.03 | -0.04 | -0.439 | 0.090 | 0.009 | 6.00 | 7720.5 |
| 7730.5 | 81.8 | -0.4 | 5.10 | 0.73 | 5.05 | -0.04 | -0.440 | 0.083 | 0.010 | 5.93 | 7730.5 |
| 7740.5 | 82.7 | -0.4 | 5.10 | 0.65 | 5.06 | -0.03 | -0.440 | 0.077 | 0.010 | 5.85 | 7740.5 |
| 7750.5 | 83.5 | -0.4 | 5.11 | 0.58 | 5.07 | -0.03 | -0.441 | 0.070 | 0.010 | 5.74 | 7750.5 |
| 7760.5 | 84.4 | -0.4 | 5.11 | 0.50 | 5.08 | -0.03 | -0.442 | 0.064 | 0.010 | 5.63 | 7760.5 |
| 7770.5 | 85.2 | -0.3 | 5.11 | 0.42 | 5.09 | -0.03 | -0.443 | 0.057 | 0.010 | 5.50 | 7770.5 |
| 7780.5 | 86.1 | -0.3 | 5.12 | 0.35 | 5.10 | -0.03 | -0.443 | 0.051 | 0.010 | 5.36 | 7780.5 |
| 7790.5 | 87.0 | -0.3 | 5.12 | 0.27 | 5.11 | -0.03 | -0.443 | 0.044 | 0.010 | 5.21 | 7790.5 |
| 7800.5 | 87.8 | -0.3 | 5.12 | 0.20 | 5.12 | -0.02 | -0.444 | 0.037 | 0.010 | 5.06 | 7800.5 |
| 7810.5 | 88.7 | -0.3 | 5.13 | 0.12 | 5.13 | -0.02 | -0.444 | 0.031 | 0.010 | 4.90 | 7810.5 |
| 7820.5 | 89.5 | -0.2 | 5.13 | 0.04 | 5.13 | -0.02 | -0.444 | 0.024 | 0.010 | 4.75 | 7820.5 |
| 7830.5 | 90.4 | -0.2 | 5.13 | -0.03 | 5.13 | -0.02 | -0.444 | 0.018 | 0.010 | 4.61 | 7830.5 |
| 7840.5 | 91.2 | -0.2 | 5.14 | -0.11 | 5.14 | -0.02 | -0.444 | 0.011 | 0.010 | 4.48 | 7840.5 |
| 7850.5 | 92.1 | -0.2 | 5.14 | -0.19 | 5.14 | -0.02 | -0.444 | 0.005 | 0.010 | 4.37 | 7850.5 |
| 7860.5 | 92.9 | -0.2 | 5.14 | -0.26 | 5.14 | -0.01 | -0.443 | -0.002 | 0.010 | 4.28 | 7860.5 |
| 7870.5 | 93.8 | -0.1 | 5.15 | -0.34 | 5.14 | -0.01 | -0.443 | -0.008 | 0.010 | 4.21 | 7870.5 |
| 7880.5 | 94.6 | -0.1 | 5.15 | -0.42 | 5.13 | -0.01 | -0.443 | -0.015 | 0.010 | 4.18 | 7880.5 |
| 7890.5 | 95.5 | -0.1 | 5.16 | -0.49 | 5.13 | -0.01 | -0.442 | -0.021 | 0.010 | 4.17 | 7890.5 |
| 7900.5 | 96.3 | -0.1 | 5.16 | -0.57 | 5.13 | -0.01 | -0.441 | -0.028 | 0.010 | 4.20 | 7900.5 |
| 7910.5 | 97.2 | -0.1 | 5.16 | -0.64 | 5.12 | -0.01 | -0.441 | -0.034 | 0.010 | 4.26 | 7910.5 |
| 7920.5 | 98.0 | -0.0 | 5.17 | -0.72 | 5.12 | -0.00 | -0.440 | -0.040 | 0.010 | 4.34 | 7920.5 |
| 7930.5 | 98.8 | -0.0 | 5.17 | -0.79 | 5.11 | -0.00 | -0.439 | -0.047 | 0.010 | 4.45 | 7930.5 |
| 7940.5 | 99.7 | -0.0 | 5.17 | -0.87 | 5.10 | -0.00 | -0.438 | -0.053 | 0.010 | 4.58 | 7940.5 |
| 7950.5 | 100.5 | 0.0 | 5.18 | -0.94 | 5.09 | 0.00 | -0.437 | -0.059 | 0.010 | 4.73 | 7950.5 |
| 7960.5 | 101.4 | 0.0 | 5.18 | -1.02 | 5.08 | 0.00 | -0.435 | -0.066 | 0.010 | 4.88 | 7960.5 |
| 7970.5 | 102.2 | 0.0 | 5.18 | -1.09 | 5.07 | 0.00 | -0.434 | -0.072 | 0.010 | 5.04 | 7970.5 |
| 7980.5 | 103.0 | 0.1 | 5.19 | -1.17 | 5.05 | 0.01 | -0.433 | -0.078 | 0.010 | 5.20 | 7980.5 |
| 7990.5 | 103.9 | 0.1 | 5.19 | -1.24 | 5.04 | 0.01 | -0.431 | -0.084 | 0.010 | 5.36 | 7990.5 |
| 8000.5 | 104.7 | 0.1 | 5.20 | -1.32 | 5.03 | 0.01 | -0.430 | -0.091 | 0.010 | 5.52 | 8000.5 |
| 8010.5 | 105.5 | 0.1 | 5.20 | -1.39 | 5.01 | 0.01 | -0.428 | -0.097 | 0.010 | 5.66 | 8010.5 |
| 8020.5 | 106.4 | 0.1 | 5.20 | -1.46 | 4.99 | 0.01 | -0.426 | -0.103 | 0.010 | 5.79 | 8020.5 |
| 8030.5 | 107.2 | 0.2 | 5.21 | -1.54 | 4.97 | 0.01 | -0.424 | -0.109 | 0.010 | 5.91 | 8030.5 |
| 8040.5 | 108.0 | 0.2 | 5.21 | -1.61 | 4.95 | 0.02 | -0.423 | -0.115 | 0.010 | 6.01 | 8040.5 |
| 8050.5 | 108.8 | 0.2 | 5.21 | -1.68 | 4.93 | 0.02 | -0.421 | -0.121 | 0.010 | 6.09 | 8050.5 |
| 8060.5 | 109.7 | 0.2 | 5.22 | -1.76 | 4.91 | 0.02 | -0.418 | -0.127 | 0.010 | 6.16 | 8060.5 |
| 8070.5 | 110.5 | 0.2 | 5.22 | -1.83 | 4.89 | 0.02 | -0.416 | -0.133 | 0.010 | 6.21 | 8070.5 |
| 8080.5 | 111.3 | 0.3 | 5.22 | -1.90 | 4.87 | 0.02 | -0.414 | -0.139 | 0.010 | 6.24 | 8080.5 |
| 8090.5 | 112.1 | 0.3 | 5.23 | -1.97 | 4.84 | 0.03 | -0.412 | -0.145 | 0.010 | 6.24 | 8090.5 |
| 8100.5 | 113.0 | 0.3 | 5.23 | -2.04 | 4.82 | 0.03 | -0.409 | -0.151 | 0.010 | 6.23 | 8100.5 |
| 8110.5 | 113.8 | 0.3 | 5.24 | -2.11 | 4.79 | 0.03 | -0.407 | -0.156 | 0.010 | 6.20 | 8110.5 |
| 8120.5 | 114.6 | 0.3 | 5.24 | -2.18 | 4.76 | 0.03 | -0.404 | -0.162 | 0.010 | 6.15 | 8120.5 |
| 8130.5 | 115.4 | 0.3 | 5.24 | -2.25 | 4.74 | 0.03 | -0.402 | -0.168 | 0.010 | 6.08 | 8130.5 |
| 8140.5 | 116.2 | 0.4 | 5.25 | -2.32 | 4.71 | 0.03 | -0.399 | -0.173 | 0.010 | 5.99 | 8140.5 |
| 8150.5 | 117.0 | 0.4 | 5.25 | -2.39 | 4.68 | 0.04 | -0.396 | -0.179 | 0.010 | 5.88 | 8150.5 |
| 8160.5 | 117.9 | 0.4 | 5.25 | -2.45 | 4.64 | 0.04 | -0.393 | -0.185 | 0.010 | 5.76 | 8160.5 |
| 8170.5 | 118.7 | 0.4 | 5.26 | -2.52 | 4.61 | 0.04 | -0.390 | -0.190 | 0.010 | 5.63 | 8170.5 |
| 8180.5 | 119.5 | 0.4 | 5.26 | -2.59 | 4.58 | 0.04 | -0.387 | -0.195 | 0.009 | 5.48 | 8180.5 |
| 8190.5 | 120.3 | 0.5 | 5.26 | -2.66 | 4.54 | 0.04 | -0.384 | -0.201 | 0.009 | 5.33 | 8190.5 |
| 8200.5 | 121.1 | 0.5 | 5.27 | -2.72 | 4.51 | 0.04 | -0.381 | -0.206 | 0.009 | 5.18 | 8200.5 |
| 8210.5 | 121.9 | 0.5 | 5.27 | -2.79 | 4.47 | 0.04 | -0.378 | -0.211 | 0.009 | 5.02 | 8210.5 |
| 8220.5 | 122.7 | 0.5 | 5.27 | -2.85 | 4.44 | 0.05 | -0.374 | -0.217 | 0.009 | 4.87 | 8220.5 |
| 8230.5 | 123.5 | 0.5 | 5.28 | -2.92 | 4.40 | 0.05 | -0.371 | -0.222 | 0.009 | 4.73 | 8230.5 |
| 8240.5 | 124.3 | 0.5 | 5.28 | -2.98 | 4.36 | 0.05 | -0.367 | -0.227 | 0.009 | 4.60 | 8240.5 |
| 8250.5 | 125.1 | 0.6 | 5.28 | -3.04 | 4.32 | 0.05 | -0.364 | -0.232 | 0.009 | 4.49 | 8250.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 8260.5 | 125.9 | 0.6 | 5.29 | -3.10 | 4.28 | 0.05 | -0.360 | -0.237 | 0.009 | 4.40 | 8260.5 |
| 8270.5 | 126.7 | 0.6 | 5.29 | -3.17 | 4.24 | 0.05 | -0.357 | -0.242 | 0.009 | 4.34 | 8270.5 |
| 8280.5 | 127.5 | 0.6 | 5.29 | -3.23 | 4.20 | 0.06 | -0.353 | -0.247 | 0.009 | 4.31 | 8280.5 |
| 8290.5 | 128.3 | 0.6 | 5.30 | -3.29 | 4.15 | 0.06 | -0.349 | -0.252 | 0.009 | 4.32 | 8290.5 |
| 8300.5 | 129.1 | 0.6 | 5.30 | -3.35 | 4.11 | 0.06 | -0.345 | -0.257 | 0.009 | 4.35 | 8300.5 |
| 8310.5 | 129.9 | 0.7 | 5.30 | -3.41 | 4.07 | 0.06 | -0.342 | -0.261 | 0.009 | 4.41 | 8310.5 |
| 8320.5 | 130.7 | 0.7 | 5.31 | -3.46 | 4.02 | 0.06 | -0.338 | -0.266 | 0.009 | 4.50 | 8320.5 |
| 8330.5 | 131.5 | 0.7 | 5.31 | -3.52 | 3.97 | 0.06 | -0.334 | -0.271 | 0.009 | 4.62 | 8330.5 |
| 8340.5 | 132.3 | 0.7 | 5.31 | -3.58 | 3.93 | 0.06 | -0.329 | -0.275 | 0.008 | 4.75 | 8340.5 |
| 8350.5 | 133.1 | 0.7 | 5.32 | -3.64 | 3.88 | 0.07 | -0.325 | -0.280 | 0.008 | 4.90 | 8350.5 |
| 8360.5 | 133.9 | 0.7 | 5.32 | -3.69 | 3.83 | 0.07 | -0.321 | -0.284 | 0.008 | 5.05 | 8360.5 |
| 8370.5 | 134.7 | 0.7 | 5.32 | -3.75 | 3.78 | 0.07 | -0.317 | -0.288 | 0.008 | 5.21 | 8370.5 |
| 8380.5 | 135.5 | 0.8 | 5.33 | -3.80 | 3.73 | 0.07 | -0.313 | -0.293 | 0.008 | 5.37 | 8380.5 |
| 8390.5 | 136.3 | 0.8 | 5.33 | -3.85 | 3.68 | 0.07 | -0.308 | -0.297 | 0.008 | 5.53 | 8390.5 |
| 8400.5 | 137.1 | 0.8 | 5.33 | -3.91 | 3.63 | 0.07 | -0.304 | -0.301 | 0.008 | 5.68 | 8400.5 |
| 8410.5 | 137.9 | 0.8 | 5.34 | -3.96 | 3.58 | 0.07 | -0.299 | -0.305 | 0.008 | 5.82 | 8410.5 |
| 8420.5 | 138.7 | 0.8 | 5.34 | -4.01 | 3.53 | 0.08 | -0.295 | -0.309 | 0.008 | 5.94 | 8420.5 |
| 8430.5 | 139.5 | 0.8 | 5.34 | -4.06 | 3.47 | 0.08 | -0.290 | -0.313 | 0.008 | 6.06 | 8430.5 |
| 8440.5 | 140.2 | 0.8 | 5.35 | -4.11 | 3.42 | 0.08 | -0.286 | -0.317 | 0.008 | 6.16 | 8440.5 |
| 8450.5 | 141.0 | 0.9 | 5.35 | -4.16 | 3.36 | 0.08 | -0.281 | -0.321 | 0.008 | 6.24 | 8450.5 |
| 8460.5 | 141.8 | 0.9 | 5.35 | -4.21 | 3.31 | 0.08 | -0.276 | -0.325 | 0.007 | 6.30 | 8460.5 |
| 8470.5 | 142.6 | 0.9 | 5.35 | -4.25 | 3.25 | 0.08 | -0.272 | -0.328 | 0.007 | 6.34 | 8470.5 |
| 8480.5 | 143.4 | 0.9 | 5.36 | -4.30 | 3.19 | 0.08 | -0.267 | -0.332 | 0.007 | 6.37 | 8480.5 |
| 8490.5 | 144.2 | 0.9 | 5.36 | -4.34 | 3.14 | 0.09 | -0.262 | -0.335 | 0.007 | 6.37 | 8490.5 |
| 8500.5 | 144.9 | 0.9 | 5.36 | -4.39 | 3.08 | 0.09 | -0.257 | -0.339 | 0.007 | 6.35 | 8500.5 |
| 8510.5 | 145.7 | 0.9 | 5.37 | -4.43 | 3.02 | 0.09 | -0.252 | -0.342 | 0.007 | 6.31 | 8510.5 |
| 8520.5 | 146.5 | 0.9 | 5.37 | -4.48 | 2.96 | 0.09 | -0.247 | -0.346 | 0.007 | 6.25 | 8520.5 |
| 8530.5 | 147.3 | 1.0 | 5.37 | -4.52 | 2.90 | 0.09 | -0.242 | -0.349 | 0.007 | 6.18 | 8530.5 |
| 8540.5 | 148.1 | 1.0 | 5.37 | -4.56 | 2.84 | 0.09 | -0.237 | -0.352 | 0.007 | 6.08 | 8540.5 |
| 8550.5 | 148.8 | 1.0 | 5.38 | -4.60 | 2.78 | 0.09 | -0.232 | -0.355 | 0.007 | 5.97 | 8550.5 |
| 8560.5 | 149.6 | 1.0 | 5.38 | -4.64 | 2.72 | 0.09 | -0.227 | -0.358 | 0.007 | 5.84 | 8560.5 |
| 8570.5 | 150.4 | 1.0 | 5.38 | -4.68 | 2.66 | 0.09 | -0.222 | -0.361 | 0.006 | 5.70 | 8570.5 |
| 8580.5 | 151.2 | 1.0 | 5.38 | -4.72 | 2.60 | 0.10 | -0.217 | -0.364 | 0.006 | 5.55 | 8580.5 |
| 8590.5 | 151.9 | 1.0 | 5.39 | -4.75 | 2.53 | 0.10 | -0.211 | -0.367 | 0.006 | 5.39 | 8590.5 |
| 8600.5 | 152.7 | 1.0 | 5.39 | -4.79 | 2.47 | 0.10 | -0.206 | -0.370 | 0.006 | 5.24 | 8600.5 |
| 8610.5 | 153.5 | 1.0 | 5.39 | -4.82 | 2.41 | 0.10 | -0.201 | -0.372 | 0.006 | 5.08 | 8610.5 |
| 8620.5 | 154.3 | 1.1 | 5.39 | -4.86 | 2.34 | 0.10 | -0.196 | -0.375 | 0.006 | 4.93 | 8620.5 |
| 8630.5 | 155.0 | 1.1 | 5.40 | -4.89 | 2.28 | 0.10 | -0.190 | -0.377 | 0.006 | 4.79 | 8630.5 |
| 8640.5 | 155.8 | 1.1 | 5.40 | -4.92 | 2.21 | 0.10 | -0.185 | -0.380 | 0.006 | 4.66 | 8640.5 |
| 8650.5 | 156.6 | 1.1 | 5.40 | -4.95 | 2.15 | 0.10 | -0.179 | -0.382 | 0.006 | 4.56 | 8650.5 |
| 8660.5 | 157.4 | 1.1 | 5.40 | -4.98 | 2.08 | 0.10 | -0.174 | -0.385 | 0.005 | 4.48 | 8660.5 |
| 8670.5 | 158.1 | 1.1 | 5.40 | -5.01 | 2.01 | 0.10 | -0.169 | -0.387 | 0.005 | 4.43 | 8670.5 |
| 8680.5 | 158.9 | 1.1 | 5.41 | -5.04 | 1.95 | 0.11 | -0.163 | -0.389 | 0.005 | 4.42 | 8680.5 |
| 8690.5 | 159.7 | 1.1 | 5.41 | -5.07 | 1.88 | 0.11 | -0.158 | -0.391 | 0.005 | 4.43 | 8690.5 |
| 8700.5 | 160.4 | 1.1 | 5.41 | -5.10 | 1.81 | 0.11 | -0.152 | -0.393 | 0.005 | 4.47 | 8700.5 |
| 8710.5 | 161.2 | 1.1 | 5.41 | -5.12 | 1.74 | 0.11 | -0.146 | -0.395 | 0.005 | 4.54 | 8710.5 |
| 8720.5 | 162.0 | 1.2 | 5.41 | -5.15 | 1.68 | 0.11 | -0.141 | -0.397 | 0.005 | 4.64 | 8720.5 |
| 8730.5 | 162.7 | 1.2 | 5.42 | -5.17 | 1.61 | 0.11 | -0.135 | -0.399 | 0.005 | 4.76 | 8730.5 |
| 8740.5 | 163.5 | 1.2 | 5.42 | -5.19 | 1.54 | 0.11 | -0.130 | -0.400 | 0.004 | 4.89 | 8740.5 |
| 8750.5 | 164.3 | 1.2 | 5.42 | -5.22 | 1.47 | 0.11 | -0.124 | -0.402 | 0.004 | 5.04 | 8750.5 |
| 8760.5 | 165.0 | 1.2 | 5.42 | -5.24 | 1.40 | 0.11 | -0.118 | -0.404 | 0.004 | 5.19 | 8760.5 |
| 8770.5 | 165.8 | 1.2 | 5.42 | -5.26 | 1.33 | 0.11 | -0.113 | -0.405 | 0.004 | 5.35 | 8770.5 |
| 8780.5 | 166.6 | 1.2 | 5.42 | -5.27 | 1.26 | 0.11 | -0.107 | -0.406 | 0.004 | 5.51 | 8780.5 |
| 8790.5 | 167.3 | 1.2 | 5.43 | -5.29 | 1.19 | 0.11 | -0.101 | -0.408 | 0.004 | 5.66 | 8790.5 |
| 8800.5 | 168.1 | 1.2 | 5.43 | -5.31 | 1.12 | 0.11 | -0.096 | -0.409 | 0.004 | 5.81 | 8800.5 |
| 8810.5 | 168.8 | 1.2 | 5.43 | -5.33 | 1.05 | 0.12 | -0.090 | -0.410 | 0.004 | 5.94 | 8810.5 |
| 8820.5 | 169.6 | 1.2 | 5.43 | -5.34 | 0.98 | 0.12 | -0.084 | -0.411 | 0.004 | 6.06 | 8820.5 |
| 8830.5 | 170.4 | 1.2 | 5.43 | -5.35 | 0.91 | 0.12 | -0.078 | -0.412 | 0.003 | 6.17 | 8830.5 |
| 8840.5 | 171.1 | 1.2 | 5.43 | -5.37 | 0.84 | 0.12 | -0.073 | -0.413 | 0.003 | 6.26 | 8840.5 |
| 8850.5 | 171.9 | 1.2 | 5.44 | -5.38 | 0.77 | 0.12 | -0.067 | -0.414 | 0.003 | 6.34 | 8850.5 |
| 8860.5 | 172.6 | 1.2 | 5.44 | -5.39 | 0.70 | 0.12 | -0.061 | -0.415 | 0.003 | 6.39 | 8860.5 |
| 8870.5 | 173.4 | 1.3 | 5.44 | -5.40 | 0.62 | 0.12 | -0.055 | -0.416 | 0.003 | 6.43 | 8870.5 |
| 8880.5 | 174.2 | 1.3 | 5.44 | -5.41 | 0.55 | 0.12 | -0.050 | -0.416 | 0.003 | 6.44 | 8880.5 |
| 8890.5 | 174.9 | 1.3 | 5.44 | -5.42 | 0.48 | 0.12 | -0.044 | -0.417 | 0.003 | 6.44 | 8890.5 |
| 8900.5 | 175.7 | 1.3 | 5.44 | -5.42 | 0.41 | 0.12 | -0.038 | -0.417 | 0.003 | 6.41 | 8900.5 |
| 8910.5 | 176.4 | 1.3 | 5.44 | -5.43 | 0.34 | 0.12 | -0.032 | -0.418 | 0.002 | 6.36 | 8910.5 |
| 8920.5 | 177.2 | 1.3 | 5.44 | -5.44 | 0.27 | 0.12 | -0.026 | -0.418 | 0.002 | 6.29 | 8920.5 |
| 8930.5 | 178.0 | 1.3 | 5.44 | -5.44 | 0.19 | 0.12 | -0.021 | -0.418 | 0.002 | 6.20 | 8930.5 |
| 8940.5 | 178.7 | 1.3 | 5.45 | -5.44 | 0.12 | 0.12 | -0.015 | -0.418 | 0.002 | 6.10 | 8940.5 |
| 8950.5 | 179.5 | 1.3 | 5.45 | -5.45 | 0.05 | 0.12 | -0.009 | -0.418 | 0.002 | 5.98 | 8950.5 |
| 8960.5 | 180.2 | 1.3 | 5.45 | -5.45 | -0.02 | 0.12 | -0.003 | -0.418 | 0.002 | 5.84 | 8960.5 |
| 8970.5 | 181.0 | 1.3 | 5.45 | -5.45 | -0.09 | 0.12 | 0.003 | -0.418 | 0.002 | 5.69 | 8970.5 |
| 8980.5 | 181.7 | 1.3 | 5.45 | -5.45 | -0.17 | 0.12 | 0.008 | -0.418 | 0.001 | 5.54 | 8980.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 8990.5 | 182.5 | 1.3 | 5.45 | -5.44 | -0.24 | 0.12 | 0.014 | -0.418 | 0.001 | 5.38 | 244 8990.5 |
| 9000.5 | 183.3 | 1.3 | 5.45 | -5.44 | -0.31 | 0.12 | 0.020 | -0.418 | 0.001 | 5.21 | 9000.5 |
| 9010.5 | 184.0 | 1.3 | 5.45 | -5.44 | -0.38 | 0.12 | 0.026 | -0.417 | 0.001 | 5.06 | 9010.5 |
| 9020.5 | 184.8 | 1.3 | 5.45 | -5.43 | -0.45 | 0.12 | 0.032 | -0.417 | 0.001 | 4.91 | 9020.5 |
| 9030.5 | 185.5 | 1.3 | 5.45 | -5.43 | -0.53 | 0.12 | 0.037 | -0.416 | 0.001 | 4.78 | 9030.5 |
| 9040.5 | 186.3 | 1.3 | 5.45 | -5.42 | -0.60 | 0.12 | 0.043 | -0.416 | 0.001 | 4.66 | 9040.5 |
| 9050.5 | 187.0 | 1.3 | 5.45 | -5.41 | -0.67 | 0.12 | 0.049 | -0.415 | 0.001 | 4.57 | 9050.5 |
| 9060.5 | 187.8 | 1.3 | 5.45 | -5.40 | -0.74 | 0.12 | 0.055 | -0.414 | 0.000 | 4.50 | 9060.5 |
| 9070.5 | 188.6 | 1.3 | 5.45 | -5.39 | -0.81 | 0.12 | 0.060 | -0.414 | 0.000 | 4.46 | 9070.5 |
| 9080.5 | 189.3 | 1.3 | 5.45 | -5.38 | -0.88 | 0.12 | 0.066 | -0.413 | 0.000 | 4.46 | 9080.5 |
| 9090.5 | 190.1 | 1.3 | 5.45 | -5.37 | -0.95 | 0.12 | 0.072 | -0.412 | 0.000 | 4.48 | 9090.5 |
| 9100.5 | 190.8 | 1.3 | 5.45 | -5.36 | -1.02 | 0.12 | 0.077 | -0.411 | -0.000 | 4.53 | 9100.5 |
| 9110.5 | 191.6 | 1.3 | 5.45 | -5.34 | -1.09 | 0.12 | 0.083 | -0.410 | -0.000 | 4.61 | 9110.5 |
| 9120.5 | 192.3 | 1.3 | 5.46 | -5.33 | -1.16 | 0.12 | 0.089 | -0.408 | -0.000 | 4.72 | 9120.5 |
| 9130.5 | 193.1 | 1.3 | 5.46 | -5.31 | -1.23 | 0.12 | 0.094 | -0.407 | -0.001 | 4.84 | 9130.5 |
| 9140.5 | 193.8 | 1.3 | 5.46 | -5.30 | -1.30 | 0.12 | 0.100 | -0.406 | -0.001 | 4.98 | 9140.5 |
| 9150.5 | 194.6 | 1.3 | 5.46 | -5.28 | -1.37 | 0.12 | 0.106 | -0.404 | -0.001 | 5.12 | 9150.5 |
| 9160.5 | 195.3 | 1.3 | 5.45 | -5.26 | -1.44 | 0.12 | 0.111 | -0.403 | -0.001 | 5.28 | 9160.5 |
| 9170.5 | 196.1 | 1.3 | 5.45 | -5.24 | -1.51 | 0.12 | 0.117 | -0.401 | -0.001 | 5.43 | 9170.5 |
| 9180.5 | 196.9 | 1.3 | 5.45 | -5.22 | -1.58 | 0.12 | 0.122 | -0.400 | -0.001 | 5.59 | 9180.5 |
| 9190.5 | 197.6 | 1.3 | 5.45 | -5.20 | -1.65 | 0.12 | 0.128 | -0.398 | -0.001 | 5.74 | 9190.5 |
| 9200.5 | 198.4 | 1.3 | 5.45 | -5.17 | -1.72 | 0.12 | 0.133 | -0.396 | -0.001 | 5.88 | 9200.5 |
| 9210.5 | 199.1 | 1.3 | 5.45 | -5.15 | -1.79 | 0.12 | 0.139 | -0.394 | -0.002 | 6.01 | 9210.5 |
| 9220.5 | 199.9 | 1.3 | 5.45 | -5.13 | -1.85 | 0.12 | 0.144 | -0.392 | -0.002 | 6.12 | 9220.5 |
| 9230.5 | 200.6 | 1.3 | 5.45 | -5.10 | -1.92 | 0.12 | 0.150 | -0.390 | -0.002 | 6.22 | 9230.5 |
| 9240.5 | 201.4 | 1.3 | 5.45 | -5.08 | -1.99 | 0.12 | 0.155 | -0.388 | -0.002 | 6.31 | 9240.5 |
| 9250.5 | 202.1 | 1.3 | 5.45 | -5.05 | -2.05 | 0.12 | 0.161 | -0.386 | -0.002 | 6.37 | 9250.5 |
| 9260.5 | 202.9 | 1.3 | 5.45 | -5.02 | -2.12 | 0.12 | 0.166 | -0.384 | -0.002 | 6.42 | 9260.5 |
| 9270.5 | 203.7 | 1.3 | 5.45 | -4.99 | -2.19 | 0.12 | 0.171 | -0.382 | -0.002 | 6.44 | 9270.5 |
| 9280.5 | 204.4 | 1.3 | 5.45 | -4.96 | -2.25 | 0.12 | 0.176 | -0.379 | -0.002 | 6.45 | 9280.5 |
| 9290.5 | 205.2 | 1.3 | 5.45 | -4.93 | -2.32 | 0.12 | 0.182 | -0.377 | -0.003 | 6.43 | 9290.5 |
| 9300.5 | 205.9 | 1.3 | 5.45 | -4.90 | -2.38 | 0.12 | 0.187 | -0.374 | -0.003 | 6.39 | 9300.5 |
| 9310.5 | 206.7 | 1.3 | 5.45 | -4.87 | -2.45 | 0.12 | 0.192 | -0.372 | -0.003 | 6.33 | 9310.5 |
| 9320.5 | 207.4 | 1.2 | 5.45 | -4.83 | -2.51 | 0.12 | 0.197 | -0.369 | -0.003 | 6.25 | 9320.5 |
| 9330.5 | 208.2 | 1.2 | 5.45 | -4.80 | -2.57 | 0.12 | 0.202 | -0.366 | -0.003 | 6.15 | 9330.5 |
| 9340.5 | 209.0 | 1.2 | 5.45 | -4.76 | -2.64 | 0.12 | 0.208 | -0.364 | -0.003 | 6.03 | 9340.5 |
| 9350.5 | 209.7 | 1.2 | 5.44 | -4.73 | -2.70 | 0.12 | 0.213 | -0.361 | -0.003 | 5.90 | 9350.5 |
| 9360.5 | 210.5 | 1.2 | 5.44 | -4.69 | -2.76 | 0.12 | 0.218 | -0.358 | -0.003 | 5.75 | 9360.5 |
| 9370.5 | 211.2 | 1.2 | 5.44 | -4.65 | -2.82 | 0.12 | 0.223 | -0.355 | -0.004 | 5.60 | 9370.5 |
| 9380.5 | 212.0 | 1.2 | 5.44 | -4.61 | -2.88 | 0.11 | 0.228 | -0.352 | -0.004 | 5.44 | 9380.5 |
| 9390.5 | 212.8 | 1.2 | 5.44 | -4.57 | -2.94 | 0.11 | 0.232 | -0.349 | -0.004 | 5.28 | 9390.5 |
| 9400.5 | 213.5 | 1.2 | 5.44 | -4.53 | -3.00 | 0.11 | 0.237 | -0.345 | -0.004 | 5.12 | 9400.5 |
| 9410.5 | 214.3 | 1.2 | 5.44 | -4.49 | -3.06 | 0.11 | 0.242 | -0.342 | -0.004 | 4.96 | 9410.5 |
| 9420.5 | 215.0 | 1.2 | 5.44 | -4.45 | -3.12 | 0.11 | 0.247 | -0.339 | -0.004 | 4.82 | 9420.5 |
| 9430.5 | 215.8 | 1.2 | 5.43 | -4.41 | -3.18 | 0.11 | 0.252 | -0.336 | -0.004 | 4.69 | 9430.5 |
| 9440.5 | 216.6 | 1.2 | 5.43 | -4.36 | -3.24 | 0.11 | 0.256 | -0.332 | -0.004 | 4.59 | 9440.5 |
| 9450.5 | 217.3 | 1.2 | 5.43 | -4.32 | -3.29 | 0.11 | 0.261 | -0.329 | -0.005 | 4.50 | 9450.5 |
| 9460.5 | 218.1 | 1.2 | 5.43 | -4.27 | -3.35 | 0.11 | 0.266 | -0.325 | -0.005 | 4.45 | 9460.5 |
| 9470.5 | 218.8 | 1.1 | 5.43 | -4.23 | -3.40 | 0.11 | 0.270 | -0.321 | -0.005 | 4.42 | 9470.5 |
| 9480.5 | 219.6 | 1.1 | 5.43 | -4.18 | -3.46 | 0.11 | 0.275 | -0.318 | -0.005 | 4.43 | 9480.5 |
| 9490.5 | 220.4 | 1.1 | 5.43 | -4.13 | -3.51 | 0.11 | 0.279 | -0.314 | -0.005 | 4.46 | 9490.5 |
| 9500.5 | 221.1 | 1.1 | 5.42 | -4.08 | -3.57 | 0.11 | 0.284 | -0.310 | -0.005 | 4.52 | 9500.5 |
| 9510.5 | 221.9 | 1.1 | 5.42 | -4.04 | -3.62 | 0.10 | 0.288 | -0.306 | -0.005 | 4.61 | 9510.5 |
| 9520.5 | 222.7 | 1.1 | 5.42 | -3.99 | -3.67 | 0.10 | 0.292 | -0.302 | -0.005 | 4.72 | 9520.5 |
| 9530.5 | 223.4 | 1.1 | 5.42 | -3.93 | -3.72 | 0.10 | 0.297 | -0.298 | -0.005 | 4.85 | 9530.5 |
| 9540.5 | 224.2 | 1.1 | 5.42 | -3.88 | -3.77 | 0.10 | 0.301 | -0.294 | -0.006 | 4.98 | 9540.5 |
| 9550.5 | 225.0 | 1.1 | 5.41 | -3.83 | -3.83 | 0.10 | 0.305 | -0.290 | -0.006 | 5.13 | 9550.5 |
| 9560.5 | 225.7 | 1.1 | 5.41 | -3.78 | -3.87 | 0.10 | 0.309 | -0.286 | -0.006 | 5.29 | 9560.5 |
| 9570.5 | 226.5 | 1.0 | 5.41 | -3.72 | -3.92 | 0.10 | 0.313 | -0.282 | -0.006 | 5.44 | 9570.5 |
| 9580.5 | 227.3 | 1.0 | 5.41 | -3.67 | -3.97 | 0.10 | 0.317 | -0.277 | -0.006 | 5.59 | 9580.5 |
| 9590.5 | 228.0 | 1.0 | 5.41 | -3.62 | -4.02 | 0.10 | 0.321 | -0.273 | -0.006 | 5.73 | 9590.5 |
| 9600.5 | 228.8 | 1.0 | 5.40 | -3.56 | -4.07 | 0.10 | 0.325 | -0.269 | -0.006 | 5.87 | 9600.5 |
| 9610.5 | 229.6 | 1.0 | 5.40 | -3.50 | -4.11 | 0.09 | 0.329 | -0.264 | -0.006 | 5.99 | 9610.5 |
| 9620.5 | 230.3 | 1.0 | 5.40 | -3.45 | -4.16 | 0.09 | 0.333 | -0.260 | -0.006 | 6.10 | 9620.5 |
| 9630.5 | 231.1 | 1.0 | 5.40 | -3.39 | -4.20 | 0.09 | 0.337 | -0.255 | -0.007 | 6.20 | 9630.5 |
| 9640.5 | 231.9 | 1.0 | 5.40 | -3.33 | -4.24 | 0.09 | 0.340 | -0.250 | -0.007 | 6.27 | 9640.5 |
| 9650.5 | 232.6 | 1.0 | 5.39 | -3.27 | -4.29 | 0.09 | 0.344 | -0.246 | -0.007 | 6.33 | 9650.5 |
| 9660.5 | 233.4 | 0.9 | 5.39 | -3.21 | -4.33 | 0.09 | 0.348 | -0.241 | -0.007 | 6.36 | 9660.5 |
| 9670.5 | 234.2 | 0.9 | 5.39 | -3.15 | -4.37 | 0.09 | 0.351 | -0.236 | -0.007 | 6.38 | 9670.5 |
| 9680.5 | 235.0 | 0.9 | 5.39 | -3.09 | -4.41 | 0.09 | 0.354 | -0.231 | -0.007 | 6.37 | 9680.5 |
| 9690.5 | 235.7 | 0.9 | 5.38 | -3.03 | -4.45 | 0.09 | 0.358 | -0.227 | -0.007 | 6.34 | 9690.5 |
| 9700.5 | 236.5 | 0.9 | 5.38 | -2.97 | -4.49 | 0.08 | 0.361 | -0.222 | -0.007 | 6.29 | 9700.5 |
| 9710.5 | 237.3 | 0.9 | 5.38 | -2.91 | -4.53 | 0.08 | 0.364 | -0.217 | -0.007 | 6.22 | 9710.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 9720.5 | 238.1 | 0.9 | 5.38 | -2.84 | -4.56 | 0.08 | 0.368 | -0.212 | -0.007 | 6.13 | 9720.5 |
| 9730.5 | 238.8 | 0.9 | 5.37 | -2.78 | -4.60 | 0.08 | 0.371 | -0.207 | -0.007 | 6.02 | 9730.5 |
| 9740.5 | 239.6 | 0.8 | 5.37 | -2.72 | -4.63 | 0.08 | 0.374 | -0.201 | -0.008 | 5.89 | 9740.5 |
| 9750.5 | 240.4 | 0.8 | 5.37 | -2.65 | -4.67 | 0.08 | 0.377 | -0.196 | -0.008 | 5.76 | 9750.5 |
| 9760.5 | 241.2 | 0.8 | 5.37 | -2.59 | -4.70 | 0.08 | 0.380 | -0.191 | -0.008 | 5.61 | 9760.5 |
| 9770.5 | 242.0 | 0.8 | 5.36 | -2.52 | -4.73 | 0.08 | 0.382 | -0.186 | -0.008 | 5.45 | 9770.5 |
| 9780.5 | 242.7 | 0.8 | 5.36 | -2.45 | -4.77 | 0.07 | 0.385 | -0.180 | -0.008 | 5.29 | 9780.5 |
| 9790.5 | 243.5 | 0.8 | 5.36 | -2.39 | -4.80 | 0.07 | 0.388 | -0.175 | -0.008 | 5.13 | 9790.5 |
| 9800.5 | 244.3 | 0.8 | 5.36 | -2.32 | -4.83 | 0.07 | 0.391 | -0.170 | -0.008 | 4.97 | 9800.5 |
| 9810.5 | 245.1 | 0.7 | 5.35 | -2.25 | -4.85 | 0.07 | 0.393 | -0.164 | -0.008 | 4.82 | 9810.5 |
| 9820.5 | 245.9 | 0.7 | 5.35 | -2.19 | -4.88 | 0.07 | 0.396 | -0.159 | -0.008 | 4.68 | 9820.5 |
| 9830.5 | 246.7 | 0.7 | 5.35 | -2.12 | -4.91 | 0.07 | 0.398 | -0.153 | -0.008 | 4.56 | 9830.5 |
| 9840.5 | 247.4 | 0.7 | 5.34 | -2.05 | -4.93 | 0.07 | 0.400 | -0.148 | -0.008 | 4.46 | 9840.5 |
| 9850.5 | 248.2 | 0.7 | 5.34 | -1.98 | -4.96 | 0.06 | 0.403 | -0.142 | -0.008 | 4.38 | 9850.5 |
| 9860.5 | 249.0 | 0.7 | 5.34 | -1.91 | -4.98 | 0.06 | 0.405 | -0.137 | -0.009 | 4.34 | 9860.5 |
| 9870.5 | 249.8 | 0.7 | 5.33 | -1.84 | -5.01 | 0.06 | 0.407 | -0.131 | -0.009 | 4.32 | 9870.5 |
| 9880.5 | 250.6 | 0.6 | 5.33 | -1.77 | -5.03 | 0.06 | 0.409 | -0.125 | -0.009 | 4.33 | 9880.5 |
| 9890.5 | 251.4 | 0.6 | 5.33 | -1.70 | -5.05 | 0.06 | 0.411 | -0.119 | -0.009 | 4.37 | 9890.5 |
| 9900.5 | 252.2 | 0.6 | 5.33 | -1.63 | -5.07 | 0.06 | 0.413 | -0.114 | -0.009 | 4.44 | 9900.5 |
| 9910.5 | 253.0 | 0.6 | 5.32 | -1.56 | -5.09 | 0.06 | 0.415 | -0.108 | -0.009 | 4.53 | 9910.5 |
| 9920.5 | 253.8 | 0.6 | 5.32 | -1.49 | -5.11 | 0.05 | 0.417 | -0.102 | -0.009 | 4.65 | 9920.5 |
| 9930.5 | 254.6 | 0.6 | 5.32 | -1.41 | -5.12 | 0.05 | 0.418 | -0.096 | -0.009 | 4.78 | 9930.5 |
| 9940.5 | 255.4 | 0.5 | 5.31 | -1.34 | -5.14 | 0.05 | 0.420 | -0.090 | -0.009 | 4.92 | 9940.5 |
| 9950.5 | 256.2 | 0.5 | 5.31 | -1.27 | -5.15 | 0.05 | 0.421 | -0.084 | -0.009 | 5.07 | 9950.5 |
| 9960.5 | 257.0 | 0.5 | 5.31 | -1.20 | -5.17 | 0.05 | 0.423 | -0.078 | -0.009 | 5.22 | 9960.5 |
| 9970.5 | 257.8 | 0.5 | 5.30 | -1.12 | -5.18 | 0.05 | 0.424 | -0.073 | -0.009 | 5.37 | 9970.5 |
| 9980.5 | 258.6 | 0.5 | 5.30 | -1.05 | -5.19 | 0.04 | 0.425 | -0.067 | -0.009 | 5.52 | 9980.5 |
| 9990.5 | 259.4 | 0.5 | 5.30 | -0.98 | -5.20 | 0.04 | 0.426 | -0.060 | -0.009 | 5.66 | 9990.5 |
| 0000.5 | 260.2 | 0.4 | 5.29 | -0.91 | -5.21 | 0.04 | 0.428 | -0.054 | -0.009 | 5.79 | 0000.5 |
| 0010.5 | 261.0 | 0.4 | 5.29 | -0.83 | -5.22 | 0.04 | 0.429 | -0.048 | -0.009 | 5.91 | 0010.5 |
| 0020.5 | 261.8 | 0.4 | 5.29 | -0.76 | -5.23 | 0.04 | 0.429 | -0.042 | -0.009 | 6.02 | 0020.5 |
| 0030.5 | 262.6 | 0.4 | 5.28 | -0.68 | -5.24 | 0.04 | 0.430 | -0.036 | -0.010 | 6.10 | 0030.5 |
| 0040.5 | 263.4 | 0.4 | 5.28 | -0.61 | -5.24 | 0.03 | 0.431 | -0.030 | -0.010 | 6.17 | 0040.5 |
| 0050.5 | 264.2 | 0.4 | 5.28 | -0.54 | -5.25 | 0.03 | 0.432 | -0.024 | -0.010 | 6.22 | 0050.5 |
| 0060.5 | 265.0 | 0.3 | 5.27 | -0.46 | -5.25 | 0.03 | 0.432 | -0.018 | -0.010 | 6.25 | 0060.5 |
| 0070.5 | 265.8 | 0.3 | 5.27 | -0.39 | -5.25 | 0.03 | 0.433 | -0.012 | -0.010 | 6.25 | 0070.5 |
| 0080.5 | 266.6 | 0.3 | 5.27 | -0.31 | -5.26 | 0.03 | 0.433 | -0.005 | -0.010 | 6.24 | 0080.5 |
| 0090.5 | 267.4 | 0.3 | 5.26 | -0.24 | -5.26 | 0.03 | 0.434 | 0.001 | -0.010 | 6.20 | 0090.5 |
| 0100.5 | 268.2 | 0.3 | 5.26 | -0.16 | -5.26 | 0.02 | 0.434 | 0.007 | -0.010 | 6.14 | 0100.5 |
| 0110.5 | 269.0 | 0.2 | 5.25 | -0.09 | -5.25 | 0.02 | 0.434 | 0.013 | -0.010 | 6.06 | 0110.5 |
| 0120.5 | 269.9 | 0.2 | 5.25 | -0.01 | -5.25 | 0.02 | 0.434 | 0.020 | -0.010 | 5.97 | 0120.5 |
| 0130.5 | 270.7 | 0.2 | 5.25 | 0.06 | -5.25 | 0.02 | 0.434 | 0.026 | -0.010 | 5.85 | 0130.5 |
| 0140.5 | 271.5 | 0.2 | 5.24 | 0.14 | -5.24 | 0.02 | 0.434 | 0.032 | -0.010 | 5.73 | 0140.5 |
| 0150.5 | 272.3 | 0.2 | 5.24 | 0.21 | -5.24 | 0.02 | 0.434 | 0.038 | -0.010 | 5.58 | 0150.5 |
| 0160.5 | 273.1 | 0.2 | 5.24 | 0.28 | -5.23 | 0.01 | 0.433 | 0.045 | -0.010 | 5.43 | 0160.5 |
| 0170.5 | 273.9 | 0.1 | 5.23 | 0.36 | -5.22 | 0.01 | 0.433 | 0.051 | -0.010 | 5.28 | 0170.5 |
| 0180.5 | 274.8 | 0.1 | 5.23 | 0.43 | -5.21 | 0.01 | 0.432 | 0.057 | -0.010 | 5.12 | 0180.5 |
| 0190.5 | 275.6 | 0.1 | 5.23 | 0.51 | -5.20 | 0.01 | 0.432 | 0.063 | -0.010 | 4.95 | 0190.5 |
| 0200.5 | 276.4 | 0.1 | 5.22 | 0.58 | -5.19 | 0.01 | 0.431 | 0.070 | -0.010 | 4.80 | 0200.5 |
| 0210.5 | 277.2 | 0.1 | 5.22 | 0.66 | -5.18 | 0.01 | 0.431 | 0.076 | -0.010 | 4.65 | 0210.5 |
| 0220.5 | 278.1 | 0.0 | 5.22 | 0.73 | -5.16 | 0.00 | 0.430 | 0.082 | -0.010 | 4.52 | 0220.5 |
| 0230.5 | 278.9 | 0.0 | 5.21 | 0.80 | -5.15 | 0.00 | 0.429 | 0.088 | -0.010 | 4.40 | 0230.5 |
| 0240.5 | 279.7 | 0.0 | 5.21 | 0.88 | -5.13 | 0.00 | 0.428 | 0.095 | -0.010 | 4.31 | 0240.5 |
| 0250.5 | 280.5 | -0.0 | 5.20 | 0.95 | -5.12 | -0.00 | 0.427 | 0.101 | -0.010 | 4.24 | 0250.5 |
| 0260.5 | 281.4 | -0.0 | 5.20 | 1.02 | -5.10 | -0.00 | 0.425 | 0.107 | -0.010 | 4.19 | 0260.5 |
| 0270.5 | 282.2 | -0.0 | 5.20 | 1.10 | -5.08 | -0.00 | 0.424 | 0.113 | -0.010 | 4.18 | 0270.5 |
| 0280.5 | 283.0 | -0.1 | 5.19 | 1.17 | -5.06 | -0.01 | 0.423 | 0.120 | -0.010 | 4.20 | 0280.5 |
| 0290.5 | 283.9 | -0.1 | 5.19 | 1.24 | -5.04 | -0.01 | 0.421 | 0.126 | -0.010 | 4.24 | 0290.5 |
| 0300.5 | 284.7 | -0.1 | 5.19 | 1.32 | -5.02 | -0.01 | 0.420 | 0.132 | -0.010 | 4.31 | 0300.5 |
| 0310.5 | 285.5 | -0.1 | 5.18 | 1.39 | -4.99 | -0.01 | 0.418 | 0.138 | -0.010 | 4.41 | 0310.5 |
| 0320.5 | 286.4 | -0.1 | 5.18 | 1.46 | -4.97 | -0.01 | 0.416 | 0.144 | -0.010 | 4.52 | 0320.5 |
| 0330.5 | 287.2 | -0.2 | 5.17 | 1.53 | -4.94 | -0.01 | 0.414 | 0.151 | -0.010 | 4.65 | 0330.5 |
| 0340.5 | 288.0 | -0.2 | 5.17 | 1.60 | -4.92 | -0.02 | 0.412 | 0.157 | -0.010 | 4.79 | 0340.5 |
| 0350.5 | 288.9 | -0.2 | 5.17 | 1.67 | -4.89 | -0.02 | 0.410 | 0.163 | -0.010 | 4.94 | 0350.5 |
| 0360.5 | 289.7 | -0.2 | 5.16 | 1.74 | -4.86 | -0.02 | 0.408 | 0.169 | -0.010 | 5.10 | 0360.5 |
| 0370.5 | 290.6 | -0.2 | 5.16 | 1.81 | -4.83 | -0.02 | 0.406 | 0.175 | -0.010 | 5.25 | 0370.5 |
| 0380.5 | 291.4 | -0.3 | 5.16 | 1.88 | -4.80 | -0.02 | 0.404 | 0.181 | -0.010 | 5.40 | 0380.5 |
| 0390.5 | 292.3 | -0.3 | 5.15 | 1.95 | -4.77 | -0.02 | 0.401 | 0.187 | -0.010 | 5.54 | 0390.5 |
| 0400.5 | 293.1 | -0.3 | 5.15 | 2.02 | -4.74 | -0.03 | 0.399 | 0.193 | -0.010 | 5.67 | 0400.5 |
| 0410.5 | 294.0 | -0.3 | 5.15 | 2.09 | -4.70 | -0.03 | 0.396 | 0.199 | -0.010 | 5.79 | 0410.5 |
| 0420.5 | 294.8 | -0.3 | 5.14 | 2.16 | -4.67 | -0.03 | 0.393 | 0.205 | -0.010 | 5.89 | 0420.5 |
| 0430.5 | 295.7 | -0.4 | 5.14 | 2.22 | -4.63 | -0.03 | 0.391 | 0.211 | -0.010 | 5.97 | 0430.5 |
| 0440.5 | 296.5 | -0.4 | 5.14 | 2.29 | -4.60 | -0.03 | 0.388 | 0.217 | -0.010 | 6.04 | 0440.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 0450.5 | 297.4 | -0.4 | 5.13 | 2.36 | -4.56 | -0.03 | 0.385 | 0.223 | -0.010 | 6.08 | 0450.5 |
| 0460.5 | 298.2 | -0.4 | 5.13 | 2.42 | -4.52 | -0.04 | 0.382 | 0.228 | -0.009 | 6.11 | 0460.5 |
| 0470.5 | 299.1 | -0.4 | 5.12 | 2.49 | -4.48 | -0.04 | 0.379 | 0.234 | -0.009 | 6.11 | 0470.5 |
| 0480.5 | 299.9 | -0.4 | 5.12 | 2.55 | -4.44 | -0.04 | 0.375 | 0.240 | -0.009 | 6.09 | 0480.5 |
| 0490.5 | 300.8 | -0.5 | 5.12 | 2.62 | -4.40 | -0.04 | 0.372 | 0.245 | -0.009 | 6.05 | 0490.5 |
| 0500.5 | 301.6 | -0.5 | 5.11 | 2.68 | -4.35 | -0.04 | 0.369 | 0.251 | -0.009 | 5.99 | 0500.5 |
| 0510.5 | 302.5 | -0.5 | 5.11 | 2.75 | -4.31 | -0.04 | 0.365 | 0.257 | -0.009 | 5.91 | 0510.5 |
| 0520.5 | 303.4 | -0.5 | 5.11 | 2.81 | -4.27 | -0.05 | 0.362 | 0.262 | -0.009 | 5.81 | 0520.5 |
| 0530.5 | 304.2 | -0.5 | 5.10 | 2.87 | -4.22 | -0.05 | 0.358 | 0.268 | -0.009 | 5.70 | 0530.5 |
| 0540.5 | 305.1 | -0.6 | 5.10 | 2.93 | -4.17 | -0.05 | 0.354 | 0.273 | -0.009 | 5.57 | 0540.5 |
| 0550.5 | 305.9 | -0.6 | 5.10 | 2.99 | -4.13 | -0.05 | 0.350 | 0.278 | -0.009 | 5.43 | 0550.5 |
| 0560.5 | 306.8 | -0.6 | 5.09 | 3.05 | -4.08 | -0.05 | 0.346 | 0.284 | -0.009 | 5.29 | 0560.5 |
| 0570.5 | 307.7 | -0.6 | 5.09 | 3.11 | -4.03 | -0.05 | 0.342 | 0.289 | -0.009 | 5.13 | 0570.5 |
| 0580.5 | 308.5 | -0.6 | 5.09 | 3.17 | -3.98 | -0.06 | 0.338 | 0.294 | -0.009 | 4.97 | 0580.5 |
| 0590.5 | 309.4 | -0.6 | 5.08 | 3.23 | -3.93 | -0.06 | 0.334 | 0.300 | -0.009 | 4.82 | 0590.5 |
| 0600.5 | 310.3 | -0.7 | 5.08 | 3.28 | -3.88 | -0.06 | 0.330 | 0.305 | -0.009 | 4.66 | 0600.5 |
| 0610.5 | 311.2 | -0.7 | 5.08 | 3.34 | -3.82 | -0.06 | 0.325 | 0.310 | -0.009 | 4.52 | 0610.5 |
| 0620.5 | 312.0 | -0.7 | 5.07 | 3.40 | -3.77 | -0.06 | 0.321 | 0.315 | -0.008 | 4.39 | 0620.5 |
| 0630.5 | 312.9 | -0.7 | 5.07 | 3.45 | -3.71 | -0.06 | 0.317 | 0.320 | -0.008 | 4.27 | 0630.5 |
| 0640.5 | 313.8 | -0.7 | 5.07 | 3.51 | -3.66 | -0.06 | 0.312 | 0.325 | -0.008 | 4.17 | 0640.5 |
| 0650.5 | 314.6 | -0.7 | 5.06 | 3.56 | -3.60 | -0.07 | 0.307 | 0.329 | -0.008 | 4.10 | 0650.5 |
| 0660.5 | 315.5 | -0.8 | 5.06 | 3.61 | -3.55 | -0.07 | 0.303 | 0.334 | -0.008 | 4.06 | 0660.5 |
| 0670.5 | 316.4 | -0.8 | 5.06 | 3.66 | -3.49 | -0.07 | 0.298 | 0.339 | -0.008 | 4.04 | 0670.5 |
| 0680.5 | 317.3 | -0.8 | 5.05 | 3.71 | -3.43 | -0.07 | 0.293 | 0.343 | -0.008 | 4.06 | 0680.5 |
| 0690.5 | 318.2 | -0.8 | 5.05 | 3.76 | -3.37 | -0.07 | 0.288 | 0.348 | -0.008 | 4.10 | 0690.5 |
| 0700.5 | 319.0 | -0.8 | 5.05 | 3.81 | -3.31 | -0.07 | 0.283 | 0.352 | -0.008 | 4.17 | 0700.5 |
| 0710.5 | 319.9 | -0.8 | 5.05 | 3.86 | -3.25 | -0.07 | 0.278 | 0.357 | -0.008 | 4.27 | 0710.5 |
| 0720.5 | 320.8 | -0.9 | 5.04 | 3.91 | -3.19 | -0.08 | 0.272 | 0.361 | -0.008 | 4.38 | 0720.5 |
| 0730.5 | 321.7 | -0.9 | 5.04 | 3.95 | -3.12 | -0.08 | 0.267 | 0.365 | -0.007 | 4.52 | 0730.5 |
| 0740.5 | 322.6 | -0.9 | 5.04 | 4.00 | -3.06 | -0.08 | 0.262 | 0.369 | -0.007 | 4.66 | 0740.5 |
| 0750.5 | 323.5 | -0.9 | 5.03 | 4.04 | -3.00 | -0.08 | 0.256 | 0.374 | -0.007 | 4.81 | 0750.5 |
| 0760.5 | 324.3 | -0.9 | 5.03 | 4.09 | -2.93 | -0.08 | 0.251 | 0.378 | -0.007 | 4.97 | 0760.5 |
| 0770.5 | 325.2 | -0.9 | 5.03 | 4.13 | -2.87 | -0.08 | 0.245 | 0.381 | -0.007 | 5.12 | 0770.5 |
| 0780.5 | 326.1 | -0.9 | 5.03 | 4.17 | -2.80 | -0.08 | 0.240 | 0.385 | -0.007 | 5.27 | 0780.5 |
| 0790.5 | 327.0 | -1.0 | 5.02 | 4.21 | -2.73 | -0.08 | 0.234 | 0.389 | -0.007 | 5.41 | 0790.5 |
| 0800.5 | 327.9 | -1.0 | 5.02 | 4.25 | -2.67 | -0.08 | 0.228 | 0.393 | -0.007 | 5.54 | 0800.5 |
| 0810.5 | 328.8 | -1.0 | 5.02 | 4.29 | -2.60 | -0.09 | 0.222 | 0.396 | -0.007 | 5.66 | 0810.5 |
| 0820.5 | 329.7 | -1.0 | 5.02 | 4.33 | -2.53 | -0.09 | 0.216 | 0.400 | -0.006 | 5.76 | 0820.5 |
| 0830.5 | 330.6 | -1.0 | 5.01 | 4.37 | -2.46 | -0.09 | 0.211 | 0.403 | -0.006 | 5.85 | 0830.5 |
| 0840.5 | 331.5 | -1.0 | 5.01 | 4.40 | -2.39 | -0.09 | 0.205 | 0.407 | -0.006 | 5.92 | 0840.5 |
| 0850.5 | 332.4 | -1.0 | 5.01 | 4.44 | -2.32 | -0.09 | 0.198 | 0.410 | -0.006 | 5.96 | 0850.5 |
| 0860.5 | 333.3 | -1.0 | 5.01 | 4.47 | -2.25 | -0.09 | 0.192 | 0.413 | -0.006 | 5.99 | 0860.5 |
| 0870.5 | 334.2 | -1.1 | 5.00 | 4.50 | -2.18 | -0.09 | 0.186 | 0.416 | -0.006 | 5.99 | 0870.5 |
| 0880.5 | 335.1 | -1.1 | 5.00 | 4.53 | -2.11 | -0.09 | 0.180 | 0.419 | -0.006 | 5.98 | 0880.5 |
| 0890.5 | 336.0 | -1.1 | 5.00 | 4.56 | -2.04 | -0.09 | 0.174 | 0.422 | -0.006 | 5.94 | 0890.5 |
| 0900.5 | 336.9 | -1.1 | 5.00 | 4.59 | -1.96 | -0.10 | 0.167 | 0.425 | -0.005 | 5.88 | 0900.5 |
| 0910.5 | 337.8 | -1.1 | 4.99 | 4.62 | -1.89 | -0.10 | 0.161 | 0.427 | -0.005 | 5.81 | 0910.5 |
| 0920.5 | 338.7 | -1.1 | 4.99 | 4.65 | -1.82 | -0.10 | 0.155 | 0.430 | -0.005 | 5.72 | 0920.5 |
| 0930.5 | 339.6 | -1.1 | 4.99 | 4.68 | -1.74 | -0.10 | 0.148 | 0.432 | -0.005 | 5.61 | 0930.5 |
| 0940.5 | 340.5 | -1.1 | 4.99 | 4.70 | -1.67 | -0.10 | 0.142 | 0.435 | -0.005 | 5.49 | 0940.5 |
| 0950.5 | 341.4 | -1.1 | 4.99 | 4.72 | -1.59 | -0.10 | 0.135 | 0.437 | -0.005 | 5.36 | 0950.5 |
| 0960.5 | 342.3 | -1.2 | 4.98 | 4.75 | -1.52 | -0.10 | 0.129 | 0.439 | -0.005 | 5.21 | 0960.5 |
| 0970.5 | 343.2 | -1.2 | 4.98 | 4.77 | -1.44 | -0.10 | 0.122 | 0.441 | -0.004 | 5.06 | 0970.5 |
| 0980.5 | 344.1 | -1.2 | 4.98 | 4.79 | -1.37 | -0.10 | 0.115 | 0.443 | -0.004 | 4.91 | 0980.5 |
| 0990.5 | 345.0 | -1.2 | 4.98 | 4.81 | -1.29 | -0.10 | 0.109 | 0.445 | -0.004 | 4.75 | 0990.5 |
| 1000.5 | 345.9 | -1.2 | 4.98 | 4.83 | -1.21 | -0.10 | 0.102 | 0.447 | -0.004 | 4.60 | 1000.5 |
| 1010.5 | 346.8 | -1.2 | 4.98 | 4.84 | -1.14 | -0.10 | 0.095 | 0.448 | -0.004 | 4.46 | 1010.5 |
| 1020.5 | 347.7 | -1.2 | 4.97 | 4.86 | -1.06 | -0.10 | 0.088 | 0.450 | -0.004 | 4.32 | 1020.5 |
| 1030.5 | 348.6 | -1.2 | 4.97 | 4.87 | -0.98 | -0.11 | 0.082 | 0.451 | -0.004 | 4.21 | 1030.5 |
| 1040.5 | 349.5 | -1.2 | 4.97 | 4.89 | -0.90 | -0.11 | 0.075 | 0.453 | -0.003 | 4.11 | 1040.5 |
| 1050.5 | 350.4 | -1.2 | 4.97 | 4.90 | -0.82 | -0.11 | 0.068 | 0.454 | -0.003 | 4.03 | 1050.5 |
| 1060.5 | 351.4 | -1.2 | 4.97 | 4.91 | -0.75 | -0.11 | 0.061 | 0.455 | -0.003 | 3.98 | 1060.5 |
| 1070.5 | 352.3 | -1.2 | 4.97 | 4.92 | -0.67 | -0.11 | 0.054 | 0.456 | -0.003 | 3.96 | 1070.5 |
| 1080.5 | 353.2 | -1.2 | 4.96 | 4.93 | -0.59 | -0.11 | 0.047 | 0.457 | -0.003 | 3.97 | 1080.5 |
| 1090.5 | 354.1 | -1.3 | 4.96 | 4.94 | -0.51 | -0.11 | 0.040 | 0.457 | -0.003 | 4.01 | 1090.5 |
| 1100.5 | 355.0 | -1.3 | 4.96 | 4.94 | -0.43 | -0.11 | 0.033 | 0.458 | -0.003 | 4.08 | 1100.5 |
| 1110.5 | 355.9 | -1.3 | 4.96 | 4.95 | -0.35 | -0.11 | 0.026 | 0.459 | -0.002 | 4.17 | 1110.5 |
| 1120.5 | 356.8 | -1.3 | 4.96 | 4.95 | -0.27 | -0.11 | 0.019 | 0.459 | -0.002 | 4.29 | 1120.5 |
| 1130.5 | 357.7 | -1.3 | 4.96 | 4.95 | -0.20 | -0.11 | 0.012 | 0.459 | -0.002 | 4.42 | 1130.5 |
| 1140.5 | 358.7 | -1.3 | 4.96 | 4.96 | -0.12 | -0.11 | 0.005 | 0.460 | -0.002 | 4.56 | 1140.5 |
| 1150.5 | 359.6 | -1.3 | 4.96 | 4.96 | -0.04 | -0.11 | -0.002 | 0.460 | -0.002 | 4.72 | 1150.5 |
| 1160.5 | 0.5 | -1.3 | 4.96 | 4.96 | 0.04 | -0.11 | -0.009 | 0.460 | -0.002 | 4.88 | 1160.5 |
| 1170.5 | 1.4 | -1.3 | 4.96 | 4.95 | 0.12 | -0.11 | -0.016 | 0.460 | -0.001 | 5.03 | 1170.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 1180.5 | 2.3 | -1.3 | 4.95 | 4.95 | 0.20 | -0.11 | -0.023 | 0.459 | -0.001 | 5.19 | 1180.5 |
| 1190.5 | 3.2 | -1.3 | 4.95 | 4.95 | 0.28 | -0.11 | -0.030 | 0.459 | -0.001 | 5.33 | 1190.5 |
| 1200.5 | 4.1 | -1.3 | 4.95 | 4.94 | 0.36 | -0.11 | -0.037 | 0.459 | -0.001 | 5.47 | 1200.5 |
| 1210.5 | 5.1 | -1.3 | 4.95 | 4.93 | 0.44 | -0.11 | -0.044 | 0.458 | -0.001 | 5.59 | 1210.5 |
| 1220.5 | 6.0 | -1.3 | 4.95 | 4.92 | 0.52 | -0.11 | -0.051 | 0.457 | -0.001 | 5.69 | 1220.5 |
| 1230.5 | 6.9 | -1.3 | 4.95 | 4.91 | 0.59 | -0.11 | -0.058 | 0.457 | -0.001 | 5.78 | 1230.5 |
| 1240.5 | 7.8 | -1.3 | 4.95 | 4.90 | 0.67 | -0.11 | -0.065 | 0.456 | -0.000 | 5.86 | 1240.5 |
| 1250.5 | 8.7 | -1.3 | 4.95 | 4.89 | 0.75 | -0.11 | -0.072 | 0.455 | -0.000 | 5.91 | 1250.5 |
| 1260.5 | 9.6 | -1.3 | 4.95 | 4.88 | 0.83 | -0.11 | -0.079 | 0.454 | -0.000 | 5.94 | 1260.5 |
| 1270.5 | 10.6 | -1.3 | 4.95 | 4.87 | 0.91 | -0.11 | -0.085 | 0.452 | 0.000 | 5.95 | 1270.5 |
| 1280.5 | 11.5 | -1.3 | 4.95 | 4.85 | 0.98 | -0.11 | -0.092 | 0.451 | 0.000 | 5.94 | 1280.5 |
| 1290.5 | 12.4 | -1.3 | 4.95 | 4.83 | 1.06 | -0.11 | -0.099 | 0.450 | 0.000 | 5.91 | 1290.5 |
| 1300.5 | 13.3 | -1.3 | 4.95 | 4.82 | 1.14 | -0.11 | -0.106 | 0.448 | 0.001 | 5.86 | 1300.5 |
| 1310.5 | 14.2 | -1.3 | 4.95 | 4.80 | 1.22 | -0.11 | -0.113 | 0.446 | 0.001 | 5.80 | 1310.5 |
| 1320.5 | 15.1 | -1.3 | 4.95 | 4.78 | 1.29 | -0.11 | -0.120 | 0.445 | 0.001 | 5.71 | 1320.5 |
| 1330.5 | 16.1 | -1.3 | 4.95 | 4.76 | 1.37 | -0.11 | -0.126 | 0.443 | 0.001 | 5.62 | 1330.5 |
| 1340.5 | 17.0 | -1.3 | 4.95 | 4.73 | 1.45 | -0.11 | -0.133 | 0.441 | 0.001 | 5.50 | 1340.5 |
| 1350.5 | 17.9 | -1.3 | 4.95 | 4.71 | 1.52 | -0.11 | -0.140 | 0.439 | 0.001 | 5.37 | 1350.5 |
| 1360.5 | 18.8 | -1.3 | 4.95 | 4.69 | 1.60 | -0.11 | -0.147 | 0.436 | 0.002 | 5.24 | 1360.5 |
| 1370.5 | 19.7 | -1.3 | 4.95 | 4.66 | 1.67 | -0.11 | -0.153 | 0.434 | 0.002 | 5.09 | 1370.5 |
| 1380.5 | 20.6 | -1.3 | 4.95 | 4.63 | 1.75 | -0.11 | -0.160 | 0.432 | 0.002 | 4.94 | 1380.5 |
| 1390.5 | 21.6 | -1.3 | 4.95 | 4.61 | 1.82 | -0.11 | -0.166 | 0.429 | 0.002 | 4.79 | 1390.5 |
| 1400.5 | 22.5 | -1.3 | 4.95 | 4.58 | 1.89 | -0.11 | -0.173 | 0.426 | 0.002 | 4.64 | 1400.5 |
| 1410.5 | 23.4 | -1.3 | 4.95 | 4.55 | 1.97 | -0.11 | -0.179 | 0.424 | 0.002 | 4.49 | 1410.5 |
| 1420.5 | 24.3 | -1.3 | 4.95 | 4.51 | 2.04 | -0.11 | -0.186 | 0.421 | 0.002 | 4.36 | 1420.5 |
| 1430.5 | 25.2 | -1.3 | 4.96 | 4.48 | 2.11 | -0.11 | -0.192 | 0.418 | 0.003 | 4.23 | 1430.5 |
| 1440.5 | 26.1 | -1.3 | 4.96 | 4.45 | 2.18 | -0.11 | -0.198 | 0.415 | 0.003 | 4.13 | 1440.5 |
| 1450.5 | 27.1 | -1.2 | 4.96 | 4.41 | 2.25 | -0.11 | -0.205 | 0.412 | 0.003 | 4.05 | 1450.5 |
| 1460.5 | 28.0 | -1.2 | 4.96 | 4.38 | 2.32 | -0.11 | -0.211 | 0.409 | 0.003 | 3.99 | 1460.5 |
| 1470.5 | 28.9 | -1.2 | 4.96 | 4.34 | 2.39 | -0.11 | -0.217 | 0.405 | 0.003 | 3.97 | 1470.5 |
| 1480.5 | 29.8 | -1.2 | 4.96 | 4.30 | 2.46 | -0.11 | -0.223 | 0.402 | 0.003 | 3.97 | 1480.5 |
| 1490.5 | 30.7 | -1.2 | 4.96 | 4.26 | 2.53 | -0.11 | -0.229 | 0.398 | 0.004 | 4.01 | 1490.5 |
| 1500.5 | 31.6 | -1.2 | 4.96 | 4.22 | 2.60 | -0.11 | -0.235 | 0.395 | 0.004 | 4.07 | 1500.5 |
| 1510.5 | 32.5 | -1.2 | 4.96 | 4.18 | 2.67 | -0.10 | -0.241 | 0.391 | 0.004 | 4.16 | 1510.5 |
| 1520.5 | 33.4 | -1.2 | 4.96 | 4.14 | 2.74 | -0.10 | -0.247 | 0.387 | 0.004 | 4.27 | 1520.5 |
| 1530.5 | 34.4 | -1.2 | 4.97 | 4.10 | 2.80 | -0.10 | -0.253 | 0.383 | 0.004 | 4.41 | 1530.5 |
| 1540.5 | 35.3 | -1.2 | 4.97 | 4.05 | 2.87 | -0.10 | -0.258 | 0.379 | 0.004 | 4.55 | 1540.5 |
| 1550.5 | 36.2 | -1.2 | 4.97 | 4.01 | 2.93 | -0.10 | -0.264 | 0.375 | 0.004 | 4.71 | 1550.5 |
| 1560.5 | 37.1 | -1.2 | 4.97 | 3.96 | 3.00 | -0.10 | -0.270 | 0.371 | 0.005 | 4.87 | 1560.5 |
| 1570.5 | 38.0 | -1.2 | 4.97 | 3.92 | 3.06 | -0.10 | -0.275 | 0.367 | 0.005 | 5.03 | 1570.5 |
| 1580.5 | 38.9 | -1.1 | 4.97 | 3.87 | 3.12 | -0.10 | -0.281 | 0.362 | 0.005 | 5.18 | 1580.5 |
| 1590.5 | 39.8 | -1.1 | 4.97 | 3.82 | 3.18 | -0.10 | -0.286 | 0.358 | 0.005 | 5.33 | 1590.5 |
