NASA SP-35
PART 5

SPACE FLIGHT HANDBOOKS

VOLUME III

FACILITY FORM 602

N66-21045
(ACCESSION NUMBER)

(THRU)

541
(PAGES)

1
(CODE)

30
(CATEGORY)

(NASA CR OR TMX OR AD NUMBER)

GPO PRICE $ 3.00

CFSTI PRICE(S) $

Hard copy (HC)

Microfiche (MF) 2.75

ff 653 July 65

PLANETARY FLIGHT HANDBOOK

Part 5 – Trajectories to Jupiter, Ceres, and Vesta

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA SP-35
PART 5

SPACE FLIGHT HANDBOOKS VOLUME III

PLANETARY FLIGHT HANDBOOK

Part 5 – Trajectories to Jupiter, Ceres, and Vesta

Prepared under contract
for NASA by Lockheed
Missiles and Space Company

Scientific and Technical Information Division 1966
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Washington, D.C.

For sale by the Superintendent of Documents, U.S. Government Printing Office
Washington, D.C., 20402 - Price $3.00

FOREWORD

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

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

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

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

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

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SECTION 1

INTRODUCTION

Section 1
INTRODUCTION

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

Speed Contour Charts

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

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

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

Tabular Trajectory Data

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

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

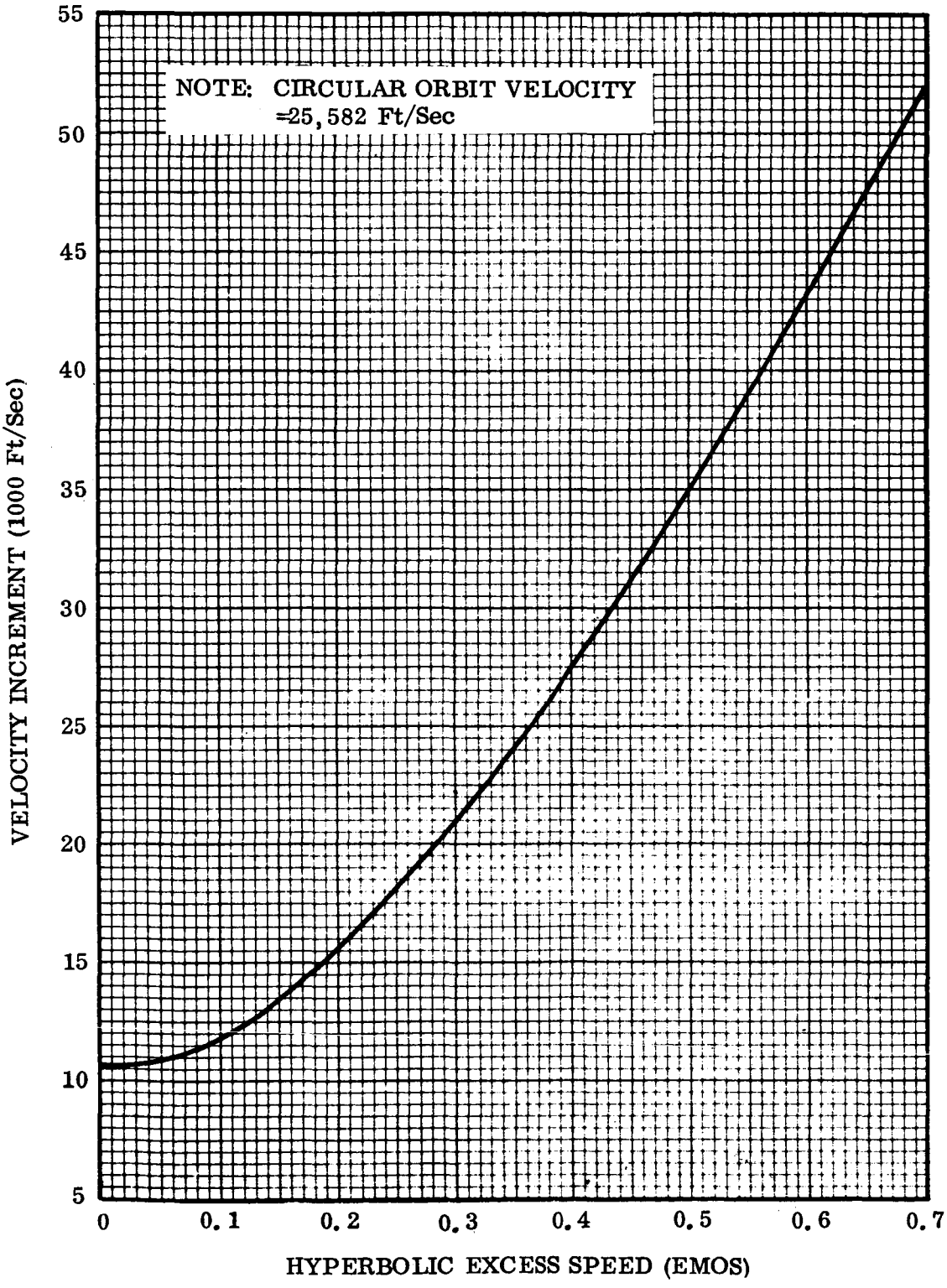

Fig. 1-1 Impulsive Velocity Increment from 100-nm Circular Earth Orbit

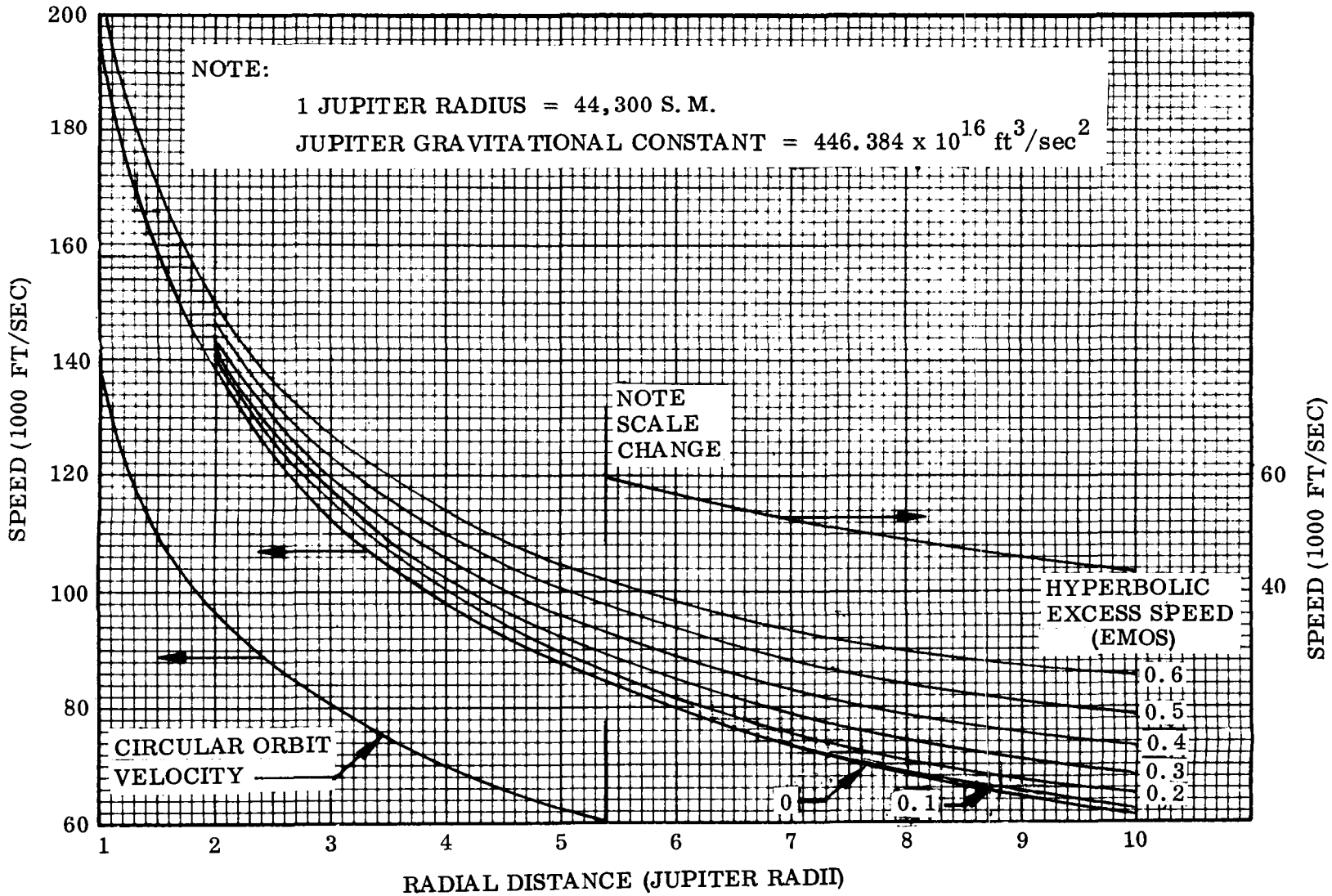

Fig. 1-2 Speed Near Jupiter

Table 1-1

ORBITAL ELEMENTS

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

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

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

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

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

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

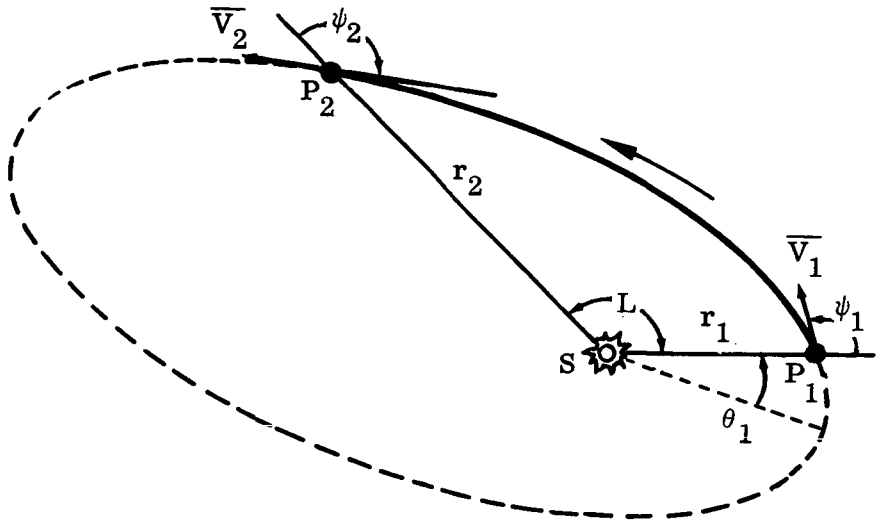

Fig. 1-3 Relationships in the Transfer Plane

Planetary Positions and Velocities

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

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

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

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

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

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

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

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

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

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

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

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

SECTION 2

HYPERBOLIC EXCESS SPEED CONTOUR CHARTS

EARTH-JUPITER HYPERBOLIC EXCESS SPEED

CONTOUR CHARTS

FOR THE YEARS 1970-1980

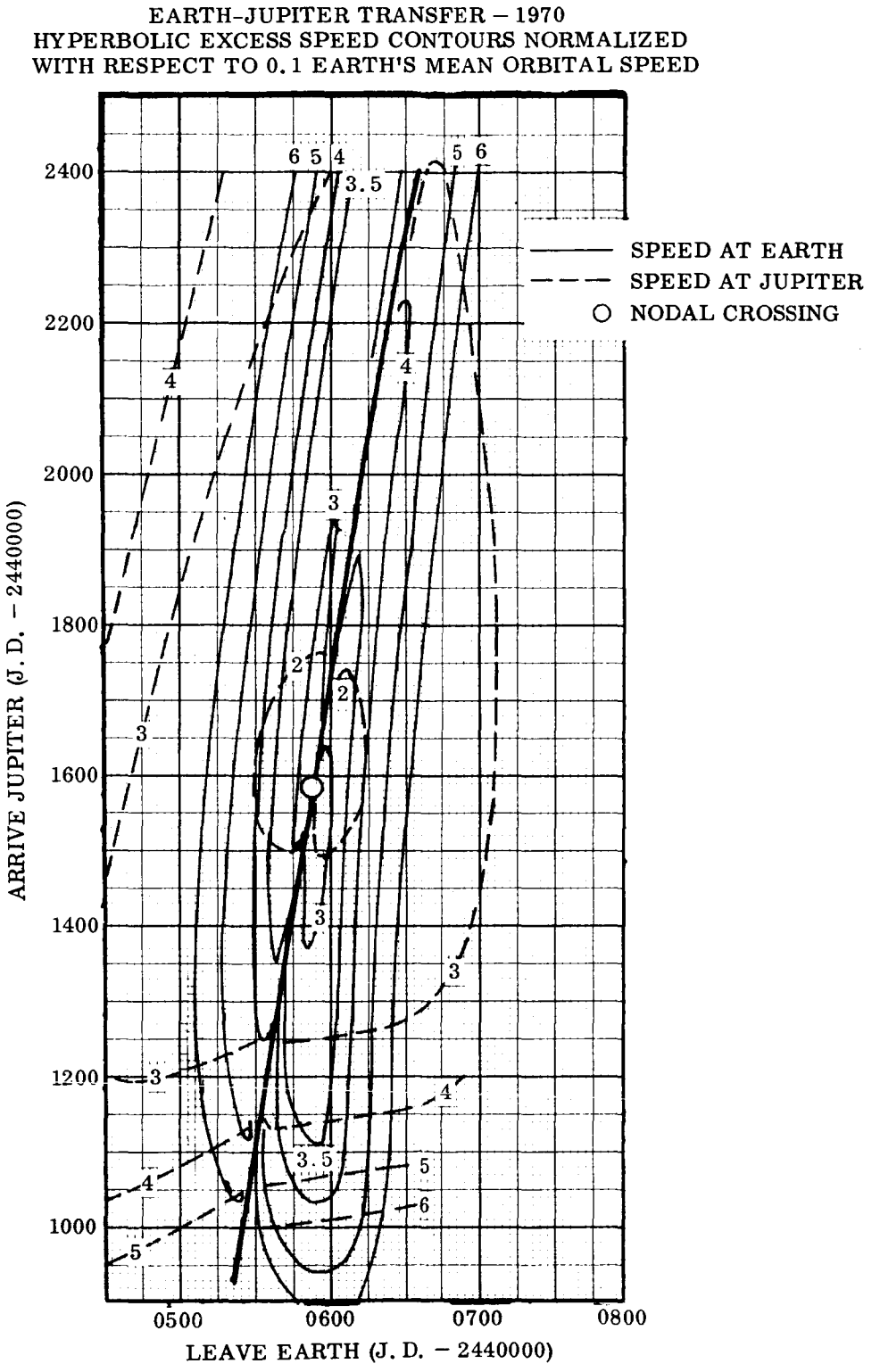

Fig. 2-1 Earth-Jupiter Transfer (1970)

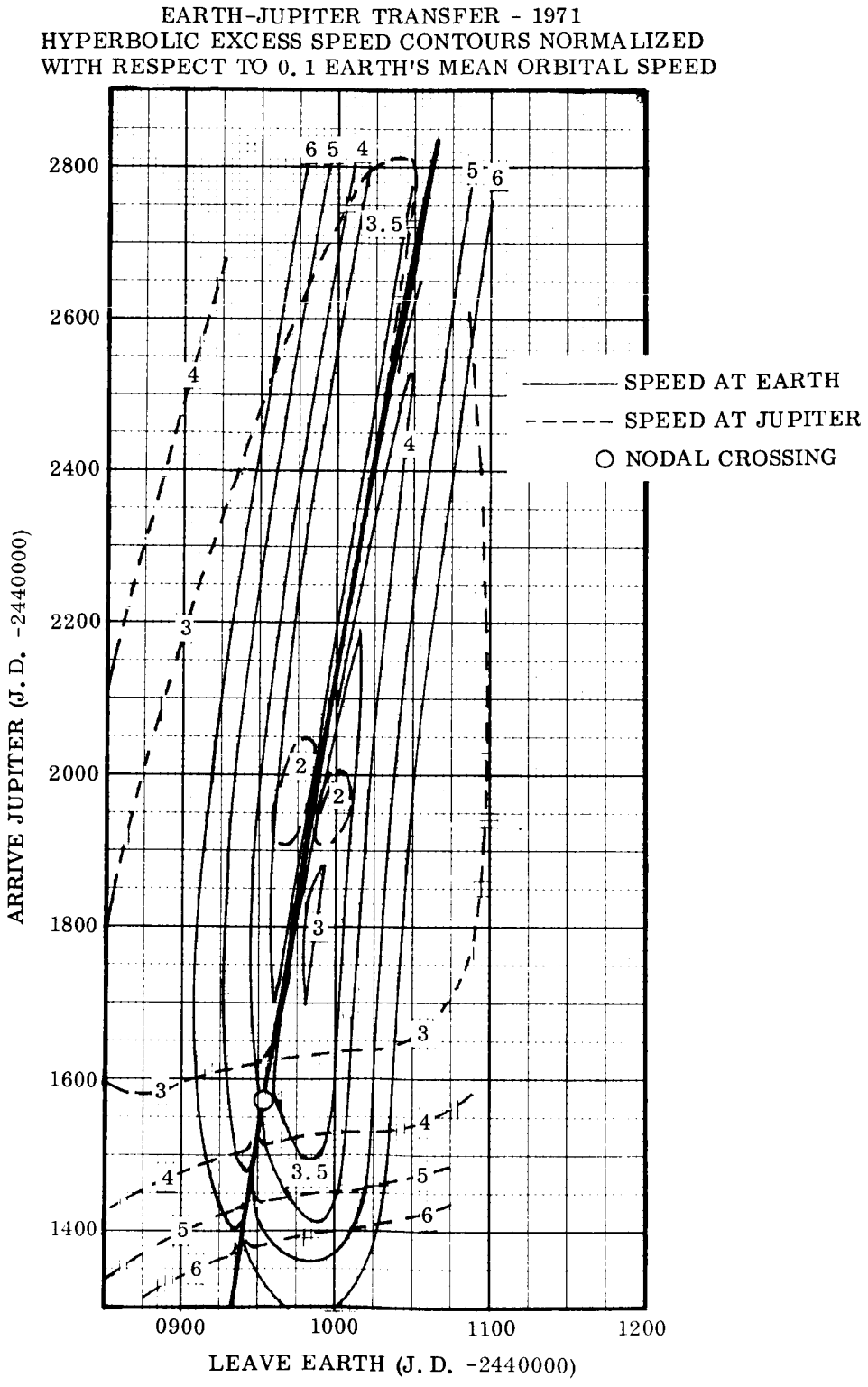

Fig. 2-2 Earth-Jupiter Transfer (1971)

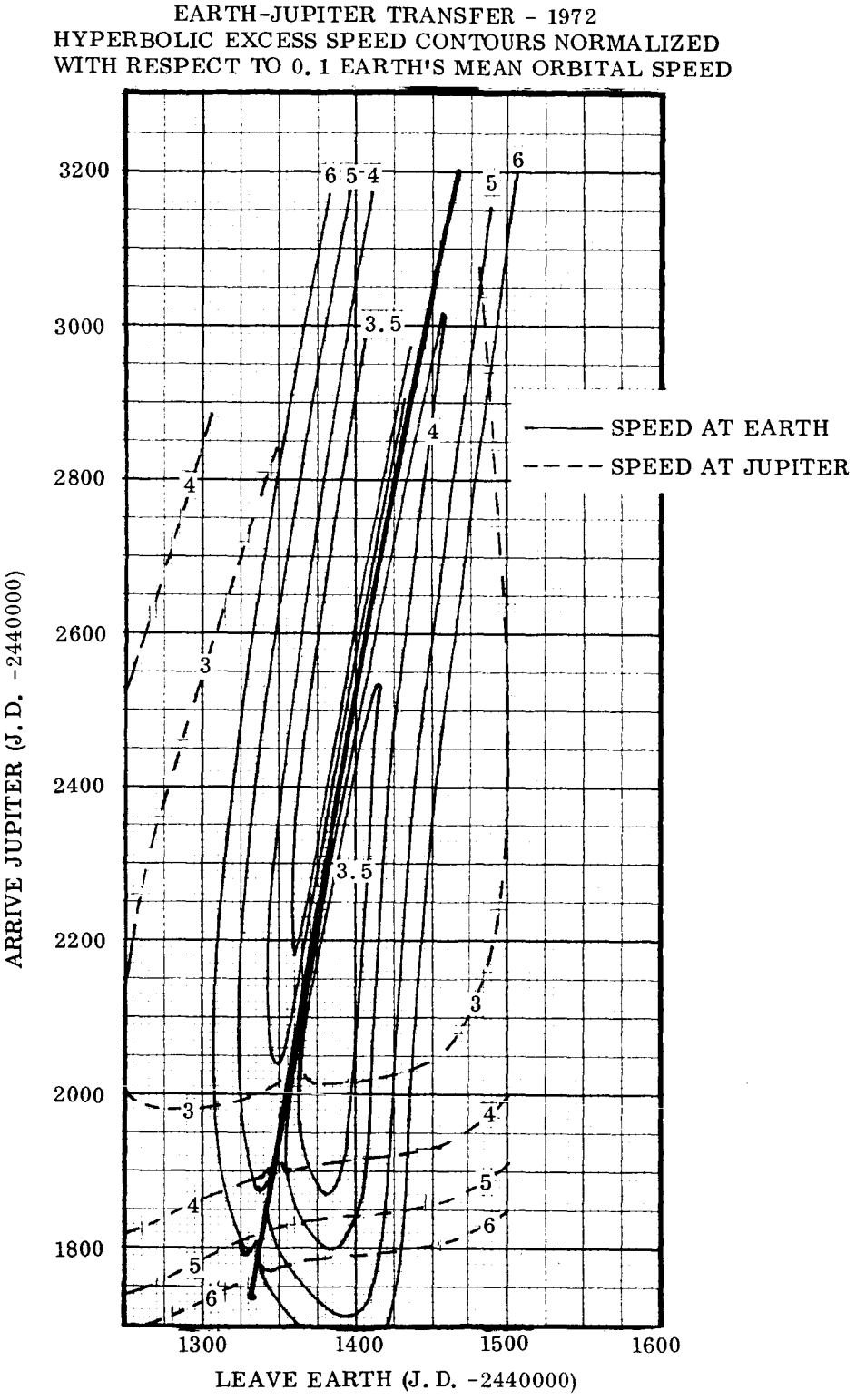

Fig. 2-3 Earth-Jupiter Transfer (1972)

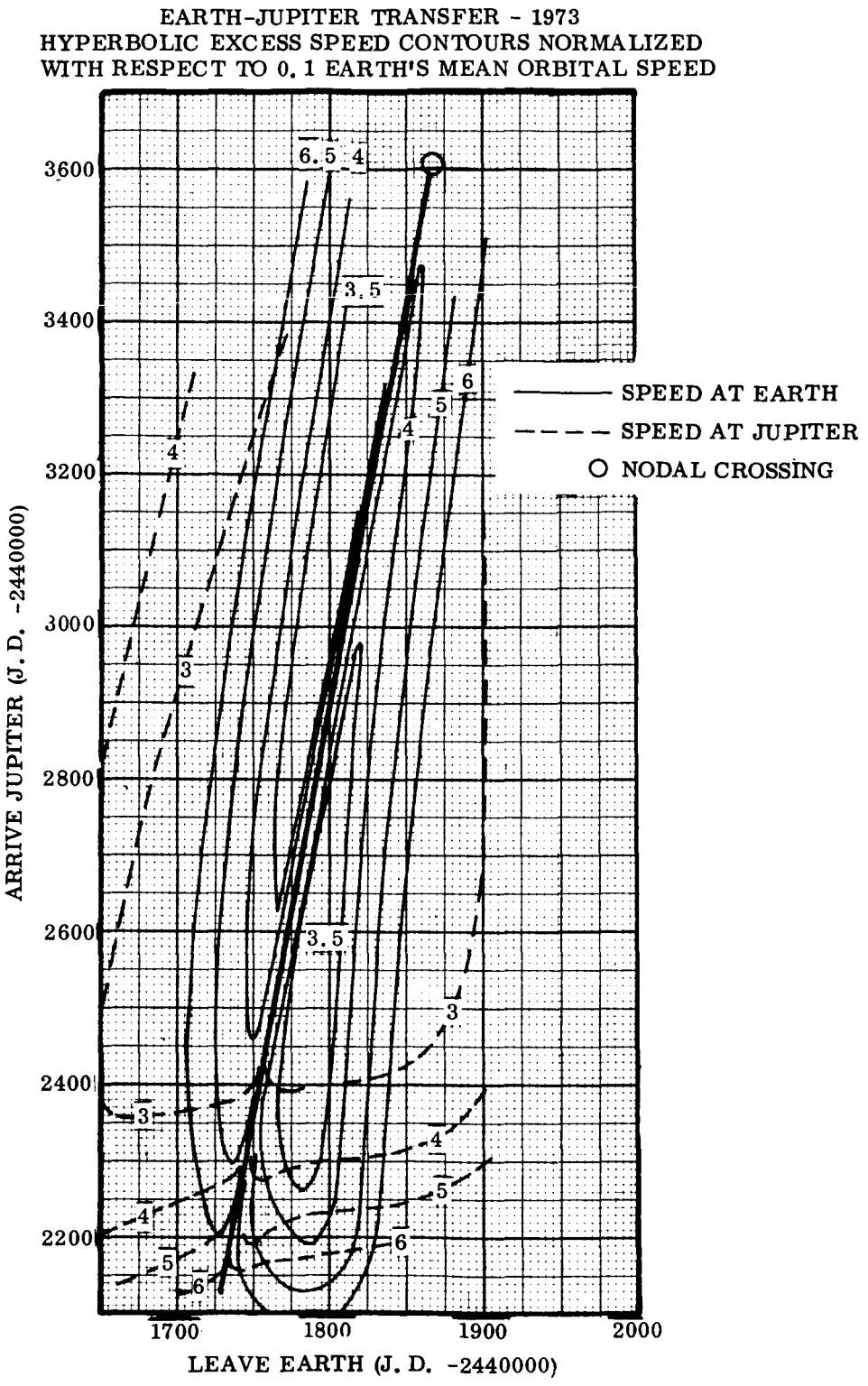

Fig. 2-4 Earth-Jupiter Transfer (1973)