| 1600.5 | 40.7 | -1.1 | 4.98 | 3.77 | 3.25 | -0.10 | -0.291 | 0.354 | 0.005 | 5.47 | 1600.5 |
| 1610.5 | 41.6 | -1.1 | 4.98 | 3.72 | 3.31 | -0.10 | -0.297 | 0.349 | 0.005 | 5.60 | 1610.5 |
| 1620.5 | 42.5 | -1.1 | 4.98 | 3.67 | 3.37 | -0.10 | -0.302 | 0.344 | 0.005 | 5.71 | 1620.5 |
| 1630.5 | 43.4 | -1.1 | 4.98 | 3.62 | 3.42 | -0.09 | -0.307 | 0.340 | 0.006 | 5.80 | 1630.5 |
| 1640.5 | 44.3 | -1.1 | 4.98 | 3.56 | 3.48 | -0.09 | -0.312 | 0.335 | 0.006 | 5.88 | 1640.5 |
| 1650.5 | 45.3 | -1.1 | 4.98 | 3.51 | 3.54 | -0.09 | -0.317 | 0.330 | 0.006 | 5.94 | 1650.5 |
| 1660.5 | 46.2 | -1.1 | 4.99 | 3.45 | 3.60 | -0.09 | -0.322 | 0.325 | 0.006 | 5.98 | 1660.5 |
| 1670.5 | 47.1 | -1.0 | 4.99 | 3.40 | 3.65 | -0.09 | -0.326 | 0.320 | 0.006 | 6.00 | 1670.5 |
| 1680.5 | 48.0 | -1.0 | 4.99 | 3.34 | 3.71 | -0.09 | -0.331 | 0.315 | 0.006 | 6.00 | 1680.5 |
| 1690.5 | 48.9 | -1.0 | 4.99 | 3.28 | 3.76 | -0.09 | -0.336 | 0.310 | 0.006 | 5.98 | 1690.5 |
| 1700.5 | 49.8 | -1.0 | 4.99 | 3.23 | 3.81 | -0.09 | -0.340 | 0.304 | 0.006 | 5.93 | 1700.5 |
| 1710.5 | 50.7 | -1.0 | 5.00 | 3.17 | 3.86 | -0.09 | -0.345 | 0.299 | 0.007 | 5.88 | 1710.5 |
| 1720.5 | 51.6 | -1.0 | 5.00 | 3.11 | 3.92 | -0.09 | -0.349 | 0.294 | 0.007 | 5.80 | 1720.5 |
| 1730.5 | 52.5 | -1.0 | 5.00 | 3.05 | 3.97 | -0.08 | -0.353 | 0.288 | 0.007 | 5.71 | 1730.5 |
| 1740.5 | 53.4 | -0.9 | 5.00 | 2.99 | 4.01 | -0.08 | -0.357 | 0.283 | 0.007 | 5.60 | 1740.5 |
| 1750.5 | 54.3 | -0.9 | 5.01 | 2.92 | 4.06 | -0.08 | -0.361 | 0.277 | 0.007 | 5.48 | 1750.5 |
| 1760.5 | 55.2 | -0.9 | 5.01 | 2.86 | 4.11 | -0.08 | -0.365 | 0.272 | 0.007 | 5.34 | 1760.5 |
| 1770.5 | 56.0 | -0.9 | 5.01 | 2.80 | 4.16 | -0.08 | -0.369 | 0.266 | 0.007 | 5.20 | 1770.5 |
| 1780.5 | 56.9 | -0.9 | 5.01 | 2.73 | 4.20 | -0.08 | -0.373 | 0.260 | 0.007 | 5.05 | 1780.5 |
| 1790.5 | 57.8 | -0.9 | 5.02 | 2.67 | 4.25 | -0.08 | -0.377 | 0.255 | 0.007 | 4.90 | 1790.5 |
| 1800.5 | 58.7 | -0.9 | 5.02 | 2.60 | 4.29 | -0.08 | -0.380 | 0.249 | 0.008 | 4.75 | 1800.5 |
| 1810.5 | 59.6 | -0.8 | 5.02 | 2.54 | 4.33 | -0.07 | -0.384 | 0.243 | 0.008 | 4.60 | 1810.5 |
| 1820.5 | 60.5 | -0.8 | 5.02 | 2.47 | 4.37 | -0.07 | -0.387 | 0.237 | 0.008 | 4.46 | 1820.5 |
| 1830.5 | 61.4 | -0.8 | 5.03 | 2.41 | 4.41 | -0.07 | -0.390 | 0.231 | 0.008 | 4.34 | 1830.5 |
| 1840.5 | 62.3 | -0.8 | 5.03 | 2.34 | 4.45 | -0.07 | -0.394 | 0.225 | 0.008 | 4.23 | 1840.5 |
| 1850.5 | 63.2 | -0.8 | 5.03 | 2.27 | 4.49 | -0.07 | -0.397 | 0.219 | 0.008 | 4.15 | 1850.5 |
| 1860.5 | 64.1 | -0.8 | 5.03 | 2.20 | 4.53 | -0.07 | -0.400 | 0.213 | 0.008 | 4.09 | 1860.5 |
| 1870.5 | 64.9 | -0.8 | 5.04 | 2.13 | 4.56 | -0.07 | -0.403 | 0.207 | 0.008 | 4.06 | 1870.5 |
| 1880.5 | 65.8 | -0.7 | 5.04 | 2.06 | 4.60 | -0.06 | -0.406 | 0.201 | 0.008 | 4.06 | 1880.5 |
| 1890.5 | 66.7 | -0.7 | 5.04 | 1.99 | 4.63 | -0.06 | -0.408 | 0.194 | 0.008 | 4.09 | 1890.5 |
| 1900.5 | 67.6 | -0.7 | 5.05 | 1.92 | 4.67 | -0.06 | -0.411 | 0.188 | 0.008 | 4.15 | 1900.5 |
| 245 | | | | | | | | | | | 245 |

# CERES POSITION AND VELOCITY DATA

# FOR THE YEARS 1969-2000

CERES

1969 - 1970
244 0230.5 - 244 0950.5

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 0230.5 | 265.86 | -1.00 | 2.8377 | -0.2047 | -2.8299 | -0.0495 | 0.5703 | -0.0814 | -0.1078 | 3.765 | 244 0230.5 |
| 0240.5 | 267.85 | -1.37 | 2.8449 | -0.1065 | -2.8421 | -0.0680 | 0.5714 | -0.0601 | -0.1074 | 3.725 | 0240.5 |
| 0250.5 | 269.84 | -1.74 | 2.8519 | -0.0082 | -2.8506 | -0.0865 | 0.5718 | -0.0390 | -0.1068 | 3.671 | 0250.5 |
| 0260.5 | 271.81 | -2.10 | 2.8588 | 0.0902 | -2.8555 | -0.1048 | 0.5715 | -0.0179 | -0.1061 | 3.604 | 0260.5 |
| 0270.5 | 273.77 | -2.46 | 2.8656 | 0.1884 | -2.8568 | -0.1230 | 0.5705 | 0.0031 | -0.1053 | 3.525 | 0270.5 |
| 0280.5 | 275.73 | -2.81 | 2.8722 | 0.2864 | -2.8544 | -0.1410 | 0.5688 | 0.0239 | -0.1043 | 3.434 | 0280.5 |
| 0290.5 | 277.68 | -3.16 | 2.8787 | 0.3841 | -2.8486 | -0.1589 | 0.5664 | 0.0445 | -0.1032 | 3.332 | 0290.5 |
| 0300.5 | 279.62 | -3.51 | 2.8850 | 0.4813 | -2.8391 | -0.1765 | 0.5633 | 0.0650 | -0.1020 | 3.221 | 0300.5 |
| 0310.5 | 281.56 | -3.85 | 2.8912 | 0.5778 | -2.8262 | -0.1940 | 0.5595 | 0.0852 | -0.1007 | 3.103 | 0310.5 |
| 0320.5 | 283.48 | -4.18 | 2.8972 | 0.6737 | -2.8098 | -0.2112 | 0.5550 | 0.1052 | -0.0993 | 2.978 | 0320.5 |
| 0330.5 | 285.40 | -4.51 | 2.9030 | 0.7688 | -2.7900 | -0.2281 | 0.5500 | 0.1249 | -0.0977 | 2.849 | 0330.5 |
| 0340.5 | 287.32 | -4.83 | 2.9086 | 0.8629 | -2.7669 | -0.2448 | 0.5442 | 0.1444 | -0.0961 | 2.718 | 0340.5 |
| 0350.5 | 289.23 | -5.14 | 2.9141 | 0.9560 | -2.7404 | -0.2612 | 0.5379 | 0.1636 | -0.0943 | 2.588 | 0350.5 |
| 0360.5 | 291.14 | -5.45 | 2.9193 | 1.0479 | -2.7106 | -0.2772 | 0.5309 | 0.1825 | -0.0924 | 2.460 | 0360.5 |
| 0370.5 | 293.04 | -5.75 | 2.9243 | 1.1386 | -2.6776 | -0.2930 | 0.5234 | 0.2011 | -0.0905 | 2.339 | 0370.5 |
| 0380.5 | 294.93 | -6.04 | 2.9292 | 1.2279 | -2.6414 | -0.3083 | 0.5153 | 0.2193 | -0.0884 | 2.227 | 0380.5 |
| 0390.5 | 296.82 | -6.33 | 2.9338 | 1.3158 | -2.6022 | -0.3234 | 0.5066 | 0.2373 | -0.0863 | 2.129 | 0390.5 |
| 0400.5 | 298.71 | -6.61 | 2.9382 | 1.4022 | -2.5598 | -0.3380 | 0.4974 | 0.2548 | -0.0840 | 2.049 | 0400.5 |
| 0410.5 | 300.60 | -6.88 | 2.9424 | 1.4869 | -2.5145 | -0.3523 | 0.4876 | 0.2720 | -0.0817 | 1.990 | 0410.5 |
| 0420.5 | 302.48 | -7.14 | 2.9464 | 1.5699 | -2.4663 | -0.3661 | 0.4773 | 0.2888 | -0.0792 | 1.955 | 0420.5 |
| 0430.5 | 304.36 | -7.39 | 2.9501 | 1.6511 | -2.4152 | -0.3795 | 0.4665 | 0.3051 | -0.0767 | 1.948 | 0430.5 |
| 0440.5 | 306.23 | -7.64 | 2.9537 | 1.7304 | -2.3613 | -0.3925 | 0.4552 | 0.3211 | -0.0742 | 1.967 | 0440.5 |
| 0450.5 | 308.11 | -7.87 | 2.9570 | 1.8077 | -2.3047 | -0.4050 | 0.4434 | 0.3367 | -0.0715 | 2.014 | 0450.5 |
| 0460.5 | 309.98 | -8.10 | 2.9600 | 1.8829 | -2.2455 | -0.4171 | 0.4311 | 0.3518 | -0.0688 | 2.084 | 0460.5 |
| 0470.5 | 311.85 | -8.32 | 2.9628 | 1.9560 | -2.1837 | -0.4287 | 0.4184 | 0.3664 | -0.0660 | 2.176 | 0470.5 |
| 0480.5 | 313.72 | -8.53 | 2.9654 | 2.0268 | -2.1195 | -0.4398 | 0.4052 | 0.3807 | -0.0631 | 2.285 | 0480.5 |
| 0490.5 | 315.59 | -8.73 | 2.9677 | 2.0954 | -2.0528 | -0.4504 | 0.3917 | 0.3944 | -0.0602 | 2.407 | 0490.5 |
| 0500.5 | 317.46 | -8.92 | 2.9698 | 2.1615 | -1.9838 | -0.4605 | 0.3777 | 0.4077 | -0.0572 | 2.538 | 0500.5 |
| 0510.5 | 319.32 | -9.10 | 2.9717 | 2.2253 | -1.9126 | -0.4701 | 0.3633 | 0.4205 | -0.0541 | 2.675 | 0510.5 |
| 0520.5 | 321.19 | -9.27 | 2.9733 | 2.2865 | -1.8392 | -0.4791 | 0.3485 | 0.4327 | -0.0510 | 2.815 | 0520.5 |
| 0530.5 | 323.05 | -9.43 | 2.9746 | 2.3452 | -1.7637 | -0.4876 | 0.3334 | 0.4445 | -0.0479 | 2.954 | 0530.5 |
| 0540.5 | 324.92 | -9.59 | 2.9757 | 2.4012 | -1.6863 | -0.4956 | 0.3179 | 0.4558 | -0.0446 | 3.091 | 0540.5 |
| 0550.5 | 326.79 | -9.73 | 2.9765 | 2.4545 | -1.6069 | -0.5030 | 0.3020 | 0.4665 | -0.0414 | 3.223 | 0550.5 |
| 0560.5 | 328.66 | -9.86 | 2.9771 | 2.5051 | -1.5258 | -0.5098 | 0.2858 | 0.4768 | -0.0381 | 3.348 | 0560.5 |
| 0570.5 | 330.52 | -9.98 | 2.9775 | 2.5528 | -1.4429 | -0.5161 | 0.2694 | 0.4864 | -0.0347 | 3.464 | 0570.5 |
| 0580.5 | 332.39 | -10.09 | 2.9775 | 2.5977 | -1.3585 | -0.5218 | 0.2526 | 0.4956 | -0.0314 | 3.570 | 0580.5 |
| 0590.5 | 334.26 | -10.19 | 2.9774 | 2.6397 | -1.2725 | -0.5269 | 0.2355 | 0.5041 | -0.0279 | 3.665 | 0590.5 |
| 0600.5 | 336.14 | -10.28 | 2.9770 | 2.6787 | -1.1851 | -0.5314 | 0.2182 | 0.5121 | -0.0245 | 3.747 | 0600.5 |
| 0610.5 | 338.01 | -10.36 | 2.9763 | 2.7147 | -1.0963 | -0.5353 | 0.2006 | 0.5196 | -0.0210 | 3.817 | 0610.5 |
| 0620.5 | 339.89 | -10.43 | 2.9754 | 2.7477 | -1.0063 | -0.5386 | 0.1827 | 0.5265 | -0.0175 | 3.872 | 0620.5 |
| 0630.5 | 341.76 | -10.49 | 2.9742 | 2.7776 | -0.9152 | -0.5413 | 0.1647 | 0.5327 | -0.0140 | 3.912 | 0630.5 |
| 0640.5 | 343.64 | -10.53 | 2.9727 | 2.8044 | -0.8231 | -0.5434 | 0.1464 | 0.5384 | -0.0104 | 3.939 | 0640.5 |
| 0650.5 | 345.53 | -10.57 | 2.9711 | 2.8280 | -0.7300 | -0.5449 | 0.1280 | 0.5435 | -0.0069 | 3.950 | 0650.5 |
| 0660.5 | 347.41 | -10.59 | 2.9691 | 2.8484 | -0.6361 | -0.5458 | 0.1093 | 0.5480 | -0.0033 | 3.946 | 0660.5 |
| 0670.5 | 349.30 | -10.60 | 2.9670 | 2.8656 | -0.5415 | -0.5460 | 0.0905 | 0.5519 | 0.0003 | 3.928 | 0670.5 |
| 0680.5 | 351.19 | -10.61 | 2.9645 | 2.8795 | -0.4463 | -0.5457 | 0.0716 | 0.5551 | 0.0039 | 3.896 | 0680.5 |
| 0690.5 | 353.08 | -10.60 | 2.9619 | 2.8902 | -0.3506 | -0.5447 | 0.0525 | 0.5578 | 0.0075 | 3.850 | 0690.5 |
| 0700.5 | 354.98 | -10.58 | 2.9590 | 2.8976 | -0.2544 | -0.5431 | 0.0333 | 0.5598 | 0.0111 | 3.791 | 0700.5 |
| 0710.5 | 356.88 | -10.54 | 2.9559 | 2.9017 | -0.1580 | -0.5408 | 0.0140 | 0.5611 | 0.0147 | 3.719 | 0710.5 |
| 0720.5 | 358.79 | -10.50 | 2.9525 | 2.9024 | -0.0614 | -0.5380 | -0.0053 | 0.5619 | 0.0183 | 3.635 | 0720.5 |
| 0730.5 | 0.70 | -10.44 | 2.9489 | 2.8998 | 0.0353 | -0.5345 | -0.0248 | 0.5620 | 0.0219 | 3.540 | 0730.5 |
| 0740.5 | 2.61 | -10.38 | 2.9451 | 2.8939 | 0.1319 | -0.5305 | -0.0442 | 0.5614 | 0.0255 | 3.435 | 0740.5 |
| 0750.5 | 4.53 | -10.30 | 2.9410 | 2.8846 | 0.2284 | -0.5258 | -0.0637 | 0.5602 | 0.0291 | 3.321 | 0750.5 |
| 0760.5 | 6.45 | -10.21 | 2.9367 | 2.8720 | 0.3246 | -0.5205 | -0.0832 | 0.5583 | 0.0326 | 3.199 | 0760.5 |
| 0770.5 | 8.37 | -10.11 | 2.9322 | 2.8560 | 0.4204 | -0.5146 | -0.1027 | 0.5558 | 0.0361 | 3.070 | 0770.5 |
| 0780.5 | 10.30 | -9.99 | 2.9275 | 2.8366 | 0.5157 | -0.5080 | -0.1222 | 0.5526 | 0.0396 | 2.937 | 0780.5 |
| 0790.5 | 12.24 | -9.87 | 2.9226 | 2.8139 | 0.6105 | -0.5009 | -0.1416 | 0.5487 | 0.0431 | 2.800 | 0790.5 |
| 0800.5 | 14.18 | -9.73 | 2.9175 | 2.7879 | 0.7045 | -0.4932 | -0.1610 | 0.5442 | 0.0465 | 2.663 | 0800.5 |
| 0810.5 | 16.13 | -9.59 | 2.9122 | 2.7586 | 0.7976 | -0.4849 | -0.1802 | 0.5389 | 0.0499 | 2.527 | 0810.5 |
| 0820.5 | 18.08 | -9.43 | 2.9067 | 2.7259 | 0.8899 | -0.4760 | -0.1994 | 0.5330 | 0.0533 | 2.394 | 0820.5 |
| 0830.5 | 20.04 | -9.26 | 2.9010 | 2.6900 | 0.9810 | -0.4666 | -0.2184 | 0.5265 | 0.0566 | 2.270 | 0830.5 |
| 0840.5 | 22.00 | -9.07 | 2.8952 | 2.6508 | 1.0709 | -0.4566 | -0.2373 | 0.5192 | 0.0599 | 2.156 | 0840.5 |
| 0850.5 | 23.97 | -8.88 | 2.8891 | 2.6083 | 1.1596 | -0.4460 | -0.2560 | 0.5113 | 0.0631 | 2.057 | 0850.5 |
| 0860.5 | 25.94 | -8.68 | 2.8829 | 2.5627 | 1.2468 | -0.4349 | -0.2745 | 0.5027 | 0.0662 | 1.978 | 0860.5 |
| 0870.5 | 27.93 | -8.46 | 2.8765 | 2.5139 | 1.3325 | -0.4232 | -0.2928 | 0.4934 | 0.0693 | 1.922 | 0870.5 |
| 0880.5 | 29.91 | -8.23 | 2.8700 | 2.4620 | 1.4165 | -0.4110 | -0.3108 | 0.4834 | 0.0723 | 1.892 | 0880.5 |
| 0890.5 | 31.91 | -8.00 | 2.8633 | 2.4070 | 1.4988 | -0.3983 | -0.3286 | 0.4728 | 0.0753 | 1.891 | 0890.5 |
| 0900.5 | 33.91 | -7.75 | 2.8565 | 2.3490 | 1.5791 | -0.3851 | -0.3461 | 0.4614 | 0.0782 | 1.918 | 0900.5 |
| 0910.5 | 35.92 | -7.49 | 2.8495 | 2.2879 | 1.6575 | -0.3714 | -0.3633 | 0.4495 | 0.0810 | 1.971 | 0910.5 |
| 0920.5 | 37.94 | -7.22 | 2.8425 | 2.2240 | 1.7337 | -0.3573 | -0.3801 | 0.4368 | 0.0837 | 2.048 | 0920.5 |
| 0930.5 | 39.96 | -6.94 | 2.8353 | 2.1572 | 1.8077 | -0.3427 | -0.3966 | 0.4235 | 0.0863 | 2.144 | 0930.5 |
| 0940.5 | 42.00 | -6.65 | 2.8280 | 2.0876 | 1.8794 | -0.3276 | -0.4127 | 0.4095 | 0.0889 | 2.255 | 0940.5 |
| 0950.5 | 44.04 | -6.35 | 2.8206 | 2.0152 | 1.9486 | -0.3121 | -0.4283 | 0.3949 | 0.0913 | 2.376 | 0950.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 0960.5 | 46.09 | -6.04 | 2.8131 | 1.9402 | 2.0152 | -0.2962 | -0.4435 | 0.3796 | 0.0936 | 2.504 | 0960.5 |
| 0970.5 | 48.14 | -5.73 | 2.8055 | 1.8627 | 2.0792 | -0.2799 | -0.4583 | 0.3638 | 0.0959 | 2.635 | 0970.5 |
| 0980.5 | 50.21 | -5.40 | 2.7978 | 1.7826 | 2.1403 | -0.2632 | -0.4726 | 0.3473 | 0.0980 | 2.766 | 0980.5 |
| 0990.5 | 52.29 | -5.06 | 2.7901 | 1.7001 | 2.1986 | -0.2462 | -0.4863 | 0.3301 | 0.1000 | 2.894 | 0990.5 |
| 1000.5 | 54.37 | -4.72 | 2.7824 | 1.6153 | 2.2539 | -0.2288 | -0.4995 | 0.3124 | 0.1019 | 3.017 | 1000.5 |
| 1010.5 | 56.47 | -4.36 | 2.7746 | 1.5283 | 2.3061 | -0.2111 | -0.5121 | 0.2941 | 0.1037 | 3.133 | 1010.5 |
| 1020.5 | 58.57 | -4.00 | 2.7667 | 1.4392 | 2.3550 | -0.1931 | -0.5241 | 0.2753 | 0.1053 | 3.241 | 1020.5 |
| 1030.5 | 60.69 | -3.63 | 2.7589 | 1.3480 | 2.4007 | -0.1749 | -0.5355 | 0.2559 | 0.1068 | 3.340 | 1030.5 |
| 1040.5 | 62.81 | -3.26 | 2.7510 | 1.2550 | 2.4430 | -0.1564 | -0.5462 | 0.2360 | 0.1082 | 3.428 | 1040.5 |
| 1050.5 | 64.95 | -2.88 | 2.7431 | 1.1602 | 2.4819 | -0.1377 | -0.5562 | 0.2155 | 0.1094 | 3.505 | 1050.5 |
| 1060.5 | 67.09 | -2.49 | 2.7353 | 1.0637 | 2.5172 | -0.1188 | -0.5655 | 0.1946 | 0.1105 | 3.571 | 1060.5 |
| 1070.5 | 69.25 | -2.09 | 2.7274 | 0.9657 | 2.5488 | -0.0997 | -0.5741 | 0.1732 | 0.1114 | 3.624 | 1070.5 |
| 1080.5 | 71.42 | -1.70 | 2.7196 | 0.8662 | 2.5767 | -0.0805 | -0.5819 | 0.1514 | 0.1121 | 3.665 | 1080.5 |
| 1090.5 | 73.60 | -1.29 | 2.7119 | 0.7655 | 2.6009 | -0.0611 | -0.5889 | 0.1292 | 0.1128 | 3.693 | 1090.5 |
| 1100.5 | 75.79 | -0.88 | 2.7042 | 0.6637 | 2.6212 | -0.0417 | -0.5951 | 0.1065 | 0.1132 | 3.708 | 1100.5 |
| 1110.5 | 78.00 | -0.47 | 2.6966 | 0.5608 | 2.6375 | -0.0222 | -0.6004 | 0.0836 | 0.1135 | 3.711 | 1110.5 |
| 1120.5 | 80.21 | -0.06 | 2.6890 | 0.4572 | 2.6499 | -0.0027 | -0.6049 | 0.0603 | 0.1136 | 3.702 | 1120.5 |
| 1130.5 | 82.44 | 0.36 | 2.6816 | 0.3528 | 2.6582 | 0.0169 | -0.6085 | 0.0367 | 0.1135 | 3.679 | 1130.5 |
| 1140.5 | 84.68 | 0.78 | 2.6743 | 0.2479 | 2.6625 | 0.0364 | -0.6112 | 0.0129 | 0.1133 | 3.645 | 1140.5 |
| 1150.5 | 86.94 | 1.20 | 2.6670 | 0.1426 | 2.6626 | 0.0558 | -0.6129 | -0.0112 | 0.1129 | 3.599 | 1150.5 |
| 1160.5 | 89.20 | 1.62 | 2.6600 | 0.0370 | 2.6586 | 0.0752 | -0.6138 | -0.0354 | 0.1123 | 3.541 | 1160.5 |
| 1170.5 | 91.48 | 2.04 | 2.6530 | -0.0685 | 2.6504 | 0.0945 | -0.6136 | -0.0598 | 0.1115 | 3.473 | 1170.5 |
| 1180.5 | 93.77 | 2.46 | 2.6462 | -0.1740 | 2.6381 | 0.1136 | -0.6125 | -0.0842 | 0.1105 | 3.393 | 1180.5 |
| 1190.5 | 96.08 | 2.88 | 2.6396 | -0.2792 | 2.6215 | 0.1325 | -0.6104 | -0.1087 | 0.1094 | 3.303 | 1190.5 |
| 1200.5 | 98.40 | 3.29 | 2.6332 | -0.3840 | 2.6006 | 0.1512 | -0.6073 | -0.1333 | 0.1081 | 3.204 | 1200.5 |
| 1210.5 | 100.73 | 3.70 | 2.6269 | -0.4881 | 2.5756 | 0.1696 | -0.6031 | -0.1577 | 0.1065 | 3.097 | 1210.5 |
| 1220.5 | 103.08 | 4.11 | 2.6209 | -0.5914 | 2.5464 | 0.1878 | -0.5980 | -0.1821 | 0.1048 | 2.981 | 1220.5 |
| 1230.5 | 105.43 | 4.51 | 2.6151 | -0.6938 | 2.5130 | 0.2057 | -0.5918 | -0.2064 | 0.1029 | 2.858 | 1230.5 |
| 1240.5 | 107.80 | 4.91 | 2.6095 | -0.7950 | 2.4754 | 0.2232 | -0.5846 | -0.2305 | 0.1009 | 2.730 | 1240.5 |
| 1250.5 | 110.19 | 5.30 | 2.6041 | -0.8948 | 2.4337 | 0.2404 | -0.5764 | -0.2543 | 0.0986 | 2.598 | 1250.5 |
| 1260.5 | 112.58 | 5.68 | 2.5990 | -0.9932 | 2.3879 | 0.2572 | -0.5672 | -0.2779 | 0.0962 | 2.463 | 1260.5 |
| 1270.5 | 114.99 | 6.05 | 2.5941 | -1.0899 | 2.3381 | 0.2735 | -0.5570 | -0.3011 | 0.0936 | 2.328 | 1270.5 |
| 1280.5 | 117.41 | 6.42 | 2.5895 | -1.1848 | 2.2843 | 0.2893 | -0.5457 | -0.3239 | 0.0908 | 2.194 | 1280.5 |
| 1290.5 | 119.85 | 6.77 | 2.5852 | -1.2776 | 2.2267 | 0.3047 | -0.5335 | -0.3463 | 0.0879 | 2.066 | 1290.5 |
| 1300.5 | 122.29 | 7.11 | 2.5812 | -1.3683 | 2.1652 | 0.3196 | -0.5203 | -0.3682 | 0.0847 | 1.945 | 1300.5 |
| 1310.5 | 124.75 | 7.44 | 2.5774 | -1.4566 | 2.1000 | 0.3339 | -0.5061 | -0.3896 | 0.0815 | 1.836 | 1310.5 |
| 1320.5 | 127.21 | 7.76 | 2.5740 | -1.5424 | 2.0312 | 0.3476 | -0.4910 | -0.4104 | 0.0780 | 1.743 | 1320.5 |
| 1330.5 | 129.69 | 8.07 | 2.5709 | -1.6255 | 1.9589 | 0.3607 | -0.4750 | -0.4306 | 0.0745 | 1.670 | 1330.5 |
| 1340.5 | 132.17 | 8.36 | 2.5681 | -1.7058 | 1.8831 | 0.3732 | -0.4581 | -0.4501 | 0.0707 | 1.621 | 1340.5 |
| 1350.5 | 134.66 | 8.63 | 2.5656 | -1.7831 | 1.8041 | 0.3850 | -0.4404 | -0.4688 | 0.0669 | 1.599 | 1350.5 |
| 1360.5 | 137.17 | 8.89 | 2.5634 | -1.8572 | 1.7219 | 0.3962 | -0.4218 | -0.4868 | 0.0629 | .604 | 1360.5 |
| 1370.5 | 139.68 | 9.13 | 2.5616 | -1.9281 | 1.6366 | 0.4067 | -0.4025 | -0.5040 | 0.0588 | .635 | 1370.5 |
| 1380.5 | 142.19 | 9.36 | 2.5601 | -1.9957 | 1.5485 | 0.4164 | -0.3824 | -0.5203 | 0.0546 | 1.691 | 1380.5 |
| 1390.5 | 144.71 | 9.57 | 2.5589 | -2.0597 | 1.4577 | 0.4254 | -0.3616 | -0.5357 | 0.0503 | 1.768 | 1390.5 |
| 1400.5 | 147.24 | 9.76 | 2.5581 | -2.1200 | 1.3643 | 0.4337 | -0.3401 | -0.5502 | 0.0458 | 1.862 | 1400.5 |
| 1410.5 | 149.77 | 9.93 | 2.5576 | -2.1766 | 1.2684 | 0.4412 | -0.3180 | -0.5637 | 0.0413 | 1.968 | 1410.5 |
| 1420.5 | 152.30 | 10.09 | 2.5574 | -2.2294 | 1.1704 | 0.4479 | -0.2954 | -0.5763 | 0.0368 | 2.083 | 1420.5 |
| 1430.5 | 154.84 | 10.22 | 2.5577 | -2.2782 | 1.0702 | 0.4538 | -0.2722 | -0.5878 | 0.0321 | 2.203 | 1430.5 |
| 1440.5 | 157.37 | 10.34 | 2.5582 | -2.3230 | 0.9682 | 0.4590 | -0.2485 | -0.5983 | 0.0274 | 2.327 | 1440.5 |
| 1450.5 | 159.91 | 10.43 | 2.5591 | -2.3637 | 0.8644 | 0.4633 | -0.2245 | -0.6077 | 0.0227 | 2.451 | 1450.5 |
| 1460.5 | 162.45 | 10.50 | 2.5603 | -2.4002 | 0.7592 | 0.4668 | -0.2000 | -0.6160 | 0.0179 | 2.574 | 1460.5 |
| 1470.5 | 164.98 | 10.56 | 2.5619 | -2.4325 | 0.6526 | 0.4694 | -0.1753 | -0.6233 | 0.0131 | 2.694 | 1470.5 |
| 1480.5 | 167.51 | 10.59 | 2.5638 | -2.4605 | 0.5448 | 0.4713 | -0.1503 | -0.6294 | 0.0083 | 2.810 | 1480.5 |
| 1490.5 | 170.04 | 10.61 | 2.5660 | -2.4842 | 0.4361 | 0.4723 | -0.1251 | -0.6344 | 0.0035 | 2.922 | 1490.5 |
| 1500.5 | 172.57 | 10.60 | 2.5686 | -2.5035 | 0.3266 | 0.4725 | -0.0997 | -0.6383 | -0.0013 | 3.027 | 1500.5 |
| 1510.5 | 175.09 | 10.57 | 2.5714 | -2.5185 | 0.2166 | 0.4719 | -0.0742 | -0.6410 | -0.0061 | 3.125 | 1510.5 |
| 1520.5 | 177.60 | 10.53 | 2.5746 | -2.5290 | 0.1061 | 0.4704 | -0.0488 | -0.6426 | -0.0108 | 3.215 | 1520.5 |
| 1530.5 | 180.10 | 10.46 | 2.5781 | -2.5352 | -0.0045 | 0.4681 | -0.0233 | -0.6432 | -0.0156 | 3.298 | 1530.5 |
| 1540.5 | 182.60 | 10.38 | 2.5819 | -2.5371 | -0.1151 | 0.4651 | 0.0021 | -0.6426 | -0.0202 | 3.371 | 1540.5 |
| 1550.5 | 185.08 | 10.27 | 2.5860 | -2.5345 | -0.2255 | 0.4612 | 0.0274 | -0.6409 | -0.0248 | 3.435 | 1550.5 |
| 1560.5 | 187.56 | 10.15 | 2.5903 | -2.5276 | -0.3355 | 0.4565 | 0.0525 | -0.6381 | -0.0296 | 3.490 | 1560.5 |
| 1570.5 | 190.03 | 10.01 | 2.5950 | -2.5164 | -0.4449 | 0.4511 | 0.0774 | -0.6342 | -0.0339 | 3.534 | 1570.5 |
| 1580.5 | 192.48 | 9.85 | 2.5999 | -2.5010 | -0.5536 | 0.4449 | 0.1021 | -0.6293 | -0.0383 | 3.567 | 1580.5 |
| 1590.5 | 194.92 | 9.68 | 2.6051 | -2.4814 | -0.6614 | 0.4379 | 0.1264 | -0.6234 | -0.0426 | 3.589 | 1590.5 |
| 1600.5 | 197.36 | 9.49 | 2.6105 | -2.4575 | -0.7680 | 0.4302 | 0.1503 | -0.6165 | -0.0468 | 3.599 | 1600.5 |
| 1610.5 | 199.77 | 9.28 | 2.6161 | -2.4297 | -0.8734 | 0.4218 | 0.1739 | -0.6085 | -0.0509 | 3.598 | 1610.5 |
| 1620.5 | 202.18 | 9.06 | 2.6220 | -2.3977 | -0.9774 | 0.4127 | 0.1970 | -0.5997 | -0.0549 | 3.584 | 1620.5 |
| 1630.5 | 204.57 | 8.82 | 2.6280 | -2.3619 | -1.0797 | 0.4029 | 0.2197 | -0.5899 | -0.0588 | 3.559 | 1630.5 |
| 1640.5 | 206.94 | 8.57 | 2.6343 | -2.3222 | -1.1803 | 0.3925 | 0.2418 | -0.5792 | -0.0625 | 3.521 | 1640.5 |
| 1650.5 | 209.30 | 8.30 | 2.6408 | -2.2787 | -1.2789 | 0.3814 | 0.2633 | -0.5677 | -0.0662 | 3.471 | 1650.5 |
| 1660.5 | 211.65 | 8.03 | 2.6474 | -2.2316 | -1.3755 | 0.3698 | 0.2843 | -0.5553 | -0.0697 | 3.410 | 1660.5 |
| 1670.5 | 213.98 | 7.74 | 2.6543 | -2.1810 | -1.4699 | 0.3575 | 0.3047 | -0.5422 | -0.0730 | 3.337 | 1670.5 |
| 1680.5 | 216.29 | 7.44 | 2.6612 | -2.1268 | -1.5620 | 0.3446 | 0.3245 | -0.5283 | -0.0762 | 3.253 | 1680.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 1690.5 | 218.59 | 7.13 | 2.6683 | -2.0694 | -1.6517 | 0.3313 | 0.3435 | -0.5137 | -0.0793 | 3.159 | 244 1690.5 |
| 1700.5 | 220.88 | 6.81 | 2.6756 | -2.0087 | -1.7387 | 0.3174 | 0.3619 | -0.4984 | -0.0822 | 3.056 | 1700.5 |
| 1710.5 | 223.15 | 6.48 | 2.6829 | -1.9449 | -1.8231 | 0.3030 | 0.3796 | -0.4825 | -0.0850 | 2.945 | 1710.5 |
| 1720.5 | 225.40 | 6.15 | 2.6904 | -1.8781 | -1.9047 | 0.2881 | 0.3966 | -0.4660 | -0.0876 | 2.827 | 1720.5 |
| 1730.5 | 227.64 | 5.80 | 2.6979 | -1.8085 | -1.9834 | 0.2728 | 0.4128 | -0.4488 | -0.0901 | 2.704 | 1730.5 |
| 1740.5 | 229.86 | 5.45 | 2.7056 | -1.7362 | -2.0591 | 0.2571 | 0.4282 | -0.4312 | -0.0924 | 2.578 | 1740.5 |
| 1750.5 | 232.07 | 5.10 | 2.7133 | -1.6612 | -2.1317 | 0.2411 | 0.4429 | -0.4131 | -0.0946 | 2.450 | 1750.5 |
| 1760.5 | 234.26 | 4.73 | 2.7210 | -1.5838 | -2.2012 | 0.2246 | 0.4568 | -0.3945 | -0.0966 | 2.324 | 1760.5 |
| 1770.5 | 236.44 | 4.37 | 2.7288 | -1.5041 | -2.2674 | 0.2078 | 0.4700 | -0.3755 | -0.0984 | 2.202 | 1770.5 |
| 1780.5 | 238.61 | 4.00 | 2.7367 | -1.4222 | -2.3303 | 0.1908 | 0.4823 | -0.3561 | -0.1001 | 2.088 | 1780.5 |
| 1790.5 | 240.75 | 3.62 | 2.7445 | -1.3382 | -2.3899 | 0.1734 | 0.4938 | -0.3364 | -0.1016 | 1.985 | 1790.5 |
| 1800.5 | 242.89 | 3.25 | 2.7524 | -1.2523 | -2.4461 | 0.1558 | 0.5046 | -0.3164 | -0.1030 | 1.898 | 1800.5 |
| 1810.5 | 245.01 | 2.87 | 2.7603 | -1.1646 | -2.4987 | 0.1380 | 0.5145 | -0.2961 | -0.1042 | 1.830 | 1810.5 |
| 1820.5 | 247.12 | 2.48 | 2.7681 | -1.0753 | -2.5479 | 0.1200 | 0.5236 | -0.2755 | -0.1052 | 1.785 | 1820.5 |
| 1830.5 | 249.21 | 2.10 | 2.7760 | -0.9845 | -2.5935 | 0.1018 | 0.5320 | -0.2547 | -0.1061 | 1.766 | 1830.5 |
| 1840.5 | 251.29 | 1.72 | 2.7838 | -0.8924 | -2.6355 | 0.0835 | 0.5395 | -0.2338 | -0.1069 | 1.774 | 1840.5 |
| 1850.5 | 253.36 | 1.34 | 2.7915 | -0.7990 | -2.6740 | 0.0651 | 0.5462 | -0.2127 | -0.1075 | 1.810 | 1850.5 |
| 1860.5 | 255.42 | 0.95 | 2.7992 | -0.7045 | -2.7087 | 0.0465 | 0.5521 | -0.1915 | -0.1079 | 1.872 | 1860.5 |
| 1870.5 | 257.47 | 0.57 | 2.8069 | -0.6091 | -2.7398 | 0.0279 | 0.5572 | -0.1702 | -0.1082 | 1.956 | 1870.5 |
| 1880.5 | 259.50 | 0.19 | 2.8144 | -0.5128 | -2.7673 | 0.0093 | 0.5616 | -0.1489 | -0.1083 | 2.058 | 1880.5 |
| 1890.5 | 261.52 | -0.19 | 2.8219 | -0.4159 | -2.7911 | -0.0093 | 0.5652 | -0.1275 | -0.1083 | 2.176 | 1890.5 |
| 1900.5 | 263.54 | -0.57 | 2.8293 | -0.3184 | -2.8112 | -0.0279 | 0.5680 | -0.1062 | -0.1082 | 2.304 | 1900.5 |
| 1910.5 | 265.54 | -0.94 | 2.8366 | -0.2205 | -2.8276 | -0.0465 | 0.5700 | -0.0849 | -0.1079 | 2.440 | 1910.5 |
| 1920.5 | 267.53 | -1.31 | 2.8438 | -0.1224 | -2.8404 | -0.0651 | 0.5713 | -0.0636 | -0.1075 | 2.580 | 1920.5 |
| 1930.5 | 269.52 | -1.68 | 2.8508 | -0.0240 | -2.8495 | -0.0835 | 0.5718 | -0.0424 | -0.1069 | 2.722 | 1930.5 |
| 1940.5 | 271.49 | -2.04 | 2.8577 | 0.0743 | -2.8550 | -0.1018 | 0.5716 | -0.0213 | -0.1062 | 2.863 | 1940.5 |
| 1950.5 | 273.46 | -2.40 | 2.8645 | 0.1726 | -2.8568 | -0.1201 | 0.5707 | -0.0003 | -0.1054 | 3.002 | 1950.5 |
| 1960.5 | 275.42 | -2.76 | 2.8712 | 0.2706 | -2.8551 | -0.1381 | 0.5691 | 0.0205 | -0.1045 | 3.135 | 1960.5 |
| 1970.5 | 277.37 | -3.11 | 2.8777 | 0.3684 | -2.8498 | -0.1560 | 0.5668 | 0.0412 | -0.1034 | 3.262 | 1970.5 |
| 1980.5 | 279.31 | -3.45 | 2.8840 | 0.4656 | -2.8409 | -0.1737 | 0.5638 | 0.0617 | -0.1022 | 3.381 | 1980.5 |
| 1990.5 | 281.24 | -3.79 | 2.8902 | 0.5623 | -2.8285 | -0.1912 | 0.5601 | 0.0819 | -0.1009 | 3.491 | 1990.5 |
| 2000.5 | 283.17 | -4.13 | 2.8962 | 0.6583 | -2.8127 | -0.2084 | 0.5558 | 0.1020 | -0.0995 | 3.589 | 2000.5 |
| 2010.5 | 285.09 | -4.45 | 2.9021 | 0.7535 | -2.7935 | -0.2254 | 0.5508 | 0.1218 | -0.0980 | 3.676 | 2010.5 |
| 2020.5 | 287.01 | -4.78 | 2.9077 | 0.8477 | -2.7708 | -0.2421 | 0.5452 | 0.1413 | -0.0963 | 3.751 | 2020.5 |
| 2030.5 | 288.92 | -5.09 | 2.9132 | 0.9410 | -2.7449 | -0.2585 | 0.5390 | 0.1605 | -0.0946 | 3.811 | 2030.5 |
| 2040.5 | 290.83 | -5.40 | 2.9185 | 1.0331 | -2.7156 | -0.2746 | 0.5321 | 0.1795 | -0.0927 | 3.858 | 2040.5 |
| 2050.5 | 292.73 | -5.70 | 2.9235 | 1.1240 | -2.6831 | -0.2904 | 0.5247 | 0.1981 | -0.0908 | 3.890 | 2050.5 |
| 2060.5 | 294.63 | -6.00 | 2.9284 | 1.2136 | -2.6475 | -0.3059 | 0.5166 | 0.2164 | -0.0887 | 3.907 | 2060.5 |
| 2070.5 | 296.52 | -6.28 | 2.9331 | 1.3018 | -2.6087 | -0.3210 | 0.5080 | 0.2344 | -0.0866 | 3.909 | 2070.5 |
| 2080.5 | 298.41 | -6.56 | 2.9375 | 1.3884 | -2.5669 | -0.3357 | 0.4989 | 0.2520 | -0.0844 | 3.896 | 2080.5 |
| 2090.5 | 300.29 | -6.83 | 2.9418 | 1.4734 | -2.5220 | -0.3500 | 0.4892 | 0.2692 | -0.0821 | 3.868 | 2090.5 |
| 2100.5 | 302.18 | -7.10 | 2.9458 | 1.5566 | -2.4743 | -0.3639 | 0.4790 | 0.2861 | -0.0796 | 3.826 | 2100.5 |
| 2110.5 | 304.05 | -7.35 | 2.9496 | 1.6381 | -2.4236 | -0.3774 | 0.4683 | 0.3025 | -0.0772 | 3.770 | 2110.5 |
| 2120.5 | 305.93 | -7.60 | 2.9531 | 1.7177 | -2.3702 | -0.3904 | 0.4570 | 0.3186 | -0.0746 | 3.701 | 2120.5 |
| 2130.5 | 307.81 | -7.84 | 2.9564 | 1.7953 | -2.3141 | -0.4030 | 0.4453 | 0.3342 | -0.0719 | 3.619 | 2130.5 |
| 2140.5 | 309.68 | -8.06 | 2.9595 | 1.8709 | -2.2553 | -0.4152 | 0.4331 | 0.3494 | -0.0692 | 3.526 | 2140.5 |
| 2150.5 | 311.55 | -8.28 | 2.9624 | 1.9443 | -2.1939 | -0.4268 | 0.4205 | 0.3641 | -0.0664 | 3.423 | 2150.5 |
| 2160.5 | 313.42 | -8.50 | 2.9650 | 2.0155 | -2.1300 | -0.4380 | 0.4074 | 0.3784 | -0.0636 | 3.310 | 2160.5 |
| 2170.5 | 315.29 | -8.70 | 2.9674 | 2.0845 | -2.0637 | -0.4487 | 0.3939 | 0.3922 | -0.0606 | 3.190 | 2170.5 |
| 2180.5 | 317.15 | -8.89 | 2.9695 | 2.1510 | -1.9951 | -0.4589 | 0.3800 | 0.4056 | -0.0577 | 3.064 | 2180.5 |
| 2190.5 | 319.02 | -9.07 | 2.9714 | 2.2152 | -1.9242 | -0.4686 | 0.3656 | 0.4184 | -0.0546 | 2.933 | 2190.5 |
| 2200.5 | 320.89 | -9.25 | 2.9730 | 2.2768 | -1.8512 | -0.4777 | 0.3509 | 0.4308 | -0.0515 | 2.801 | 2200.5 |
| 2210.5 | 322.75 | -9.41 | 2.9744 | 2.3359 | -1.7760 | -0.4863 | 0.3358 | 0.4427 | -0.0484 | 2.668 | 2210.5 |
| 2220.5 | 324.62 | -9.56 | 2.9755 | 2.3923 | -1.6989 | -0.4943 | 0.3204 | 0.4540 | -0.0452 | 2.539 | 2220.5 |
| 2230.5 | 326.49 | -9.71 | 2.9764 | 2.4461 | -1.6199 | -0.5018 | 0.3046 | 0.4648 | -0.0419 | 2.415 | 2230.5 |
| 2240.5 | 328.35 | -9.84 | 2.9771 | 2.4971 | -1.5390 | -0.5087 | 0.2885 | 0.4751 | -0.0386 | 2.300 | 2240.5 |
| 2250.5 | 330.22 | -9.96 | 2.9774 | 2.5453 | -1.4564 | -0.5151 | 0.2720 | 0.4849 | -0.0353 | 2.198 | 2250.5 |
| 2260.5 | 332.09 | -10.07 | 2.9776 | 2.5907 | -1.3722 | -0.5209 | 0.2553 | 0.4941 | -0.0319 | 2.112 | 2260.5 |
| 2270.5 | 333.96 | -10.18 | 2.9774 | 2.6331 | -1.2865 | -0.5261 | 0.2383 | 0.5028 | -0.0285 | 2.047 | 2270.5 |
| 2280.5 | 335.83 | -10.27 | 2.9770 | 2.6726 | -1.1993 | -0.5307 | 0.2210 | 0.5109 | -0.0250 | 2.006 | 2280.5 |
| 2290.5 | 337.71 | -10.35 | 2.9764 | 2.7091 | -1.1107 | -0.5347 | 0.2034 | 0.5184 | -0.0216 | 1.992 | 2290.5 |
| 2300.5 | 339.58 | -10.42 | 2.9755 | 2.7426 | -1.0209 | -0.5381 | 0.1856 | 0.5254 | -0.0181 | 2.004 | 2300.5 |
| 2310.5 | 341.46 | -10.48 | 2.9744 | 2.7730 | -0.9300 | -0.5409 | 0.1676 | 0.5318 | -0.0145 | 2.044 | 2310.5 |
| 2320.5 | 343.34 | -10.53 | 2.9730 | 2.8003 | -0.8380 | -0.5431 | 0.1494 | 0.5375 | -0.0110 | 2.108 | 2320.5 |
| 2330.5 | 345.22 | -10.56 | 2.9714 | 2.8244 | -0.7451 | -0.5447 | 0.1310 | 0.5427 | -0.0074 | 2.194 | 2330.5 |
| 2340.5 | 347.11 | -10.59 | 2.9695 | 2.8453 | -0.6513 | -0.5457 | 0.1124 | 0.5473 | -0.0039 | 2.297 | 2340.5 |
| 2350.5 | 348.99 | -10.60 | 2.9673 | 2.8630 | -0.5568 | -0.5460 | 0.0936 | 0.5513 | -0.0003 | 2.414 | 2350.5 |
| 2360.5 | 350.88 | -10.61 | 2.9650 | 2.8775 | -0.4617 | -0.5458 | 0.0747 | 0.5546 | 0.0033 | 2.541 | 2360.5 |
| 2370.5 | 352.78 | -10.60 | 2.9623 | 2.8887 | -0.3660 | -0.5449 | 0.0556 | 0.5574 | 0.0069 | 2.674 | 2370.5 |
| 2380.5 | 354.68 | -10.58 | 2.9595 | 2.8966 | -0.2700 | -0.5434 | 0.0364 | 0.5595 | 0.0105 | 2.810 | 2380.5 |
| 2390.5 | 356.58 | -10.55 | 2.9564 | 2.9012 | -0.1736 | -0.5412 | 0.0172 | 0.5610 | 0.0141 | 2.946 | 2390.5 |
| 2400.5 | 358.48 | -10.51 | 2.9530 | 2.9025 | -0.0770 | -0.5385 | -0.0022 | 0.5618 | 0.0177 | 3.078 | 2400.5 |
| 2410.5 | 0.39 | -10.45 | 2.9495 | 2.9005 | 0.0196 | -0.5351 | -0.0216 | 0.5620 | 0.0213 | 3.206 | 2410.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 2420.5 | 2.30 | -10.39 | 2.9457 | 2.8951 | 0.1163 | -0.5312 | -0.0411 | 0.5615 | 0.0249 | 3.326 | 2420.5 |
| 2430.5 | 4.22 | -10.31 | 2.9417 | 2.8863 | 0.2128 | -0.5266 | -0.0606 | 0.5604 | 0.0285 | 3.438 | 2430.5 |
| 2440.5 | 6.14 | -10.22 | 2.9374 | 2.8742 | 0.3091 | -0.5214 | -0.0801 | 0.5586 | 0.0320 | 3.539 | 2440.5 |
| 2450.5 | 8.06 | -10.12 | 2.9330 | 2.8588 | 0.4050 | -0.5155 | -0.0996 | 0.5562 | 0.0356 | 3.629 | 2450.5 |
| 2460.5 | 9.99 | -10.01 | 2.9283 | 2.8400 | 0.5004 | -0.5091 | -0.1191 | 0.5531 | 0.0391 | 3.707 | 2460.5 |
| 2470.5 | 11.93 | -9.89 | 2.9234 | 2.8178 | 0.5952 | -0.5021 | -0.1385 | 0.5494 | 0.0425 | 3.772 | 2470.5 |
| 2480.5 | 13.87 | -9.76 | 2.9184 | 2.7923 | 0.6894 | -0.4945 | -0.1579 | 0.5449 | 0.0460 | 3.823 | 2480.5 |
| 2490.5 | 15.81 | -9.61 | 2.9131 | 2.7635 | 0.7827 | -0.4863 | -0.1771 | 0.5398 | 0.0494 | 3.860 | 2490.5 |
| 2500.5 | 17.76 | -9.45 | 2.9076 | 2.7314 | 0.8750 | -0.4775 | -0.1963 | 0.5340 | 0.0527 | 3.884 | 2500.5 |
| 2510.5 | 19.72 | -9.28 | 2.9020 | 2.6960 | 0.9664 | -0.4682 | -0.2154 | 0.5276 | 0.0561 | 3.893 | 2510.5 |
| 2520.5 | 21.68 | -9.10 | 2.8961 | 2.6573 | 1.0565 | -0.4582 | -0.2343 | 0.5204 | 0.0593 | 3.888 | 2520.5 |
| 2530.5 | 23.65 | -8.91 | 2.8901 | 2.6154 | 1.1454 | -0.4477 | -0.2530 | 0.5126 | 0.0625 | 3.869 | 2530.5 |
| 2540.5 | 25.62 | -8.71 | 2.8839 | 2.5703 | 1.2328 | -0.4367 | -0.2715 | 0.5041 | 0.0657 | 3.836 | 2540.5 |
| 2550.5 | 27.61 | -8.50 | 2.8776 | 2.5220 | 1.3188 | -0.4251 | -0.2898 | 0.4949 | 0.0688 | 3.790 | 2550.5 |
| 2560.5 | 29.59 | -8.27 | 2.8711 | 2.4706 | 1.4031 | -0.4130 | -0.3079 | 0.4851 | 0.0718 | 3.731 | 2560.5 |
| 2570.5 | 31.59 | -8.04 | 2.8644 | 2.4161 | 1.4856 | -0.4004 | -0.3258 | 0.4745 | 0.0748 | 3.660 | 2570.5 |
| 2580.5 | 33.59 | -7.79 | 2.8576 | 2.3585 | 1.5663 | -0.3873 | -0.3433 | 0.4633 | 0.0777 | 3.577 | 2580.5 |
| 2590.5 | 35.60 | -7.53 | 2.8507 | 2.2980 | 1.6450 | -0.3737 | -0.3605 | 0.4514 | 0.0805 | 3.484 | 2590.5 |
| 2600.5 | 37.61 | -7.27 | 2.8436 | 2.2345 | 1.7216 | -0.3596 | -0.3774 | 0.4389 | 0.0833 | 3.380 | 2600.5 |
| 2610.5 | 39.64 | -6.99 | 2.8364 | 2.1682 | 1.7959 | -0.3451 | -0.3939 | 0.4257 | 0.0859 | 3.267 | 2610.5 |
| 2620.5 | 41.67 | -6.70 | 2.8292 | 2.0990 | 1.8680 | -0.3301 | -0.4101 | 0.4118 | 0.0885 | 3.146 | 2620.5 |
| 2630.5 | 43.71 | -6.40 | 2.8218 | 2.0271 | 1.9376 | -0.3146 | -0.4258 | 0.3973 | 0.0909 | 3.017 | 2630.5 |
| 2640.5 | 45.75 | -6.09 | 2.8143 | 1.9525 | 2.0046 | -0.2988 | -0.4411 | 0.3821 | 0.0933 | 2.883 | 2640.5 |
| 2650.5 | 47.81 | -5.78 | 2.8067 | 1.8754 | 2.0690 | -0.2825 | -0.4560 | 0.3664 | 0.0955 | 2.745 | 2650.5 |
| 2660.5 | 49.88 | -5.45 | 2.7991 | 1.7957 | 2.1306 | -0.2659 | -0.4703 | 0.3500 | 0.0977 | 2.605 | 2660.5 |
| 2670.5 | 51.95 | -5.12 | 2.7914 | 1.7136 | 2.1894 | -0.2489 | -0.4841 | 0.3329 | 0.0997 | 2.464 | 2670.5 |
| 2680.5 | 54.03 | -4.77 | 2.7836 | 1.6292 | 2.2452 | -0.2316 | -0.4974 | 0.3153 | 0.1016 | 2.326 | 2680.5 |
| 2690.5 | 56.13 | -4.42 | 2.7758 | 1.5425 | 2.2978 | -0.2140 | -0.5101 | 0.2971 | 0.1034 | 2.194 | 2690.5 |
| 2700.5 | 58.23 | -4.06 | 2.7680 | 1.4537 | 2.3474 | -0.1961 | -0.5222 | 0.2784 | 0.1050 | 2.072 | 2700.5 |
| 2710.5 | 60.34 | -3.69 | 2.7601 | 1.3629 | 2.3936 | -0.1779 | -0.5337 | 0.2591 | 0.1066 | 1.962 | 2710.5 |
| 2720.5 | 62.47 | -3.32 | 2.7523 | 1.2701 | 2.4365 | -0.1594 | -0.5445 | 0.2392 | 0.1080 | 1.871 | 2720.5 |
| 2730.5 | 64.60 | -2.94 | 2.7444 | 1.1756 | 2.4759 | -0.1407 | -0.5546 | 0.2189 | 0.1092 | 1.802 | 2730.5 |
| 2740.5 | 66.75 | -2.55 | 2.7365 | 1.0794 | 2.5117 | -0.1218 | -0.5640 | 0.1980 | 0.1103 | 1.759 | 2740.5 |
| 2750.5 | 68.90 | -2.16 | 2.7287 | 0.9816 | 2.5440 | -0.1028 | -0.5727 | 0.1767 | 0.1112 | 1.745 | 2750.5 |
| 2760.5 | 71.07 | -1.76 | 2.7209 | 0.8824 | 2.5725 | -0.0836 | -0.5807 | 0.1549 | 0.1120 | 1.760 | 2760.5 |
| 2770.5 | 73.25 | -1.36 | 2.7131 | 0.7819 | 2.5972 | -0.0643 | -0.5878 | 0.1328 | 0.1127 | 1.803 | 2770.5 |
| 2780.5 | 75.44 | -0.95 | 2.7054 | 0.6802 | 2.6181 | -0.0448 | -0.5941 | 0.1102 | 0.1131 | 1.871 | 2780.5 |
| 2790.5 | 77.64 | -0.54 | 2.6978 | 0.5775 | 2.6351 | -0.0253 | -0.5996 | 0.0873 | 0.1134 | 1.960 | 2790.5 |
| 2800.5 | 79.85 | -0.12 | 2.6902 | 0.4739 | 2.6482 | -0.0058 | -0.6042 | 0.0640 | 0.1136 | 2.065 | 2800.5 |
| 2810.5 | 82.08 | 0.29 | 2.6828 | 0.3697 | 2.6572 | 0.0137 | -0.6080 | 0.0405 | 0.1135 | 2.181 | 2810.5 |
| 2820.5 | 84.32 | 0.71 | 2.6754 | 0.2648 | 2.6621 | 0.0332 | -0.6108 | 0.0167 | 0.1133 | 2.305 | 2820.5 |
| 2830.5 | 86.57 | 1.13 | 2.6682 | 0.1596 | 2.6629 | 0.0527 | -0.6127 | -0.0073 | 0.1130 | 2.432 | 2830.5 |
| 2840.5 | 88.84 | 1.55 | 2.6611 | 0.0541 | 2.6596 | 0.0721 | -0.6137 | -0.0315 | 0.1124 | 2.560 | 2840.5 |
| 2850.5 | 91.11 | 1.97 | 2.6541 | -0.0515 | 2.6520 | 0.0914 | -0.6137 | -0.0558 | 0.1116 | 2.686 | 2850.5 |
| 2860.5 | 93.40 | 2.39 | 2.6473 | -0.1570 | 2.6403 | 0.1105 | -0.6127 | -0.0803 | 0.1107 | 2.808 | 2860.5 |
| 2870.5 | 95.71 | 2.81 | 2.6407 | -0.2623 | 2.6244 | 0.1294 | -0.6108 | -0.1048 | 0.1096 | 2.924 | 2870.5 |
| 2880.5 | 98.02 | 3.22 | 2.6342 | -0.3671 | 2.6043 | 0.1482 | -0.6078 | -0.1293 | 0.1083 | 3.034 | 2880.5 |
| 2890.5 | 100.35 | 3.64 | 2.6279 | -0.4713 | 2.5799 | 0.1667 | -0.6039 | -0.1538 | 0.1068 | 3.135 | 2890.5 |
| 2900.5 | 102.70 | 4.04 | 2.6219 | -0.5748 | 2.5514 | 0.1849 | -0.5989 | -0.1782 | 0.1051 | 3.228 | 2900.5 |
| 2910.5 | 105.05 | 4.45 | 2.6160 | -0.6773 | 2.5186 | 0.2028 | -0.5929 | -0.2025 | 0.1033 | 3.311 | 2910.5 |
| 2920.5 | 107.42 | 4.84 | 2.6104 | -0.7787 | 2.4817 | 0.2204 | -0.5859 | -0.2266 | 0.1012 | 3.383 | 2920.5 |
| 2930.5 | 109.80 | 5.23 | 2.6050 | -0.8788 | 2.4407 | 0.2377 | -0.5778 | -0.2505 | 0.0990 | 3.446 | 2930.5 |
| 2940.5 | 112.20 | 5.62 | 2.5998 | -0.9775 | 2.3956 | 0.2545 | -0.5688 | -0.2741 | 0.0966 | 3.497 | 2940.5 |
| 2950.5 | 114.60 | 5.99 | 2.5949 | -1.0744 | 2.3464 | 0.2709 | -0.5587 | -0.2974 | 0.0940 | 3.537 | 2950.5 |
| 2960.5 | 117.02 | 6.36 | 2.5903 | -1.1696 | 2.2933 | 0.2868 | -0.5476 | -0.3203 | 0.0913 | 3.566 | 2960.5 |
| 2970.5 | 119.45 | 6.71 | 2.5859 | -1.2628 | 2.2363 | 0.3023 | -0.5356 | -0.3427 | 0.0883 | 3.584 | 2970.5 |
| 2980.5 | 121.90 | 7.06 | 2.5818 | -1.3538 | 2.1754 | 0.3172 | -0.5225 | -0.3647 | 0.0853 | 3.591 | 2980.5 |
| 2990.5 | 124.35 | 7.39 | 2.5780 | -1.4425 | 2.1108 | 0.3316 | -0.5085 | -0.3862 | 0.0820 | 3.586 | 2990.5 |
| 3000.5 | 126.81 | 7.71 | 2.5745 | -1.5287 | 2.0426 | 0.3454 | -0.4935 | -0.4071 | 0.0786 | 3.570 | 3000.5 |
| 3010.5 | 129.29 | 8.02 | 2.5714 | -1.6123 | 1.9708 | 0.3586 | -0.4777 | -0.4274 | 0.0750 | 3.543 | 3010.5 |
| 3020.5 | 131.77 | 8.31 | 2.5685 | -1.6930 | 1.8956 | 0.3712 | -0.4609 | -0.4470 | 0.0713 | 3.505 | 3020.5 |
| 3030.5 | 134.26 | 8.59 | 2.5660 | -1.7708 | 1.8170 | 0.3832 | -0.4433 | -0.4658 | 0.0675 | 3.456 | 3030.5 |
| 3040.5 | 136.76 | 8.85 | 2.5637 | -1.8455 | 1.7353 | 0.3944 | -0.4249 | -0.4840 | 0.0635 | 3.396 | 3040.5 |
| 3050.5 | 139.27 | 9.10 | 2.5618 | -1.9169 | 1.6506 | 0.4050 | -0.4057 | -0.5013 | 0.0595 | 3.326 | 3050.5 |
| 3060.5 | 141.78 | 9.33 | 2.5603 | -1.9850 | 1.5629 | 0.4149 | -0.3857 | -0.5177 | 0.0553 | 3.247 | 3060.5 |
| 3070.5 | 144.30 | 9.54 | 2.5591 | -2.0496 | 1.4725 | 0.4240 | -0.3650 | -0.5333 | 0.0510 | 3.158 | 3070.5 |
| 3080.5 | 146.83 | 9.73 | 2.5582 | -2.1105 | 1.3795 | 0.4324 | -0.3436 | -0.5479 | 0.0466 | 3.060 | 3080.5 |
| 3090.5 | 149.36 | 9.91 | 2.5576 | -2.1677 | 1.2841 | 0.4400 | -0.3216 | -0.5616 | 0.0421 | 2.955 | 3090.5 |
| 3100.5 | 151.89 | 10.06 | 2.5574 | -2.2211 | 1.1863 | 0.4469 | -0.2990 | -0.5743 | 0.0375 | 2.842 | 3100.5 |
| 3110.5 | 154.43 | 10.20 | 2.5576 | -2.2706 | 1.0865 | 0.4529 | -0.2759 | -0.5860 | 0.0329 | 2.724 | 3110.5 |
| 3120.5 | 156.96 | 10.32 | 2.5581 | -2.3160 | 0.9848 | 0.4582 | -0.2524 | -0.5967 | 0.0282 | 2.601 | 3120.5 |
| 3130.5 | 159.50 | 10.42 | 2.5589 | -2.3574 | 0.8813 | 0.4626 | -0.2284 | -0.6063 | 0.0235 | 2.475 | 3130.5 |
| 3140.5 | 162.04 | 10.49 | 2.5601 | -2.3946 | 0.7763 | 0.4663 | -0.2040 | -0.6148 | 0.0187 | 2.347 | 3140.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3150.5 | 164.57 | 10.55 | 2.5616 | -2.4276 | 0.6699 | 0.4691 | -0.1793 | -0.6222 | 0.0139 | 2.221 | 3150.5 |
| 3160.5 | 167.11 | 10.59 | 2.5634 | -2.4563 | 0.5623 | 0.4711 | -0.1543 | -0.6285 | 0.0091 | 2.098 | 3160.5 |
| 3170.5 | 169.64 | 10.61 | 2.5656 | -2.4806 | 0.4537 | 0.4722 | -0.1291 | -0.6336 | 0.0043 | 1.981 | 3170.5 |
| 3180.5 | 172.16 | 10.60 | 2.5681 | -2.5007 | 0.3443 | 0.4725 | -0.1038 | -0.6377 | 0.0005 | 1.874 | 3180.5 |
| 3190.5 | 174.68 | 10.58 | 2.5709 | -2.5163 | 0.2344 | 0.4720 | -0.0784 | -0.6406 | 0.0053 | 1.781 | 3190.5 |
| 3200.5 | 177.19 | 10.54 | 2.5741 | -2.5276 | 0.1240 | 0.4707 | -0.0529 | -0.6425 | -0.0101 | 1.705 | 3200.5 |
| 3210.5 | 179.70 | 10.47 | 2.5775 | -2.5345 | 0.0134 | 0.4686 | -0.0274 | -0.6431 | -0.0148 | 1.650 | 3210.5 |
| 3220.5 | 182.19 | 10.39 | 2.5813 | -2.5371 | -0.0972 | 0.4656 | -0.0020 | -0.6427 | -0.0195 | 1.619 | 3220.5 |
| 3230.5 | 184.68 | 10.29 | 2.5853 | -2.5352 | -0.2077 | 0.4619 | 0.0233 | -0.6412 | -0.0241 | 1.614 | 3230.5 |
| 3240.5 | 187.16 | 10.17 | 2.5896 | -2.5290 | -0.3178 | 0.4573 | 0.0485 | -0.6386 | -0.0287 | 1.636 | 3240.5 |
| 3250.5 | 189.63 | 10.03 | 2.5942 | -2.5185 | -0.4273 | 0.4520 | 0.0734 | -0.6349 | -0.0332 | 1.682 | 3250.5 |
| 3260.5 | 192.09 | 9.88 | 2.5991 | -2.5038 | -0.5361 | 0.4459 | 0.0981 | -0.6302 | -0.0376 | 1.751 | 3260.5 |
| 3270.5 | 194.53 | 9.71 | 2.6042 | -2.4848 | -0.6441 | 0.4391 | 0.1225 | -0.6244 | -0.0419 | 1.838 | 3270.5 |
| 3280.5 | 196.96 | 9.52 | 2.6096 | -2.4617 | -0.7509 | 0.4315 | 0.1465 | -0.6176 | -0.0461 | 1.941 | 3280.5 |
| 3290.5 | 199.38 | 9.31 | 2.6152 | -2.4344 | -0.8565 | 0.4232 | 0.1701 | -0.6099 | -0.0502 | 2.055 | 3290.5 |
| 3300.5 | 201.79 | 9.09 | 2.6210 | -2.4032 | -0.9607 | 0.4142 | 0.1933 | -0.6012 | -0.0543 | 2.177 | 3300.5 |
| 3310.5 | 204.18 | 8.86 | 2.6271 | -2.3679 | -1.0633 | 0.4046 | 0.2160 | -0.5915 | -0.0582 | 2.305 | 3310.5 |
| 3320.5 | 206.56 | 8.61 | 2.6333 | -2.3289 | -1.1641 | 0.3942 | 0.2382 | -0.5810 | -0.0619 | 2.435 | 3320.5 |
| 3330.5 | 208.92 | 8.35 | 2.6397 | -2.2860 | -1.2631 | 0.3833 | 0.2599 | -0.5696 | -0.0656 | 2.566 | 3330.5 |