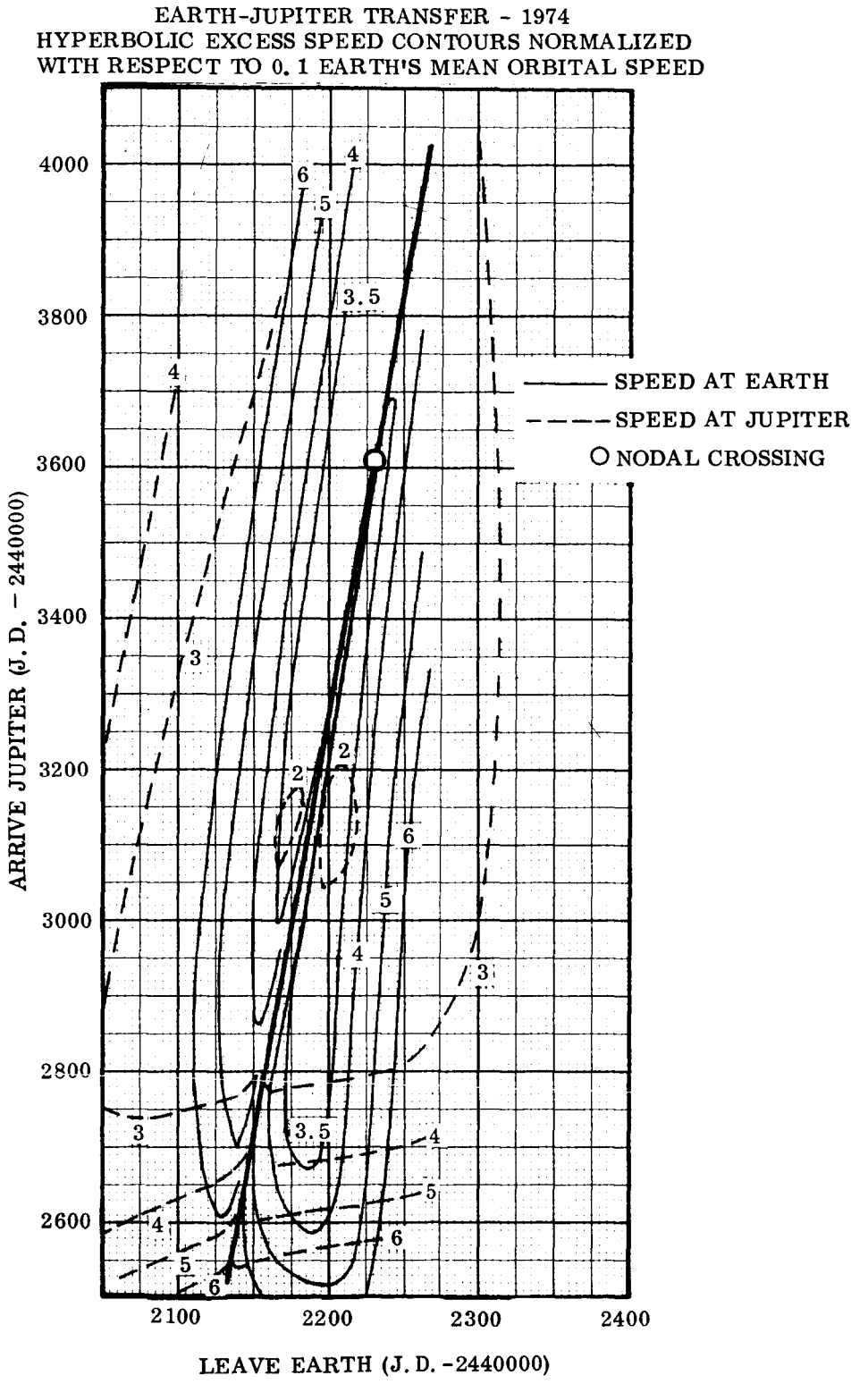

Fig. 2-5 Earth-Jupiter Transfer (1974)

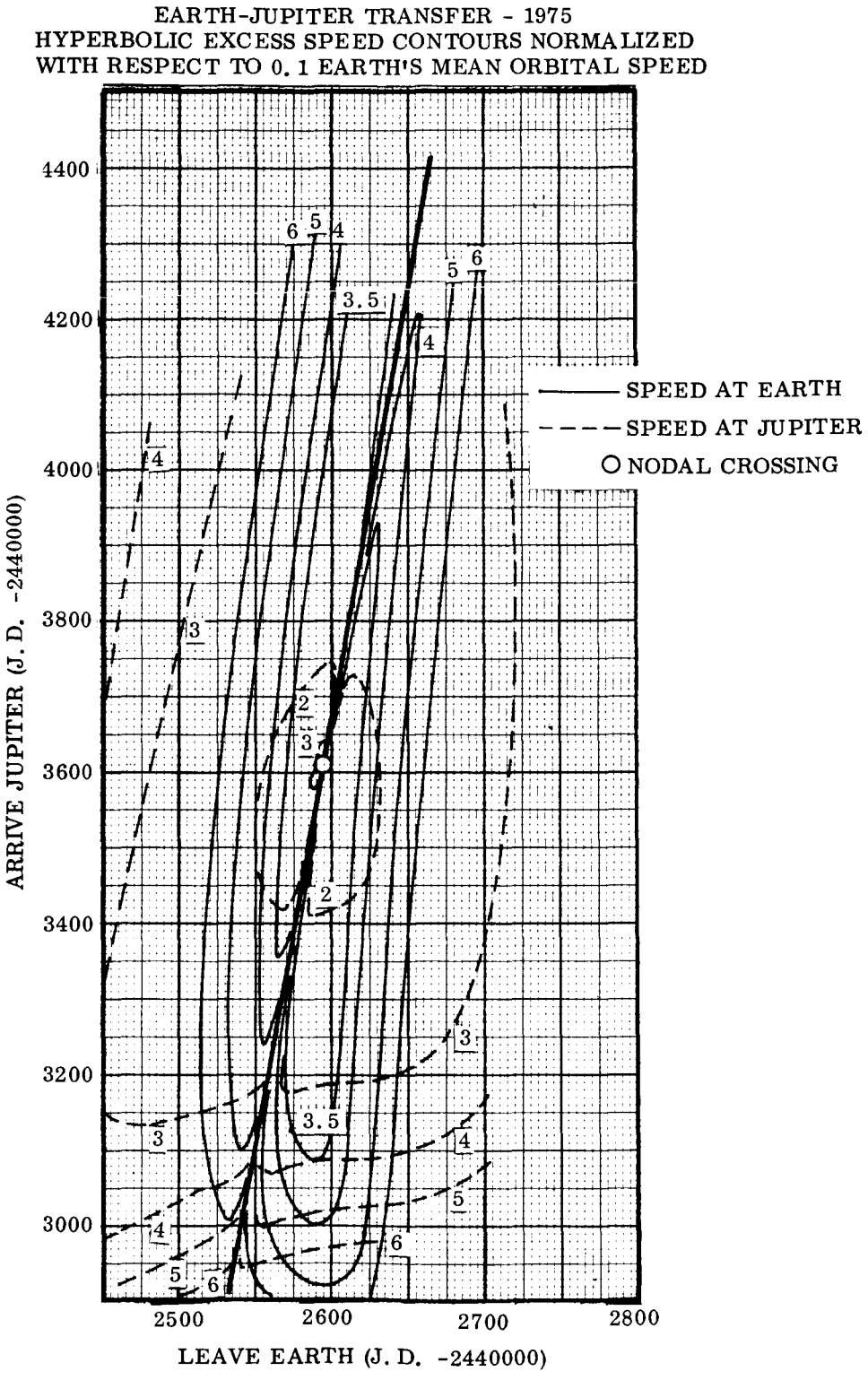

Fig. 2-6 Earth-Jupiter Transfer (1975)

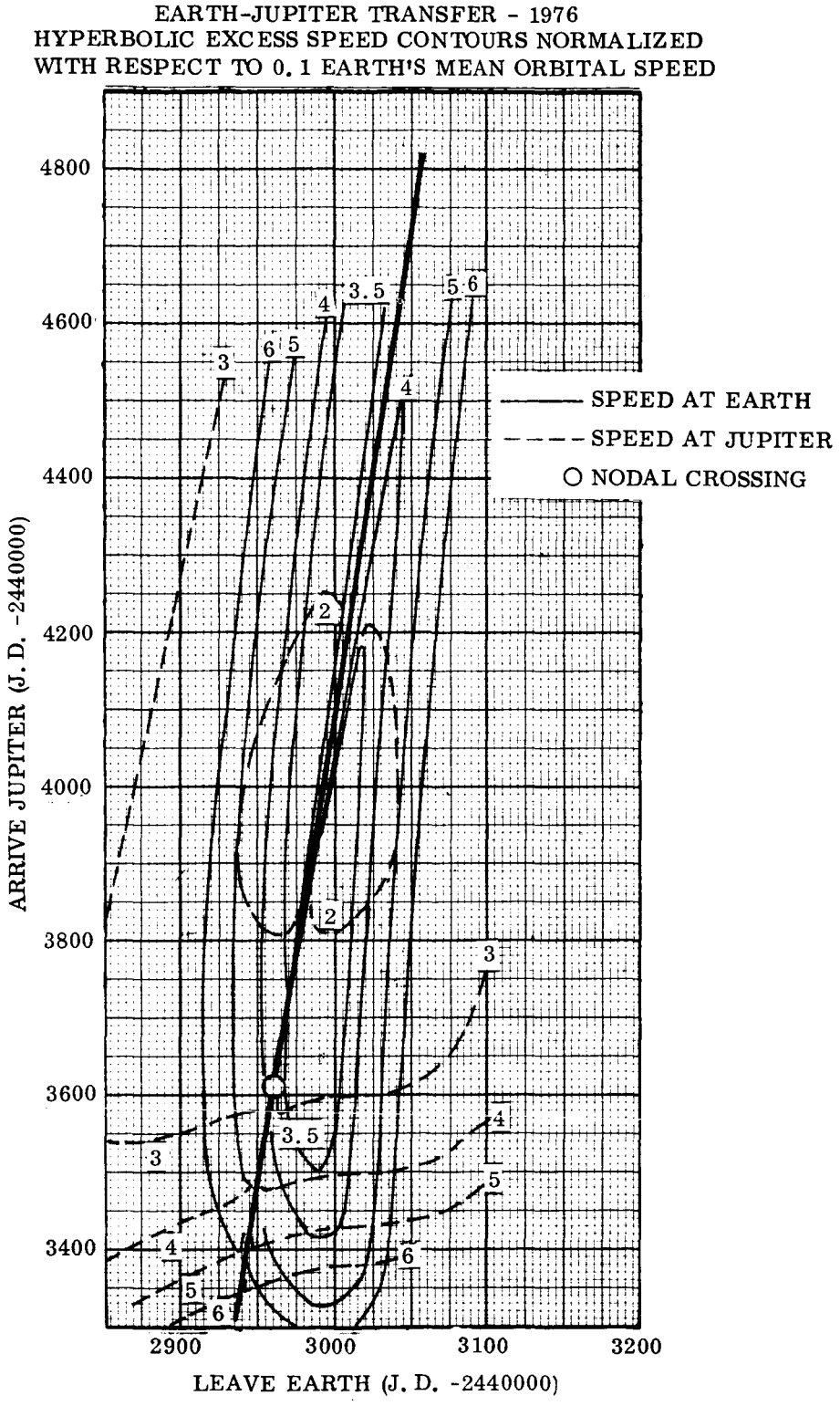

Fig. 2-7 Earth-Jupiter Transfer (1976)

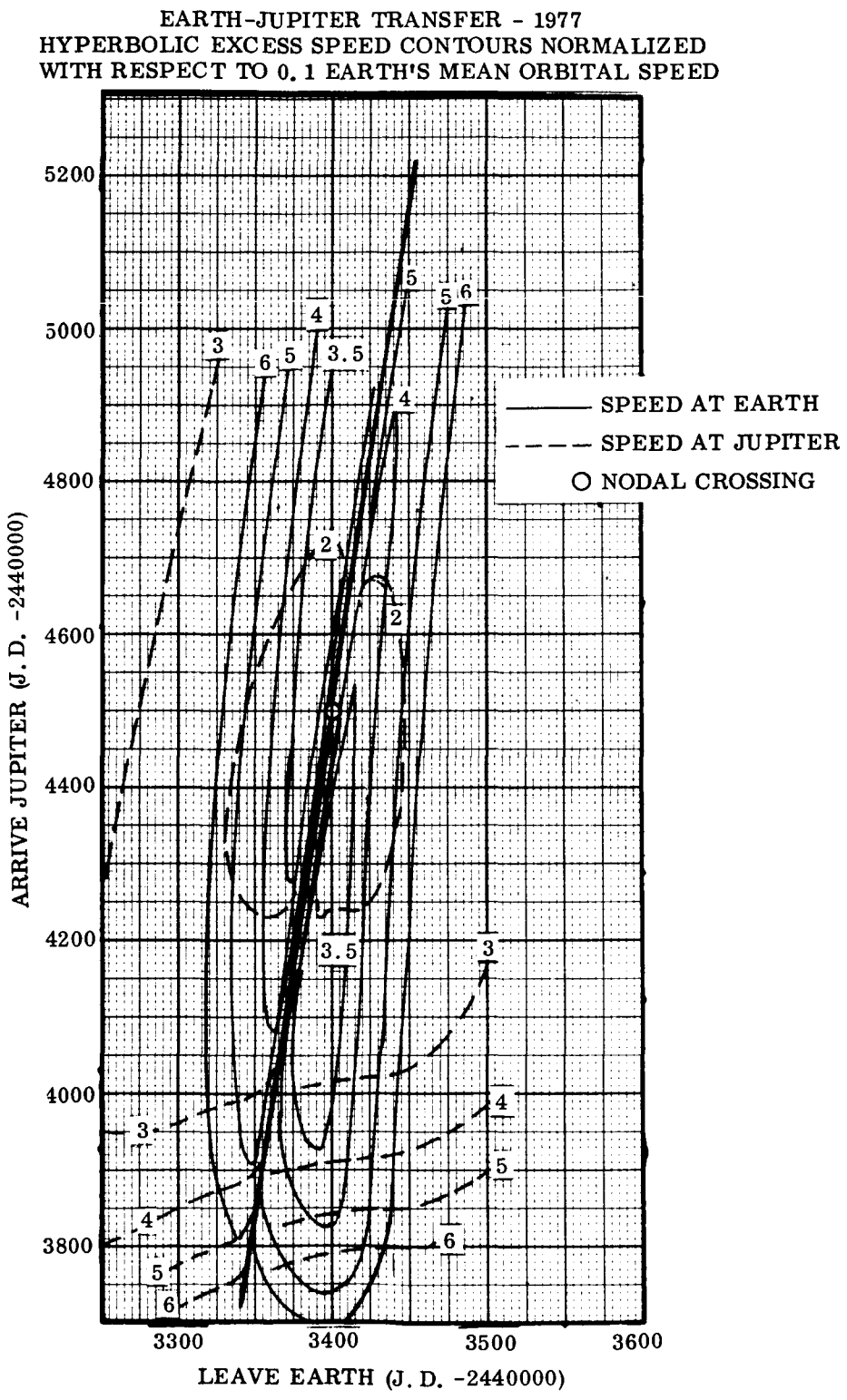

Fig. 2-8 Earth-Jupiter Transfer (1977)

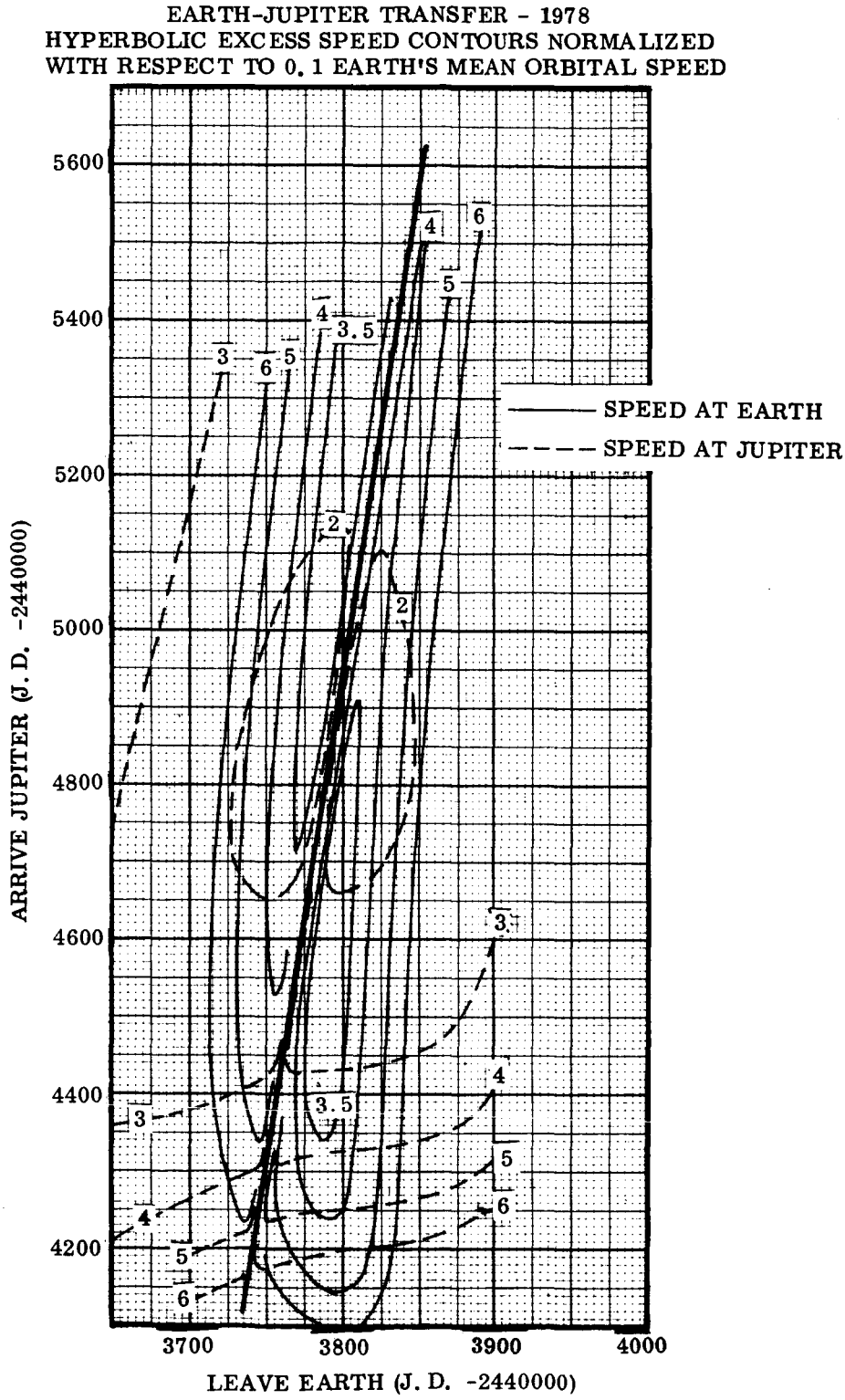

Fig. 2-9 Earth-Jupiter Transfer (1978)

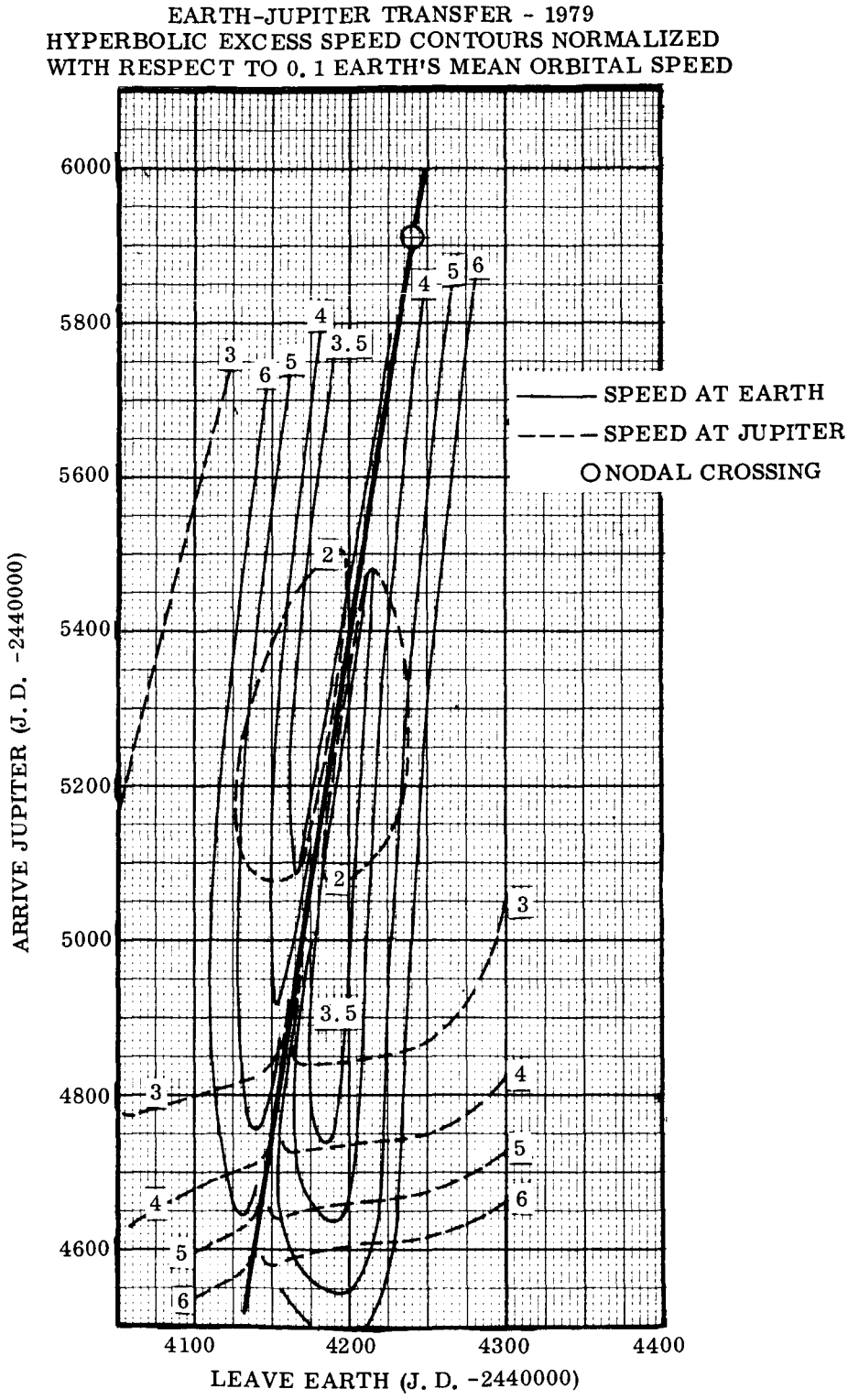

Fig. 2-10 Earth-Jupiter Transfer (1979)

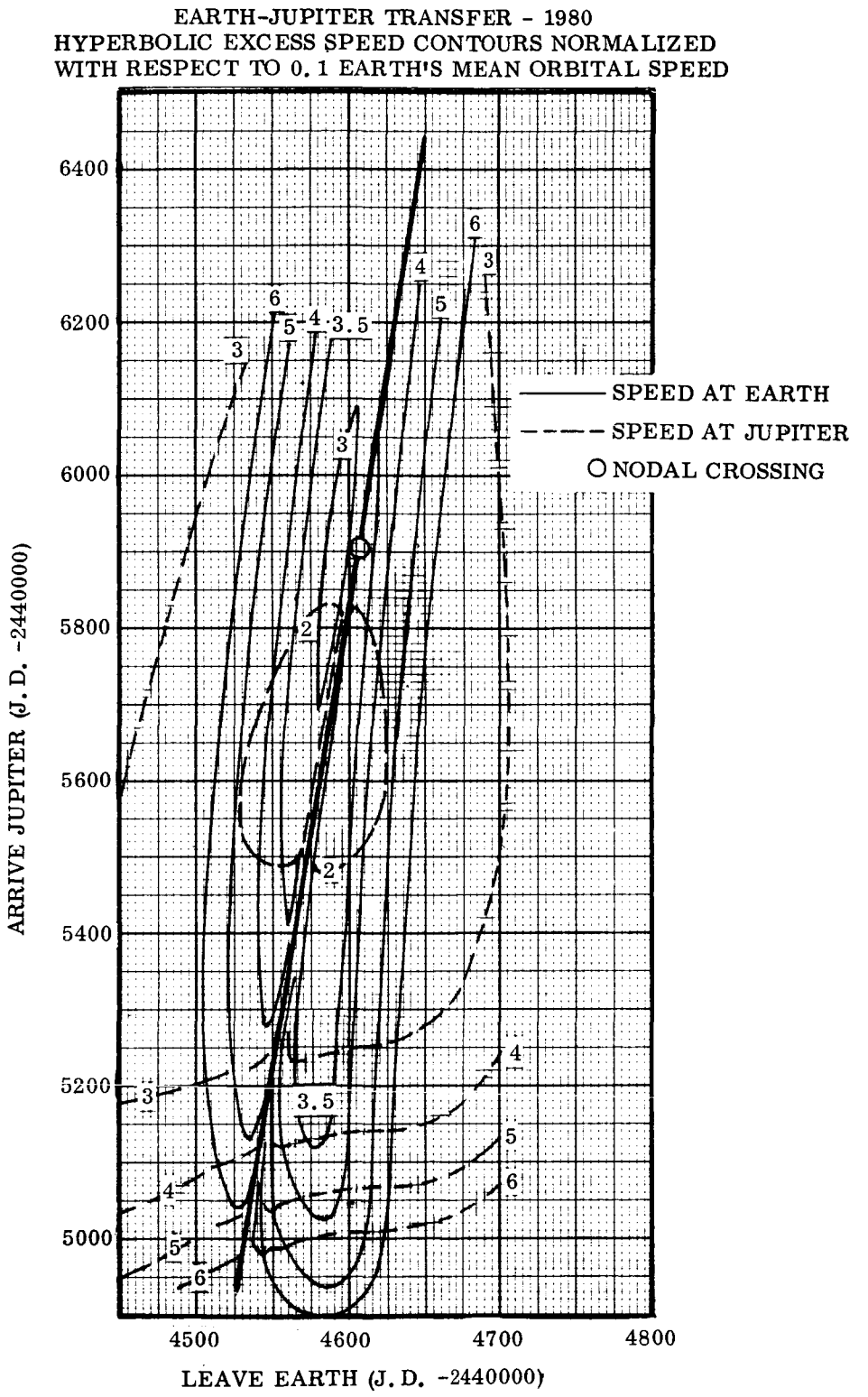

Fig. 2-11 Earth-Jupiter Transfer (1980)

EARTH-CERES HYPERBOLIC EXCESS SPEED

CONTOUR CHARTS

FOR THE YEARS 1970-1980

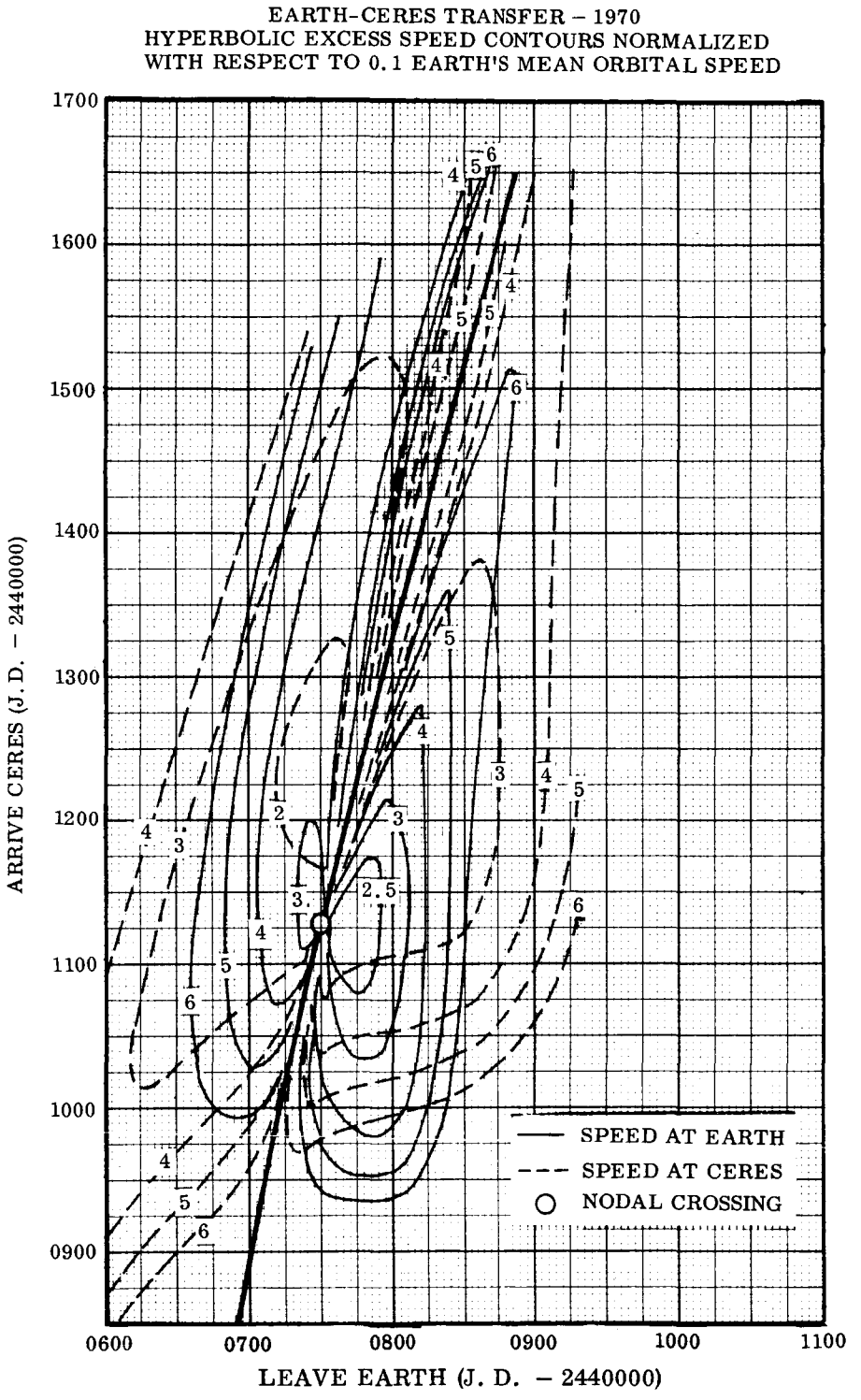

Fig. 2-12 Earth-Ceres Transfer (1970)

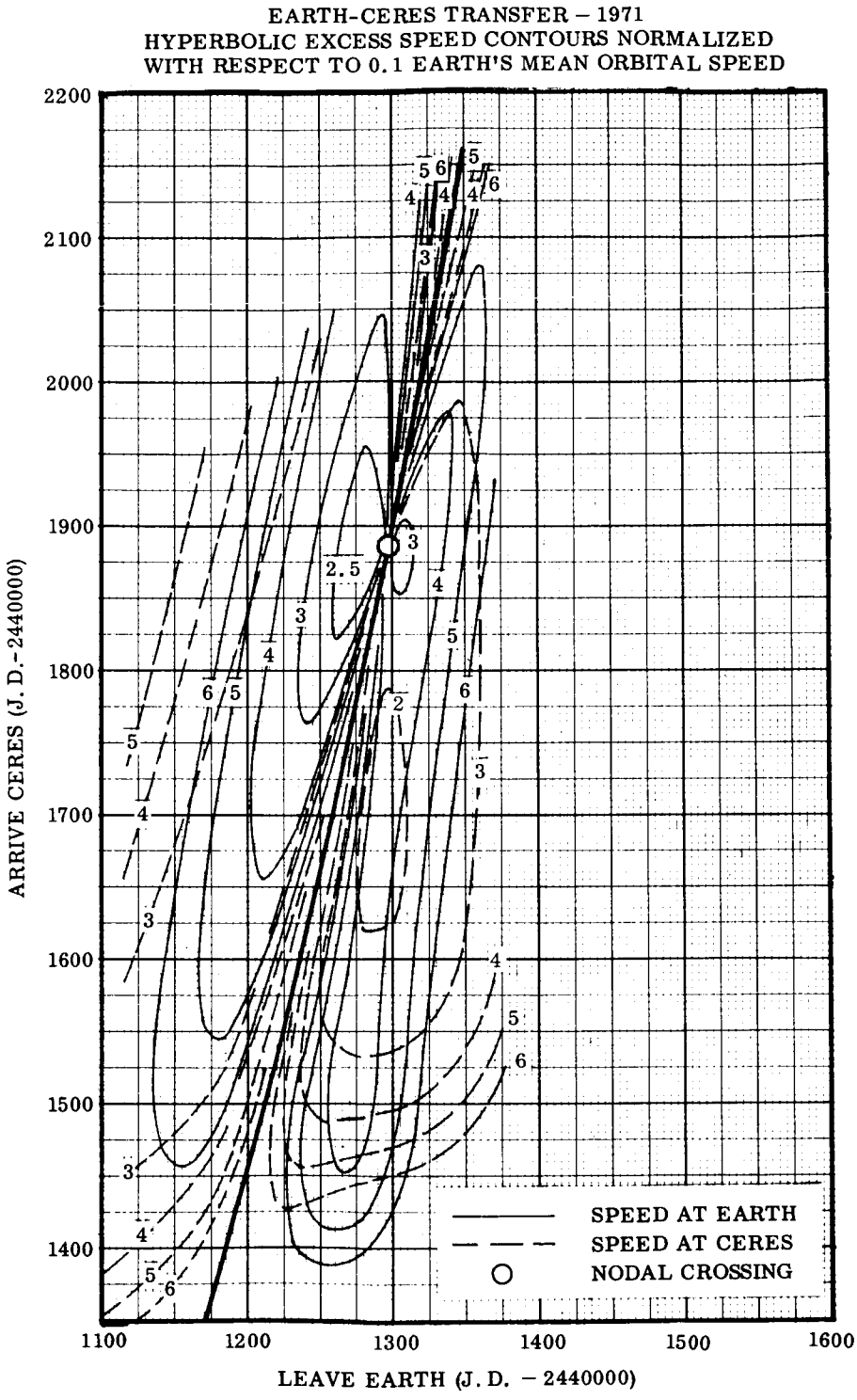

Fig. 2-13 Earth-Ceres Transfer (1971)

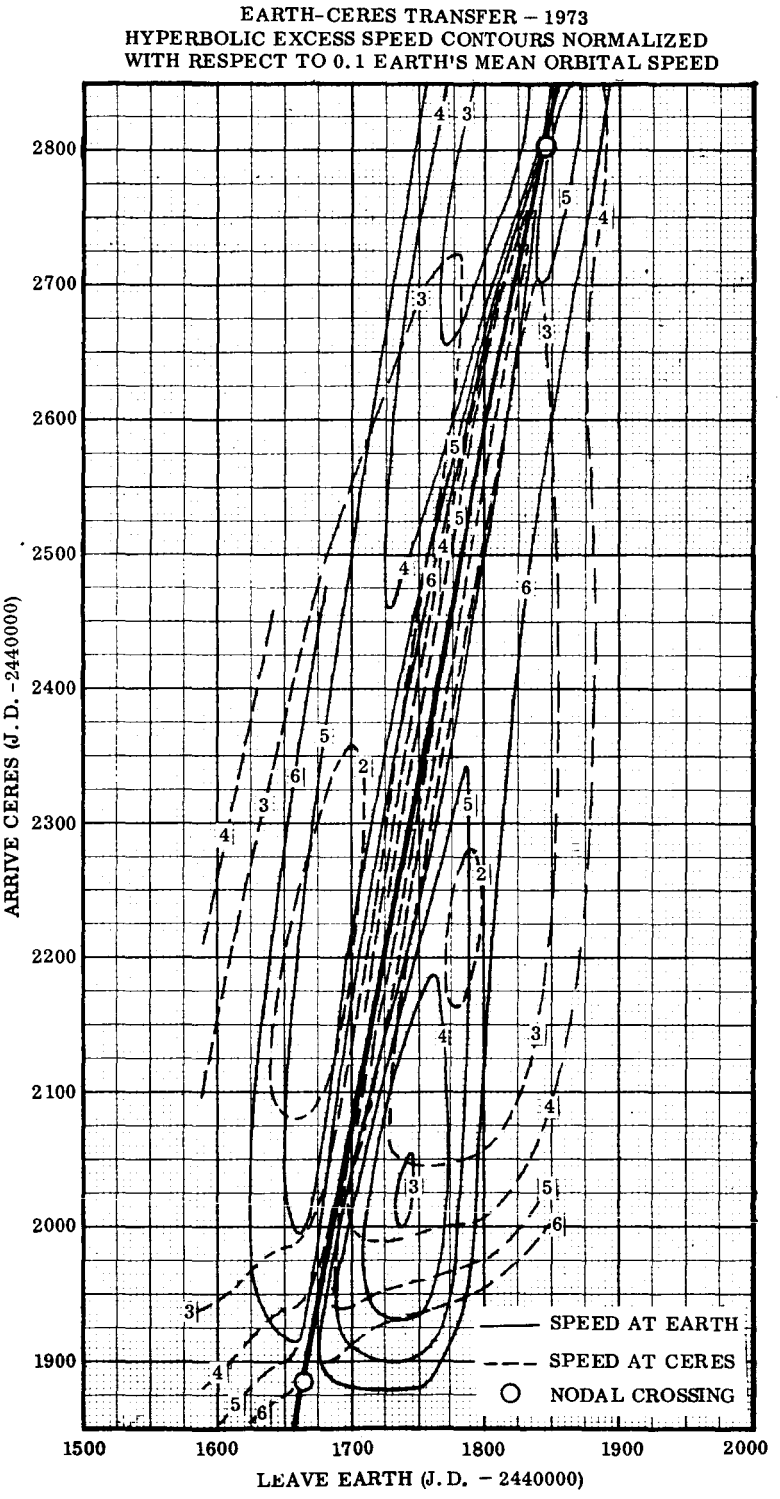

Fig. 2-14 Earth-Ceres Transfer (1973)

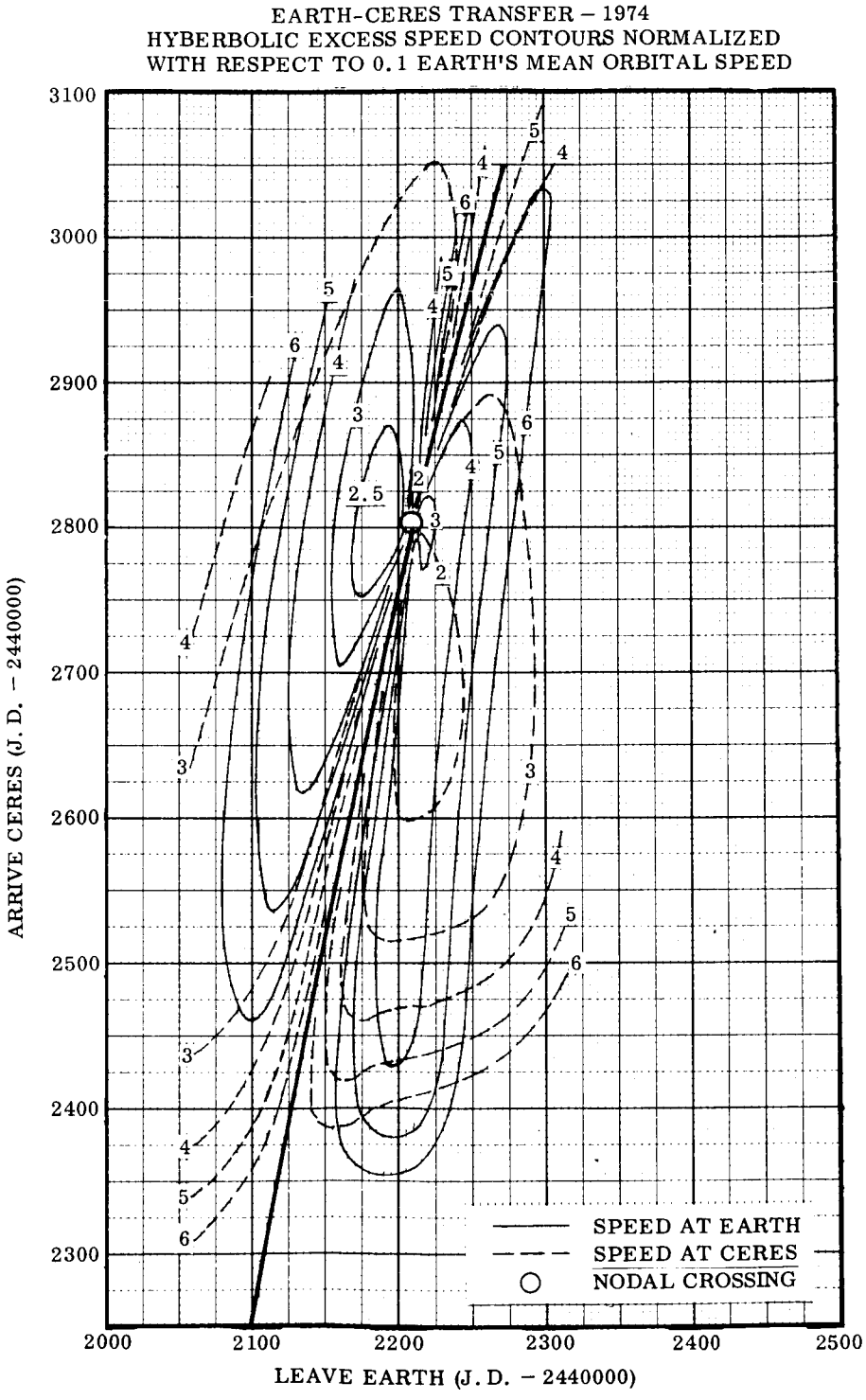

Fig. 2-15 Earth-Ceres Transfer (1974)

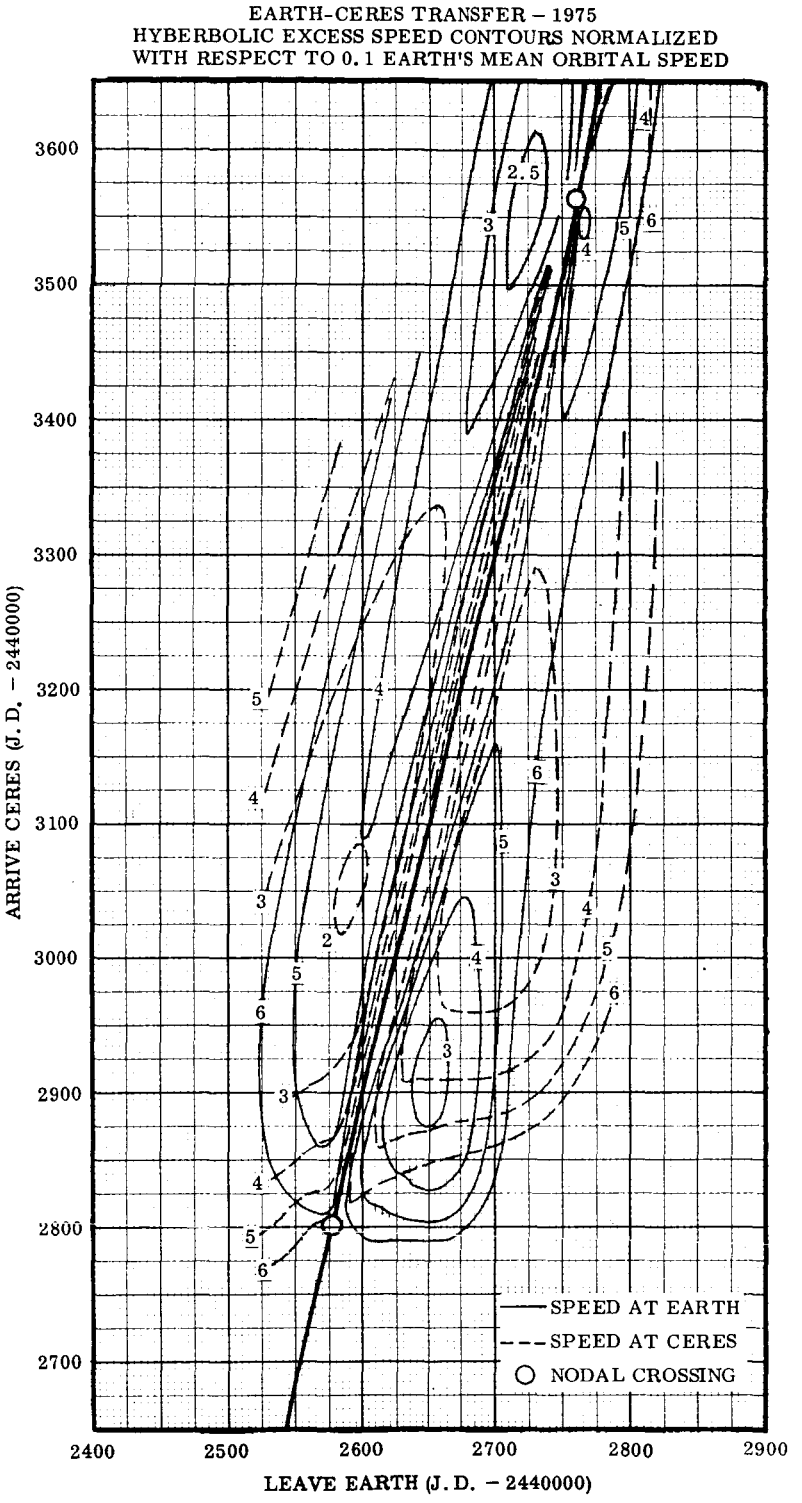

Fig. 2-16 Earth-Ceres Transfer (1975)

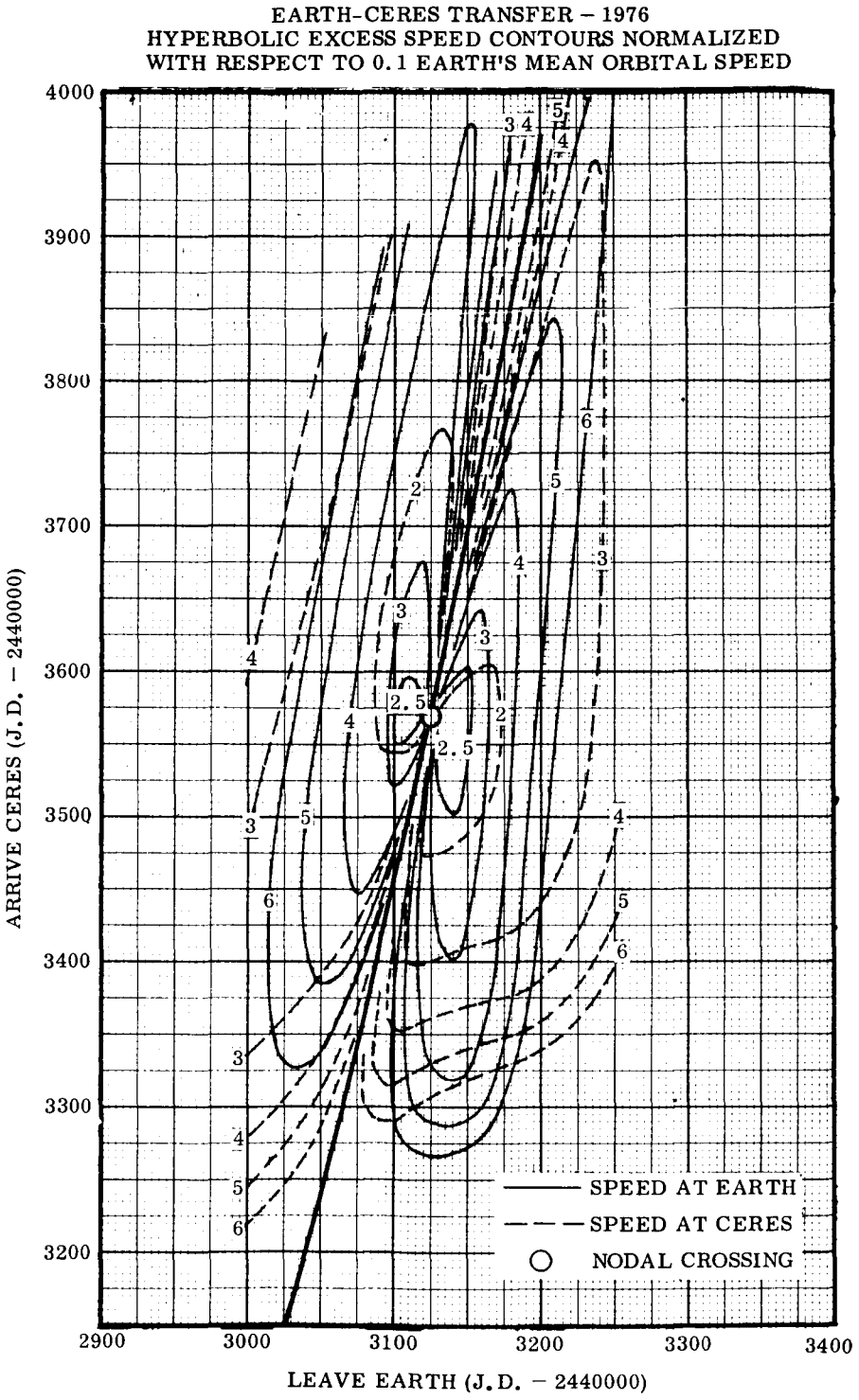

Fig. 2-17 Earth-Ceres Transfer (1976)

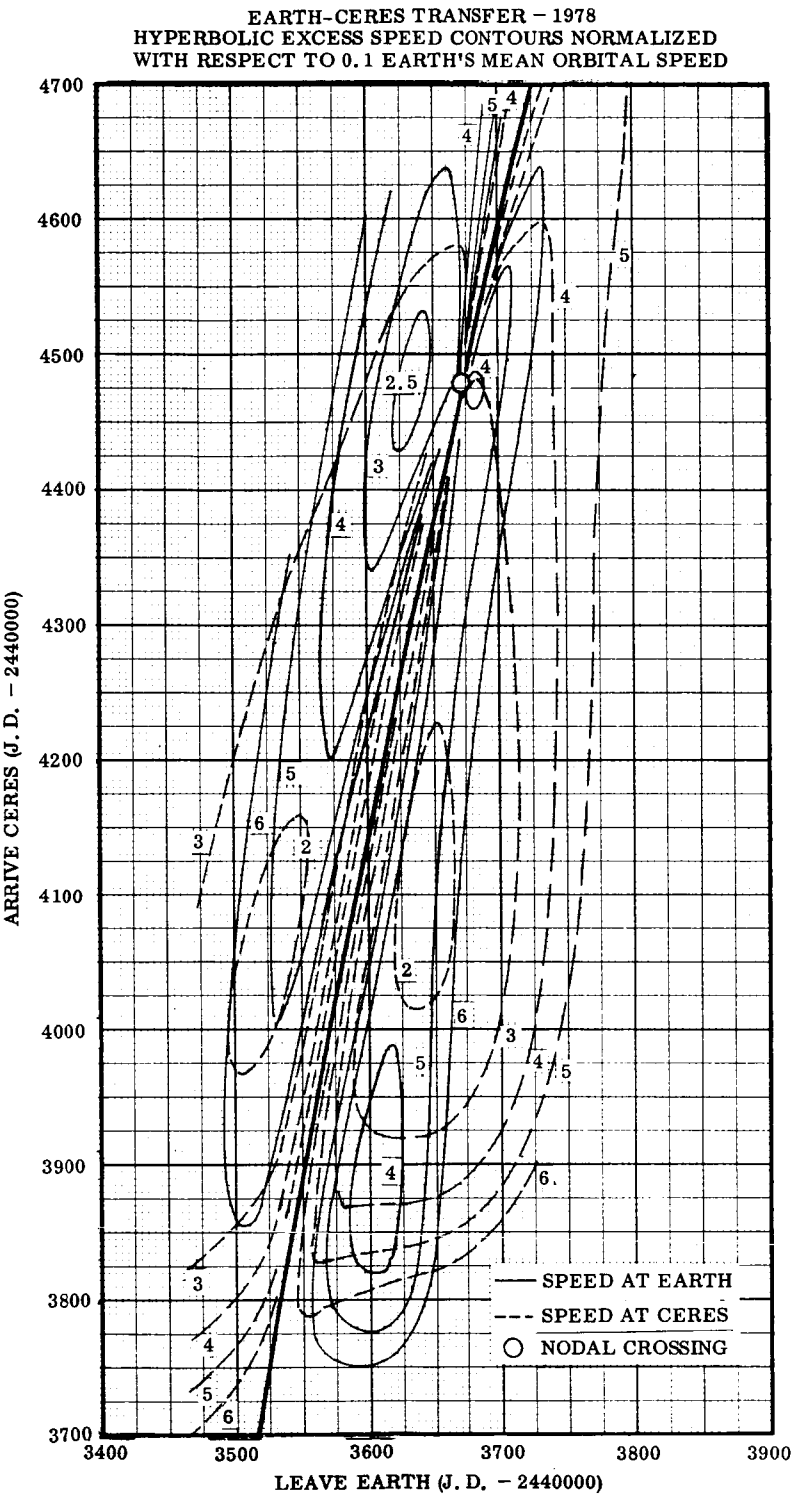

Fig. 2-18 Earth-Ceres Transfer (1978)