| 3340.5 | 211.27 | 8.07 | 2.6464 | -2.2395 | -1.3601 | 0.3717 | 0.2810 | -0.5574 | -0.0691 | 2.696 | 3340.5 |
| 3350.5 | 213.60 | 7.79 | 2.6531 | -2.1894 | -1.4548 | 0.3595 | 0.3015 | -0.5444 | -0.0725 | 2.823 | 3350.5 |
| 3360.5 | 215.92 | 7.49 | 2.6601 | -2.1358 | -1.5473 | 0.3467 | 0.3213 | -0.5306 | -0.0757 | 2.946 | 3360.5 |
| 3370.5 | 218.22 | 7.18 | 2.6672 | -2.0789 | -1.6374 | 0.3335 | 0.3405 | -0.5161 | -0.0788 | 3.064 | 3370.5 |
| 3380.5 | 220.51 | 6.86 | 2.6744 | -2.0187 | -1.7248 | 0.3196 | 0.3590 | -0.5009 | -0.0818 | 3.175 | 3380.5 |
| 3390.5 | 222.78 | 6.54 | 2.6817 | -1.9554 | -1.8097 | 0.3053 | 0.3768 | -0.4851 | -0.0846 | 3.278 | 3390.5 |
| 3400.5 | 225.04 | 6.20 | 2.6892 | -1.8891 | -1.8917 | 0.2906 | 0.3939 | -0.4687 | -0.0872 | 3.373 | 3400.5 |
| 3410.5 | 227.28 | 5.86 | 2.6967 | -1.8199 | -1.9709 | 0.2753 | 0.4102 | -0.4516 | -0.0897 | 3.458 | 3410.5 |
| 3420.5 | 229.51 | 5.51 | 2.7043 | -1.7480 | -2.0471 | 0.2597 | 0.4258 | -0.4341 | -0.0920 | 3.533 | 3420.5 |
| 3430.5 | 231.72 | 5.15 | 2.7120 | -1.6735 | -2.1202 | 0.2437 | 0.4406 | -0.4160 | -0.0942 | 3.597 | 3430.5 |
| 3440.5 | 233.91 | 4.79 | 2.7198 | -1.5965 | -2.1902 | 0.2273 | 0.4547 | -0.3975 | -0.0962 | 3.649 | 3440.5 |
| 3450.5 | 236.09 | 4.43 | 2.7276 | -1.5171 | -2.2569 | 0.2106 | 0.4679 | -0.3786 | -0.0981 | 3.689 | 3450.5 |
| 3460.5 | 238.26 | 4.06 | 2.7354 | -1.4355 | -2.3204 | 0.1935 | 0.4804 | -0.3593 | -0.0998 | 3.716 | 3460.5 |
| 3470.5 | 240.41 | 3.68 | 2.7433 | -1.3519 | -2.3805 | 0.1762 | 0.4920 | -0.3396 | -0.1014 | 3.729 | 3470.5 |
| 3480.5 | 242.55 | 3.31 | 2.7511 | -1.2663 | -2.4372 | 0.1587 | 0.5029 | -0.3196 | -0.1028 | 3.729 | 3480.5 |
| 3490.5 | 244.67 | 2.93 | 2.7590 | -1.1789 | -2.4905 | 0.1409 | 0.5130 | -0.2994 | -0.1040 | 3.715 | 3490.5 |
| 3500.5 | 246.78 | 2.55 | 2.7669 | -1.0899 | -2.5402 | 0.1229 | 0.5222 | -0.2788 | -0.1051 | 3.687 | 3500.5 |
| 3510.5 | 248.88 | 2.16 | 2.7747 | -0.9993 | -2.5864 | 0.1048 | 0.5307 | -0.2581 | -0.1060 | 3.646 | 3510.5 |
| 3520.5 | 250.96 | 1.78 | 2.7825 | -0.9073 | -2.6290 | 0.0865 | 0.5383 | -0.2372 | -0.1068 | 3.591 | 3520.5 |
| 3530.5 | 253.03 | 1.40 | 2.7903 | -0.8141 | -2.6680 | 0.0680 | 0.5452 | -0.2161 | -0.1074 | 3.523 | 3530.5 |
| 3540.5 | 255.09 | 1.01 | 2.7980 | -0.7198 | -2.7034 | 0.0495 | 0.5512 | -0.1950 | -0.1078 | 3.444 | 3540.5 |
| 3550.5 | 257.14 | 0.63 | 2.8056 | -0.6245 | -2.7351 | 0.0309 | 0.5565 | -0.1737 | -0.1081 | 3.353 | 3550.5 |
| 3560.5 | 259.17 | 0.25 | 2.8132 | -0.5284 | -2.7631 | 0.0123 | 0.5609 | -0.1524 | -0.1083 | 3.251 | 3560.5 |
| 3570.5 | 261.20 | -0.13 | 2.8207 | -0.4316 | -2.7875 | -0.0063 | 0.5646 | -0.1310 | -0.1083 | 3.141 | 3570.5 |
| 3580.5 | 263.21 | -0.51 | 2.8281 | -0.3342 | -2.8082 | -0.0249 | 0.5676 | -0.1096 | -0.1082 | 3.023 | 3580.5 |
| 3590.5 | 265.22 | -0.88 | 2.8354 | -0.2364 | -2.8252 | -0.0435 | 0.5697 | -0.0883 | -0.1080 | 2.899 | 3590.5 |
| 3600.5 | 267.21 | -1.25 | 2.8426 | -0.1382 | -2.8386 | -0.0621 | 0.5711 | -0.0670 | -0.1076 | 2.771 | 3600.5 |
| 3610.5 | 269.20 | -1.62 | 2.8497 | -0.0399 | -2.8483 | -0.0805 | 0.5718 | -0.0458 | -0.1070 | 2.641 | 3610.5 |
| 3620.5 | 271.17 | -1.98 | 2.8566 | 0.0584 | -2.8543 | -0.0989 | 0.5717 | -0.0247 | -0.1064 | 2.511 | 3620.5 |
| 3630.5 | 273.14 | -2.34 | 2.8634 | 0.1567 | -2.8568 | -0.1171 | 0.5709 | -0.0037 | -0.1056 | 2.385 | 3630.5 |
| 3640.5 | 275.10 | -2.70 | 2.8701 | 0.2548 | -2.8556 | -0.1352 | 0.5694 | 0.0172 | -0.1046 | 2.265 | 3640.5 |
| 3650.5 | 277.05 | -3.05 | 2.8767 | 0.3526 | -2.8508 | -0.1531 | 0.5672 | 0.0379 | -0.1036 | 2.156 | 3650.5 |
| 3660.5 | 278.99 | -3.40 | 2.8830 | 0.4499 | -2.8426 | -0.1708 | 0.5643 | 0.0584 | -0.1024 | 2.061 | 3660.5 |
| 3670.5 | 280.93 | -3.74 | 2.8892 | 0.5467 | -2.8308 | -0.1884 | 0.5608 | 0.0787 | -0.1012 | 1.984 | 3670.5 |
| 3680.5 | 282.86 | -4.07 | 2.8953 | 0.6428 | -2.8155 | -0.2056 | 0.5565 | 0.0988 | -0.0998 | 1.929 | 3680.5 |
| 3690.5 | 284.78 | -4.40 | 2.9011 | 0.7382 | -2.7968 | -0.2227 | 0.5517 | 0.1186 | -0.0982 | 1.899 | 3690.5 |
| 3700.5 | 286.70 | -4.72 | 2.9068 | 0.8326 | -2.7747 | -0.2394 | 0.5461 | 0.1382 | -0.0966 | 1.896 | 3700.5 |
| 3710.5 | 288.61 | -5.04 | 2.9123 | 0.9260 | -2.7493 | -0.2559 | 0.5400 | 0.1575 | -0.0949 | 1.921 | 3710.5 |
| 3720.5 | 290.52 | -5.35 | 2.9176 | 1.0183 | -2.7206 | -0.2721 | 0.5333 | 0.1764 | -0.0931 | 1.972 | 3720.5 |
| 3730.5 | 292.42 | -5.65 | 2.9227 | 1.1095 | -2.6886 | -0.2879 | 0.5259 | 0.1951 | -0.0911 | 2.047 | 3730.5 |
| 3740.5 | 294.32 | -5.95 | 2.9276 | 1.1992 | -2.6535 | -0.3034 | 0.5180 | 0.2135 | -0.0891 | 2.143 | 3740.5 |
| 3750.5 | 296.21 | -6.24 | 2.9323 | 1.2876 | -2.6152 | -0.3186 | 0.5095 | 0.2315 | -0.0870 | 2.255 | 3750.5 |
| 3760.5 | 298.10 | -6.52 | 2.9368 | 1.3745 | -2.5738 | -0.3333 | 0.5004 | 0.2492 | -0.0847 | 2.380 | 3760.5 |
| 3770.5 | 299.99 | -6.79 | 2.9411 | 1.4598 | -2.5295 | -0.3477 | 0.4908 | 0.2665 | -0.0824 | 2.514 | 3770.5 |
| 3780.5 | 301.87 | -7.05 | 2.9451 | 1.5433 | -2.4822 | -0.3617 | 0.4807 | 0.2834 | -0.0800 | 2.653 | 3780.5 |
| 3790.5 | 303.75 | -7.31 | 2.9490 | 1.6251 | -2.4320 | -0.3752 | 0.4700 | 0.2999 | -0.0776 | 2.795 | 3790.5 |
| 3800.5 | 305.63 | -7.56 | 2.9526 | 1.7050 | -2.3790 | -0.3884 | 0.4589 | 0.3160 | -0.0750 | 2.936 | 3800.5 |
| 3810.5 | 307.50 | -7.80 | 2.9559 | 1.7829 | -2.3233 | -0.4010 | 0.4472 | 0.3317 | -0.0724 | 3.074 | 3810.5 |
| 3820.5 | 309.38 | -8.03 | 2.9590 | 1.8588 | -2.2649 | -0.4133 | 0.4351 | 0.3469 | -0.0697 | 3.208 | 3820.5 |
| 3830.5 | 311.25 | -8.25 | 2.9619 | 1.9326 | -2.2040 | -0.4250 | 0.4226 | 0.3618 | -0.0669 | 3.334 | 3830.5 |
| 3840.5 | 313.12 | -8.46 | 2.9646 | 2.0042 | -2.1405 | -0.4363 | 0.4095 | 0.3761 | -0.0640 | 3.452 | 3840.5 |
| 3850.5 | 314.98 | -8.67 | 2.9670 | 2.0735 | -2.0746 | -0.4470 | 0.3961 | 0.3900 | -0.0611 | 3.560 | 3850.5 |
| 3860.5 | 316.85 | -8.86 | 2.9692 | 2.1404 | -2.0063 | -0.4573 | 0.3822 | 0.4034 | -0.0582 | 3.657 | 3860.5 |
| 3870.5 | 318.72 | -9.04 | 2.9711 | 2.2050 | -1.9358 | -0.4670 | 0.3680 | 0.4164 | -0.0551 | 3.742 | 3870.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3880.5 | 320.59 | -9.22 | 2.9728 | 2.2670 | -1.8631 | -0.4762 | 0.3533 | 0.4288 | -0.0520 | 3.813 | 3880.5 |
| 3890.5 | 322.45 | -9.38 | 2.9742 | 2.3265 | -1.7883 | -0.4849 | 0.3383 | 0.4408 | -0.0489 | 3.870 | 3890.5 |
| 3900.5 | 324.32 | -9.54 | 2.9754 | 2.3834 | -1.7115 | -0.4931 | 0.3229 | 0.4522 | -0.0457 | 3.913 | 3900.5 |
| 3910.5 | 326.18 | -9.68 | 2.9763 | 2.4376 | -1.6328 | -0.5006 | 0.3072 | 0.4631 | -0.0424 | 3.941 | 3910.5 |
| 3920.5 | 328.05 | -9.82 | 2.9770 | 2.4890 | -1.5522 | -0.5077 | 0.2911 | 0.4735 | -0.0392 | 3.954 | 3920.5 |
| 3930.5 | 329.92 | -9.94 | 2.9774 | 2.5377 | -1.4699 | -0.5141 | 0.2747 | 0.4834 | -0.0358 | 3.952 | 3930.5 |
| 3940.5 | 331.79 | -10.06 | 2.9776 | 2.5835 | -1.3859 | -0.5200 | 0.2580 | 0.4927 | -0.0325 | 3.935 | 3940.5 |
| 3950.5 | 333.66 | -10.16 | 2.9775 | 2.6265 | -1.3004 | -0.5253 | 0.2410 | 0.5014 | -0.0290 | 3.903 | 3950.5 |
| 3960.5 | 335.53 | -10.25 | 2.9771 | 2.6665 | -1.2134 | -0.5300 | 0.2238 | 0.5096 | -0.0256 | 3.858 | 3960.5 |
| 3970.5 | 337.40 | -10.34 | 2.9765 | 2.7034 | -1.1251 | -0.5341 | 0.2063 | 0.5172 | -0.0221 | 3.799 | 3970.5 |
| 3980.5 | 339.28 | -10.41 | 2.9757 | 2.7374 | -1.0355 | -0.5376 | 0.1885 | 0.5243 | -0.0186 | 3.727 | 3980.5 |
| 3990.5 | 341.16 | -10.47 | 2.9746 | 2.7683 | -0.9448 | -0.5405 | 0.1705 | 0.5308 | -0.0151 | 3.643 | 3990.5 |
| 4000.5 | 343.04 | -10.52 | 2.9732 | 2.7961 | -0.8529 | -0.5428 | 0.1523 | 0.5366 | -0.0116 | 3.548 | 4000.5 |
| 4010.5 | 344.92 | -10.56 | 2.9716 | 2.8207 | -0.7602 | -0.5445 | 0.1339 | 0.5419 | -0.0080 | 3.443 | 4010.5 |
| 4020.5 | 346.80 | -10.59 | 2.9698 | 2.8421 | -0.6665 | -0.5455 | 0.1154 | 0.5466 | -0.0044 | 3.329 | 4020.5 |
| 4030.5 | 348.69 | -10.60 | 2.9677 | 2.8604 | -0.5721 | -0.5460 | 0.0966 | 0.5507 | -0.0009 | 3.208 | 4030.5 |
| 4040.5 | 350.58 | -10.61 | 2.9654 | 2.8754 | -0.4771 | -0.5458 | 0.0777 | 0.5541 | 0.0027 | 3.080 | 4040.5 |
| 4050.5 | 352.47 | -10.60 | 2.9628 | 2.8871 | -0.3815 | -0.5451 | 0.0587 | 0.5570 | 0.0064 | 2.947 | 4050.5 |
| 4060.5 | 354.37 | -10.58 | 2.9600 | 2.8956 | -0.2855 | -0.5437 | 0.0395 | 0.5592 | 0.0100 | 2.812 | 4060.5 |
| 4070.5 | 356.27 | -10.55 | 2.9569 | 2.9007 | -0.1892 | -0.5416 | 0.0203 | 0.5608 | 0.0136 | 2.677 | 4070.5 |
| 4080.5 | 358.17 | -10.51 | 2.9536 | 2.9025 | -0.0926 | -0.5390 | 0.0009 | 0.5617 | 0.0172 | 2.543 | 4080.5 |
| 4090.5 | 0.08 | -10.46 | 2.9501 | 2.9010 | 0.0040 | -0.5357 | -0.0185 | 0.5620 | 0.0208 | 2.415 | 4090.5 |
| 4100.5 | 1.99 | -10.40 | 2.9463 | 2.8962 | 0.1007 | -0.5318 | -0.0379 | 0.5616 | 0.0243 | 2.294 | 4100.5 |
| 4110.5 | 3.91 | -10.32 | 2.9423 | 2.8880 | 0.1972 | -0.5274 | -0.0574 | 0.5606 | 0.0279 | 2.186 | 4110.5 |
| 4120.5 | 5.83 | -10.24 | 2.9381 | 2.8764 | 0.2935 | -0.5222 | -0.0769 | 0.5590 | 0.0315 | 2.093 | 4120.5 |
| 4130.5 | 7.75 | -10.14 | 2.9337 | 2.8615 | 0.3895 | -0.5165 | -0.0964 | 0.5567 | 0.0350 | 2.020 | 4130.5 |
| 4140.5 | 9.68 | -10.03 | 2.9291 | 2.8432 | 0.4850 | -0.5102 | -0.1159 | 0.5537 | 0.0385 | 1.970 | 4140.5 |
| 4150.5 | 11.61 | -9.91 | 2.9242 | 2.8216 | 0.5800 | -0.5033 | -0.1354 | 0.5500 | 0.0420 | 1.947 | 4150.5 |
| 4160.5 | 13.55 | -9.78 | 2.9192 | 2.7967 | 0.6742 | -0.4958 | -0.1547 | 0.5457 | 0.0454 | 1.952 | 4160.5 |
| 4170.5 | 15.50 | -9.63 | 2.9140 | 2.7684 | 0.7677 | -0.4877 | -0.1740 | 0.5407 | 0.0488 | 1.984 | 4170.5 |
| 4180.5 | 17.45 | -9.48 | 2.9085 | 2.7368 | 0.8602 | -0.4790 | -0.1932 | 0.5350 | 0.0522 | 2.042 | 4180.5 |
| 4190.5 | 19.40 | -9.31 | 2.9029 | 2.7019 | 0.9517 | -0.4697 | -0.2123 | 0.5287 | 0.0555 | 2.123 | 4190.5 |
| 4200.5 | 21.36 | -9.13 | 2.8971 | 2.6638 | 1.0420 | -0.4599 | -0.2312 | 0.5216 | 0.0588 | 2.222 | 4200.5 |
| 4210.5 | 23.33 | -8.94 | 2.8911 | 2.6224 | 1.1311 | -0.4495 | -0.2500 | 0.5139 | 0.0620 | 2.335 | 4210.5 |
| 4220.5 | 25.31 | -8.74 | 2.8849 | 2.5778 | 1.2188 | -0.4385 | -0.2685 | 0.5055 | 0.0652 | 2.458 | 4220.5 |
| 4230.5 | 27.29 | -8.53 | 2.8786 | 2.5300 | 1.3050 | -0.4270 | -0.2869 | 0.4965 | 0.0683 | 2.588 | 4230.5 |
| 4240.5 | 29.27 | -8.31 | 2.8721 | 2.4791 | 1.3896 | -0.4150 | -0.3050 | 0.4867 | 0.0714 | 2.721 | 4240.5 |
| 4250.5 | 31.26 | -8.07 | 2.8655 | 2.4251 | 1.4724 | -0.4025 | -0.3229 | 0.4763 | 0.0743 | 2.853 | 4250.5 |
| 4260.5 | 33.26 | -7.83 | 2.8587 | 2.3680 | 1.5534 | -0.3895 | -0.3405 | 0.4652 | 0.0772 | 2.982 | 4260.5 |
| 4270.5 | 35.27 | -7.57 | 2.8518 | 2.3080 | 1.6324 | -0.3759 | -0.3578 | 0.4534 | 0.0801 | 3.106 | 4270.5 |
| 4280.5 | 37.29 | -7.31 | 2.8448 | 2.2450 | 1.7093 | -0.3619 | -0.3747 | 0.4410 | 0.0828 | 3.223 | 4280.5 |
| 4290.5 | 39.31 | -7.03 | 2.8376 | 2.1791 | 1.7841 | -0.3474 | -0.3913 | 0.4279 | 0.0855 | 3.331 | 4290.5 |
| 4300.5 | 41.34 | -6.75 | 2.8303 | 2.1104 | 1.8565 | -0.3325 | -0.4075 | 0.4141 | 0.0881 | 3.430 | 4300.5 |
| 4310.5 | 43.38 | -6.45 | 2.8230 | 2.0389 | 1.9265 | -0.3171 | -0.4233 | 0.3997 | 0.0905 | 3.517 | 4310.5 |
| 4320.5 | 45.42 | -6.14 | 2.8155 | 1.9647 | 1.9940 | -0.3014 | -0.4387 | 0.3846 | 0.0929 | 3.593 | 4320.5 |
| 4330.5 | 47.48 | -5.83 | 2.8079 | 1.8880 | 2.0588 | -0.2852 | -0.4536 | 0.3690 | 0.0952 | 3.657 | 4330.5 |
| 4340.5 | 49.54 | -5.50 | 2.8003 | 1.8087 | 2.1209 | -0.2686 | -0.4680 | 0.3526 | 0.0973 | 3.708 | 4340.5 |
| 4350.5 | 51.62 | -5.17 | 2.7926 | 1.7270 | 2.1801 | -0.2517 | -0.4819 | 0.3357 | 0.0994 | 3.745 | 4350.5 |
| 4360.5 | 53.70 | -4.83 | 2.7849 | 1.6429 | 2.2364 | -0.2344 | -0.4953 | 0.3182 | 0.1013 | 3.770 | 4360.5 |
| 4370.5 | 55.79 | -4.48 | 2.7771 | 1.5566 | 2.2896 | -0.2169 | -0.5081 | 0.3001 | 0.1031 | 3.781 | 4370.5 |
| 4380.5 | 57.89 | -4.12 | 2.7693 | 1.4682 | 2.3396 | -0.1990 | -0.5203 | 0.2814 | 0.1048 | 3.779 | 4380.5 |
| 4390.5 | 60.00 | -3.75 | 2.7614 | 1.3777 | 2.3863 | -0.1808 | -0.5319 | 0.2622 | 0.1063 | 3.764 | 4390.5 |
| 4400.5 | 62.12 | -3.38 | 2.7535 | 1.2852 | 2.4298 | -0.1624 | -0.5428 | 0.2425 | 0.1077 | 3.736 | 4400.5 |
| 4410.5 | 64.26 | -3.00 | 2.7457 | 1.1910 | 2.4697 | -0.1438 | -0.5530 | 0.2222 | 0.1090 | 3.695 | 4410.5 |
| 4420.5 | 66.40 | -2.61 | 2.7378 | 1.0950 | 2.5062 | -0.1249 | -0.5626 | 0.2014 | 0.1101 | 3.643 | 4420.5 |
| 4430.5 | 68.55 | -2.22 | 2.7300 | 0.9975 | 2.5390 | -0.1059 | -0.5714 | 0.1802 | 0.1111 | 3.578 | 4430.5 |
| 4440.5 | 70.72 | -1.83 | 2.7221 | 0.8985 | 2.5681 | -0.0867 | -0.5794 | 0.1585 | 0.1119 | 3.502 | 4440.5 |
| 4450.5 | 72.89 | -1.42 | 2.7144 | 0.7982 | 2.5935 | -0.0674 | -0.5867 | 0.1364 | 0.1126 | 3.415 | 4450.5 |
| 4460.5 | 75.08 | -1.02 | 2.7067 | 0.6967 | 2.6150 | -0.0480 | -0.5931 | 0.1139 | 0.1131 | 3.318 | 4460.5 |
| 4470.5 | 77.28 | -0.60 | 2.6990 | 0.5941 | 2.6327 | -0.0285 | -0.5988 | 0.0910 | 0.1134 | 3.212 | 4470.5 |
| 4480.5 | 79.49 | -0.19 | 2.6915 | 0.4907 | 2.6463 | -0.0090 | -0.6035 | 0.0678 | 0.1136 | 3.097 | 4480.5 |
| 4490.5 | 81.72 | 0.23 | 2.6840 | 0.3865 | 2.6560 | 0.0106 | -0.6074 | 0.0443 | 0.1136 | 2.974 | 4490.5 |
| 4500.5 | 83.96 | 0.64 | 2.6766 | 0.2818 | 2.6616 | 0.0301 | -0.6104 | 0.0206 | 0.1134 | 2.845 | 4500.5 |
| 4510.5 | 86.21 | 1.06 | 2.6694 | 0.1766 | 2.6630 | 0.0496 | -0.6125 | -0.0034 | 0.1130 | 2.711 | 4510.5 |
| 4520.5 | 88.47 | 1.48 | 2.6622 | 0.0711 | 2.6604 | 0.0690 | -0.6136 | -0.0276 | 0.1125 | 2.573 | 4520.5 |
| 4530.5 | 90.74 | 1.90 | 2.6552 | -0.0345 | 2.6535 | 0.0883 | -0.6138 | -0.0519 | 0.1118 | 2.434 | 4530.5 |
| 4540.5 | 93.03 | 2.32 | 2.6484 | -0.1400 | 2.6425 | 0.1074 | -0.6130 | -0.0763 | 0.1109 | 2.296 | 4540.5 |
| 4550.5 | 95.33 | 2.74 | 2.6417 | -0.2453 | 2.6273 | 0.1264 | -0.6112 | -0.1008 | 0.1098 | 2.161 | 4550.5 |
| 4560.5 | 97.65 | 3.16 | 2.6352 | -0.3502 | 2.6078 | 0.1452 | -0.6084 | -0.1254 | 0.1085 | 2.033 | 4560.5 |
| 4570.5 | 99.98 | 3.57 | 2.6289 | -0.4545 | 2.5842 | 0.1637 | -0.6046 | -0.1498 | 0.1070 | 1.916 | 4570.5 |
| 4580.5 | 102.32 | 3.98 | 2.6228 | -0.5581 | 2.5563 | 0.1820 | -0.5998 | -0.1743 | 0.1054 | 1.813 | 4580.5 |
| 4590.5 | 104.67 | 4.38 | 2.6169 | -0.6608 | 2.5242 | 0.2000 | -0.5939 | -0.1986 | 0.1036 | 1.728 | 4590.5 |
| 4600.5 | 107.04 | 4.78 | 2.6112 | -0.7624 | 2.4880 | 0.2176 | -0.5871 | -0.2227 | 0.1016 | 1.668 | 4600.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 4610.5 | 109.42 | 5.17 | 2.6058 | -0.8628 | 2.4476 | 0.2349 | -0.5792 | -0.2466 | 0.0994 | 1.633 | 4610.5 |
| 4620.5 | 111.81 | 5.56 | 2.6006 | -0.9616 | 2.4031 | 0.2518 | -0.5703 | -0.2703 | 0.0970 | 1.627 | 4620.5 |
| 4630.5 | 114.21 | 5.93 | 2.5957 | -1.0589 | 2.3546 | 0.2683 | -0.5604 | -0.2936 | 0.0944 | 1.650 | 4630.5 |
| 4640.5 | 116.63 | 6.30 | 2.5910 | -1.1544 | 2.3021 | 0.2843 | -0.5495 | -0.3166 | 0.0917 | 1.698 | 4640.5 |
| 4650.5 | 119.06 | 6.66 | 2.5866 | -1.2479 | 2.2457 | 0.2998 | -0.5376 | -0.3391 | 0.0888 | 1.770 | 4650.5 |
| 4660.5 | 121.50 | 7.00 | 2.5825 | -1.3393 | 2.1855 | 0.3148 | -0.5247 | -0.3612 | 0.0858 | 1.860 | 4660.5 |
| 4670.5 | 123.95 | 7.34 | 2.5786 | -1.4284 | 2.1215 | 0.3293 | -0.5108 | -0.3828 | 0.0825 | 1.964 | 4670.5 |
| 4680.5 | 126.41 | 7.66 | 2.5751 | -1.5150 | 2.0538 | 0.3432 | -0.4960 | -0.4038 | 0.0792 | 2.079 | 4680.5 |
| 4690.5 | 128.89 | 7.97 | 2.5719 | -1.5990 | 1.9826 | 0.3565 | -0.4803 | -0.4241 | 0.0756 | 2.199 | 4690.5 |
| 4700.5 | 131.37 | 8.26 | 2.5689 | -1.6802 | 1.9079 | 0.3692 | -0.4637 | -0.4439 | 0.0720 | 2.323 | 4700.5 |
| 4710.5 | 133.86 | 8.54 | 2.5663 | -1.7584 | 1.8299 | 0.3813 | -0.4462 | -0.4628 | 0.0681 | 2.447 | 4710.5 |
| 4720.5 | 136.36 | 8.81 | 2.5641 | -1.8336 | 1.7487 | 0.3927 | -0.4279 | -0.4811 | 0.0642 | 2.570 | 4720.5 |
| 4730.5 | 138.86 | 9.06 | 2.5621 | -1.9056 | 1.6645 | 0.4034 | -0.4088 | -0.4985 | 0.0601 | 2.690 | 4730.5 |
| 4740.5 | 141.38 | 9.29 | 2.5605 | -1.9742 | 1.5773 | 0.4133 | -0.3889 | -0.5151 | 0.0559 | 2.805 | 4740.5 |
| 4750.5 | 143.90 | 9.50 | 2.5592 | -2.0394 | 1.4873 | 0.4226 | -0.3684 | -0.5308 | 0.0517 | 2.914 | 4750.5 |
| 4760.5 | 146.42 | 9.70 | 2.5583 | -2.1009 | 1.3947 | 0.4311 | -0.3471 | -0.5456 | 0.0473 | 3.017 | 4760.5 |
| 4770.5 | 148.95 | 9.88 | 2.5577 | -2.1588 | 1.2996 | 0.4389 | -0.3252 | -0.5595 | 0.0428 | 3.113 | 4770.5 |
| 4780.5 | 151.48 | 10.04 | 2.5575 | -2.2128 | 1.2023 | 0.4458 | -0.3027 | -0.5723 | 0.0383 | 3.201 | 4780.5 |
| 4790.5 | 154.02 | 10.18 | 2.5575 | -2.2629 | 1.1028 | 0.4520 | -0.2797 | -0.5842 | 0.0336 | 3.280 | 4790.5 |
| 4800.5 | 156.56 | 10.30 | 2.5580 | -2.3090 | 1.0013 | 0.4574 | -0.2562 | -0.5950 | 0.0290 | 3.350 | 4800.5 |
| 4810.5 | 159.09 | 10.40 | 2.5588 | -2.3510 | 0.8981 | 0.4620 | -0.2323 | -0.6048 | 0.0242 | 3.411 | 4810.5 |
| 4820.5 | 161.63 | 10.48 | 2.5599 | -2.3889 | 0.7933 | 0.4657 | -0.2079 | -0.6135 | 0.0195 | 3.461 | 4820.5 |
| 4830.5 | 164.16 | 10.54 | 2.5613 | -2.4225 | 0.6871 | 0.4687 | -0.1833 | -0.6210 | 0.0147 | 3.502 | 4830.5 |
| 4840.5 | 166.70 | 10.58 | 2.5631 | -2.4519 | 0.5797 | 0.4708 | -0.1584 | -0.6275 | 0.0099 | 3.533 | 4840.5 |
| 4850.5 | 169.23 | 10.60 | 2.5652 | -2.4770 | 0.4713 | 0.4721 | -0.1332 | -0.6329 | 0.0051 | 3.552 | 4850.5 |
| 4860.5 | 171.75 | 10.60 | 2.5677 | -2.4977 | 0.3620 | 0.4725 | -0.1079 | -0.6371 | 0.0003 | 3.561 | 4860.5 |
| 4870.5 | 174.27 | 10.58 | 2.5705 | -2.5141 | 0.2522 | 0.4722 | -0.0825 | -0.6402 | -0.0045 | 3.559 | 4870.5 |
| 4880.5 | 176.79 | 10.54 | 2.5735 | -2.5261 | 0.1418 | 0.4710 | -0.0570 | -0.6422 | -0.0093 | 3.545 | 4880.5 |
| 4890.5 | 179.29 | 10.49 | 2.5769 | -2.5337 | 0.0313 | 0.4690 | -0.0315 | -0.6431 | -0.0140 | 3.520 | 4890.5 |
| 4900.5 | 181.79 | 10.41 | 2.5806 | -2.5369 | -0.0794 | 0.4662 | -0.0061 | -0.6429 | -0.0187 | 3.484 | 4900.5 |
| 4910.5 | 184.28 | 10.31 | 2.5846 | -2.5358 | -0.1899 | 0.4625 | 0.0193 | -0.6415 | -0.0234 | 3.437 | 4910.5 |
| 4920.5 | 186.76 | 10.19 | 2.5889 | -2.5303 | -0.3000 | 0.4581 | 0.0444 | -0.6391 | -0.0279 | 3.378 | 4920.5 |
| 4930.5 | 189.23 | 10.06 | 2.5935 | -2.5205 | -0.4097 | 0.4529 | 0.0694 | -0.6356 | -0.0324 | 3.309 | 4930.5 |
| 4940.5 | 191.69 | 9.91 | 2.5983 | -2.5065 | -0.5186 | 0.4470 | 0.0941 | -0.6310 | -0.0369 | 3.229 | 4940.5 |
| 4950.5 | 194.14 | 9.74 | 2.6034 | -2.4882 | -0.6267 | 0.4402 | 0.1186 | -0.6254 | -0.0412 | 3.140 | 4950.5 |
| 4960.5 | 196.57 | 9.55 | 2.6087 | -2.4657 | -0.7337 | 0.4328 | 0.1426 | -0.6188 | -0.0454 | 3.041 | 4960.5 |
| 4970.5 | 198.99 | 9.35 | 2.6143 | -2.4391 | -0.8395 | 0.4246 | 0.1663 | -0.6112 | -0.0496 | 2.935 | 4970.5 |
| 4980.5 | 201.40 | 9.13 | 2.6201 | -2.4085 | -0.9440 | 0.4157 | 0.1896 | -0.6026 | -0.0536 | 2.821 | 4980.5 |
| 4990.5 | 203.80 | 8.90 | 2.6261 | -2.3739 | -1.0468 | 0.4062 | 0.2124 | -0.5932 | -0.0575 | 2.701 | 4990.5 |
| 5000.5 | 206.18 | 8.65 | 2.6323 | -2.3354 | -1.1480 | 0.3959 | 0.2347 | -0.5828 | -0.0613 | 2.578 | 5000.5 |
| 5010.5 | 208.54 | 8.39 | 2.6387 | -2.2932 | -1.2473 | 0.3851 | 0.2564 | -0.5715 | -0.0650 | 2.452 | 5010.5 |
| 5020.5 | 210.89 | 8.12 | 2.6453 | -2.2472 | -1.3446 | 0.3736 | 0.2776 | -0.5594 | -0.0685 | 2.326 | 5020.5 |
| 5030.5 | 213.23 | 7.83 | 2.6520 | -2.1977 | -1.4397 | 0.3615 | 0.2982 | -0.5465 | -0.0719 | 2.203 | 5030.5 |
| 5040.5 | 215.55 | 7.54 | 2.6590 | -2.1447 | -1.5326 | 0.3488 | 0.3181 | -0.5329 | -0.0752 | 2.085 | 5040.5 |
| 5050.5 | 217.85 | 7.23 | 2.6660 | -2.0883 | -1.6230 | 0.3356 | 0.3374 | -0.5185 | -0.0783 | 1.976 | 5050.5 |
| 5060.5 | 220.14 | 6.92 | 2.6732 | -2.0286 | -1.7109 | 0.3219 | 0.3561 | -0.5034 | -0.0813 | 1.880 | 5060.5 |
| 5070.5 | 222.42 | 6.59 | 2.6805 | -1.9658 | -1.7962 | 0.3077 | 0.3740 | -0.4877 | -0.0841 | 1.801 | 5070.5 |
| 5080.5 | 224.68 | 6.26 | 2.6880 | -1.9000 | -1.8787 | 0.2930 | 0.3912 | -0.4714 | -0.0868 | 1.743 | 5080.5 |
| 5090.5 | 226.92 | 5.92 | 2.6955 | -1.8313 | -1.9583 | 0.2778 | 0.4076 | -0.4544 | -0.0893 | 1.709 | 5090.5 |
| 5100.5 | 229.15 | 5.57 | 2.7031 | -1.7598 | -2.0350 | 0.2622 | 0.4233 | -0.4370 | -0.0917 | 1.701 | 5100.5 |
| 5110.5 | 231.36 | 5.21 | 2.7108 | -1.6857 | -2.1086 | 0.2463 | 0.4383 | -0.4190 | -0.0939 | 1.720 | 5110.5 |
| 5120.5 | 233.56 | 4.85 | 2.7185 | -1.6091 | -2.1791 | 0.2300 | 0.4524 | -0.4006 | -0.0959 | 1.766 | 5120.5 |
| 5130.5 | 235.74 | 4.49 | 2.7263 | -1.5301 | -2.2464 | 0.2133 | 0.4658 | -0.3817 | -0.0978 | 1.836 | 5130.5 |
| 5140.5 | 237.91 | 4.12 | 2.7342 | -1.4488 | -2.3104 | 0.1963 | 0.4784 | -0.3624 | -0.0996 | 1.926 | 5140.5 |
| 5150.5 | 240.06 | 3.74 | 2.7420 | -1.3655 | -2.3711 | 0.1790 | 0.4902 | -0.3428 | -0.1011 | 2.033 | 5150.5 |
| 5160.5 | 242.20 | 3.37 | 2.7499 | -1.2802 | -2.4283 | 0.1615 | 0.5012 | -0.3229 | -0.1025 | 2.153 | 5160.5 |
| 5170.5 | 244.33 | 2.99 | 2.7577 | -1.1931 | -2.4821 | 0.1438 | 0.5114 | -0.3026 | -0.1038 | 2.282 | 5170.5 |
| 5180.5 | 246.44 | 2.61 | 2.7656 | -1.1043 | -2.5324 | 0.1258 | 0.5208 | -0.2822 | -0.1049 | 2.417 | 5180.5 |
| 5190.5 | 248.54 | 2.23 | 2.7734 | -1.0140 | -2.5792 | 0.1077 | 0.5294 | -0.2615 | -0.1058 | 2.556 | 5190.5 |
| 5200.5 | 250.62 | 1.84 | 2.7813 | -0.9223 | -2.6224 | 0.0894 | 0.5371 | -0.2406 | -0.1066 | 2.696 | 5200.5 |
| 5210.5 | 252.70 | 1.46 | 2.7890 | -0.8293 | -2.6619 | 0.0710 | 0.5441 | -0.2195 | -0.1073 | 2.834 | 5210.5 |
| 5220.5 | 254.76 | 1.08 | 2.7967 | -0.7351 | -2.6979 | 0.0525 | 0.5503 | -0.1984 | -0.1078 | 2.970 | 5220.5 |
| 5230.5 | 256.81 | 0.69 | 2.8044 | -0.6400 | -2.7302 | 0.0339 | 0.5557 | -0.1771 | -0.1081 | 3.100 | 5230.5 |
| 5240.5 | 258.85 | 0.31 | 2.8120 | -0.5440 | -2.7588 | 0.0153 | 0.5603 | -0.1558 | -0.1083 | 3.224 | 5240.5 |
| 5250.5 | 260.87 | -0.07 | 2.8195 | -0.4473 | -2.7838 | -0.0033 | 0.5641 | -0.1344 | -0.1083 | 3.340 | 5250.5 |
| 5260.5 | 262.89 | -0.44 | 2.8269 | -0.3500 | -2.8051 | -0.0219 | 0.5671 | -0.1131 | -0.1082 | 3.447 | 5260.5 |
| 5270.5 | 264.89 | -0.82 | 2.8342 | -0.2522 | -2.8227 | -0.0405 | 0.5694 | -0.0917 | -0.1080 | 3.543 | 5270.5 |
| 5280.5 | 266.89 | -1.19 | 2.8414 | -0.1541 | -2.8367 | -0.0591 | 0.5709 | -0.0704 | -0.1076 | 3.629 | 5280.5 |
| 5290.5 | 268.88 | -1.56 | 2.8485 | -0.0558 | -2.8469 | -0.0776 | 0.5717 | -0.0492 | -0.1071 | 3.702 | 5290.5 |
| 5300.5 | 270.85 | -1.93 | 2.8555 | 0.0426 | -2.8536 | -0.0959 | 0.5718 | -0.0281 | -0.1065 | 3.762 | 5300.5 |
| 5310.5 | 272.82 | -2.29 | 2.8624 | 0.1409 | -2.8566 | -0.1142 | 0.5711 | -0.0070 | -0.1057 | 3.808 | 5310.5 |
| 5320.5 | 274.78 | -2.64 | 2.8691 | 0.2390 | -2.8560 | -0.1323 | 0.5697 | 0.0138 | -0.1048 | 3.840 | 5320.5 |
| 5330.5 | 276.74 | -2.99 | 2.8756 | 0.3368 | -2.8519 | -0.1502 | 0.5676 | 0.0346 | -0.1038 | 3.857 | 5330.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 5340.5 | 278.68 | -3.34 | 2.8820 | 0.4343 | -2.8441 | -0.1680 | 0.5649 | 0.0551 | -0.1026 | 3.860 | 5340.5 |
| 5350.5 | 280.62 | -3.68 | 2.8882 | 0.5311 | -2.8329 | -0.1855 | 0.5614 | 0.0754 | -0.1014 | 3.848 | 5350.5 |
| 5360.5 | 282.55 | -4.02 | 2.8943 | 0.6274 | -2.8182 | -0.2029 | 0.5573 | 0.0955 | -0.1000 | 3.821 | 5360.5 |
| 5370.5 | 284.47 | -4.35 | 2.9002 | 0.7228 | -2.8001 | -0.2199 | 0.5525 | 0.1154 | -0.0985 | 3.780 | 5370.5 |
| 5380.5 | 286.39 | -4.67 | 2.9059 | 0.8174 | -2.7785 | -0.2367 | 0.5471 | 0.1350 | -0.0969 | 3.725 | 5380.5 |
| 5390.5 | 288.31 | -4.99 | 2.9114 | 0.9110 | -2.7536 | -0.2533 | 0.5410 | 0.1544 | -0.0952 | 3.656 | 5390.5 |
| 5400.5 | 290.21 | -5.30 | 2.9168 | 1.0035 | -2.7254 | -0.2695 | 0.5344 | 0.1734 | -0.0934 | 3.575 | 5400.5 |
| 5410.5 | 292.12 | -5.60 | 2.9219 | 1.0948 | -2.6940 | -0.2854 | 0.5271 | 0.1921 | -0.0914 | 3.483 | 5410.5 |
| 5420.5 | 294.01 | -5.90 | 2.9269 | 1.1848 | -2.6593 | -0.3009 | 0.5193 | 0.2106 | -0.0894 | 3.380 | 5420.5 |
| 5430.5 | 295.91 | -6.19 | 2.9316 | 1.2735 | -2.6216 | -0.3161 | 0.5109 | 0.2286 | -0.0873 | 3.268 | 5430.5 |
| 5440.5 | 297.80 | -6.47 | 2.9361 | 1.3606 | -2.5807 | -0.3310 | 0.5019 | 0.2463 | -0.0851 | 3.149 | 5440.5 |
| 5450.5 | 299.69 | -6.75 | 2.9404 | 1.4461 | -2.5368 | -0.3454 | 0.4924 | 0.2637 | -0.0828 | 3.023 | 5450.5 |
| 5460.5 | 301.57 | -7.01 | 2.9445 | 1.5299 | -2.4900 | -0.3594 | 0.4823 | 0.2807 | -0.0804 | 2.893 | 5460.5 |
| 5470.5 | 303.45 | -7.27 | 2.9484 | 1.6120 | -2.4403 | -0.3731 | 0.4718 | 0.2973 | -0.0780 | 2.762 | 5470.5 |
| 5480.5 | 305.33 | -7.52 | 2.9520 | 1.6922 | -2.3878 | -0.3863 | 0.4607 | 0.3134 | -0.0754 | 2.630 | 5480.5 |
| 5490.5 | 307.20 | -7.76 | 2.9554 | 1.7705 | -2.3325 | -0.3990 | 0.4491 | 0.3292 | -0.0728 | 2.502 | 5490.5 |
| 5500.5 | 309.07 | -7.99 | 2.9586 | 1.8467 | -2.2745 | -0.4113 | 0.4371 | 0.3445 | -0.0701 | 2.380 | 5500.5 |
| 5510.5 | 310.94 | -8.21 | 2.9615 | 1.9209 | -2.2140 | -0.4231 | 0.4246 | 0.3594 | -0.0673 | 2.267 | 5510.5 |
| 5520.5 | 312.81 | -8.43 | 2.9642 | 1.9928 | -2.1509 | -0.4345 | 0.4117 | 0.3738 | -0.0645 | 2.168 | 5520.5 |
| 5530.5 | 314.68 | -8.63 | 2.9666 | 2.0625 | -2.0854 | -0.4453 | 0.3983 | 0.3878 | -0.0616 | 2.086 | 5530.5 |
| 5540.5 | 316.55 | -8.83 | 2.9688 | 2.1298 | -2.0175 | -0.4557 | 0.3845 | 0.4013 | -0.0586 | 2.026 | 5540.5 |
| 5550.5 | 318.42 | -9.01 | 2.9708 | 2.1947 | -1.9474 | -0.4655 | 0.3703 | 0.4143 | -0.0556 | 1.989 | 5550.5 |
| 5560.5 | 320.28 | -9.19 | 2.9725 | 2.2572 | -1.8750 | -0.4748 | 0.3557 | 0.4269 | -0.0525 | 1.979 | 5560.5 |
| 5570.5 | 322.15 | -9.36 | 2.9740 | 2.3171 | -1.8005 | -0.4836 | 0.3407 | 0.4389 | -0.0494 | 1.996 | 5570.5 |
| 5580.5 | 324.02 | -9.51 | 2.9752 | 2.3744 | -1.7240 | -0.4918 | 0.3254 | 0.4504 | -0.0462 | 2.040 | 5580.5 |
| 5590.5 | 325.88 | -9.66 | 2.9762 | 2.4290 | -1.6456 | -0.4995 | 0.3097 | 0.4614 | -0.0430 | 2.109 | 5590.5 |
| 5600.5 | 327.75 | -9.80 | 2.9769 | 2.4809 | -1.5653 | -0.5066 | 0.2937 | 0.4719 | -0.0397 | 2.198 | 5600.5 |
| 5610.5 | 329.62 | -9.92 | 2.9773 | 2.5300 | -1.4833 | -0.5131 | 0.2774 | 0.4818 | -0.0364 | 2.305 | 5610.5 |
| 5620.5 | 331.49 | -10.04 | 2.9775 | 2.5763 | -1.3996 | -0.5191 | 0.2607 | 0.4912 | -0.0330 | 2.425 | 5620.5 |
| 5630.5 | 333.36 | -10.15 | 2.9775 | 2.6197 | -1.3143 | -0.5245 | 0.2438 | 0.5001 | -0.0296 | 2.555 | 5630.5 |
| 5640.5 | 335.23 | -10.24 | 2.9772 | 2.6602 | -1.2276 | -0.5293 | 0.2266 | 0.5083 | -0.0262 | 2.690 | 5640.5 |
| 5650.5 | 337.10 | -10.32 | 2.9766 | 2.6977 | -1.1395 | -0.5335 | 0.2091 | 0.5161 | -0.0227 | 2.828 | 5650.5 |
| 5660.5 | 338.98 | -10.40 | 2.9758 | 2.7321 | -1.0501 | -0.5371 | 0.1914 | 0.5232 | -0.0192 | 2.965 | 5660.5 |
| 5670.5 | 340.85 | -10.46 | 2.9748 | 2.7635 | -0.9595 | -0.5401 | 0.1735 | 0.5298 | -0.0157 | 3.100 | 5670.5 |
| 5680.5 | 342.73 | -10.51 | 2.9735 | 2.7918 | -0.8678 | -0.5425 | 0.1553 | 0.5357 | -0.0121 | 3.230 | 5680.5 |
| 5690.5 | 344.61 | -10.55 | 2.9719 | 2.8169 | -0.7752 | -0.5442 | 0.1369 | 0.5411 | -0.0086 | 3.352 | 5690.5 |
| 5700.5 | 346.50 | -10.58 | 2.9701 | 2.8389 | -0.6817 | -0.5454 | 0.1184 | 0.5459 | -0.0050 | 3.466 | 5700.5 |
| 5710.5 | 348.38 | -10.60 | 2.9680 | 2.8576 | -0.5874 | -0.5460 | 0.0997 | 0.5501 | -0.0014 | 3.569 | 5710.5 |
| 5720.5 | 350.27 | -10.61 | 2.9657 | 2.8732 | -0.4925 | -0.5459 | 0.0808 | 0.5536 | 0.0022 | 3.661 | 5720.5 |
| 5730.5 | 352.17 | -10.60 | 2.9632 | 2.8854 | -0.3970 | -0.5452 | 0.0618 | 0.5566 | 0.0058 | 3.741 | 5730.5 |
| 5740.5 | 354.06 | -10.59 | 2.9604 | 2.8944 | -0.3010 | -0.5439 | 0.0426 | 0.5589 | 0.0094 | 3.807 | 5740.5 |
| 5750.5 | 355.96 | -10.56 | 2.9574 | 2.9001 | -0.2047 | -0.5420 | 0.0234 | 0.5605 | 0.0130 | 3.859 | 5750.5 |
| 5760.5 | 357.86 | -10.52 | 2.9541 | 2.9025 | -0.1082 | -0.5395 | 0.0041 | 0.5616 | 0.0166 | 3.898 | 5760.5 |
| 5770.5 | 359.77 | -10.47 | 2.9507 | 2.9015 | -0.0116 | -0.5363 | -0.0153 | 0.5620 | 0.0202 | 3.921 | 5770.5 |
| 5780.5 | 1.68 | -10.41 | 2.9469 | 2.8972 | 0.0851 | -0.5325 | -0.0348 | 0.5617 | 0.0238 | 3.931 | 5780.5 |
| 5790.5 | 3.60 | -10.34 | 2.9430 | 2.8895 | 0.1817 | -0.5281 | -0.0543 | 0.5608 | 0.0273 | 3.925 | 5790.5 |
| 5800.5 | 5.52 | -10.25 | 2.9388 | 2.8785 | 0.2780 | -0.5231 | -0.0738 | 0.5593 | 0.0309 | 3.906 | 5800.5 |
| 5810.5 | 7.44 | -10.16 | 2.9344 | 2.8641 | 0.3740 | -0.5175 | -0.0933 | 0.5571 | 0.0344 | 3.872 | 5810.5 |
| 5820.5 | 9.37 | -10.05 | 2.9298 | 2.8464 | 0.4696 | -0.5113 | -0.1128 | 0.5542 | 0.0379 | 3.825 | 5820.5 |
| 5830.5 | 11.30 | -9.93 | 2.9250 | 2.8253 | 0.5647 | -0.5044 | -0.1322 | 0.5507 | 0.0414 | 3.765 | 5830.5 |
| 5840.5 | 13.24 | -9.80 | 2.9200 | 2.8009 | 0.6590 | -0.4970 | -0.1516 | 0.5464 | 0.0449 | 3.693 | 5840.5 |
| 5850.5 | 15.18 | -9.66 | 2.9148 | 2.7732 | 0.7526 | -0.4890 | -0.1709 | 0.5415 | 0.0483 | 3.608 | 5850.5 |
| 5860.5 | 17.13 | -9.50 | 2.9094 | 2.7421 | 0.8453 | -0.4804 | -0.1901 | 0.5360 | 0.0517 | 3.513 | 5860.5 |
| 5870.5 | 19.09 | -9.34 | 2.9038 | 2.7078 | 0.9370 | -0.4712 | -0.2092 | 0.5297 | 0.0550 | 3.408 | 5870.5 |
| 5880.5 | 21.05 | -9.16 | 2.8980 | 2.6702 | 1.0275 | -0.4615 | -0.2282 | 0.5228 | 0.0583 | 3.294 | 5880.5 |
| 5890.5 | 23.01 | -8.98 | 2.8921 | 2.6293 | 1.1168 | -0.4512 | -0.2470 | 0.5152 | 0.0615 | 3.171 | 5890.5 |
| 5900.5 | 24.99 | -8.78 | 2.8859 | 2.5852 | 1.2048 | -0.4403 | -0.2656 | 0.5069 | 0.0647 | 3.042 | 5900.5 |
| 5910.5 | 26.97 | -8.57 | 2.8796 | 2.5379 | 1.2912 | -0.4289 | -0.2840 | 0.4980 | 0.0678 | 2.908 | 5910.5 |
| 5920.5 | 28.95 | -8.35 | 2.8732 | 2.4875 | 1.3760 | -0.4170 | -0.3021 | 0.4883 | 0.0709 | 2.770 | 5920.5 |
| 5930.5 | 30.94 | -8.11 | 2.8666 | 2.4340 | 1.4592 | -0.4046 | -0.3200 | 0.4780 | 0.0739 | 2.631 | 5930.5 |
| 5940.5 | 32.94 | -7.87 | 2.8598 | 2.3774 | 1.5405 | -0.3916 | -0.3377 | 0.4670 | 0.0768 | 2.492 | 5940.5 |
| 5950.5 | 34.95 | -7.62 | 2.8529 | 2.3179 | 1.6198 | -0.3781 | -0.3550 | 0.4553 | 0.0796 | 2.358 | 5950.5 |
| 5960.5 | 36.96 | -7.35 | 2.8459 | 2.2553 | 1.6971 | -0.3642 | -0.3720 | 0.4430 | 0.0824 | 2.229 | 5960.5 |
| 5970.5 | 38.98 | -7.08 | 2.8388 | 2.1899 | 1.7722 | -0.3498 | -0.3886 | 0.4300 | 0.0851 | 2.112 | 5970.5 |
| 5980.5 | 41.01 | -6.79 | 2.8315 | 2.1216 | 1.8450 | -0.3349 | -0.4049 | 0.4164 | 0.0876 | 2.009 | 5980.5 |
| 5990.5 | 43.05 | -6.50 | 2.8242 | 2.0506 | 1.9154 | -0.3197 | -0.4208 | 0.4021 | 0.0901 | 1.925 | 5990.5 |
| 6000.5 | 45.09 | -6.19 | 2.8167 | 1.9769 | 1.9833 | -0.3039 | -0.4362 | 0.3871 | 0.0925 | 1.864 | 6000.5 |
| 6010.5 | 47.15 | -5.88 | 2.8092 | 1.9006 | 2.0485 | -0.2878 | -0.4512 | 0.3715 | 0.0948 | 1.829 | 6010.5 |
| 6020.5 | 49.21 | -5.56 | 2.8016 | 1.8217 | 2.1111 | -0.2713 | -0.4657 | 0.3553 | 0.0970 | 1.824 | 6020.5 |
| 6030.5 | 51.28 | -5.23 | 2.7939 | 1.7404 | 2.1707 | -0.2545 | -0.4797 | 0.3385 | 0.0991 | 1.847 | 6030.5 |
| 6040.5 | 53.36 | -4.89 | 2.7861 | 1.6567 | 2.2275 | -0.2373 | -0.4932 | 0.3211 | 0.1010 | 1.897 | 6040.5 |
| 6050.5 | 55.45 | -4.54 | 2.7783 | 1.5707 | 2.2812 | -0.2197 | -0.5061 | 0.3031 | 0.1028 | 1.972 | 6050.5 |
| 6060.5 | 57.55 | -4.18 | 2.7705 | 1.4826 | 2.3317 | -0.2019 | -0.5184 | 0.2845 | 0.1045 | 2.066 | 6060.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6070.5 | 59.66 | -3.81 | 2.7627 | 1.3924 | 2.3790 | -0.1838 | -0.5300 | 0.2654 | 0.1061 | 2.175 | 6070.5 |
| 6080.5 | 61.78 | -3.44 | 2.7548 | 1.3003 | 2.4230 | -0.1654 | -0.5411 | 0.2457 | 0.1075 | 2.295 | 6080.5 |
| 6090.5 | 63.91 | -3.06 | 2.7469 | 1.2063 | 2.4635 | -0.1468 | -0.5514 | 0.2255 | 0.1088 | 2.421 | 6090.5 |
| 6100.5 | 66.05 | -2.68 | 2.7391 | 1.1106 | 2.5005 | -0.1280 | -0.5611 | 0.2048 | 0.1100 | 2.550 | 6100.5 |
| 6110.5 | 68.20 | -2.29 | 2.7312 | 1.0133 | 2.5339 | -0.1090 | -0.5700 | 0.1836 | 0.1110 | 2.680 | 6110.5 |
| 6120.5 | 70.37 | -1.89 | 2.7234 | 0.9145 | 2.5637 | -0.0898 | -0.5782 | 0.1620 | 0.1118 | 2.807 | 6120.5 |
| 6130.5 | 72.54 | -1.49 | 2.7156 | 0.8144 | 2.5897 | -0.0705 | -0.5856 | 0.1400 | 0.1125 | 2.929 | 6130.5 |
| 6140.5 | 74.73 | -1.08 | 2.7079 | 0.7131 | 2.6118 | -0.0511 | -0.5922 | 0.1175 | 0.1130 | 3.045 | 6140.5 |
| 6150.5 | 76.93 | -0.67 | 2.7003 | 0.6108 | 2.6301 | -0.0316 | -0.5979 | 0.0947 | 0.1134 | 3.153 | 6150.5 |
| 6160.5 | 79.14 | -0.26 | 2.6927 | 0.5075 | 2.6444 | -0.0121 | -0.6028 | 0.0716 | 0.1136 | 3.252 | 6160.5 |
| 6170.5 | 81.36 | 0.16 | 2.6852 | 0.4034 | 2.6547 | 0.0074 | -0.6069 | 0.0481 | 0.1136 | 3.341 | 6170.5 |
| 6180.5 | 83.59 | 0.58 | 2.6778 | 0.2987 | 2.6609 | 0.0269 | -0.6100 | 0.0244 | 0.1134 | 3.419 | 6180.5 |
| 6190.5 | 85.84 | 1.00 | 2.6705 | 0.1936 | 2.6631 | 0.0464 | -0.6122 | 0.0005 | 0.1131 | 3.487 | 6190.5 |
| 6200.5 | 88.10 | 1.42 | 2.6634 | 0.0882 | 2.6611 | 0.0658 | -0.6135 | -0.0237 | 0.1126 | 3.543 | 6200.5 |
| 6210.5 | 90.38 | 1.84 | 2.6564 | -0.0174 | 2.6549 | 0.0852 | -0.6138 | -0.0480 | 0.1119 | 3.587 | 6210.5 |
| 6220.5 | 92.66 | 2.26 | 2.6495 | -0.1230 | 2.6446 | 0.1043 | -0.6132 | -0.0724 | 0.1110 | 3.620 | 6220.5 |
| 6230.5 | 94.96 | 2.68 | 2.6428 | -0.2283 | 2.6300 | 0.1233 | -0.6115 | -0.0969 | 0.1100 | 3.640 | 6230.5 |
| 6240.5 | 97.27 | 3.09 | 2.6363 | -0.3333 | 2.6112 | 0.1422 | -0.6089 | -0.1214 | 0.1087 | 3.648 | 6240.5 |
| 6250.5 | 99.60 | 3.50 | 2.6299 | -0.4377 | 2.5883 | 0.1607 | -0.6053 | -0.1459 | 0.1073 | 3.645 | 6250.5 |
| 6260.5 | 101.94 | 3.91 | 2.6238 | -0.5415 | 2.5611 | 0.1791 | -0.6006 | -0.1703 | 0.1057 | 3.629 | 6260.5 |
| 6270.5 | 104.29 | 4.32 | 2.6179 | -0.6443 | 2.5297 | 0.1971 | -0.5949 | -0.1947 | 0.1039 | 3.602 | 6270.5 |
| 6280.5 | 106.65 | 4.72 | 2.6121 | -0.7461 | 2.4941 | 0.2148 | -0.5883 | -0.2188 | 0.1019 | 3.564 | 6280.5 |
| 6290.5 | 109.03 | 5.11 | 2.6067 | -0.8466 | 2.4544 | 0.2321 | -0.5805 | -0.2428 | 0.0997 | 3.514 | 6290.5 |
| 6300.5 | 111.42 | 5.49 | 2.6014 | -0.9458 | 2.4106 | 0.2491 | -0.5718 | -0.2665 | 0.0974 | 3.453 | 6300.5 |
| 6310.5 | 113.83 | 5.87 | 2.5964 | -1.0433 | 2.3627 | 0.2656 | -0.5621 | -0.2899 | 0.0949 | 3.382 | 6310.5 |
| 6320.5 | 116.24 | 6.24 | 2.5917 | -1.1391 | 2.3109 | 0.2817 | -0.5513 | -0.3129 | 0.0922 | 3.300 | 6320.5 |
| 6330.5 | 118.67 | 6.60 | 2.5873 | -1.2329 | 2.2551 | 0.2973 | -0.5396 | -0.3355 | 0.0893 | 3.209 | 6330.5 |
| 6340.5 | 121.11 | 6.95 | 2.5831 | -1.3247 | 2.1955 | 0.3124 | -0.5268 | -0.3577 | 0.0863 | 3.109 | 6340.5 |
| 6350.5 | 123.56 | 7.28 | 2.5792 | -1.4141 | 2.1321 | 0.3270 | -0.5131 | -0.3793 | 0.0831 | 3.001 | 6350.5 |
| 6360.5 | 126.02 | 7.61 | 2.5756 | -1.5012 | 2.0650 | 0.3410 | -0.4985 | -0.4004 | 0.0797 | 2.886 | 6360.5 |
| 6370.5 | 128.49 | 7.92 | 2.5724 | -1.5856 | 1.9943 | 0.3544 | -0.4829 | -0.4209 | 0.0762 | 2.765 | 6370.5 |
| 6380.5 | 130.97 | 8.22 | 2.5694 | -1.6672 | 1.9202 | 0.3672 | -0.4664 | -0.4407 | 0.0726 | 2.638 | 6380.5 |
| 6390.5 | 133.46 | 8.50 | 2.5667 | -1.7460 | 1.8427 | 0.3794 | -0.4491 | -0.4598 | 0.0688 | 2.509 | 6390.5 |
| 6400.5 | 135.95 | 8.77 | 2.5644 | -1.8217 | 1.7621 | 0.3909 | -0.4309 | -0.4782 | 0.0648 | 2.378 | 6400.5 |
| 6410.5 | 138.46 | 9.02 | 2.5624 | -1.8942 | 1.6783 | 0.4017 | -0.4119 | -0.4958 | 0.0608 | 2.247 | 6410.5 |
| 6420.5 | 140.97 | 9.25 | 2.5608 | -1.9634 | 1.5915 | 0.4118 | -0.3922 | -0.5125 | 0.0566 | 2.119 | 6420.5 |
| 6430.5 | 143.49 | 9.47 | 2.5594 | -2.0291 | 1.5020 | 0.4212 | -0.3717 | -0.5284 | 0.0524 | 1.998 | 6430.5 |
| 6440.5 | 146.01 | 9.67 | 2.5584 | -2.0912 | 1.4098 | 0.4298 | -0.3506 | -0.5433 | 0.0480 | 1.885 | 6440.5 |
| 6450.5 | 148.54 | 9.85 | 2.5578 | -2.1497 | 1.3151 | 0.4377 | -0.3288 | -0.5573 | 0.0435 | 1.786 | 6450.5 |
| 6460.5 | 151.07 | 10.01 | 2.5575 | -2.2043 | 1.2181 | 0.4448 | -0.3064 | -0.5703 | 0.0390 | 1.704 | 6460.5 |
| 6470.5 | 153.61 | 10.16 | 2.5575 | -2.2551 | 1.1190 | 0.4511 | -0.2835 | -0.5824 | 0.0344 | 1.643 | 6470.5 |
| 6480.5 | 156.15 | 10.28 | 2.5579 | -2.3018 | 1.0178 | 0.4566 | -0.2600 | -0.5933 | 0.0297 | 1.605 | 6480.5 |
| 6490.5 | 158.68 | 10.39 | 2.5586 | -2.3445 | 0.9149 | 0.4613 | -0.2362 | -0.6033 | 0.0250 | 1.594 | 6490.5 |
| 6500.5 | 161.22 | 10.47 | 2.5597 | -2.3830 | 0.8103 | 0.4652 | -0.2119 | -0.6121 | 0.0202 | 1.610 | 6500.5 |
| 6510.5 | 163.76 | 10.53 | 2.5611 | -2.4174 | 0.7044 | 0.4683 | -0.1873 | -0.6199 | 0.0155 | 1.651 | 6510.5 |
| 6520.5 | 166.29 | 10.58 | 2.5628 | -2.4475 | 0.5971 | 0.4705 | -0.1624 | -0.6266 | 0.0107 | 1.715 | 6520.5 |
| 6530.5 | 168.82 | 10.60 | 2.5649 | -2.4732 | 0.4889 | 0.4719 | -0.1373 | -0.6321 | 0.0058 | 1.797 | 6530.5 |
| 6540.5 | 171.35 | 10.61 | 2.5673 | -2.4947 | 0.3797 | 0.4725 | -0.1120 | -0.6365 | 0.0010 | 1.895 | 6540.5 |
| 6550.5 | 173.87 | 10.59 | 2.5700 | -2.5118 | 0.2699 | 0.4723 | -0.0866 | -0.6398 | -0.0038 | 2.005 | 6550.5 |
| 6560.5 | 176.38 | 10.55 | 2.5730 | -2.5245 | 0.1597 | 0.4712 | -0.0611 | -0.6420 | -0.0085 | 2.123 | 6560.5 |
| 6570.5 | 178.89 | 10.50 | 2.5764 | -2.5328 | 0.0491 | 0.4693 | -0.0356 | -0.6430 | -0.0133 | 2.246 | 6570.5 |
| 6580.5 | 181.39 | 10.42 | 2.5800 | -2.5367 | -0.0615 | 0.4667 | -0.0102 | -0.6430 | -0.0180 | 2.372 | 6580.5 |
| 6590.5 | 183.88 | 10.33 | 2.5840 | -2.5363 | -0.1720 | 0.4632 | 0.0152 | -0.6418 | -0.0226 | 2.498 | 6590.5 |
| 6600.5 | 186.36 | 10.21 | 2.5882 | -2.5315 | -0.2823 | 0.4589 | 0.0404 | -0.6396 | -0.0272 | 2.624 | 6600.5 |
| 6610.5 | 188.83 | 10.08 | 2.5927 | -2.5224 | -0.3920 | 0.4538 | 0.0654 | -0.6362 | -0.0317 | 2.746 | 6610.5 |
| 6620.5 | 191.29 | 9.93 | 2.5975 | -2.5090 | -0.5011 | 0.4480 | 0.0902 | -0.6318 | -0.0362 | 2.865 | 6620.5 |
| 6630.5 | 193.74 | 9.76 | 2.6025 | -2.4914 | -0.6093 | 0.4414 | 0.1146 | -0.6264 | -0.0405 | 2.979 | 6630.5 |
| 6640.5 | 196.18 | 9.58 | 2.6078 | -2.4696 | -0.7165 | 0.4340 | 0.1388 | -0.6199 | -0.0448 | 3.086 | 6640.5 |
| 6650.5 | 198.60 | 9.38 | 2.6133 | -2.4437 | -0.8226 | 0.4260 | 0.1625 | -0.6125 | -0.0489 | 3.187 | 6650.5 |
| 6660.5 | 201.01 | 9.17 | 2.6191 | -2.4137 | -0.9272 | 0.4172 | 0.1859 | -0.6041 | -0.0530 | 3.279 | 6660.5 |
| 6670.5 | 203.41 | 8.94 | 2.6251 | -2.3797 | -1.0303 | 0.4078 | 0.2088 | -0.5948 | -0.0569 | 3.364 | 6670.5 |
| 6680.5 | 205.79 | 8.69 | 2.6313 | -2.3419 | -1.1318 | 0.3976 | 0.2311 | -0.5845 | -0.0607 | 3.438 | 6680.5 |
| 6690.5 | 208.16 | 8.43 | 2.6376 | -2.3003 | -1.2314 | 0.3869 | 0.2530 | -0.5734 | -0.0644 | 3.503 | 6690.5 |
| 6700.5 | 210.51 | 8.16 | 2.6442 | -2.2549 | -1.3290 | 0.3755 | 0.2742 | -0.5614 | -0.0680 | 3.557 | 6700.5 |
| 6710.5 | 212.85 | 7.88 | 2.6509 | -2.2059 | -1.4245 | 0.3635 | 0.2949 | -0.5487 | -0.0714 | 3.600 | 6710.5 |
| 6720.5 | 215.18 | 7.59 | 2.6578 | -2.1535 | -1.5177 | 0.3509 | 0.3150 | -0.5351 | -0.0747 | 3.631 | 6720.5 |