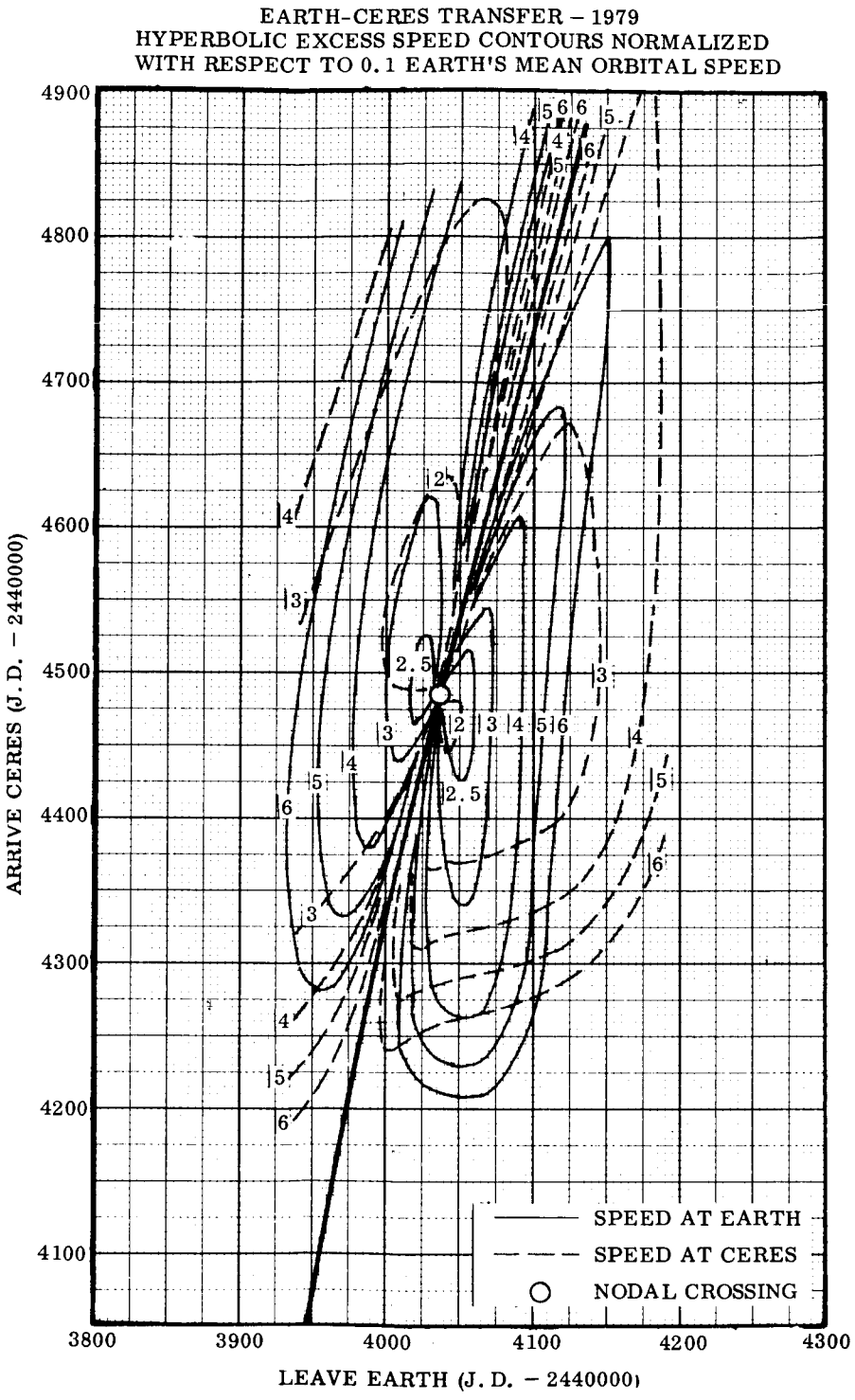

Fig. 2-19 Earth-Ceres Transfer (1979)

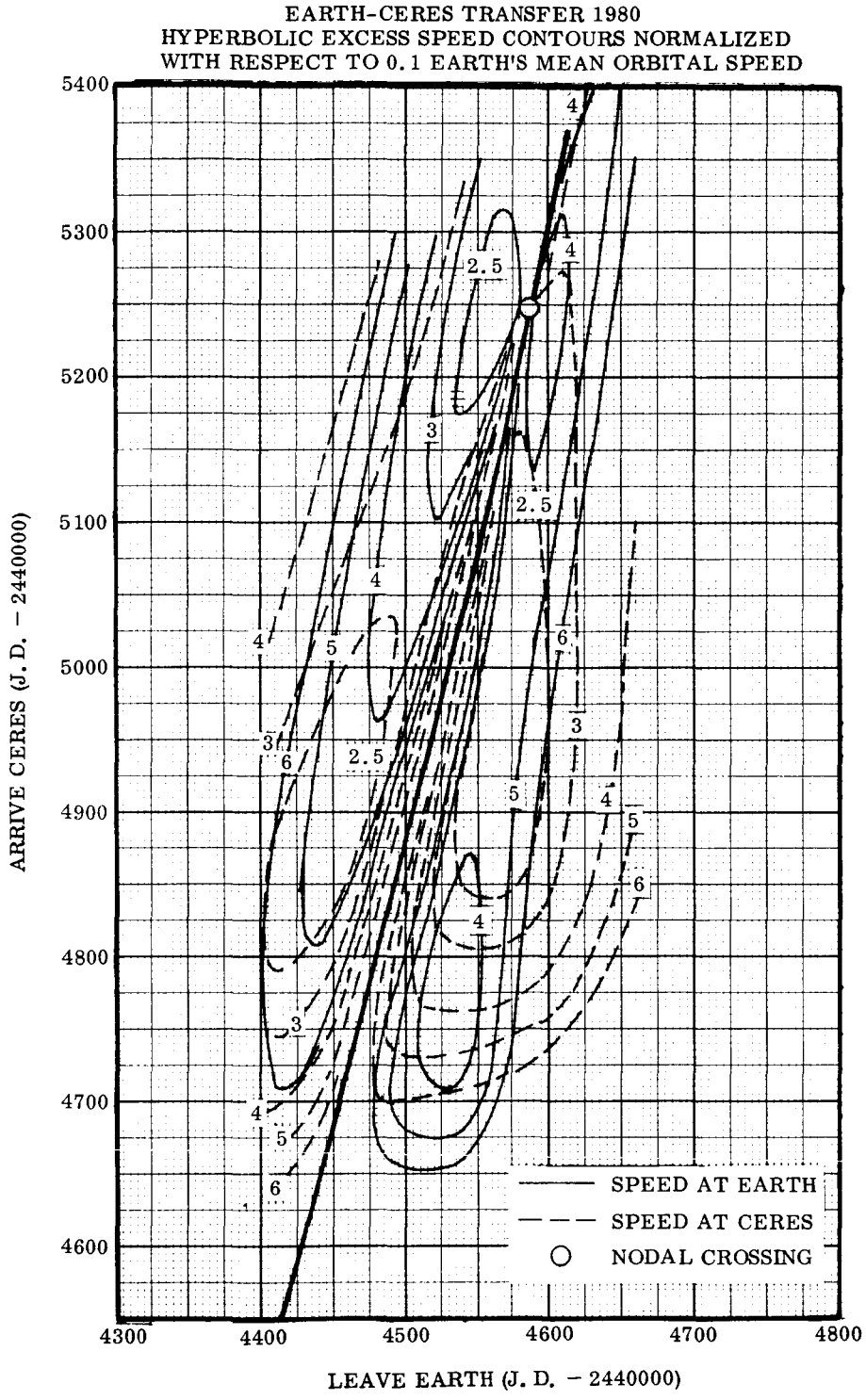

Fig. 2-20 Earth-Ceres Transfer (1980)

EARTH-VESTA HYPERBOLIC EXCESS SPEED

CONTOUR CHARTS

FOR THE YEARS 1969-1980

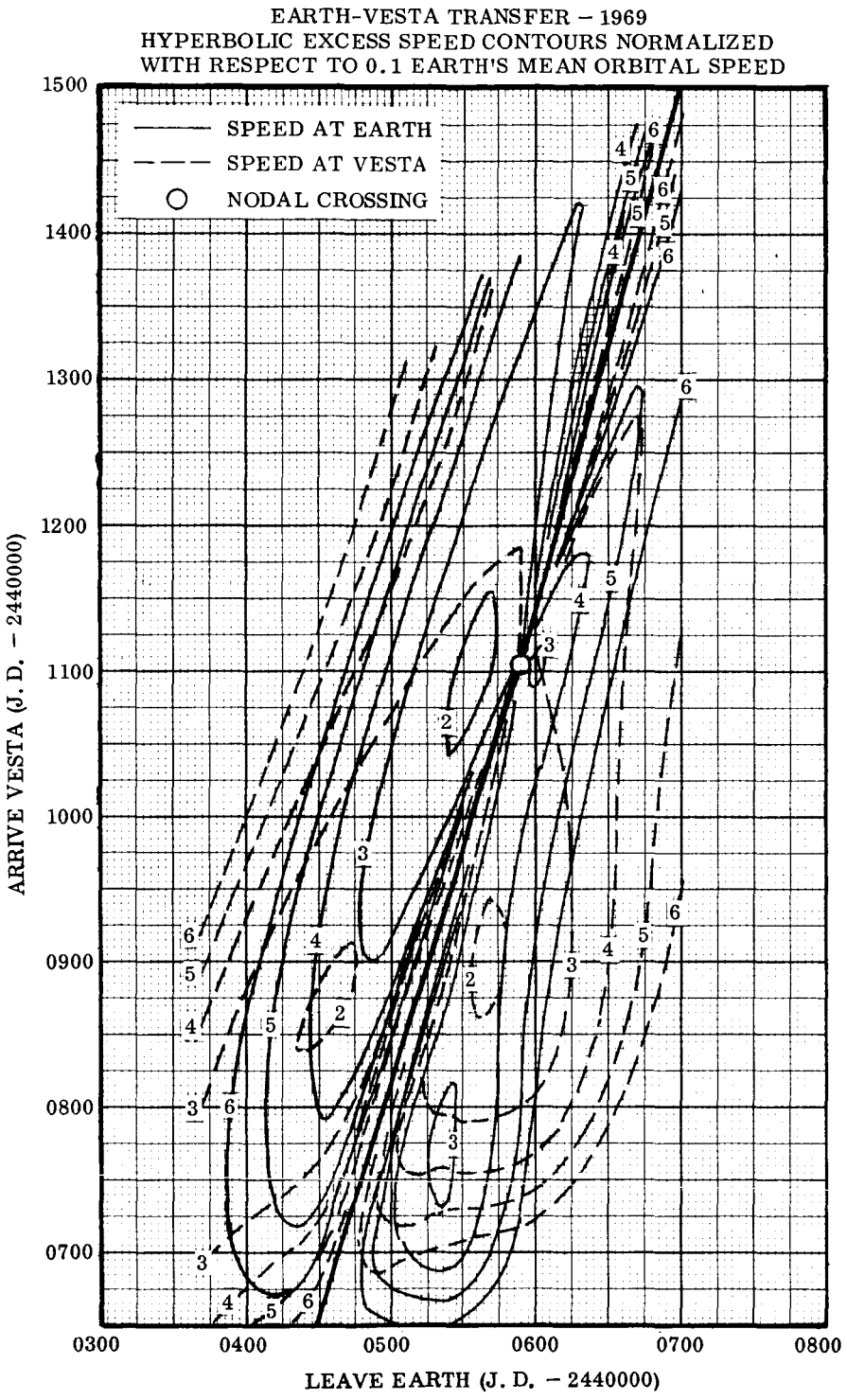

Fig. 2-21 Earth-Vesta Transfer (1969)

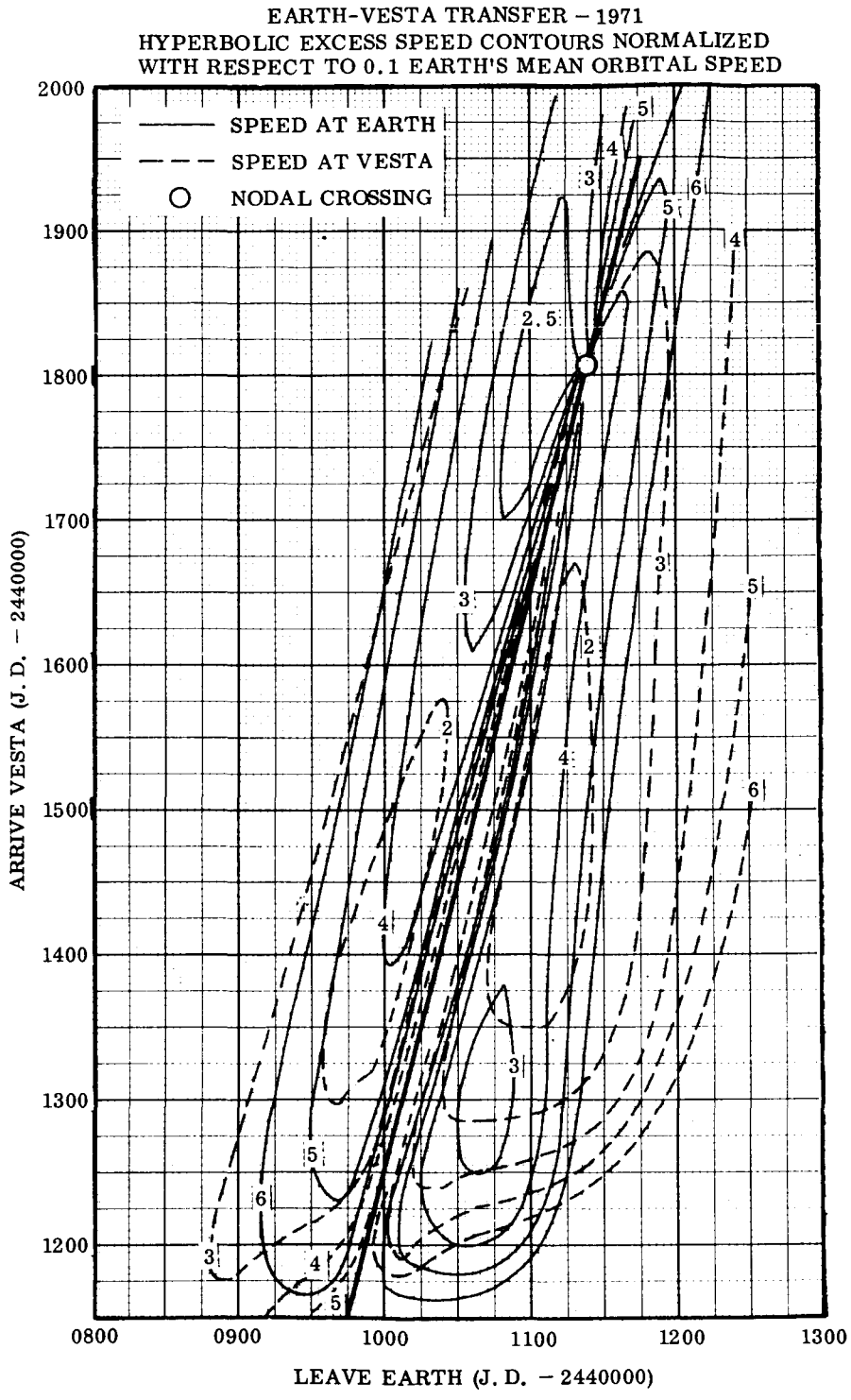

Fig. 2-22 Earth-Vesta Transfer (1971)

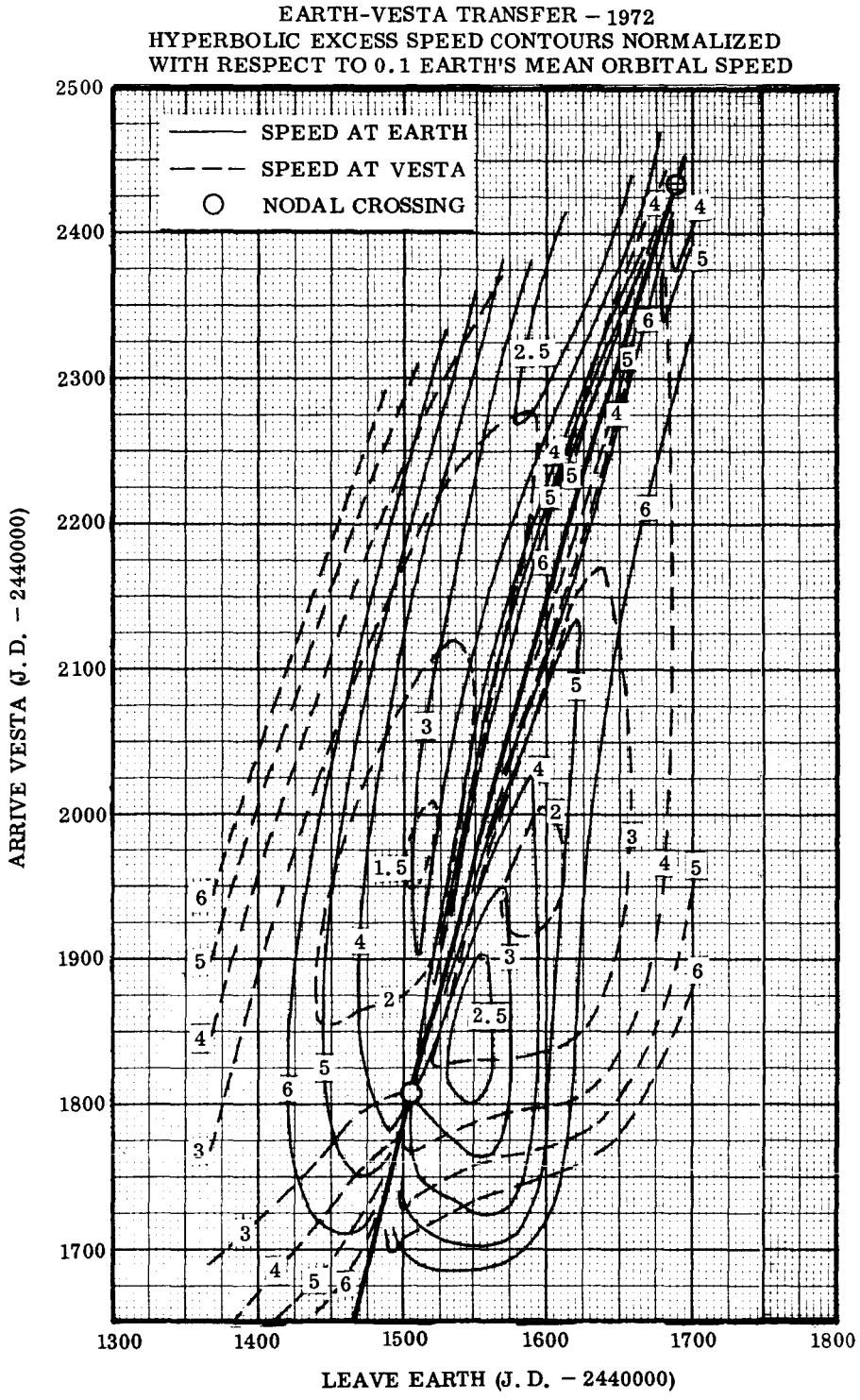

Fig. 2-23 Earth-Vesta Transfer (1972)

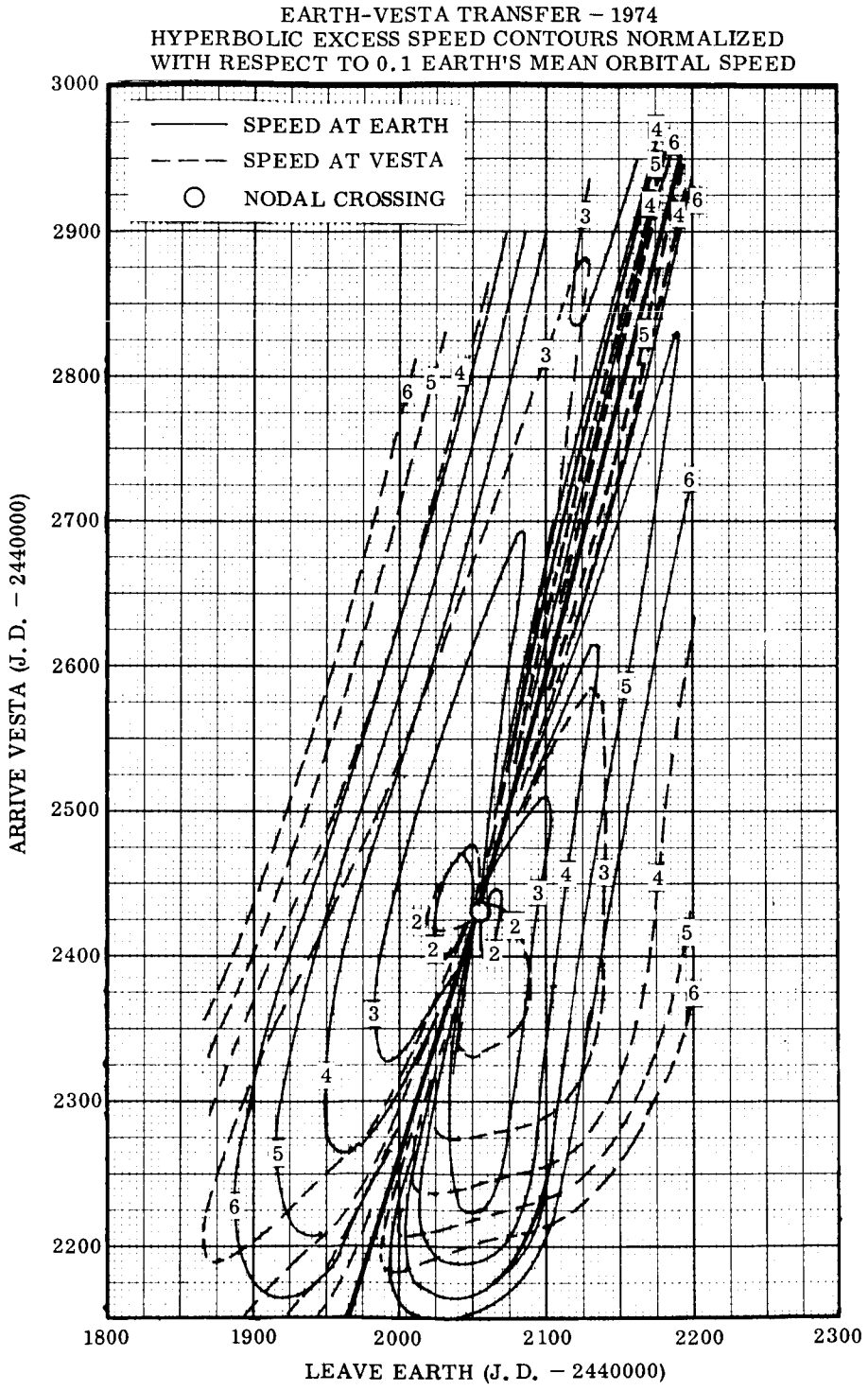

Fig. 2-24 Earth-Vesta Transfer (1974)

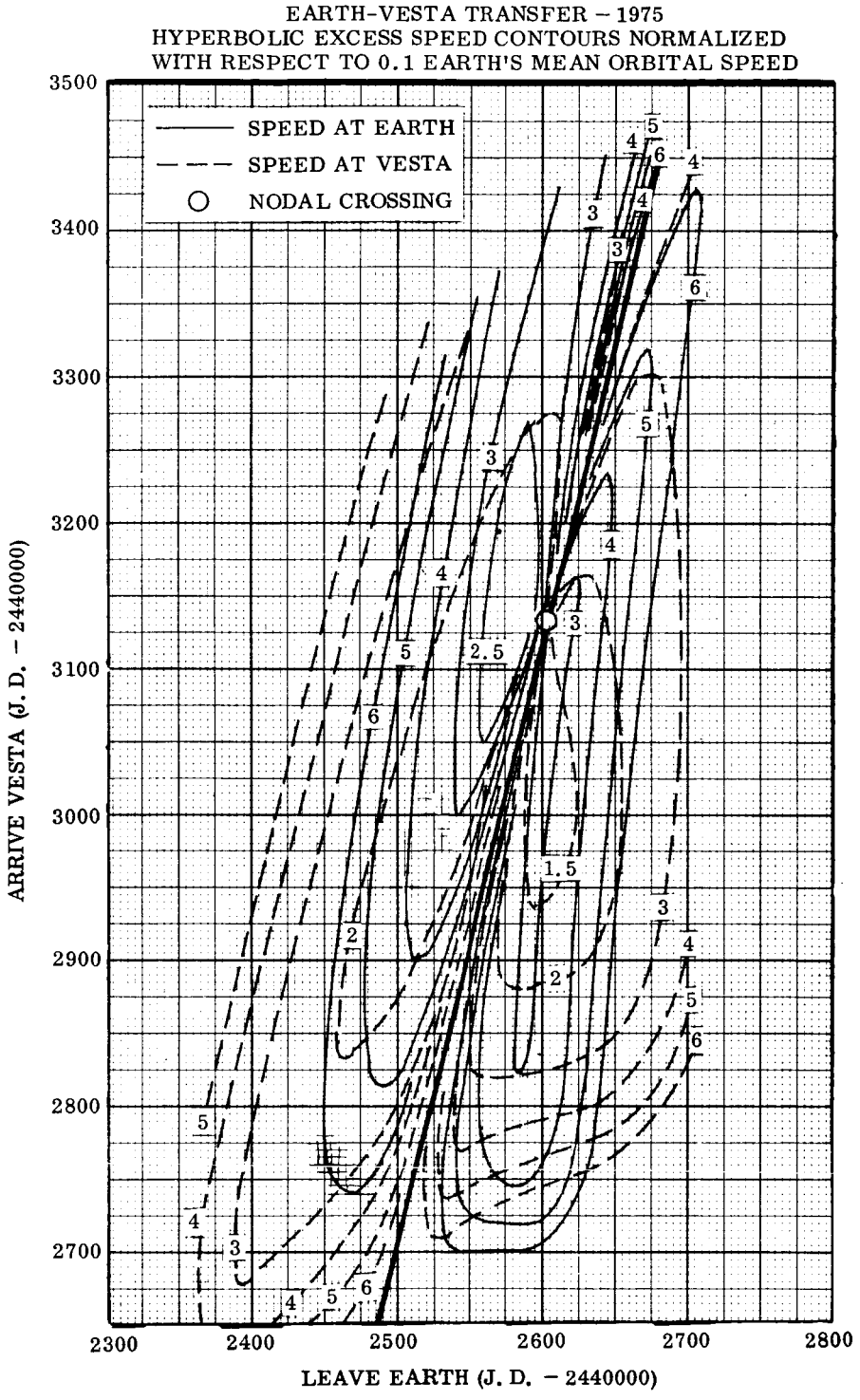

Fig. 2-25 Earth-Vesta Transfer (1975)

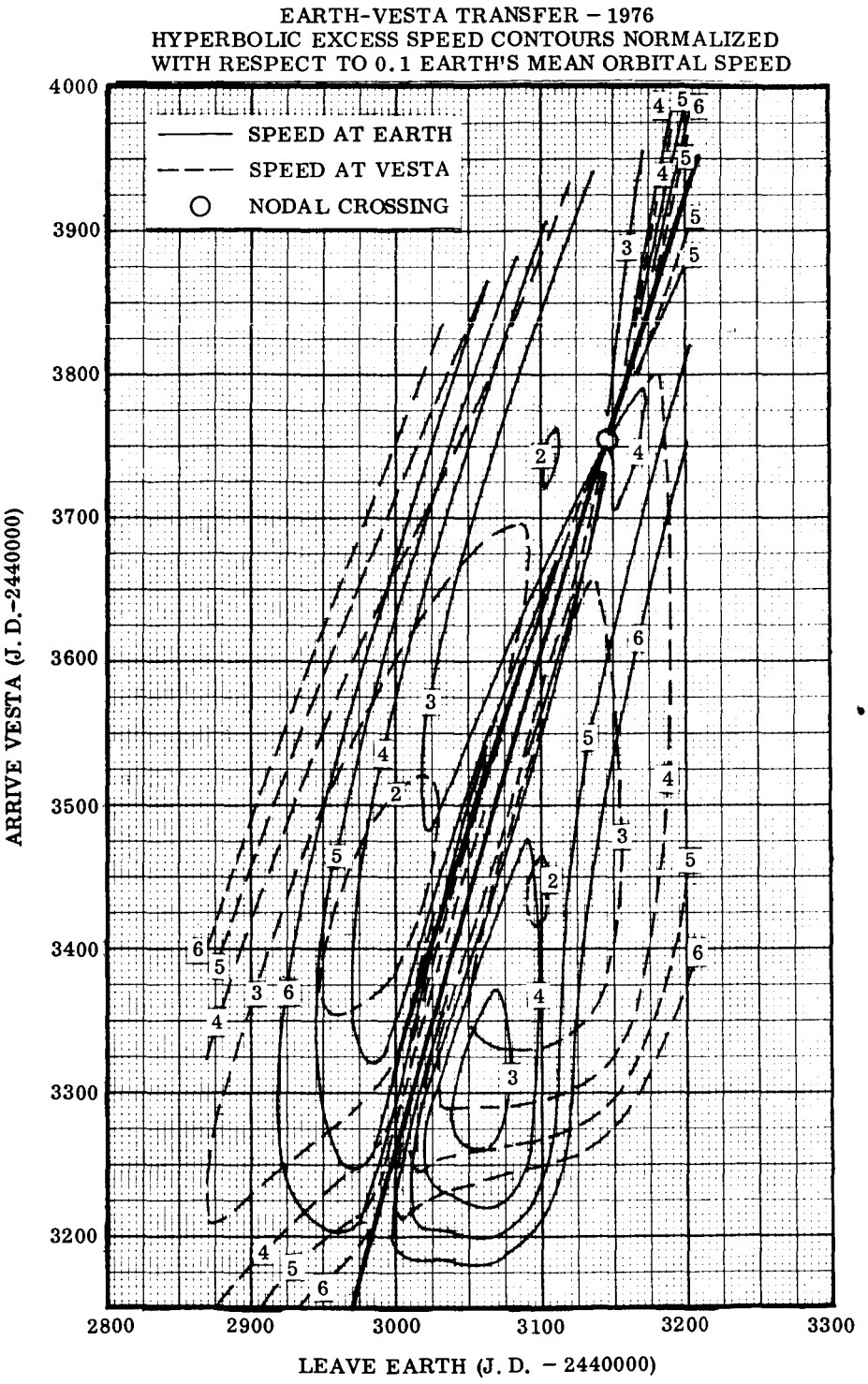

Fig. 2-26 Earth-Vesta Transfer (1976)

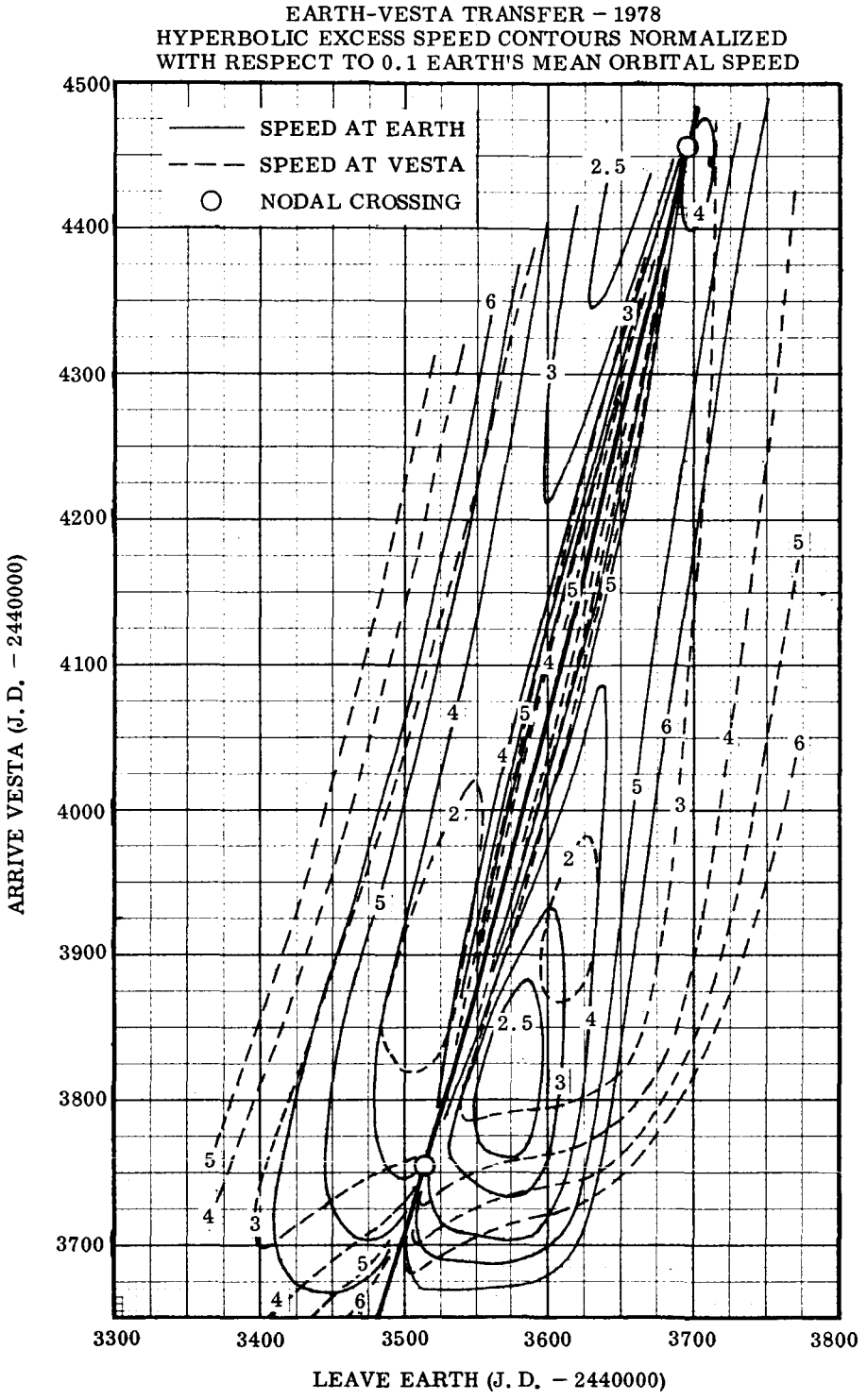

Fig. 2-27 Earth-Vesta Transfer (1978)

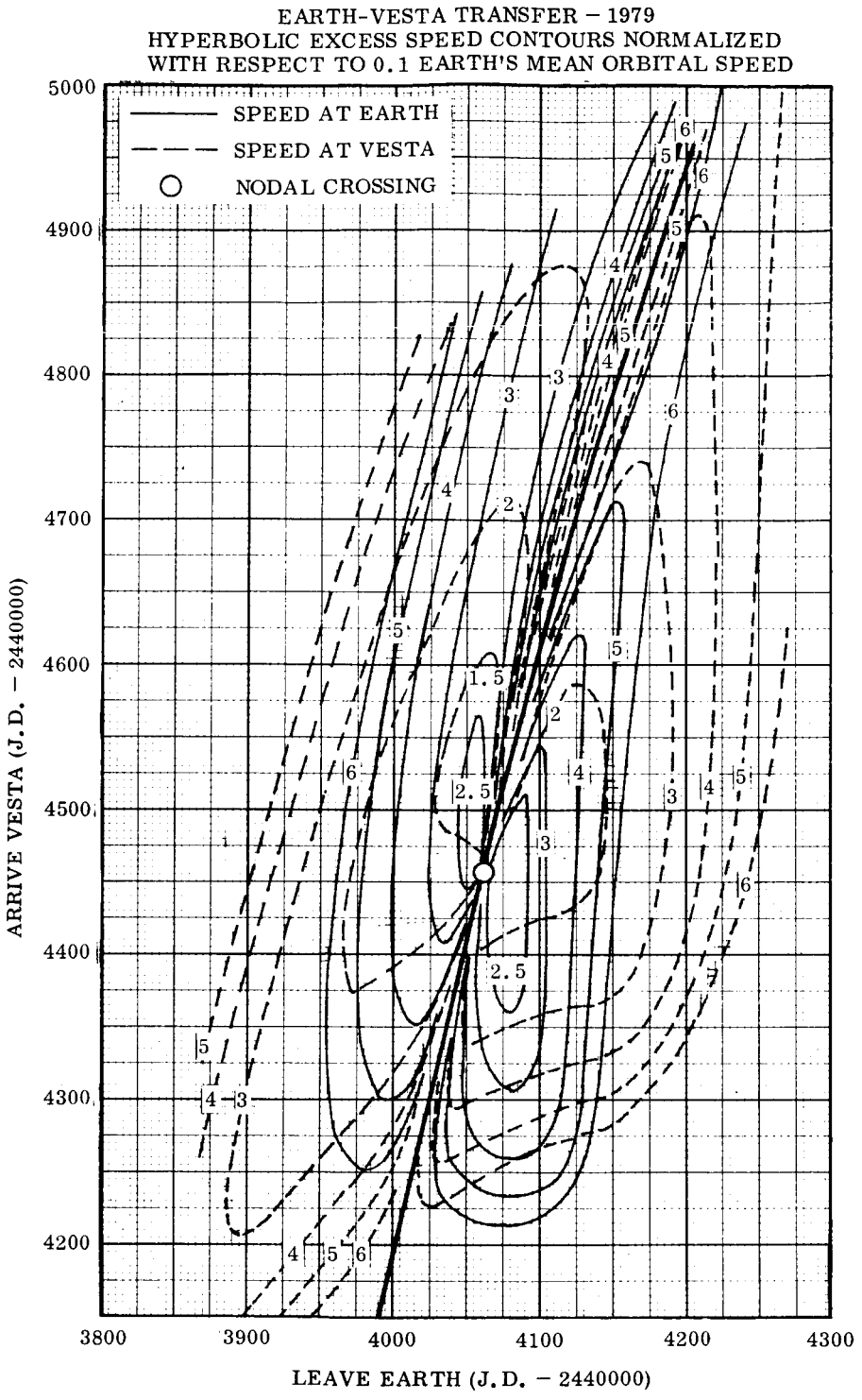

Fig. 2-28 Earth-Vesta Transfer (1979)

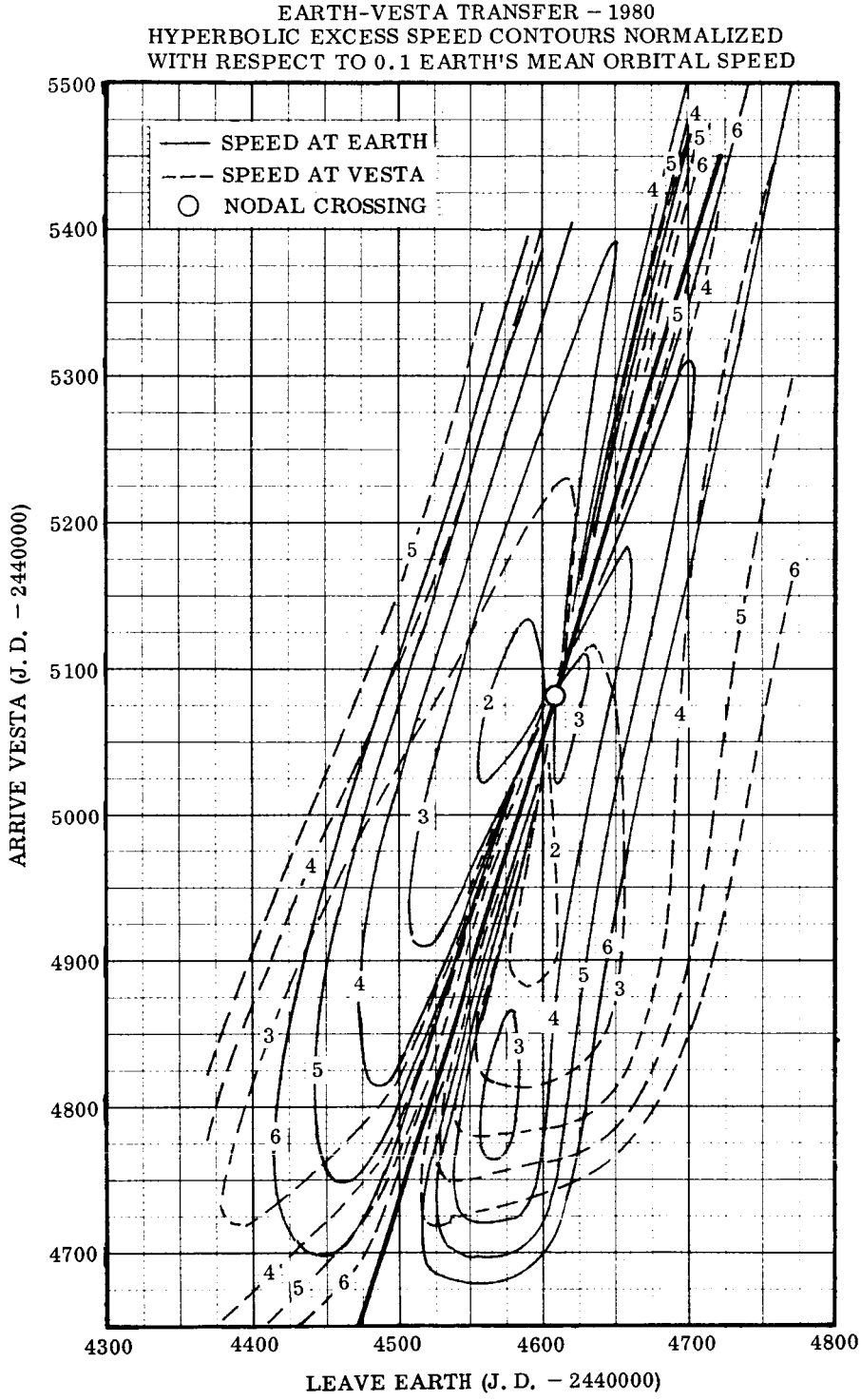

Fig. 2-29 Earth-Vesta Transfer (1980)

SECTION 3

TABULAR TRAJECTORY DATA

EARTH-JUPITER TRAJECTORY DATA

FOR THE YEARS 1970-1980

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 500	4- 940	0.862	183.3	-3.8	-1.66	1.411	128.1	0.99394	.634	283.5	501.0	0.617	---	2.14	0.600	160.0	72.3	3.6	0.615
4- 500	4- 960	0.834	183.0	-3.6	-1.57	1.394	127.2	0.96517	.783	284.0	503.1	0.628	---	2.07	0.561	158.5	72.4	3.7	0.577
4- 500	4- 980	0.810	182.8	-3.4	-1.48	1.380	126.4	0.93910	.495	284.5	505.2	0.637	---	2.00	0.525	156.9	72.4	3.7	0.541
4- 500	4-1000	0.788	182.5	-3.3	-1.40	1.368	125.6	0.917	7.764	285.0	507.2	0.645	---	1.94	0.492	155.2	72.4	3.7	0.509
4- 500	4-1020	0.769	182.3	-3.1	-1.32	1.357	124.9	0.897	6.342	285.4	509.1	0.653	---	1.89	0.462	153.5	72.2	3.7	0.479
4- 500	4-1040	0.753	182.2	-3.0	-1.25	1.348	124.3	0.880	5.475	285.8	511.1	0.659	---	1.84	0.435	151.6	72.0	3.8	0.452
4- 500	4-1060	0.738	182.0	-2.8	-1.18	1.340	123.8	0.864	4.895	286.1	512.9	0.665	---	1.79	0.410	149.6	71.7	3.8	0.428
4- 500	4-1080	0.726	181.9	-2.7	-1.12	1.333	123.4	0.851	4.483	286.3	514.7	0.670	---	1.75	0.387	147.6	71.3	3.8	0.405
4- 500	4-1100	0.715	181.8	-2.6	-1.06	1.327	123.0	0.839	4.177	286.5	516.5	0.674	---	1.70	0.365	145.4	70.8	3.8	0.384
4- 500	4-1120	0.706	181.8	-2.5	-1.00	1.322	122.7	0.828	3.942	286.7	518.2	0.677	---	1.67	0.346	143.1	70.2	3.8	0.365
4- 500	4-1140	0.698	181.8	-2.4	-0.94	1.317	122.4	0.819	3.758	286.8	519.9	0.680	---	1.63	0.328	140.7	69.5	3.8	0.347
4- 500	4-1160	0.691	181.8	-2.3	-0.89	1.313	122.2	0.811	3.611	286.8	521.5	0.682	---	1.60	0.312	138.2	68.8	3.9	0.331
4- 500	4-1180	0.686	181.8	-2.3	-0.83	1.309	122.0	0.804	3.492	286.8	523.0	0.683	---	1.57	0.297	135.5	67.9	3.9	0.317
4- 500	4-1200	0.682	181.9	-2.2	-0.78	1.306	121.9	0.799	3.394	286.7	524.5	0.684	---	1.54	0.283	132.8	66.9	3.9	0.304
4- 500	4-1220	0.679	182.0	-2.2	-0.73	1.303	121.8	0.794	3.313	286.6	526.0	0.684	---	1.52	0.271	129.9	65.8	3.9	0.292
4- 500	4-1240	0.677	182.1	-2.1	-0.69	1.301	121.8	0.789	3.245	286.4	527.4	0.683	---	1.49	0.260	126.9	64.7	3.9	0.281
4- 500	4-1260	0.675	182.3	-2.1	-0.64	1.299	121.8	0.786	3.189	286.2	528.7	0.682	---	1.47	0.250	123.9	63.4	3.9	0.272
4- 500	4-1280	0.675	182.5	-2.1	-0.59	1.297	121.8	0.783	3.141	285.9	530.0	0.681	---	1.45	0.241	120.7	62.1	3.9	0.263
4- 500	4-1300	0.675	182.7	-2.1	-0.55	1.295	121.9	0.781	3.101	285.5	531.3	0.679	---	1.43	0.234	117.5	60.8	3.8	0.256
4- 500	4-1320	0.676	182.9	-2.2	-0.51	1.294	122.0	0.780	3.067	285.1	532.5	0.676	---	1.41	0.227	114.2	59.4	3.8	0.250
4- 500	4-1340	0.678	183.2	-2.2	-0.46	1.293	122.2	0.778	3.039	284.7	533.6	0.673	---	1.40	0.221	110.9	58.0	3.8	0.245
4- 500	4-1360	0.680	183.5	-2.2	-0.42	1.292	122.3	0.778	3.016	284.2	534.8	0.670	---	1.38	0.217	107.5	56.6	3.7	0.240
4- 500	4-1380	0.684	183.8	-2.3	-0.38	1.291	122.5	0.778	2.996	283.7	535.8	0.666	---	1.37	0.213	104.1	55.1	3.7	0.237
4- 500	4-1400	0.687	184.1	-2.4	-0.34	1.290	122.8	0.778	2.980	283.1	536.9	0.662	---	1.36	0.209	100.8	53.8	3.7	0.234
4- 500	4-1420	0.691	184.5	-2.4	-0.30	1.290	123.1	0.779	2.966	282.5	537.9	0.657	---	1.35	0.207	97.5	52.4	3.6	0.232
4- 500	4-1440	0.696	184.8	-2.5	-0.26	1.289	123.4	0.780	2.956	281.8	538.8	0.651	---	1.34	0.205	94.2	51.1	3.6	0.231
4- 500	4-1460	0.702	185.2	-2.6	-0.22	1.289	123.7	0.781	2.947	281.1	539.7	0.646	---	1.33	0.204	91.0	49.9	3.5	0.231
4- 500	4-1480	0.708	185.7	-2.7	-0.18	1.289	124.0	0.783	2.941	280.3	540.6	0.640	5.243	1.32	0.204	87.8	48.8	3.5	0.231
4- 500	4-1500	0.714	186.1	-2.9	-0.15	1.288	124.4	0.784	2.937	279.5	541.4	0.633	5.241	1.32	0.204	84.8	47.8	3.4	0.232
4- 500	4-1520	0.721	186.5	-3.0	-0.11	1.288	124.8	0.787	2.934	278.7	542.2	0.626	5.242	1.31	0.204	81.8	46.9	3.4	0.234
4- 500	4-1540	0.728	187.0	-3.1	-0.07	1.288	125.2	0.789	2.933	277.8	543.0	0.619	5.247	1.31	0.205	79.0	46.1	3.3	0.236
4- 500	4-1560	0.736	187.5	-3.3	-0.03	1.288	125.7	0.792	2.933	276.9	543.7	0.611	5.255	1.31	0.207	76.2	45.4	3.3	0.238
4- 500	4-1580	0.744	188.0	-3.4	0.01	1.288	126.1	0.795	2.934	275.9	544.4	0.603	5.265	1.31	0.208	73.6	44.8	3.2	0.241
4- 500	4-1600	0.753	188.5	-3.6	0.04	1.288	126.6	0.798	2.936	274.9	545.1	0.594	5.279	1.30	0.210	71.0	44.4	3.2	0.244
4- 500	4-1620	0.762	189.0	-3.8	0.08	1.288	127.2	0.801	2.940	273.9	545.7	0.585	5.294	1.31	0.212	68.6	44.0	3.2	0.248
4- 500	4-1640	0.772	189.6	-4.0	0.12	1.289	127.7	0.804	2.944	272.8	546.3	0.576	5.312	1.31	0.215	66.3	43.8	3.1	0.252
4- 500	4-1660	0.782	190.1	-4.1	0.16	1.289	128.3	0.808	2.949	271.7	546.9	0.566	5.332	1.31	0.217	64.0	43.6	3.1	0.256
4- 500	4-1680	0.792	190.7	-4.3	0.20	1.289	128.9	0.812	2.955	270.5	547.4	0.556	5.354	1.31	0.220	61.9	43.6	3.1	0.260
4- 500	4-1700	0.803	191.3	-4.5	0.24	1.289	129.5	0.816	2.961	269.3	547.9	0.545	5.377	1.32	0.223	59.8	43.7	3.1	0.265
4- 500	4-1720	0.814	191.9	-4.7	0.27	1.290	130.1	0.820	2.968	268.1	548.3	0.535	5.402	1.33	0.226	57.8	43.9	3.1	0.270
4- 500	4-1740	0.826	192.5	-4.9	0.31	1.290	130.8	0.824	2.976	266.9	548.8	0.523	5.429	1.33	0.229	55.9	44.2	3.1	0.275
4- 500	4-1760	0.838	193.1	-5.2	0.36	1.290	131.4	0.829	2.984	265.6	549.2	0.512	5.457	1.34	0.232	54.1	44.6	3.1	0.280
4- 500	4-1780	0.850	193.7	-5.4	0.40	1.291	132.1	0.833	2.993	264.2	549.5	0.500	5.486	1.35	0.236	52.3	45.0	3.1	0.286
4- 500	4-1800	0.863	194.3	-5.6	0.44	1.291	132.9	0.838	3.002	262.8	549.9	0.487	5.517	1.36	0.239	50.6	45.6	3.1	0.291
4- 500	4-1820	0.877	195.0	-5.8	0.48	1.292	133.6	0.842	3.012	261.4	550.2	0.475	5.549	1.38	0.242	48.9	46.2	3.1	0.297
4- 500	4-1840	0.890	195.6	-6.1	0.53	1.292	134.4	0.847	3.022	260.0	550.5	0.462	5.582	1.39	0.246	47.3	46.9	3.1	0.303
4- 500	4-1860	0.904	196.3	-6.3	0.57	1.293	135.2	0.852	3.033	258.5	550.7	0.448	5.617	1.41	0.249	45.8	47.6	3.1	0.309
4- 500	4-1880	0.919	196.9	-6.6	0.62	1.293	136.0	0.857	3.043	257.0	550.9	0.435	5.652	1.43	0.252	44.3	48.5	3.1	0.315
4- 500	4-1900	0.933	197.6	-6.8	0.67	1.293	136.8	0.862	3.055	255.5	551.1	0.421	5.688	1.45	0.256	42.8	49.4	3.1	0.321
4- 500	4-1920	0.948	198.3	-7.1	0.71	1.294	137.7	0.867	3.066	253.9	551.3	0.407	5.725	1.47	0.259	41.4	50.4	3.1	0.328
4- 500	4-1940	0.964	199.0	-7.3	0.77	1.294	138.5	0.873	3.078	252.3	551.4	0.392	5.763	1.49	0.263	40.0	51.4	3.2	0.334
4- 500	4-1960	0.980	199.7	-7.6	0.82	1.295	139.4	0.878	3.090	250.6	551.5	0.378	5.802	1.52	0.266	38.6	52.5	3.2	0.341
4- 500	4-1980	0.996	200.4	-7.8	0.87	1.295	140.4	0.883	3.102	249.0	551.6	0.363	5.842	1.55	0.269	37.3	53.6	3.2	0.347
4- 500	4-2000	1.013	201.2	-8.1	0.93	1.296	141.3	0.888	3.115	247.3	551.6	0.348	5.882	1.58	0.273	36.0	54.8	3.2	0.354
4- 500	4-2020	1.029	201.9	-8.4	0.99	1.296	142.3	0.894	3.128	245.5	551.6	0.332	5.923	1.62	0.276	34.7	56.0	3.2	0.361
4- 500	4-2040	1.047	202.7	-8.6	1.05	1.297	143.2	0.899	3.141	243.7	551.6	0.317	5.965	1.65	0.279	33.4	57.3	3.3	0.368
4- 500	4-2060	1.064	203.4	-8.9	1.12	1.297	144.3	0.904	3.154	241.9	551.6	0.302	6.007	1.69	0.282	32.2	58.6	3.3	0.375
4- 500	4-2080	1.082	204.2	-9.2	1.19	1.298	145.3	0.910	3.168	240.1	551.5	0.286	6.050	1.74	0.286	30.9	60.0	3.3	0.382
4- 500	4-2100	1.101	204.9	-9.5	1.26	1.298	146.3	0.915	3.182	238.2	551.4	0.270	6.093	1.79	0.289	29.7	61.4	3.4	0.389
4- 510	4- 950	0.807	188.3	-6.9	-2.10	1.415	124.8	0.99882	.951	290.4	498.9	0.673	---	2.68	0.606	159.2	74.0	3.9	0.615
4- 510	4- 970	0.779	187.9	-6.6	-1.95	1.399	123.8	0.96620	.226	291.0	501.0	0.683	---	2.56	0.567	157.7	74.1	3.9	0.576
4- 510	4- 990	0.754	187.7	-6.4	-1.82	1.385	123.0	0.93911	.273	291.6	503.2	0.692	---	2.45	0.531	156.1	74.2	3.9	0.541
4- 510	4-1010	0.733	187.4	-6.1	-1.70	1.372	122.2	0.914	8.167	292.2	505.2	0.701	---	2.34	0.499	154.5	74.1	3.9	0.509
4- 510	4-1030	0.714	187.2	-5.9	-1.59	1.362	121.5	0.893	6.600	292.7	507.3	0.708	---	2.25	0.469	152.7	74.1	4.0	0.479
4- 510	4-1050	0.697	186.9	-5.7	-1.49	1.353	120.9	0.874	5.661	293.1	509.3	0.714	---	2.17	0.442	150.9	73.9	4.0	0.452
4- 510	4-1070	0.682	186.8	-5.5	-1.39	1.344	120.4	0.857	5.039	293.5	511.2	0.720	---	2.09	0.417	148.9	73.6	4.0	0.427
4- 510	4-1090	0.669	186.6	-5.3	-1.30	1.337	119.9	0.842	4.600	293.8	513.1	0.725	---	2.02	0.394	146.9	73.3	4.0	0.404
4- 510	4-1110	0.658	186.5	-5.1	-1.22	1.331	119.5	0.829	4.275	294.1	514.9	0.729	---	1.96	0.373	144.7	72.9	4.0	0.383
4- 510	4-1130	0.649	186.4	-5.0	-1.14	1.326	119.2	0.818	4.027	294.3	516.7	0.733	---	1.90	0.354	142.5	72.4	4.0	0.364
4- 510	4-1150	0.641	186.4	-4.8	-1.06	1.321	118.9	0.808	3.833	294.4	518.4	0.736	---	1.84	0.336	140.1	71.7	4.1	0.346
4- 510	4-1170	0.634	186.4	-4.7	-0.99	1.317	118.6	0.799	3.679	294.5	520.1	0.738	---	1.79	0.320	137.6	71.0	4.1	0.330
4- 510	4-1190	0.628	186.4	-4.6	-0.92	1.313	118.4	0.792	3.553	294.6	521.7	0.740	---	1.74	0.305	135.1	70.2	4.1	0.315
4- 510	4-1210	0.623	186.4	-4.5	-0.86	1.310	118.3	0.785	3.450	294.6	523.3	0.741	---	1.70	0.292	132.4	69.3	4.1	0.301
4- 510	4-1230	0.620	186.5	-4.4	-0.80	1.307	118.2	0.780	3.365	294.5	524.8	0.741	---	1.66	0.280	129.6	68.3	4.1	0.289
4- 510	4-1250	0.617	186.7	-4.4	-0.74	1.305	118.1	0.775	3.294	294.4	526.2	0.741	---	1.63	0.269	126.7	67.2	4.1	0.278
4- 510	4-1270	0.615	186.8	-4.3	-0.68	1.303	118.1	0.771	3.235	294.2	527.6	0.741	---	1.59	0.259	123.8	66.0	4.1	0.268
4- 510	4-1290	0.614	187.0	-4.3	-0.63	1.301	118.1	0.768	3.185	293.9	529.0	0.740	---	1.56	0.251	120.8	64.8	4.1	0.260
4- 510	4-1310	0.614	187.2	-4.3	-0.58	1.299	118.2	0.765	3.143	293.7	530.3	0.738	---	1.53	0.243	117.7	63.5	4.1	0.252
4- 510	4-1330	0.615	187.4	-4.3	-0.53	1.298	118.3	0.763	3.107	293.3	531.6	0.736	---	1.50	0.237	114.5	62.1	4.0	0.245
4- 510	4-1350	0.616	187.7	-4.3	-0.48	1.297	118.4	0.762	3.077	292.9	532.8	0.734	---	1.48	0.231	111.4	60.7	4.0	0.240