| 6730.5 | 217.48 | 7.28 | 2.6649 | -2.0976 | -1.6086 | 0.3378 | 0.3344 | -0.5209 | -0.0778 | 3.650 | 6730.5 |
| 6740.5 | 219.77 | 6.97 | 2.6720 | -2.0385 | -1.6969 | 0.3242 | 0.3531 | -0.5059 | -0.0808 | 3.657 | 6740.5 |
| 6750.5 | 222.05 | 6.64 | 2.6794 | -1.9762 | -1.7826 | 0.3100 | 0.3711 | -0.4903 | -0.0837 | 3.651 | 6750.5 |
| 6760.5 | 224.31 | 6.31 | 2.6868 | -1.9108 | -1.8655 | 0.2954 | 0.3884 | -0.4740 | -0.0864 | 3.632 | 6760.5 |
| 6770.5 | 226.56 | 5.97 | 2.6943 | -1.8426 | -1.9456 | 0.2803 | 0.4050 | -0.4572 | -0.0889 | 3.599 | 6770.5 |
| 6780.5 | 228.79 | 5.62 | 2.7019 | -1.7715 | -2.0228 | 0.2648 | 0.4208 | -0.4398 | -0.0913 | 3.554 | 6780.5 |
| 6790.5 | 231.00 | 5.27 | 2.7095 | -1.6978 | -2.0969 | 0.2489 | 0.4359 | -0.4219 | -0.0935 | 3.497 | 6790.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6800.5 | 233.20 | 4.91 | 2.7173 | -1.6216 | -2.1679 | 0.2326 | 0.4502 | -0.4036 | -0.0956 | 3.427 | 6800.5 |
| 6810.5 | 235.39 | 4.55 | 2.7251 | -1.5430 | -2.2357 | 0.2160 | 0.4637 | -0.3848 | -0.0975 | 3.346 | 6810.5 |
| 6820.5 | 237.56 | 4.18 | 2.7329 | -1.4621 | -2.3003 | 0.1991 | 0.4764 | -0.3656 | -0.0993 | 3.254 | 6820.5 |
| 6830.5 | 239.72 | 3.80 | 2.7407 | -1.3791 | -2.3615 | 0.1819 | 0.4884 | -0.3460 | -0.1009 | 3.152 | 6830.5 |
| 6840.5 | 241.86 | 3.43 | 2.7486 | -1.2941 | -2.4193 | 0.1644 | 0.4995 | -0.3261 | -0.1023 | 3.041 | 6840.5 |
| 6850.5 | 243.98 | 3.05 | 2.7565 | -1.2073 | -2.4737 | 0.1467 | 0.5098 | 0.3059 | -0.1036 | 2.923 | 6850.5 |
| 6860.5 | 246.10 | 2.67 | 2.7643 | -1.1188 | -2.5245 | 0.1287 | 0.5193 | -0.2855 | -0.1047 | 2.800 | 6860.5 |
| 6870.5 | 248.20 | 2.29 | 2.7722 | -1.0287 | -2.5719 | 0.1106 | 0.5280 | -0.2648 | -0.1057 | 2.672 | 6870.5 |
| 6880.5 | 250.29 | 1.90 | 2.7800 | -0.9372 | -2.6156 | 0.0924 | 0.5359 | -0.2440 | -0.1065 | 2.543 | 6880.5 |
| 6890.5 | 252.36 | 1.52 | 2.7878 | -0.8444 | -2.6558 | 0.0740 | 0.5430 | -0.2230 | -0.1072 | 2.415 | 6890.5 |
| 6900.5 | 254.43 | 1.14 | 2.7955 | -0.7504 | -2.6923 | 0.0555 | 0.5493 | -0.2018 | -0.1077 | 2.291 | 6900.5 |
| 6910.5 | 256.48 | 0.76 | 2.8032 | -0.6554 | -2.7252 | 0.0369 | 0.5549 | -0.1806 | -0.1081 | 2.174 | 6910.5 |
| 6920.5 | 258.52 | 0.37 | 2.8108 | -0.5595 | -2.7545 | 0.0183 | 0.5596 | -0.1592 | -0.1083 | 2.068 | 6920.5 |
| 6930.5 | 260.55 | -0.01 | 2.8183 | -0.4629 | -2.7800 | -0.0003 | 0.5635 | -0.1379 | -0.1083 | 1.977 | 6930.5 |
| 6940.5 | 262.56 | -0.38 | 2.8257 | -0.3657 | -2.8019 | -0.0189 | 0.5667 | -0.1165 | -0.1083 | 1.904 | 6940.5 |
| 6950.5 | 264.57 | -0.76 | 2.8331 | -0.2680 | -2.8201 | -0.0375 | 0.5691 | -0.0952 | -0.1081 | 1.854 | 6950.5 |
| 6960.5 | 266.57 | -1.13 | 2.8403 | -0.1699 | -2.8346 | -0.0561 | 0.5708 | -0.0739 | -0.1077 | 1.830 | 6960.5 |
| 6970.5 | 268.56 | -1.50 | 2.8474 | -0.0717 | -2.8455 | -0.0746 | 0.5717 | -0.0526 | -0.1072 | 1.834 | 6970.5 |
| 6980.5 | 270.54 | -1.87 | 2.8544 | 0.0267 | -2.8528 | -0.0930 | 0.5718 | -0.0315 | -0.1066 | 1.865 | 6980.5 |
| 6990.5 | 272.51 | -2.23 | 2.8613 | 0.1250 | -2.8564 | -0.1112 | 0.5713 | -0.0104 | -0.1058 | 1.922 | 6990.5 |
| 7000.5 | 274.47 | -2.59 | 2.8680 | 0.2232 | -2.8564 | -0.1294 | 0.5700 | 0.0105 | -0.1050 | 2.002 | 7000.5 |
| 7010.5 | 276.42 | -2.94 | 2.8746 | 0.3211 | -2.8528 | -0.1474 | 0.5680 | 0.0312 | -0.1040 | 2.102 | 7010.5 |
| 7020.5 | 278.37 | -3.29 | 2.8810 | 0.4186 | -2.8456 | -0.1651 | 0.5653 | 0.0518 | -0.1028 | 2.218 | 7020.5 |
| 7030.5 | 280.31 | -3.63 | 2.8872 | 0.5155 | -2.8350 | -0.1827 | 0.5620 | 0.0722 | -0.1016 | 2.345 | 7030.5 |
| 7040.5 | 282.24 | -3.97 | 2.8933 | 0.6119 | -2.8208 | -0.2001 | 0.5580 | 0.0923 | -0.1002 | 2.481 | 7040.5 |
| 7050.5 | 284.16 | -4.30 | 2.8993 | 0.7075 | -2.8032 | -0.2172 | 0.5533 | 0.1122 | -0.0987 | 2.621 | 7050.5 |
| 7060.5 | 286.08 | -4.62 | 2.9050 | 0.8022 | -2.7822 | -0.2340 | 0.5480 | 0.1319 | -0.0972 | 2.763 | 7060.5 |
| 7070.5 | 288.00 | -4.94 | 2.9106 | 0.8960 | -2.7579 | -0.2506 | 0.5421 | 0.1513 | -0.0955 | 2.905 | 7070.5 |
| 7080.5 | 289.91 | -5.25 | 2.9159 | 0.9887 | -2.7302 | -0.2669 | 0.5355 | 0.1703 | -0.0937 | 3.044 | 7080.5 |
| 7090.5 | 291.81 | -5.56 | 2.9211 | 1.0802 | -2.6993 | -0.2828 | 0.5283 | 0.1891 | -0.0918 | 3.178 | 7090.5 |
| 7100.5 | 293.71 | -5.85 | 2.9261 | 1.1704 | -2.6651 | -0.2984 | 0.5206 | 0.2076 | -0.0898 | 3.305 | 7100.5 |
| 7110.5 | 295.60 | -6.14 | 2.9308 | 1.2592 | -2.6279 | -0.3137 | 0.5123 | 0.2257 | -0.0877 | 3.424 | 7110.5 |
| 7120.5 | 297.49 | -6.43 | 2.9354 | 1.3466 | -2.5875 | -0.3286 | 0.5034 | 0.2435 | -0.0855 | 3.533 | 7120.5 |
| 7130.5 | 299.38 | -6.70 | 2.9397 | 1.4324 | -2.5441 | -0.3431 | 0.4940 | 0.2609 | -0.0832 | 3.631 | 7130.5 |
| 7140.5 | 301.26 | -6.97 | 2.9439 | 1.5165 | -2.4978 | -0.3572 | 0.4840 | 0.2780 | -0.0808 | 3.717 | 7140.5 |
| 7150.5 | 303.14 | -7.23 | 2.9477 | 1.5989 | -2.4485 | -0.3709 | 0.4735 | 0.2946 | -0.0784 | 3.790 | 7150.5 |
| 7160.5 | 305.02 | -7.48 | 2.9514 | 1.6794 | -2.3964 | -0.3842 | 0.4625 | 0.3108 | -0.0758 | 3.849 | 7160.5 |
| 7170.5 | 306.90 | -7.72 | 2.9549 | 1.7580 | -2.3416 | -0.3970 | 0.4510 | 0.3267 | -0.0732 | 3.894 | 7170.5 |
| 7180.5 | 308.77 | -7.95 | 2.9581 | 1.8346 | -2.2841 | -0.4094 | 0.4391 | 0.3421 | -0.0705 | 3.923 | 7180.5 |
| 7190.5 | 310.64 | -8.18 | 2.9610 | 1.9090 | -2.2239 | -0.4213 | 0.4267 | 0.3570 | -0.0678 | 3.938 | 7190.5 |
| 7200.5 | 312.51 | -8.39 | 2.9638 | 1.9813 | -2.1613 | -0.4327 | 0.4138 | 0.3715 | -0.0650 | 3.938 | 7200.5 |
| 7210.5 | 314.38 | -8.60 | 2.9663 | 2.0514 | -2.0961 | -0.4436 | 0.4005 | 0.3856 | -0.0621 | 3.922 | 7210.5 |
| 7220.5 | 316.25 | -8.80 | 2.9685 | 2.1191 | -2.0286 | -0.4540 | 0.3868 | 0.3992 | -0.0591 | 3.892 | 7220.5 |
| 7230.5 | 318.12 | -8.99 | 2.9705 | 2.1844 | -1.9588 | -0.4639 | 0.3726 | 0.4123 | -0.0561 | 3.848 | 7230.5 |
| 7240.5 | 319.98 | -9.16 | 2.9723 | 2.2473 | -1.8868 | -0.4733 | 0.3581 | 0.4249 | -0.0530 | 3.790 | 7240.5 |
| 7250.5 | 321.85 | -9.33 | 2.9738 | 2.3076 | -1.8127 | -0.4822 | 0.3432 | 0.4370 | -0.0499 | 3.719 | 7250.5 |
| 7260.5 | 323.72 | -9.49 | 2.9750 | 2.3653 | -1.7365 | -0.4905 | 0.3279 | 0.4486 | -0.0467 | 3.635 | 7260.5 |
| 7270.5 | 325.58 | -9.64 | 2.9760 | 2.4204 | -1.6584 | -0.4983 | 0.3123 | 0.4597 | -0.0435 | 3.541 | 7270.5 |
| 7280.5 | 327.45 | -9.78 | 2.9768 | 2.4727 | -1.5784 | -0.5055 | 0.2963 | 0.4702 | -0.0402 | 3.436 | 7280.5 |
| 7290.5 | 329.32 | -9.90 | 2.9773 | 2.5223 | -1.4966 | -0.5121 | 0.2800 | 0.4802 | -0.0369 | 3.323 | 7290.5 |
| 7300.5 | 331.19 | -10.02 | 2.9775 | 2.5691 | -1.4132 | -0.5181 | 0.2634 | 0.4897 | -0.0335 | 3.202 | 7300.5 |
| 7310.5 | 333.06 | -10.13 | 2.9775 | 2.6129 | -1.3282 | -0.5236 | 0.2466 | 0.4987 | -0.0302 | 3.074 | 7310.5 |
| 7320.5 | 334.93 | -10.23 | 2.9773 | 2.6539 | -1.2417 | -0.5285 | 0.2294 | 0.5070 | -0.0267 | 2.943 | 7320.5 |
| 7330.5 | 336.80 | -10.31 | 2.9767 | 2.6918 | -1.1538 | -0.5328 | 0.2120 | 0.5148 | -0.0233 | 2.809 | 7330.5 |
| 7340.5 | 338.67 | -10.39 | 2.9760 | 2.7268 | -1.0646 | -0.5365 | 0.1943 | 0.5221 | -0.0198 | 2.676 | 7340.5 |
| 7350.5 | 340.55 | -10.45 | 2.9750 | 2.7587 | -0.9742 | -0.5396 | 0.1764 | 0.5287 | -0.0163 | 2.545 | 7350.5 |
| 7360.5 | 342.43 | -10.50 | 2.9737 | 2.7874 | -0.8827 | -0.5421 | 0.1582 | 0.5348 | -0.0127 | 2.419 | 7360.5 |
| 7370.5 | 344.31 | -10.55 | 2.9722 | 2.8131 | -0.7902 | -0.5440 | 0.1399 | 0.5403 | -0.0092 | 2.302 | 7370.5 |
| 7380.5 | 346.19 | -10.58 | 2.9704 | 2.8356 | -0.6968 | -0.5453 | 0.1214 | 0.5452 | -0.0056 | 2.198 | 7380.5 |
| 7390.5 | 348.08 | -10.60 | 2.9684 | 2.8548 | -0.6027 | -0.5459 | 0.1027 | 0.5494 | -0.0020 | 2.110 | 7390.5 |
| 7400.5 | 349.97 | -10.61 | 2.9661 | 2.8709 | -0.5079 | -0.5460 | 0.0838 | 0.5531 | 0.0016 | 2.043 | 7400.5 |
| 7410.5 | 351.86 | -10.60 | 2.9636 | 2.8837 | -0.4124 | -0.5454 | 0.0648 | 0.5561 | 0.0052 | 1.999 | 7410.5 |
| 7420.5 | 353.76 | -10.59 | 2.9609 | 2.8932 | -0.3166 | -0.5442 | 0.0457 | 0.5585 | 0.0088 | 1.982 | 7420.5 |
| 7430.5 | 355.65 | -10.57 | 2.9579 | 2.8994 | -0.2203 | -0.5423 | 0.0265 | 0.5603 | 0.0124 | 1.992 | 7430.5 |
| 7440.5 | 357.56 | -10.53 | 2.9547 | 2.9023 | -0.1238 | -0.5399 | 0.0072 | 0.5615 | 0.0160 | 2.029 | 7440.5 |
| 7450.5 | 359.46 | -10.48 | 2.9512 | 2.9019 | -0.0272 | -0.5368 | -0.0122 | 0.5620 | 0.0196 | 2.091 | 7450.5 |
| 7460.5 | 1.37 | -10.42 | 2.9476 | 2.8981 | 0.0695 | -0.5332 | -0.0316 | 0.5618 | 0.0232 | 2.175 | 7460.5 |
| 7470.5 | 3.29 | -10.35 | 2.9436 | 2.8910 | 0.1661 | -0.5289 | -0.0511 | 0.5610 | 0.0268 | 2.277 | 7470.5 |
| 7480.5 | 5.21 | -10.27 | 2.9395 | 2.8805 | 0.2625 | -0.5240 | -0.0706 | 0.5596 | 0.0303 | 2.392 | 7480.5 |
| 7490.5 | 7.13 | -10.17 | 2.9352 | 2.8667 | 0.3586 | -0.5184 | -0.0901 | 0.5575 | 0.0339 | 2.518 | 7490.5 |
| 7500.5 | 9.06 | -10.07 | 2.9306 | 2.8495 | 0.4542 | -0.5123 | -0.1096 | 0.5547 | 0.0374 | 2.649 | 7500.5 |
| 7510.5 | 10.99 | -9.95 | 2.9258 | 2.8290 | 0.5494 | -0.5056 | -0.1291 | 0.5513 | 0.0409 | 2.784 | 7510.5 |
| 7520.5 | 12.93 | -9.82 | 2.9208 | 2.8051 | 0.6439 | -0.4983 | -0.1485 | 0.5472 | 0.0443 | 2.917 | 7520.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 7530.5 | 14.87 | -9.68 | 2.9157 | 2.7779 | 0.7376 | -0.4903 | -0.1678 | 0.5424 | 0.0477 | 3.048 | 7530.5 |
| 7540.5 | 16.82 | -9.53 | 2.9103 | 2.7474 | 0.8304 | -0.4818 | -0.1870 | 0.5369 | 0.0511 | 3.173 | 7540.5 |
| 7550.5 | 18.77 | -9.37 | 2.9047 | 2.7135 | 0.9223 | -0.4728 | -0.2061 | 0.5308 | 0.0545 | 3.292 | 7550.5 |
| 7560.5 | 20.73 | -9.19 | 2.8990 | 2.6764 | 1.0130 | -0.4631 | -0.2251 | 0.5240 | 0.0578 | 3.401 | 7560.5 |
| 7570.5 | 22.70 | -9.01 | 2.8930 | 2.6361 | 1.1025 | -0.4529 | -0.2439 | 0.5165 | 0.0610 | 3.500 | 7570.5 |
| 7580.5 | 24.67 | -8.81 | 2.8869 | 2.5925 | 1.1907 | -0.4421 | -0.2626 | 0.5083 | 0.0642 | 3.588 | 7580.5 |
| 7590.5 | 26.65 | -8.60 | 2.8807 | 2.5458 | 1.2773 | -0.4308 | -0.2810 | 0.4995 | 0.0673 | 3.664 | 7590.5 |
| 7600.5 | 28.63 | -8.38 | 2.8742 | 2.4959 | 1.3625 | -0.4190 | -0.2992 | 0.4899 | 0.0704 | 3.728 | 7600.5 |
| 7610.5 | 30.62 | -8.15 | 2.8676 | 2.4429 | 1.4459 | -0.4066 | -0.3172 | 0.4797 | 0.0734 | 3.778 | 7610.5 |
| 7620.5 | 32.62 | -7.91 | 2.8609 | 2.3868 | 1.5275 | -0.3937 | -0.3348 | 0.4688 | 0.0763 | 3.814 | 7620.5 |
| 7630.5 | 34.62 | -7.66 | 2.8540 | 2.3277 | 1.6071 | -0.3803 | -0.3522 | 0.4573 | 0.0792 | 3.837 | 7630.5 |
| 7640.5 | 36.63 | -7.40 | 2.8470 | 2.2656 | 1.6847 | -0.3665 | -0.3693 | 0.4451 | 0.0819 | 3.845 | 7640.5 |
| 7650.5 | 38.65 | -7.12 | 2.8399 | 2.2007 | 1.7602 | -0.3522 | -0.3860 | 0.4322 | 0.0846 | 3.840 | 7650.5 |
| 7660.5 | 40.68 | -6.84 | 2.8327 | 2.1328 | 1.8334 | -0.3374 | -0.4023 | 0.4186 | 0.0872 | 3.822 | 7660.5 |
| 7670.5 | 42.72 | -6.55 | 2.8254 | 2.0623 | 1.9042 | -0.3222 | -0.4183 | 0.4044 | 0.0897 | 3.790 | 7670.5 |
| 7680.5 | 44.76 | -6.24 | 2.8179 | 1.9890 | 1.9725 | -0.3065 | -0.4338 | 0.3896 | 0.0921 | 3.745 | 7680.5 |
| 7690.5 | 46.81 | -5.93 | 2.8104 | 1.9131 | 2.0382 | -0.2905 | -0.4488 | 0.3741 | 0.0944 | 3.688 | 7690.5 |
| 7700.5 | 48.87 | -5.61 | 2.8028 | 1.8346 | 2.1012 | -0.2740 | -0.4634 | 0.3580 | 0.0966 | 3.619 | 7700.5 |
| 7710.5 | 50.94 | -5.28 | 2.7951 | 1.7536 | 2.1613 | -0.2572 | -0.4775 | 0.3413 | 0.0987 | 3.538 | 7710.5 |
| 7720.5 | 53.02 | -4.94 | 2.7874 | 1.6703 | 2.2185 | -0.2401 | -0.4910 | 0.3239 | 0.1007 | 3.446 | 7720.5 |
| 7730.5 | 55.11 | -4.59 | 2.7796 | 1.5847 | 2.2727 | -0.2226 | -0.5040 | 0.3060 | 0.1025 | 3.344 | 7730.5 |
| 7740.5 | 57.21 | -4.24 | 2.7718 | 1.4970 | 2.3238 | -0.2048 | -0.5164 | 0.2875 | 0.1043 | 3.233 | 7740.5 |
| 7750.5 | 59.32 | -3.87 | 2.7639 | 1.4071 | 2.3716 | -0.1867 | -0.5282 | 0.2685 | 0.1058 | 3.114 | 7750.5 |
| 7760.5 | 61.44 | -3.50 | 2.7561 | 1.3153 | 2.4161 | -0.1684 | -0.5393 | 0.2489 | 0.1073 | 2.987 | 7760.5 |
| 7770.5 | 63.57 | -3.12 | 2.7482 | 1.2216 | 2.4572 | -0.1498 | -0.5498 | 0.2288 | 0.1086 | 2.854 | 7770.5 |
| 7780.5 | 65.71 | -2.74 | 2.7403 | 1.1262 | 2.4948 | -0.1310 | -0.5596 | 0.2082 | 0.1098 | 2.716 | 7780.5 |
| 7790.5 | 67.86 | -2.35 | 2.7325 | 1.0291 | 2.5288 | -0.1120 | -0.5686 | 0.1871 | 0.1108 | 2.576 | 7790.5 |
| 7800.5 | 70.02 | -1.95 | 2.7247 | 0.9306 | 2.5591 | -0.0929 | -0.5769 | 0.1655 | 0.1117 | 2.435 | 7800.5 |
| 7810.5 | 72.19 | -1.55 | 2.7169 | 0.8307 | 2.5857 | -0.0736 | -0.5844 | 0.1436 | 0.1124 | 2.297 | 7810.5 |
| 7820.5 | 74.37 | -1.15 | 2.7092 | 0.7296 | 2.6085 | -0.0542 | -0.5912 | 0.1212 | 0.1129 | 2.163 | 7820.5 |
| 7830.5 | 76.57 | -0.74 | 2.7015 | 0.6273 | 2.6274 | -0.0348 | -0.5970 | 0.0984 | 0.1133 | 2.037 | 7830.5 |
| 7840.5 | 78.78 | -0.32 | 2.6939 | 0.5242 | 2.6424 | -0.0153 | -0.6021 | 0.0753 | 0.1135 | 1.924 | 7840.5 |
| 7850.5 | 81.00 | 0.09 | 2.6864 | 0.4203 | 2.6533 | 0.0043 | -0.6063 | 0.0519 | 0.1136 | 1.828 | 7850.5 |
| 7860.5 | 83.23 | 0.51 | 2.6790 | 0.3157 | 2.6602 | 0.0238 | -0.6095 | 0.0283 | 0.1135 | 1.752 | 7860.5 |
| 7870.5 | 85.48 | 0.93 | 2.6717 | 0.2106 | 2.6630 | 0.0433 | -0.6119 | 0.0044 | 0.1132 | 1.703 | 7870.5 |
| 7880.5 | 87.74 | 1.35 | 2.6645 | 0.1052 | 2.6617 | 0.0627 | -0.6133 | -0.0198 | 0.1127 | 1.681 | 7880.5 |
| 7890.5 | 90.01 | 1.77 | 2.6575 | -0.0004 | 2.6562 | 0.0820 | -0.6138 | -0.0440 | 0.1120 | 1.689 | 7890.5 |
| 7900.5 | 92.29 | 2.19 | 2.6506 | -0.1059 | 2.6465 | 0.1012 | -0.6133 | -0.0684 | 0.1112 | 1.725 | 7900.5 |
| 7910.5 | 94.59 | 2.61 | 2.6439 | -0.2113 | 2.6327 | 0.1203 | -0.6119 | -0.0929 | 0.1101 | 1.787 | 7910.5 |
| 7920.5 | 96.90 | 3.02 | 2.6373 | -0.3164 | 2.6146 | 0.1391 | -0.6094 | -0.1174 | 0.1089 | 1.870 | 7920.5 |
| 7930.5 | 99.22 | 3.44 | 2.6309 | -0.4209 | 2.5923 | 0.1578 | -0.6059 | -0.1419 | 0.1075 | 1.969 | 7930.5 |
| 7940.5 | 101.56 | 3.85 | 2.6248 | -0.5248 | 2.5657 | 0.1761 | -0.6014 | -0.1664 | 0.1060 | 2.082 | 7940.5 |
| 7950.5 | 103.91 | 4.25 | 2.6188 | -0.6278 | 2.5350 | 0.1942 | -0.5959 | -0.1907 | 0.1042 | 2.202 | 7950.5 |
| 7960.5 | 106.27 | 4.65 | 2.6131 | -0.7297 | 2.5001 | 0.2120 | -0.5894 | -0.2149 | 0.1022 | 2.326 | 7960.5 |
| 7970.5 | 108.65 | 5.05 | 2.6075 | -0.8305 | 2.4611 | 0.2294 | -0.5819 | -0.2389 | 0.1001 | 2.452 | 7970.5 |
| 7980.5 | 111.04 | 5.43 | 2.6023 | -0.9299 | 2.4179 | 0.2464 | -0.5733 | -0.2627 | 0.0978 | 2.578 | 7980.5 |
| 7990.5 | 113.44 | 5.81 | 2.5972 | -1.0277 | 2.3707 | 0.2630 | -0.5637 | -0.2861 | 0.0953 | 2.700 | 7990.5 |
| 8000.5 | 115.85 | 6.18 | 2.5925 | -1.1238 | 2.3195 | 0.2792 | -0.5531 | -0.3092 | 0.0926 | 2.817 | 8000.5 |
| 8010.5 | 118.27 | 6.54 | 2.5880 | -1.2179 | 2.2644 | 0.2948 | -0.5415 | -0.3319 | 0.0898 | 2.928 | 8010.5 |
| 8020.5 | 120.71 | 6.89 | 2.5838 | -1.3100 | 2.2053 | 0.3100 | -0.5289 | -0.3541 | 0.0868 | 3.032 | 8020.5 |
| 8030.5 | 123.16 | 7.23 | 2.5798 | -1.3998 | 2.1425 | 0.3247 | -0.5154 | -0.3759 | 0.0836 | 3.129 | 8030.5 |
| 8040.5 | 125.62 | 7.56 | 2.5762 | -1.4873 | 2.0761 | 0.3388 | -0.5009 | -0.3971 | 0.0803 | 3.217 | 8040.5 |
| 8050.5 | 128.09 | 7.87 | 2.5729 | -1.5721 | 2.0060 | 0.3523 | -0.4855 | -0.4176 | 0.0768 | 3.295 | 8050.5 |
| 8060.5 | 130.57 | 8.17 | 2.5698 | -1.6542 | 1.9324 | 0.3652 | -0.4692 | -0.4376 | 0.0732 | 3.364 | 8060.5 |
| 8070.5 | 133.05 | 8.46 | 2.5671 | -1.7335 | 1.8555 | 0.3775 | -0.4520 | -0.4568 | 0.0694 | 3.423 | 8070.5 |
| 8080.5 | 135.55 | 8.73 | 2.5648 | -1.8097 | 1.7753 | 0.3891 | -0.4339 | -0.4753 | 0.0655 | 3.472 | 8080.5 |
| 8090.5 | 138.05 | 8.98 | 2.5627 | -1.8827 | 1.6920 | 0.4000 | -0.4151 | -0.4930 | 0.0615 | 3.510 | 8090.5 |
| 8100.5 | 140.57 | 9.22 | 2.5610 | -1.9524 | 1.6057 | 0.4102 | -0.3954 | -0.5099 | 0.0573 | 3.537 | 8100.5 |
| 8110.5 | 143.08 | 9.44 | 2.5596 | -2.0187 | 1.5166 | 0.4197 | -0.3751 | -0.5259 | 0.0531 | 3.554 | 8110.5 |
| 8120.5 | 145.61 | 9.64 | 2.5586 | -2.0815 | 1.4249 | 0.4284 | -0.3540 | -0.5410 | 0.0487 | 3.560 | 8120.5 |
| 8130.5 | 148.13 | 9.82 | 2.5579 | -2.1405 | 1.3306 | 0.4364 | -0.3323 | -0.5551 | 0.0443 | 3.555 | 8130.5 |
| 8140.5 | 150.67 | 9.99 | 2.5575 | -2.1958 | 1.2339 | 0.4437 | -0.3100 | -0.5683 | 0.0397 | 3.539 | 8140.5 |
| 8150.5 | 153.20 | 10.14 | 2.5575 | -2.2471 | 1.1351 | 0.4501 | -0.2872 | -0.5805 | 0.0351 | 3.512 | 8150.5 |
| 8160.5 | 155.74 | 10.26 | 2.5578 | -2.2945 | 1.0343 | 0.4557 | -0.2638 | -0.5916 | 0.0305 | 3.474 | 8160.5 |
| 8170.5 | 158.27 | 10.37 | 2.5585 | -2.3379 | 0.9316 | 0.4606 | -0.2400 | -0.6017 | 0.0258 | 3.426 | 8170.5 |
| 8180.5 | 160.81 | 10.46 | 2.5595 | -2.3771 | 0.8273 | 0.4646 | -0.2158 | -0.6108 | 0.0210 | 3.366 | 8180.5 |
| 8190.5 | 163.35 | 10.53 | 2.5608 | -2.4121 | 0.7216 | 0.4678 | -0.1913 | -0.6187 | 0.0162 | 3.297 | 8190.5 |
| 8200.5 | 165.88 | 10.57 | 2.5625 | -2.4429 | 0.6145 | 0.4702 | -0.1664 | -0.6256 | 0.0114 | 3.218 | 8200.5 |
| 8210.5 | 168.41 | 10.60 | 2.5645 | -2.4694 | 0.5064 | 0.4717 | -0.1414 | -0.6313 | 0.0066 | 3.129 | 8210.5 |
| 8220.5 | 170.94 | 10.61 | 2.5669 | -2.4915 | 0.3974 | 0.4725 | -0.1161 | -0.6359 | 0.0018 | 3.031 | 8220.5 |
| 8230.5 | 173.46 | 10.59 | 2.5695 | -2.5093 | 0.2877 | 0.4724 | -0.0907 | -0.6394 | -0.0030 | 2.926 | 8230.5 |
| 8240.5 | 175.98 | 10.56 | 2.5725 | -2.5227 | 0.1775 | 0.4714 | -0.0652 | -0.6417 | -0.0078 | 2.814 | 8240.5 |
| 8250.5 | 178.48 | 10.51 | 2.5758 | -2.5317 | 0.0670 | 0.4697 | -0.0397 | -0.6429 | -0.0125 | 2.696 | 8250.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 8260.5 | 180.99 | 10.43 | 2.5794 | -2.5364 | -0.0437 | 0.4671 | -0.0143 | -0.6431 | -0.0172 | 2.573 | 8260.5 |
| 8270.5 | 183.48 | 10.34 | 2.5833 | -2.5367 | -0.1542 | 0.4638 | 0.0111 | -0.6421 | -0.0219 | 2.448 | 8270.5 |
| 8280.5 | 185.96 | 10.23 | 2.5875 | -2.5326 | -0.2645 | 0.4596 | 0.0363 | -0.6400 | -0.0265 | 2.322 | 8280.5 |
| 8290.5 | 188.44 | 10.10 | 2.5920 | -2.5242 | -0.3743 | 0.4547 | 0.0614 | -0.6368 | -0.0310 | 2.198 | 8290.5 |
| 8300.5 | 190.90 | 9.96 | 2.5967 | -2.5115 | -0.4835 | 0.4490 | 0.0862 | -0.6326 | -0.0354 | 2.078 | 8300.5 |
| 8310.5 | 193.35 | 9.79 | 2.6017 | -2.4945 | -0.5919 | 0.4425 | 0.1107 | -0.6273 | -0.0398 | 1.966 | 8310.5 |
| 8320.5 | 195.79 | 9.61 | 2.6069 | -2.4734 | -0.6993 | 0.4353 | 0.1349 | -0.6210 | -0.0441 | 1.865 | 8320.5 |
| 8330.5 | 198.21 | 9.41 | 2.6124 | -2.4481 | -0.8055 | 0.4273 | 0.1587 | -0.6138 | -0.0483 | 1.779 | 8330.5 |
| 8340.5 | 200.63 | 9.20 | 2.6182 | -2.4188 | -0.9104 | 0.4187 | 0.1821 | -0.6055 | -0.0523 | 1.712 | 8340.5 |
| 8350.5 | 203.02 | 8.97 | 2.6241 | -2.3855 | -1.0138 | 0.4093 | 0.2051 | -0.5963 | -0.0563 | 1.667 | 8350.5 |
| 8360.5 | 205.41 | 8.73 | 2.6302 | -2.3483 | -1.1155 | 0.3993 | 0.2275 | -0.5862 | -0.0601 | 1.647 | 8360.5 |
| 8370.5 | 207.78 | 8.48 | 2.6366 | -2.3072 | -1.2154 | 0.3887 | 0.2495 | -0.5752 | -0.0638 | 1.655 | 8370.5 |
| 8380.5 | 210.14 | 8.21 | 2.6431 | -2.2625 | -1.3134 | 0.3774 | 0.2708 | -0.5634 | -0.0674 | 1.688 | 8380.5 |
| 8390.5 | 212.48 | 7.93 | 2.6498 | -2.2141 | -1.4092 | 0.3655 | 0.2916 | -0.5508 | -0.0709 | 1.746 | 8390.5 |
| 8400.5 | 214.80 | 7.64 | 2.6567 | -2.1622 | -1.5028 | 0.3530 | 0.3118 | -0.5374 | -0.0742 | 1.825 | 8400.5 |
| 8410.5 | 217.11 | 7.33 | 2.6637 | -2.1069 | -1.5941 | 0.3400 | 0.3313 | -0.5232 | -0.0773 | 1.922 | 8410.5 |
| 8420.5 | 219.41 | 7.02 | 2.6709 | -2.0482 | -1.6828 | 0.3264 | 0.3501 | -0.5084 | -0.0804 | 2.033 | 8420.5 |
| 8430.5 | 221.69 | 6.70 | 2.6782 | -1.9864 | -1.7689 | 0.3123 | 0.3683 | -0.4928 | -0.0832 | 2.155 | 8430.5 |
| 8440.5 | 223.95 | 6.37 | 2.6856 | -1.9216 | -1.8523 | 0.2978 | 0.3857 | -0.4767 | -0.0860 | 2.284 | 8440.5 |
| 8450.5 | 226.20 | 6.03 | 2.6931 | -1.8538 | -1.9329 | 0.2828 | 0.4024 | -0.4600 | -0.0885 | 2.417 | 8450.5 |
| 8460.5 | 228.43 | 5.68 | 2.7006 | -1.7832 | -2.0105 | 0.2673 | 0.4183 | -0.4427 | -0.0909 | 2.553 | 8460.5 |
| 8470.5 | 230.65 | 5.33 | 2.7083 | -1.7099 | -2.0852 | 0.2515 | 0.4335 | -0.4249 | -0.0932 | 2.688 | 8470.5 |
| 8480.5 | 232.85 | 4.97 | 2.7160 | -1.6341 | -2.1567 | 0.2353 | 0.4480 | -0.4066 | -0.0953 | 2.822 | 8480.5 |
| 8490.5 | 235.04 | 4.61 | 2.7238 | -1.5558 | -2.2250 | 0.2187 | 0.4616 | -0.3878 | -0.0972 | 2.951 | 8490.5 |
| 8500.5 | 237.21 | 4.24 | 2.7316 | -1.4753 | -2.2901 | 0.2018 | 0.4744 | -0.3687 | -0.0990 | 3.076 | 8500.5 |
| 8510.5 | 239.37 | 3.86 | 2.7395 | -1.3926 | -2.3518 | 0.1847 | 0.4865 | -0.3492 | -0.1006 | 3.194 | 8510.5 |
| 8520.5 | 241.51 | 3.49 | 2.7473 | -1.3080 | -2.4102 | 0.1672 | 0.4977 | -0.3293 | -0.1021 | 3.305 | 8520.5 |
| 8530.5 | 243.64 | 3.11 | 2.7552 | -1.2214 | -2.4651 | 0.1495 | 0.5082 | -0.3092 | -0.1034 | 3.406 | 8530.5 |
| 8540.5 | 245.76 | 2.73 | 2.7631 | -1.1332 | -2.5166 | 0.1316 | 0.5178 | -0.2888 | -0.1046 | 3.498 | 8540.5 |
| 8550.5 | 247.86 | 2.35 | 2.7709 | -1.0433 | -2.5645 | 0.1136 | 0.5267 | -0.2682 | -0.1056 | 3.579 | 8550.5 |
| 8560.5 | 249.95 | 1.97 | 2.7787 | -0.9520 | -2.6088 | 0.0953 | 0.5347 | -0.2473 | -0.1064 | 3.648 | 8560.5 |
| 8570.5 | 252.03 | 1.58 | 2.7865 | -0.8594 | -2.6496 | 0.0770 | 0.5419 | -0.2264 | -0.1071 | 3.705 | 8570.5 |
| 8580.5 | 254.09 | 1.20 | 2.7943 | -0.7656 | -2.6867 | 0.0585 | 0.5484 | -0.2052 | -0.1076 | 3.748 | 8580.5 |
| 8590.5 | 256.15 | 0.82 | 2.8019 | -0.6708 | -2.7202 | 0.0399 | 0.5540 | -0.1840 | -0.1080 | 3.778 | 8590.5 |
| 8600.5 | 258.19 | 0.44 | 2.8096 | -0.5751 | -2.7500 | 0.0213 | 0.5589 | -0.1627 | -0.1083 | 3.794 | 8600.5 |
| 8610.5 | 260.22 | 0.06 | 2.8171 | -0.4786 | -2.7761 | 0.0027 | 0.5629 | -0.1413 | -0.1083 | 3.796 | 8610.5 |
| 8620.5 | 262.24 | -0.32 | 2.8245 | -0.3814 | -2.7986 | -0.0159 | 0.5662 | -0.1200 | -0.1083 | 3.783 | 8620.5 |
| 8630.5 | 264.25 | -0.70 | 2.8319 | -0.2838 | -2.8174 | -0.0345 | 0.5688 | -0.0986 | -0.1081 | 3.756 | 8630.5 |
| 8640.5 | 266.25 | -1.07 | 2.8391 | -0.1858 | -2.8325 | -0.0531 | 0.5705 | -0.0773 | -0.1078 | 3.715 | 8640.5 |
| 8650.5 | 268.24 | -1.44 | 2.8463 | -0.0876 | -2.8440 | -0.0716 | 0.5716 | -0.0561 | -0.1073 | 3.660 | 8650.5 |
| 8660.5 | 270.22 | -1.81 | 2.8533 | 0.0108 | -2.8518 | -0.0900 | 0.5718 | -0.0349 | -0.1067 | 3.592 | 8660.5 |
| 8670.5 | 272.19 | -2.17 | 2.8602 | 0.1091 | -2.8560 | -0.1083 | 0.5714 | -0.0138 | -0.1060 | 3.512 | 8670.5 |
| 8680.5 | 274.15 | -2.53 | 2.8669 | 0.2074 | -2.8566 | -0.1265 | 0.5702 | 0.0071 | -0.1051 | 3.420 | 8680.5 |
| 8690.5 | 276.11 | -2.88 | 2.8735 | 0.3053 | -2.8536 | -0.1445 | 0.5684 | 0.0279 | -0.1041 | 3.318 | 8690.5 |
| 8700.5 | 278.05 | -3.23 | 2.8800 | 0.4029 | -2.8470 | -0.1623 | 0.5658 | 0.0485 | -0.1030 | 3.206 | 8700.5 |
| 8710.5 | 279.99 | -3.57 | 2.8862 | 0.4999 | -2.8369 | -0.1799 | 0.5626 | 0.0689 | -0.1018 | 3.087 | 8710.5 |
| 8720.5 | 281.93 | -3.91 | 2.8924 | 0.5964 | -2.8233 | -0.1973 | 0.5587 | 0.0891 | -0.1004 | 2.962 | 8720.5 |
| 8730.5 | 283.85 | -4.24 | 2.8983 | 0.6921 | -2.8063 | -0.2144 | 0.5541 | 0.1090 | -0.0990 | 2.833 | 8730.5 |
| 8740.5 | 285.77 | -4.57 | 2.9041 | 0.7870 | -2.7858 | -0.2313 | 0.5489 | 0.1287 | -0.0974 | 2.702 | 8740.5 |
| 8750.5 | 287.69 | -4.89 | 2.9097 | 0.8809 | -2.7620 | -0.2480 | 0.5431 | 0.1481 | -0.0957 | 2.572 | 8750.5 |
| 8760.5 | 289.60 | -5.20 | 2.9151 | 0.9738 | -2.7349 | -0.2643 | 0.5366 | 0.1673 | -0.0940 | 2.445 | 8760.5 |
| 8770.5 | 291.50 | -5.51 | 2.9203 | 1.0655 | -2.7045 | -0.2803 | 0.5295 | 0.1861 | -0.0921 | 2.324 | 8770.5 |
| 8780.5 | 293.40 | -5.81 | 2.9253 | 1.1559 | -2.6709 | -0.2959 | 0.5219 | 0.2046 | -0.0901 | 2.214 | 8780.5 |
| 8790.5 | 295.30 | -6.10 | 2.9301 | 1.2450 | -2.6341 | -0.3113 | 0.5137 | 0.2228 | -0.0880 | 2.117 | 8790.5 |
| 8800.5 | 297.19 | -6.38 | 2.9347 | 1.3326 | -2.5942 | -0.3262 | 0.5049 | 0.2407 | -0.0858 | 2.038 | 8800.5 |
| 8810.5 | 299.08 | -6.66 | 2.9390 | 1.4187 | -2.5513 | -0.3408 | 0.4955 | 0.2581 | -0.0836 | 1.981 | 8810.5 |
| 8820.5 | 300.96 | -6.93 | 2.9432 | 1.5031 | -2.5054 | -0.3550 | 0.4856 | 0.2752 | -0.0812 | 1.949 | 8820.5 |
| 8830.5 | 302.84 | -7.19 | 2.9471 | 1.5857 | -2.4567 | -0.3687 | 0.4752 | 0.2919 | -0.0788 | 1.944 | 8830.5 |
| 8840.5 | 304.72 | -7.44 | 2.9508 | 1.6665 | -2.4050 | -0.3821 | 0.4643 | 0.3082 | -0.0763 | 1.966 | 8840.5 |
| 8850.5 | 306.60 | -7.68 | 2.9543 | 1.7454 | -2.3506 | -0.3950 | 0.4529 | 0.3241 | -0.0737 | 2.015 | 8850.5 |
| 8860.5 | 308.47 | -7.92 | 2.9576 | 1.8223 | -2.2935 | -0.4074 | 0.4410 | 0.3396 | -0.0710 | 2.087 | 8860.5 |
| 8870.5 | 310.34 | -8.14 | 2.9606 | 1.8972 | -2.2338 | -0.4194 | 0.4287 | 0.3546 | -0.0682 | 2.181 | 8870.5 |
| 8880.5 | 312.21 | -8.36 | 2.9633 | 1.9698 | -2.1715 | -0.4309 | 0.4159 | 0.3692 | -0.0654 | 2.291 | 8880.5 |
| 8890.5 | 314.08 | -8.57 | 2.9659 | 2.0402 | -2.1068 | -0.4419 | 0.4027 | 0.3833 | -0.0625 | 2.414 | 8890.5 |
| 8900.5 | 315.95 | -8.77 | 2.9682 | 2.1083 | -2.0397 | -0.4524 | 0.3890 | 0.3970 | -0.0596 | 2.546 | 8900.5 |
| 8910.5 | 317.81 | -8.96 | 2.9702 | 2.1740 | -1.9703 | -0.4624 | 0.3749 | 0.4102 | -0.0566 | 2.684 | 8910.5 |
| 8920.5 | 319.68 | -9.14 | 2.9720 | 2.2373 | -1.8986 | -0.4718 | 0.3605 | 0.4229 | -0.0535 | 2.824 | 8920.5 |
| 8930.5 | 321.55 | -9.30 | 2.9735 | 2.2980 | -1.8248 | -0.4808 | 0.3456 | 0.4351 | -0.0504 | 2.964 | 8930.5 |
| 8940.5 | 323.41 | -9.46 | 2.9748 | 2.3562 | -1.7489 | -0.4892 | 0.3304 | 0.4467 | -0.0472 | 3.100 | 8940.5 |
| 8950.5 | 325.28 | -9.61 | 2.9759 | 2.4117 | -1.6711 | -0.4970 | 0.3148 | 0.4579 | -0.0440 | 3.232 | 8950.5 |
| 8960.5 | 327.15 | -9.75 | 2.9767 | 2.4645 | -1.5914 | -0.5043 | 0.2989 | 0.4686 | -0.0408 | 3.356 | 8960.5 |
| 8970.5 | 329.02 | -9.88 | 2.9772 | 2.5145 | -1.5100 | -0.5111 | 0.2827 | 0.4787 | -0.0374 | 3.472 | 8970.5 |
| 8980.5 | 330.88 | -10.00 | 2.9775 | 2.5617 | -1.4268 | -0.5172 | 0.2661 | 0.4882 | -0.0341 | 3.578 | 8980.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 | | | | | | | | | | | 244 |
| 8990.5 | 332.75 | -10.11 | 2.9775 | 2.6060 | -1.3420 | -0.5228 | 0.2493 | 0.4973 | -0.0307 | 3.672 | 8990.5 |
| 9000.5 | 334.62 | -10.21 | 2.9773 | 2.6475 | -1.2557 | -0.5278 | 0.2322 | 0.5057 | -0.0273 | 3.753 | 9000.5 |
| 9010.5 | 336.50 | -10.30 | 2.9768 | 2.6859 | -1.1680 | -0.5322 | 0.2148 | 0.5136 | -0.0238 | 3.822 | 9010.5 |
| 9020.5 | 338.37 | -10.37 | 2.9761 | 2.7213 | -1.0791 | -0.5360 | 0.1972 | 0.5210 | -0.0203 | 3.876 | 9020.5 |
| 9030.5 | 340.25 | -10.44 | 2.9751 | 2.7537 | -0.9888 | -0.5392 | 0.1793 | 0.5277 | -0.0168 | 3.916 | 9030.5 |
| 9040.5 | 342.13 | -10.50 | 2.9739 | 2.7830 | -0.8975 | -0.5418 | 0.1612 | 0.5339 | -0.0133 | 3.941 | 9040.5 |
| 9050.5 | 344.01 | -10.54 | 2.9724 | 2.8092 | -0.8052 | -0.5437 | 0.1429 | 0.5394 | -0.0097 | 3.951 | 9050.5 |
| 9060.5 | 345.89 | -10.57 | 2.9707 | 2.8322 | -0.7120 | -0.5451 | 0.1244 | 0.5444 | -0.0062 | 3.947 | 9060.5 |
| 9070.5 | 347.77 | -10.60 | 2.9687 | 2.8519 | -0.6179 | -0.5459 | 0.1057 | 0.5488 | -0.0026 | 3.928 | 9070.5 |
| 9080.5 | 349.66 | -10.61 | 2.9665 | 2.8685 | -0.5232 | -0.5460 | 0.0869 | 0.5525 | 0.0010 | 3.895 | 9080.5 |
| 9090.5 | 351.55 | -10.61 | 2.9641 | 2.8818 | -0.4279 | -0.5455 | 0.0679 | 0.5557 | 0.0046 | 3.847 | 9090.5 |
| 9100.5 | 353.45 | -10.59 | 2.9613 | 2.8919 | -0.3321 | -0.5444 | 0.0488 | 0.5582 | 0.0082 | 3.787 | 9100.5 |
| 9110.5 | 355.35 | -10.57 | 2.9584 | 2.8986 | -0.2359 | -0.5427 | 0.0296 | 0.5601 | 0.0118 | 3.714 | 9110.5 |
| 9120.5 | 357.25 | -10.54 | 2.9552 | 2.9021 | -0.1394 | -0.5403 | 0.0103 | 0.5613 | 0.0154 | 3.629 | 9120.5 |
| 9130.5 | 359.16 | -10.49 | 2.9518 | 2.9022 | -0.0428 | -0.5374 | -0.0091 | 0.5619 | 0.0190 | 3.534 | 9130.5 |
| 9140.5 | 1.06 | -10.43 | 2.9482 | 2.8989 | 0.0539 | -0.5338 | -0.0285 | 0.5619 | 0.0226 | 3.428 | 9140.5 |
| 9150.5 | 2.98 | -10.36 | 2.9443 | 2.8924 | 0.1505 | -0.5296 | -0.0480 | 0.5612 | 0.0262 | 3.313 | 9150.5 |
| 9160.5 | 4.90 | -10.28 | 2.9402 | 2.8824 | 0.2469 | -0.5248 | -0.0675 | 0.5599 | 0.0297 | 3.191 | 9160.5 |
| 9170.5 | 6.82 | -10.19 | 2.9359 | 2.8691 | 0.3431 | -0.5194 | -0.0870 | 0.5579 | 0.0333 | 3.062 | 9170.5 |
| 9180.5 | 8.75 | -10.09 | 2.9314 | 2.8525 | 0.4388 | -0.5133 | -0.1065 | 0.5552 | 0.0368 | 2.928 | 9180.5 |
| 9190.5 | 10.68 | -9.97 | 2.9266 | 2.8325 | 0.5341 | -0.5067 | -0.1259 | 0.5519 | 0.0403 | 2.792 | 9190.5 |
| 9200.5 | 12.61 | -9.84 | 2.9217 | 2.8092 | 0.6287 | -0.4995 | -0.1454 | 0.5479 | 0.0438 | 2.655 | 9200.5 |
| 9210.5 | 14.56 | -9.71 | 2.9165 | 2.7825 | 0.7225 | -0.4917 | -0.1647 | 0.5432 | 0.0472 | 2.519 | 9210.5 |
| 9220.5 | 16.50 | -9.56 | 2.9112 | 2.7525 | 0.8155 | -0.4832 | -0.1839 | 0.5378 | 0.0506 | 2.387 | 9220.5 |
| 9230.5 | 18.46 | -9.39 | 2.9056 | 2.7192 | 0.9075 | -0.4743 | -0.2031 | 0.5318 | 0.0539 | 2.264 | 9230.5 |
| 9240.5 | 20.41 | -9.22 | 2.8999 | 2.6827 | 0.9984 | -0.4647 | -0.2221 | 0.5251 | 0.0572 | 2.151 | 9240.5 |
| 9250.5 | 22.38 | -9.04 | 2.8940 | 2.6428 | 1.0881 | -0.4546 | -0.2409 | 0.5177 | 0.0605 | 2.055 | 9250.5 |
| 9260.5 | 24.35 | -8.84 | 2.8879 | 2.5998 | 1.1765 | -0.4439 | -0.2596 | 0.5097 | 0.0637 | 1.978 | 9260.5 |
| 9270.5 | 26.33 | -8.64 | 2.8817 | 2.5535 | 1.2635 | -0.4327 | -0.2780 | 0.5009 | 0.0668 | 1.924 | 9270.5 |
| 9280.5 | 28.31 | -8.42 | 2.8753 | 2.5041 | 1.3488 | -0.4209 | -0.2963 | 0.4915 | 0.0699 | 1.897 | 9280.5 |
| 9290.5 | 30.30 | -8.19 | 2.8687 | 2.4516 | 1.4325 | -0.4086 | -0.3143 | 0.4814 | 0.0729 | 1.898 | 9290.5 |
| 9300.5 | 32.29 | -7.95 | 2.8620 | 2.3960 | 1.5144 | -0.3958 | -0.3320 | 0.4706 | 0.0758 | 1.928 | 9300.5 |
| 9310.5 | 34.30 | -7.70 | 2.8552 | 2.3374 | 1.5944 | -0.3825 | -0.3494 | 0.4592 | 0.0787 | 1.984 | 9310.5 |
| 9320.5 | 36.31 | -7.44 | 2.8482 | 2.2758 | 1.6724 | -0.3688 | -0.3665 | 0.4471 | 0.0815 | 2.062 | 9320.5 |
| 9330.5 | 38.33 | -7.17 | 2.8411 | 2.2113 | 1.7482 | -0.3545 | -0.3833 | 0.4343 | 0.0842 | 2.160 | 9330.5 |
| 9340.5 | 40.35 | -6.89 | 2.8339 | 2.1440 | 1.8217 | -0.3398 | -0.3997 | 0.4208 | 0.0868 | 2.272 | 9340.5 |
| 9350.5 | 42.39 | -6.60 | 2.8265 | 2.0738 | 1.8929 | -0.3246 | -0.4157 | 0.4067 | 0.0893 | 2.394 | 9350.5 |
| 9360.5 | 44.43 | -6.29 | 2.8191 | 2.0010 | 1.9616 | -0.3091 | -0.4313 | 0.3920 | 0.0918 | 2.523 | 9360.5 |
| 9370.5 | 46.48 | -5.98 | 2.8116 | 1.9255 | 2.0278 | -0.2931 | -0.4464 | 0.3766 | 0.0941 | 2.654 | 9370.5 |
| 9380.5 | 48.54 | -5.66 | 2.8040 | 1.8474 | 2.0912 | -0.2767 | -0.4611 | 0.3606 | 0.0963 | 2.784 | 9380.5 |
| 9390.5 | 50.61 | -5.33 | 2.7964 | 1.7669 | 2.1518 | -0.2599 | -0.4752 | 0.3440 | 0.0984 | 2.912 | 9390.5 |
| 9400.5 | 52.69 | -5.00 | 2.7886 | 1.6839 | 2.2095 | -0.2428 | -0.4889 | 0.3268 | 0.1004 | 3.035 | 9400.5 |
| 9410.5 | 54.77 | -4.65 | 2.7809 | 1.5987 | 2.2642 | -0.2254 | -0.5020 | 0.3090 | 0.1023 | 3.151 | 9410.5 |
| 9420.5 | 56.87 | -4.29 | 2.7730 | 1.5113 | 2.3157 | -0.2077 | -0.5144 | 0.2906 | 0.1040 | 3.258 | 9420.5 |
| 9430.5 | 58.98 | -3.93 | 2.7652 | 1.4218 | 2.3641 | -0.1896 | -0.5263 | 0.2716 | 0.1056 | 3.356 | 9430.5 |
| 9440.5 | 61.09 | -3.56 | 2.7573 | 1.3302 | 2.4092 | -0.1714 | -0.5376 | 0.2521 | 0.1071 | 3.443 | 9440.5 |
| 9450.5 | 63.22 | -3.19 | 2.7495 | 1.2368 | 2.4508 | -0.1528 | -0.5482 | 0.2321 | 0.1084 | 3.520 | 9450.5 |
| 9460.5 | 65.36 | -2.80 | 2.7416 | 1.1417 | 2.4890 | -0.1341 | -0.5580 | 0.2115 | 0.1096 | 3.584 | 9460.5 |
| 9470.5 | 67.51 | -2.41 | 2.7338 | 1.0449 | 2.5236 | -0.1151 | -0.5672 | 0.1905 | 0.1106 | 3.636 | 9470.5 |
| 9480.5 | 69.67 | -2.02 | 2.7259 | 0.9466 | 2.5545 | -0.0960 | -0.5756 | 0.1690 | 0.1115 | 3.675 | 9480.5 |
| 9490.5 | 71.84 | -1.62 | 2.7181 | 0.8469 | 2.5817 | -0.0768 | -0.5833 | 0.1471 | 0.1123 | 3.702 | 9490.5 |
| 9500.5 | 74.02 | -1.21 | 2.7104 | 0.7460 | 2.6051 | -0.0574 | -0.5901 | 0.1248 | 0.1129 | 3.716 | 9500.5 |
| 9510.5 | 76.22 | -0.80 | 2.7027 | 0.6439 | 2.6246 | -0.0379 | -0.5962 | 0.1021 | 0.1133 | 3.717 | 9510.5 |
| 9520.5 | 78.42 | -0.39 | 2.6951 | 0.5409 | 2.6402 | -0.0184 | -0.6013 | 0.0791 | 0.1135 | 3.706 | 9520.5 |
| 9530.5 | 80.64 | 0.02 | 2.6876 | 0.4371 | 2.6518 | 0.0011 | -0.6057 | 0.0557 | 0.1136 | 3.683 | 9530.5 |
| 9540.5 | 82.87 | 0.44 | 2.6802 | 0.3326 | 2.6594 | 0.0206 | -0.6091 | 0.0321 | 0.1135 | 3.647 | 9540.5 |
| 9550.5 | 85.11 | 0.86 | 2.6729 | 0.2276 | 2.6628 | 0.0401 | -0.6116 | 0.0082 | 0.1132 | 3.599 | 9550.5 |
| 9560.5 | 87.37 | 1.28 | 2.6657 | 0.1222 | 2.6622 | 0.0596 | -0.6132 | -0.0159 | 0.1128 | 3.540 | 9560.5 |
| 9570.5 | 89.64 | 1.70 | 2.6586 | 0.0167 | 2.6574 | 0.0789 | -0.6138 | -0.0401 | 0.1121 | 3.469 | 9570.5 |
| 9580.5 | 91.92 | 2.12 | 2.6517 | -0.0889 | 2.6484 | 0.0982 | -0.6135 | -0.0645 | 0.1113 | 3.388 | 9580.5 |
| 9590.5 | 94.22 | 2.54 | 2.6449 | -0.1943 | 2.6352 | 0.1172 | -0.6122 | -0.0890 | 0.1103 | 3.297 | 9590.5 |
| 9600.5 | 96.53 | 2.96 | 2.6384 | -0.2994 | 2.6178 | 0.1361 | -0.6099 | -0.1135 | 0.1091 | 3.197 | 9600.5 |
| 9610.5 | 98.85 | 3.37 | 2.6320 | -0.4041 | 2.5961 | 0.1548 | -0.6065 | -0.1380 | 0.1078 | 3.087 | 9610.5 |
| 9620.5 | 101.18 | 3.78 | 2.6258 | -0.5081 | 2.5703 | 0.1732 | -0.6022 | -0.1625 | 0.1062 | 2.970 | 9620.5 |
| 9630.5 | 103.53 | 4.19 | 2.6198 | -0.6112 | 2.5403 | 0.1913 | -0.5969 | -0.1868 | 0.1045 | 2.847 | 9630.5 |
| 9640.5 | 105.89 | 4.59 | 2.6140 | -0.7134 | 2.5060 | 0.2091 | -0.5905 | -0.2110 | 0.1026 | 2.717 | 9640.5 |
| 9650.5 | 108.26 | 4.98 | 2.6084 | -0.8143 | 2.4677 | 0.2266 | -0.5831 | -0.2351 | 0.1005 | 2.584 | 9650.5 |
| 9660.5 | 110.65 | 5.37 | 2.6031 | -0.9139 | 2.4252 | 0.2437 | -0.5747 | -0.2589 | 0.0982 | 2.449 | 9660.5 |
| 9670.5 | 113.05 | 5.75 | 2.5980 | -1.0120 | 2.3786 | 0.2603 | -0.5653 | -0.2824 | 0.0957 | 2.313 | 9670.5 |
| 9680.5 | 115.46 | 6.12 | 2.5932 | -1.1084 | 2.3280 | 0.2766 | -0.5549 | -0.3055 | 0.0931 | 2.180 | 9680.5 |
| 9690.5 | 117.88 | 6.48 | 2.5887 | -1.2029 | 2.2735 | 0.2923 | -0.5435 | -0.3283 | 0.0903 | 2.052 | 9690.5 |
| 9700.5 | 120.32 | 6.84 | 2.5844 | -1.2953 | 2.2151 | 0.3076 | -0.5310 | -0.3506 | 0.0873 | 1.932 | 9700.5 |
| 9710.5 | 122.76 | 7.18 | 2.5804 | -1.3855 | 2.1529 | 0.3224 | -0.5176 | -0.3724 | 0.0841 | 1.825 | 9710.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 9720.5 | 125.22 | 7.50 | 2.5768 | -1.4733 | 2.0870 | 0.3366 | -0.5033 | -0.3937 | 0.0808 | 1.734 | 9720.5 |
| 9730.5 | 127.69 | 7.82 | 2.5734 | -1.5586 | 2.0175 | 0.3502 | -0.4880 | -0.4144 | 0.0774 | 1.664 | 9730.5 |
| 9740.5 | 130.16 | 8.12 | 2.5703 | -1.6412 | 1.9445 | 0.3632 | -0.4718 | -0.4344 | 0.0737 | 1.618 | 9740.5 |
| 9750.5 | 132.65 | 8.41 | 2.5676 | -1.7209 | 1.8681 | 0.3755 | -0.4548 | -0.4537 | 0.0700 | 1.599 | 9750.5 |
| 9760.5 | 135.15 | 8.68 | 2.5651 | -1.7976 | 1.7885 | 0.3872 | -0.4369 | -0.4724 | 0.0661 | 1.608 | 9760.5 |
| 9770.5 | 137.65 | 8.94 | 2.5630 | -1.8712 | 1.7057 | 0.3983 | -0.4182 | -0.4902 | 0.0621 | 1.643 | 9770.5 |
| 9780.5 | 140.16 | 9.18 | 2.5613 | -1.9414 | 1.6199 | 0.4086 | -0.3987 | -0.5072 | 0.0580 | 1.703 | 9780.5 |
| 9790.5 | 142.68 | 9.40 | 2.5598 | -2.0083 | 1.5312 | 0.4182 | -0.3784 | -0.5233 | 0.0537 | 1.782 | 9790.5 |
| 9800.5 | 145.20 | 9.61 | 2.5587 | -2.0716 | 1.4399 | 0.4271 | -0.3575 | -0.5386 | 0.0494 | 1.878 | 9800.5 |
| 9810.5 | 147.73 | 9.80 | 2.5580 | -2.1312 | 1.3460 | 0.4352 | -0.3359 | -0.5529 | 0.0450 | 1.986 | 9810.5 |
| 9820.5 | 150.26 | 9.96 | 2.5575 | -2.1871 | 1.2497 | 0.4426 | -0.3137 | -0.5662 | 0.0405 | 2.102 | 9820.5 |
| 9830.5 | 152.79 | 10.11 | 2.5575 | -2.2391 | 1.1512 | 0.4491 | -0.2909 | -0.5786 | 0.0359 | 2.223 | 9830.5 |
| 9840.5 | 155.33 | 10.24 | 2.5577 | -2.2872 | 1.0507 | 0.4549 | -0.2676 | -0.5899 | 0.0312 | 2.347 | 9840.5 |
| 9850.5 | 157.86 | 10.36 | 2.5583 | -2.3312 | 0.9483 | 0.4599 | -0.2439 | -0.6002 | 0.0265 | 2.471 | 9850.5 |
| 9860.5 | 160.40 | 10.45 | 2.5593 | -2.3711 | 0.8443 | 0.4640 | -0.2198 | -0.6094 | 0.0218 | 2.593 | 9860.5 |
| 9870.5 | 162.94 | 10.52 | 2.5606 | -2.4068 | 0.7387 | 0.4674 | -0.1953 | -0.6175 | 0.0170 | 2.712 | 9870.5 |
| 9880.5 | 165.47 | 10.57 | 2.5622 | -2.4382 | 0.6319 | 0.4699 | -0.1705 | -0.6245 | 0.0122 | 2.828 | 9880.5 |
| 9890.5 | 168.00 | 10.60 | 2.5642 | -2.4654 | 0.5239 | 0.4716 | -0.1454 | -0.6304 | 0.0074 | 2.938 | 9890.5 |
| 9900.5 | 170.53 | 10.61 | 2.5665 | -2.4882 | 0.4150 | 0.4724 | -0.1202 | -0.6352 | 0.0026 | 3.041 | 9900.5 |
| 9910.5 | 173.05 | 10.60 | 2.5691 | -2.5067 | 0.3054 | 0.4724 | -0.0948 | -0.6389 | -0.0022 | 3.138 | 9910.5 |
| 9920.5 | 175.57 | 10.57 | 2.5720 | -2.5208 | 0.1953 | 0.4717 | -0.0693 | -0.6414 | -0.0070 | 3.227 | 9920.5 |
| 9930.5 | 178.08 | 10.52 | 2.5753 | -2.5306 | 0.0848 | 0.4700 | -0.0438 | -0.6428 | -0.0117 | 3.307 | 9930.5 |
| 9940.5 | 180.58 | 10.45 | 2.5788 | -2.5359 | -0.0258 | 0.4676 | -0.0184 | -0.6431 | -0.0165 | 3.379 | 9940.5 |
| 9950.5 | 183.08 | 10.36 | 2.5827 | -2.5369 | -0.1364 | 0.4644 | 0.0070 | -0.6423 | -0.0211 | 3.441 | 9950.5 |
| 9960.5 | 185.56 | 10.25 | 2.5868 | -2.5335 | -0.2467 | 0.4604 | 0.0323 | -0.6404 | -0.0257 | 3.493 | 9960.5 |
| 9970.5 | 188.04 | 10.13 | 2.5912 | -2.5258 | -0.3566 | 0.4555 | 0.0574 | -0.6374 | -0.0303 | 3.535 | 9970.5 |
| 9980.5 | 190.50 | 9.98 | 2.5959 | -2.5138 | -0.4659 | 0.4499 | 0.0822 | -0.6334 | -0.0347 | 3.566 | 9980.5 |
| 9990.5 | 192.95 | 9.82 | 2.6009 | -2.4975 | -0.5745 | 0.4436 | 0.1068 | -0.6283 | -0.0391 | 3.586 | 9990.5 |
| 0000.5 | 195.39 | 9.64 | 2.6061 | -2.4771 | -0.6820 | 0.4365 | 0.1310 | -0.6221 | -0.0434 | 3.595 | 0000.5 |
| 0010.5 | 197.82 | 9.45 | 2.6115 | -2.4525 | -0.7885 | 0.4287 | 0.1549 | -0.6150 | -0.0476 | 3.591 | 0010.5 |
| 0020.5 | 200.24 | 9.24 | 2.6172 | -2.4238 | -0.8936 | 0.4201 | 0.1784 | -0.6069 | -0.0517 | 3.576 | 0020.5 |
| 0030.5 | 202.64 | 9.01 | 2.6231 | -2.3911 | -0.9972 | 0.4109 | 0.2014 | -0.5979 | -0.0557 | 3.549 | 0030.5 |
| 0040.5 | 205.03 | 8.77 | 2.6292 | -2.3545 | -1.0992 | 0.4010 | 0.2240 | -0.5879 | -0.0595 | 3.509 | 0040.5 |
| 0050.5 | 207.40 | 8.52 | 2.6356 | -2.3141 | -1.1994 | 0.3904 | 0.2460 | -0.5771 | -0.0632 | 3.458 | 0050.5 |
| 0060.5 | 209.76 | 8.25 | 2.6421 | -2.2699 | -1.2977 | 0.3792 | 0.2674 | -0.5654 | -0.0668 | 3.395 | 0060.5 |
| 0070.5 | 212.10 | 7.97 | 2.6487 | -2.2221 | -1.3939 | 0.3674 | 0.2883 | -0.5529 | -0.0703 | 3.321 | 0070.5 |
| 0080.5 | 214.43 | 7.68 | 2.6556 | -2.1708 | -1.4879 | 0.3550 | 0.3086 | -0.5396 | -0.0736 | 3.236 | 0080.5 |
| 0090.5 | 216.74 | 7.38 | 2.6626 | -2.1160 | -1.5795 | 0.3421 | 0.3282 | -0.5256 | -0.0768 | 3.141 | 0090.5 |
| 0100.5 | 219.04 | 7.07 | 2.6697 | -2.0579 | -1.6686 | 0.3286 | 0.3471 | -0.5108 | -0.0799 | 3.037 | 0100.5 |