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 510	4-1370	0.618	188.0	-4.3	-0.43	1.296	118.6	0.760	3.052	292.5	534.0	0.731	---	1.46	0.226	108.2	59.3	4.0	0.235
4- 510	4-1390	0.620	188.3	-4.4	-0.39	1.295	118.7	0.760	3.031	292.0	535.1	0.728	---	1.43	0.222	105.0	57.9	3.9	0.231
4- 510	4-1410	0.623	188.7	-4.4	-0.34	1.294	118.9	0.760	3.014	291.5	536.2	0.724	---	1.41	0.219	101.8	56.5	3.9	0.228
4- 510	4-1430	0.627	189.0	-4.5	-0.30	1.293	119.2	0.760	3.000	290.9	537.2	0.720	---	1.40	0.217	98.7	55.1	3.8	0.226
4- 510	4-1450	0.631	189.4	-4.6	-0.26	1.293	119.4	0.760	2.988	290.3	538.2	0.716	---	1.38	0.215	95.6	53.8	3.8	0.224
4- 510	4-1470	0.636	189.8	-4.6	-0.21	1.292	119.7	0.761	2.979	289.6	539.2	0.711	---	1.36	0.214	92.6	52.6	3.7	0.223
4- 510	4-1490	0.641	190.3	-4.7	-0.17	1.292	120.0	0.763	2.972	288.9	540.1	0.706	5.238	1.35	0.213	89.6	51.4	3.7	0.223
4- 510	4-1510	0.647	190.7	-4.9	-0.13	1.292	120.4	0.764	2.967	288.2	541.0	0.700	5.234	1.34	0.213	86.7	50.3	3.6	0.223
4- 510	4-1530	0.653	191.2	-5.0	-0.09	1.292	120.7	0.766	2.963	287.4	541.9	0.694	5.233	1.33	0.213	83.9	49.3	3.6	0.224
4- 510	4-1550	0.659	191.7	-5.1	-0.05	1.292	121.1	0.768	2.961	286.6	542.7	0.687	5.235	1.32	0.214	81.2	48.4	3.5	0.226
4- 510	4-1570	0.666	192.2	-5.2	-0.01	1.292	121.5	0.770	2.961	285.7	543.5	0.680	5.241	1.31	0.215	78.6	47.6	3.5	0.228
4- 510	4-1590	0.674	192.7	-5.4	0.02	1.292	122.0	0.773	2.961	284.8	544.2	0.673	5.250	1.30	0.216	76.1	47.0	3.4	0.230
4- 510	4-1610	0.682	193.2	-5.5	0.06	1.292	122.4	0.775	2.963	283.8	544.9	0.666	5.261	1.29	0.218	73.7	46.4	3.4	0.233
4- 510	4-1630	0.690	193.8	-5.7	0.10	1.292	122.9	0.778	2.966	282.8	545.6	0.658	5.274	1.29	0.220	71.4	46.0	3.3	0.236
4- 510	4-1650	0.699	194.3	-5.9	0.14	1.292	123.4	0.781	2.970	281.8	546.3	0.649	5.290	1.28	0.222	69.1	45.6	3.3	0.239
4- 510	4-1670	0.708	194.9	-6.1	0.18	1.292	123.9	0.785	2.974	280.7	546.9	0.640	5.308	1.28	0.225	67.0	45.4	3.3	0.243
4- 510	4-1690	0.718	195.5	-6.3	0.21	1.292	124.5	0.788	2.979	279.7	547.5	0.631	5.328	1.28	0.227	64.9	45.3	3.2	0.247
4- 510	4-1710	0.728	196.1	-6.5	0.25	1.293	125.0	0.792	2.985	278.5	548.0	0.622	5.349	1.28	0.230	62.9	45.3	3.2	0.251
4- 510	4-1730	0.738	196.7	-6.7	0.29	1.293	125.6	0.796	2.992	277.4	548.5	0.612	5.373	1.28	0.233	61.0	45.4	3.2	0.256
4- 510	4-1750	0.749	197.3	-6.9	0.33	1.293	126.2	0.799	2.999	276.1	549.0	0.601	5.397	1.28	0.235	59.2	45.6	3.2	0.261
4- 510	4-1770	0.760	197.9	-7.1	0.37	1.294	126.8	0.804	3.007	274.9	549.5	0.591	5.424	1.28	0.238	57.5	45.9	3.2	0.265
4- 510	4-1790	0.771	198.6	-7.3	0.40	1.294	127.5	0.808	3.016	273.6	549.9	0.580	5.451	1.29	0.241	55.8	46.3	3.2	0.270
4- 510	4-1810	0.783	199.2	-7.5	0.44	1.294	128.1	0.812	3.024	272.3	550.3	0.568	5.480	1.29	0.245	54.1	46.7	3.2	0.276
4- 510	4-1830	0.796	199.9	-7.7	0.48	1.295	128.8	0.817	3.034	271.0	550.7	0.557	5.511	1.30	0.248	52.5	47.3	3.2	0.281
4- 510	4-1850	0.808	200.6	-8.0	0.52	1.295	129.5	0.821	3.043	269.6	551.0	0.544	5.542	1.30	0.251	51.0	47.9	3.2	0.286
4- 510	4-1870	0.821	201.2	-8.2	0.56	1.296	130.3	0.826	3.053	268.2	551.4	0.532	5.575	1.31	0.254	49.5	48.6	3.2	0.292
4- 510	4-1890	0.835	201.9	-8.4	0.60	1.296	131.0	0.831	3.064	266.8	551.6	0.519	5.608	1.32	0.257	48.1	49.3	3.2	0.298
4- 510	4-1910	0.848	202.6	-8.7	0.64	1.296	131.8	0.835	3.074	265.3	551.9	0.506	5.643	1.33	0.260	46.7	50.2	3.2	0.304
4- 510	4-1930	0.863	203.3	-8.9	0.69	1.297	132.6	0.840	3.086	263.8	552.1	0.492	5.679	1.35	0.264	45.3	51.0	3.2	0.310
4- 510	4-1950	0.877	204.0	-9.2	0.73	1.297	133.4	0.845	3.097	262.2	552.3	0.479	5.715	1.36	0.267	43.9	52.0	3.2	0.316
4- 510	4-1970	0.892	204.8	-9.4	0.78	1.298	134.2	0.851	3.109	260.7	552.5	0.464	5.753	1.38	0.270	42.6	53.0	3.2	0.322
4- 510	4-1990	0.907	205.5	-9.7	0.82	1.298	135.1	0.856	3.121	259.1	552.6	0.450	5.791	1.40	0.273	41.4	54.1	3.3	0.328
4- 510	4-2010	0.923	206.2	-9.9	0.87	1.299	136.0	0.861	3.133	257.4	552.8	0.435	5.830	1.41	0.276	40.1	55.2	3.3	0.334
4- 510	4-2030	0.939	207.0	-10.2	0.92	1.299	136.9	0.866	3.145	255.8	552.9	0.420	5.870	1.44	0.279	38.9	56.4	3.3	0.341
4- 510	4-2050	0.955	207.7	-10.5	0.97	1.300	137.8	0.872	3.158	254.1	552.9	0.405	5.911	1.46	0.283	37.7	57.6	3.3	0.347
4- 510	4-2070	0.972	208.5	-10.7	1.02	1.300	138.7	0.877	3.171	252.3	552.9	0.390	5.952	1.49	0.286	36.5	58.8	3.3	0.354
4- 510	4-2090	0.989	209.3	-11.0	1.07	1.301	139.7	0.883	3.184	250.5	552.9	0.374	5.994	1.51	0.289	35.3	60.1	3.4	0.361
4- 510	4-2110	1.006	210.0	-11.3	1.13	1.301	140.7	0.888	3.197	248.7	552.9	0.358	6.037	1.55	0.292	34.1	61.5	3.4	0.367
4- 520	4- 960	0.751	192.5	-10.6	-2.99	1.419	121.2	1.00145	979	297.6	496.9	0.727	---	3.68	0.610	158.5	75.5	4.3	0.614
4- 520	4- 980	0.723	192.2	-10.2	-2.71	1.403	120.3	0.96722	499	298.3	499.1	0.737	---	3.42	0.571	157.0	75.7	4.3	0.575
4- 520	4-1000	0.699	191.9	-9.7	-2.47	1.389	119.4	0.93711	935	299.0	501.3	0.746	---	3.19	0.536	155.4	75.8	4.3	0.540
4- 520	4-1020	0.677	191.6	-9.4	-2.26	1.376	118.7	0.911	8.504	299.6	503.5	0.754	---	3.00	0.504	153.7	75.8	4.3	0.507
4- 520	4-1040	0.658	191.3	-9.0	-2.07	1.366	118.0	0.888	6.815	300.1	505.6	0.761	---	2.82	0.474	152.0	75.8	4.3	0.478
4- 520	4-1060	0.641	191.1	-8.7	-1.90	1.356	117.4	0.868	5.815	300.6	507.6	0.768	---	2.67	0.447	150.1	75.6	4.3	0.451
4- 520	4-1080	0.626	190.9	-8.3	-1.75	1.348	116.8	0.850	5.159	301.1	509.6	0.773	---	2.54	0.423	148.2	75.4	4.3	0.426
4- 520	4-1100	0.613	190.7	-8.0	-1.61	1.341	116.4	0.834	4.698	301.5	511.6	0.778	---	2.42	0.400	146.2	75.1	4.3	0.403
4- 520	4-1120	0.602	190.6	-7.8	-1.49	1.335	116.0	0.821	4.358	301.8	513.5	0.782	---	2.31	0.379	144.0	74.8	4.3	0.381
4- 520	4-1140	0.592	190.5	-7.5	-1.37	1.330	115.6	0.808	4.100	302.1	515.3	0.786	---	2.21	0.360	141.8	74.3	4.3	0.362
4- 520	4-1160	0.584	190.4	-7.3	-1.27	1.325	115.3	0.798	3.898	302.3	517.1	0.789	---	2.13	0.343	139.5	73.7	4.3	0.344
4- 520	4-1180	0.576	190.4	-7.1	-1.17	1.321	115.1	0.788	3.737	302.4	518.8	0.791	---	2.05	0.327	137.1	73.1	4.3	0.328
4- 520	4-1200	0.571	190.4	-6.9	-1.08	1.317	114.9	0.780	3.607	302.5	520.5	0.793	---	1.97	0.312	134.5	72.3	4.3	0.313
4- 520	4-1220	0.566	190.4	-6.8	-0.99	1.314	114.7	0.773	3.500	302.6	522.1	0.794	---	1.91	0.299	131.9	71.5	4.3	0.299
4- 520	4-1240	0.562	190.5	-6.6	-0.91	1.311	114.6	0.767	3.411	302.6	523.7	0.795	---	1.85	0.287	129.2	70.5	4.3	0.287
4- 520	4-1260	0.559	190.6	-6.5	-0.84	1.308	114.5	0.762	3.338	302.5	525.2	0.795	---	1.79	0.277	126.4	69.5	4.3	0.276
4- 520	4-1280	0.557	190.8	-6.4	-0.76	1.306	114.5	0.757	3.276	302.4	526.7	0.795	---	1.74	0.267	123.6	68.4	4.3	0.265
4- 520	4-1300	0.555	191.0	-6.3	-0.70	1.304	114.5	0.754	3.224	302.2	528.1	0.794	---	1.69	0.259	120.7	67.2	4.3	0.256
4- 520	4-1320	0.555	191.2	-6.3	-0.63	1.303	114.5	0.751	3.180	301.9	529.4	0.793	---	1.65	0.251	117.7	65.9	4.3	0.248
4- 520	4-1340	0.555	191.4	-6.2	-0.57	1.301	114.6	0.748	3.143	301.6	530.8	0.792	---	1.61	0.245	114.7	64.6	4.3	0.241
4- 520	4-1360	0.556	191.7	-6.2	-0.51	1.300	114.7	0.746	3.112	301.3	532.0	0.790	---	1.57	0.239	111.7	63.2	4.2	0.235
4- 520	4-1380	0.557	192.0	-6.2	-0.46	1.299	114.8	0.745	3.086	300.9	533.2	0.788	---	1.53	0.234	108.6	61.8	4.2	0.230
4- 520	4-1400	0.559	192.3	-6.2	-0.40	1.298	115.0	0.744	3.064	300.5	534.4	0.785	---	1.50	0.231	105.6	60.4	4.1	0.226
4- 520	4-1420	0.562	192.7	-6.3	-0.35	1.297	115.1	0.743	3.046	300.0	535.5	0.782	---	1.47	0.227	102.6	59.0	4.1	0.222
4- 520	4-1440	0.565	193.1	-6.3	-0.30	1.297	115.4	0.743	3.031	299.5	536.6	0.779	---	1.44	0.225	99.6	57.6	4.0	0.220
4- 520	4-1460	0.568	193.5	-6.4	-0.26	1.296	115.6	0.743	3.018	298.9	537.7	0.775	---	1.42	0.223	96.6	56.3	4.0	0.218
4- 520	4-1480	0.572	194.0	-6.4	-0.21	1.296	115.9	0.744	3.008	298.3	538.7	0.771	---	1.40	0.222	93.8	55.0	3.9	0.216
4- 520	4-1500	0.577	194.4	-6.5	-0.16	1.296	116.1	0.745	3.001	297.6	539.7	0.766	---	1.37	0.221	91.0	53.8	3.9	0.216
4- 520	4-1520	0.582	194.9	-6.6	-0.12	1.295	116.4	0.746	2.995	296.9	540.6	0.762	5.228	1.35	0.221	88.2	52.6	3.8	0.216
4- 520	4-1540	0.587	195.4	-6.7	-0.08	1.295	116.8	0.747	2.991	296.1	541.5	0.756	5.225	1.34	0.221	85.6	51.6	3.8	0.216
4- 520	4-1560	0.593	195.9	-6.9	-0.04	1.295	117.1	0.749	2.988	295.4	542.4	0.751	5.226	1.32	0.221	83.0	50.6	3.7	0.217
4- 520	4-1580	0.600	196.4	-7.0	0.01	1.295	117.5	0.751	2.987	294.5	543.2	0.745	5.230	1.30	0.222	80.5	49.8	3.6	0.219
4- 520	4-1600	0.606	197.0	-7.1	0.05	1.295	117.9	0.753	2.988	293.7	544.0	0.739	5.237	1.29	0.224	78.1	49.0	3.6	0.221
4- 520	4-1620	0.614	197.6	-7.3	0.09	1.295	118.3	0.755	2.989	292.8	544.8	0.732	5.246	1.28	0.225	75.8	48.4	3.5	0.223
4- 520	4-1640	0.621	198.1	-7.4	0.12	1.295	118.8	0.758	2.991	291.8	545.5	0.725	5.258	1.27	0.227	73.6	47.9	3.5	0.226
4- 520	4-1660	0.629	198.7	-7.6	0.16	1.295	119.2	0.760	2.995	290.8	546.2	0.718	5.272	1.25	0.229	71.5	47.5	3.5	0.229
4- 520	4-1680	0.637	199.4	-7.8	0.20	1.295	119.7	0.763	2.999	289.8	546.8	0.710	5.288	1.25	0.231	69.4	47.2	3.4	0.232
4- 520	4-1700	0.646	200.0	-8.0	0.24	1.296	120.2	0.766	3.004	288.8	547.5	0.702	5.306	1.24	0.234	67.5	47.0	3.4	0.236
4- 520	4-1720	0.655	200.6	-8.2	0.27	1.296	120.7	0.770	3.009	287.7	548.1	0.693	5.325	1.23	0.236	65.6	46.9	3.3	0.240
4- 520	4-1740	0.665	201.3	-8.4	0.31	1.296	121.3	0.773	3.016	286.6	548.7	0.684	5.347	1.23	0.239	63.7	46.9	3.3	0.244
4- 520	4-1760	0.675	201.9	-8.6	0.35	1.296	121.8	0.777	3.022	285.4	549.2	0.675	5.370	1.22	0.241	62.0	47.0	3.3	0.248
4- 520	4-1780	0.685	202.6	-8.8	0.38	1.297	122.4	0.780	3.030	284.2	549.7	0.666	5.394	1.22	0.244	60.3	47.2	3.3	0.253