| 0110.5 | 221.32 | 6.75 | 2.6770 | -1.9966 | -1.7552 | 0.3146 | 0.3654 | -0.4954 | -0.0828 | 2.925 | 0110.5 |
| 0120.5 | 223.58 | 6.42 | 2.6844 | -1.9323 | -1.8390 | 0.3001 | 0.3829 | -0.4793 | -0.0855 | 2.807 | 0120.5 |
| 0130.5 | 225.83 | 6.08 | 2.6918 | -1.8649 | -1.9201 | 0.2852 | 0.3997 | -0.4627 | -0.0881 | 2.684 | 0130.5 |
| 0140.5 | 228.07 | 5.74 | 2.6994 | -1.7948 | -1.9982 | 0.2698 | 0.4158 | -0.4455 | -0.0906 | 2.557 | 0140.5 |
| 0150.5 | 230.29 | 5.39 | 2.7071 | -1.7219 | -2.0733 | 0.2541 | 0.4311 | -0.4278 | -0.0928 | 2.430 | 0150.5 |
| 0160.5 | 232.49 | 5.03 | 2.7148 | -1.6465 | -2.1453 | -0.2379 | 0.4457 | -0.4095 | -0.0950 | 2.304 | 0160.5 |
| 0170.5 | 234.68 | 4.66 | 2.7225 | -1.5686 | -2.2142 | 0.2214 | 0.4594 | -0.3909 | -0.0969 | 2.183 | 0170.5 |
| 0180.5 | 236.86 | 4.30 | 2.7304 | -1.4885 | -2.2798 | 0.2046 | 0.4724 | -0.3718 | -0.0987 | 2.070 | 0180.5 |
| 0190.5 | 239.02 | 3.93 | 2.7382 | -1.4061 | -2.3421 | 0.1874 | 0.4846 | -0.3524 | -0.1004 | 1.968 | 0190.5 |
| 0200.5 | 241.17 | 3.55 | 2.7461 | -1.3218 | -2.4010 | 0.1700 | 0.4960 | -0.3326 | -0.1019 | 1.883 | 0200.5 |
| 0210.5 | 243.30 | 3.17 | 2.7539 | -1.2355 | -2.4565 | 0.1524 | 0.5066 | -0.3125 | -0.1032 | 1.817 | 0210.5 |
| 0220.5 | 245.42 | 2.79 | 2.7618 | -1.1475 | -2.5085 | 0.1345 | 0.5163 | -0.2921 | -0.1044 | 1.775 | 0220.5 |
| 0230.5 | 247.52 | 2.41 | 2.7697 | -1.0579 | -2.5570 | 0.1165 | 0.5253 | -0.2715 | -0.1054 | 1.759 | 0230.5 |
| 0240.5 | 249.61 | 2.03 | 2.7775 | -0.9669 | -2.6019 | 0.0983 | 0.5335 | -0.2507 | -0.1063 | 1.771 | 0240.5 |
| 0250.5 | 251.69 | 1.64 | 2.7853 | -0.8745 | -2.6432 | 0.0799 | 0.5408 | -0.2298 | -0.1070 | 1.809 | 0250.5 |
| 0260.5 | 253.76 | 1.26 | 2.7930 | -0.7808 | -2.6809 | 0.0615 | 0.5474 | -0.2086 | -0.1075 | 1.873 | 0260.5 |
| 0270.5 | 255.82 | 0.88 | 2.8007 | -0.6862 | -2.7150 | 0.0429 | 0.5532 | -0.1874 | -0.1080 | 1.959 | 0270.5 |
| 0280.5 | 257.86 | 0.50 | 2.8083 | -0.5906 | -2.7454 | 0.0244 | 0.5581 | -0.1661 | -0.1082 | 2.063 | 0280.5 |
| 0290.5 | 259.89 | 0.12 | 2.8159 | -0.4942 | -2.7722 | 0.0057 | 0.5623 | -0.1448 | -0.1083 | 2.182 | 0290.5 |
| 0300.5 | 261.91 | -0.26 | 2.8233 | -0.3972 | -2.7952 | -0.0129 | 0.5658 | -0.1234 | -0.1083 | 2.311 | 0300.5 |
| 0310.5 | 263.92 | -0.64 | 2.8307 | -0.2996 | -2.8146 | -0.0315 | 0.5684 | -0.1021 | -0.1081 | 2.447 | 0310.5 |
| 0320.5 | 265.93 | -1.01 | 2.8380 | -0.2016 | -2.8304 | -0.0501 | 0.5703 | -0.0807 | -0.1078 | 2.588 | 0320.5 |
| 0330.5 | 267.92 | -1.38 | 2.8451 | -0.1034 | -2.8424 | -0.0686 | 0.5714 | -0.0595 | -0.1074 | 2.730 | 0330.5 |
| 0340.5 | 269.90 | -1.75 | 2.8522 | -0.0051 | -2.8508 | -0.0870 | 0.5719 | -0.0383 | -0.1068 | 2.871 | 0340.5 |
| 0350.5 | 271.87 | -2.11 | 2.8591 | 0.0933 | -2.8556 | -0.1054 | 0.5715 | -0.0172 | -0.1061 | 3.008 | 0350.5 |
| 0360.5 | 273.84 | -2.47 | 2.8658 | 0.1915 | -2.8568 | -0.1235 | 0.5705 | 0.0037 | -0.1053 | 3.141 | 0360.5 |
| 0370.5 | 275.79 | -2.82 | 2.8725 | 0.2895 | -2.8543 | -0.1416 | 0.5687 | 0.0245 | -0.1043 | 3.268 | 0370.5 |
| 0380.5 | 277.74 | -3.17 | 2.8789 | 0.3871 | -2.8483 | -0.1594 | 0.5663 | 0.0452 | -0.1032 | 3.386 | 0380.5 |
| 0390.5 | 279.68 | -3.52 | 2.8852 | 0.4843 | -2.8388 | -0.1771 | 0.5632 | 0.0656 | -0.1020 | 3.494 | 0390.5 |
| 0400.5 | 281.62 | -3.86 | 2.8914 | 0.5809 | -2.8258 | -0.1945 | 0.5593 | 0.0858 | -0.1007 | 3.592 | 0400.5 |
| 0410.5 | 283.54 | -4.19 | 2.8974 | 0.6767 | -2.8093 | -0.2117 | 0.5549 | 0.1058 | -0.0992 | 3.678 | 0410.5 |
| 0420.5 | 285.46 | -4.52 | 2.9032 | 0.7717 | -2.7894 | -0.2286 | 0.5498 | 0.1256 | -0.0977 | 3.751 | 0420.5 |
| 0430.5 | 287.38 | -4.84 | 2.9088 | 0.8658 | -2.7661 | -0.2453 | 0.5440 | 0.1450 | -0.0960 | 3.811 | 0430.5 |
| 0440.5 | 289.29 | -5.15 | 2.9142 | 0.9589 | -2.7395 | -0.2617 | 0.5377 | 0.1642 | -0.0942 | 3.857 | 0440.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 0450.5 | 291.20 | -5.46 | 2.9195 | 1.0508 | -2.7096 | -0.2777 | 0.5307 | 0.1831 | -0.0924 | 3.888 | 0450.5 |
| 0460.5 | 293.10 | -5.76 | 2.9245 | 1.1414 | -2.6765 | -0.2934 | 0.5232 | 0.2017 | -0.0904 | 3.904 | 0460.5 |
| 0470.5 | 294.99 | -6.05 | 2.9293 | 1.2307 | -2.6402 | -0.3088 | 0.5150 | 0.2199 | -0.0883 | 3.905 | 0470.5 |
| 0480.5 | 296.88 | -6.34 | 2.9339 | 1.3186 | -2.6009 | -0.3238 | 0.5063 | 0.2378 | -0.0862 | 3.891 | 0480.5 |
| 0490.5 | 298.77 | -6.61 | 2.9384 | 1.4049 | -2.5585 | -0.3385 | 0.4971 | 0.2553 | -0.0839 | 3.862 | 0490.5 |
| 0500.5 | 300.66 | -6.88 | 2.9425 | 1.4896 | -2.5130 | -0.3527 | 0.4873 | 0.2725 | -0.0816 | 3.819 | 0500.5 |
| 0510.5 | 302.54 | -7.15 | 2.9465 | 1.5725 | -2.4647 | -0.3665 | 0.4770 | 0.2893 | -0.0792 | 3.762 | 0510.5 |
| 0520.5 | 304.42 | -7.40 | 2.9503 | 1.6536 | -2.4135 | -0.3799 | 0.4661 | 0.3056 | -0.0767 | 3.692 | 0520.5 |
| 0530.5 | 306.29 | -7.64 | 2.9538 | 1.7328 | -2.3596 | -0.3929 | 0.4548 | 0.3216 | -0.0741 | 3.609 | 0530.5 |
| 0540.5 | 308.17 | -7.88 | 2.9571 | 1.8101 | -2.3029 | -0.4054 | 0.4430 | 0.3371 | -0.0714 | 3.516 | 0540.5 |
| 0550.5 | 310.04 | -8.11 | 2.9601 | 1.8852 | -2.2436 | -0.4175 | 0.4307 | 0.3522 | -0.0687 | 3.411 | 0550.5 |
| 0560.5 | 311.91 | -8.33 | 2.9629 | 1.9582 | -2.1818 | -0.4290 | 0.4180 | 0.3669 | -0.0659 | 3.298 | 0560.5 |
| 0570.5 | 313.78 | -8.54 | 2.9655 | 2.0290 | -2.1174 | -0.4401 | 0.4048 | 0.3811 | -0.0630 | 3.178 | 0570.5 |
| 0580.5 | 315.65 | -8.74 | 2.9678 | 2.0975 | -2.0507 | -0.4507 | 0.3912 | 0.3948 | -0.0601 | 3.051 | 0580.5 |
| 0590.5 | 317.51 | -8.93 | 2.9699 | 2.1636 | -1.9816 | -0.4608 | 0.3772 | 0.4081 | -0.0571 | 2.921 | 0590.5 |
| 0600.5 | 319.38 | -9.11 | 2.9717 | 2.2272 | -1.9103 | -0.4704 | 0.3628 | 0.4209 | -0.0540 | 2.788 | 0600.5 |
| 0610.5 | 321.25 | -9.28 | 2.9733 | 2.2884 | -1.8369 | -0.4794 | 0.3480 | 0.4331 | -0.0509 | 2.656 | 0610.5 |
| 0620.5 | 323.11 | -9.44 | 2.9746 | 2.3470 | -1.7613 | -0.4879 | 0.3329 | 0.4449 | -0.0478 | 2.527 | 0620.5 |
| 0630.5 | 324.98 | -9.59 | 2.9757 | 2.4029 | -1.6838 | -0.4958 | 0.3174 | 0.4561 | -0.0445 | 2.403 | 0630.5 |
| 0640.5 | 326.85 | -9.73 | 2.9766 | 2.4561 | -1.6044 | -0.5032 | 0.3015 | 0.4669 | -0.0413 | 2.290 | 0640.5 |
| 0650.5 | 328.71 | -9.86 | 2.9771 | 2.5066 | -1.5232 | -0.5100 | 0.2853 | 0.4771 | -0.0380 | 2.189 | 0650.5 |
| 0660.5 | 330.58 | -9.98 | 2.9775 | 2.5543 | -1.4403 | -0.5163 | 0.2688 | 0.4867 | -0.0346 | 2.105 | 0660.5 |
| 0670.5 | 332.45 | -10.10 | 2.9775 | 2.5991 | -1.3558 | -0.5219 | 0.2520 | 0.4958 | -0.0313 | 2.043 | 0670.5 |
| 0680.5 | 334.32 | -10.20 | 2.9774 | 2.6410 | -1.2698 | -0.5270 | 0.2350 | 0.5044 | -0.0278 | 2.004 | 0680.5 |
| 0690.5 | 336.19 | -10.28 | 2.9769 | 2.6799 | -1.1823 | -0.5315 | 0.2176 | 0.5124 | -0.0244 | 1.992 | 0690.5 |
| 0700.5 | 338.07 | -10.36 | 2.9763 | 2.7158 | -1.0935 | -0.5354 | 0.2000 | 0.5198 | -0.0209 | 2.007 | 0700.5 |
| 0710.5 | 339.94 | -10.43 | 2.9753 | 2.7487 | -1.0035 | -0.5387 | 0.1822 | 0.5267 | -0.0174 | 2.048 | 0710.5 |
| 0720.5 | 341.82 | -10.49 | 2.9741 | 2.7785 | -0.9123 | -0.5414 | 0.1641 | 0.5329 | -0.0139 | 2.115 | 0720.5 |
| 0730.5 | 343.70 | -10.53 | 2.9727 | 2.8052 | -0.8202 | -0.5435 | 0.1458 | 0.5386 | -0.0103 | 2.202 | 0730.5 |
| 0740.5 | 345.58 | -10.57 | 2.9710 | 2.8287 | -0.7271 | -0.5449 | 0.1274 | 0.5437 | -0.0068 | 2.307 | 0740.5 |
| 0750.5 | 347.47 | -10.59 | 2.9691 | 2.8490 | -0.6332 | -0.5458 | 0.1087 | 0.5481 | -0.0032 | 2.425 | 0750.5 |
| 0760.5 | 349.36 | -10.60 | 2.9669 | 2.8661 | -0.5385 | -0.5460 | 0.0899 | 0.5520 | 0.0004 | 2.553 | 0760.5 |
| 0770.5 | 351.25 | -10.61 | 2.9645 | 2.8799 | -0.4433 | -0.5456 | 0.0710 | 0.5552 | 0.0040 | 2.687 | 0770.5 |
| 0780.5 | 353.14 | -10.60 | 2.9618 | 2.8905 | -0.3476 | -0.5446 | 0.0519 | 0.5578 | 0.0076 | 2.823 | 0780.5 |
| 0790.5 | 355.04 | -10.57 | 2.9589 | 2.8978 | -0.2514 | -0.5430 | 0.0327 | 0.5598 | 0.0112 | 2.958 | 0790.5 |
| 0800.5 | 356.94 | -10.54 | 2.9558 | 2.9017 | -0.1550 | -0.5408 | 0.0134 | 0.5612 | 0.0148 | 3.091 | 0800.5 |
| 0810.5 | 358.85 | -10.50 | 2.9524 | 2.9024 | -0.0584 | -0.5379 | -0.0059 | 0.5619 | 0.0184 | 3.218 | 0810.5 |
| 0820.5 | 0.76 | -10.44 | 2.9488 | 2.8997 | 0.0383 | -0.5344 | -0.0254 | 0.5619 | 0.0220 | 3.338 | 0820.5 |
| 0830.5 | 2.67 | -10.37 | 2.9449 | 2.8936 | 0.1349 | -0.5303 | -0.0448 | 0.5614 | 0.0256 | 3.449 | 0830.5 |
| 0840.5 | 4.59 | -10.30 | 2.9409 | 2.8843 | 0.2314 | -0.5256 | -0.0643 | 0.5601 | 0.0292 | 3.550 | 0840.5 |
| 0850.5 | 6.51 | -10.21 | 2.9366 | 2.8715 | 0.3276 | -0.5203 | -0.0838 | 0.5582 | 0.0327 | 3.639 | 0850.5 |
| 0860.5 | 8.43 | -10.10 | 2.9321 | 2.8554 | 0.4234 | -0.5144 | -0.1033 | 0.5557 | 0.0362 | 3.716 | 0860.5 |
| 0870.5 | 10.37 | -9.99 | 2.9274 | 2.8360 | 0.5187 | -0.5078 | -0.1228 | 0.5525 | 0.0397 | 3.780 | 0870.5 |
| 0880.5 | 12.30 | -9.86 | 2.9225 | 2.8132 | 0.6134 | -0.5007 | -0.1422 | 0.5486 | 0.0432 | 3.831 | 0880.5 |
| 0890.5 | 14.24 | -9.73 | 2.9174 | 2.7870 | 0.7074 | -0.4930 | -0.1616 | 0.5440 | 0.0466 | 3.867 | 0890.5 |
| 0900.5 | 16.19 | -9.58 | 2.9120 | 2.7576 | 0.8006 | -0.4846 | -0.1808 | 0.5388 | 0.0500 | 3.889 | 0900.5 |
| 0910.5 | 18.14 | -9.42 | 2.9065 | 2.7248 | 0.8927 | -0.4758 | -0.2000 | 0.5328 | 0.0534 | 3.897 | 0910.5 |
| 0920.5 | 20.10 | -9.25 | 2.9008 | 2.6888 | 0.9838 | -0.4663 | -0.2190 | 0.5262 | 0.0567 | 3.891 | 0920.5 |
| 0930.5 | 22.06 | -9.07 | 2.8950 | 2.6495 | 1.0737 | -0.4562 | -0.2379 | 0.5190 | 0.0600 | 3.871 | 0930.5 |
| 0940.5 | 24.03 | -8.87 | 2.8889 | 2.6070 | 1.1623 | -0.4457 | -0.2566 | 0.5110 | 0.0632 | 3.837 | 0940.5 |
| 0950.5 | 26.01 | -8.67 | 2.8827 | 2.5612 | 1.2495 | -0.4345 | -0.2751 | 0.5024 | 0.0663 | 3.790 | 0950.5 |
| 0960.5 | 27.99 | -8.45 | 2.8763 | 2.5123 | 1.3352 | -0.4228 | -0.2933 | 0.4931 | 0.0694 | 3.730 | 0960.5 |
| 0970.5 | 29.98 | -8.23 | 2.8698 | 2.4603 | 1.4191 | -0.4106 | -0.3114 | 0.4831 | 0.0724 | 3.658 | 0970.5 |
| 0980.5 | 31.97 | -7.99 | 2.8631 | 2.4052 | 1.5013 | -0.3979 | -0.3292 | 0.4724 | 0.0754 | 3.574 | 0980.5 |
| 0990.5 | 33.97 | -7.74 | 2.8563 | 2.3471 | 1.5816 | -0.3847 | -0.3466 | 0.4611 | 0.0783 | 3.479 | 0990.5 |
| 1000.5 | 35.98 | -7.48 | 2.8493 | 2.2860 | 1.6599 | -0.3710 | -0.3638 | 0.4491 | 0.0811 | 3.375 | 1000.5 |
| 1010.5 | 38.00 | -7.21 | 2.8422 | 2.2219 | 1.7361 | -0.3568 | -0.3806 | 0.4364 | 0.0838 | 3.261 | 1010.5 |
| 1020.5 | 40.03 | -6.93 | 2.8350 | 2.1550 | 1.8100 | -0.3422 | -0.3971 | 0.4231 | 0.0864 | 3.139 | 1020.5 |
| 1030.5 | 42.06 | -6.64 | 2.8277 | 2.0853 | 1.8816 | -0.3271 | -0.4132 | 0.4091 | 0.0889 | 3.010 | 1030.5 |
| 1040.5 | 44.10 | -6.34 | 2.8203 | 2.0129 | 1.9507 | -0.3116 | -0.4288 | 0.3944 | 0.0914 | 2.875 | 1040.5 |
| 1050.5 | 46.15 | -6.03 | 2.8128 | 1.9378 | 2.0173 | -0.2957 | -0.4440 | 0.3792 | 0.0937 | 2.737 | 1050.5 |
| 1060.5 | 48.21 | -5.72 | 2.8052 | 1.8602 | 2.0811 | -0.2794 | -0.4588 | 0.3632 | 0.0959 | 2.597 | 1060.5 |
| 1070.5 | 50.28 | -5.39 | 2.7976 | 1.7800 | 2.1422 | -0.2627 | -0.4730 | 0.3467 | 0.0981 | 2.456 | 1070.5 |
| 1080.5 | 52.35 | -5.05 | 2.7899 | 1.6975 | 2.2004 | -0.2456 | -0.4867 | 0.3296 | 0.1001 | 2.319 | 1080.5 |
| 1090.5 | 54.44 | -4.71 | 2.7821 | 1.6126 | 2.2556 | -0.2283 | -0.4999 | 0.3119 | 0.1020 | 2.188 | 1090.5 |
| 1100.5 | 56.53 | -4.35 | 2.7743 | 1.5255 | 2.3076 | -0.2106 | -0.5125 | 0.2936 | 0.1037 | 2.067 | 1100.5 |
| 1110.5 | 58.64 | -3.99 | 2.7665 | 1.4363 | 2.3565 | -0.1926 | -0.5245 | 0.2747 | 0.1053 | 1.959 | 1110.5 |
| 1120.5 | 60.75 | -3.62 | 2.7586 | 1.3451 | 2.4021 | -0.1743 | -0.5358 | 0.2553 | 0.1068 | 1.870 | 1120.5 |
| 1130.5 | 62.88 | -3.25 | 2.7507 | 1.2520 | 2.4443 | -0.1558 | -0.5465 | 0.2353 | 0.1082 | 1.804 | 1130.5 |
| 1140.5 | 65.01 | -2.87 | 2.7429 | 1.1572 | 2.4830 | -0.1371 | -0.5565 | 0.2149 | 0.1094 | 1.764 | 1140.5 |
| 1150.5 | 67.16 | -2.48 | 2.7350 | 1.0606 | 2.5182 | -0.1182 | -0.5658 | 0.1939 | 0.1105 | 1.752 | 1150.5 |
| 1160.5 | 69.32 | -2.08 | 2.7272 | 0.9626 | 2.5497 | -0.0991 | -0.5743 | 0.1725 | 0.1114 | 1.771 | 1160.5 |
| 1170.5 | 71.49 | -1.68 | 2.7194 | 0.8631 | 2.5776 | -0.0799 | -0.5821 | 0.1507 | 0.1122 | 1.817 | 1170.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 1180.5 | 73.67 | -1.28 | 2.7116 | 0.7623 | 2.6016 | -0.0605 | -0.5891 | 0.1285 | 0.1128 | 1.887 | 1180.5 |
| 1190.5 | 75.86 | -0.87 | 2.7040 | 0.6605 | 2.6217 | -0.0411 | -0.5952 | 0.1058 | 0.1132 | 1.978 | 1190.5 |
| 1200.5 | 78.06 | -0.46 | 2.6963 | 0.5576 | 2.6380 | -0.0216 | -0.6006 | 0.0828 | 0.1135 | 2.084 | 1200.5 |
| 1210.5 | 80.28 | -0.04 | 2.6888 | 0.4539 | 2.6502 | -0.0020 | -0.6050 | 0.0595 | 0.1136 | 2.201 | 1210.5 |
| 1220.5 | 82.51 | 0.37 | 2.6814 | 0.3495 | 2.6584 | 0.0175 | -0.6086 | 0.0359 | 0.1135 | 2.325 | 1220.5 |
| 1230.5 | 84.75 | 0.79 | 2.6740 | 0.2446 | 2.6626 | 0.0370 | -0.6112 | 0.0121 | 0.1133 | 2.453 | 1230.5 |
| 1240.5 | 87.01 | 1.21 | 2.6668 | 0.1393 | 2.6626 | 0.0565 | -0.6130 | -0.0120 | 0.1129 | 2.581 | 1240.5 |
| 1250.5 | 89.27 | 1.63 | 2.6597 | 0.0337 | 2.6584 | 0.0758 | -0.6138 | -0.0362 | 0.1123 | 2.707 | 1250.5 |
| 1260.5 | 91.55 | 2.05 | 2.6528 | -0.0719 | 2.6501 | 0.0951 | -0.6136 | -0.0605 | 0.1115 | 2.829 | 1260.5 |
| 1270.5 | 93.85 | 2.47 | 2.6460 | -0.1773 | 2.6376 | 0.1142 | -0.6124 | -0.0850 | 0.1105 | 2.945 | 1270.5 |
| 1280.5 | 96.15 | 2.89 | 2.6394 | -0.2825 | 2.6209 | 0.1331 | -0.6103 | -0.1095 | 0.1093 | 3.053 | 1280.5 |
| 1290.5 | 98.47 | 3.30 | 2.6330 | -0.3872 | 2.5999 | 0.1518 | -0.6071 | -0.1340 | 0.1080 | 3.154 | 1290.5 |
| 1300.5 | 100.80 | 3.72 | 2.6267 | -0.4913 | 2.5748 | 0.1702 | -0.6030 | -0.1585 | 0.1065 | 3.245 | 1300.5 |
| 1310.5 | 103.15 | 4.12 | 2.6207 | -0.5946 | 2.5454 | 0.1884 | -0.5978 | -0.1829 | 0.1048 | 3.327 | 1310.5 |
| 1320.5 | 105.51 | 4.52 | 2.6149 | -0.6969 | 2.5118 | 0.2063 | -0.5916 | -0.2071 | 0.1029 | 3.398 | 1320.5 |
| 1330.5 | 107.88 | 4.92 | 2.6093 | -0.7981 | 2.4741 | 0.2238 | -0.5844 | -0.2312 | 0.1008 | 3.459 | 1330.5 |
| 1340.5 | 110.26 | 5.31 | 2.6039 | -0.8980 | 2.4323 | 0.2409 | -0.5762 | -0.2550 | 0.0986 | 3.509 | 1340.5 |
| 1350.5 | 112.66 | 5.69 | 2.5988 | -0.9963 | 2.3864 | 0.2577 | -0.5669 | -0.2786 | 0.0961 | 3.547 | 1350.5 |
| 1360.5 | 115.07 | 6.06 | 2.5940 | -1.0929 | 2.3365 | 0.2740 | -0.5566 | -0.3018 | 0.0935 | 3.575 | 1360.5 |
| 1370.5 | 117.49 | 6.43 | 2.5894 | -1.1877 | 2.2826 | 0.2898 | -0.5454 | -0.3246 | 0.0907 | 3.591 | 1370.5 |
| 1380.5 | 119.92 | 6.78 | 2.5851 | -1.2805 | 2.2248 | 0.3052 | -0.5331 | -0.3470 | 0.0878 | 3.595 | 1380.5 |
| 1390.5 | 122.37 | 7.12 | 2.5811 | -1.3711 | 2.1632 | 0.3200 | -0.5199 | -0.3689 | 0.0846 | 3.589 | 1390.5 |
| 1400.5 | 124.82 | 7.45 | 2.5773 | -1.4593 | 2.0979 | 0.3343 | -0.5057 | -0.3903 | 0.0814 | 3.571 | 1400.5 |
| 1410.5 | 127.29 | 7.77 | 2.5739 | -1.5450 | 2.0290 | 0.3480 | -0.4906 | -0.4111 | 0.0779 | 3.541 | 1410.5 |
| 1420.5 | 129.76 | 8.07 | 2.5708 | -1.6280 | 1.9565 | 0.3611 | -0.4745 | -0.4312 | 0.0743 | 3.501 | 1420.5 |
| 1430.5 | 132.25 | 8.36 | 2.5680 | -1.7082 | 1.8807 | 0.3736 | -0.4576 | -0.4507 | 0.0706 | 3.450 | 1430.5 |
| 1440.5 | 134.74 | 8.64 | 2.5655 | -1.7854 | 1.8015 | 0.3854 | -0.4398 | -0.4694 | 0.0668 | 3.389 | 1440.5 |
| 1450.5 | 137.24 | 8.90 | 2.5633 | -1.8595 | 1.7192 | 0.3965 | -0.4212 | -0.4874 | 0.0628 | 3.317 | 1450.5 |
| 1460.5 | 139.75 | 9.14 | 2.5615 | -1.9303 | 1.6339 | 0.4070 | -0.4019 | -0.5045 | 0.0587 | 3.236 | 1460.5 |
| 1470.5 | 142.27 | 9.37 | 2.5600 | -1.9977 | 1.5457 | 0.4167 | -0.3817 | -0.5208 | 0.0544 | 3.145 | 1470.5 |
| 1480.5 | 144.79 | 9.58 | 2.5589 | -2.0616 | 1.4548 | 0.4257 | -0.3609 | -0.5362 | 0.0501 | 3.046 | 1480.5 |
| 1490.5 | 147.32 | 9.77 | 2.5581 | -2.1218 | 1.3613 | 0.4339 | -0.3394 | -0.5507 | 0.0457 | 2.939 | 1490.5 |
| 1500.5 | 149.85 | 9.94 | 2.5576 | -2.1783 | 1.2654 | 0.4414 | -0.3173 | -0.5642 | 0.0412 | 2.825 | 1500.5 |
| 1510.5 | 152.38 | 10.09 | 2.5574 | -2.2310 | 1.1673 | 0.4481 | -0.2946 | -0.5767 | 0.0366 | 2.706 | 1510.5 |
| 1520.5 | 154.92 | 10.22 | 2.5577 | -2.2797 | 1.0670 | 0.4540 | -0.2714 | -0.5882 | 0.0320 | 2.582 | 1520.5 |
| 1530.5 | 157.45 | 10.34 | 2.5582 | -2.3243 | 0.9650 | 0.4591 | -0.2478 | -0.5986 | 0.0273 | 2.455 | 1530.5 |
| 1540.5 | 159.99 | 10.43 | 2.5591 | -2.3649 | 0.8612 | 0.4634 | -0.2237 | -0.6080 | 0.0226 | 2.327 | 1540.5 |
| 1550.5 | 162.53 | 10.51 | 2.5604 | -2.4013 | 0.7559 | 0.4669 | -0.1992 | -0.6163 | 0.0178 | 2.201 | 1550.5 |
| 1560.5 | 165.06 | 10.56 | 2.5619 | -2.4334 | 0.6492 | 0.4695 | -0.1745 | -0.6235 | 0.0130 | 2.078 | 1560.5 |
| 1570.5 | 167.59 | 10.59 | 2.5638 | -2.4613 | 0.5414 | 0.4713 | -0.1495 | -0.6296 | 0.0082 | 1.963 | 1570.5 |
| 1580.5 | 170.12 | 10.61 | 2.5661 | -2.4848 | 0.4327 | 0.4723 | -0.1243 | -0.6345 | 0.0034 | 1.857 | 1580.5 |
| 1590.5 | 172.65 | 10.60 | 2.5686 | -2.5040 | 0.3232 | 0.4725 | -0.0989 | -0.6384 | -0.0014 | 1.766 | 1590.5 |
| 1600.5 | 175.16 | 10.57 | 2.5715 | -2.5189 | 0.2131 | 0.4718 | -0.0734 | -0.6411 | -0.0062 | 1.693 | 1600.5 |
| 1610.5 | 177.68 | 10.53 | 2.5747 | -2.5293 | 0.1027 | 0.4704 | -0.0480 | -0.6427 | -0.0110 | 1.641 | 1610.5 |
| 1620.5 | 180.18 | 10.46 | 2.5782 | -2.5354 | -0.0079 | 0.4681 | -0.0225 | -0.6431 | -0.0157 | 1.614 | 1620.5 |
| 1630.5 | 182.67 | 10.37 | 2.5820 | -2.5370 | -0.1185 | 0.4650 | 0.0029 | -0.6425 | -0.0204 | 1.613 | 1630.5 |
| 1640.5 | 185.16 | 10.27 | 2.5861 | -2.5344 | -0.2289 | 0.4611 | 0.0282 | -0.6408 | -0.0250 | 1.638 | 1640.5 |
| 1650.5 | 187.64 | 10.15 | 2.5905 | -2.5273 | -0.3389 | 0.4564 | 0.0533 | -0.6380 | -0.0295 | 1.688 | 1650.5 |
| 1660.5 | 190.10 | 10.01 | 2.5951 | -2.5160 | -0.4483 | 0.4509 | 0.0782 | -0.6341 | -0.0340 | 1.760 | 1660.5 |
| 1670.5 | 192.56 | 9.85 | 2.6001 | -2.5005 | -0.5570 | 0.4447 | 0.1028 | -0.6291 | -0.0384 | 1.849 | 1670.5 |
| 1680.5 | 195.00 | 9.67 | 2.6052 | -2.4807 | -0.6647 | 0.4377 | 0.1271 | -0.6232 | -0.0427 | 1.953 | 1680.5 |
| 1690.5 | 197.43 | 9.48 | 2.6106 | -2.4567 | -0.7714 | 0.4300 | 0.1511 | -0.6162 | -0.0469 | 2.069 | 1690.5 |
| 1700.5 | 199.85 | 9.27 | 2.6163 | -2.4287 | -0.8767 | 0.4216 | 0.1746 | -0.6083 | -0.0510 | 2.191 | 1700.5 |
| 1710.5 | 202.25 | 9.05 | 2.6222 | -2.3967 | -0.9806 | 0.4124 | 0.1977 | -0.5994 | -0.0550 | 2.319 | 1710.5 |
| 1720.5 | 204.64 | 8.81 | 2.6282 | -2.3607 | -1.0829 | 0.4026 | 0.2204 | -0.5896 | -0.0589 | 2.449 | 1720.5 |
| 1730.5 | 207.02 | 8.56 | 2.6345 | -2.3209 | -1.1834 | 0.3922 | 0.2425 | -0.5789 | -0.0627 | 2.580 | 1730.5 |
| 1740.5 | 209.38 | 8.30 | 2.6410 | -2.2773 | -1.2820 | 0.3811 | 0.2640 | -0.5673 | -0.0663 | 2.709 | 1740.5 |
| 1750.5 | 211.72 | 8.02 | 2.6477 | -2.2301 | -1.3785 | 0.3694 | 0.2850 | -0.5549 | -0.0698 | 2.835 | 1750.5 |
| 1760.5 | 214.05 | 7.73 | 2.6545 | -2.1793 | -1.4729 | 0.3571 | 0.3053 | -0.5418 | -0.0731 | 2.957 | 1760.5 |
| 1770.5 | 216.37 | 7.43 | 2.6614 | -2.1251 | -1.5649 | 0.3442 | 0.3251 | -0.5279 | -0.0763 | 3.073 | 1770.5 |
| 1780.5 | 218.67 | 7.12 | 2.6686 | -2.0675 | -1.6544 | 0.3308 | 0.3441 | -0.5132 | -0.0794 | 3.183 | 1780.5 |
| 1790.5 | 220.95 | 6.80 | 2.6758 | -2.0067 | -1.7414 | 0.3169 | 0.3625 | -0.4979 | -0.0823 | 3.285 | 1790.5 |
| 1800.5 | 223.22 | 6.47 | 2.6832 | -1.9428 | -1.8257 | 0.3025 | 0.3801 | -0.4820 | -0.0851 | 3.378 | 1800.5 |
| 1810.5 | 225.47 | 6.14 | 2.6906 | -1.8760 | -1.9072 | 0.2877 | 0.3971 | -0.4654 | -0.0877 | 3.462 | 1810.5 |
| 1820.5 | 227.71 | 5.79 | 2.6982 | -1.8063 | -1.9858 | 0.2723 | 0.4133 | -0.4483 | -0.0902 | 3.535 | 1820.5 |
| 1830.5 | 229.93 | 5.44 | 2.7058 | -1.7338 | -2.0614 | 0.2566 | 0.4287 | -0.4307 | -0.0925 | 3.597 | 1830.5 |
| 1840.5 | 232.14 | 5.09 | 2.7135 | -1.6588 | -2.1339 | 0.2405 | 0.4434 | -0.4125 | -0.0946 | 3.648 | 1840.5 |
| 1850.5 | 234.33 | 4.72 | 2.7213 | -1.5813 | -2.2033 | 0.2241 | 0.4573 | -0.3939 | -0.0966 | 3.686 | 1850.5 |
| 1860.5 | 236.51 | 4.36 | 2.7291 | -1.5015 | -2.2694 | 0.2073 | 0.4704 | -0.3749 | -0.0985 | 3.711 | 1860.5 |
| 1870.5 | 238.67 | 3.99 | 2.7369 | -1.4196 | -2.3323 | 0.1902 | 0.4827 | -0.3555 | -0.1001 | 3.723 | 1870.5 |
| 1880.5 | 240.82 | 3.61 | 2.7448 | -1.3355 | -2.3917 | 0.1729 | 0.4942 | -0.3358 | -0.1016 | 3.721 | 1880.5 |
| 1890.5 | 242.96 | 3.23 | 2.7527 | -1.2496 | -2.4478 | 0.1553 | 0.5049 | -0.3157 | -0.1030 | 3.706 | 1890.5 |
| 1900.5 | 245.08 | 2.85 | 2.7605 | -1.1619 | -2.5003 | 0.1374 | 0.5148 | -0.2954 | -0.1042 | 3.677 | 1900.5 |
| 245 | | | | | | | | | | | 245 |

# VESTA POSITION AND VELOCITY DATA

# FOR THE YEARS 1969-2000

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 0230.5 | 46.71 | -6.02 | 2.5451 | 1.7354 | 1.8424 | -0.2668 | -0.4161 | 0.4334 | 0.0373 | 2.253 | 0230.5 |
| 0240.5 | 49.05 | -5.86 | 2.5494 | 1.6623 | 1.9153 | -0.2601 | -0.4338 | 0.4139 | 0.0400 | 2.391 | 0240.5 |
| 0250.5 | 51.37 | -5.69 | 2.5533 | 1.5862 | 1.9848 | -0.2530 | -0.4506 | 0.3937 | 0.0427 | 2.527 | 0250.5 |
| 0260.5 | 53.68 | -5.51 | 2.5569 | 1.5073 | 2.0507 | -0.2454 | -0.4666 | 0.3729 | 0.0453 | 2.661 | 0260.5 |
| 0270.5 | 55.99 | -5.32 | 2.5601 | 1.4258 | 2.1130 | -0.2374 | -0.4816 | 0.3515 | 0.0477 | 2.791 | 0270.5 |
| 0280.5 | 58.29 | -5.13 | 2.5629 | 1.3417 | 2.1716 | -0.2290 | -0.4958 | 0.3295 | 0.0501 | 2.913 | 0280.5 |
| 0290.5 | 60.59 | -4.92 | 2.5653 | 1.2552 | 2.2264 | -0.2202 | -0.5091 | 0.3071 | 0.0524 | 3.028 | 0290.5 |
| 0300.5 | 62.88 | -4.71 | 2.5673 | 1.1666 | 2.2773 | -0.2110 | -0.5214 | 0.2842 | 0.0546 | 3.134 | 0300.5 |
| 0310.5 | 65.16 | -4.50 | 2.5690 | 1.0759 | 2.3241 | -0.2014 | -0.5328 | 0.2608 | 0.0567 | 3.230 | 0310.5 |
| 0320.5 | 67.44 | -4.27 | 2.5702 | 0.9833 | 2.3670 | -0.1915 | -0.5432 | 0.2370 | 0.0587 | 3.316 | 0320.5 |
| 0330.5 | 69.72 | -4.04 | 2.5711 | 0.8890 | 2.4057 | -0.1812 | -0.5527 | 0.2129 | 0.0606 | 3.390 | 0330.5 |
| 0340.5 | 71.99 | -3.81 | 2.5715 | 0.7932 | 2.4402 | -0.1707 | -0.5612 | 0.1883 | 0.0624 | 3.453 | 0340.5 |
| 0350.5 | 74.27 | -3.56 | 2.5716 | 0.6960 | 2.4704 | -0.1598 | -0.5687 | 0.1635 | 0.0640 | 3.504 | 0350.5 |
| 0360.5 | 76.54 | -3.31 | 2.5712 | 0.5976 | 2.4964 | -0.1486 | -0.5753 | 0.1384 | 0.0656 | 3.542 | 0360.5 |
| 0370.5 | 78.81 | -3.06 | 2.5705 | 0.4981 | 2.5180 | -0.1372 | -0.5808 | 0.1130 | 0.0670 | 3.568 | 0370.5 |
| 0380.5 | 81.08 | -2.80 | 2.5694 | 0.3978 | 2.5353 | -0.1256 | -0.5854 | 0.0874 | 0.0684 | 3.581 | 0380.5 |
| 0390.5 | 83.36 | -2.54 | 2.5678 | 0.2968 | 2.5481 | -0.1137 | -0.5889 | 0.0616 | 0.0696 | 3.582 | 0390.5 |
| 0400.5 | 85.63 | -2.27 | 2.5659 | 0.1953 | 2.5564 | -0.1016 | -0.5914 | 0.0356 | 0.0707 | 3.570 | 0400.5 |
| 0410.5 | 87.91 | -2.00 | 2.5636 | 0.0934 | 2.5603 | -0.0894 | -0.5929 | 0.0095 | 0.0717 | 3.546 | 0410.5 |
| 0420.5 | 90.19 | -1.72 | 2.5609 | -0.0087 | 2.5597 | -0.0770 | -0.5933 | -0.0167 | 0.0725 | 3.509 | 0420.5 |
| 0430.5 | 92.48 | -1.44 | 2.5578 | -0.1107 | 2.5546 | -0.0644 | -0.5927 | -0.0429 | 0.0732 | 3.461 | 0430.5 |
| 0440.5 | 94.77 | -1.16 | 2.5543 | -0.2125 | 2.5449 | -0.0518 | -0.5910 | -0.0692 | 0.0738 | 3.400 | 0440.5 |
| 0450.5 | 97.07 | -0.88 | 2.5505 | -0.3140 | 2.5308 | -0.0391 | -0.5883 | -0.0954 | 0.0743 | 3.329 | 0450.5 |
| 0460.5 | 99.38 | -0.59 | 2.5463 | -0.4149 | 2.5121 | -0.0262 | -0.5845 | -0.1216 | 0.0746 | 3.246 | 0460.5 |
| 0470.5 | 101.69 | -0.30 | 2.5417 | -0.5150 | 2.4889 | -0.0134 | -0.5797 | -0.1478 | 0.0748 | 3.153 | 0470.5 |
| 0480.5 | 104.01 | -0.01 | 2.5368 | -0.6143 | 2.4613 | -0.0005 | -0.5737 | -0.1738 | 0.0749 | 3.050 | 0480.5 |
| 0490.5 | 106.34 | 0.28 | 2.5315 | -0.7124 | 2.4291 | 0.0124 | -0.5667 | -0.1996 | 0.0749 | 2.938 | 0490.5 |
| 0500.5 | 108.69 | 0.57 | 2.5258 | -0.8092 | 2.3926 | 0.0253 | -0.5586 | -0.2253 | 0.0747 | 2.818 | 0500.5 |
| 0510.5 | 111.04 | 0.87 | 2.5199 | -0.9045 | 2.3516 | 0.0381 | -0.5494 | -0.2507 | 0.0743 | 2.691 | 0510.5 |
| 0520.5 | 113.40 | 1.16 | 2.5136 | -0.9982 | 2.3063 | 0.0508 | -0.5392 | -0.2758 | 0.0738 | 2.559 | 0520.5 |
| 0530.5 | 115.78 | 1.45 | 2.5070 | -1.0899 | 2.2568 | 0.0635 | -0.5278 | -0.3007 | 0.0732 | 2.423 | 0530.5 |
| 0540.5 | 118.17 | 1.74 | 2.5001 | -1.1797 | 2.2029 | 0.0760 | -0.5154 | -0.3251 | 0.0725 | 2.284 | 0540.5 |
| 0550.5 | 120.57 | 2.03 | 2.4928 | -1.2672 | 2.1449 | 0.0884 | -0.5018 | -0.3491 | 0.0715 | 2.146 | 0550.5 |
| 0560.5 | 122.99 | 2.32 | 2.4853 | -1.3523 | 2.0828 | 0.1006 | -0.4872 | -0.3727 | 0.0705 | 2.010 | 0560.5 |
| 0570.5 | 125.43 | 2.61 | 2.4776 | -1.4348 | 2.0167 | 0.1126 | -0.4715 | -0.3958 | 0.0693 | 1.880 | 0570.5 |
| 0580.5 | 127.88 | 2.89 | 2.4695 | -1.5145 | 1.9467 | 0.1244 | -0.4548 | -0.4183 | 0.0679 | 1.760 | 0580.5 |
| 0590.5 | 130.35 | 3.17 | 2.4612 | -1.5912 | 1.8728 | 0.1360 | -0.4369 | -0.4403 | 0.0664 | 1.654 | 0590.5 |
| 0600.5 | 132.84 | 3.44 | 2.4527 | -1.6647 | 1.7952 | 0.1473 | -0.4180 | -0.4615 | 0.0648 | 1.565 | 0600.5 |
| 0610.5 | 135.35 | 3.71 | 2.4440 | -1.7349 | 1.7141 | 0.1583 | -0.3981 | -0.4821 | 0.0630 | 1.499 | 0610.5 |
| 0620.5 | 137.87 | 3.98 | 2.4350 | -1.8016 | 1.6294 | 0.1690 | -0.3772 | -0.5019 | 0.0611 | 1.458 | 0620.5 |
| 0630.5 | 140.42 | 4.24 | 2.4259 | -1.8647 | 1.5414 | 0.1793 | -0.3552 | -0.5209 | 0.0590 | 1.446 | 0630.5 |
| 0640.5 | 142.99 | 4.49 | 2.4166 | -1.9238 | 1.4502 | 0.1892 | -0.3322 | -0.5390 | 0.0568 | 1.461 | 0640.5 |
| 0650.5 | 145.58 | 4.74 | 2.4071 | -1.9789 | 1.3560 | 0.1988 | -0.3083 | -0.5563 | 0.0544 | 1.502 | 0650.5 |
| 0660.5 | 148.19 | 4.98 | 2.3976 | -2.0298 | 1.2589 | 0.2079 | -0.2834 | -0.5725 | 0.0518 | 1.565 | 0660.5 |
| 0670.5 | 150.83 | 5.21 | 2.3878 | -2.0764 | 1.1591 | 0.2166 | -0.2576 | -0.5877 | 0.0492 | 1.646 | 0670.5 |
| 0680.5 | 153.49 | 5.43 | 2.3780 | -2.1184 | 1.0568 | 0.2249 | -0.2310 | -0.6017 | 0.0464 | 1.741 | 0680.5 |
| 0690.5 | 156.17 | 5.64 | 2.3681 | -2.1558 | 0.9521 | 0.2326 | -0.2035 | -0.6147 | 0.0434 | 1.844 | 0690.5 |
| 0700.5 | 158.88 | 5.84 | 2.3582 | -2.1884 | 0.8454 | 0.2398 | -0.1751 | -0.6264 | 0.0404 | 1.953 | 0700.5 |
| 0710.5 | 161.61 | 6.02 | 2.3482 | -2.2160 | 0.7367 | 0.2465 | -0.1461 | -0.6368 | 0.0371 | 2.065 | 0710.5 |
| 0720.5 | 164.37 | 6.20 | 2.3382 | -2.2386 | 0.6263 | 0.2526 | -0.1163 | -0.6459 | 0.0338 | 2.177 | 0720.5 |
| 0730.5 | 167.15 | 6.36 | 2.3283 | -2.2560 | 0.5145 | 0.2581 | -0.0858 | -0.6537 | 0.0303 | 2.287 | 0730.5 |
| 0740.5 | 169.96 | 6.51 | 2.3183 | -2.2681 | 0.4015 | 0.2630 | -0.0548 | -0.6600 | 0.0268 | 2.395 | 0740.5 |
| 0750.5 | 172.80 | 6.65 | 2.3084 | -2.2748 | 0.2875 | 0.2673 | -0.0232 | -0.6647 | 0.0231 | 2.498 | 0750.5 |
| 0760.5 | 175.66 | 6.77 | 2.2986 | -2.2761 | 0.1729 | 0.2709 | 0.0088 | -0.6680 | 0.0193 | 2.595 | 0760.5 |
| 0770.5 | 178.54 | 6.87 | 2.2889 | -2.2718 | 0.0578 | 0.2739 | 0.0412 | -0.6696 | 0.0154 | 2.687 | 0770.5 |
| 0780.5 | 181.45 | 6.96 | 2.2794 | -2.2619 | -0.0574 | 0.2762 | 0.0740 | -0.6696 | 0.0114 | 2.772 | 0780.5 |
| 0790.5 | 184.39 | 7.03 | 2.2700 | -2.2463 | -0.1725 | 0.2779 | 0.1069 | -0.6679 | 0.0074 | 2.850 | 0790.5 |
| 0800.5 | 187.35 | 7.08 | 2.2608 | -2.2251 | -0.2871 | 0.2788 | 0.1400 | -0.6645 | 0.0033 | 2.921 | 0800.5 |
| 0810.5 | 190.34 | 7.12 | 2.2518 | -2.1981 | -0.4010 | 0.2790 | 0.1731 | -0.6594 | -0.0009 | 2.984 | 0810.5 |
| 0820.5 | 193.35 | 7.13 | 2.2430 | -2.1655 | -0.5139 | 0.2785 | 0.2062 | -0.6524 | -0.0051 | 3.038 | 0820.5 |
| 0830.5 | 196.38 | 7.13 | 2.2345 | -2.1272 | -0.6254 | 0.2772 | 0.2391 | -0.6437 | -0.0094 | 3.084 | 0830.5 |
| 0840.5 | 199.44 | 7.10 | 2.2263 | -2.0833 | -0.7352 | 0.2752 | 0.2718 | -0.6332 | -0.0137 | 3.122 | 0840.5 |
| 0850.5 | 202.52 | 7.06 | 2.2184 | -2.0337 | -0.8431 | 0.2725 | 0.3040 | -0.6208 | -0.0180 | 3.151 | 0850.5 |
| 0860.5 | 205.62 | 6.99 | 2.2108 | -1.9787 | -0.9487 | 0.2690 | 0.3358 | -0.6066 | -0.0223 | 3.171 | 0860.5 |
| 0870.5 | 208.74 | 6.90 | 2.2036 | -1.9182 | -1.0517 | 0.2648 | 0.3670 | -0.5906 | -0.0265 | 3.183 | 0870.5 |
| 0880.5 | 211.87 | 6.79 | 2.1968 | -1.8525 | -1.1518 | 0.2599 | 0.3975 | -0.5728 | -0.0308 | 3.185 | 0880.5 |
| 0890.5 | 215.03 | 6.67 | 2.1904 | -1.7815 | -1.2487 | 0.2543 | 0.4271 | -0.5532 | -0.0350 | 3.178 | 0890.5 |
| 0900.5 | 218.20 | 6.52 | 2.1844 | -1.7056 | -1.3421 | 0.2479 | 0.4557 | -0.5319 | -0.0391 | 3.162 | 0900.5 |
| 0910.5 | 221.38 | 6.35 | 2.1789 | -1.6248 | -1.4316 | 0.2408 | 0.4833 | -0.5089 | -0.0431 | 3.138 | 0910.5 |
| 0920.5 | 224.58 | 6.15 | 2.1738 | -1.5394 | -1.5171 | 0.2331 | 0.5098 | -0.4843 | -0.0471 | 3.104 | 0920.5 |
| 0930.5 | 227.79 | 5.94 | 2.1692 | -1.4495 | -1.5982 | 0.2246 | 0.5349 | -0.4581 | -0.0509 | 3.062 | 0930.5 |
| 0940.5 | 231.01 | 5.71 | 2.1652 | -1.3554 | -1.6746 | 0.2155 | 0.5586 | -0.4305 | -0.0547 | 3.011 | 0940.5 |
| 0950.5 | 234.24 | 5.46 | 2.1616 | -1.2574 | -1.7462 | 0.2058 | 0.5808 | -0.4014 | -0.0582 | 2.953 | 0950.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | X (AU) | Y (AU) | Z (AU) | VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | HELIOCENTRIC ECLIPTIC POSITION | | | CARTESIAN COORDINATES | | | HELIOCENTRIC ECLIPTIC VELOCITY | | | | |
| 244 | | | | | | | | | | | 244 |
| 0960.5 | 237.48 | 5.20 | 2.1586 | -1.1557 | -1.8126 | 0.1955 | 0.6014 | -0.3710 | -0.0617 | 2.886 | 0960.5 |
| 0970.5 | 240.72 | 4.91 | 2.1561 | -1.0506 | -1.8738 | 0.1846 | 0.6203 | -0.3394 | -0.0649 | 2.811 | 0970.5 |
| 0980.5 | 243.97 | 4.61 | 2.1542 | -0.9424 | -1.9294 | 0.1732 | 0.6374 | -0.3067 | -0.0680 | 2.730 | 0980.5 |
| 0990.5 | 247.21 | 4.30 | 2.1528 | -0.8314 | -1.9792 | 0.1612 | 0.6527 | -0.2731 | -0.0709 | 2.642 | 0990.5 |
| 1000.5 | 250.46 | 3.97 | 2.1520 | -0.7180 | -2.0233 | 0.1488 | 0.6661 | -0.2385 | -0.0736 | 2.549 | 1000.5 |
| 1010.5 | 253.71 | 3.62 | 2.1518 | -0.6024 | -2.0613 | 0.1359 | 0.6775 | -0.2033 | -0.0760 | 2.450 | 1010.5 |
| 1020.5 | 256.95 | 3.27 | 2.1521 | -0.4850 | -2.0932 | 0.1227 | 0.6868 | -0.1674 | -0.0782 | 2.346 | 1020.5 |
| 1030.5 | 260.19 | 2.90 | 2.1530 | -0.3662 | -2.1189 | 0.1090 | 0.6942 | -0.1311 | -0.0802 | 2.239 | 1030.5 |
| 1040.5 | 263.43 | 2.53 | 2.1545 | -0.2463 | -2.1383 | 0.0951 | 0.6995 | -0.0944 | -0.0820 | 2.129 | 1040.5 |
| 1050.5 | 266.66 | 2.15 | 2.1565 | -0.1257 | -2.1513 | 0.0808 | 0.7027 | -0.0576 | -0.0835 | 2.017 | 1050.5 |
| 1060.5 | 269.88 | 1.76 | 2.1591 | -0.0047 | -2.1581 | 0.0664 | 0.7038 | -0.0207 | -0.0848 | 1.904 | 1060.5 |
| 1070.5 | 273.09 | 1.37 | 2.1622 | 0.1164 | -2.1584 | 0.0517 | 0.7028 | 0.0162 | -0.0858 | 1.793 | 1070.5 |
| 1080.5 | 276.28 | 0.98 | 2.1658 | 0.2370 | -2.1525 | 0.0369 | 0.6998 | 0.0528 | -0.0865 | 1.683 | 1080.5 |
| 1090.5 | 279.47 | 0.58 | 2.1700 | 0.3570 | -2.1403 | 0.0219 | 0.6948 | 0.0890 | -0.0870 | 1.578 | 1090.5 |
| 1100.5 | 282.64 | 0.18 | 2.1746 | 0.4760 | -2.1219 | 0.0069 | 0.6878 | 0.1248 | -0.0873 | 1.479 | 1100.5 |
| 1110.5 | 285.80 | -0.21 | 2.1798 | 0.5935 | -2.0974 | -0.0081 | 0.6789 | 0.1600 | -0.0873 | 1.390 | 1110.5 |
| 1120.5 | 288.94 | -0.61 | 2.1854 | 0.7094 | -2.0669 | -0.0231 | 0.6681 | 0.1944 | -0.0870 | 1.313 | 1120.5 |
| 1130.5 | 292.07 | -0.99 | 2.1915 | 0.8233 | -2.0306 | -0.0380 | 0.6555 | 0.2281 | -0.0865 | 1.253 | 1130.5 |
| 1140.5 | 295.18 | -1.38 | 2.1979 | 0.9349 | -1.9885 | -0.0528 | 0.6412 | 0.2608 | -0.0858 | 1.212 | 1140.5 |
| 1150.5 | 298.27 | -1.75 | 2.2048 | 1.0438 | -1.9409 | -0.0675 | 0.6253 | 0.2925 | -0.0848 | 1.194 | 1150.5 |
| 1160.5 | 301.34 | -2.12 | 2.2121 | 1.1499 | -1.8879 | -0.0820 | 0.6078 | 0.3231 | -0.0836 | 1.200 | 1160.5 |
| 1170.5 | 304.40 | -2.49 | 2.2197 | 1.2528 | -1.8298 | -0.0963 | 0.5888 | 0.3525 | -0.0822 | 1.231 | 1170.5 |
| 1180.5 | 307.43 | -2.84 | 2.2277 | 1.3524 | -1.7668 | -0.1103 | 0.5684 | 0.3806 | -0.0806 | 1.285 | 1180.5 |
| 1190.5 | 310.45 | -3.18 | 2.2359 | 1.4483 | -1.6990 | -0.1240 | 0.5467 | 0.4074 | -0.0788 | 1.359 | 1190.5 |
| 1200.5 | 313.44 | -3.51 | 2.2445 | 1.5404 | -1.6267 | -0.1373 | 0.5238 | 0.4329 | -0.0768 | 1.451 | 1200.5 |
| 1210.5 | 316.41 | -3.83 | 2.2533 | 1.6285 | -1.5501 | -0.1504 | 0.4999 | 0.4569 | -0.0746 | 1.556 | 1210.5 |
| 1220.5 | 319.36 | -4.13 | 2.2623 | 1.7123 | -1.4695 | -0.1630 | 0.4749 | 0.4795 | -0.0722 | 1.671 | 1220.5 |
| 1230.5 | 322.29 | -4.42 | 2.2716 | 1.7918 | -1.3852 | -0.1752 | 0.4490 | 0.5006 | -0.0697 | 1.794 | 1230.5 |
| 1240.5 | 325.20 | -4.70 | 2.2810 | 1.8668 | -1.2974 | -0.1870 | 0.4223 | 0.5201 | -0.0671 | 1.922 | 1240.5 |
| 1250.5 | 328.09 | -4.97 | 2.2906 | 1.9371 | -1.2064 | -0.1983 | 0.3949 | 0.5382 | -0.0643 | 2.052 | 1250.5 |
| 1260.5 | 330.95 | -5.22 | 2.3003 | 2.0026 | -1.1123 | -0.2091 | 0.3669 | 0.5547 | -0.0614 | 2.184 | 1260.5 |
| 1270.5 | 333.79 | -5.45 | 2.3101 | 2.0633 | -1.0156 | -0.2194 | 0.3384 | 0.5696 | -0.0584 | 2.315 | 1270.5 |
| 1280.5 | 336.61 | -5.67 | 2.3200 | 2.1190 | -0.9165 | -0.2292 | 0.3094 | 0.5830 | -0.0553 | 2.444 | 1280.5 |
| 1290.5 | 339.41 | -5.87 | 2.3300 | 2.1697 | -0.8151 | -0.2384 | 0.2800 | 0.5949 | -0.0521 | 2.568 | 1290.5 |
| 1300.5 | 342.18 | -6.06 | 2.3400 | 2.2153 | -0.7119 | -0.2471 | 0.2504 | 0.6052 | -0.0488 | 2.689 | 1300.5 |
| 1310.5 | 344.94 | -6.24 | 2.3499 | 2.2558 | -0.6070 | -0.2552 | 0.2205 | 0.6140 | -0.0455 | 2.803 | 1310.5 |
| 1320.5 | 347.67 | -6.39 | 2.3599 | 2.2912 | -0.5007 | -0.2628 | 0.1906 | 0.6213 | -0.0421 | 2.910 | 1320.5 |
| 1330.5 | 350.38 | -6.53 | 2.3698 | 2.3214 | -0.3933 | -0.2697 | 0.1606 | 0.6271 | -0.0386 | 3.009 | 1330.5 |
| 1340.5 | 353.07 | -6.66 | 2.3797 | 2.3464 | -0.2851 | -0.2761 | 0.1306 | 0.6315 | -0.0351 | 3.099 | 1340.5 |
| 1350.5 | 355.74 | -6.77 | 2.3895 | 2.3663 | -0.1762 | -0.2818 | 0.1007 | 0.6344 | -0.0316 | 3.180 | 1350.5 |
| 1360.5 | 358.39 | -6.87 | 2.3992 | 2.3810 | -0.0669 | -0.2869 | 0.0709 | 0.6359 | -0.0280 | 3.251 | 1360.5 |
| 1370.5 | 1.02 | -6.95 | 2.4088 | 2.3907 | 0.0425 | -0.2914 | 0.0414 | 0.6361 | -0.0244 | 3.311 | 1370.5 |
| 1380.5 | 3.63 | -7.01 | 2.4182 | 2.3953 | 0.1519 | -0.2953 | 0.0121 | 0.6349 | -0.0208 | 3.360 | 1380.5 |
| 1390.5 | 6.22 | -7.07 | 2.4275 | 2.3949 | 0.2609 | -0.2986 | -0.0169 | 0.6324 | -0.0172 | 3.398 | 1390.5 |
| 1400.5 | 8.79 | -7.10 | 2.4366 | 2.3895 | 0.3694 | -0.3012 | -0.0455 | 0.6286 | -0.0136 | 3.425 | 1400.5 |
| 1410.5 | 11.34 | -7.12 | 2.4455 | 2.3793 | 0.4771 | -0.3033 | -0.0737 | 0.6236 | -0.0101 | 3.440 | 1410.5 |
| 1420.5 | 13.87 | -7.13 | 2.4542 | 2.3642 | 0.5838 | -0.3047 | -0.1014 | 0.6174 | -0.0065 | 3.443 | 1420.5 |
| 1430.5 | 16.39 | -7.13 | 2.4627 | 2.3444 | 0.6894 | -0.3055 | -0.1287 | 0.6100 | -0.0030 | 3.434 | 1430.5 |
| 1440.5 | 18.89 | -7.11 | 2.4709 | 2.3199 | 0.7937 | -0.3057 | -0.1554 | 0.6015 | 0.0005 | 3.414 | 1440.5 |
| 1450.5 | 21.37 | -7.08 | 2.4789 | 2.2909 | 0.8963 | -0.3053 | -0.1816 | 0.5919 | 0.0040 | 3.383 | 1450.5 |
| 1460.5 | 23.83 | -7.03 | 2.4866 | 2.2575 | 0.9973 | -0.3044 | -0.2072 | 0.5813 | 0.0074 | 3.340 | 1460.5 |
| 1470.5 | 26.28 | -6.97 | 2.4941 | 2.2197 | 1.0963 | -0.3028 | -0.2321 | 0.5696 | 0.0108 | 3.287 | 1470.5 |
| 1480.5 | 28.72 | -6.90 | 2.5013 | 2.1777 | 1.1932 | -0.3006 | -0.2564 | 0.5570 | 0.0141 | 3.223 | 1480.5 |
| 1490.5 | 31.14 | -6.82 | 2.5081 | 2.1315 | 1.2878 | -0.2979 | -0.2800 | 0.5434 | 0.0174 | 3.149 | 1490.5 |
| 1500.5 | 33.55 | -6.73 | 2.5147 | 2.0814 | 1.3801 | -0.2947 | -0.3028 | 0.5289 | 0.0206 | 3.065 | 1500.5 |
| 1510.5 | 35.94 | -6.62 | 2.5209 | 2.0274 | 1.4698 | -0.2908 | -0.3250 | 0.5136 | 0.0238 | 2.972 | 1510.5 |
| 1520.5 | 38.32 | -6.51 | 2.5268 | 1.9696 | 1.5567 | -0.2865 | -0.3464 | 0.4974 | 0.0269 | 2.872 | 1520.5 |
| 1530.5 | 40.69 | -6.38 | 2.5324 | 1.9082 | 1.6408 | -0.2816 | -0.3670 | 0.4804 | 0.0299 | 2.763 | 1530.5 |
| 1540.5 | 43.05 | -6.25 | 2.5376 | 1.8434 | 1.7220 | -0.2762 | -0.3868 | 0.4626 | 0.0328 | 2.649 | 1540.5 |
| 1550.5 | 45.40 | -6.10 | 2.5425 | 1.7752 | 1.8000 | -0.2703 | -0.4058 | 0.4441 | 0.0357 | 2.529 | 1550.5 |
| 1560.5 | 47.73 | -5.95 | 2.5470 | 1.7038 | 1.8747 | -0.2639 | -0.4239 | 0.4250 | 0.0385 | 2.406 | 1560.5 |
| 1570.5 | 50.06 | -5.78 | 2.5512 | 1.6294 | 1.9461 | -0.2571 | -0.4413 | 0.4051 | 0.0412 | 2.281 | 1570.5 |
| 1580.5 | 52.38 | -5.61 | 2.5549 | 1.5521 | 2.0141 | -0.2497 | -0.4577 | 0.3846 | 0.0438 | 2.156 | 1580.5 |
| 1590.5 | 54.69 | -5.43 | 2.5583 | 1.4720 | 2.0784 | -0.2420 | -0.4733 | 0.3636 | 0.0464 | 2.035 | 1590.5 |
| 1600.5 | 57.00 | -5.24 | 2.5614 | 1.3893 | 2.1391 | -0.2338 | -0.4879 | 0.3419 | 0.0488 | 1.920 | 1600.5 |
| 1610.5 | 59.30 | -5.04 | 2.5640 | 1.3041 | 2.1961 | -0.2252 | -0.5017 | 0.3198 | 0.0511 | 1.815 | 1610.5 |
| 1620.5 | 61.59 | -4.83 | 2.5663 | 1.2167 | 2.2491 | -0.2162 | -0.5146 | 0.2971 | 0.0534 | 1.726 | 1620.5 |
| 1630.5 | 63.88 | -4.62 | 2.5681 | 1.1271 | 2.2983 | -0.2068 | -0.5265 | 0.2740 | 0.0555 | 1.655 | 1630.5 |
| 1640.5 | 66.16 | -4.40 | 2.5696 | 1.0356 | 2.3434 | -0.1971 | -0.5375 | 0.2505 | 0.0576 | 1.609 | 1640.5 |
| 1650.5 | 68.44 | -4.17 | 2.5706 | 0.9423 | 2.3844 | -0.1870 | -0.5475 | 0.2265 | 0.0595 | 1.589 | 1650.5 |
| 1660.5 | 70.71 | -3.94 | 2.5713 | 0.8473 | 2.4213 | -0.1766 | -0.5565 | 0.2022 | 0.0614 | 1.599 | 1660.5 |
| 1670.5 | 72.99 | -3.70 | 2.5716 | 0.7508 | 2.4539 | -0.1659 | -0.5646 | 0.1775 | 0.0631 | 1.637 | 1670.5 |
| 1680.5 | 75.26 | -3.45 | 2.5715 | 0.6531 | 2.4823 | -0.1549 | -0.5717 | 0.1525 | 0.0647 | 1.701 | 1680.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | HELIOCENTRIC ECLIPTIC POSITION RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 1690.5 | 77.53 | -3.20 | 2.5710 | 0.5542 | 2.5064 | -0.1437 | -0.5778 | 0.1273 | 0.0662 | 1.787 | 1690.5 |
| 1700.5 | 79.80 | -2.95 | 2.5700 | 0.4543 | 2.5261 | -0.1321 | -0.5829 | 0.1018 | 0.0676 | 1.890 | 1700.5 |
| 1710.5 | 82.08 | -2.69 | 2.5687 | 0.3537 | 2.5414 | -0.1204 | -0.5870 | 0.0761 | 0.0689 | 2.007 | 1710.5 |
| 1720.5 | 84.35 | -2.42 | 2.5670 | 0.2524 | 2.5523 | -0.1084 | -0.5901 | 0.0502 | 0.0701 | 2.132 | 1720.5 |
| 1730.5 | 86.63 | -2.15 | 2.5649 | 0.1507 | 2.5587 | -0.0963 | -0.5922 | 0.0242 | 0.0711 | 2.262 | 1730.5 |
| 1740.5 | 88.91 | -1.88 | 2.5624 | 0.0487 | 2.5606 | -0.0840 | -0.5932 | -0.0019 | 0.0720 | 2.394 | 1740.5 |
| 1750.5 | 91.19 | -1.60 | 2.5596 | -0.0533 | 2.5580 | -0.0715 | -0.5932 | -0.0281 | 0.0728 | 2.525 | 1750.5 |
| 1760.5 | 93.48 | -1.32 | 2.5563 | -0.1553 | 2.5509 | -0.0589 | -0.5921 | -0.0544 | 0.0735 | 2.652 | 1760.5 |
| 1770.5 | 95.78 | -1.04 | 2.5527 | -0.2570 | 2.5393 | -0.0462 | -0.5900 | -0.0807 | 0.0741 | 2.774 | 1770.5 |
| 1780.5 | 98.08 | -0.75 | 2.5487 | -0.3582 | 2.5232 | -0.0335 | -0.5868 | -0.1069 | 0.0745 | 2.890 | 1780.5 |
| 1790.5 | 100.39 | -0.46 | 2.5443 | -0.4588 | 2.5025 | -0.0206 | -0.5825 | -0.1331 | 0.0747 | 2.998 | 1790.5 |
| 1800.5 | 102.71 | -0.17 | 2.5396 | -0.5586 | 2.4774 | -0.0077 | -0.5772 | -0.1592 | 0.0749 | 3.096 | 1800.5 |
| 1810.5 | 105.03 | 0.12 | 2.5345 | -0.6573 | 2.4478 | 0.0051 | -0.5708 | -0.1851 | 0.0749 | 3.185 | 1810.5 |
| 1820.5 | 107.37 | 0.41 | 2.5291 | -0.7549 | 2.4137 | 0.0180 | -0.5633 | -0.2109 | 0.0748 | 3.264 | 1820.5 |
| 1830.5 | 109.71 | 0.70 | 2.5233 | -0.8511 | 2.3752 | 0.0309 | -0.5547 | -0.2364 | 0.0745 | 3.332 | 1830.5 |
| 1840.5 | 112.07 | 0.99 | 2.5172 | -0.9457 | 2.3324 | 0.0437 | -0.5451 | -0.2617 | 0.0741 | 3.389 | 1840.5 |
| 1850.5 | 114.44 | 1.29 | 2.5107 | -1.0385 | 2.2852 | 0.0564 | -0.5343 | -0.2867 | 0.0736 | 3.434 | 1850.5 |
| 1860.5 | 116.82 | 1.58 | 2.5040 | -1.1295 | 2.2337 | 0.0690 | -0.5225 | -0.3114 | 0.0729 | 3.468 | 1860.5 |
| 1870.5 | 119.22 | 1.87 | 2.4969 | -1.2183 | 2.1781 | 0.0814 | -0.5096 | -0.3357 | 0.0721 | 3.489 | 1870.5 |
| 1880.5 | 121.63 | 2.16 | 2.4896 | -1.3047 | 2.1183 | 0.0938 | -0.4956 | -0.3595 | 0.0711 | 3.499 | 1880.5 |
| 1890.5 | 124.06 | 2.45 | 2.4820 | -1.3887 | 2.0544 | 0.1059 | -0.4805 | -0.3829 | 0.0700 | 3.497 | 1890.5 |
| 1900.5 | 126.50 | 2.73 | 2.4741 | -1.4700 | 1.9865 | 0.1178 | -0.4643 | -0.4057 | 0.0687 | 3.483 | 1900.5 |
| 1910.5 | 128.96 | 3.01 | 2.4659 | -1.5484 | 1.9148 | 0.1295 | -0.4471 | -0.4280 | 0.0673 | 3.457 | 1910.5 |
| 1920.5 | 131.44 | 3.29 | 2.4575 | -1.6238 | 1.8393 | 0.1410 | -0.4288 | -0.4497 | 0.0657 | 3.420 | 1920.5 |
| 1930.5 | 133.93 | 3.56 | 2.4489 | -1.6959 | 1.7602 | 0.1521 | -0.4095 | -0.4706 | 0.0640 | 3.371 | 1930.5 |
| 1940.5 | 136.45 | 3.83 | 2.4401 | -1.7646 | 1.6774 | 0.1630 | -0.3891 | -0.4909 | 0.0622 | 3.311 | 1940.5 |
| 1950.5 | 138.99 | 4.09 | 2.4311 | -1.8297 | 1.5913 | 0.1735 | -0.3677 | -0.5103 | 0.0602 | 3.241 | 1950.5 |
| 1960.5 | 141.54 | 4.35 | 2.4219 | -1.8910 | 1.5019 | 0.1837 | -0.3453 | -0.5290 | 0.0580 | 3.160 | 1960.5 |
| 1970.5 | 144.12 | 4.60 | 2.4125 | -1.9484 | 1.4094 | 0.1935 | -0.3219 | -0.5467 | 0.0557 | 3.070 | 1970.5 |
| 1980.5 | 146.72 | 4.84 | 2.4030 | -2.0017 | 1.3139 | 0.2029 | -0.2975 | -0.5635 | 0.0533 | 2.970 | 1980.5 |
| 1990.5 | 149.34 | 5.08 | 2.3933 | -2.0507 | 1.2156 | 0.2118 | -0.2723 | -0.5792 | 0.0507 | 2.862 | 1990.5 |
| 2000.5 | 151.99 | 5.30 | 2.3836 | -2.0953 | 1.1146 | 0.2203 | -0.2461 | -0.5940 | 0.0480 | 2.747 | 2000.5 |
| 2010.5 | 154.66 | 5.52 | 2.3737 | -2.1354 | 1.0113 | 0.2283 | -0.2190 | -0.6075 | 0.0451 | 2.624 | 2010.5 |
| 2020.5 | 157.35 | 5.73 | 2.3638 | -2.1706 | 0.9057 | 0.2358 | -0.1912 | -0.6200 | 0.0421 | 2.497 | 2020.5 |
| 2030.5 | 160.07 | 5.92 | 2.3538 | -2.2011 | 0.7980 | 0.2428 | -0.1625 | -0.6311 | 0.0390 | 2.365 | 2030.5 |
| 2040.5 | 162.81 | 6.10 | 2.3439 | -2.2265 | 0.6886 | 0.2492 | -0.1331 | -0.6410 | 0.0357 | 2.231 | 2040.5 |
| 2050.5 | 165.58 | 6.27 | 2.3339 | -2.2468 | 0.5776 | 0.2551 | -0.1030 | -0.6495 | 0.0323 | 2.096 | 2050.5 |
| 2060.5 | 168.38 | 6.43 | 2.3239 | -2.2619 | 0.4652 | 0.2603 | -0.0723 | -0.6566 | 0.0288 | 1.961 | 2060.5 |
| 2070.5 | 171.20 | 6.57 | 2.3140 | -2.2717 | 0.3518 | 0.2650 | -0.0410 | -0.6622 | 0.0252 | 1.830 | 2070.5 |
| 2080.5 | 174.04 | 6.70 | 2.3041 | -2.2760 | 0.2375 | 0.2690 | -0.0093 | -0.6664 | 0.0214 | 1.705 | 2080.5 |
| 2090.5 | 176.92 | 6.82 | 2.2944 | -2.2749 | 0.1226 | 0.2723 | 0.0229 | -0.6689 | 0.0176 | 1.589 | 2090.5 |
| 2100.5 | 179.81 | 6.91 | 2.2847 | -2.2681 | 0.0074 | 0.2750 | 0.0555 | -0.6698 | 0.0137 | 1.485 | 2100.5 |
| 2110.5 | 182.74 | 6.99 | 2.2753 | -2.2558 | -0.1078 | 0.2770 | 0.0884 | -0.6691 | 0.0097 | 1.397 | 2110.5 |
| 2120.5 | 185.68 | 7.06 | 2.2659 | -2.2377 | -0.2227 | 0.2783 | 0.1214 | -0.6667 | 0.0056 | 1.329 | 2120.5 |
| 2130.5 | 188.66 | 7.10 | 2.2568 | -2.2140 | -0.3371 | 0.2790 | 0.1545 | -0.6625 | 0.0015 | 1.283 | 2130.5 |
| 2140.5 | 191.65 | 7.13 | 2.2479 | -2.1846 | -0.4505 | 0.2788 | 0.1876 | -0.6566 | -0.0027 | 1.262 | 2140.5 |
| 2150.5 | 194.67 | 7.13 | 2.2393 | -2.1495 | -0.5628 | 0.2780 | 0.2206 | -0.6488 | -0.0070 | 1.266 | 2150.5 |
| 2160.5 | 197.72 | 7.12 | 2.2309 | -2.1087 | -0.6737 | 0.2764 | 0.2534 | -0.6393 | -0.0113 | 1.295 | 2160.5 |
| 2170.5 | 200.78 | 7.08 | 2.2228 | -2.0623 | -0.7827 | 0.2741 | 0.2859 | -0.6280 | -0.0156 | 1.344 | 2170.5 |
| 2180.5 | 203.87 | 7.03 | 2.2150 | -2.0103 | -0.8896 | 0.2711 | 0.3180 | -0.6148 | -0.0198 | 1.411 | 2180.5 |
| 2190.5 | 206.98 | 6.95 | 2.2076 | -1.9529 | -0.9941 | 0.2673 | 0.3495 | -0.5998 | -0.0241 | 1.492 | 2190.5 |
| 2200.5 | 210.11 | 6.86 | 2.2006 | -1.8901 | -1.0959 | 0.2628 | 0.3804 | -0.5830 | -0.0284 | 1.584 | 2200.5 |
| 2210.5 | 213.25 | 6.74 | 2.1939 | -1.8221 | -1.1946 | 0.2575 | 0.4105 | -0.5644 | -0.0326 | 1.682 | 2210.5 |
| 2220.5 | 216.41 | 6.60 | 2.1877 | -1.7489 | -1.2900 | 0.2516 | 0.4397 | -0.5441 | -0.0368 | 1.786 | 2220.5 |
| 2230.5 | 219.59 | 6.44 | 2.1819 | -1.6708 | -1.3817 | 0.2449 | 0.4680 | -0.5221 | -0.0409 | 1.892 | 2230.5 |
| 2240.5 | 222.78 | 6.26 | 2.1766 | -1.5880 | -1.4695 | 0.2375 | 0.4950 | -0.4984 | -0.0449 | 1.998 | 2240.5 |
| 2250.5 | 225.99 | 6.06 | 2.1718 | -1.5006 | -1.5531 | 0.2294 | 0.5209 | -0.4731 | -0.0488 | 2.104 | 2250.5 |
| 2260.5 | 229.20 | 5.85 | 2.1674 | -1.4089 | -1.6322 | 0.2207 | 0.5454 | -0.4462 | -0.0526 | 2.209 | 2260.5 |
| 2270.5 | 232.42 | 5.61 | 2.1636 | -1.3130 | -1.7065 | 0.2114 | 0.5685 | -0.4179 | -0.0562 | 2.311 | 2270.5 |
| 2280.5 | 235.66 | 5.35 | 2.1602 | -1.2134 | -1.7759 | 0.2014 | 0.5900 | -0.3883 | -0.0598 | 2.410 | 2280.5 |
| 2290.5 | 238.90 | 5.07 | 2.1574 | -1.1101 | -1.8400 | 0.1908 | 0.6099 | -0.3574 | -0.0631 | 2.505 | 2290.5 |
| 2300.5 | 242.14 | 4.78 | 2.1552 | -1.0036 | -1.8988 | 0.1797 | 0.6280 | -0.3253 | -0.0663 | 2.595 | 2300.5 |
| 2310.5 | 245.39 | 4.47 | 2.1535 | -0.8942 | -1.9519 | 0.1680 | 0.6443 | -0.2921 | -0.0693 | 2.681 | 2310.5 |
| 2320.5 | 248.64 | 4.15 | 2.1524 | -0.7821 | -1.9992 | 0.1559 | 0.6588 | -0.2581 | -0.0721 | 2.760 | 2320.5 |
| 2330.5 | 251.88 | 3.82 | 2.1519 | -0.6676 | -2.0406 | 0.1432 | 0.6713 | -0.2232 | -0.0747 | 2.834 | 2330.5 |
| 2340.5 | 255.13 | 3.47 | 2.1519 | -0.5512 | -2.0760 | 0.1302 | 0.6818 | -0.1876 | -0.0770 | 2.901 | 2340.5 |
| 2350.5 | 258.37 | 3.11 | 2.1525 | -0.4332 | -2.1052 | 0.1167 | 0.6903 | -0.1516 | -0.0791 | 2.961 | 2350.5 |
| 2360.5 | 261.61 | 2.74 | 2.1536 | -0.3138 | -2.1281 | 0.1030 | 0.6968 | -0.1151 | -0.0810 | 3.013 | 2360.5 |
| 2370.5 | 264.84 | 2.36 | 2.1553 | -0.1936 | -2.1448 | 0.0889 | 0.7011 | -0.0783 | -0.0827 | 3.057 | 2370.5 |
| 2380.5 | 268.07 | 1.98 | 2.1576 | -0.0727 | -2.1551 | 0.0745 | 0.7034 | -0.0414 | -0.0841 | 3.094 | 2380.5 |
| 2390.5 | 271.28 | 1.59 | 2.1604 | 0.0483 | -2.1590 | 0.0600 | 0.7036 | -0.0045 | -0.0852 | 3.122 | 2390.5 |
| 2400.5 | 274.49 | 1.20 | 2.1637 | 0.1692 | -2.1566 | 0.0452 | 0.7018 | 0.0322 | -0.0861 | 3.141 | 2400.5 |
| 2410.5 | 277.68 | 0.80 | 2.1676 | 0.2896 | -2.1479 | 0.0303 | 0.6979 | 0.0687 | -0.0868 | 3.151 | 2410.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 2420.5 | 280.86 | 0.41 | 2.1720 | 0.4092 | -2.1330 | 0.0154 | 0.6920 | 0.1047 | -0.0872 | 3.152 | 2420.5 |
| 2430.5 | 284.03 | 0.01 | 2.1768 | 0.5276 | -2.1119 | 0.0004 | 0.6842 | 0.1403 | -0.0873 | 3.144 | 2430.5 |
| 2440.5 | 287.18 | -0.38 | 2.1822 | 0.6445 | -2.0848 | -0.0147 | 0.6744 | 0.1751 | -0.0872 | 3.126 | 2440.5 |
| 2450.5 | 290.31 | -0.78 | 2.1880 | 0.7595 | -2.0517 | -0.0296 | 0.6628 | 0.2093 | -0.0868 | 3.100 | 2450.5 |
| 2460.5 | 293.43 | -1.16 | 2.1942 | 0.8724 | -2.0129 | -0.0445 | 0.6495 | 0.2425 | -0.0862 | 3.064 | 2460.5 |
| 2470.5 | 296.53 | -1.54 | 2.2009 | 0.9829 | -1.9683 | -0.0593 | 0.6345 | 0.2748 | -0.0854 | 3.020 | 2470.5 |
| 2480.5 | 299.62 | -1.92 | 2.2080 | 1.0906 | -1.9184 | -0.0739 | 0.6178 | 0.3060 | -0.0843 | 2.967 | 2480.5 |
| 2490.5 | 302.68 | -2.28 | 2.2154 | 1.1953 | -1.8631 | -0.0883 | 0.5996 | 0.3361 | -0.0830 | 2.906 | 2490.5 |
| 2500.5 | 305.73 | -2.64 | 2.2232 | 1.2968 | -1.8028 | -0.1024 | 0.5800 | 0.3649 | -0.0815 | 2.837 | 2500.5 |
| 2510.5 | 308.75 | -2.99 | 2.2313 | 1.3948 | -1.7377 | -0.1163 | 0.5590 | 0.3925 | -0.0798 | 2.761 | 2510.5 |
| 2520.5 | 311.76 | -3.32 | 2.2396 | 1.4891 | -1.6679 | -0.1299 | 0.5368 | 0.4187 | -0.0779 | 2.677 | 2520.5 |
| 2530.5 | 314.74 | -3.65 | 2.2483 | 1.5794 | -1.5937 | -0.1431 | 0.5135 | 0.4436 | -0.0758 | 2.588 | 2530.5 |
| 2540.5 | 317.71 | -3.96 | 2.2572 | 1.6657 | -1.5153 | -0.1559 | 0.4891 | 0.4670 | -0.0736 | 2.493 | 2540.5 |
| 2550.5 | 320.65 | -4.26 | 2.2664 | 1.7476 | -1.4331 | -0.1684 | 0.4637 | 0.4889 | -0.0712 | 2.393 | 2550.5 |
| 2560.5 | 323.57 | -4.55 | 2.2757 | 1.8252 | -1.3472 | -0.1804 | 0.4374 | 0.5093 | -0.0686 | 2.289 | 2560.5 |
| 2570.5 | 326.47 | -4.82 | 2.2852 | 1.8981 | -1.2580 | -0.1920 | 0.4104 | 0.5282 | -0.0659 | 2.182 | 2570.5 |
| 2580.5 | 329.34 | -5.08 | 2.2948 | 1.9663 | -1.1656 | -0.2031 | 0.3827 | 0.5456 | -0.0631 | 2.073 | 2580.5 |
| 2590.5 | 332.20 | -5.32 | 2.3046 | 2.0297 | -1.0704 | -0.2137 | 0.3545 | 0.5614 | -0.0601 | 1.964 | 2590.5 |
| 2600.5 | 335.03 | -5.55 | 2.3144 | 2.0882 | -0.9725 | -0.2238 | 0.3257 | 0.5757 | -0.0571 | 1.857 | 2600.5 |
| 2610.5 | 337.84 | -5.76 | 2.3244 | 2.1418 | -0.8724 | -0.2333 | 0.2966 | 0.5884 | -0.0539 | 1.754 | 2610.5 |
| 2620.5 | 340.63 | -5.96 | 2.3343 | 2.1903 | -0.7702 | -0.2423 | 0.2671 | 0.5996 | -0.0507 | 1.657 | 2620.5 |
| 2630.5 | 343.39 | -6.14 | 2.3443 | 2.2336 | -0.6662 | -0.2507 | 0.2373 | 0.6092 | -0.0474 | 1.570 | 2630.5 |
| 2640.5 | 346.14 | -6.31 | 2.3543 | 2.2719 | -0.5607 | -0.2586 | 0.2074 | 0.6174 | -0.0440 | 1.496 | 2640.5 |
| 2650.5 | 348.86 | -6.46 | 2.3643 | 2.3050 | -0.4539 | -0.2659 | 0.1775 | 0.6240 | -0.0406 | 1.439 | 2650.5 |
| 2660.5 | 351.56 | -6.59 | 2.3742 | 2.3329 | -0.3461 | -0.2726 | 0.1475 | 0.6292 | -0.0371 | 1.404 | 2660.5 |
| 2670.5 | 354.24 | -6.71 | 2.3840 | 2.3557 | -0.2375 | -0.2786 | 0.1175 | 0.6329 | -0.0336 | 1.393 | 2670.5 |
| 2680.5 | 356.90 | -6.82 | 2.3938 | 2.3734 | -0.1284 | -0.2841 | 0.0877 | 0.6352 | -0.0300 | 1.407 | 2680.5 |
| 2690.5 | 359.54 | -6.91 | 2.4034 | 2.3859 | -0.0190 | -0.2890 | 0.0580 | 0.6361 | -0.0264 | 1.448 | 2690.5 |
| 2700.5 | 2.16 | -6.98 | 2.4129 | 2.3933 | 0.0904 | -0.2932 | 0.0286 | 0.6357 | -0.0228 | 1.512 | 2700.5 |
| 2710.5 | 4.76 | -7.04 | 2.4223 | 2.3957 | 0.1996 | -0.2968 | -0.0006 | 0.6339 | -0.0193 | 1.598 | 2710.5 |
| 2720.5 | 7.34 | -7.08 | 2.4315 | 2.3931 | 0.3084 | -0.2998 | -0.0294 | 0.6309 | -0.0157 | 1.701 | 2720.5 |
| 2730.5 | 9.91 | -7.11 | 2.4405 | 2.3856 | 0.4166 | -0.3022 | -0.0579 | 0.6266 | -0.0121 | 1.817 | 2730.5 |
| 2740.5 | 12.45 | -7.13 | 2.4493 | 2.3733 | 0.5239 | -0.3040 | -0.0859 | 0.6210 | -0.0085 | 1.944 | 2740.5 |
| 2750.5 | 14.97 | -7.13 | 2.4579 | 2.3561 | 0.6302 | -0.3051 | -0.1134 | 0.6143 | -0.0050 | 2.077 | 2750.5 |
| 2760.5 | 17.48 | -7.12 | 2.4663 | 2.3343 | 0.7352 | -0.3057 | -0.1405 | 0.6064 | -0.0014 | 2.214 | 2760.5 |
| 2770.5 | 19.97 | -7.09 | 2.4745 | 2.3078 | 0.8388 | -0.3056 | -0.1669 | 0.5975 | 0.0020 | 2.352 | 2770.5 |
| 2780.5 | 22.45 | -7.06 | 2.4823 | 2.2768 | 0.9407 | -0.3050 | -0.1928 | 0.5874 | 0.0055 | 2.490 | 2780.5 |
| 2790.5 | 24.91 | -7.01 | 2.4899 | 2.2415 | 1.0408 | -0.3037 | -0.2181 | 0.5763 | 0.0089 | 2.624 | 2790.5 |
| 2800.5 | 27.35 | -6.94 | 2.4973 | 2.2018 | 1.1389 | -0.3019 | -0.2428 | 0.5642 | 0.0123 | 2.753 | 2800.5 |
| 2810.5 | 29.78 | -6.87 | 2.5043 | 2.1580 | 1.2349 | -0.2995 | -0.2668 | 0.5512 | 0.0156 | 2.876 | 2810.5 |
| 2820.5 | 32.19 | -6.78 | 2.5110 | 2.1101 | 1.3285 | -0.2966 | -0.2901 | 0.5372 | 0.0188 | 2.992 | 2820.5 |
| 2830.5 | 34.60 | -6.68 | 2.5175 | 2.0582 | 1.4197 | -0.2931 | -0.3126 | 0.5223 | 0.0220 | 3.099 | 2830.5 |
| 2840.5 | 36.98 | -6.58 | 2.5236 | 2.0026 | 1.5082 | -0.2890 | -0.3344 | 0.5066 | 0.0251 | 3.196 | 2840.5 |
| 2850.5 | 39.36 | -6.46 | 2.5293 | 1.9432 | 1.5939 | -0.2844 | -0.3555 | 0.4900 | 0.0282 | 3.284 | 2850.5 |
| 2860.5 | 41.72 | -6.33 | 2.5347 | 1.8803 | 1.6767 | -0.2793 | -0.3757 | 0.4727 | 0.0312 | 3.360 | 2860.5 |
| 2870.5 | 44.08 | -6.19 | 2.5398 | 1.8140 | 1.7565 | -0.2737 | -0.3952 | 0.4546 | 0.0341 | 3.425 | 2870.5 |
| 2880.5 | 46.42 | -6.04 | 2.5445 | 1.7444 | 1.8331 | -0.2676 | -0.4138 | 0.4358 | 0.0369 | 3.478 | 2880.5 |
| 2890.5 | 48.75 | -5.88 | 2.5489 | 1.6716 | 1.9064 | -0.2610 | -0.4316 | 0.4164 | 0.0397 | 3.518 | 2890.5 |
| 2900.5 | 51.08 | -5.71 | 2.5529 | 1.5959 | 1.9763 | -0.2539 | -0.4486 | 0.3962 | 0.0424 | 3.547 | 2900.5 |
| 2910.5 | 53.39 | -5.53 | 2.5565 | 1.5173 | 2.0427 | -0.2464 | -0.4646 | 0.3755 | 0.0449 | 3.563 | 2910.5 |
| 2920.5 | 55.70 | -5.35 | 2.5597 | 1.4361 | 2.1054 | -0.2385 | -0.4798 | 0.3542 | 0.0474 | 3.566 | 2920.5 |
| 2930.5 | 58.00 | -5.15 | 2.5626 | 1.3523 | 2.1645 | -0.2301 | -0.4941 | 0.3323 | 0.0498 | 3.557 | 2930.5 |
| 2940.5 | 60.30 | -4.95 | 2.5650 | 1.2661 | 2.2198 | -0.2213 | -0.5074 | 0.3099 | 0.0521 | 3.536 | 2940.5 |
| 2950.5 | 62.59 | -4.74 | 2.5671 | 1.1778 | 2.2711 | -0.2122 | -0.5199 | 0.2871 | 0.0543 | 3.502 | 2950.5 |
| 2960.5 | 64.87 | -4.52 | 2.5688 | 1.0873 | 2.3185 | -0.2026 | -0.5314 | 0.2638 | 0.0564 | 3.456 | 2960.5 |
| 2970.5 | 67.16 | -4.30 | 2.5701 | 0.9950 | 2.3618 | -0.1927 | -0.5420 | 0.2400 | 0.0585 | 3.399 | 2970.5 |
| 2980.5 | 69.43 | -4.07 | 2.5710 | 0.9009 | 2.4010 | -0.1825 | -0.5516 | 0.2159 | 0.0604 | 3.330 | 2980.5 |
| 2990.5 | 71.71 | -3.83 | 2.5715 | 0.8053 | 2.4361 | -0.1720 | -0.5602 | 0.1914 | 0.0621 | 3.251 | 2990.5 |
| 3000.5 | 73.98 | -3.59 | 2.5716 | 0.7082 | 2.4669 | -0.1612 | -0.5678 | 0.1666 | 0.0638 | 3.161 | 3000.5 |
| 3010.5 | 76.25 | -3.35 | 2.5713 | 0.6100 | 2.4934 | -0.1500 | -0.5745 | 0.1415 | 0.0654 | 3.061 | 3010.5 |
| 3020.5 | 78.53 | -3.09 | 2.5706 | 0.5106 | 2.5156 | -0.1387 | -0.5802 | 0.1162 | 0.0669 | 2.953 | 3020.5 |
| 3030.5 | 80.80 | -2.83 | 2.5695 | 0.4104 | 2.5334 | -0.1270 | -0.5849 | 0.0906 | 0.0682 | 2.836 | 3030.5 |
| 3040.5 | 83.07 | -2.57 | 2.5680 | 0.3095 | 2.5467 | -0.1152 | -0.5885 | 0.0648 | 0.0694 | 2.712 | 3040.5 |
| 3050.5 | 85.35 | -2.30 | 2.5662 | 0.2080 | 2.5556 | -0.1031 | -0.5911 | 0.0389 | 0.0706 | 2.583 | 3050.5 |
| 3060.5 | 87.63 | -2.03 | 2.5639 | 0.1061 | 2.5601 | -0.0909 | -0.5927 | 0.0128 | 0.0715 | 2.450 | 3060.5 |
| 3070.5 | 89.91 | -1.76 | 2.5612 | 0.0041 | 2.5600 | -0.0785 | -0.5933 | -0.0134 | 0.0724 | 2.315 | 3070.5 |
| 3080.5 | 92.20 | -1.48 | 2.5582 | -0.0980 | 2.5555 | -0.0660 | -0.5928 | -0.0396 | 0.0732 | 2.180 | 3080.5 |
| 3090.5 | 94.49 | -1.20 | 2.5548 | -0.1998 | 2.5464 | -0.0534 | -0.5913 | -0.0659 | 0.0738 | 2.049 | 3090.5 |
| 3100.5 | 96.78 | -0.91 | 2.5510 | -0.3013 | 2.5328 | -0.0406 | -0.5887 | -0.0922 | 0.0743 | 1.924 | 3100.5 |
| 3110.5 | 99.09 | -0.63 | 2.5468 | -0.4023 | 2.5147 | -0.0278 | -0.5850 | -0.1184 | 0.0746 | 1.809 | 3110.5 |
| 3120.5 | 101.40 | -0.34 | 2.5423 | -0.5026 | 2.4921 | -0.0150 | -0.5803 | -0.1445 | 0.0748 | 1.709 | 3120.5 |
| 3130.5 | 103.72 | -0.05 | 2.5374 | -0.6019 | 2.4650 | -0.0021 | -0.5745 | -0.1705 | 0.0749 | 1.629 | 3130.5 |
| 3140.5 | 106.05 | 0.24 | 2.5322 | -0.7002 | 2.4334 | 0.0108 | -0.5676 | -0.1964 | 0.0749 | 1.573 | 3140.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3150.5 | 108.39 | 0.54 | 2.5266 | -0.7972 | 2.3974 | 0.0236 | -0.5597 | -0.2221 | 0.0747 | 1.544 | 3150.5 |
| 3160.5 | 110.74 | 0.83 | 2.5206 | -0.8927 | 2.3570 | 0.0365 | -0.5506 | -0.2475 | 0.0744 | 1.545 | 3160.5 |
| 3170.5 | 113.11 | 1.12 | 2.5144 | -0.9865 | 2.3122 | 0.0492 | -0.5405 | -0.2727 | 0.0739 | 1.574 | 3170.5 |
| 3180.5 | 115.48 | 1.41 | 2.5078 | -1.0786 | 2.2632 | 0.0619 | -0.5293 | -0.2976 | 0.0733 | 1.629 | 3180.5 |
| 3190.5 | 117.87 | 1.71 | 2.5009 | -1.1686 | 2.2099 | 0.0744 | -0.5170 | -0.3221 | 0.0726 | 1.706 | 3190.5 |
| 3200.5 | 120.27 | 2.00 | 2.4938 | -1.2564 | 2.1524 | 0.0868 | -0.5036 | -0.3462 | 0.0717 | 1.800 | 3200.5 |
| 3210.5 | 122.69 | 2.28 | 2.4863 | -1.3418 | 2.0908 | 0.0991 | -0.4891 | -0.3698 | 0.0706 | 1.906 | 3210.5 |
| 3220.5 | 125.12 | 2.57 | 2.4786 | -1.4246 | 2.0252 | 0.1111 | -0.4735 | -0.3930 | 0.0694 | 2.021 | 3220.5 |
| 3230.5 | 127.57 | 2.85 | 2.4706 | -1.5047 | 1.9556 | 0.1230 | -0.4569 | -0.4156 | 0.0681 | 2.140 | 3230.5 |
| 3240.5 | 130.04 | 3.13 | 2.4623 | -1.5818 | 1.8822 | 0.1346 | -0.4392 | -0.4376 | 0.0666 | 2.261 | 3240.5 |
| 3250.5 | 132.53 | 3.41 | 2.4538 | -1.6557 | 1.8051 | 0.1459 | -0.4205 | -0.4589 | 0.0650 | 2.381 | 3250.5 |
| 3260.5 | 135.03 | 3.68 | 2.4451 | -1.7264 | 1.7244 | 0.1569 | -0.4007 | -0.4796 | 0.0632 | 2.498 | 3260.5 |
| 3270.5 | 137.56 | 3.95 | 2.4362 | -1.7935 | 1.6402 | 0.1676 | -0.3798 | -0.4995 | 0.0613 | 2.611 | 3270.5 |
| 3280.5 | 140.10 | 4.21 | 2.4271 | -1.8570 | 1.5526 | 0.1780 | -0.3580 | -0.5186 | 0.0593 | 2.717 | 3280.5 |
| 3290.5 | 142.67 | 4.46 | 2.4178 | -1.9166 | 1.4618 | 0.1880 | -0.3352 | -0.5368 | 0.0570 | 2.817 | 3290.5 |
| 3300.5 | 145.25 | 4.71 | 2.4083 | -1.9722 | 1.3679 | 0.1976 | -0.3113 | -0.5542 | 0.0547 | 2.909 | 3300.5 |
| 3310.5 | 147.86 | 4.95 | 2.3988 | -2.0237 | 1.2712 | 0.2068 | -0.2866 | -0.5705 | 0.0522 | 2.992 | 3310.5 |
| 3320.5 | 150.50 | 5.18 | 2.3891 | -2.0708 | 1.1717 | 0.2156 | -0.2609 | -0.5858 | 0.0495 | 3.067 | 3320.5 |
| 3330.5 | 153.15 | 5.40 | 2.3793 | -2.1134 | 1.0697 | 0.2239 | -0.2343 | -0.6000 | 0.0467 | 3.132 | 3330.5 |
| 3340.5 | 155.83 | 5.61 | 2.3694 | -2.1514 | 0.9653 | 0.2316 | -0.2069 | -0.6131 | 0.0438 | 3.188 | 3340.5 |
| 3350.5 | 158.54 | 5.81 | 2.3594 | -2.1846 | 0.8588 | 0.2389 | -0.1787 | -0.6250 | 0.0407 | 3.233 | 3350.5 |
| 3360.5 | 161.27 | 6.00 | 2.3495 | -2.2128 | 0.7504 | 0.2457 | -0.1497 | -0.6356 | 0.0375 | 3.269 | 3360.5 |
| 3370.5 | 164.02 | 6.18 | 2.3395 | -2.2360 | 0.6402 | 0.2518 | -0.1200 | -0.6449 | 0.0342 | 3.295 | 3370.5 |
| 3380.5 | 166.80 | 6.34 | 2.3295 | -2.2541 | 0.5286 | 0.2574 | -0.0897 | -0.6528 | 0.0308 | 3.310 | 3380.5 |
| 3390.5 | 169.61 | 6.50 | 2.3196 | -2.2669 | 0.4157 | 0.2624 | -0.0587 | -0.6593 | 0.0272 | 3.316 | 3390.5 |
| 3400.5 | 172.44 | 6.63 | 2.3097 | -2.2743 | 0.3018 | 0.2668 | -0.0272 | -0.6642 | 0.0236 | 3.311 | 3400.5 |
| 3410.5 | 175.30 | 6.75 | 2.2999 | -2.2762 | 0.1873 | 0.2705 | 0.0048 | -0.6677 | 0.0198 | 3.295 | 3410.5 |
| 3420.5 | 178.18 | 6.86 | 2.2902 | -2.2726 | 0.0722 | 0.2736 | 0.0372 | -0.6695 | 0.0159 | 3.270 | 3420.5 |
| 3430.5 | 181.09 | 6.95 | 2.2806 | -2.2634 | -0.0430 | 0.2760 | 0.0699 | -0.6697 | 0.0119 | 3.235 | 3430.5 |
| 3440.5 | 184.02 | 7.02 | 2.2712 | -2.2486 | -0.1581 | 0.2777 | 0.1028 | -0.6682 | 0.0079 | 3.190 | 3440.5 |
| 3450.5 | 186.98 | 7.08 | 2.2619 | -2.2280 | -0.2728 | 0.2787 | 0.1359 | -0.6651 | 0.0038 | 3.135 | 3450.5 |
| 3460.5 | 189.96 | 7.11 | 2.2529 | -2.2018 | -0.3868 | 0.2790 | 0.1690 | -0.6601 | -0.0004 | 3.072 | 3460.5 |
| 3470.5 | 192.97 | 7.13 | 2.2441 | -2.1699 | -0.4998 | 0.2786 | 0.2021 | -0.6534 | -0.0046 | 3.000 | 3470.5 |
| 3480.5 | 196.00 | 7.13 | 2.2355 | -2.1323 | -0.6115 | 0.2774 | 0.2350 | -0.6449 | -0.0089 | 2.919 | 3480.5 |
| 3490.5 | 199.06 | 7.11 | 2.2273 | -2.0891 | -0.7216 | 0.2755 | 0.2677 | -0.6346 | -0.0131 | 2.830 | 3490.5 |
| 3500.5 | 202.13 | 7.06 | 2.2194 | -2.0402 | -0.8298 | 0.2729 | 0.3000 | -0.6224 | -0.0174 | 2.735 | 3500.5 |
| 3510.5 | 205.23 | 7.00 | 2.2117 | -1.9859 | -0.9357 | 0.2695 | 0.3319 | -0.6085 | -0.0217 | 2.633 | 3510.5 |
| 3520.5 | 208.34 | 6.91 | 2.2045 | -1.9261 | -1.0390 | 0.2654 | 0.3631 | -0.5927 | -0.0260 | 2.525 | 3520.5 |
| 3530.5 | 211.48 | 6.81 | 2.1976 | -1.8610 | -1.1395 | 0.2606 | 0.3937 | -0.5751 | -0.0302 | 2.412 | 3530.5 |
| 3540.5 | 214.63 | 6.68 | 2.1912 | -1.7907 | -1.2368 | 0.2550 | 0.4234 | -0.5558 | -0.0344 | 2.295 | 3540.5 |
| 3550.5 | 217.80 | 6.54 | 2.1851 | -1.7154 | -1.3306 | 0.2487 | 0.4522 | -0.5347 | -0.0386 | 2.175 | 3550.5 |
| 3560.5 | 220.98 | 6.37 | 2.1795 | -1.6352 | -1.4206 | 0.2417 | 0.4800 | -0.5119 | -0.0426 | 2.054 | 3560.5 |
| 3570.5 | 224.18 | 6.18 | 2.1744 | -1.5503 | -1.5066 | 0.2341 | 0.5065 | -0.4875 | -0.0466 | 1.932 | 3570.5 |
| 3580.5 | 227.39 | 5.97 | 2.1698 | -1.4610 | -1.5883 | 0.2257 | 0.5318 | -0.4615 | -0.0505 | 1.811 | 3580.5 |
| 3590.5 | 230.61 | 5.74 | 2.1657 | -1.3674 | -1.6653 | 0.2167 | 0.5557 | -0.4340 | -0.0542 | 1.693 | 3590.5 |
| 3600.5 | 233.84 | 5.50 | 2.1620 | -1.2699 | -1.7375 | 0.2071 | 0.5781 | -0.4051 | -0.0578 | 1.579 | 3600.5 |
| 3610.5 | 237.07 | 5.23 | 2.1589 | -1.1686 | -1.8046 | 0.1968 | 0.5989 | -0.3749 | -0.0612 | 1.472 | 3610.5 |
| 3620.5 | 240.32 | 4.95 | 2.1564 | -1.0639 | -1.8664 | 0.1860 | 0.6180 | -0.3435 | -0.0645 | 1.375 | 3620.5 |
| 3630.5 | 243.56 | 4.65 | 2.1544 | -0.9561 | -1.9227 | 0.1746 | 0.6354 | -0.3109 | -0.0676 | 1.290 | 3630.5 |
| 3640.5 | 246.81 | 4.34 | 2.1530 | -0.8454 | -1.9733 | 0.1628 | 0.6509 | -0.2773 | -0.0705 | 1.222 | 3640.5 |
| 3650.5 | 250.06 | 4.01 | 2.1521 | -0.7323 | -2.0181 | 0.1504 | 0.6645 | -0.2429 | -0.0732 | 1.172 | 3650.5 |
| 3660.5 | 253.30 | 3.67 | 2.1518 | -0.6169 | -2.0569 | 0.1376 | 0.6761 | -0.2077 | -0.0757 | 1.145 | 3660.5 |
| 3670.5 | 256.55 | 3.31 | 2.1521 | -0.4998 | -2.0895 | 0.1243 | 0.6858 | -0.1719 | -0.0780 | 1.142 | 3670.5 |
| 3680.5 | 259.79 | 2.95 | 2.1529 | -0.3811 | -2.1160 | 0.1108 | 0.6934 | -0.1356 | -0.0800 | 1.163 | 3680.5 |
| 3690.5 | 263.03 | 2.58 | 2.1543 | -0.2613 | -2.1362 | 0.0968 | 0.6989 | -0.0990 | -0.0818 | 1.207 | 3690.5 |
| 3700.5 | 266.25 | 2.20 | 2.1562 | -0.1408 | -2.1500 | 0.0826 | 0.7024 | -0.0622 | -0.0833 | 1.270 | 3700.5 |
| 3710.5 | 269.47 | 1.81 | 2.1587 | -0.0198 | -2.1576 | 0.0682 | 0.7038 | -0.0253 | -0.0846 | 1.350 | 3710.5 |
| 3720.5 | 272.69 | 1.42 | 2.1618 | 0.1012 | -2.1587 | 0.0535 | 0.7031 | 0.0116 | -0.0857 | 1.443 | 3720.5 |
| 3730.5 | 275.88 | 1.02 | 2.1653 | 0.2220 | -2.1536 | 0.0387 | 0.7003 | 0.0482 | -0.0865 | 1.546 | 3730.5 |
| 3740.5 | 279.07 | 0.63 | 2.1694 | 0.3421 | -2.1422 | 0.0238 | 0.6955 | 0.0845 | -0.0870 | 1.657 | 3740.5 |
| 3750.5 | 282.25 | 0.23 | 2.1740 | 0.4612 | -2.1245 | 0.0088 | 0.6888 | 0.1204 | -0.0873 | 1.773 | 3750.5 |
| 3760.5 | 285.41 | -0.16 | 2.1791 | 0.5789 | -2.1008 | -0.0062 | 0.6801 | 0.1556 | -0.0873 | 1.892 | 3760.5 |
| 3770.5 | 288.55 | -0.56 | 2.1847 | 0.6950 | -2.0710 | -0.0212 | 0.6696 | 0.1902 | -0.0871 | 2.012 | 3770.5 |
| 3780.5 | 291.68 | -0.95 | 2.1907 | 0.8092 | -2.0354 | -0.0361 | 0.6572 | 0.2239 | -0.0866 | 2.133 | 3780.5 |
| 3790.5 | 294.79 | -1.33 | 2.1971 | 0.9211 | -1.9941 | -0.0510 | 0.6431 | 0.2567 | -0.0859 | 2.253 | 3790.5 |
| 3800.5 | 297.89 | -1.71 | 2.2039 | 1.0304 | -1.9471 | -0.0657 | 0.6274 | 0.2886 | -0.0849 | 2.370 | 3800.5 |
| 3810.5 | 300.96 | -2.08 | 2.2112 | 1.1368 | -1.8948 | -0.0802 | 0.6100 | 0.3193 | -0.0838 | 2.484 | 3810.5 |
| 3820.5 | 304.02 | -2.44 | 2.2187 | 1.2402 | -1.8374 | -0.0945 | 0.5912 | 0.3488 | -0.0824 | 2.594 | 3820.5 |
| 3830.5 | 307.05 | -2.79 | 2.2267 | 1.3401 | -1.7749 | -0.1085 | 0.5710 | 0.3771 | -0.0808 | 2.698 | 3830.5 |
| 3840.5 | 310.07 | -3.14 | 2.2349 | 1.4365 | -1.7077 | -0.1223 | 0.5495 | 0.4041 | -0.0790 | 2.797 | 3840.5 |
| 3850.5 | 313.07 | -3.47 | 2.2434 | 1.5291 | -1.6359 | -0.1357 | 0.5268 | 0.4298 | -0.0770 | 2.889 | 3850.5 |
| 3860.5 | 316.04 | -3.79 | 2.2522 | 1.6177 | -1.5599 | -0.1488 | 0.5029 | 0.4540 | -0.0749 | 2.973 | 3860.5 |
| 3870.5 | 319.00 | -4.09 | 2.2612 | 1.7021 | -1.4798 | -0.1614 | 0.4781 | 0.4767 | -0.0725 | 3.049 | 3870.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 3880.5 | 321.93 | -4.39 | 2.2704 | 1.7821 | -1.3960 | -0.1737 | 0.4523 | 0.4980 | -0.0701 | 3.116 | 3880.5 |
| 3890.5 | 324.84 | -4.67 | 2.2798 | 1.8576 | -1.3086 | -0.1855 | 0.4257 | 0.5178 | -0.0674 | 3.174 | 3890.5 |
| 3900.5 | 327.73 | -4.93 | 2.2894 | 1.9285 | -1.2179 | -0.1969 | 0.3984 | 0.5360 | -0.0647 | 3.223 | 3900.5 |
| 3910.5 | 330.59 | -5.19 | 2.2991 | 1.9947 | -1.1243 | -0.2078 | 0.3704 | 0.5527 | -0.0618 | 3.261 | 3910.5 |
| 3920.5 | 333.44 | -5.42 | 2.3089 | 2.0559 | -1.0279 | -0.2182 | 0.3419 | 0.5678 | -0.0588 | 3.288 | 3920.5 |
| 3930.5 | 336.26 | -5.64 | 2.3188 | 2.1123 | -0.9290 | -0.2280 | 0.3130 | 0.5814 | -0.0557 | 3.305 | 3930.5 |
| 3940.5 | 339.06 | -5.85 | 2.3287 | 2.1636 | -0.8279 | -0.2373 | 0.2837 | 0.5935 | -0.0525 | 3.312 | 3940.5 |
| 3950.5 | 341.84 | -6.04 | 2.3387 | 2.2099 | -0.7249 | -0.2461 | 0.2541 | 0.6040 | -0.0492 | 3.308 | 3950.5 |
| 3960.5 | 344.60 | -6.21 | 2.3487 | 2.2510 | -0.6202 | -0.2543 | 0.2243 | 0.6130 | -0.0459 | 3.293 | 3960.5 |
| 3970.5 | 347.33 | -6.37 | 2.3587 | 2.2870 | -0.5141 | -0.2619 | 0.1943 | 0.6204 | -0.0425 | 3.267 | 3970.5 |
| 3980.5 | 350.05 | -6.52 | 2.3686 | 2.3179 | -0.4068 | -0.2689 | 0.1643 | 0.6264 | -0.0390 | 3.231 | 3980.5 |
| 3990.5 | 352.74 | -6.65 | 2.3785 | 2.3436 | -0.2986 | -0.2753 | 0.1343 | 0.6310 | -0.0355 | 3.186 | 3990.5 |
| 4000.5 | 355.41 | -6.76 | 2.3883 | 2.3641 | -0.1898 | -0.2811 | 0.1044 | 0.6341 | -0.0320 | 3.130 | 4000.5 |
| 4010.5 | 358.06 | -6.86 | 2.3980 | 2.3795 | -0.0806 | -0.2863 | 0.0747 | 0.6358 | -0.0284 | 3.065 | 4010.5 |
| 4020.5 | 0.69 | -6.94 | 2.4076 | 2.3898 | 0.0289 | -0.2909 | 0.0451 | 0.6361 | -0.0249 | 2.991 | 4020.5 |
| 4030.5 | 3.30 | -7.01 | 2.4170 | 2.3950 | 0.1382 | -0.2949 | 0.0158 | 0.6351 | -0.0213 | 2.908 | 4030.5 |
| 4040.5 | 5.89 | -7.06 | 2.4263 | 2.3952 | 0.2473 | -0.2982 | -0.0133 | 0.6328 | -0.0177 | 2.817 | 4040.5 |
| 4050.5 | 8.47 | -7.10 | 2.4355 | 2.3905 | 0.3558 | -0.3009 | -0.0419 | 0.6291 | -0.0141 | 2.720 | 4050.5 |
| 4060.5 | 11.02 | -7.12 | 2.4444 | 2.3808 | 0.4637 | -0.3031 | -0.0702 | 0.6243 | -0.0105 | 2.616 | 4060.5 |
| 4070.5 | 13.56 | -7.13 | 2.4531 | 2.3663 | 0.5706 | -0.3046 | -0.0980 | 0.6182 | -0.0070 | 2.507 | 4070.5 |
| 4080.5 | 16.07 | -7.13 | 2.4616 | 2.3471 | 0.6763 | -0.3054 | -0.1253 | 0.6110 | -0.0034 | 2.393 | 4080.5 |
| 4090.5 | 18.57 | -7.11 | 2.4699 | 2.3232 | 0.7807 | -0.3057 | -0.1521 | 0.6027 | 0.0001 | 2.277 | 4090.5 |
| 4100.5 | 21.06 | -7.08 | 2.4779 | 2.2948 | 0.8836 | -0.3054 | -0.1783 | 0.5932 | 0.0036 | 2.160 | 4100.5 |
| 4110.5 | 23.53 | -7.04 | 2.4857 | 2.2619 | 0.9847 | -0.3045 | -0.2040 | 0.5827 | 0.0070 | 2.044 | 4110.5 |
| 4120.5 | 25.98 | -6.98 | 2.4932 | 2.2247 | 1.0840 | -0.3030 | -0.2290 | 0.5711 | 0.0104 | 1.933 | 4120.5 |
| 4130.5 | 28.42 | -6.91 | 2.5004 | 2.1832 | 1.1812 | -0.3009 | -0.2534 | 0.5586 | 0.0137 | 1.828 | 4130.5 |
| 4140.5 | 30.84 | -6.83 | 2.5073 | 2.1375 | 1.2761 | -0.2983 | -0.2771 | 0.5452 | 0.0170 | 1.734 | 4140.5 |
| 4150.5 | 33.25 | -6.74 | 2.5139 | 2.0879 | 1.3687 | -0.2951 | -0.3000 | 0.5308 | 0.0202 | 1.655 | 4150.5 |
| 4160.5 | 35.64 | -6.64 | 2.5202 | 2.0343 | 1.4587 | -0.2913 | -0.3223 | 0.5155 | 0.0234 | 1.595 | 4160.5 |
| 4170.5 | 38.02 | -6.52 | 2.5261 | 1.9770 | 1.5460 | -0.2871 | -0.3437 | 0.4994 | 0.0265 | 1.559 | 4170.5 |
| 4180.5 | 40.40 | -6.40 | 2.5317 | 1.9161 | 1.6305 | -0.2822 | -0.3644 | 0.4825 | 0.0295 | 1.550 | 4180.5 |
| 4190.5 | 42.76 | -6.27 | 2.5370 | 1.8517 | 1.7120 | -0.2769 | -0.3844 | 0.4649 | 0.0325 | 1.568 | 4190.5 |
| 4200.5 | 45.10 | -6.12 | 2.5419 | 1.7839 | 1.7904 | -0.2711 | -0.4035 | 0.4465 | 0.0354 | 1.614 | 4200.5 |
| 4210.5 | 47.44 | -5.97 | 2.5465 | 1.7129 | 1.8656 | -0.2647 | -0.4217 | 0.4274 | 0.0381 | 1.685 | 4210.5 |
| 4220.5 | 49.77 | -5.80 | 2.5507 | 1.6389 | 1.9374 | -0.2579 | -0.4391 | 0.4076 | 0.0409 | 1.777 | 4220.5 |
| 4230.5 | 52.09 | -5.63 | 2.5545 | 1.5619 | 2.0058 | -0.2507 | -0.4557 | 0.3872 | 0.0435 | 1.885 | 4230.5 |
| 4240.5 | 54.41 | -5.45 | 2.5579 | 1.4821 | 2.0706 | -0.2430 | -0.4714 | 0.3662 | 0.0460 | 2.007 | 4240.5 |
| 4250.5 | 56.71 | -5.26 | 2.5610 | 1.3997 | 2.1317 | -0.2349 | -0.4862 | 0.3447 | 0.0485 | 2.136 | 4250.5 |
| 4260.5 | 59.01 | -5.06 | 2.5637 | 1.3149 | 2.1891 | -0.2263 | -0.5000 | 0.3226 | 0.0508 | 2.271 | 4260.5 |
| 4270.5 | 61.30 | -4.86 | 2.5660 | 1.2277 | 2.2427 | -0.2174 | -0.5130 | 0.3000 | 0.0531 | 2.407 | 4270.5 |
| 4280.5 | 63.59 | -4.65 | 2.5679 | 1.1384 | 2.2923 | -0.2080 | -0.5250 | 0.2769 | 0.0553 | 2.543 | 4280.5 |
| 4290.5 | 65.87 | -4.43 | 2.5694 | 1.0472 | 2.3380 | -0.1984 | -0.5361 | 0.2534 | 0.0573 | 2.675 | 4290.5 |
| 4300.5 | 68.15 | -4.20 | 2.5705 | 0.9540 | 2.3795 | -0.1883 | -0.5463 | 0.2295 | 0.0593 | 2.803 | 4300.5 |
| 4310.5 | 70.43 | -3.97 | 2.5713 | 0.8593 | 2.4169 | -0.1780 | -0.5555 | 0.2052 | 0.0612 | 2.924 | 4310.5 |
| 4320.5 | 72.70 | -3.73 | 2.5716 | 0.7630 | 2.4501 | -0.1673 | -0.5637 | 0.1806 | 0.0629 | 3.037 | 4320.5 |
| 4330.5 | 74.98 | -3.49 | 2.5715 | 0.6654 | 2.4790 | -0.1563 | -0.5709 | 0.1557 | 0.0645 | 3.141 | 4330.5 |
| 4340.5 | 77.25 | -3.23 | 2.5710 | 0.5666 | 2.5036 | -0.1451 | -0.5771 | 0.1305 | 0.0661 | 3.234 | 4340.5 |
| 4350.5 | 79.52 | -2.98 | 2.5702 | 0.4669 | 2.5239 | -0.1336 | -0.5824 | 0.1050 | 0.0675 | 3.318 | 4350.5 |
| 4360.5 | 81.79 | -2.72 | 2.5689 | 0.3663 | 2.5397 | -0.1219 | -0.5866 | 0.0793 | 0.0688 | 3.390 | 4360.5 |
| 4370.5 | 84.07 | -2.45 | 2.5673 | 0.2651 | 2.5512 | -0.1099 | -0.5898 | 0.0535 | 0.0699 | 3.450 | 4370.5 |
| 4380.5 | 86.34 | -2.19 | 2.5652 | 0.1634 | 2.5581 | -0.0978 | -0.5920 | 0.0275 | 0.0710 | 3.499 | 4380.5 |
| 4390.5 | 88.62 | -1.91 | 2.5628 | 0.0615 | 2.5606 | -0.0855 | -0.5931 | 0.0013 | 0.0719 | 3.535 | 4390.5 |
| 4400.5 | 90.91 | -1.64 | 2.5600 | -0.0406 | 2.5586 | -0.0731 | -0.5932 | -0.0249 | 0.0727 | 3.559 | 4400.5 |
| 4410.5 | 93.20 | -1.36 | 2.5567 | -0.1425 | 2.5521 | -0.0605 | -0.5923 | -0.0511 | 0.0734 | 3.570 | 4410.5 |
| 4420.5 | 95.49 | -1.07 | 2.5532 | -0.2443 | 2.5410 | -0.0478 | -0.5903 | -0.0774 | 0.0740 | 3.569 | 4420.5 |
| 4430.5 | 97.79 | -0.79 | 2.5492 | -0.3456 | 2.5254 | -0.0351 | -0.5872 | -0.1036 | 0.0744 | 3.555 | 4430.5 |
| 4440.5 | 100.10 | -0.50 | 2.5449 | -0.4463 | 2.5053 | -0.0222 | -0.5831 | -0.1298 | 0.0747 | 3.529 | 4440.5 |
| 4450.5 | 102.42 | -0.21 | 2.5402 | -0.5461 | 2.4808 | -0.0094 | -0.5779 | -0.1559 | 0.0749 | 3.491 | 4450.5 |
| 4460.5 | 104.74 | 0.08 | 2.5351 | -0.6450 | 2.4517 | 0.0035 | -0.5716 | -0.1819 | 0.0749 | 3.441 | 4460.5 |
| 4470.5 | 107.07 | 0.37 | 2.5298 | -0.7428 | 2.4182 | 0.0164 | -0.5643 | -0.2077 | 0.0748 | 3.380 | 4470.5 |
| 4480.5 | 109.42 | 0.66 | 2.5240 | -0.8391 | 2.3803 | 0.0293 | -0.5559 | -0.2333 | 0.0746 | 3.307 | 4480.5 |
| 4490.5 | 111.78 | 0.96 | 2.5179 | -0.9340 | 2.3380 | 0.0421 | -0.5463 | -0.2586 | 0.0742 | 3.223 | 4490.5 |
| 4500.5 | 114.14 | 1.25 | 2.5116 | -1.0270 | 2.2913 | 0.0548 | -0.5357 | -0.2836 | 0.0737 | 3.129 | 4500.5 |
| 4510.5 | 116.52 | 1.54 | 2.5048 | -1.1182 | 2.2404 | 0.0674 | -0.5240 | -0.3083 | 0.0730 | 3.025 | 4510.5 |
| 4520.5 | 118.92 | 1.83 | 2.4978 | -1.2073 | 2.1852 | 0.0799 | -0.5112 | -0.3327 | 0.0722 | 2.913 | 4520.5 |
| 4530.5 | 121.33 | 2.12 | 2.4905 | -1.2941 | 2.1260 | 0.0922 | -0.4974 | -0.3566 | 0.0712 | 2.793 | 4530.5 |
| 4540.5 | 123.75 | 2.41 | 2.4829 | -1.3783 | 2.0626 | 0.1044 | -0.4824 | -0.3800 | 0.0701 | 2.665 | 4540.5 |
| 4550.5 | 126.19 | 2.69 | 2.4751 | -1.4600 | 1.9952 | 0.1163 | -0.4664 | -0.4029 | 0.0689 | 2.533 | 4550.5 |
| 4560.5 | 128.65 | 2.98 | 2.4670 | -1.5388 | 1.9240 | 0.1281 | -0.4493 | -0.4253 | 0.0675 | 2.397 | 4560.5 |
| 4570.5 | 131.13 | 3.25 | 2.4586 | -1.6145 | 1.8490 | 0.1396 | -0.4311 | -0.4470 | 0.0659 | 2.258 | 4570.5 |
| 4580.5 | 133.62 | 3.53 | 2.4500 | -1.6870 | 1.7702 | 0.1508 | -0.4119 | -0.4680 | 0.0643 | 2.119 | 4580.5 |
| 4590.5 | 136.13 | 3.80 | 2.4412 | -1.7562 | 1.6880 | 0.1617 | -0.3917 | -0.4884 | 0.0624 | 1.983 | 4590.5 |
| 4600.5 | 138.67 | 4.06 | 2.4322 | -1.8217 | 1.6023 | 0.1722 | -0.3704 | -0.5079 | 0.0604 | 1.853 | 4600.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 4610.5 | 141.22 | 4.32 | 2.4230 | -1.8836 | 1.5133 | 0.1824 | -0.3481 | -0.5267 | 0.0583 | 1.731 | 4610.5 |
| 4620.5 | 143.80 | 4.57 | 2.4137 | -1.9415 | 1.4211 | 0.1923 | -0.3249 | -0.5445 | 0.0560 | 1.622 | 4620.5 |
| 4630.5 | 146.39 | 4.81 | 2.4042 | -1.9953 | 1.3260 | 0.2017 | -0.3006 | -0.5614 | 0.0536 | 1.530 | 4630.5 |
| 4640.5 | 149.01 | 5.05 | 2.3945 | -2.0448 | 1.2280 | 0.2107 | -0.2755 | -0.5773 | 0.0510 | 1.459 | 4640.5 |
| 4650.5 | 151.66 | 5.28 | 2.3848 | -2.0900 | 1.1274 | 0.2193 | -0.2494 | -0.5922 | 0.0483 | 1.413 | 4650.5 |
| 4660.5 | 154.32 | 5.49 | 2.3749 | -2.1306 | 1.0243 | 0.2273 | -0.2225 | -0.6059 | 0.0455 | 1.393 | 4660.5 |
| 4670.5 | 157.01 | 5.70 | 2.3650 | -2.1665 | 0.9190 | 0.2349 | -0.1947 | -0.6185 | 0.0425 | 1.401 | 4670.5 |
| 4680.5 | 159.73 | 5.90 | 2.3551 | -2.1975 | 0.8116 | 0.2419 | -0.1661 | -0.6298 | 0.0394 | 1.435 | 4680.5 |
| 4690.5 | 162.47 | 6.08 | 2.3451 | -2.2236 | 0.7024 | 0.2484 | -0.1368 | -0.6398 | 0.0361 | 1.491 | 4690.5 |
| 4700.5 | 165.24 | 6.25 | 2.3351 | -2.2446 | 0.5915 | 0.2544 | -0.1068 | -0.6485 | 0.0327 | 1.565 | 4700.5 |
| 4710.5 | 168.03 | 6.41 | 2.3252 | -2.2603 | 0.4793 | 0.2597 | -0.0762 | -0.6558 | 0.0292 | 1.653 | 4710.5 |
| 4720.5 | 170.84 | 6.56 | 2.3152 | -2.2708 | 0.3660 | 0.2644 | -0.0450 | -0.6616 | 0.0256 | 1.751 | 4720.5 |
| 4730.5 | 173.69 | 6.69 | 2.3054 | -2.2758 | 0.2518 | 0.2685 | -0.0133 | -0.6659 | 0.0219 | 1.855 | 4730.5 |
| 4740.5 | 176.56 | 6.80 | 2.2956 | -2.2753 | 0.1370 | 0.2719 | 0.0189 | -0.6687 | 0.0181 | 1.963 | 4740.5 |
| 4750.5 | 179.45 | 6.90 | 2.2859 | -2.2693 | 0.0218 | 0.2747 | 0.0514 | -0.6698 | 0.0142 | 2.072 | 4750.5 |
| 4760.5 | 182.37 | 6.98 | 2.2764 | -2.2576 | -0.0934 | 0.2768 | 0.0842 | -0.6693 | 0.0102 | 2.180 | 4760.5 |
| 4770.5 | 185.31 | 7.05 | 2.2671 | -2.2403 | -0.2084 | 0.2782 | 0.1172 | -0.6671 | 0.0061 | 2.286 | 4770.5 |
| 4780.5 | 188.28 | 7.10 | 2.2579 | -2.2173 | -0.3228 | 0.2789 | 0.1504 | -0.6631 | 0.0020 | 2.389 | 4780.5 |
| 4790.5 | 191.28 | 7.12 | 2.2490 | -2.1886 | -0.4364 | 0.2789 | 0.1835 | -0.6574 | -0.0022 | 2.487 | 4790.5 |
| 4800.5 | 194.29 | 7.13 | 2.2403 | -2.1542 | -0.5489 | 0.2781 | 0.2165 | -0.6499 | -0.0065 | 2.580 | 4800.5 |
| 4810.5 | 197.34 | 7.12 | 2.2319 | -2.1141 | -0.6599 | 0.2767 | 0.2494 | -0.6406 | -0.0107 | 2.668 | 4810.5 |
| 4820.5 | 200.40 | 7.09 | 2.2238 | -2.0684 | -0.7692 | 0.2745 | 0.2819 | -0.6295 | -0.0150 | 2.749 | 4820.5 |
| 4830.5 | 203.48 | 7.04 | 2.2160 | -2.0171 | -0.8764 | 0.2715 | 0.3140 | -0.6165 | -0.0193 | 2.824 | 4830.5 |
| 4840.5 | 206.59 | 6.96 | 2.2085 | -1.9604 | -0.9812 | 0.2678 | 0.3456 | -0.6018 | -0.0236 | 2.891 | 4840.5 |
| 4850.5 | 209.71 | 6.87 | 2.2014 | -1.8983 | -1.0833 | 0.2634 | 0.3766 | -0.5852 | -0.0279 | 2.952 | 4850.5 |
| 4860.5 | 212.86 | 6.76 | 2.1947 | -1.8309 | -1.1824 | 0.2582 | 0.4068 | -0.5669 | -0.0321 | 3.005 | 4860.5 |
| 4870.5 | 216.02 | 6.62 | 2.1885 | -1.7583 | -1.2783 | 0.2523 | 0.4361 | -0.5467 | -0.0363 | 3.050 | 4870.5 |
| 4880.5 | 219.19 | 6.47 | 2.1826 | -1.6809 | -1.3705 | 0.2458 | 0.4645 | -0.5249 | -0.0404 | 3.086 | 4880.5 |
| 4890.5 | 222.38 | 6.29 | 2.1772 | -1.5986 | -1.4588 | 0.2385 | 0.4917 | -0.5014 | -0.0444 | 3.115 | 4890.5 |
| 4900.5 | 225.58 | 6.09 | 2.1723 | -1.5118 | -1.5429 | 0.2305 | 0.5177 | -0.4763 | -0.0483 | 3.135 | 4900.5 |
| 4910.5 | 228.80 | 5.87 | 2.1679 | -1.4205 | -1.6225 | 0.2219 | 0.5424 | -0.4497 | -0.0521 | 3.147 | 4910.5 |
| 4920.5 | 232.02 | 5.64 | 2.1640 | -1.3252 | -1.6975 | 0.2126 | 0.5657 | -0.4215 | -0.0558 | 3.150 | 4920.5 |
| 4930.5 | 235.25 | 5.38 | 2.1606 | -1.2260 | -1.7675 | 0.2027 | 0.5874 | -0.3921 | -0.0593 | 3.144 | 4930.5 |
| 4940.5 | 238.49 | 5.11 | 2.1578 | -1.1232 | -1.8323 | 0.1922 | 0.6075 | -0.3613 | -0.0627 | 3.129 | 4940.5 |
| 4950.5 | 241.73 | 4.82 | 2.1555 | -1.0171 | -1.8917 | 0.1811 | 0.6258 | -0.3293 | -0.0659 | 3.106 | 4950.5 |
| 4960.5 | 244.98 | 4.51 | 2.1537 | -0.9080 | -1.9456 | 0.1695 | 0.6424 | -0.2963 | -0.0689 | 3.073 | 4960.5 |
| 4970.5 | 248.23 | 4.19 | 2.1525 | -0.7962 | -1.9936 | 0.1574 | 0.6571 | -0.2624 | -0.0717 | 3.033 | 4970.5 |
| 4980.5 | 251.48 | 3.86 | 2.1519 | -0.6821 | -2.0358 | 0.1448 | 0.6698 | -0.2276 | -0.0743 | 2.984 | 4980.5 |
| 4990.5 | 254.72 | 3.51 | 2.1518 | -0.5659 | -2.0719 | 0.1318 | 0.6806 | -0.1921 | -0.0767 | 2.926 | 4990.5 |
| 5000.5 | 257.97 | 3.15 | 2.1523 | -0.4480 | -2.1019 | 0.1184 | 0.6894 | -0.1561 | -0.0789 | 2.862 | 5000.5 |
| 5010.5 | 261.21 | 2.79 | 2.1534 | -0.3288 | -2.1256 | 0.1047 | 0.6961 | -0.1196 | -0.0808 | 2.789 | 5010.5 |
| 5020.5 | 264.44 | 2.41 | 2.1551 | -0.2087 | -2.1430 | 0.0907 | 0.7007 | -0.0829 | -0.0825 | 2.710 | 5020.5 |
| 5030.5 | 267.66 | 2.03 | 2.1573 | -0.0879 | -2.1541 | 0.0763 | 0.7032 | -0.0460 | -0.0839 | 2.624 | 5030.5 |
| 5040.5 | 270.88 | 1.64 | 2.1600 | 0.0332 | -2.1589 | 0.0618 | 0.7037 | -0.0091 | -0.0851 | 2.533 | 5040.5 |
| 5050.5 | 274.09 | 1.25 | 2.1633 | 0.1541 | -2.1573 | 0.0471 | 0.7021 | 0.0276 | -0.0860 | 2.436 | 5050.5 |
| 5060.5 | 277.28 | 0.85 | 2.1671 | 0.2746 | -2.1494 | 0.0322 | 0.6985 | 0.0641 | -0.0867 | 2.335 | 5060.5 |
| 5070.5 | 280.46 | 0.46 | 2.1714 | 0.3943 | -2.1352 | 0.0172 | 0.6928 | 0.1003 | -0.0871 | 2.230 | 5070.5 |
| 5080.5 | 283.63 | 0.06 | 2.1762 | 0.5129 | -2.1149 | 0.0022 | 0.6852 | 0.1359 | -0.0873 | 2.122 | 5080.5 |
| 5090.5 | 286.78 | -0.34 | 2.1815 | 0.6300 | -2.0885 | -0.0128 | 0.6757 | 0.1708 | -0.0872 | 2.013 | 5090.5 |
| 5100.5 | 289.92 | -0.73 | 2.1872 | 0.7452 | -2.0562 | -0.0278 | 0.6644 | 0.2050 | -0.0869 | 1.903 | 5100.5 |
| 5110.5 | 293.04 | -1.11 | 2.1934 | 0.8584 | -2.0180 | -0.0427 | 0.6513 | 0.2384 | -0.0863 | 1.794 | 5110.5 |
| 5120.5 | 296.15 | -1.50 | 2.2000 | 0.9692 | -1.9742 | -0.0574 | 0.6364 | 0.2708 | -0.0855 | 1.687 | 5120.5 |
| 5130.5 | 299.23 | -1.87 | 2.2070 | 1.0773 | -1.9249 | -0.0720 | 0.6200 | 0.3021 | -0.0844 | 1.586 | 5130.5 |
| 5140.5 | 302.30 | -2.24 | 2.2144 | 1.1824 | -1.8703 | -0.0865 | 0.6020 | 0.3324 | -0.0832 | 1.492 | 5140.5 |
| 5150.5 | 305.35 | -2.60 | 2.2222 | 1.2843 | -1.8106 | -0.1007 | 0.5825 | 0.3614 | -0.0817 | 1.408 | 5150.5 |
| 5160.5 | 308.38 | -2.94 | 2.2302 | 1.3828 | -1.7461 | -0.1146 | 0.5617 | 0.3891 | -0.0800 | 1.338 | 5160.5 |
| 5170.5 | 311.38 | -3.28 | 2.2386 | 1.4775 | -1.6768 | -0.1282 | 0.5397 | 0.4155 | -0.0782 | 1.286 | 5170.5 |