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 540	4-1080	0.538	194.5	-20.8	-5.63	1.362	110.0	0.856	5.987	316.5	505.1	0.864	---	6.57	0.453	148.7	78.4	6.5	0.446
4- 540	4-1100	0.520	194.7	-18.6	-4.62	1.354	109.4	0.836	5.298	317.1	507.2	0.869	---	5.57	0.429	146.7	78.3	6.1	0.421
4- 540	4-1120	0.506	194.8	-16.9	-3.87	1.347	109.0	0.819	4.816	317.6	509.3	0.873	---	4.83	0.407	144.7	78.1	5.9	0.398
4- 540	4-1140	0.494	194.9	-15.6	-3.29	1.341	108.6	0.804	4.463	318.1	511.3	0.876	---	4.27	0.387	142.6	77.8	5.7	0.377
4- 540	4-1160	0.483	195.0	-14.5	-2.83	1.335	108.2	0.790	4.194	318.4	513.2	0.879	---	3.83	0.368	140.4	77.4	5.5	0.357
4- 540	4-1180	0.474	195.0	-13.5	-2.46	1.331	107.9	0.779	3.984	318.8	515.1	0.882	---	3.47	0.351	138.1	76.9	5.4	0.339
4- 540	4-1200	0.467	195.1	-12.7	-2.15	1.327	107.7	0.768	3.817	319.0	516.9	0.884	---	3.17	0.336	135.8	76.4	5.3	0.323
4- 540	4-1220	0.461	195.1	-12.1	-1.89	1.323	107.5	0.759	3.681	319.2	518.7	0.886	---	2.92	0.322	133.3	75.7	5.2	0.308
4- 540	4-1240	0.456	195.3	-11.5	-1.66	1.320	107.3	0.752	3.570	319.3	520.4	0.887	---	2.71	0.309	130.8	74.9	5.1	0.294
4- 540	4-1260	0.451	195.4	-11.0	-1.47	1.317	107.2	0.745	3.479	319.4	522.1	0.888	---	2.53	0.298	128.2	74.0	5.1	0.281
4- 540	4-1280	0.448	195.6	-10.6	-1.30	1.315	107.1	0.739	3.402	319.4	523.7	0.888	---	2.38	0.288	125.5	73.1	5.0	0.270
4- 540	4-1300	0.446	195.8	-10.2	-1.15	1.312	107.1	0.734	3.338	319.4	525.2	0.888	---	2.24	0.278	122.8	72.0	4.9	0.259
4- 540	4-1320	0.444	196.0	-9.9	-1.01	1.310	107.1	0.730	3.284	319.2	526.7	0.888	---	2.12	0.270	120.1	70.9	4.9	0.250
4- 540	4-1340	0.443	196.3	-9.7	-0.89	1.309	107.1	0.726	3.239	319.1	528.1	0.888	---	2.01	0.263	117.3	69.7	4.8	0.242
4- 540	4-1360	0.442	196.7	-9.5	-0.78	1.307	107.1	0.723	3.200	318.9	529.5	0.887	---	1.91	0.257	114.5	68.4	4.8	0.234
4- 540	4-1380	0.442	197.0	-9.3	-0.68	1.306	107.2	0.720	3.168	318.6	530.9	0.886	---	1.83	0.252	111.6	67.1	4.7	0.228
4- 540	4-1400	0.443	197.4	-9.2	-0.59	1.305	107.3	0.718	3.140	318.3	532.1	0.884	---	1.75	0.247	108.8	65.8	4.6	0.222
4- 540	4-1420	0.444	197.9	-9.1	-0.50	1.304	107.4	0.717	3.117	317.9	533.4	0.883	---	1.68	0.243	106.0	64.4	4.6	0.218
4- 540	4-1440	0.446	198.3	-9.0	-0.42	1.303	107.6	0.716	3.098	317.5	534.6	0.881	---	1.62	0.240	103.2	63.0	4.5	0.214
4- 540	4-1460	0.448	198.8	-9.0	-0.35	1.303	107.8	0.715	3.082	317.0	535.7	0.878	---	1.56	0.238	100.5	61.6	4.4	0.210
4- 540	4-1480	0.451	199.4	-9.0	-0.28	1.302	108.0	0.715	3.069	316.5	536.9	0.876	---	1.51	0.236	97.8	60.3	4.4	0.208
4- 540	4-1500	0.454	199.9	-9.0	-0.22	1.302	108.2	0.715	3.058	315.9	537.9	0.873	---	1.46	0.235	95.1	59.0	4.3	0.206
4- 540	4-1520	0.457	200.5	-9.1	-0.16	1.302	108.4	0.715	3.050	315.3	539.0	0.870	---	1.41	0.234	92.6	57.7	4.2	0.205
4- 540	4-1540	0.461	201.1	-9.2	-0.10	1.301	108.7	0.715	3.043	314.6	540.0	0.867	---	1.37	0.234	90.1	56.5	4.1	0.204
4- 540	4-1560	0.466	201.7	-9.3	-0.04	1.301	109.0	0.716	3.039	314.0	540.9	0.863	5.215	1.34	0.234	87.6	55.4	4.1	0.204
4- 540	4-1580	0.470	202.4	-9.4	0.01	1.301	109.3	0.717	3.036	313.2	541.9	0.859	5.213	1.30	0.234	85.3	54.4	4.0	0.204
4- 540	4-1600	0.475	203.1	-9.5	0.06	1.301	109.6	0.718	3.034	312.5	542.8	0.855	5.214	1.27	0.235	83.0	53.4	3.9	0.205
4- 540	4-1620	0.481	203.9	-9.6	0.10	1.301	110.0	0.720	3.034	311.7	543.6	0.850	5.217	1.24	0.236	80.8	52.6	3.8	0.207
4- 540	4-1640	0.487	204.5	-9.8	0.15	1.301	110.4	0.721	3.035	310.8	544.4	0.846	5.224	1.21	0.237	78.7	51.9	3.8	0.208
4- 540	4-1660	0.493	205.2	-10.0	0.19	1.301	110.7	0.723	3.037	309.9	545.2	0.841	5.233	1.19	0.239	76.7	51.3	3.7	0.210
4- 540	4-1680	0.499	205.9	-10.1	0.23	1.301	111.1	0.725	3.040	309.0	546.0	0.835	5.244	1.16	0.241	74.8	50.8	3.6	0.213
4- 540	4-1700	0.506	206.7	-10.3	0.27	1.301	111.6	0.727	3.043	308.1	546.8	0.830	5.257	1.14	0.243	72.9	50.3	3.6	0.216
4- 540	4-1720	0.514	207.4	-10.5	0.31	1.301	112.0	0.730	3.048	307.1	547.5	0.824	5.272	1.12	0.245	71.1	50.0	3.5	0.218
4- 540	4-1740	0.521	208.2	-10.7	0.35	1.302	112.5	0.732	3.053	306.1	548.1	0.817	5.289	1.11	0.247	69.4	49.9	3.5	0.222
4- 540	4-1760	0.529	209.0	-10.9	0.39	1.302	112.9	0.735	3.059	305.1	548.8	0.811	5.307	1.09	0.249	67.7	49.8	3.5	0.225
4- 540	4-1780	0.537	209.8	-11.2	0.42	1.302	113.4	0.738	3.066	304.0	549.4	0.804	5.327	1.07	0.252	66.1	49.8	3.4	0.229
4- 540	4-1800	0.546	210.6	-11.4	0.46	1.302	113.9	0.741	3.073	302.9	550.0	0.797	5.349	1.06	0.254	64.5	49.9	3.4	0.232
4- 540	4-1820	0.555	211.4	-11.6	0.49	1.303	114.5	0.744	3.080	301.7	550.6	0.789	5.372	1.05	0.257	63.1	50.1	3.4	0.236
4- 540	4-1840	0.564	212.2	-11.9	0.52	1.303	115.0	0.747	3.089	300.6	551.1	0.781	5.396	1.03	0.260	61.6	50.3	3.3	0.241
4- 540	4-1860	0.574	213.0	-12.1	0.56	1.303	115.6	0.750	3.097	299.4	551.7	0.773	5.421	1.02	0.262	60.2	50.7	3.3	0.245
4- 540	4-1880	0.584	213.9	-12.3	0.59	1.304	116.1	0.754	3.106	298.1	552.1	0.764	5.448	1.02	0.265	58.9	51.1	3.3	0.249
4- 540	4-1900	0.594	214.7	-12.6	0.62	1.304	116.7	0.757	3.115	296.9	552.6	0.756	5.475	1.01	0.268	57.6	51.7	3.3	0.254
4- 540	4-1920	0.605	215.5	-12.8	0.65	1.305	117.3	0.761	3.125	295.6	553.1	0.746	5.504	1.00	0.271	56.4	52.2	3.3	0.258
4- 540	4-1940	0.616	216.4	-13.1	0.68	1.305	118.0	0.765	3.135	294.3	553.5	0.737	5.534	0.99	0.274	55.1	52.9	3.3	0.263
4- 540	4-1960	0.627	217.2	-13.3	0.71	1.305	118.6	0.769	3.146	292.9	553.9	0.727	5.565	0.99	0.276	53.9	53.6	3.3	0.268
4- 540	4-1980	0.639	218.1	-13.6	0.74	1.306	119.3	0.773	3.156	291.5	554.3	0.716	5.596	0.98	0.279	52.8	54.4	3.3	0.273
4- 540	4-2000	0.650	218.9	-13.8	0.77	1.306	119.9	0.777	3.167	290.1	554.6	0.705	5.629	0.98	0.282	51.7	55.3	3.3	0.278
4- 540	4-2020	0.663	219.8	-14.1	0.80	1.307	120.6	0.782	3.178	288.7	554.9	0.694	5.662	0.98	0.285	50.6	56.2	3.3	0.283
4- 540	4-2040	0.675	220.7	-14.3	0.83	1.307	121.3	0.786	3.190	287.2	555.2	0.683	5.697	0.98	0.288	49.5	57.1	3.3	0.288
4- 540	4-2060	0.688	221.5	-14.6	0.86	1.307	122.1	0.790	3.202	285.7	555.5	0.671	5.732	0.98	0.290	48.5	58.1	3.3	0.293
4- 540	4-2080	0.702	222.4	-14.8	0.89	1.308	122.8	0.795	3.213	284.2	555.7	0.659	5.768	0.98	0.293	47.4	59.2	3.3	0.298
4- 540	4-2100	0.715	223.3	-15.1	0.92	1.308	123.6	0.800	3.226	282.7	556.0	0.646	5.805	0.98	0.296	46.4	60.3	3.4	0.304
4- 540	4-2120	0.729	224.1	-15.3	0.95	1.309	124.4	0.804	3.238	281.1	556.2	0.633	5.843	0.98	0.299	45.4	61.4	3.4	0.309
4- 540	4-2140	0.744	225.0	-15.6	0.98	1.309	125.2	0.809	3.250	279.5	556.4	0.620	5.881	0.98	0.301	44.4	62.6	3.4	0.315
4- 550	4- 950	0.641	210.4	-1.1	4.94	1.464	111.6	1.101	-8.521	318.9	487.2	0.860	---	-4.00	0.698	159.1	79.1	1.6	0.688
4- 550	4- 970	0.610	210.3	0.8	5.55	1.443	110.5	1.048	18.131	319.9	489.8	0.869	---	-4.60	0.653	157.7	79.3	1.2	0.642
4- 550	4- 990	0.585	210.5	3.3	6.38	1.424	109.6	1.002	03.175	320.9	492.3	0.877	---	-5.41	0.611	156.3	79.5	0.8	0.600
4- 550	4-1010	0.566	211.2	6.6	7.56	1.408	108.7	0.963	23.598	321.9	494.8	0.884	---	-6.59	0.573	154.8	79.7	0.2	0.563
4- 550	4-1030	0.556	212.8	11.2	9.40	1.395	107.9	0.928	12.373	322.8	497.2	0.890	---	-8.42	0.539	153.2	79.7	-0.8	0.529
4- 550	4-1050	0.564	216.3	18.4	12.66	1.383	107.2	0.898	8.782	323.6	499.6	0.896	---	-11.66	0.508	151.5	79.5	-2.6	0.500
4- 550	4-1070	0.628	225.7	30.6	19.87	1.372	106.5	0.872	7.023	324.4	501.9	0.901	---	-18.86	0.479	149.7	78.6	-6.4	0.478
4- 550	4-1090	1.015	263.4	45.1	45.97	1.363	105.9	0.849	5.985	325.3	504.1	0.907	---	-44.95	0.453	147.9	72.4	-16.9	0.503
4- 550	4-1110	1.011	151.3	-85.3	-46.11	1.356	105.7	0.829	5.305	325.3	506.4	0.908	---	47.14	0.430	146.0	70.6	24.1	0.488
4- 550	4-1130	0.577	182.7	-51.5	-18.23	1.349	105.1	0.811	4.828	326.1	508.5	0.912	---	19.27	0.408	144.0	77.6	14.2	0.407
4- 550	4-1150	0.487	188.4	-36.3	-10.73	1.343	104.7	0.796	4.476	326.6	510.6	0.915	---	11.78	0.388	141.9	78.4	10.4	0.378
4- 550	4-1170	0.453	191.0	-28.3	-7.39	1.337	104.4	0.782	4.209	327.1	512.6	0.918	---	8.45	0.370	139.7	78.3	8.7	0.356
4- 550	4-1190	0.435	192.4	-23.4	-5.51	1.333	104.1	0.770	4.000	327.4	514.5	0.920	---	6.58	0.353	137.4	78.0	7.7	0.337
4- 550	4-1210	0.423	193.3	-20.1	-4.31	1.329	103.9	0.760	3.834	327.7	516.4	0.921	---	5.39	0.338	135.0	77.5	7.0	0.320
4- 550	4-1230	0.414	194.0	-17.7	-3.47	1.325	103.7	0.751	3.699	328.0	518.2	0.923	---	4.56	0.324	132.6	76.9	6.6	0.305
4- 550	4-1250	0.408	194.5	-16.0	-2.85	1.322	103.5	0.743	3.588	328.1	519.9	0.924	---	3.96	0.312	130.1	76.1	6.2	0.291
4- 550	4-1270	0.403	194.9	-14.6	-2.38	1.319	103.4	0.736	3.497	328.2	521.6	0.924	---	3.50	0.301	127.6	75.3	6.0	0.278
4- 550	4-1290	0.399	195.3	-13.5	-2.00	1.317	103.3	0.730	3.421	328.3	523.2	0.925	---	3.13	0.291	124.9	74.4	5.8	0.267
4- 550	4-1310	0.396	195.7	-12.6	-1.70	1.315	103.3	0.724	3.357	328.2	524.8	0.925	---	2.84	0.282	122.3	73.3	5.6	0.256
4- 550	4-1330	0.394	196.1	-11.9	-1.44	1.313	103.3	0.720	3.303	328.1	526.3	0.925	---	2.59	0.274	119.6	72.2	5.4	0.247
4- 550	4-1350	0.393	196.6	-11.4	-1.23	1.311	103.3	0.716	3.257	328.0	527.8	0.925	---	2.39	0.267	116.8	71.1	5.3	0.239
4- 550	4-1370	0.392	197.0	-10.9	-1.04	1.310	103.3	0.713	3.219	327.8	529.2	0.924	---	2.22	0.261	114.1	69.8	5.2	0.231
4- 550	4-1390	0.392	197.5	-10.5	-0.88	1.309	103.4	0.710	3.186	327.5	530.5	0.923	---	2.07	0.256	111.3	68.5	5.1	0.225
4- 550	4-1410	0.392	198.0	-10.2	-0.74	1.307	103.5	0.708	3.159	327.2	531.8	0.922	---	1.94	0.251	108.6	67.2	4.9	0.219
4- 550	4-1430	0.393	198.6	-10.0	-0.62	1.307	103.6	0.706	3.136	326.9	533.1	0.921	---	1.83	0.248	105.9	65.8	4.8	0.214
4- 550	4-1450	0.394	199.1	-9.9	-0.51	1.306	103.8	0.705	3.117	326.5	534.3	0.919	---	1.73	0.245	103.2	64.5	4.7	0.210

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 550	4-1470	0.396	199.8	-9.7	-0.41	1.305	104.0	0.704	3.101	326.0	535.5	0.917	---	1.64	0.242	100.5	63.1	4.6	0.207
4- 550	4-1490	0.398	200.4	-9.7	-0.32	1.305	104.2	0.703	3.088	325.5	536.6	0.916	---	1.57	0.241	97.9	61.8	4.5	0.204
4- 550	4-1510	0.401	201.1	-9.6	-0.23	1.304	104.4	0.703	3.077	325.0	537.7	0.913	---	1.50	0.239	95.4	60.4	4.4	0.202
4- 550	4-1530	0.404	201.8	-9.7	-0.16	1.304	104.6	0.703	3.069	324.4	538.8	0.911	---	1.43	0.239	92.9	59.2	4.3	0.201
4- 550	4-1550	0.407	202.5	-9.7	-0.09	1.304	104.9	0.703	3.062	323.7	539.8	0.908	---	1.37	0.238	90.5	58.0	4.2	0.200
4- 550	4-1570	0.411	203.2	-9.8	-0.02	1.303	105.1	0.704	3.058	323.1	540.8	0.905	5.210	1.32	0.239	88.2	56.9	4.2	0.200
4- 550	4-1590	0.415	204.0	-9.9	0.04	1.303	105.4	0.705	3.055	322.4	541.7	0.902	5.208	1.28	0.239	85.9	55.8	4.1	0.200
4- 550	4-1610	0.420	204.8	-10.0	0.09	1.303	105.8	0.706	3.053	321.6	542.6	0.899	5.208	1.23	0.240	83.7	54.9	4.0	0.200
4- 550	4-1630	0.424	205.6	-10.1	0.15	1.303	106.1	0.707	3.053	320.8	543.5	0.895	5.211	1.19	0.241	81.6	54.0	3.9	0.201
4- 550	4-1650	0.429	206.4	-10.3	0.20	1.303	106.4	0.708	3.054	320.0	544.4	0.891	5.216	1.16	0.242	79.6	53.3	3.8	0.203
4- 550	4-1670	0.435	207.3	-10.5	0.24	1.303	106.8	0.710	3.056	319.1	545.2	0.887	5.224	1.12	0.244	77.7	52.6	3.7	0.205
4- 550	4-1690	0.441	208.1	-10.7	0.29	1.304	107.2	0.711	3.059	318.3	546.0	0.883	5.235	1.09	0.245	75.8	52.1	3.7	0.207
4- 550	4-1710	0.447	209.0	-10.9	0.33	1.304	107.6	0.713	3.063	317.3	546.7	0.878	5.247	1.07	0.247	74.0	51.7	3.6	0.209
4- 550	4-1730	0.453	209.9	-11.1	0.37	1.304	108.0	0.715	3.067	316.4	547.5	0.874	5.261	1.04	0.249	72.3	51.3	3.6	0.212
4- 550	4-1750	0.460	210.8	-11.3	0.41	1.304	108.4	0.717	3.072	315.4	548.2	0.868	5.276	1.02	0.252	70.6	51.1	3.5	0.215
4- 550	4-1770	0.467	211.7	-11.6	0.45	1.304	108.9	0.720	3.078	314.4	548.9	0.863	5.294	0.99	0.254	69.0	51.0	3.5	0.218
4- 550	4-1790	0.475	212.6	-11.8	0.48	1.305	109.4	0.722	3.085	313.3	549.5	0.857	5.313	0.97	0.256	67.5	51.0	3.4	0.221
4- 550	4-1810	0.483	213.5	-12.1	0.52	1.305	109.8	0.725	3.092	312.2	550.1	0.851	5.333	0.95	0.259	66.0	51.0	3.4	0.225
4- 550	4-1830	0.491	214.4	-12.3	0.55	1.305	110.3	0.727	3.100	311.1	550.7	0.845	5.354	0.94	0.261	64.6	51.2	3.4	0.229
4- 550	4-1850	0.499	215.4	-12.6	0.58	1.305	110.9	0.730	3.108	310.0	551.3	0.838	5.377	0.92	0.264	63.2	51.4	3.3	0.232
4- 550	4-1870	0.508	216.3	-12.8	0.61	1.306	111.4	0.733	3.116	308.8	551.9	0.831	5.401	0.91	0.267	61.9	51.8	3.3	0.236
4- 550	4-1890	0.517	217.2	-13.1	0.64	1.306	111.9	0.736	3.125	307.6	552.4	0.824	5.426	0.89	0.269	60.6	52.2	3.3	0.240
4- 550	4-1910	0.526	218.2	-13.4	0.67	1.307	112.5	0.740	3.134	306.4	552.9	0.816	5.453	0.88	0.272	59.4	52.7	3.3	0.245
4- 550	4-1930	0.536	219.1	-13.6	0.70	1.307	113.1	0.743	3.144	305.1	553.4	0.808	5.480	0.87	0.275	58.2	53.2	3.3	0.249
4- 550	4-1950	0.546	220.1	-13.9	0.73	1.307	113.7	0.746	3.154	303.8	553.8	0.800	5.508	0.86	0.278	57.0	53.8	3.3	0.253
4- 550	4-1970	0.556	221.0	-14.2	0.76	1.308	114.3	0.750	3.164	302.5	554.3	0.792	5.537	0.85	0.280	55.9	54.5	3.3	0.258
4- 550	4-1990	0.567	222.0	-14.4	0.78	1.308	114.9	0.754	3.175	301.2	554.7	0.783	5.568	0.84	0.283	54.8	55.3	3.3	0.262
4- 550	4-2010	0.578	222.9	-14.7	0.81	1.309	115.5	0.757	3.186	299.8	555.1	0.773	5.599	0.84	0.286	53.8	56.1	3.3	0.267
4- 550	4-2030	0.589	223.9	-15.0	0.84	1.309	116.2	0.761	3.197	298.4	555.4	0.764	5.631	0.83	0.289	52.7	56.9	3.3	0.272
4- 550	4-2050	0.601	224.8	-15.2	0.86	1.309	116.8	0.765	3.208	297.0	555.8	0.753	5.663	0.82	0.291	51.7	57.9	3.3	0.277
4- 550	4-2070	0.613	225.8	-15.5	0.89	1.310	117.5	0.769	3.220	295.5	556.1	0.743	5.697	0.82	0.294	50.7	58.8	3.3	0.281
4- 550	4-2090	0.625	226.7	-15.8	0.92	1.310	118.2	0.773	3.232	294.1	556.4	0.732	5.731	0.82	0.297	49.8	59.9	3.3	0.286
4- 550	4-2110	0.638	227.7	-16.0	0.94	1.311	118.9	0.778	3.244	292.6	556.7	0.721	5.767	0.81	0.299	48.8	60.9	3.3	0.291
4- 550	4-2130	0.651	228.6	-16.3	0.97	1.311	119.7	0.782	3.256	291.0	556.9	0.710	5.803	0.81	0.302	47.9	62.0	3.3	0.296
4- 550	4-2150	0.664	229.6	-16.5	0.99	1.312	120.4	0.787	3.268	289.5	557.2	0.698	5.839	0.81	0.305	47.0	63.2	3.3	0.302
4- 560	4- 920	0.650	211.9	-7.0	2.53	1.516	109.5	1.238-3.717		324.9	480.8	0.886	---	-1.51	0.799	161.0	79.5	2.5	0.784
4- 560	4- 940	0.609	211.1	-6.1	2.63	1.487	108.3	1.163-5.477		326.0	483.5	0.895	---	-1.61	0.743	159.7	79.9	2.5	0.729
4- 560	4- 960	0.574	210.2	-5.2	2.75	1.463	107.2	1.100-9.076		327.2	486.2	0.903	---	-1.72	0.693	158.4	80.2	2.4	0.678
4- 560	4- 980	0.544	209.4	-4.1	2.89	1.442	106.2	1.04520.341		328.3	488.8	0.910	---	-1.85	0.648	157.0	80.5	2.3	0.633
4- 560	4-1000	0.517	208.6	-3.1	3.05	1.424	105.3	0.99803.703		329.4	491.4	0.917	---	-2.00	0.607	155.6	80.7	2.2	0.592
4- 560	4-1020	0.494	207.9	-1.9	3.25	1.408	104.5	0.95721.485		330.4	494.0	0.923	---	-2.18	0.570	154.0	80.8	2.0	0.555
4- 560	4-1040	0.474	207.3	-0.6	3.48	1.395	103.7	0.92211.867		331.3	496.5	0.928	---	-2.41	0.536	152.4	80.9	1.9	0.520
4- 560	4-1060	0.457	206.8	0.9	3.76	1.383	103.1	0.891 8.569		332.2	498.9	0.932	---	-2.68	0.505	150.7	81.0	1.7	0.489
4- 560	4-1080	0.443	206.5	2.5	4.12	1.373	102.5	0.865 6.912		333.1	501.3	0.936	---	-3.03	0.477	149.0	80.9	1.4	0.461
4- 560	4-1100	0.431	206.4	4.4	4.59	1.364	101.9	0.841 5.921		333.8	503.6	0.939	---	-3.49	0.452	147.1	80.8	1.1	0.434
4- 560	4-1120	0.422	206.6	6.9	5.22	1.356	101.5	0.821	5.265	334.5	505.9	0.942	---	-4.12	0.428	145.2	80.7	0.6	0.410
4- 560	4-1140	0.417	207.3	10.0	6.14	1.350	101.1	0.803	4.803	335.1	508.1	0.945	---	-5.02	0.407	143.2	80.4	-0.1	0.388
4- 560	4-1160	0.418	208.9	14.5	7.57	1.344	100.7	0.788	4.461	335.7	510.2	0.947	---	-6.45	0.387	141.1	80.0	-1.2	0.369
4- 560	4-1180	0.433	212.3	21.6	10.15	1.338	100.4	0.774	4.201	336.2	512.2	0.949	---	-9.02	0.369	138.9	79.4	-3.2	0.352
4- 560	4-1200	0.494	221.6	34.3	16.07	1.334	100.1	0.762	3.996	336.6	514.2	0.950	---	-14.94	0.353	136.6	78.2	-7.6	0.341
4- 560	4-1220	0.892	265.8	52.4	41.28	1.330	99.8	0.752	3.833	337.0	516.1	0.952	---	-40.13	0.338	134.2	71.5	-21.1	0.384
4- 560	4-1240	0.778	135.4	-77.0	-34.71	1.326	99.8	0.743	3.701	336.9	517.9	0.952	---	35.86	0.325	131.9	71.3	26.1	0.359
4- 560	4-1260	0.445	179.2	-45.8	-13.02	1.323	99.6	0.735	3.593	337.2	519.7	0.953	---	14.18	0.313	129.4	75.9	14.5	0.297
4- 560	4-1280	0.387	186.4	-31.4	-7.53	1.321	99.5	0.728	3.503	337.3	521.4	0.953	---	8.70	0.302	126.8	75.8	10.5	0.278
4- 560	4-1300	0.368	189.5	-24.0	-5.08	1.318	99.5	0.722	3.428	337.4	523.0	0.954	---	6.26	0.292	124.2	75.1	8.7	0.265
4- 560	4-1320	0.359	191.4	-19.6	-3.70	1.316	99.4	0.717	3.365	337.4	524.6	0.954	---	4.89	0.284	121.6	74.2	7.6	0.254
4- 560	4-1340	0.354	192.7	-16.7	-2.81	1.314	99.4	0.712	3.313	337.3	526.1	0.954	---	4.01	0.276	118.9	73.1	6.9	0.244
4- 560	4-1360	0.351	193.8	-14.7	-2.19	1.313	99.4	0.708	3.268	337.2	527.6	0.954	---	3.40	0.269	116.2	72.0	6.4	0.236
4- 560	4-1380	0.350	194.7	-13.2	-1.73	1.311	99.5	0.705	3.230	337.0	529.0	0.953	---	2.95	0.263	113.5	70.8	6.0	0.228
4- 560	4-1400	0.349	195.5	-12.2	-1.38	1.310	99.6	0.702	3.198	336.7	530.4	0.952	---	2.61	0.259	110.8	69.5	5.7	0.222
4- 560	4-1420	0.349	196.3	-11.4	-1.10	1.309	99.7	0.700	3.171	336.4	531.7	0.952	---	2.34	0.254	108.1	68.2	5.5	0.216
4- 560	4-1440	0.349	197.1	-10.8	-0.88	1.308	99.8	0.698	3.149	336.1	533.0	0.951	---	2.12	0.251	105.5	66.8	5.2	0.211
4- 560	4-1460	0.350	197.9	-10.3	-0.69	1.308	100.0	0.697	3.130	335.7	534.2	0.950	---	1.94	0.248	102.9	65.5	5.1	0.207
4- 560	4-1480	0.351	198.7	-10.0	-0.53	1.307	100.1	0.695	3.114	335.2	535.4	0.948	---	1.79	0.246	100.3	64.1	4.9	0.204
4- 560	4-1500	0.353	199.5	-9.8	-0.39	1.307	100.3	0.695	3.102	334.7	536.5	0.947	---	1.66	0.244	97.8	62.8	4.7	0.201
4- 560	4-1520	0.355	200.3	-9.6	-0.27	1.306	100.5	0.694	3.091	334.2	537.7	0.945	---	1.55	0.243	95.3	61.5	4.6	0.199
4- 560	4-1540	0.357	201.2	-9.6	-0.16	1.306	100.8	0.694	3.083	333.6	538.7	0.943	---	1.45	0.242	92.9	60.3	4.4	0.197
4- 560	4-1560	0.360	202.1	-9.5	-0.07	1.306	101.0	0.694	3.077	333.0	539.7	0.941	---	1.37	0.242	90.6	59.1	4.3	0.196
4- 560	4-1580	0.363	203.0	-9.6	0.01	1.305	101.3	0.694	3.073	332.3	540.7	0.939	5.207	1.30	0.242	88.3	58.0	4.2	0.196
4- 560	4-1600	0.366	204.0	-9.7	0.09	1.305	101.6	0.695	3.070	331.6	541.7	0.937	5.203	1.23	0.243	86.2	56.9	4.1	0.196
4- 560	4-1620	0.370	204.9	-9.8	0.15	1.305	101.9	0.696	3.069	330.9	542.6	0.934	5.203	1.17	0.244	84.1	56.0	4.0	0.197
4- 560	4-1640	0.374	205.9	-9.9	0.22	1.305	102.2	0.696	3.069	330.1	543.5	0.932	5.206	1.12	0.245	82.0	55.1	3.9	0.197
4- 560	4-1660	0.378	206.9	-10.1	0.27	1.305	102.6	0.697	3.070	329.3	544.4	0.929	5.211	1.07	0.246	80.1	54.4	3.8	0.199
4- 560	4-1680	0.383	207.9	-10.3	0.33	1.305	102.9	0.699	3.072	328.4	545.2	0.926	5.218	1.03	0.248	78.2	53.7	3.7	0.200
4- 560	4-1700	0.388	208.9	-10.5	0.37	1.305	103.3	0.700	3.075	327.6	546.0	0.922	5.228	0.99	0.250	76.4	53.2	3.6	0.202
4- 560	4-1720	0.393	209.9	-10.8	0.42	1.306	103.7	0.702	3.079	326.7	546.8	0.919	5.239	0.96	0.251	74.7	52.8	3.6	0.205
4- 560	4-1740	0.399	211.0	-11.0	0.46	1.306	104.1	0.703	3.084	325.7	547.5	0.915	5.252	0.92	0.254	73.1	52.4	3.5	0.207
4- 560	4-1760	0.405	212.0	-11.3	0.50	1.306	104.5	0.705	3.089	324.7	548.3	0.911	5.267	0.90	0.256	71.5	52.2	3.5	0.210
4- 560	4-1780	0.411	213.1	-11.6	0.54	1.306	104.9	0.707	3.095	323.7	548.9	0.906	5.284	0.87	0.258	70.0	52.1	3.4	0.213
4- 560	4-1800	0.418	214.2	-11.9	0.57	1.307	105.4	0.709	3.102	322.7	549.6	0.902	5.302	0.84	0.260	68.5	52.0	3.4	0.216