| 5180.5 | 314.37 | -3.61 | 2.2472 | 1.5684 | -1.6032 | -0.1415 | 0.5165 | 0.4405 | -0.0761 | 1.255 | 5180.5 |
| 5190.5 | 317.34 | -3.92 | 2.2561 | 1.6551 | -1.5254 | -0.1544 | 0.4922 | 0.4641 | -0.0739 | 1.247 | 5190.5 |
| 5200.5 | 320.28 | -4.22 | 2.2652 | 1.7376 | -1.4436 | -0.1669 | 0.4669 | 0.4862 | -0.0715 | 1.265 | 5200.5 |
| 5210.5 | 323.20 | -4.51 | 2.2745 | 1.8157 | -1.3582 | -0.1789 | 0.4408 | 0.5068 | -0.0689 | 1.307 | 5210.5 |
| 5220.5 | 326.10 | -4.79 | 2.2840 | 1.8892 | -1.2693 | -0.1906 | 0.4138 | 0.5259 | -0.0663 | 1.372 | 5220.5 |
| 5230.5 | 328.98 | -5.05 | 2.2936 | 1.9581 | -1.1773 | -0.2017 | 0.3862 | 0.5435 | -0.0634 | 1.456 | 5230.5 |
| 5240.5 | 331.84 | -5.29 | 2.3034 | 2.0221 | -1.0824 | -0.2124 | 0.3580 | 0.5595 | -0.0605 | 1.556 | 5240.5 |
| 5250.5 | 334.67 | -5.52 | 2.3132 | 2.0812 | -0.9849 | -0.2225 | 0.3293 | 0.5740 | -0.0575 | 1.669 | 5250.5 |
| 5260.5 | 337.49 | -5.74 | 2.3231 | 2.1354 | -0.8850 | -0.2322 | 0.3002 | 0.5869 | -0.0543 | 1.792 | 5260.5 |
| 5270.5 | 340.28 | -5.93 | 2.3331 | 2.1845 | -0.7831 | -0.2412 | 0.2708 | 0.5982 | -0.0511 | 1.920 | 5270.5 |
| 5280.5 | 343.05 | -6.12 | 2.3431 | 2.2285 | -0.6793 | -0.2497 | 0.2411 | 0.6081 | -0.0478 | 2.053 | 5280.5 |
| 5290.5 | 345.80 | -6.29 | 2.3531 | 2.2674 | -0.5739 | -0.2577 | 0.2112 | 0.6164 | -0.0444 | 2.188 | 5290.5 |
| 5300.5 | 348.52 | -6.44 | 2.3630 | 2.3011 | -0.4673 | -0.2650 | 0.1812 | 0.6233 | -0.0410 | 2.322 | 5300.5 |
| 5310.5 | 351.23 | -6.58 | 2.3729 | 2.3297 | -0.3596 | -0.2718 | 0.1512 | 0.6286 | -0.0375 | 2.455 | 5310.5 |
| 5320.5 | 353.91 | -6.70 | 2.3828 | 2.3532 | -0.2511 | -0.2779 | 0.1212 | 0.6325 | -0.0340 | 2.584 | 5320.5 |
| 5330.5 | 356.57 | -6.80 | 2.3926 | 2.3715 | -0.1421 | -0.2835 | 0.0914 | 0.6350 | -0.0304 | 2.708 | 5330.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 5340.5 | 359.21 | -6.89 | 2.4022 | 2.3846 | -0.0327 | -0.2884 | 0.0617 | 0.6361 | -0.0269 | 2.826 | 5340.5 |
| 5350.5 | 1.84 | -6.97 | 2.4117 | 2.3927 | 0.0767 | -0.2927 | 0.0322 | 0.6358 | -0.0233 | 2.937 | 5350.5 |
| 5360.5 | 4.44 | -7.03 | 2.4211 | 2.3957 | 0.1860 | -0.2964 | 0.0030 | 0.6342 | -0.0197 | 3.039 | 5360.5 |
| 5370.5 | 7.02 | -7.08 | 2.4304 | 2.3937 | 0.2948 | -0.2995 | -0.0258 | 0.6313 | -0.0161 | 3.133 | 5370.5 |
| 5380.5 | 9.59 | -7.11 | 2.4394 | 2.3868 | 0.4031 | -0.3019 | -0.0543 | 0.6272 | -0.0125 | 3.217 | 5380.5 |
| 5390.5 | 12.13 | -7.13 | 2.4482 | 2.3751 | 0.5106 | -0.3038 | -0.0824 | 0.6218 | -0.0090 | 3.290 | 5390.5 |
| 5400.5 | 14.66 | -7.13 | 2.4569 | 2.3585 | 0.6170 | -0.3050 | -0.1100 | 0.6152 | -0.0054 | 3.353 | 5400.5 |
| 5410.5 | 17.17 | -7.12 | 2.4653 | 2.3372 | 0.7222 | -0.3056 | -0.1371 | 0.6075 | -0.0019 | 3.404 | 5410.5 |
| 5420.5 | 19.66 | -7.10 | 2.4735 | 2.3114 | 0.8259 | -0.3057 | -0.1637 | 0.5986 | 0.0016 | 3.444 | 5420.5 |
| 5430.5 | 22.14 | -7.06 | 2.4814 | 2.2810 | 0.9281 | -0.3051 | -0.1896 | 0.5887 | 0.0051 | 3.471 | 5430.5 |
| 5440.5 | 24.60 | -7.01 | 2.4890 | 2.2461 | 1.0284 | -0.3039 | -0.2150 | 0.5778 | 0.0085 | 3.487 | 5440.5 |
| 5450.5 | 27.05 | -6.95 | 2.4964 | 2.2070 | 1.1268 | -0.3022 | -0.2397 | 0.5658 | 0.0118 | 3.491 | 5450.5 |
| 5460.5 | 29.48 | -6.88 | 2.5034 | 2.1637 | 1.2230 | -0.2999 | -0.2638 | 0.5529 | 0.0152 | 3.483 | 5460.5 |
| 5470.5 | 31.89 | -6.79 | 2.5102 | 2.1163 | 1.3169 | -0.2970 | -0.2872 | 0.5390 | 0.0184 | 3.462 | 5470.5 |
| 5480.5 | 34.30 | -6.70 | 2.5167 | 2.0649 | 1.4084 | -0.2935 | -0.3098 | 0.5242 | 0.0216 | 3.431 | 5480.5 |
| 5490.5 | 36.69 | -6.59 | 2.5228 | 2.0097 | 1.4972 | -0.2895 | -0.3318 | 0.5086 | 0.0248 | 3.387 | 5490.5 |
| 5500.5 | 39.06 | -6.47 | 2.5286 | 1.9508 | 1.5833 | -0.2850 | -0.3529 | 0.4921 | 0.0278 | 3.333 | 5500.5 |
| 5510.5 | 41.43 | -6.34 | 2.5341 | 1.8883 | 1.6665 | -0.2800 | -0.3733 | 0.4749 | 0.0308 | 3.267 | 5510.5 |
| 5520.5 | 43.78 | -6.20 | 2.5392 | 1.8224 | 1.7467 | -0.2744 | -0.3928 | 0.4569 | 0.0337 | 3.192 | 5520.5 |
| 5530.5 | 46.13 | -6.06 | 2.5440 | 1.7532 | 1.8237 | -0.2684 | -0.4116 | 0.4382 | 0.0366 | 3.106 | 5530.5 |
| 5540.5 | 48.46 | -5.90 | 2.5484 | 1.6809 | 1.8974 | -0.2618 | -0.4295 | 0.4188 | 0.0393 | 3.011 | 5540.5 |
| 5550.5 | 50.79 | -5.73 | 2.5524 | 1.6055 | 1.9677 | -0.2548 | -0.4465 | 0.3988 | 0.0420 | 2.908 | 5550.5 |
| 5560.5 | 53.11 | -5.55 | 2.5560 | 1.5273 | 2.0346 | -0.2474 | -0.4627 | 0.3781 | 0.0446 | 2.797 | 5560.5 |
| 5570.5 | 55.41 | -5.37 | 2.5593 | 1.4464 | 2.0978 | -0.2395 | -0.4780 | 0.3569 | 0.0471 | 2.679 | 5570.5 |
| 5580.5 | 57.72 | -5.18 | 2.5622 | 1.3629 | 2.1573 | -0.2312 | -0.4923 | 0.3351 | 0.0495 | 2.556 | 5580.5 |
| 5590.5 | 60.01 | -4.98 | 2.5648 | 1.2770 | 2.2131 | -0.2224 | -0.5058 | 0.3128 | 0.0519 | 2.429 | 5590.5 |
| 5600.5 | 62.30 | -4.77 | 2.5669 | 1.1889 | 2.2649 | -0.2133 | -0.5184 | 0.2900 | 0.0541 | 2.301 | 5600.5 |
| 5610.5 | 64.59 | -4.55 | 2.5686 | 1.0987 | 2.3128 | -0.2038 | -0.5300 | 0.2667 | 0.0562 | 2.173 | 5610.5 |
| 5620.5 | 66.87 | -4.33 | 2.5700 | 1.0066 | 2.3566 | -0.1940 | -0.5407 | 0.2430 | 0.0582 | 2.048 | 5620.5 |
| 5630.5 | 69.15 | -4.10 | 2.5709 | 0.9128 | 2.3964 | -0.1838 | -0.5504 | 0.2189 | 0.0601 | 1.930 | 5630.5 |
| 5640.5 | 71.42 | -3.86 | 2.5715 | 0.8173 | 2.4319 | -0.1733 | -0.5592 | 0.1945 | 0.0619 | 1.822 | 5640.5 |
| 5650.5 | 73.70 | -3.62 | 2.5716 | 0.7204 | 2.4633 | -0.1625 | -0.5669 | 0.1697 | 0.0636 | 1.730 | 5650.5 |
| 5660.5 | 75.97 | -3.38 | 2.5714 | 0.6223 | 2.4903 | -0.1514 | -0.5737 | 0.1447 | 0.0652 | 1.657 | 5660.5 |
| 5670.5 | 78.24 | -3.12 | 2.5707 | 0.5231 | 2.5130 | -0.1401 | -0.5795 | 0.1194 | 0.0667 | 1.609 | 5670.5 |
| 5680.5 | 80.51 | -2.87 | 2.5697 | 0.4230 | 2.5314 | -0.1285 | -0.5843 | 0.0938 | 0.0681 | 1.588 | 5680.5 |
| 5690.5 | 82.79 | -2.60 | 2.5682 | 0.3221 | 2.5453 | -0.1167 | -0.5881 | 0.0680 | 0.0693 | 1.596 | 5690.5 |
| 5700.5 | 85.06 | -2.34 | 2.5664 | 0.2207 | 2.5548 | -0.1047 | -0.5909 | 0.0421 | 0.0704 | 1.632 | 5700.5 |
| 5710.5 | 87.34 | -2.07 | 2.5642 | 0.1189 | 2.5598 | -0.0925 | -0.5926 | 0.0161 | 0.0714 | 1.695 | 5710.5 |
| 5720.5 | 89.62 | -1.79 | 2.5616 | 0.0168 | 2.5603 | -0.0801 | -0.5933 | -0.0101 | 0.0723 | 1.780 | 5720.5 |
| 5730.5 | 91.91 | -1.51 | 2.5586 | -0.0852 | 2.5563 | -0.0676 | -0.5929 | -0.0363 | 0.0731 | 1.882 | 5730.5 |
| 5740.5 | 94.20 | -1.23 | 2.5552 | -0.1871 | 2.5478 | -0.0550 | -0.5915 | -0.0626 | 0.0737 | 1.996 | 5740.5 |
| 5750.5 | 96.50 | -0.95 | 2.5515 | -0.2887 | 2.5347 | -0.0422 | -0.5891 | -0.0889 | 0.0742 | 2.119 | 5750.5 |
| 5760.5 | 98.80 | -0.66 | 2.5474 | -0.3897 | 2.5172 | -0.0294 | -0.5856 | -0.1151 | 0.0746 | 2.247 | 5760.5 |
| 5770.5 | 101.11 | -0.37 | 2.5429 | -0.4901 | 2.4951 | -0.0166 | -0.5810 | -0.1413 | 0.0748 | 2.376 | 5770.5 |
| 5780.5 | 103.43 | -0.08 | 2.5380 | -0.5895 | 2.4686 | -0.0037 | -0.5753 | -0.1673 | 0.0749 | 2.503 | 5780.5 |
| 5790.5 | 105.76 | 0.21 | 2.5328 | -0.6879 | 2.4376 | 0.0092 | -0.5686 | -0.1932 | 0.0749 | 2.628 | 5790.5 |
| 5800.5 | 108.10 | 0.50 | 2.5273 | -0.7851 | 2.4021 | 0.0220 | -0.5607 | -0.2189 | 0.0747 | 2.747 | 5800.5 |
| 5810.5 | 110.45 | 0.79 | 2.5214 | -0.8808 | 2.3623 | 0.0349 | -0.5518 | -0.2444 | 0.0744 | 2.859 | 5810.5 |
| 5820.5 | 112.81 | 1.09 | 2.5152 | -0.9749 | 2.3181 | 0.0476 | -0.5418 | -0.2696 | 0.0740 | 2.964 | 5820.5 |
| 5830.5 | 115.18 | 1.38 | 2.5087 | -1.0672 | 2.2696 | 0.0603 | -0.5307 | -0.2945 | 0.0734 | 3.060 | 5830.5 |
| 5840.5 | 117.57 | 1.67 | 2.5018 | -1.1574 | 2.2168 | 0.0729 | -0.5186 | -0.3190 | 0.0727 | 3.146 | 5840.5 |
| 5850.5 | 119.97 | 1.96 | 2.4947 | -1.2455 | 2.1598 | 0.0853 | -0.5053 | -0.3432 | 0.0718 | 3.223 | 5850.5 |
| 5860.5 | 122.39 | 2.25 | 2.4872 | -1.3312 | 2.0987 | 0.0976 | -0.4910 | -0.3669 | 0.0708 | 3.289 | 5860.5 |
| 5870.5 | 124.82 | 2.53 | 2.4795 | -1.4144 | 2.0336 | 0.1096 | -0.4755 | -0.3901 | 0.0696 | 3.344 | 5870.5 |
| 5880.5 | 127.27 | 2.82 | 2.4716 | -1.4948 | 1.9645 | 0.1215 | -0.4591 | -0.4128 | 0.0683 | 3.388 | 5880.5 |
| 5890.5 | 129.73 | 3.10 | 2.4633 | -1.5723 | 1.8916 | 0.1331 | -0.4415 | -0.4348 | 0.0668 | 3.420 | 5890.5 |
| 5900.5 | 132.22 | 3.37 | 2.4549 | -1.6466 | 1.8150 | 0.1445 | -0.4229 | -0.4563 | 0.0652 | 3.441 | 5900.5 |
| 5910.5 | 134.72 | 3.65 | 2.4462 | -1.7177 | 1.7347 | 0.1556 | -0.4032 | -0.4770 | 0.0635 | 3.451 | 5910.5 |
| 5920.5 | 137.24 | 3.91 | 2.4373 | -1.7853 | 1.6509 | 0.1663 | -0.3825 | -0.4970 | 0.0616 | 3.449 | 5920.5 |
| 5930.5 | 139.78 | 4.17 | 2.4282 | -1.8493 | 1.5637 | 0.1767 | -0.3608 | -0.5162 | 0.0595 | 3.436 | 5930.5 |
| 5940.5 | 142.35 | 4.43 | 2.4189 | -1.9094 | 1.4733 | 0.1868 | -0.3381 | -0.5346 | 0.0573 | 3.411 | 5940.5 |
| 5950.5 | 144.93 | 4.68 | 2.4095 | -1.9655 | 1.3798 | 0.1965 | -0.3144 | -0.5520 | 0.0550 | 3.375 | 5950.5 |
| 5960.5 | 147.54 | 4.92 | 2.4000 | -2.0175 | 1.2834 | 0.2057 | -0.2897 | -0.5685 | 0.0525 | 3.329 | 5960.5 |
| 5970.5 | 150.17 | 5.15 | 2.3903 | -2.0652 | 1.1843 | 0.2145 | -0.2642 | -0.5840 | 0.0499 | 3.271 | 5970.5 |
| 5980.5 | 152.82 | 5.37 | 2.3805 | -2.1083 | 1.0826 | 0.2228 | -0.2377 | -0.5983 | 0.0471 | 3.203 | 5980.5 |
| 5990.5 | 155.50 | 5.58 | 2.3706 | -2.1469 | 0.9785 | 0.2307 | -0.2104 | -0.6116 | 0.0442 | 3.126 | 5990.5 |
| 6000.5 | 158.20 | 5.79 | 2.3607 | -2.1807 | 0.8722 | 0.2380 | -0.1823 | -0.6236 | 0.0411 | 3.039 | 6000.5 |
| 6010.5 | 160.93 | 5.98 | 2.3507 | -2.2096 | 0.7640 | 0.2448 | -0.1534 | -0.6343 | 0.0380 | 2.943 | 6010.5 |
| 6020.5 | 163.68 | 6.16 | 2.3407 | -2.2334 | 0.6541 | 0.2511 | -0.1238 | -0.6438 | 0.0346 | 2.838 | 6020.5 |
| 6030.5 | 166.45 | 6.32 | 2.3308 | -2.2521 | 0.5426 | 0.2568 | -0.0935 | -0.6519 | 0.0312 | 2.727 | 6030.5 |
| 6040.5 | 169.26 | 6.48 | 2.3208 | -2.2656 | 0.4299 | 0.2618 | -0.0626 | -0.6585 | 0.0277 | 2.609 | 6040.5 |
| 6050.5 | 172.08 | 6.62 | 2.3109 | -2.2736 | 0.3161 | 0.2663 | -0.0312 | -0.6637 | 0.0240 | 2.486 | 6050.5 |
| 6060.5 | 174.94 | 6.74 | 2.3011 | -2.2763 | 0.2016 | 0.2701 | 0.0008 | -0.6673 | 0.0203 | 2.358 | 6060.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6070.5 | 177.82 | 6.85 | 2.2914 | -2.2734 | 0.0866 | 0.2732 | 0.0331 | -0.6694 | 0.0164 | 2.228 | 6070.5 |
| 6080.5 | 180.72 | 6.94 | 2.2818 | -2.2649 | -0.0286 | 0.2757 | 0.0657 | -0.6698 | 0.0124 | 2.096 | 6080.5 |
| 6090.5 | 183.65 | 7.01 | 2.2723 | -2.2507 | -0.1437 | 0.2775 | 0.0987 | -0.6685 | 0.0084 | 1.964 | 6090.5 |
| 6100.5 | 186.61 | 7.07 | 2.2631 | -2.2309 | -0.2585 | 0.2786 | 0.1317 | -0.6656 | 0.0043 | 1.835 | 6100.5 |
| 6110.5 | 189.59 | 7.11 | 2.2540 | -2.2054 | -0.3726 | 0.2790 | 0.1648 | -0.6608 | 0.0001 | 1.710 | 6110.5 |
| 6120.5 | 192.59 | 7.13 | 2.2452 | -2.1742 | -0.4858 | 0.2787 | 0.1979 | -0.6544 | -0.0041 | 1.592 | 6120.5 |
| 6130.5 | 195.62 | 7.13 | 2.2366 | -2.1373 | -0.5977 | 0.2776 | 0.2309 | -0.6461 | -0.0083 | 1.484 | 6130.5 |
| 6140.5 | 198.67 | 7.11 | 2.2283 | -2.0948 | -0.7079 | 0.2758 | 0.2636 | -0.6360 | -0.0126 | 1.389 | 6140.5 |
| 6150.5 | 201.75 | 7.07 | 2.2203 | -2.0466 | -0.8164 | 0.2733 | 0.2960 | -0.6240 | -0.0169 | 1.311 | 6150.5 |
| 6160.5 | 204.84 | 7.01 | 2.2127 | -1.9930 | -0.9226 | 0.2700 | 0.3279 | -0.6103 | -0.0212 | 1.254 | 6160.5 |
| 6170.5 | 207.95 | 6.93 | 2.2054 | -1.9339 | -1.0262 | 0.2660 | 0.3593 | -0.5948 | -0.0255 | 1.219 | 6170.5 |
| 6180.5 | 211.09 | 6.82 | 2.1985 | -1.8694 | -1.1271 | 0.2612 | 0.3899 | -0.5774 | -0.0297 | 1.208 | 6180.5 |
| 6190.5 | 214.24 | 6.70 | 2.1919 | -1.7998 | -1.2248 | 0.2557 | 0.4198 | -0.5583 | -0.0339 | 1.222 | 6190.5 |
| 6200.5 | 217.40 | 6.56 | 2.1859 | -1.7250 | -1.3191 | 0.2496 | 0.4487 | -0.5374 | -0.0381 | 1.259 | 6200.5 |
| 6210.5 | 220.59 | 6.39 | 2.1802 | -1.6454 | -1.4096 | 0.2427 | 0.4765 | -0.5148 | -0.0421 | 1.315 | 6210.5 |
| 6220.5 | 223.78 | 6.20 | 2.1750 | -1.5612 | -1.4961 | 0.2351 | 0.5033 | -0.4906 | -0.0461 | 1.387 | 6220.5 |
| 6230.5 | 226.99 | 6.00 | 2.1703 | -1.4724 | -1.5783 | 0.2268 | 0.5287 | -0.4648 | -0.0500 | 1.473 | 6230.5 |
| 6240.5 | 230.21 | 5.77 | 2.1661 | -1.3793 | -1.6559 | 0.2179 | 0.5528 | -0.4375 | -0.0537 | 1.567 | 6240.5 |
| 6250.5 | 233.43 | 5.53 | 2.1625 | -1.2823 | -1.7288 | 0.2083 | 0.5754 | -0.4088 | -0.0574 | 1.669 | 6250.5 |
| 6260.5 | 236.67 | 5.27 | 2.1593 | -1.1815 | -1.7965 | 0.1981 | 0.5964 | -0.3787 | -0.0608 | 1.774 | 6260.5 |
| 6270.5 | 239.91 | 4.98 | 2.1567 | -1.0772 | -1.8590 | 0.1874 | 0.6157 | -0.3474 | -0.0641 | 1.882 | 6270.5 |
| 6280.5 | 243.15 | 4.69 | 2.1546 | -0.9697 | -1.9160 | 0.1761 | 0.6333 | -0.3150 | -0.0672 | 1.992 | 6280.5 |
| 6290.5 | 246.40 | 4.38 | 2.1531 | -0.8594 | -1.9673 | 0.1643 | 0.6490 | -0.2816 | -0.0702 | 2.101 | 6290.5 |
| 6300.5 | 249.65 | 4.05 | 2.1522 | -0.7465 | -2.0128 | 0.1520 | 0.6629 | -0.2473 | -0.0729 | 2.208 | 6300.5 |
| 6310.5 | 252.90 | 3.71 | 2.1518 | -0.6315 | -2.0523 | 0.1392 | 0.6748 | -0.2122 | -0.0754 | 2.314 | 6310.5 |
| 6320.5 | 256.14 | 3.36 | 2.1520 | -0.5145 | -2.0858 | 0.1260 | 0.6847 | -0.1764 | -0.0777 | 2.416 | 6320.5 |
| 6330.5 | 259.39 | 2.99 | 2.1527 | -0.3960 | -2.1130 | 0.1125 | 0.6925 | -0.1402 | -0.0798 | 2.514 | 6330.5 |
| 6340.5 | 262.62 | 2.62 | 2.1541 | -0.2763 | -2.1340 | 0.0986 | 0.6983 | -0.1036 | -0.0816 | 2.608 | 6340.5 |
| 6350.5 | 265.85 | 2.24 | 2.1560 | -0.1559 | -2.1487 | 0.0844 | 0.7021 | -0.0668 | -0.0832 | 2.697 | 6350.5 |
| 6360.5 | 269.07 | 1.86 | 2.1584 | -0.0349 | -2.1570 | 0.0700 | 0.7037 | -0.0299 | -0.0845 | 2.780 | 6360.5 |
| 6370.5 | 272.28 | 1.47 | 2.1614 | 0.0861 | -2.1589 | 0.0554 | 0.7033 | 0.0070 | -0.0856 | 2.857 | 6370.5 |
| 6380.5 | 275.49 | 1.07 | 2.1649 | 0.2069 | -2.1546 | 0.0406 | 0.7008 | 0.0436 | -0.0864 | 2.927 | 6380.5 |
| 6390.5 | 278.67 | 0.68 | 2.1689 | 0.3271 | -2.1439 | 0.0257 | 0.6963 | 0.0800 | -0.0869 | 2.989 | 6390.5 |
| 6400.5 | 281.85 | 0.28 | 2.1734 | 0.4463 | -2.1271 | 0.0107 | 0.6898 | 0.1159 | -0.0872 | 3.044 | 6400.5 |
| 6410.5 | 285.01 | -0.11 | 2.1785 | 0.5643 | -2.1041 | -0.0043 | 0.6813 | 0.1512 | -0.0873 | 3.090 | 6410.5 |
| 6420.5 | 288.16 | -0.51 | 2.1840 | 0.6806 | -2.0751 | -0.0193 | 0.6710 | 0.1859 | -0.0871 | 3.128 | 6420.5 |
| 6430.5 | 291.29 | -0.90 | 2.1899 | 0.7950 | -2.0402 | -0.0343 | 0.6589 | 0.2197 | -0.0867 | 3.157 | 6430.5 |
| 6440.5 | 294.40 | -1.28 | 2.1963 | 0.9072 | -1.9995 | -0.0491 | 0.6450 | 0.2527 | -0.0860 | 3.176 | 6440.5 |
| 6450.5 | 297.50 | -1.66 | 2.2031 | 1.0168 | -1.9533 | -0.0638 | 0.6294 | 0.2846 | -0.0851 | 3.186 | 6450.5 |
| 6460.5 | 300.58 | -2.03 | 2.2102 | 1.1237 | -1.9017 | -0.0784 | 0.6123 | 0.3155 | -0.0839 | 3.187 | 6460.5 |
| 6470.5 | 303.64 | -2.40 | 2.2178 | 1.2274 | -1.8448 | -0.0927 | 0.5936 | 0.3452 | -0.0826 | 3.178 | 6470.5 |
| 6480.5 | 306.68 | -2.75 | 2.2257 | 1.3278 | -1.7830 | -0.1068 | 0.5736 | 0.3737 | -0.0810 | 3.159 | 6480.5 |
| 6490.5 | 309.69 | -3.09 | 2.2338 | 1.4247 | -1.7163 | -0.1206 | 0.5522 | 0.4008 | -0.0792 | 3.131 | 6490.5 |
| 6500.5 | 312.69 | -3.43 | 2.2423 | 1.5177 | -1.6451 | -0.1340 | 0.5297 | 0.4266 | -0.0773 | 3.093 | 6500.5 |
| 6510.5 | 315.67 | -3.75 | 2.2511 | 1.6068 | -1.5696 | -0.1471 | 0.5060 | 0.4510 | -0.0751 | 3.047 | 6510.5 |
| 6520.5 | 318.63 | -4.06 | 2.2601 | 1.6918 | -1.4901 | -0.1599 | 0.4812 | 0.4740 | -0.0728 | 2.991 | 6520.5 |
| 6530.5 | 321.56 | -4.35 | 2.2693 | 1.7723 | -1.4067 | -0.1722 | 0.4556 | 0.4954 | -0.0704 | 2.928 | 6530.5 |
| 6540.5 | 324.48 | -4.63 | 2.2786 | 1.8484 | -1.3197 | -0.1841 | 0.4291 | 0.5154 | -0.0678 | 2.856 | 6540.5 |
| 6550.5 | 327.37 | -4.90 | 2.2882 | 1.9199 | -1.2294 | -0.1955 | 0.4018 | 0.5338 | -0.0650 | 2.776 | 6550.5 |
| 6560.5 | 330.24 | -5.15 | 2.2979 | 1.9867 | -1.1361 | -0.2065 | 0.3740 | 0.5507 | -0.0622 | 2.690 | 6560.5 |
| 6570.5 | 333.08 | -5.39 | 2.3077 | 2.0486 | -1.0401 | -0.2169 | 0.3455 | 0.5660 | -0.0592 | 2.597 | 6570.5 |
| 6580.5 | 335.91 | -5.62 | 2.3175 | 2.1055 | -0.9415 | -0.2268 | 0.3166 | 0.5798 | -0.0561 | 2.499 | 6580.5 |
| 6590.5 | 338.71 | -5.82 | 2.3275 | 2.1575 | -0.8407 | -0.2362 | 0.2874 | 0.5920 | -0.0529 | 2.396 | 6590.5 |
| 6600.5 | 341.49 | -6.02 | 2.3375 | 2.2044 | -0.7379 | -0.2450 | 0.2578 | 0.6027 | -0.0497 | 2.289 | 6600.5 |
| 6610.5 | 344.25 | -6.19 | 2.3474 | 2.2461 | -0.6334 | -0.2533 | 0.2280 | 0.6119 | -0.0463 | 2.179 | 6610.5 |
| 6620.5 | 346.99 | -6.36 | 2.3574 | 2.2828 | -0.5274 | -0.2609 | 0.1981 | 0.6196 | -0.0429 | 2.069 | 6620.5 |
| 6630.5 | 349.71 | -6.50 | 2.3674 | 2.3143 | -0.4203 | -0.2680 | 0.1681 | 0.6258 | -0.0395 | 1.959 | 6630.5 |
| 6640.5 | 352.40 | -6.63 | 2.3773 | 2.3406 | -0.3122 | -0.2745 | 0.1381 | 0.6305 | -0.0360 | 1.852 | 6640.5 |
| 6650.5 | 355.08 | -6.75 | 2.3871 | 2.3618 | -0.2034 | -0.2804 | 0.1082 | 0.6338 | -0.0324 | 1.751 | 6650.5 |
| 6660.5 | 357.73 | -6.85 | 2.3968 | 2.3778 | -0.0942 | -0.2857 | 0.0784 | 0.6357 | -0.0289 | 1.658 | 6660.5 |
| 6670.5 | 0.36 | -6.93 | 2.4064 | 2.3888 | 0.0152 | -0.2903 | 0.0488 | 0.6361 | -0.0253 | 1.578 | 6670.5 |
| 6680.5 | 2.98 | -7.00 | 2.4159 | 2.3946 | 0.1245 | -0.2944 | 0.0194 | 0.6353 | -0.0217 | 1.514 | 6680.5 |
| 6690.5 | 5.57 | -7.05 | 2.4252 | 2.3955 | 0.2337 | -0.2978 | -0.0096 | 0.6331 | -0.0181 | 1.471 | 6690.5 |
| 6700.5 | 8.15 | -7.09 | 2.4343 | 2.3913 | 0.3423 | -0.3006 | -0.0384 | 0.6297 | -0.0145 | 1.451 | 6700.5 |
| 6710.5 | 10.70 | -7.12 | 2.4433 | 2.3823 | 0.4502 | -0.3028 | -0.0667 | 0.6250 | -0.0110 | 1.458 | 6710.5 |
| 6720.5 | 13.24 | -7.13 | 2.4520 | 2.3684 | 0.5573 | -0.3044 | -0.0945 | 0.6191 | -0.0074 | 1.491 | 6720.5 |
| 6730.5 | 15.76 | -7.13 | 2.4606 | 2.3498 | 0.6632 | -0.3054 | -0.1219 | 0.6120 | -0.0039 | 1.550 | 6730.5 |
| 6740.5 | 18.26 | -7.11 | 2.4689 | 2.3265 | 0.7677 | -0.3057 | -0.1488 | 0.6038 | -0.0003 | 1.630 | 6740.5 |
| 6750.5 | 20.75 | -7.08 | 2.4769 | 2.2986 | 0.8708 | -0.3055 | -0.1751 | 0.5944 | 0.0031 | 1.730 | 6750.5 |
| 6760.5 | 23.22 | -7.04 | 2.4847 | 2.2663 | 0.9722 | -0.3047 | -0.2008 | 0.5841 | 0.0066 | 1.845 | 6760.5 |
| 6770.5 | 25.67 | -6.99 | 2.4923 | 2.2296 | 1.0717 | -0.3032 | -0.2259 | 0.5726 | 0.0100 | 1.970 | 6770.5 |
| 6780.5 | 28.11 | -6.92 | 2.4995 | 2.1886 | 1.1692 | -0.3012 | -0.2504 | 0.5602 | 0.0133 | 2.103 | 6780.5 |
| 6790.5 | 30.54 | -6.84 | 2.5064 | 2.1434 | 1.2644 | -0.2987 | -0.2741 | 0.5469 | 0.0166 | 2.240 | 6790.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 6800.5 | 32.95 | -6.75 | 2.5131 | 2.0943 | 1.3573 | -0.2955 | -0.2972 | 0.5326 | 0.0198 | 2.378 | 6800.5 |
| 6810.5 | 35.34 | -6.65 | 2.5194 | 2.0412 | 1.4476 | -0.2918 | -0.3195 | 0.5175 | 0.0230 | 2.516 | 6810.5 |
| 6820.5 | 37.73 | -6.54 | 2.5254 | 1.9844 | 1.5353 | -0.2876 | -0.3411 | 0.5015 | 0.0261 | 2.650 | 6820.5 |
| 6830.5 | 40.10 | -6.42 | 2.5310 | 1.9239 | 1.6201 | -0.2829 | -0.3619 | 0.4847 | 0.0291 | 2.779 | 6830.5 |
| 6840.5 | 42.46 | -6.28 | 2.5364 | 1.8599 | 1.7020 | -0.2776 | -0.3819 | 0.4671 | 0.0321 | 2.903 | 6840.5 |
| 6850.5 | 44.81 | -6.14 | 2.5413 | 1.7926 | 1.7808 | -0.2718 | -0.4011 | 0.4488 | 0.0350 | 3.018 | 6850.5 |
| 6860.5 | 47.15 | -5.99 | 2.5459 | 1.7220 | 1.8563 | -0.2656 | -0.4195 | 0.4298 | 0.0378 | 3.125 | 6860.5 |
| 6870.5 | 49.48 | -5.83 | 2.5502 | 1.6483 | 1.9286 | -0.2588 | -0.4370 | 0.4101 | 0.0405 | 3.221 | 6870.5 |
| 6880.5 | 51.80 | -5.65 | 2.5540 | 1.5717 | 1.9974 | -0.2516 | -0.4537 | 0.3898 | 0.0432 | 3.308 | 6880.5 |
| 6890.5 | 54.12 | -5.47 | 2.5575 | 1.4922 | 2.0627 | -0.2440 | -0.4695 | 0.3689 | 0.0457 | 3.383 | 6890.5 |
| 6900.5 | 56.42 | -5.29 | 2.5606 | 1.4102 | 2.1243 | -0.2359 | -0.4844 | 0.3474 | 0.0482 | 3.447 | 6900.5 |
| 6910.5 | 58.72 | -5.09 | 2.5634 | 1.3256 | 2.1822 | -0.2274 | -0.4984 | 0.3254 | 0.0506 | 3.498 | 6910.5 |
| 6920.5 | 61.02 | -4.89 | 2.5657 | 1.2388 | 2.2362 | -0.2185 | -0.5114 | 0.3028 | 0.0528 | 3.538 | 6920.5 |
| 6930.5 | 63.30 | -4.67 | 2.5677 | 1.1497 | 2.2863 | -0.2092 | -0.5236 | 0.2798 | 0.0550 | 3.565 | 6930.5 |
| 6940.5 | 65.59 | -4.46 | 2.5692 | 1.0587 | 2.3325 | -0.1996 | -0.5348 | 0.2564 | 0.0571 | 3.579 | 6940.5 |
| 6950.5 | 67.87 | -4.23 | 2.5704 | 0.9658 | 2.3745 | -0.1896 | -0.5451 | 0.2325 | 0.0591 | 3.581 | 6950.5 |
| 6960.5 | 70.14 | -4.00 | 2.5712 | 0.8712 | 2.4124 | -0.1793 | -0.5544 | 0.2083 | 0.0609 | 3.570 | 6960.5 |
| 6970.5 | 72.42 | -3.76 | 2.5716 | 0.7751 | 2.4462 | -0.1686 | -0.5627 | 0.1837 | 0.0627 | 3.546 | 6970.5 |
| 6980.5 | 74.69 | -3.52 | 2.5715 | 0.6776 | 2.4756 | -0.1577 | -0.5700 | 0.1588 | 0.0643 | 3.511 | 6980.5 |
| 6990.5 | 76.96 | -3.27 | 2.5711 | 0.5790 | 2.5008 | -0.1465 | -0.5764 | 0.1336 | 0.0659 | 3.463 | 6990.5 |
| 7000.5 | 79.24 | -3.01 | 2.5703 | 0.4794 | 2.5216 | -0.1350 | -0.5818 | 0.1082 | 0.0673 | 3.404 | 7000.5 |
| 7010.5 | 81.51 | -2.75 | 2.5691 | 0.3789 | 2.5380 | -0.1234 | -0.5861 | 0.0826 | 0.0686 | 3.333 | 7010.5 |
| 7020.5 | 83.78 | -2.49 | 2.5675 | 0.2778 | 2.5500 | -0.1115 | -0.5894 | 0.0567 | 0.0698 | 3.251 | 7020.5 |
| 7030.5 | 86.06 | -2.22 | 2.5655 | 0.1762 | 2.5575 | -0.0993 | -0.5918 | 0.0307 | 0.0709 | 3.159 | 7030.5 |
| 7040.5 | 88.34 | -1.95 | 2.5631 | 0.0743 | 2.5605 | -0.0871 | -0.5930 | 0.0046 | 0.0718 | 3.057 | 7040.5 |
| 7050.5 | 90.62 | -1.67 | 2.5603 | -0.0278 | 2.5591 | -0.0746 | -0.5933 | -0.0216 | 0.0727 | 2.946 | 7050.5 |
| 7060.5 | 92.91 | -1.39 | 2.5572 | -0.1298 | 2.5531 | -0.0621 | -0.5925 | -0.0478 | 0.0734 | 2.827 | 7060.5 |
| 7070.5 | 95.20 | -1.11 | 2.5536 | -0.2316 | 2.5426 | -0.0494 | -0.5906 | -0.0741 | 0.0739 | 2.701 | 7070.5 |
| 7080.5 | 97.50 | -0.82 | 2.5497 | -0.3329 | 2.5276 | -0.0367 | -0.5877 | -0.1004 | 0.0744 | 2.570 | 7080.5 |
| 7090.5 | 99.81 | -0.54 | 2.5454 | -0.4337 | 2.5081 | -0.0238 | -0.5837 | -0.1266 | 0.0747 | 2.435 | 7090.5 |
| 7100.5 | 102.13 | -0.25 | 2.5408 | -0.5337 | 2.4841 | -0.0110 | -0.5786 | -0.1527 | 0.0749 | 2.298 | 7100.5 |
| 7110.5 | 104.45 | 0.04 | 2.5358 | -0.6327 | 2.4556 | 0.0019 | -0.5725 | -0.1786 | 0.0749 | 2.161 | 7110.5 |
| 7120.5 | 106.78 | 0.34 | 2.5304 | -0.7306 | 2.4226 | 0.0148 | -0.5653 | -0.2045 | 0.0748 | 2.027 | 7120.5 |
| 7130.5 | 109.13 | 0.63 | 2.5248 | -0.8272 | 2.3852 | 0.0277 | -0.5570 | -0.2301 | 0.0746 | 1.901 | 7130.5 |
| 7140.5 | 111.48 | 0.92 | 2.5187 | -0.9222 | 2.3435 | 0.0405 | -0.5476 | -0.2554 | 0.0742 | 1.784 | 7140.5 |
| 7150.5 | 113.85 | 1.21 | 2.5124 | -1.0155 | 2.2974 | 0.0532 | -0.5371 | -0.2805 | 0.0737 | 1.682 | 7150.5 |
| 7160.5 | 116.23 | 1.51 | 2.5057 | -1.1069 | 2.2470 | 0.0658 | -0.5256 | -0.3053 | 0.0731 | 1.600 | 7160.5 |
| 7170.5 | 118.62 | 1.80 | 2.4987 | -1.1963 | 2.1924 | 0.0783 | -0.5129 | -0.3296 | 0.0723 | 1.542 | 7170.5 |
| 7180.5 | 121.03 | 2.09 | 2.4915 | -1.2833 | 2.1336 | 0.0907 | -0.4992 | -0.3536 | 0.0714 | 1.510 | 7180.5 |
| 7190.5 | 123.45 | 2.37 | 2.4839 | -1.3679 | 2.0707 | 0.1029 | -0.4844 | -0.3771 | 0.0703 | 1.507 | 7190.5 |
| 7200.5 | 125.89 | 2.66 | 2.4761 | -1.4499 | 2.0039 | 0.1149 | -0.4685 | -0.4001 | 0.0690 | 1.533 | 7200.5 |
| 7210.5 | 128.34 | 2.94 | 2.4680 | -1.5291 | 1.9331 | 0.1266 | -0.4515 | -0.4225 | 0.0677 | 1.584 | 7210.5 |
| 7220.5 | 130.82 | 3.22 | 2.4597 | -1.6052 | 1.8585 | 0.1381 | -0.4335 | -0.4443 | 0.0661 | 1.657 | 7220.5 |
| 7230.5 | 133.31 | 3.49 | 2.4511 | -1.6781 | 1.7803 | 0.1494 | -0.4144 | -0.4654 | 0.0645 | 1.747 | 7230.5 |
| 7240.5 | 135.82 | 3.76 | 2.4423 | -1.7477 | 1.6984 | 0.1603 | -0.3943 | -0.4859 | 0.0627 | 1.850 | 7240.5 |
| 7250.5 | 138.35 | 4.03 | 2.4333 | -1.8137 | 1.6132 | 0.1709 | -0.3731 | -0.5055 | 0.0607 | 1.960 | 7250.5 |
| 7260.5 | 140.90 | 4.29 | 2.4242 | -1.8760 | 1.5246 | 0.1812 | -0.3510 | -0.5244 | 0.0586 | 2.076 | 7260.5 |
| 7270.5 | 143.47 | 4.54 | 2.4148 | -1.9344 | 1.4328 | 0.1911 | -0.3278 | -0.5423 | 0.0563 | 2.193 | 7270.5 |
| 7280.5 | 146.07 | 4.78 | 2.4054 | -1.9888 | 1.3380 | 0.2006 | -0.3037 | -0.5594 | 0.0539 | 2.309 | 7280.5 |
| 7290.5 | 148.68 | 5.02 | 2.3957 | -2.0389 | 1.2404 | 0.2096 | -0.2787 | -0.5754 | 0.0514 | 2.423 | 7290.5 |
| 7300.5 | 151.32 | 5.25 | 2.3860 | -2.0846 | 1.1401 | 0.2182 | -0.2527 | -0.5904 | 0.0487 | 2.532 | 7300.5 |
| 7310.5 | 153.99 | 5.47 | 2.3762 | -2.1258 | 1.0373 | 0.2263 | -0.2259 | -0.6043 | 0.0458 | 2.637 | 7310.5 |
| 7320.5 | 156.68 | 5.67 | 2.3663 | -2.1623 | 0.9323 | 0.2340 | -0.1982 | -0.6170 | 0.0429 | 2.734 | 7320.5 |
| 7330.5 | 159.39 | 5.87 | 2.3563 | -2.1939 | 0.8251 | 0.2411 | -0.1697 | -0.6284 | 0.0398 | 2.825 | 7330.5 |
| 7340.5 | 162.13 | 6.06 | 2.3464 | -2.2206 | 0.7161 | 0.2476 | -0.1405 | -0.6386 | 0.0365 | 2.908 | 7340.5 |
| 7350.5 | 164.89 | 6.23 | 2.3364 | -2.2422 | 0.6055 | 0.2536 | -0.1106 | -0.6475 | 0.0332 | 2.983 | 7350.5 |
| 7360.5 | 167.68 | 6.39 | 2.3264 | -2.2587 | 0.4934 | 0.2591 | -0.0801 | -0.6550 | 0.0297 | 3.049 | 7360.5 |
| 7370.5 | 170.49 | 6.54 | 2.3165 | -2.2698 | 0.3802 | 0.2639 | -0.0489 | -0.6610 | 0.0261 | 3.106 | 7370.5 |
| 7380.5 | 173.33 | 6.67 | 2.3066 | -2.2755 | 0.2661 | 0.2680 | -0.0173 | -0.6655 | 0.0224 | 3.155 | 7380.5 |
| 7390.5 | 176.20 | 6.79 | 2.2968 | -2.2757 | 0.1513 | 0.2715 | 0.0149 | -0.6684 | 0.0186 | 3.193 | 7390.5 |
| 7400.5 | 179.09 | 6.89 | 2.2871 | -2.2703 | 0.0362 | 0.2744 | 0.0473 | -0.6698 | 0.0147 | 3.223 | 7400.5 |
| 7410.5 | 182.00 | 6.98 | 2.2776 | -2.2594 | -0.0790 | 0.2766 | 0.0801 | -0.6694 | 0.0107 | 3.243 | 7410.5 |
| 7420.5 | 184.94 | 7.04 | 2.2682 | -2.2428 | -0.1940 | 0.2781 | 0.1131 | -0.6674 | 0.0066 | 3.253 | 7420.5 |
| 7430.5 | 187.91 | 7.09 | 2.2591 | -2.2205 | -0.3085 | 0.2789 | 0.1462 | -0.6637 | 0.0025 | 3.253 | 7430.5 |
| 7440.5 | 190.90 | 7.12 | 2.2501 | -2.1925 | -0.4223 | 0.2789 | 0.1793 | -0.6582 | -0.0017 | 3.244 | 7440.5 |
| 7450.5 | 193.92 | 7.13 | 2.2414 | -2.1588 | -0.5349 | 0.2783 | 0.2124 | -0.6509 | -0.0059 | 3.225 | 7450.5 |
| 7460.5 | 196.95 | 7.12 | 2.2329 | -2.1194 | -0.6461 | 0.2769 | 0.2453 | -0.6419 | -0.0102 | 3.197 | 7460.5 |
| 7470.5 | 200.01 | 7.09 | 2.2248 | -2.0744 | -0.7556 | 0.2748 | 0.2778 | -0.6310 | -0.0145 | 3.160 | 7470.5 |
| 7480.5 | 203.10 | 7.05 | 2.2169 | -2.0238 | -0.8631 | 0.2719 | 0.3100 | -0.6183 | -0.0188 | 3.113 | 7480.5 |
| 7490.5 | 206.20 | 6.98 | 2.2094 | -1.9678 | -0.9682 | 0.2683 | 0.3417 | -0.6037 | -0.0231 | 3.058 | 7490.5 |
| 7500.5 | 209.32 | 6.88 | 2.2023 | -1.9063 | -1.0707 | 0.2640 | 0.3728 | -0.5874 | -0.0273 | 2.994 | 7500.5 |
| 7510.5 | 212.46 | 6.77 | 2.1956 | -1.8396 | -1.1702 | 0.2589 | 0.4031 | -0.5692 | -0.0316 | 2.921 | 7510.5 |
| 7520.5 | 215.62 | 6.64 | 2.1892 | -1.7677 | -1.2665 | 0.2531 | 0.4325 | -0.5494 | -0.0357 | 2.841 | 7520.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 7530.5 | 218.79 | 6.49 | 2.1833 | -1.6908 | -1.3591 | 0.2466 | 0.4610 | -0.5277 | -0.0399 | 2.754 | 7530.5 |
| 7540.5 | 221.98 | 6.31 | 2.1779 | -1.6091 | -1.4479 | 0.2394 | 0.4884 | -0.5044 | -0.0439 | 2.660 | 7540.5 |
| 7550.5 | 225.18 | 6.12 | 2.1729 | -1.5229 | -1.5326 | 0.2315 | 0.5146 | -0.4795 | -0.0478 | 2.561 | 7550.5 |
| 7560.5 | 228.40 | 5.90 | 2.1684 | -1.4322 | -1.6128 | 0.2230 | 0.5394 | -0.4531 | -0.0516 | 2.456 | 7560.5 |
| 7570.5 | 231.62 | 5.67 | 2.1645 | -1.3374 | -1.6884 | 0.2138 | 0.5629 | -0.4251 | -0.0553 | 2.346 | 7570.5 |
| 7580.5 | 234.85 | 5.42 | 2.1610 | -1.2386 | -1.7590 | 0.2039 | 0.5848 | -0.3958 | -0.0589 | 2.233 | 7580.5 |
| 7590.5 | 238.09 | 5.14 | 2.1581 | -1.1363 | -1.8245 | 0.1935 | 0.6050 | -0.3652 | -0.0623 | 2.117 | 7590.5 |
| 7600.5 | 241.33 | 4.86 | 2.1557 | -1.0306 | -1.8846 | 0.1825 | 0.6236 | -0.3334 | -0.0655 | 2.000 | 7600.5 |
| 7610.5 | 244.58 | 4.55 | 2.1539 | -0.9218 | -1.9392 | 0.1710 | 0.6404 | -0.3005 | -0.0686 | 1.883 | 7610.5 |
| 7620.5 | 247.82 | 4.23 | 2.1526 | -0.8103 | -1.9880 | 0.1589 | 0.6553 | -0.2667 | -0.0714 | 1.766 | 7620.5 |
| 7630.5 | 251.07 | 3.90 | 2.1519 | -0.6965 | -2.0309 | 0.1464 | 0.6683 | -0.2320 | -0.0740 | 1.653 | 7630.5 |
| 7640.5 | 254.32 | 3.56 | 2.1518 | -0.5805 | -2.0677 | 0.1335 | 0.6794 | -0.1966 | -0.0764 | 1.544 | 7640.5 |
| 7650.5 | 257.56 | 3.20 | 2.1523 | -0.4628 | -2.0985 | 0.1201 | 0.6884 | -0.1606 | -0.0786 | 1.443 | 7650.5 |
| 7660.5 | 260.80 | 2.83 | 2.1533 | -0.3438 | -2.1230 | 0.1064 | 0.6953 | -0.1242 | -0.0806 | 1.351 | 7660.5 |
| 7670.5 | 264.04 | 2.46 | 2.1548 | -0.2237 | -2.1412 | 0.0924 | 0.7002 | -0.0875 | -0.0823 | 1.273 | 7670.5 |
| 7680.5 | 267.26 | 2.08 | 2.1569 | -0.1030 | -2.1531 | 0.0781 | 0.7030 | -0.0506 | -0.0838 | 1.211 | 7680.5 |
| 7690.5 | 270.48 | 1.69 | 2.1596 | 0.0180 | -2.1586 | 0.0636 | 0.7038 | -0.0137 | -0.0850 | 1.168 | 7690.5 |
| 7700.5 | 273.69 | 1.30 | 2.1628 | 0.1390 | -2.1578 | 0.0489 | 0.7024 | 0.0230 | -0.0859 | 1.149 | 7700.5 |
| 7710.5 | 276.88 | 0.90 | 2.1666 | 0.2596 | -2.1507 | 0.0341 | 0.6990 | 0.0596 | -0.0866 | 1.154 | 7710.5 |
| 7720.5 | 280.07 | 0.50 | 2.1708 | 0.3794 | -2.1373 | 0.0191 | 0.6936 | 0.0958 | -0.0871 | 1.183 | 7720.5 |
| 7730.5 | 283.24 | 0.11 | 2.1756 | 0.4981 | -2.1178 | 0.0041 | 0.6863 | 0.1314 | -0.0873 | 1.234 | 7730.5 |
| 7740.5 | 286.39 | -0.29 | 2.1808 | 0.6154 | -2.0921 | -0.0109 | 0.6770 | 0.1665 | -0.0872 | 1.305 | 7740.5 |
| 7750.5 | 289.53 | -0.68 | 2.1865 | 0.7309 | -2.0605 | -0.0259 | 0.6659 | 0.2008 | -0.0869 | 1.393 | 7750.5 |
| 7760.5 | 292.65 | -1.07 | 2.1926 | 0.8444 | -2.0231 | -0.0408 | 0.6530 | 0.2343 | -0.0864 | 1.493 | 7760.5 |
| 7770.5 | 295.76 | -1.45 | 2.1992 | 0.9555 | -1.9800 | -0.0556 | 0.6384 | 0.2668 | -0.0856 | 1.603 | 7770.5 |
| 7780.5 | 298.85 | -1.82 | 2.2062 | 1.0639 | -1.9314 | -0.0702 | 0.6221 | 0.2983 | -0.0846 | 1.720 | 7780.5 |
| 7790.5 | 301.92 | -2.19 | 2.2135 | 1.1694 | -1.8774 | -0.0847 | 0.6043 | 0.3287 | -0.0834 | 1.842 | 7790.5 |
| 7800.5 | 304.97 | -2.55 | 2.2212 | 1.2718 | -1.8184 | -0.0989 | 0.5850 | 0.3578 | -0.0819 | 1.967 | 7800.5 |
| 7810.5 | 308.00 | -2.90 | 2.2292 | 1.3706 | -1.7544 | -0.1128 | 0.5644 | 0.3857 | -0.0803 | 2.093 | 7810.5 |
| 7820.5 | 311.01 | -3.24 | 2.2375 | 1.4659 | -1.6857 | -0.1265 | 0.5425 | 0.4123 | -0.0784 | 2.219 | 7820.5 |
| 7830.5 | 314.00 | -3.57 | 2.2461 | 1.5572 | -1.6126 | -0.1398 | 0.5194 | 0.4375 | -0.0764 | 2.343 | 7830.5 |
| 7840.5 | 316.97 | -3.88 | 2.2550 | 1.6445 | -1.5353 | -0.1528 | 0.4953 | 0.4612 | -0.0742 | 2.464 | 7840.5 |
| 7850.5 | 319.91 | -4.19 | 2.2641 | 1.7276 | -1.4540 | -0.1653 | 0.4701 | 0.4835 | -0.0718 | 2.581 | 7850.5 |
| 7860.5 | 322.84 | -4.48 | 2.2733 | 1.8062 | -1.3690 | -0.1775 | 0.4441 | 0.5043 | -0.0693 | 2.693 | 7860.5 |
| 7870.5 | 325.74 | -4.75 | 2.2828 | 1.8803 | -1.2806 | -0.1891 | 0.4172 | 0.5236 | -0.0666 | 2.798 | 7870.5 |
| 7880.5 | 328.62 | -5.01 | 2.2924 | 1.9497 | -1.1890 | -0.2004 | 0.3897 | 0.5414 | -0.0638 | 2.897 | 7880.5 |
| 7890.5 | 331.48 | -5.26 | 2.3021 | 2.0143 | -1.0944 | -0.2111 | 0.3616 | 0.5576 | -0.0609 | 2.989 | 7890.5 |
| 7900.5 | 334.32 | -5.49 | 2.3120 | 2.0741 | -0.9972 | -0.2213 | 0.3329 | 0.5722 | -0.0578 | 3.071 | 7900.5 |
| 7910.5 | 337.14 | -5.71 | 2.3219 | 2.1289 | -0.8976 | -0.2310 | 0.3039 | 0.5853 | -0.0547 | 3.145 | 7910.5 |
| 7920.5 | 339.93 | -5.91 | 2.3318 | 2.1786 | -0.7959 | -0.2401 | 0.2745 | 0.5969 | -0.0515 | 3.209 | 7920.5 |
| 7930.5 | 342.70 | -6.10 | 2.3418 | 2.2233 | -0.6924 | -0.2487 | 0.2448 | 0.6069 | -0.0482 | 3.263 | 7930.5 |
| 7940.5 | 345.45 | -6.27 | 2.3518 | 2.2628 | -0.5872 | -0.2567 | 0.2149 | 0.6155 | -0.0448 | 3.306 | 7940.5 |
| 7950.5 | 348.18 | -6.42 | 2.3618 | 2.2972 | -0.4807 | -0.2641 | 0.1850 | 0.6225 | -0.0414 | 3.338 | 7950.5 |
| 7960.5 | 350.89 | -6.56 | 2.3717 | 2.3264 | -0.3731 | -0.2709 | 0.1550 | 0.6280 | -0.0379 | 3.360 | 7960.5 |
| 7970.5 | 353.57 | -6.68 | 2.3816 | 2.3505 | -0.2647 | -0.2772 | 0.1250 | 0.6321 | -0.0344 | 3.370 | 7970.5 |
| 7980.5 | 356.24 | -6.79 | 2.3913 | 2.3694 | -0.1557 | -0.2828 | 0.0951 | 0.6348 | -0.0309 | 3.369 | 7980.5 |
| 7990.5 | 358.88 | -6.88 | 2.4010 | 2.3832 | -0.0464 | -0.2878 | 0.0654 | 0.6360 | -0.0273 | 3.357 | 7990.5 |
| 8000.5 | 1.51 | -6.96 | 2.4106 | 2.3920 | 0.0630 | -0.2922 | 0.0359 | 0.6359 | -0.0237 | 3.334 | 8000.5 |
| 8010.5 | 4.11 | -7.03 | 2.4200 | 2.3956 | 0.1723 | -0.2960 | 0.0067 | 0.6345 | -0.0201 | 3.300 | 8010.5 |
| 8020.5 | 6.70 | -7.07 | 2.4292 | 2.3943 | 0.2813 | -0.2991 | -0.0223 | 0.6318 | -0.0166 | 3.256 | 8020.5 |
| 8030.5 | 9.27 | -7.11 | 2.4383 | 2.3880 | 0.3896 | -0.3017 | -0.0508 | 0.6278 | -0.0130 | 3.201 | 8030.5 |
| 8040.5 | 11.81 | -7.13 | 2.4471 | 2.3768 | 0.4972 | -0.3036 | -0.0789 | 0.6225 | -0.0094 | 3.137 | 8040.5 |
| 8050.5 | 14.34 | -7.13 | 2.4558 | 2.3608 | 0.6037 | -0.3049 | -0.1066 | 0.6161 | -0.0058 | 3.063 | 8050.5 |
| 8060.5 | 16.86 | -7.12 | 2.4642 | 2.3402 | 0.7091 | -0.3056 | -0.1337 | 0.6085 | -0.0023 | 2.980 | 8060.5 |
| 8070.5 | 19.35 | -7.10 | 2.4724 | 2.3148 | 0.8130 | -0.3057 | -0.1604 | 0.5998 | 0.0012 | 2.888 | 8070.5 |
| 8080.5 | 21.83 | -7.07 | 2.4804 | 2.2850 | 0.9154 | -0.3052 | -0.1864 | 0.5900 | 0.0046 | 2.789 | 8080.5 |
| 8090.5 | 24.29 | -7.02 | 2.4881 | 2.2507 | 1.0160 | -0.3041 | -0.2119 | 0.5792 | 0.0081 | 2.683 | 8090.5 |
| 8100.5 | 26.74 | -6.96 | 2.4955 | 2.2121 | 1.1146 | -0.3024 | -0.2367 | 0.5673 | 0.0114 | 2.572 | 8100.5 |
| 8110.5 | 29.17 | -6.89 | 2.5026 | 2.1693 | 1.2111 | -0.3002 | -0.2608 | 0.5545 | 0.0148 | 2.455 | 8110.5 |
| 8120.5 | 31.59 | -6.81 | 2.5094 | 2.1224 | 1.3053 | -0.2974 | -0.2843 | 0.5408 | 0.0180 | 2.336 | 8120.5 |
| 8130.5 | 34.00 | -6.71 | 2.5159 | 2.0716 | 1.3971 | -0.2940 | -0.3070 | 0.5261 | 0.0212 | 2.216 | 8130.5 |
| 8140.5 | 36.39 | -6.60 | 2.5221 | 2.0168 | 1.4863 | -0.2901 | -0.3291 | 0.5106 | 0.0244 | 2.096 | 8140.5 |
| 8150.5 | 38.77 | -6.49 | 2.5279 | 1.9584 | 1.5727 | -0.2856 | -0.3503 | 0.4942 | 0.0274 | 1.980 | 8150.5 |
| 8160.5 | 41.13 | -6.36 | 2.5334 | 1.8963 | 1.6563 | -0.2806 | -0.3708 | 0.4771 | 0.0304 | 1.871 | 8160.5 |
| 8170.5 | 43.49 | -6.22 | 2.5386 | 1.8309 | 1.7368 | -0.2751 | -0.3904 | 0.4592 | 0.0334 | 1.773 | 8170.5 |
| 8180.5 | 45.84 | -6.07 | 2.5434 | 1.7621 | 1.8142 | -0.2691 | -0.4093 | 0.4406 | 0.0362 | 1.690 | 8180.5 |
| 8190.5 | 48.17 | -5.92 | 2.5478 | 1.6901 | 1.8884 | -0.2627 | -0.4273 | 0.4213 | 0.0390 | 1.627 | 8190.5 |
| 8200.5 | 50.50 | -5.75 | 2.5519 | 1.6151 | 1.9591 | -0.2557 | -0.4444 | 0.4013 | 0.0417 | 1.587 | 8200.5 |
| 8210.5 | 52.82 | -5.58 | 2.5556 | 1.5372 | 2.0264 | -0.2483 | -0.4607 | 0.3807 | 0.0443 | 1.574 | 8210.5 |
| 8220.5 | 55.13 | -5.39 | 2.5589 | 1.4567 | 2.0901 | -0.2405 | -0.4761 | 0.3596 | 0.0468 | 1.590 | 8220.5 |
| 8230.5 | 57.43 | -5.20 | 2.5619 | 1.3735 | 2.1501 | -0.2322 | -0.4906 | 0.3378 | 0.0492 | 1.633 | 8230.5 |
| 8240.5 | 59.73 | -5.00 | 2.5645 | 1.2879 | 2.2063 | -0.2236 | -0.5042 | 0.3156 | 0.0516 | 1.702 | 8240.5 |
| 8250.5 | 62.02 | -4.79 | 2.5666 | 1.2001 | 2.2586 | -0.2145 | -0.5169 | 0.2928 | 0.0538 | 1.792 | 8250.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 8260.5 | 64.30 | -4.58 | 2.5684 | 1.1101 | 2.3070 | -0.2050 | -0.5286 | 0.2696 | 0.0559 | 1.900 | 8260.5 |
| 8270.5 | 66.59 | -4.36 | 2.5698 | 1.0182 | 2.3514 | -0.1953 | -0.5394 | 0.2460 | 0.0580 | 2.020 | 8270.5 |
| 8280.5 | 68.86 | -4.13 | 2.5708 | 0.9246 | 2.3916 | -0.1851 | -0.5492 | 0.2220 | 0.0599 | 2.148 | 8280.5 |
| 8290.5 | 71.14 | -3.89 | 2.5714 | 0.8293 | 2.4277 | -0.1747 | -0.5581 | 0.1976 | 0.0617 | 2.281 | 8290.5 |
| 8300.5 | 73.41 | -3.65 | 2.5716 | 0.7326 | 2.4596 | -0.1639 | -0.5660 | 0.1729 | 0.0634 | 2.416 | 8300.5 |
| 8310.5 | 75.69 | -3.41 | 2.5714 | 0.6346 | 2.4872 | -0.1528 | -0.5729 | 0.1478 | 0.0650 | 2.550 | 8310.5 |
| 8320.5 | 77.96 | -3.16 | 2.5708 | 0.5355 | 2.5104 | -0.1415 | -0.5789 | 0.1225 | 0.0665 | 2.680 | 8320.5 |
| 8330.5 | 80.23 | -2.90 | 2.5698 | 0.4355 | 2.5293 | -0.1300 | -0.5838 | 0.0970 | 0.0679 | 2.805 | 8330.5 |
| 8340.5 | 82.50 | -2.64 | 2.5684 | 0.3348 | 2.5438 | -0.1182 | -0.5877 | 0.0713 | 0.0691 | 2.924 | 8340.5 |
| 8350.5 | 84.78 | -2.37 | 2.5667 | 0.2334 | 2.5538 | -0.1062 | -0.5906 | 0.0454 | 0.0703 | 3.034 | 8350.5 |
| 8360.5 | 87.06 | -2.10 | 2.5645 | 0.1316 | 2.5594 | -0.0940 | -0.5924 | 0.0193 | 0.0713 | 3.135 | 8360.5 |
| 8370.5 | 89.34 | -1.83 | 2.5619 | 0.0296 | 2.5605 | -0.0817 | -0.5933 | -0.0068 | 0.0722 | 3.227 | 8370.5 |
| 8380.5 | 91.62 | -1.55 | 2.5590 | -0.0724 | 2.5570 | -0.0692 | -0.5930 | -0.0331 | 0.0730 | 3.307 | 8380.5 |
| 8390.5 | 93.91 | -1.27 | 2.5557 | -0.1744 | 2.5491 | -0.0566 | -0.5918 | -0.0593 | 0.0736 | 3.377 | 8390.5 |
| 8400.5 | 96.21 | -0.98 | 2.5520 | -0.2760 | 2.5366 | -0.0438 | -0.5894 | -0.0856 | 0.0741 | 3.435 | 8400.5 |
| 8410.5 | 98.51 | -0.70 | 2.5479 | -0.3771 | 2.5196 | -0.0311 | -0.5861 | -0.1118 | 0.0745 | 3.481 | 8410.5 |
| 8420.5 | 100.82 | -0.41 | 2.5435 | -0.4776 | 2.4981 | -0.0182 | -0.5816 | -0.1380 | 0.0748 | 3.515 | 8420.5 |
| 8430.5 | 103.14 | -0.12 | 2.5387 | -0.5772 | 2.4722 | -0.0053 | -0.5761 | -0.1640 | 0.0749 | 3.537 | 8430.5 |
| 8440.5 | 105.47 | 0.17 | 2.5335 | -0.6757 | 2.4417 | 0.0076 | -0.5695 | -0.1900 | 0.0749 | 3.547 | 8440.5 |
| 8450.5 | 107.81 | 0.46 | 2.5280 | -0.7730 | 2.4068 | 0.0204 | -0.5618 | -0.2157 | 0.0748 | 3.544 | 8450.5 |
| 8460.5 | 110.15 | 0.76 | 2.5222 | -0.8689 | 2.3675 | 0.0333 | -0.5530 | -0.2412 | 0.0745 | 3.529 | 8460.5 |
| 8470.5 | 112.51 | 1.05 | 2.5160 | -0.9632 | 2.3238 | 0.0460 | -0.5431 | -0.2665 | 0.0740 | 3.502 | 8470.5 |
| 8480.5 | 114.89 | 1.34 | 2.5095 | -1.0557 | 2.2759 | 0.0587 | -0.5322 | -0.2914 | 0.0735 | 3.463 | 8480.5 |
| 8490.5 | 117.27 | 1.63 | 2.5027 | -1.1463 | 2.2236 | 0.0713 | -0.5202 | -0.3160 | 0.0728 | 3.412 | 8490.5 |
| 8500.5 | 119.67 | 1.92 | 2.4956 | -1.2346 | 2.1672 | 0.0838 | -0.5070 | -0.3402 | 0.0719 | 3.350 | 8500.5 |
| 8510.5 | 122.08 | 2.21 | 2.4882 | -1.3207 | 2.1066 | 0.0960 | -0.4928 | -0.3639 | 0.0709 | 3.277 | 8510.5 |
| 8520.5 | 124.51 | 2.50 | 2.4805 | -1.4041 | 2.0420 | 0.1081 | -0.4775 | -0.3872 | 0.0698 | 3.193 | 8520.5 |
| 8530.5 | 126.96 | 2.78 | 2.4726 | -1.4849 | 1.9734 | 0.1200 | -0.4612 | -0.4100 | 0.0685 | 3.099 | 8530.5 |
| 8540.5 | 129.42 | 3.06 | 2.4644 | -1.5628 | 1.9010 | 0.1317 | -0.4437 | -0.4321 | 0.0670 | 2.996 | 8540.5 |
| 8550.5 | 131.90 | 3.34 | 2.4559 | -1.6375 | 1.8248 | 0.1431 | -0.4253 | -0.4536 | 0.0654 | 2.884 | 8550.5 |
| 8560.5 | 134.40 | 3.61 | 2.4473 | -1.7090 | 1.7449 | 0.1542 | -0.4057 | -0.4745 | 0.0637 | 2.765 | 8560.5 |
| 8570.5 | 136.92 | 3.88 | 2.4384 | -1.7771 | 1.6616 | 0.1650 | -0.3851 | -0.4946 | 0.0618 | 2.639 | 8570.5 |
| 8580.5 | 139.46 | 4.14 | 2.4294 | -1.8415 | 1.5748 | 0.1755 | -0.3635 | -0.5139 | 0.0598 | 2.507 | 8580.5 |
| 8590.5 | 142.02 | 4.40 | 2.4201 | -1.9021 | 1.4848 | 0.1856 | -0.3410 | -0.5324 | 0.0576 | 2.372 | 8590.5 |
| 8600.5 | 144.61 | 4.65 | 2.4107 | -1.9587 | 1.3917 | 0.1953 | -0.3174 | -0.5499 | 0.0553 | 2.234 | 8600.5 |
| 8610.5 | 147.21 | 4.89 | 2.4012 | -2.0112 | 1.2956 | 0.2046 | -0.2929 | -0.5665 | 0.0528 | 2.096 | 8610.5 |
| 8620.5 | 149.84 | 5.12 | 2.3915 | -2.0594 | 1.1968 | 0.2134 | -0.2674 | -0.5821 | 0.0502 | 1.961 | 8620.5 |
| 8630.5 | 152.49 | 5.34 | 2.3817 | -2.1032 | 1.0954 | 0.2218 | -0.2411 | -0.5966 | 0.0474 | 1.830 | 8630.5 |
| 8640.5 | 155.16 | 5.56 | 2.3719 | -2.1423 | 0.9916 | 0.2297 | -0.2139 | -0.6100 | 0.0446 | 1.707 | 8640.5 |
| 8650.5 | 157.86 | 5.76 | 2.3619 | -2.1767 | 0.8856 | 0.2372 | -0.1858 | -0.6221 | 0.0415 | 1.595 | 8650.5 |
| 8660.5 | 160.58 | 5.96 | 2.3520 | -2.2062 | 0.7777 | 0.2440 | -0.1570 | -0.6331 | 0.0384 | 1.499 | 8660.5 |
| 8670.5 | 163.33 | 6.14 | 2.3420 | -2.2307 | 0.6679 | 0.2503 | -0.1275 | -0.6427 | 0.0351 | 1.422 | 8670.5 |
| 8680.5 | 166.11 | 6.30 | 2.3320 | -2.2501 | 0.5566 | 0.2561 | -0.0973 | -0.6509 | 0.0317 | 1.369 | 8680.5 |
| 8690.5 | 168.90 | 6.46 | 2.3220 | -2.2642 | 0.4440 | 0.2612 | -0.0665 | -0.6578 | 0.0281 | 1.340 | 8690.5 |
| 8700.5 | 171.73 | 6.60 | 2.3121 | -2.2729 | 0.3304 | 0.2658 | -0.0351 | -0.6631 | 0.0245 | 1.338 | 8700.5 |
| 8710.5 | 174.58 | 6.73 | 2.3023 | -2.2762 | 0.2160 | 0.2696 | -0.0033 | -0.6670 | 0.0207 | 1.362 | 8710.5 |
| 8720.5 | 177.46 | 6.84 | 2.2926 | -2.2740 | 0.1010 | 0.2729 | 0.0290 | -0.6692 | 0.0169 | 1.409 | 8720.5 |
| 8730.5 | 180.36 | 6.93 | 2.2830 | -2.2662 | -0.0142 | 0.2754 | 0.0616 | -0.6698 | 0.0129 | 1.475 | 8730.5 |
| 8740.5 | 183.29 | 7.01 | 2.2735 | -2.2528 | -0.1293 | 0.2773 | 0.0945 | -0.6688 | 0.0089 | 1.555 | 8740.5 |
| 8750.5 | 186.24 | 7.07 | 2.2642 | -2.2337 | -0.2442 | 0.2785 | 0.1276 | -0.6660 | 0.0048 | 1.647 | 8750.5 |
| 8760.5 | 189.22 | 7.11 | 2.2551 | -2.2089 | -0.3584 | 0.2790 | 0.1607 | -0.6615 | 0.0007 | 1.746 | 8760.5 |
| 8770.5 | 192.22 | 7.13 | 2.2463 | -2.1784 | -0.4717 | 0.2787 | 0.1938 | -0.6553 | -0.0035 | 1.850 | 8770.5 |
| 8780.5 | 195.24 | 7.13 | 2.2377 | -2.1422 | -0.5837 | 0.2778 | 0.2268 | -0.6472 | -0.0078 | 1.957 | 8780.5 |
| 8790.5 | 198.29 | 7.11 | 2.2293 | -2.1004 | -0.6943 | 0.2761 | 0.2596 | -0.6373 | -0.0121 | 2.064 | 8790.5 |
| 8800.5 | 201.36 | 7.08 | 2.2213 | -2.0530 | -0.8029 | 0.2736 | 0.2920 | -0.6256 | -0.0164 | 2.169 | 8800.5 |
| 8810.5 | 204.45 | 7.02 | 2.2136 | -2.0000 | -0.9094 | 0.2704 | 0.3240 | -0.6121 | -0.0207 | 2.273 | 8810.5 |
| 8820.5 | 207.56 | 6.94 | 2.2063 | -1.9415 | -1.0134 | 0.2665 | 0.3554 | -0.5968 | -0.0249 | 2.373 | 8820.5 |
| 8830.5 | 210.69 | 6.84 | 2.1993 | -1.8778 | -1.1146 | 0.2619 | 0.3861 | -0.5797 | -0.0292 | 2.469 | 8830.5 |
| 8840.5 | 213.84 | 6.72 | 2.1927 | -1.8087 | -1.2128 | 0.2565 | 0.4161 | -0.5608 | -0.0334 | 2.560 | 8840.5 |
| 8850.5 | 217.01 | 6.57 | 2.1866 | -1.7347 | -1.3075 | 0.2504 | 0.4451 | -0.5401 | -0.0375 | 2.646 | 8850.5 |
| 8860.5 | 220.19 | 6.41 | 2.1809 | -1.6557 | -1.3985 | 0.2436 | 0.4731 | -0.5177 | -0.0416 | 2.727 | 8860.5 |
| 8870.5 | 223.38 | 6.23 | 2.1757 | -1.5719 | -1.4855 | 0.2360 | 0.5000 | -0.4937 | -0.0456 | 2.801 | 8870.5 |
| 8880.5 | 226.59 | 6.03 | 2.1709 | -1.4837 | -1.5683 | 0.2279 | 0.5256 | -0.4681 | -0.0495 | 2.868 | 8880.5 |
| 8890.5 | 229.80 | 5.80 | 2.1666 | -1.3912 | -1.6465 | 0.2190 | 0.5499 | -0.4410 | -0.0533 | 2.929 | 8890.5 |
| 8900.5 | 233.03 | 5.56 | 2.1629 | -1.2946 | -1.7199 | 0.2095 | 0.5726 | -0.4125 | -0.0569 | 2.983 | 8900.5 |
| 8910.5 | 236.26 | 5.30 | 2.1597 | -1.1943 | -1.7883 | 0.1994 | 0.5938 | -0.3826 | -0.0604 | 3.029 | 8910.5 |
| 8920.5 | 239.50 | 5.02 | 2.1570 | -1.0904 | -1.8515 | 0.1888 | 0.6134 | -0.3514 | -0.0637 | 3.067 | 8920.5 |
| 8930.5 | 242.75 | 4.73 | 2.1549 | -0.9833 | -1.9092 | 0.1775 | 0.6312 | -0.3191 | -0.0669 | 3.097 | 8930.5 |
| 8940.5 | 246.00 | 4.42 | 2.1533 | -0.8734 | -1.9612 | 0.1658 | 0.6472 | -0.2858 | -0.0698 | 3.118 | 8940.5 |
| 8950.5 | 249.24 | 4.09 | 2.1523 | -0.7608 | -2.0075 | 0.1535 | 0.6613 | -0.2516 | -0.0726 | 3.131 | 8950.5 |
| 8960.5 | 252.49 | 3.75 | 2.1518 | -0.6460 | -2.0477 | 0.1408 | 0.6734 | -0.2166 | -0.0751 | 3.136 | 8960.5 |
| 8970.5 | 255.74 | 3.40 | 2.1519 | -0.5292 | -2.0819 | 0.1277 | 0.6836 | -0.1809 | -0.0774 | 3.131 | 8970.5 |
| 8980.5 | 258.98 | 3.04 | 2.1526 | -0.4109 | -2.1100 | 0.1142 | 0.6917 | -0.1447 | -0.0795 | 3.118 | 8980.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 8990.5 | 262.22 | 2.67 | 2.1539 | -0.2914 | -2.1317 | 0.1003 | 0.6977 | -0.1082 | -0.0814 | 3.096 | 8990.5 |
| 9000.5 | 265.45 | 2.29 | 2.1557 | -0.1710 | -2.1472 | 0.0862 | 0.7017 | -0.0714 | -0.0830 | 3.066 | 9000.5 |
| 9010.5 | 268.67 | 1.91 | 2.1581 | -0.0501 | -2.1563 | 0.0718 | 0.7036 | -0.0345 | -0.0843 | 3.026 | 9010.5 |
| 9020.5 | 271.88 | 1.52 | 2.1610 | 0.0710 | -2.1590 | 0.0572 | 0.7034 | 0.0024 | -0.0854 | 2.978 | 9020.5 |
| 9030.5 | 275.09 | 1.12 | 2.1644 | 0.1918 | -2.1555 | 0.0424 | 0.7012 | 0.0391 | -0.0863 | 2.922 | 9030.5 |
| 9040.5 | 278.28 | 0.73 | 2.1684 | 0.3121 | -2.1456 | 0.0275 | 0.6969 | 0.0755 | -0.0869 | 2.859 | 9040.5 |
| 9050.5 | 281.45 | 0.33 | 2.1728 | 0.4315 | -2.1295 | 0.0126 | 0.6907 | 0.1114 | -0.0872 | 2.787 | 9050.5 |
| 9060.5 | 284.62 | -0.06 | 2.1778 | 0.5496 | -2.1073 | -0.0025 | 0.6825 | 0.1469 | -0.0873 | 2.709 | 9060.5 |
| 9070.5 | 287.77 | -0.46 | 2.1832 | 0.6662 | -2.0790 | -0.0175 | 0.6724 | 0.1816 | -0.0871 | 2.624 | 9070.5 |
| 9080.5 | 290.90 | -0.85 | 2.1891 | 0.7809 | -2.0449 | -0.0324 | 0.6605 | 0.2156 | -0.0867 | 2.534 | 9080.5 |
| 9090.5 | 294.02 | -1.23 | 2.1955 | 0.8933 | -2.0049 | -0.0473 | 0.6468 | 0.2486 | -0.0861 | 2.438 | 9090.5 |
| 9100.5 | 297.11 | -1.61 | 2.2022 | 1.0033 | -1.9594 | -0.0620 | 0.6315 | 0.2807 | -0.0852 | 2.338 | 9100.5 |
| 9110.5 | 300.19 | -1.99 | 2.2093 | 1.1105 | -1.9084 | -0.0766 | 0.6145 | 0.3117 | -0.0841 | 2.233 | 9110.5 |
| 9120.5 | 303.26 | -2.35 | 2.2168 | 1.2146 | -1.8522 | -0.0909 | 0.5961 | 0.3416 | -0.0827 | 2.127 | 9120.5 |
| 9130.5 | 306.30 | -2.71 | 2.2246 | 1.3155 | -1.7910 | -0.1050 | 0.5762 | 0.3702 | -0.0812 | 2.018 | 9130.5 |
| 9140.5 | 309.32 | -3.05 | 2.2328 | 1.4128 | -1.7249 | -0.1189 | 0.5550 | 0.3975 | -0.0795 | 1.910 | 9140.5 |
| 9150.5 | 312.32 | -3.39 | 2.2413 | 1.5063 | -1.6543 | -0.1324 | 0.5325 | 0.4235 | -0.0775 | 1.803 | 9150.5 |
| 9160.5 | 315.30 | -3.71 | 2.2500 | 1.5959 | -1.5793 | -0.1455 | 0.5090 | 0.4481 | -0.0754 | 1.699 | 9160.5 |
| 9170.5 | 318.26 | -4.02 | 2.2589 | 1.6814 | -1.5002 | -0.1583 | 0.4844 | 0.4712 | -0.0731 | 1.601 | 9170.5 |
| 9180.5 | 321.20 | -4.32 | 2.2681 | 1.7625 | -1.4173 | -0.1707 | 0.4588 | 0.4928 | -0.0707 | 1.511 | 9180.5 |
| 9190.5 | 324.11 | -4.60 | 2.2775 | 1.8392 | -1.3307 | -0.1826 | 0.4324 | 0.5130 | -0.0681 | 1.434 | 9190.5 |
| 9200.5 | 327.01 | -4.87 | 2.2870 | 1.9112 | -1.2409 | -0.1941 | 0.4053 | 0.5316 | -0.0654 | 1.372 | 9200.5 |
| 9210.5 | 329.88 | -5.12 | 2.2967 | 1.9786 | -1.1479 | -0.2051 | 0.3775 | 0.5487 | -0.0625 | 1.330 | 9210.5 |
| 9220.5 | 332.73 | -5.36 | 2.3064 | 2.0411 | -1.0522 | -0.2156 | 0.3491 | 0.5642 | -0.0596 | 1.310 | 9220.5 |
| 9230.5 | 335.56 | -5.59 | 2.3163 | 2.0987 | -0.9539 | -0.2256 | 0.3203 | 0.5782 | -0.0565 | 1.316 | 9230.5 |
| 9240.5 | 338.36 | -5.80 | 2.3262 | 2.1512 | -0.8534 | -0.2350 | 0.2910 | 0.5906 | -0.0533 | 1.347 | 9240.5 |
| 9250.5 | 341.15 | -5.99 | 2.3362 | 2.1988 | -0.7508 | -0.2439 | 0.2615 | 0.6015 | -0.0501 | 1.402 | 9250.5 |
| 9260.5 | 343.91 | -6.17 | 2.3462 | 2.2412 | -0.6465 | -0.2523 | 0.2317 | 0.6109 | -0.0467 | 1.478 | 9260.5 |
| 9270.5 | 346.65 | -6.34 | 2.3562 | 2.2785 | -0.5407 | -0.2600 | 0.2018 | 0.6187 | -0.0434 | 1.573 | 9270.5 |
| 9280.5 | 349.37 | -6.48 | 2.3661 | 2.3106 | -0.4337 | -0.2672 | 0.1718 | 0.6251 | -0.0399 | 1.683 | 9280.5 |
| 9290.5 | 352.07 | -6.62 | 2.3760 | 2.3376 | -0.3258 | -0.2737 | 0.1418 | 0.6300 | -0.0364 | 1.804 | 9290.5 |
| 9300.5 | 354.74 | -6.73 | 2.3858 | 2.3594 | -0.2171 | -0.2797 | 0.1119 | 0.6334 | -0.0329 | 1.933 | 9300.5 |
| 9310.5 | 357.40 | -6.83 | 2.3956 | 2.3761 | -0.1079 | -0.2851 | 0.0821 | 0.6355 | -0.0293 | 2.066 | 9310.5 |
| 9320.5 | 0.04 | -6.92 | 2.4052 | 2.3877 | 0.0015 | -0.2898 | 0.0525 | 0.6362 | -0.0258 | 2.203 | 9320.5 |
| 9330.5 | 2.65 | -6.99 | 2.4147 | 2.3942 | 0.1109 | -0.2939 | 0.0231 | 0.6355 | -0.0222 | 2.339 | 9330.5 |
| 9340.5 | 5.25 | -7.05 | 2.4240 | 2.3956 | 0.2200 | -0.2974 | -0.0060 | 0.6335 | -0.0186 | 2.474 | 9340.5 |
| 9350.5 | 7.83 | -7.09 | 2.4332 | 2.3921 | 0.3288 | -0.3003 | -0.0348 | 0.6302 | -0.0150 | 2.606 | 9350.5 |
| 9360.5 | 10.38 | -7.12 | 2.4422 | 2.3837 | 0.4368 | -0.3026 | -0.0631 | 0.6256 | -0.0114 | 2.733 | 9360.5 |
| 9370.5 | 12.92 | -7.13 | 2.4510 | 2.3704 | 0.5439 | -0.3042 | -0.0911 | 0.6199 | -0.0078 | 2.854 | 9370.5 |
| 9380.5 | 15.45 | -7.13 | 2.4595 | 2.3524 | 0.6500 | -0.3053 | -0.1185 | 0.6129 | -0.0043 | 2.967 | 9380.5 |
| 9390.5 | 17.95 | -7.12 | 2.4679 | 2.3296 | 0.7547 | -0.3057 | -0.1455 | 0.6048 | -0.0008 | 3.072 | 9390.5 |
| 9400.5 | 20.44 | -7.09 | 2.4760 | 2.3023 | 0.8580 | -0.3056 | -0.1718 | 0.5957 | 0.0027 | 3.167 | 9400.5 |
| 9410.5 | 22.91 | -7.05 | 2.4838 | 2.2706 | 0.9596 | -0.3048 | -0.1976 | 0.5854 | 0.0061 | 3.253 | 9410.5 |
| 9420.5 | 25.37 | -7.00 | 2.4913 | 2.2344 | 1.0594 | -0.3034 | -0.2228 | 0.5741 | 0.0095 | 3.328 | 9420.5 |
| 9430.5 | 27.81 | -6.93 | 2.4986 | 2.1939 | 1.1571 | -0.3015 | -0.2473 | 0.5618 | 0.0129 | 3.391 | 9430.5 |
| 9440.5 | 30.23 | -6.85 | 2.5056 | 2.1493 | 1.2526 | -0.2990 | -0.2712 | 0.5486 | 0.0162 | 3.443 | 9440.5 |
| 9450.5 | 32.65 | -6.77 | 2.5123 | 2.1007 | 1.3458 | -0.2959 | -0.2943 | 0.5345 | 0.0194 | 3.483 | 9450.5 |
| 9460.5 | 35.04 | -6.67 | 2.5186 | 2.0481 | 1.4364 | -0.2923 | -0.3168 | 0.5194 | 0.0226 | 3.511 | 9460.5 |
| 9470.5 | 37.43 | -6.55 | 2.5247 | 1.9917 | 1.5244 | -0.2882 | -0.3384 | 0.5035 | 0.0257 | 3.527 | 9470.5 |
| 9480.5 | 39.80 | -6.43 | 2.5304 | 1.9317 | 1.6096 | -0.2835 | -0.3593 | 0.4868 | 0.0288 | 3.530 | 9480.5 |
| 9490.5 | 42.17 | -6.30 | 2.5357 | 1.8681 | 1.6919 | -0.2783 | -0.3795 | 0.4694 | 0.0317 | 3.521 | 9490.5 |
| 9500.5 | 44.52 | -6.16 | 2.5407 | 1.8012 | 1.7711 | -0.2726 | -0.3988 | 0.4512 | 0.0346 | 3.500 | 9500.5 |
| 9510.5 | 46.86 | -6.01 | 2.5454 | 1.7310 | 1.8471 | -0.2664 | -0.4172 | 0.4322 | 0.0375 | 3.467 | 9510.5 |
| 9520.5 | 49.19 | -5.85 | 2.5497 | 1.6577 | 1.9198 | -0.2597 | -0.4349 | 0.4126 | 0.0402 | 3.423 | 9520.5 |
| 9530.5 | 51.51 | -5.68 | 2.5536 | 1.5814 | 1.9890 | -0.2525 | -0.4516 | 0.3924 | 0.0428 | 3.366 | 9530.5 |
| 9540.5 | 53.83 | -5.50 | 2.5571 | 1.5023 | 2.0547 | -0.2450 | -0.4675 | 0.3715 | 0.0454 | 3.299 | 9540.5 |
| 9550.5 | 56.13 | -5.31 | 2.5603 | 1.4206 | 2.1168 | -0.2369 | -0.4825 | 0.3501 | 0.0479 | 3.221 | 9550.5 |
| 9560.5 | 58.43 | -5.11 | 2.5631 | 1.3363 | 2.1752 | -0.2285 | -0.4967 | 0.3282 | 0.0503 | 3.133 | 9560.5 |
| 9570.5 | 60.73 | -4.91 | 2.5655 | 1.2498 | 2.2297 | -0.2196 | -0.5099 | 0.3057 | 0.0526 | 3.036 | 9570.5 |
| 9580.5 | 63.02 | -4.70 | 2.5675 | 1.1610 | 2.2803 | -0.2104 | -0.5221 | 0.2827 | 0.0547 | 2.929 | 9580.5 |
| 9590.5 | 65.30 | -4.48 | 2.5691 | 1.0702 | 2.3269 | -0.2008 | -0.5334 | 0.2593 | 0.0568 | 2.815 | 9590.5 |
| 9600.5 | 67.58 | -4.26 | 2.5703 | 0.9775 | 2.3695 | -0.1909 | -0.5438 | 0.2355 | 0.0588 | 2.695 | 9600.5 |
| 9610.5 | 69.86 | -4.03 | 2.5711 | 0.8831 | 2.4079 | -0.1806 | -0.5533 | 0.2113 | 0.0607 | 2.569 | 9610.5 |
| 9620.5 | 72.13 | -3.79 | 2.5715 | 0.7872 | 2.4422 | -0.1700 | -0.5617 | 0.1868 | 0.0625 | 2.439 | 9620.5 |
| 9630.5 | 74.41 | -3.55 | 2.5716 | 0.6899 | 2.4722 | -0.1591 | -0.5692 | 0.1619 | 0.0641 | 2.307 | 9630.5 |
| 9640.5 | 76.68 | -3.30 | 2.5712 | 0.5914 | 2.4979 | -0.1479 | -0.5757 | 0.1368 | 0.0657 | 2.176 | 9640.5 |
| 9650.5 | 78.95 | -3.04 | 2.5704 | 0.4919 | 2.5192 | -0.1365 | -0.5811 | 0.1114 | 0.0671 | 2.048 | 9650.5 |
| 9660.5 | 81.22 | -2.78 | 2.5693 | 0.3915 | 2.5362 | -0.1248 | -0.5856 | 0.0858 | 0.0685 | 1.927 | 9660.5 |
| 9670.5 | 83.50 | -2.52 | 2.5677 | 0.2905 | 2.5487 | -0.1130 | -0.5891 | 0.0600 | 0.0697 | 1.817 | 9670.5 |
| 9680.5 | 85.77 | -2.25 | 2.5658 | 0.1889 | 2.5568 | -0.1009 | -0.5915 | 0.0340 | 0.0707 | 1.723 | 9680.5 |
| 9690.5 | 88.05 | -1.98 | 2.5634 | 0.0870 | 2.5604 | -0.0886 | -0.5929 | 0.0079 | 0.0717 | 1.648 | 9690.5 |
| 9700.5 | 90.34 | -1.71 | 2.5607 | -0.0150 | 2.5595 | -0.0762 | -0.5933 | -0.0183 | 0.0726 | 1.597 | 9700.5 |
| 9710.5 | 92.62 | -1.43 | 2.5576 | -0.1171 | 2.5541 | -0.0637 | -0.5926 | -0.0445 | 0.0733 | 1.575 | 9710.5 |
| 244 | | | | | | | | | | | 244 |

| JULIAN DATE | LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | HELIOCENTRIC ECLIPTIC POSITION CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 244 | | | | | | | | | | | 244 |
| 9720.5 | 94.92 | -1.14 | 2.5541 | -0.2189 | 2.5442 | -0.0510 | -0.5909 | -0.0708 | 0.0739 | 1.582 | 9720.5 |
| 9730.5 | 97.22 | -0.86 | 2.5502 | -0.3203 | 2.5297 | -0.0383 | -0.5881 | -0.0971 | 0.0743 | 1.617 | 9730.5 |
| 9740.5 | 99.52 | -0.57 | 2.5460 | -0.4212 | 2.5108 | -0.0254 | -0.5842 | -0.1233 | 0.0747 | 1.678 | 9740.5 |
| 9750.5 | 101.84 | -0.28 | 2.5414 | -0.5213 | 2.4873 | -0.0126 | -0.5793 | -0.1494 | 0.0749 | 1.761 | 9750.5 |
| 9760.5 | 104.16 | 0.01 | 2.5364 | -0.6204 | 2.4594 | 0.0003 | -0.5733 | -0.1754 | 0.0749 | 1.861 | 9760.5 |
| 9770.5 | 106.49 | 0.30 | 2.5311 | -0.7184 | 2.4270 | 0.0132 | -0.5662 | -0.2012 | 0.0749 | 1.973 | 9770.5 |
| 9780.5 | 108.83 | 0.59 | 2.5255 | -0.8152 | 2.3902 | 0.0261 | -0.5581 | -0.2269 | 0.0746 | 2.093 | 9780.5 |
| 9790.5 | 111.19 | 0.88 | 2.5195 | -0.9104 | 2.3489 | 0.0389 | -0.5488 | -0.2523 | 0.0743 | 2.217 | 9790.5 |
| 9800.5 | 113.55 | 1.18 | 2.5132 | -1.0039 | 2.3034 | 0.0516 | -0.5385 | -0.2774 | 0.0738 | 2.343 | 9800.5 |
| 9810.5 | 115.93 | 1.47 | 2.5066 | -1.0956 | 2.2535 | 0.0643 | -0.5271 | -0.3022 | 0.0732 | 2.467 | 9810.5 |
| 9820.5 | 118.32 | 1.76 | 2.4996 | -1.1852 | 2.1994 | 0.0768 | -0.5145 | -0.3266 | 0.0724 | 2.588 | 9820.5 |
| 9830.5 | 120.72 | 2.05 | 2.4924 | -1.2726 | 2.1412 | 0.0892 | -0.5009 | -0.3506 | 0.0715 | 2.704 | 9830.5 |
| 9840.5 | 123.15 | 2.34 | 2.4849 | -1.3575 | 2.0788 | 0.1014 | -0.4863 | -0.3742 | 0.0704 | 2.813 | 9840.5 |
| 9850.5 | 125.58 | 2.62 | 2.4771 | -1.4398 | 2.0125 | 0.1134 | -0.4705 | -0.3972 | 0.0692 | 2.915 | 9850.5 |
| 9860.5 | 128.04 | 2.91 | 2.4690 | -1.5193 | 1.9422 | 0.1252 | -0.4537 | -0.4197 | 0.0679 | 3.009 | 9860.5 |
| 9870.5 | 130.51 | 3.18 | 2.4607 | -1.5959 | 1.8681 | 0.1367 | -0.4358 | -0.4416 | 0.0663 | 3.093 | 9870.5 |
| 9880.5 | 133.00 | 3.46 | 2.4522 | -1.6692 | 1.7903 | 0.1480 | -0.4168 | -0.4628 | 0.0647 | 3.167 | 9880.5 |
| 9890.5 | 135.50 | 3.73 | 2.4434 | -1.7392 | 1.7089 | 0.1590 | -0.3968 | -0.4834 | 0.0629 | 3.232 | 9890.5 |
| 9900.5 | 138.03 | 4.00 | 2.4345 | -1.8057 | 1.6240 | 0.1696 | -0.3758 | -0.5031 | 0.0609 | 3.286 | 9900.5 |
| 9910.5 | 140.58 | 4.25 | 2.4253 | -1.8685 | 1.5358 | 0.1799 | -0.3538 | -0.5221 | 0.0589 | 3.330 | 9910.5 |
| 9920.5 | 143.15 | 4.51 | 2.4160 | -1.9274 | 1.4444 | 0.1899 | -0.3308 | -0.5401 | 0.0566 | 3.362 | 9920.5 |
| 9930.5 | 145.74 | 4.75 | 2.4066 | -1.9822 | 1.3500 | 0.1994 | -0.3068 | -0.5573 | 0.0542 | 3.384 | 9930.5 |
| 9940.5 | 148.36 | 4.99 | 2.3969 | -2.0329 | 1.2528 | 0.2085 | -0.2818 | -0.5735 | 0.0517 | 3.395 | 9940.5 |
| 9950.5 | 150.99 | 5.22 | 2.3872 | -2.0791 | 1.1528 | 0.2172 | -0.2560 | -0.5886 | 0.0490 | 3.394 | 9950.5 |
| 9960.5 | 153.65 | 5.44 | 2.3774 | -2.1209 | 1.0503 | 0.2254 | -0.2293 | -0.6026 | 0.0462 | 3.383 | 9960.5 |
| 9970.5 | 156.34 | 5.65 | 2.3675 | -2.1580 | 0.9455 | 0.2331 | -0.2017 | -0.6154 | 0.0432 | 3.361 | 9970.5 |
| 9980.5 | 159.05 | 5.85 | 2.3576 | -2.1902 | 0.8386 | 0.2402 | -0.1733 | -0.6271 | 0.0402 | 3.328 | 9980.5 |
| 9990.5 | 161.78 | 6.04 | 2.3476 | -2.2176 | 0.7298 | 0.2469 | -0.1442 | -0.6374 | 0.0369 | 3.285 | 9990.5 |
| 0000.5 | 164.54 | 6.21 | 2.3376 | -2.2398 | 0.6194 | 0.2529 | -0.1144 | -0.6465 | 0.0336 | 3.231 | 0000.5 |
| 0010.5 | 167.33 | 6.37 | 2.3276 | -2.2569 | 0.5075 | 0.2584 | -0.0839 | -0.6541 | 0.0301 | 3.167 | 0010.5 |
| 0020.5 | 170.14 | 6.52 | 2.3177 | -2.2687 | 0.3944 | 0.2633 | -0.0528 | -0.6603 | 0.0265 | 3.094 | 0020.5 |
| 0030.5 | 172.97 | 6.66 | 2.3078 | -2.2750 | 0.2804 | 0.2675 | -0.0212 | -0.6650 | 0.0229 | 3.012 | 0030.5 |
| 0040.5 | 175.84 | 6.78 | 2.2980 | -2.2760 | 0.1657 | 0.2711 | 0.0108 | -0.6681 | 0.0191 | 2.921 | 0040.5 |
| 0050.5 | 178.72 | 6.88 | 2.2883 | -2.2713 | 0.0506 | 0.2741 | 0.0433 | -0.6697 | 0.0152 | 2.823 | 0050.5 |
| 0060.5 | 181.64 | 6.97 | 2.2788 | -2.2611 | -0.0646 | 0.2764 | 0.0760 | -0.6696 | 0.0112 | 2.717 | 0060.5 |
| 0070.5 | 184.57 | 7.03 | 2.2694 | -2.2452 | -0.1796 | 0.2779 | 0.1090 | -0.6678 | 0.0071 | 2.604 | 0070.5 |
| 0080.5 | 187.54 | 7.09 | 2.2602 | -2.2236 | -0.2942 | 0.2788 | 0.1421 | -0.6643 | 0.0030 | 2.487 | 0080.5 |
| 0090.5 | 190.53 | 7.12 | 2.2512 | -2.1963 | -0.4081 | 0.2790 | 0.1752 | -0.6590 | -0.0012 | 2.364 | 0090.5 |
| 0100.5 | 193.54 | 7.13 | 2.2425 | -2.1633 | -0.5209 | 0.2784 | 0.2083 | -0.6520 | -0.0054 | 2.239 | 0100.5 |
| 0110.5 | 196.57 | 7.13 | 2.2340 | -2.1246 | -0.6323 | 0.2771 | 0.2412 | -0.6431 | -0.0097 | 2.112 | 0110.5 |
| 0120.5 | 199.63 | 7.10 | 2.2258 | -2.0803 | -0.7420 | 0.2751 | 0.2738 | -0.6324 | -0.0139 | 1.984 | 0120.5 |
| 0130.5 | 202.71 | 7.05 | 2.2179 | -2.0305 | -0.8498 | 0.2723 | 0.3060 | -0.6200 | -0.0182 | 1.857 | 0130.5 |
| 0140.5 | 205.81 | 6.99 | 2.2104 | -1.9751 | -0.9552 | 0.2688 | 0.3378 | -0.6056 | -0.0225 | 1.733 | 0140.5 |
| 0150.5 | 208.93 | 6.90 | 2.2032 | -1.9143 | -1.0581 | 0.2646 | 0.3689 | -0.5895 | -0.0268 | 1.614 | 0150.5 |
| 0160.5 | 212.07 | 6.79 | 2.1964 | -1.8482 | -1.1580 | 0.2596 | 0.3993 | -0.5716 | -0.0310 | 1.503 | 0160.5 |
| 0170.5 | 215.22 | 6.66 | 2.1900 | -1.7769 | -1.2546 | 0.2539 | 0.4289 | -0.5519 | -0.0352 | 1.403 | 0170.5 |
| 0180.5 | 218.40 | 6.51 | 2.1840 | -1.7007 | -1.3478 | 0.2475 | 0.4575 | -0.5305 | -0.0393 | 1.316 | 0180.5 |
| 0190.5 | 221.58 | 6.33 | 2.1785 | -1.6196 | -1.4371 | 0.2404 | 0.4850 | -0.5074 | -0.0434 | 1.247 | 0190.5 |
| 0200.5 | 224.78 | 6.14 | 2.1735 | -1.5339 | -1.5223 | 0.2326 | 0.5114 | -0.4827 | -0.0473 | 1.197 | 0200.5 |
| 0210.5 | 227.99 | 5.93 | 2.1690 | -1.4438 | -1.6031 | 0.2241 | 0.5364 | -0.4565 | -0.0512 | 1.171 | 0210.5 |
| 0220.5 | 231.21 | 5.70 | 2.1649 | -1.3494 | -1.6792 | 0.2150 | 0.5600 | -0.4287 | -0.0549 | 1.169 | 0220.5 |
| 0230.5 | 234.44 | 5.45 | 2.1614 | -1.2512 | -1.7505 | 0.2052 | 0.5821 | -0.3995 | -0.0585 | 1.190 | 0230.5 |
| 0240.5 | 237.68 | 5.18 | 2.1584 | -1.1493 | -1.8166 | 0.1948 | 0.6026 | -0.3691 | -0.0619 | 1.234 | 0240.5 |
| 0250.5 | 240.92 | 4.89 | 2.1560 | -1.0439 | -1.8774 | 0.1839 | 0.6214 | -0.3374 | -0.0651 | 1.296 | 0250.5 |
| 0260.5 | 244.17 | 4.59 | 2.1541 | -0.9356 | -1.9326 | 0.1725 | 0.6384 | -0.3047 | -0.0682 | 1.374 | 0260.5 |
| 0270.5 | 247.42 | 4.27 | 2.1528 | -0.8244 | -1.9822 | 0.1605 | 0.6536 | -0.2709 | -0.0711 | 1.464 | 0270.5 |
| 0280.5 | 250.67 | 3.94 | 2.1520 | -0.7108 | -2.0258 | 0.1480 | 0.6668 | -0.2364 | -0.0737 | 1.563 | 0280.5 |
| 0290.5 | 253.91 | 3.60 | 2.1518 | -0.5951 | -2.0635 | 0.1351 | 0.6781 | -0.2011 | -0.0762 | 1.669 | 0290.5 |
| 0300.5 | 257.16 | 3.25 | 2.1522 | -0.4776 | -2.0950 | 0.1218 | 0.6874 | -0.1652 | -0.0784 | 1.779 | 0300.5 |
| 0310.5 | 260.40 | 2.88 | 2.1531 | -0.3587 | -2.1202 | 0.1082 | 0.6946 | -0.1288 | -0.0804 | 1.891 | 0310.5 |
| 0320.5 | 263.63 | 2.51 | 2.1546 | -0.2388 | -2.1393 | 0.0942 | 0.6997 | -0.0921 | -0.0821 | 2.005 | 0320.5 |
| 0330.5 | 266.86 | 2.12 | 2.1567 | -0.1181 | -2.1519 | 0.0799 | 0.7028 | -0.0553 | -0.0836 | 2.118 | 0330.5 |
| 0340.5 | 270.08 | 1.74 | 2.1593 | 0.0029 | -2.1583 | 0.0654 | 0.7038 | -0.0184 | -0.0848 | 2.230 | 0340.5 |
| 0350.5 | 273.29 | 1.35 | 2.1624 | 0.1239 | -2.1583 | 0.0508 | 0.7027 | 0.0185 | -0.0858 | 2.340 | 0350.5 |
| 0360.5 | 276.48 | 0.95 | 2.1661 | 0.2445 | -2.1519 | 0.0359 | 0.6996 | 0.0550 | -0.0866 | 2.447 | 0360.5 |
| 0370.5 | 279.67 | 0.55 | 2.1703 | 0.3645 | -2.1393 | 0.0210 | 0.6944 | 0.0913 | -0.0871 | 2.550 | 0370.5 |
| 0380.5 | 282.84 | 0.16 | 2.1750 | 0.4833 | -2.1206 | 0.0060 | 0.6873 | 0.1270 | -0.0873 | 2.648 | 0380.5 |
| 0390.5 | 286.00 | -0.24 | 2.1801 | 0.6008 | -2.0957 | -0.0090 | 0.6783 | 0.1621 | -0.0873 | 2.740 | 0390.5 |
| 0400.5 | 289.14 | -0.63 | 2.1858 | 0.7166 | -2.0648 | -0.0240 | 0.6674 | 0.1966 | -0.0870 | 2.827 | 0400.5 |
| 0410.5 | 292.27 | -1.02 | 2.1918 | 0.8303 | -2.0281 | -0.0389 | 0.6547 | 0.2301 | -0.0865 | 2.906 | 0410.5 |
| 0420.5 | 295.37 | -1.40 | 2.1984 | 0.9417 | -1.9857 | -0.0537 | 0.6403 | 0.2628 | -0.0857 | 2.979 | 0420.5 |
| 0430.5 | 298.46 | -1.78 | 2.2053 | 1.0505 | -1.9377 | -0.0684 | 0.6242 | 0.2944 | -0.0847 | 3.043 | 0430.5 |
| 0440.5 | 301.54 | -2.15 | 2.2126 | 1.1564 | -1.8845 | -0.0829 | 0.6066 | 0.3249 | -0.0835 | 3.099 | 0440.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG) | LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 0450.5 | 304.59 | -2.51 | 2.2202 | 1.2592 | -1.8260 | -0.0971 | 0.5875 | 0.3542 | -0.0821 | 3.145 | 0450.5 |
| 0460.5 | 307.62 | -2.86 | 2.2282 | 1.3585 | -1.7627 | -0.1111 | 0.5671 | 0.3823 | -0.0805 | 3.183 | 0460.5 |
| 0470.5 | 310.63 | -3.20 | 2.2365 | 1.4542 | -1.6946 | -0.1248 | 0.5453 | 0.4090 | -0.0786 | 3.211 | 0470.5 |
| 0480.5 | 313.63 | -3.53 | 2.2450 | 1.5460 | -1.6220 | -0.1382 | 0.5224 | 0.4344 | -0.0766 | 3.229 | 0480.5 |
| 0490.5 | 316.60 | -3.85 | 2.2539 | 1.6338 | -1.5452 | -0.1512 | 0.4983 | 0.4584 | -0.0744 | 3.237 | 0490.5 |
| 0500.5 | 319.55 | -4.15 | 2.2629 | 1.7174 | -1.4644 | -0.1638 | 0.4733 | 0.4808 | -0.0721 | 3.235 | 0500.5 |
| 0510.5 | 322.47 | -4.44 | 2.2722 | 1.7966 | -1.3799 | -0.1760 | 0.4474 | 0.5018 | -0.0696 | 3.222 | 0510.5 |
| 0520.5 | 325.38 | -4.72 | 2.2816 | 1.8713 | -1.2918 | -0.1877 | 0.4206 | 0.5213 | -0.0669 | 3.200 | 0520.5 |
| 0530.5 | 328.27 | -4.98 | 2.2912 | 1.9413 | -1.2006 | -0.1990 | 0.3932 | 0.5392 | -0.0642 | 3.168 | 0530.5 |
| 0540.5 | 331.13 | -5.23 | 2.3009 | 2.0065 | -1.1064 | -0.2098 | 0.3651 | 0.5556 | -0.0612 | 3.127 | 0540.5 |
| 0550.5 | 333.97 | -5.46 | 2.3107 | 2.0669 | -1.0095 | -0.2200 | 0.3366 | 0.5705 | -0.0582 | 3.076 | 0550.5 |
| 0560.5 | 336.79 | -5.68 | 2.3206 | 2.1223 | -0.9102 | -0.2298 | 0.3075 | 0.5838 | -0.0551 | 3.016 | 0560.5 |
| 0570.5 | 339.58 | -5.89 | 2.3306 | 2.1727 | -0.8087 | -0.2390 | 0.2782 | 0.5955 | -0.0519 | 2.947 | 0570.5 |
| 0580.5 | 342.36 | -6.07 | 2.3406 | 2.2180 | -0.7054 | -0.2477 | 0.2485 | 0.6058 | -0.0486 | 2.870 | 0580.5 |
| 0590.5 | 345.11 | -6.25 | 2.3506 | 2.2582 | -0.6004 | -0.2557 | 0.2187 | 0.6145 | -0.0453 | 2.786 | 0590.5 |
| 0600.5 | 347.84 | -6.40 | 2.3605 | 2.2932 | -0.4941 | -0.2632 | 0.1887 | 0.6217 | -0.0419 | 2.694 | 0600.5 |
| 0610.5 | 350.55 | -6.54 | 2.3705 | 2.3231 | -0.3866 | -0.2701 | 0.1587 | 0.6274 | -0.0384 | 2.596 | 0610.5 |
| 0620.5 | 353.24 | -6.67 | 2.3803 | 2.3478 | -0.2783 | -0.2764 | 0.1287 | 0.6317 | -0.0349 | 2.493 | 0620.5 |
| 0630.5 | 355.91 | -6.78 | 2.3901 | 2.3674 | -0.1694 | -0.2821 | 0.0988 | 0.6345 | -0.0313 | 2.385 | 0630.5 |
| 0640.5 | 358.56 | -6.87 | 2.3998 | 2.3818 | -0.0601 | -0.2872 | 0.0691 | 0.6360 | -0.0278 | 2.274 | 0640.5 |
| 0650.5 | 1.18 | -6.95 | 2.4094 | 2.3911 | 0.0494 | -0.2917 | 0.0396 | 0.6360 | -0.0242 | 2.162 | 0650.5 |
| 0660.5 | 3.79 | -7.02 | 2.4188 | 2.3954 | 0.1587 | -0.2955 | 0.0103 | 0.6348 | -0.0206 | 2.049 | 0660.5 |
| 0670.5 | 6.38 | -7.07 | 2.4281 | 2.3947 | 0.2677 | -0.2988 | -0.0187 | 0.6322 | -0.0170 | 1.939 | 0670.5 |
| 0680.5 | 8.95 | -7.10 | 2.4372 | 2.3890 | 0.3761 | -0.3014 | -0.0472 | 0.6283 | -0.0134 | 1.833 | 0680.5 |
| 0690.5 | 11.50 | -7.12 | 2.4460 | 2.3785 | 0.4838 | -0.3034 | -0.0754 | 0.6233 | -0.0098 | 1.735 | 0690.5 |
| 0700.5 | 14.03 | -7.13 | 2.4547 | 2.3631 | 0.5905 | -0.3048 | -0.1031 | 0.6170 | -0.0063 | 1.650 | 0700.5 |
| 0710.5 | 16.54 | -7.13 | 2.4632 | 2.3430 | 0.6960 | -0.3055 | -0.1304 | 0.6095 | -0.0028 | 1.580 | 0710.5 |
| 0720.5 | 19.04 | -7.11 | 2.4714 | 2.3183 | 0.8001 | -0.3057 | -0.1571 | 0.6010 | 0.0007 | 1.530 | 0720.5 |
| 0730.5 | 21.52 | -7.07 | 2.4794 | 2.2890 | 0.9027 | -0.3053 | -0.1832 | 0.5913 | 0.0042 | 1.504 | 0730.5 |
| 0740.5 | 23.99 | -7.03 | 2.4871 | 2.2553 | 1.0035 | -0.3043 | -0.2087 | 0.5806 | 0.0076 | 1.504 | 0740.5 |
| 0750.5 | 26.44 | -6.97 | 2.4946 | 2.2172 | 1.1024 | -0.3027 | -0.2336 | 0.5689 | 0.0110 | 1.531 | 0750.5 |
| 0760.5 | 28.87 | -6.90 | 2.5017 | 2.1749 | 1.1992 | -0.3005 | -0.2579 | 0.5562 | 0.0143 | 1.585 | 0760.5 |
| 0770.5 | 31.29 | -6.82 | 2.5086 | 2.1285 | 1.2937 | -0.2977 | -0.2814 | 0.5425 | 0.0176 | 1.662 | 0770.5 |
| 0780.5 | 33.70 | -6.72 | 2.5151 | 2.0781 | 1.3858 | -0.2944 | -0.3042 | 0.5280 | 0.0208 | 1.759 | 0780.5 |
| 0790.5 | 36.09 | -6.62 | 2.5213 | 2.0239 | 1.4753 | -0.2906 | -0.3263 | 0.5126 | 0.0240 | 1.871 | 0790.5 |
| 0800.5 | 38.47 | -6.50 | 2.5272 | 1.9659 | 1.5621 | -0.2862 | -0.3477 | 0.4963 | 0.0271 | 1.996 | 0800.5 |
| 0810.5 | 40.84 | -6.38 | 2.5327 | 1.9043 | 1.6460 | -0.2813 | -0.3682 | 0.4793 | 0.0301 | 2.128 | 0810.5 |
| 0820.5 | 43.20 | -6.24 | 2.5379 | 1.8392 | 1.7269 | -0.2758 | -0.3880 | 0.4615 | 0.0330 | 2.264 | 0820.5 |
| 0830.5 | 45.54 | -6.09 | 2.5428 | 1.7708 | 1.8047 | -0.2699 | -0.4069 | 0.4430 | 0.0359 | 2.402 | 0830.5 |
| 0840.5 | 47.88 | -5.94 | 2.5473 | 1.6993 | 1.8793 | -0.2635 | -0.4251 | 0.4237 | 0.0387 | 2.539 | 0840.5 |
| 0850.5 | 50.21 | -5.77 | 2.5514 | 1.6246 | 1.9505 | -0.2566 | -0.4423 | 0.4039 | 0.0414 | 2.673 | 0850.5 |
| 0860.5 | 52.53 | -5.60 | 2.5552 | 1.5471 | 2.0182 | -0.2493 | -0.4587 | 0.3833 | 0.0440 | 2.801 | 0860.5 |
| 0870.5 | 54.84 | -5.42 | 2.5585 | 1.4669 | 2.0823 | -0.2415 | -0.4742 | 0.3622 | 0.0465 | 2.924 | 0870.5 |
| 0880.5 | 57.14 | -5.23 | 2.5615 | 1.3840 | 2.1428 | -0.2333 | -0.4888 | 0.3406 | 0.0489 | 3.038 | 0880.5 |
| 0890.5 | 59.44 | -5.03 | 2.5642 | 1.2987 | 2.1995 | -0.2247 | -0.5025 | 0.3184 | 0.0513 | 3.143 | 0890.5 |
| 0900.5 | 61.73 | -4.82 | 2.5664 | 1.2112 | 2.2523 | -0.2156 | -0.5153 | 0.2957 | 0.0535 | 3.239 | 0900.5 |
| 0910.5 | 64.02 | -4.61 | 2.5682 | 1.1215 | 2.3012 | -0.2063 | -0.5272 | 0.2726 | 0.0557 | 3.324 | 0910.5 |
| 0920.5 | 66.30 | -4.39 | 2.5697 | 1.0298 | 2.3461 | -0.1965 | -0.5381 | 0.2490 | 0.0577 | 3.397 | 0920.5 |
| 0930.5 | 68.58 | -4.16 | 2.5707 | 0.9364 | 2.3868 | -0.1864 | -0.5481 | 0.2250 | 0.0597 | 3.459 | 0930.5 |
| 0940.5 | 70.85 | -3.92 | 2.5714 | 0.8413 | 2.4234 | -0.1760 | -0.5571 | 0.2006 | 0.0615 | 3.509 | 0940.5 |
| 0950.5 | 73.13 | -3.68 | 2.5716 | 0.7448 | 2.4558 | -0.1653 | -0.5651 | 0.1760 | 0.0632 | 3.546 | 0950.5 |
| 0960.5 | 75.40 | -3.44 | 2.5715 | 0.6470 | 2.4840 | -0.1542 | -0.5721 | 0.1510 | 0.0648 | 3.571 | 0960.5 |
| 0970.5 | 77.67 | -3.19 | 2.5709 | 0.5480 | 2.5078 | -0.1430 | -0.5782 | 0.1257 | 0.0663 | 3.583 | 0970.5 |
| 0980.5 | 79.95 | -2.93 | 2.5700 | 0.4481 | 2.5272 | -0.1314 | -0.5832 | 0.1002 | 0.0677 | 3.583 | 0980.5 |
| 0990.5 | 82.22 | -2.67 | 2.5686 | 0.3474 | 2.5422 | -0.1197 | -0.5873 | 0.0745 | 0.0690 | 3.570 | 0990.5 |
| 1000.5 | 84.49 | -2.40 | 2.5669 | 0.2461 | 2.5528 | -0.1077 | -0.5903 | 0.0486 | 0.0702 | 3.545 | 1000.5 |
| 1010.5 | 86.77 | -2.13 | 2.5648 | 0.1444 | 2.5589 | -0.0955 | -0.5923 | 0.0226 | 0.0712 | 3.507 | 1010.5 |
| 1020.5 | 89.05 | -1.86 | 2.5623 | 0.0424 | 2.5606 | -0.0832 | -0.5932 | -0.0036 | 0.0721 | 3.458 | 1020.5 |
| 1030.5 | 91.34 | -1.58 | 2.5594 | -0.0597 | 2.5577 | -0.0707 | -0.5931 | -0.0298 | 0.0729 | 3.396 | 1030.5 |
| 1040.5 | 93.63 | -1.30 | 2.5561 | -0.1616 | 2.5503 | -0.0581 | -0.5920 | -0.0560 | 0.0735 | 3.323 | 1040.5 |
| 1050.5 | 95.92 | -1.02 | 2.5524 | -0.2633 | 2.5384 | -0.0454 | -0.5898 | -0.0823 | 0.0741 | 3.240 | 1050.5 |
| 1060.5 | 98.22 | -0.73 | 2.5484 | -0.3645 | 2.5220 | -0.0327 | -0.5865 | -0.1085 | 0.0745 | 3.146 | 1060.5 |
| 1070.5 | 100.53 | -0.45 | 2.5440 | -0.4651 | 2.5011 | -0.0198 | -0.5822 | -0.1347 | 0.0748 | 3.042 | 1070.5 |
| 1080.5 | 102.85 | -0.16 | 2.5393 | -0.5648 | 2.4757 | -0.0069 | -0.5768 | -0.1608 | 0.0749 | 2.929 | 1080.5 |
| 1090.5 | 105.18 | 0.13 | 2.5342 | -0.6634 | 2.4458 | 0.0059 | -0.5703 | -0.1867 | 0.0749 | 2.809 | 1090.5 |
| 1100.5 | 107.51 | 0.43 | 2.5287 | -0.7609 | 2.4114 | 0.0188 | -0.5628 | -0.2125 | 0.0748 | 2.682 | 1100.5 |
| 1110.5 | 109.86 | 0.72 | 2.5229 | -0.8570 | 2.3727 | 0.0317 | -0.5542 | -0.2380 | 0.0745 | 2.549 | 1110.5 |
| 1120.5 | 112.22 | 1.01 | 2.5168 | -0.9515 | 2.3295 | 0.0445 | -0.5444 | -0.2633 | 0.0741 | 2.412 | 1120.5 |
| 1130.5 | 114.59 | 1.30 | 2.5103 | -1.0443 | 2.2821 | 0.0572 | -0.5336 | -0.2883 | 0.0735 | 2.274 | 1130.5 |
| 1140.5 | 116.97 | 1.60 | 2.5036 | -1.1351 | 2.2304 | 0.0697 | -0.5217 | -0.3129 | 0.0729 | 2.136 | 1140.5 |
| 1150.5 | 119.37 | 1.89 | 2.4965 | -1.2237 | 2.1744 | 0.0822 | -0.5087 | -0.3372 | 0.0720 | 2.001 | 1150.5 |
| 1160.5 | 121.78 | 2.18 | 2.4891 | -1.3100 | 2.1144 | 0.0945 | -0.4947 | -0.3610 | 0.0710 | 1.873 | 1160.5 |
| 1170.5 | 124.21 | 2.46 | 2.4815 | -1.3939 | 2.0503 | 0.1066 | -0.4795 | -0.3843 | 0.0699 | 1.755 | 1170.5 |
| 245 | | | | | | | | | | | 245 |

| JULIAN DATE | LONGITUDE L (DEG) | HELIOCENTRIC ECLIPTIC POSITION LATITUDE B (DEG) | RADIUS R (AU) | CARTESIAN COORDINATES X (AU) | Y (AU) | Z (AU) | HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS) | VY (EMOS) | VZ (EMOS) | COMM DIST D (AU) | JULIAN DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 245 | | | | | | | | | | | 245 |
| 1180.5 | 126.65 | 2.75 | 2.4736 | -1.4750 | 1.9822 | 0.1186 | -0.4633 | -0.4071 | 0.0686 | 1.651 | 1180.5 |
| 1190.5 | 129.11 | 3.03 | 2.4654 | -1.5532 | 1.9102 | 0.1302 | -0.4460 | -0.4294 | 0.0672 | 1.566 | 1190.5 |
| 1200.5 | 131.59 | 3.31 | 2.4570 | -1.6283 | 1.8345 | 0.1417 | -0.4276 | -0.4510 | 0.0656 | 1.504 | 1200.5 |
| 1210.5 | 134.09 | 3.58 | 2.4484 | -1.7003 | 1.7551 | 0.1528 | -0.4082 | -0.4719 | 0.0639 | 1.469 | 1210.5 |
| 1220.5 | 136.61 | 3.85 | 2.4395 | -1.7687 | 1.6722 | 0.1637 | -0.3878 | -0.4921 | 0.0621 | 1.462 | 1220.5 |
| 1230.5 | 139.14 | 4.11 | 2.4305 | -1.8336 | 1.5858 | 0.1742 | -0.3663 | -0.5115 | 0.0600 | 1.482 | 1230.5 |
| 1240.5 | 141.70 | 4.37 | 2.4213 | -1.8947 | 1.4962 | 0.1843 | -0.3438 | -0.5301 | 0.0579 | 1.528 | 1240.5 |
| 1250.5 | 144.28 | 4.62 | 2.4119 | -1.9519 | 1.4035 | 0.1941 | -0.3204 | -0.5478 | 0.0556 | 1.596 | 1250.5 |
| 1260.5 | 146.88 | 4.86 | 2.4024 | -2.0049 | 1.3078 | 0.2034 | -0.2960 | -0.5645 | 0.0531 | 1.681 | 1260.5 |
| 1270.5 | 149.51 | 5.09 | 2.3927 | -2.0536 | 1.2093 | 0.2123 | -0.2706 | -0.5802 | 0.0505 | 1.778 | 1270.5 |
| 1280.5 | 152.15 | 5.32 | 2.3829 | -2.0980 | 1.1083 | 0.2208 | -0.2444 | -0.5948 | 0.0478 | 1.884 | 1280.5 |
| 1290.5 | 154.83 | 5.53 | 2.3731 | -2.1377 | 1.0047 | 0.2288 | -0.2173 | -0.6084 | 0.0449 | 1.995 | 1290.5 |
| 1300.5 | 157.52 | 5.74 | 2.3632 | -2.1727 | 0.8990 | 0.2363 | -0.1894 | -0.6207 | 0.0419 | 2.108 | 1300.5 |
| 1310.5 | 160.24 | 5.93 | 2.3532 | -2.2028 | 0.7913 | 0.2432 | -0.1607 | -0.6318 | 0.0388 | 2.221 | 1310.5 |
| 1320.5 | 162.99 | 6.11 | 2.3432 | -2.2279 | 0.6817 | 0.2496 | -0.1313 | -0.6416 | 0.0355 | 2.332 | 1320.5 |
| 1330.5 | 165.76 | 6.28 | 2.3333 | -2.2479 | 0.5706 | 0.2554 | -0.1011 | -0.6500 | 0.0321 | 2.440 | 1330.5 |
| 1340.5 | 168.55 | 6.44 | 2.3233 | -2.2627 | 0.4582 | 0.2606 | -0.0704 | -0.6570 | 0.0286 | 2.542 | 1340.5 |
| 1350.5 | 171.37 | 6.58 | 2.3134 | -2.2721 | 0.3446 | 0.2652 | -0.0391 | -0.6625 | 0.0249 | 2.639 | 1350.5 |
| 1360.5 | 174.22 | 6.71 | 2.3035 | -2.2761 | 0.2303 | 0.2692 | -0.0073 | -0.6666 | 0.0212 | 2.730 | 1360.5 |
| 1370.5 | 177.10 | 6.82 | 2.2938 | -2.2746 | 0.1154 | 0.2725 | 0.0250 | -0.6690 | 0.0174 | 2.814 | 1370.5 |
| 1380.5 | 179.99 | 6.92 | 2.2842 | -2.2675 | 0.0002 | 0.2752 | 0.0576 | -0.6698 | 0.0134 | 2.890 | 1380.5 |
| 1390.5 | 182.92 | 7.00 | 2.2747 | -2.2548 | -0.1150 | 0.2771 | 0.0904 | -0.6690 | 0.0094 | 2.958 | 1390.5 |
| 1400.5 | 185.87 | 7.06 | 2.2654 | -2.2364 | -0.2299 | 0.2784 | 0.1234 | -0.6665 | 0.0053 | 3.019 | 1400.5 |
| 1410.5 | 188.84 | 7.10 | 2.2562 | -2.2123 | -0.3442 | 0.2790 | 0.1566 | -0.6622 | 0.0012 | 3.071 | 1410.5 |
| 1420.5 | 191.84 | 7.13 | 2.2474 | -2.1825 | -0.4576 | 0.2788 | 0.1897 | -0.6561 | -0.0030 | 3.114 | 1420.5 |
| 1430.5 | 194.86 | 7.13 | 2.2387 | -2.1471 | -0.5698 | 0.2779 | 0.2227 | -0.6483 | -0.0073 | 3.149 | 1430.5 |
| 1440.5 | 197.91 | 7.12 | 2.2304 | -2.1059 | -0.6805 | 0.2763 | 0.2555 | -0.6387 | -0.0115 | 3.175 | 1440.5 |
| 1450.5 | 200.98 | 7.08 | 2.2223 | -2.0592 | -0.7894 | 0.2740 | 0.2880 | -0.6272 | -0.0158 | 3.191 | 1450.5 |
| 1460.5 | 204.06 | 7.03 | 2.2146 | -2.0069 | -0.8962 | 0.2709 | 0.3200 | -0.6139 | -0.0201 | 3.199 | 1460.5 |
| 1470.5 | 207.17 | 6.95 | 2.2072 | -1.9491 | -1.0006 | 0.2670 | 0.3515 | -0.5988 | -0.0244 | 3.198 | 1470.5 |
| 1480.5 | 210.30 | 6.85 | 2.2002 | -1.8860 | -1.1021 | 0.2625 | 0.3823 | -0.5819 | -0.0287 | 3.187 | 1480.5 |
| 1490.5 | 213.45 | 6.73 | 2.1935 | -1.8177 | -1.2007 | 0.2572 | 0.4124 | -0.5632 | -0.0329 | 3.167 | 1490.5 |
| 1500.5 | 216.61 | 6.59 | 2.1873 | -1.7442 | -1.2958 | 0.2512 | 0.4415 | -0.5428 | -0.0370 | 3.139 | 1500.5 |
| 1510.5 | 219.79 | 6.43 | 2.1816 | -1.6658 | -1.3873 | 0.2444 | 0.4697 | -0.5206 | -0.0411 | 3.101 | 1510.5 |
| 1520.5 | 222.98 | 6.25 | 2.1763 | -1.5827 | -1.4749 | 0.2370 | 0.4967 | -0.4968 | -0.0451 | 3.055 | 1520.5 |
| 1530.5 | 226.19 | 6.05 | 2.1715 | -1.4950 | -1.5582 | 0.2289 | 0.5225 | -0.4714 | -0.0490 | 3.000 | 1530.5 |
| 1540.5 | 229.40 | 5.83 | 2.1671 | -1.4030 | -1.6370 | 0.2202 | 0.5469 | -0.4445 | -0.0528 | 2.937 | 1540.5 |
| 1550.5 | 232.63 | 5.59 | 2.1633 | -1.3069 | -1.7110 | 0.2108 | 0.5699 | -0.4161 | -0.0565 | 2.866 | 1550.5 |
| 1560.5 | 235.86 | 5.33 | 2.1600 | -1.2070 | -1.7801 | 0.2007 | 0.5913 | -0.3864 | -0.0600 | 2.788 | 1560.5 |
| 1570.5 | 239.10 | 5.06 | 2.1573 | -1.1036 | -1.8439 | 0.1901 | 0.6110 | -0.3554 | -0.0633 | 2.703 | 1570.5 |
| 1580.5 | 242.34 | 4.76 | 2.1551 | -0.9969 | -1.9023 | 0.1790 | 0.6291 | -0.3232 | -0.0665 | 2.612 | 1580.5 |
| 1590.5 | 245.59 | 4.46 | 2.1534 | -0.8873 | -1.9550 | 0.1673 | 0.6453 | -0.2900 | -0.0695 | 2.515 | 1590.5 |
| 1600.5 | 248.84 | 4.13 | 2.1524 | -0.7750 | -2.0020 | 0.1551 | 0.6596 | -0.2559 | -0.0722 | 2.413 | 1600.5 |
| 1610.5 | 252.09 | 3.80 | 2.1518 | -0.6604 | -2.0430 | 0.1424 | 0.6720 | -0.2210 | -0.0748 | 2.307 | 1610.5 |
| 1620.5 | 255.33 | 3.45 | 2.1519 | -0.5439 | -2.0780 | 0.1294 | 0.6824 | -0.1854 | -0.0772 | 2.197 | 1620.5 |
| 1630.5 | 258.57 | 3.09 | 2.1525 | -0.4258 | -2.1068 | 0.1159 | 0.6908 | -0.1493 | -0.0793 | 2.085 | 1630.5 |
| 1640.5 | 261.81 | 2.72 | 2.1537 | -0.3064 | -2.1293 | 0.1021 | 0.6971 | -0.1128 | -0.0812 | 1.972 | 1640.5 |
| 1650.5 | 265.04 | 2.34 | 2.1554 | -0.1861 | -2.1456 | 0.0880 | 0.7013 | -0.0760 | -0.0828 | 1.859 | 1650.5 |
| 1660.5 | 268.27 | 1.96 | 2.1577 | -0.0652 | -2.1555 | 0.0736 | 0.7035 | -0.0391 | -0.0842 | 1.746 | 1660.5 |
| 1670.5 | 271.48 | 1.57 | 2.1606 | 0.0559 | -2.1590 | 0.0590 | 0.7036 | -0.0022 | -0.0853 | 1.637 | 1670.5 |
| 1680.5 | 274.69 | 1.17 | 2.1639 | 0.1767 | -2.1563 | 0.0443 | 0.7016 | 0.0345 | -0.0862 | 1.533 | 1680.5 |
| 1690.5 | 277.88 | 0.78 | 2.1678 | 0.2971 | -2.1472 | 0.0294 | 0.6976 | 0.0709 | -0.0868 | 1.437 | 1690.5 |
| 1700.5 | 281.06 | 0.38 | 2.1723 | 0.4166 | -2.1319 | 0.0144 | 0.6916 | 0.1070 | -0.0872 | 1.351 | 1700.5 |
| 1710.5 | 284.22 | -0.02 | 2.1772 | 0.5349 | -2.1104 | -0.0006 | 0.6836 | 0.1425 | -0.0873 | 1.279 | 1710.5 |
| 1720.5 | 287.37 | -0.41 | 2.1825 | 0.6517 | -2.0829 | -0.0156 | 0.6737 | 0.1773 | -0.0872 | 1.224 | 1720.5 |
| 1730.5 | 290.51 | -0.80 | 2.1884 | 0.7666 | -2.0495 | -0.0306 | 0.6621 | 0.2114 | -0.0868 | 1.190 | 1730.5 |
| 1740.5 | 293.63 | -1.19 | 2.1946 | 0.8794 | -2.0102 | -0.0454 | 0.6486 | 0.2445 | -0.0862 | 1.179 | 1740.5 |
| 1750.5 | 296.73 | -1.57 | 2.2013 | 0.9897 | -1.9654 | -0.0602 | 0.6335 | 0.2768 | -0.0853 | 1.193 | 1750.5 |
| 1760.5 | 299.81 | -1.94 | 2.2084 | 1.0972 | -1.9151 | -0.0748 | 0.6167 | 0.3079 | -0.0842 | 1.231 | 1760.5 |
| 1770.5 | 302.87 | -2.31 | 2.2159 | 1.2018 | -1.8595 | -0.0891 | 0.5984 | 0.3379 | -0.0829 | 1.292 | 1770.5 |
| 1780.5 | 305.92 | -2.66 | 2.2236 | 1.3030 | -1.7989 | -0.1033 | 0.5787 | 0.3667 | -0.0814 | 1.371 | 1780.5 |
| 1790.5 | 308.94 | -3.01 | 2.2318 | 1.4008 | -1.7334 | -0.1171 | 0.5577 | 0.3942 | -0.0797 | 1.467 | 1790.5 |
| 1800.5 | 311.95 | -3.34 | 2.2402 | 1.4948 | -1.6634 | -0.1307 | 0.5354 | 0.4203 | -0.0778 | 1.574 | 1800.5 |
| 1810.5 | 314.93 | -3.67 | 2.2489 | 1.5849 | -1.5889 | -0.1439 | 0.5120 | 0.4451 | -0.0757 | 1.691 | 1810.5 |
| 1820.5 | 317.89 | -3.98 | 2.2578 | 1.6709 | -1.5103 | -0.1567 | 0.4875 | 0.4684 | -0.0734 | 1.815 | 1820.5 |
| 1830.5 | 320.83 | -4.28 | 2.2669 | 1.7526 | -1.4279 | -0.1692 | 0.4621 | 0.4902 | -0.0710 | 1.942 | 1830.5 |
| 1840.5 | 323.75 | -4.56 | 2.2763 | 1.8298 | -1.3418 | -0.1812 | 0.4358 | 0.5105 | -0.0684 | 2.072 | 1840.5 |
| 1850.5 | 326.65 | -4.84 | 2.2858 | 1.9025 | -1.2523 | -0.1927 | 0.4087 | 0.5293 | -0.0657 | 2.203 | 1850.5 |
| 1860.5 | 329.52 | -5.09 | 2.2954 | 1.9704 | -1.1597 | -0.2038 | 0.3810 | 0.5466 | -0.0629 | 2.332 | 1860.5 |
| 1870.5 | 332.37 | -5.33 | 2.3052 | 2.0335 | -1.0643 | -0.2143 | 0.3527 | 0.5623 | -0.0599 | 2.459 | 1870.5 |
| 1880.5 | 335.20 | -5.56 | 2.3151 | 2.0917 | -0.9663 | -0.2244 | 0.3239 | 0.5765 | -0.0569 | 2.582 | 1880.5 |
| 1890.5 | 338.01 | -5.77 | 2.3250 | 2.1449 | -0.8661 | -0.2339 | 0.2947 | 0.5891 | -0.0537 | 2.699 | 1890.5 |
| 1900.5 | 340.80 | -5.97 | 2.3350 | 2.1931 | -0.7638 | -0.2429 | 0.2652 | 0.6002 | -0.0505 | 2.811 | 1900.5 |
| 245 | | | | | | | | | | | 245 |



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