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 560	4-1820	0.424	215.3	-12.2	0.61	1.307	105.8	0.711	3.109	321.6	550.3	0.897	5.321	0.82	0.263	67.1	52.1	3.3	0.219
4- 560	4-1840	0.432	216.3	-12.4	0.64	1.307	106.3	0.714	3.117	320.5	550.9	0.892	5.341	0.80	0.265	65.7	52.2	3.3	0.222
4- 560	4-1860	0.439	217.4	-12.8	0.67	1.307	106.8	0.716	3.125	319.4	551.5	0.887	5.363	0.78	0.268	64.4	52.4	3.3	0.226
4- 560	4-1880	0.447	218.5	-13.1	0.70	1.308	107.3	0.719	3.133	318.3	552.1	0.881	5.386	0.76	0.270	63.2	52.7	3.2	0.230
4- 560	4-1900	0.455	219.6	-13.4	0.73	1.308	107.8	0.722	3.142	317.1	552.6	0.875	5.410	0.75	0.273	62.0	53.1	3.2	0.233
4- 560	4-1920	0.463	220.7	-13.7	0.75	1.309	108.4	0.724	3.152	315.9	553.1	0.869	5.435	0.73	0.276	60.8	53.6	3.2	0.237
4- 560	4-1940	0.472	221.8	-14.0	0.78	1.309	108.9	0.727	3.162	314.6	553.7	0.862	5.461	0.72	0.278	59.6	54.1	3.2	0.241
4- 560	4-1960	0.481	222.9	-14.3	0.81	1.309	109.5	0.730	3.172	313.4	554.1	0.855	5.488	0.71	0.281	58.6	54.7	3.2	0.245
4- 560	4-1980	0.491	223.9	-14.6	0.83	1.310	110.0	0.733	3.182	312.1	554.6	0.848	5.516	0.69	0.284	57.5	55.4	3.2	0.250
4- 560	4-2000	0.500	225.0	-14.9	0.85	1.310	110.6	0.737	3.193	310.8	555.1	0.841	5.545	0.68	0.287	56.5	56.1	3.2	0.254
4- 560	4-2020	0.510	226.1	-15.2	0.88	1.310	111.2	0.740	3.204	309.5	555.5	0.833	5.574	0.67	0.289	55.5	56.9	3.2	0.258
4- 560	4-2040	0.521	227.2	-15.5	0.90	1.311	111.9	0.744	3.215	308.1	555.9	0.825	5.605	0.67	0.292	54.5	57.7	3.2	0.263
4- 560	4-2060	0.531	228.3	-15.8	0.92	1.311	112.5	0.747	3.226	306.7	556.3	0.816	5.636	0.66	0.295	53.5	58.6	3.2	0.267
4- 560	4-2080	0.542	229.3	-16.0	0.94	1.312	113.1	0.751	3.238	305.3	556.6	0.807	5.668	0.65	0.297	52.6	59.6	3.2	0.272
4- 560	4-2100	0.554	230.4	-16.3	0.96	1.312	113.8	0.754	3.249	303.9	556.9	0.798	5.701	0.64	0.300	51.7	60.6	3.2	0.276
4- 560	4-2120	0.565	231.5	-16.6	0.98	1.313	114.5	0.758	3.261	302.4	557.3	0.788	5.735	0.64	0.302	50.8	61.6	3.2	0.281
4- 560	4-2140	0.577	232.5	-16.9	1.00	1.313	115.2	0.762	3.274	300.9	557.6	0.778	5.769	0.63	0.305	49.9	62.7	3.2	0.286
4- 560	4-2160	0.589	233.6	-17.1	1.02	1.313	115.9	0.766	3.286	299.4	557.8	0.768	5.804	0.63	0.308	49.1	63.8	3.3	0.290
4- 570	4- 910	0.631	213.0	-8.7	1.82	1.545	105.9	1.527	-2.810	332.1	477.1	0.919	---	-0.70	0.852	161.5	80.2	2.8	0.833
4- 570	4- 930	0.587	211.8	-8.0	1.85	1.512	104.7	1.236	-3.931	333.4	479.9	0.927	---	-0.73	0.790	160.3	80.6	2.8	0.772
4- 570	4- 950	0.549	210.5	-7.1	1.89	1.484	103.6	1.159	-5.879	334.7	482.7	0.934	---	-0.76	0.735	159.0	80.9	2.7	0.717
4- 570	4- 970	0.516	209.3	-6.3	1.93	1.460	102.6	1.094	10.049	335.9	485.5	0.940	---	-0.80	0.686	157.7	81.2	2.7	0.668
4- 570	4- 990	0.488	208.0	-5.4	1.97	1.439	101.6	1.038	24.979	337.1	488.3	0.945	---	-0.84	0.641	156.3	81.4	2.7	0.623
4- 570	4-1010	0.463	206.8	-4.5	2.02	1.422	100.8	0.990	96.759	338.3	491.0	0.950	---	-0.88	0.601	154.9	81.6	2.6	0.583
4- 570	4-1030	0.442	205.6	-3.6	2.08	1.407	100.0	0.949	18.764	339.4	493.6	0.954	---	-0.93	0.564	153.3	81.7	2.6	0.546
4- 570	4-1050	0.424	204.5	-2.7	2.14	1.394	99.4	0.914	11.102	340.4	496.2	0.957	---	-0.98	0.531	151.7	81.8	2.6	0.512
4- 570	4-1070	0.408	203.4	-1.8	2.21	1.382	98.7	0.883	8.217	341.4	498.7	0.960	---	-1.05	0.501	150.0	81.8	2.5	0.481
4- 570	4-1090	0.394	202.5	-0.9	2.29	1.372	98.2	0.857	6.713	342.2	501.1	0.963	---	-1.12	0.473	148.2	81.8	2.4	0.453
4- 570	4-1110	0.382	201.6	0.0	2.38	1.364	97.7	0.833	5.795	343.0	503.5	0.965	---	-1.21	0.448	146.4	81.6	2.3	0.427
4- 570	4-1130	0.372	200.8	1.0	2.49	1.356	97.3	0.813	5.180	343.8	505.8	0.967	---	-1.31	0.425	144.4	81.4	2.2	0.403
4- 570	4-1150	0.364	200.2	1.9	2.61	1.350	96.9	0.796	4.743	344.4	508.0	0.968	---	-1.43	0.404	142.4	81.2	2.1	0.381
4- 570	4-1170	0.356	199.7	2.9	2.77	1.344	96.6	0.781	4.417	345.0	510.2	0.970	---	-1.58	0.385	140.3	80.8	2.0	0.361
4- 570	4-1190	0.350	199.3	4.0	2.95	1.339	96.3	0.767	4.168	345.5	512.2	0.971	---	-1.76	0.367	138.1	80.4	1.8	0.343
4- 570	4-1210	0.345	199.2	5.2	3.19	1.334	96.1	0.755	3.972	345.9	514.2	0.972	---	-1.99	0.351	135.8	79.9	1.5	0.326
4- 570	4-1230	0.341	199.3	6.7	3.51	1.330	95.9	0.745	3.816	346.2	516.1	0.972	---	-2.30	0.337	133.4	79.2	1.2	0.310
4- 570	4-1250	0.339	199.6	8.5	3.94	1.327	95.7	0.736	3.688	346.5	518.0	0.973	---	-2.73	0.324	131.0	78.5	0.8	0.296
4- 570	4-1270	0.339	200.4	10.9	4.56	1.324	95.6	0.728	3.584	346.7	519.8	0.973	---	-3.35	0.312	128.5	77.8	0.1	0.283
4- 570	4-1290	0.342	201.9	14.4	5.56	1.321	95.5	0.722	3.497	346.8	521.5	0.973	---	-4.34	0.301	126.0	76.9	-0.9	0.271
4- 570	4-1310	0.354	205.0	20.5	7.41	1.319	95.5	0.716	3.425	346.9	523.1	0.974	---	-6.18	0.292	123.4	75.8	-2.8	0.261
4- 570	4-1330	0.399	213.0	32.9	11.96	1.317	95.4	0.711	3.364	346.9	524.7	0.974	---	-10.73	0.284	120.8	74.4	-7.2	0.256
4- 570	4-1350	0.828	267.1	58.4	38.73	1.315	95.4	0.706	3.313	346.9	526.2	0.974	---	-37.49	0.276	118.1	68.0	-25.0	0.318
4- 570	4-1370	0.498	159.2	-59.8	-19.20	1.314	95.5	0.702	3.270	346.6	527.7	0.973	---	20.44	0.270	115.5	70.2	22.1	0.259
4- 570	4-1390	0.347	181.9	-32.1	-7.27	1.313	95.6	0.699	3.233	346.4	529.1	0.973	---	8.52	0.265	112.8	70.9	11.9	0.230
4- 570	4-1410	0.325	187.4	-21.4	-4.09	1.311	95.7	0.696	3.203	346.2	530.5	0.973	---	5.35	0.260	110.2	69.9	8.8	0.220
4- 570	4-1430	0.319	190.3	-16.2	-2.63	1.310	95.8	0.694	3.177	345.9	531.8	0.972	---	3.90	0.256	107.5	68.7	7.3	0.214
4- 570	4-1450	0.317	192.2	-13.3	-1.80	1.310	95.9	0.692	3.155	345.5	533.1	0.972	---	3.06	0.253	104.9	67.4	6.4	0.209
4- 570	4-1470	0.316	193.7	-11.4	-1.25	1.309	96.1	0.691	3.137	345.1	534.3	0.971	---	2.53	0.250	102.4	66.1	5.8	0.205
4- 570	4-1490	0.316	194.9	-10.3	-0.87	1.308	96.3	0.689	3.122	344.7	535.5	0.970	---	2.15	0.248	99.8	64.7	5.4	0.201
4- 570	4-1510	0.317	196.1	-9.5	-0.58	1.308	96.5	0.688	3.110	344.2	536.6	0.969	---	1.87	0.247	97.4	63.4	5.0	0.198
4- 570	4-1530	0.318	197.3	-9.0	-0.36	1.307	96.7	0.688	3.100	343.6	537.7	0.968	---	1.66	0.246	95.0	62.2	4.8	0.196
4- 570	4-1550	0.320	198.4	-8.6	-0.19	1.307	96.9	0.687	3.093	343.0	538.8	0.967	---	1.49	0.245	92.7	60.9	4.5	0.195
4- 570	4-1570	0.322	199.6	-8.5	-0.05	1.307	97.2	0.687	3.087	342.4	539.8	0.966	---	1.35	0.245	90.4	59.8	4.4	0.194
4- 570	4-1590	0.324	200.7	-8.4	0.07	1.307	97.4	0.687	3.084	341.7	540.8	0.964	5.203	1.24	0.245	88.2	58.7	4.2	0.193
4- 570	4-1610	0.327	201.9	-8.4	0.18	1.307	97.7	0.688	3.081	341.0	541.8	0.963	5.200	1.14	0.246	86.1	57.7	4.0	0.193
4- 570	4-1630	0.329	203.0	-8.5	0.26	1.307	98.0	0.688	3.080	340.3	542.7	0.961	5.200	1.06	0.247	84.1	56.8	3.9	0.194
4- 570	4-1650	0.332	204.2	-8.7	0.34	1.307	98.3	0.689	3.081	339.5	543.6	0.959	5.202	0.99	0.248	82.1	55.9	3.8	0.195
4- 570	4-1670	0.336	205.4	-8.9	0.40	1.307	98.7	0.690	3.082	338.7	544.5	0.957	5.207	0.93	0.249	80.3	55.2	3.7	0.196
4- 570	4-1690	0.340	206.6	-9.1	0.46	1.307	99.0	0.691	3.085	337.9	545.3	0.955	5.214	0.88	0.251	78.5	54.6	3.6	0.197
4- 570	4-1710	0.343	207.8	-9.4	0.52	1.307	99.4	0.692	3.088	337.0	546.1	0.952	5.224	0.83	0.253	76.8	54.0	3.5	0.199
4- 570	4-1730	0.348	209.1	-9.7	0.56	1.307	99.8	0.693	3.092	336.1	546.9	0.950	5.235	0.79	0.255	75.1	53.6	3.4	0.201
4- 570	4-1750	0.352	210.3	-10.0	0.61	1.307	100.2	0.694	3.097	335.1	547.6	0.947	5.247	0.75	0.257	73.5	53.3	3.4	0.203
4- 570	4-1770	0.357	211.6	-10.3	0.65	1.308	100.6	0.696	3.103	334.2	548.4	0.944	5.262	0.72	0.259	72.0	53.1	3.3	0.206
4- 570	4-1790	0.362	212.9	-10.7	0.68	1.308	101.0	0.697	3.109	333.2	549.1	0.941	5.277	0.69	0.261	70.5	52.9	3.3	0.209
4- 570	4-1810	0.368	214.1	-11.0	0.72	1.308	101.4	0.699	3.116	332.1	549.8	0.937	5.295	0.66	0.264	69.1	52.9	3.2	0.212
4- 570	4-1830	0.374	215.4	-11.4	0.75	1.308	101.9	0.701	3.123	331.1	550.4	0.934	5.313	0.64	0.266	67.8	52.9	3.2	0.215
4- 570	4-1850	0.380	216.7	-11.8	0.78	1.309	102.3	0.703	3.131	330.0	551.1	0.930	5.333	0.61	0.269	66.5	53.1	3.1	0.218
4- 570	4-1870	0.386	218.0	-12.1	0.81	1.309	102.8	0.705	3.140	328.9	551.7	0.926	5.354	0.59	0.271	65.3	53.3	3.1	0.221
4- 570	4-1890	0.393	219.3	-12.5	0.83	1.309	103.3	0.707	3.148	327.8	552.3	0.921	5.376	0.58	0.274	64.1	53.6	3.1	0.225
4- 570	4-1910	0.400	220.6	-12.9	0.85	1.310	103.8	0.710	3.158	326.6	552.8	0.917	5.399	0.56	0.276	62.9	54.0	3.1	0.228
4- 570	4-1930	0.407	221.9	-13.3	0.88	1.310	104.3	0.712	3.167	325.4	553.4	0.912	5.423	0.54	0.279	61.8	54.4	3.1	0.232
4- 570	4-1950	0.415	223.1	-13.6	0.90	1.310	104.8	0.715	3.177	324.2	553.9	0.907	5.448	0.53	0.282	60.7	55.0	3.1	0.236
4- 570	4-1970	0.423	224.4	-14.0	0.92	1.311	105.4	0.717	3.187	322.9	554.4	0.901	5.473	0.52	0.284	59.7	55.6	3.1	0.239
4- 570	4-1990	0.431	225.7	-14.4	0.94	1.311	105.9	0.720	3.198	321.7	554.9	0.896	5.500	0.50	0.287	58.7	56.2	3.1	0.243
4- 570	4-2010	0.439	227.0	-14.7	0.96	1.312	106.5	0.723	3.209	320.4	555.4	0.890	5.528	0.49	0.290	57.7	56.9	3.1	0.247
4- 570	4-2030	0.448	228.2	-15.1	0.98	1.312	107.1	0.726	3.220	319.1	555.8	0.883	5.556	0.48	0.292	56.8	57.7	3.1	0.251
4- 570	4-2050	0.458	229.5	-15.4	0.99	1.312	107.7	0.729	3.231	317.7	556.3	0.877	5.585	0.47	0.295	55.8	58.5	3.1	0.255
4- 570	4-2070	0.467	230.7	-15.8	1.01	1.313	108.3	0.732	3.242	316.4	556.7	0.870	5.615	0.46	0.298	54.9	59.4	3.1	0.260
4- 570	4-2090	0.477	232.0	-16.1	1.03	1.313	108.9	0.735	3.254	315.0	557.0	0.862	5.646	0.46	0.300	54.1	60.3	3.1	0.264
4- 570	4-2110	0.487	233.2	-16.4	1.04	1.314	109.5	0.738	3.266	313.6	557.4	0.855	5.677	0.45	0.303	53.2	61.3	3.1	0.268
4- 570	4-2130	0.498	234.4	-16.7	1.06	1.314	110.2	0.742	3.278	312.2	557.8	0.847	5.709	0.44	0.305	52.4	62.3	3.1	0.272

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 590	4-1150	0.338	187.3	2.2	1.23	1.353	88.4	0.799	4.892	3.7	146.9	---	---	0.09	0.412	142.9	82.0	3.1	0.388
4- 590	4-1170	0.333	186.2	2.7	1.23	1.347	88.1	0.783	4.527	4.4	149.2	---	---	0.09	0.392	140.8	81.7	3.1	0.367
4- 590	4-1190	0.328	185.3	3.2	1.22	1.341	87.8	0.769	4.250	4.9	151.3	---	---	0.10	0.373	138.6	81.2	3.1	0.348
4- 590	4-1210	0.324	184.5	3.5	1.22	1.337	87.7	0.757	4.036	5.4	153.4	---	---	0.10	0.357	136.4	80.7	3.1	0.330
4- 590	4-1230	0.321	183.8	3.9	1.21	1.332	87.5	0.746	3.866	5.8	155.4	---	---	0.11	0.342	134.0	80.1	3.1	0.314
4- 590	4-1250	0.317	183.3	4.1	1.21	1.329	87.4	0.737	3.728	6.2	157.3	---	---	0.11	0.328	131.6	79.4	3.1	0.299
4- 590	4-1270	0.315	182.9	4.3	1.20	1.326	87.3	0.729	3.616	6.4	159.1	---	---	0.12	0.316	129.2	78.6	3.1	0.285
4- 590	4-1290	0.312	182.6	4.4	1.19	1.323	87.2	0.722	3.524	6.6	160.9	---	---	0.12	0.305	126.6	77.8	3.1	0.273
4- 590	4-1310	0.310	182.4	4.4	1.18	1.321	87.2	0.716	3.447	6.6	162.5	---	---	0.13	0.295	124.1	76.8	3.1	0.261
4- 590	4-1330	0.308	182.4	4.4	1.17	1.319	87.2	0.710	3.383	6.7	164.2	---	---	0.14	0.287	121.5	75.8	3.1	0.251
4- 590	4-1350	0.306	182.5	4.4	1.16	1.317	87.3	0.705	3.330	6.6	165.7	---	---	0.15	0.279	118.8	74.7	3.1	0.242
4- 590	4-1370	0.304	182.7	4.3	1.15	1.315	87.3	0.701	3.285	6.5	167.2	---	---	0.16	0.273	116.2	73.6	3.1	0.234
4- 590	4-1390	0.302	182.9	4.1	1.14	1.314	87.4	0.698	3.247	6.3	168.6	---	---	0.18	0.267	113.5	72.4	3.1	0.226
4- 590	4-1410	0.301	183.3	3.9	1.12	1.313	87.5	0.695	3.215	6.1	170.0	---	---	0.19	0.262	110.9	71.1	3.1	0.220
4- 590	4-1430	0.299	183.7	3.6	1.10	1.312	87.6	0.692	3.188	5.8	171.3	---	---	0.22	0.258	108.3	69.9	3.1	0.214
4- 590	4-1450	0.298	184.3	3.3	1.07	1.311	87.8	0.690	3.165	5.4	172.6	---	---	0.24	0.255	105.7	68.6	3.1	0.209
4- 590	4-1470	0.297	184.9	2.9	1.03	1.310	88.0	0.688	3.147	5.0	173.8	---	---	0.28	0.252	103.1	67.3	3.2	0.204
4- 590	4-1490	0.296	185.5	2.4	0.98	1.309	88.1	0.686	3.132	4.6	175.0	---	---	0.32	0.250	100.6	66.0	3.2	0.201
4- 590	4-1510	0.295	186.2	1.7	0.92	1.309	88.3	0.685	3.119	4.1	176.2	---	---	0.39	0.249	98.2	64.7	3.3	0.198
4- 590	4-1530	0.294	186.9	1.0	0.81	1.309	88.6	0.684	3.110	3.5	177.3	---	---	0.49	0.248	95.9	63.4	3.4	0.195
4- 590	4-1550	0.293	187.6	-0.2	0.64	1.308	88.8	0.683	3.102	3.0	178.3	---	---	0.67	0.247	93.6	62.2	3.6	0.194
4- 590	4-1570	0.292	188.0	-2.2	0.26	1.308	89.1	0.683	3.096	2.3	179.4	---	---	1.04	0.247	91.3	61.1	4.0	0.192
4- 590	4-1590	0.292	186.7	-8.1	-1.07	1.308	89.3	0.682	3.093	1.7	180.4	---	5.202	2.38	0.247	89.2	59.9	5.7	0.192
4- 590	4-1610	0.349	206.3	31.1	9.58	1.308	89.6	0.682	3.090	1.0	181.3	---	5.198	-8.28	0.248	87.1	59.3	-7.8	0.197
4- 590	4-1630	0.296	195.9	6.8	2.81	1.308	89.9	0.682	3.090	0.2	182.3	---	5.196	-1.51	0.249	85.2	58.1	0.6	0.192
4- 590	4-1650	0.294	196.0	3.5	2.13	1.308	90.2	0.682	3.090	359.5	543.2	0.983	5.197	-0.83	0.250	83.3	57.3	1.5	0.192
4- 590	4-1670	0.294	196.9	1.9	1.87	1.308	90.5	0.682	3.092	358.7	544.1	0.983	5.200	-0.57	0.251	81.4	56.5	1.8	0.193
4- 590	4-1690	0.294	198.1	0.7	1.74	1.308	90.9	0.682	3.094	357.8	544.9	0.983	5.206	-0.44	0.253	79.7	55.9	2.0	0.194
4- 590	4-1710	0.294	199.4	-0.2	1.65	1.308	91.2	0.683	3.098	357.0	545.7	0.983	5.213	-0.35	0.255	78.0	55.3	2.1	0.195
4- 590	4-1730	0.295	200.7	-1.1	1.60	1.308	91.6	0.683	3.103	356.1	546.5	0.982	5.223	-0.30	0.257	76.4	54.9	2.1	0.197
4- 590	4-1750	0.296	202.2	-1.9	1.55	1.309	92.0	0.684	3.108	355.2	547.3	0.982	5.234	-0.26	0.259	74.9	54.5	2.2	0.198
4- 590	4-1770	0.297	203.7	-2.7	1.52	1.309	92.4	0.685	3.114	354.2	548.0	0.981	5.246	-0.22	0.261	73.4	54.3	2.2	0.201
4- 590	4-1790	0.299	205.3	-3.4	1.50	1.309	92.8	0.686	3.120	353.2	548.8	0.981	5.260	-0.20	0.264	72.0	54.1	2.2	0.203
4- 590	4-1810	0.301	206.9	-4.2	1.48	1.309	93.2	0.687	3.128	352.2	549.5	0.980	5.275	-0.18	0.266	70.7	54.0	2.3	0.205
4- 590	4-1830	0.303	208.5	-4.9	1.46	1.310	93.6	0.688	3.135	351.2	550.2	0.979	5.292	-0.17	0.268	69.4	54.1	2.3	0.208
4- 590	4-1850	0.305	210.1	-5.7	1.45	1.310	94.0	0.689	3.143	350.1	550.8	0.977	5.310	-0.15	0.271	68.2	54.2	2.3	0.211
4- 590	4-1870	0.308	211.8	-6.4	1.43	1.310	94.5	0.690	3.152	349.0	551.5	0.976	5.328	-0.14	0.273	67.0	54.3	2.3	0.213
4- 590	4-1890	0.311	213.5	-7.1	1.42	1.311	94.9	0.692	3.161	347.9	552.1	0.974	5.348	-0.13	0.276	65.9	54.6	2.3	0.216
4- 590	4-1910	0.315	215.3	-7.8	1.41	1.311	95.4	0.693	3.171	346.8	552.7	0.973	5.369	-0.12	0.279	64.8	54.9	2.4	0.219
4- 590	4-1930	0.319	217.0	-8.5	1.41	1.311	95.9	0.695	3.181	345.7	553.3	0.971	5.390	-0.12	0.281	63.8	55.3	2.4	0.222
4- 590	4-1950	0.323	218.8	-9.2	1.40	1.312	96.4	0.696	3.191	344.5	553.8	0.969	5.413	-0.11	0.284	62.8	55.8	2.4	0.226
4- 590	4-1970	0.327	220.5	-9.9	1.39	1.312	96.9	0.698	3.201	343.3	554.4	0.966	5.436	-0.10	0.287	61.8	56.4	2.4	0.229
4- 590	4-1990	0.332	222.3	-10.6	1.39	1.313	97.4	0.700	3.212	342.1	554.9	0.964	5.460	-0.10	0.289	60.9	56.9	2.5	0.232
4- 590	4-2010	0.337	224.0	-11.2	1.38	1.313	97.9	0.702	3.223	340.8	555.4	0.961	5.485	-0.09	0.292	60.0	57.6	2.5	0.236
4- 590	4-2030	0.343	225.8	-11.8	1.38	1.313	98.4	0.704	3.234	339.6	555.9	0.958	5.511	-0.09	0.295	59.1	58.3	2.5	0.239
4- 590	4-2050	0.349	227.5	-12.4	1.37	1.314	99.0	0.706	3.246	338.3	556.4	0.954	5.537	-0.09	0.297	58.3	59.1	2.5	0.243
4- 590	4-2070	0.355	229.3	-13.0	1.37	1.314	99.5	0.708	3.258	337.0	556.9	0.951	5.564	-0.08	0.300	57.5	59.9	2.6	0.246
4- 590	4-2090	0.362	231.0	-13.6	1.36	1.315	100.1	0.710	3.269	335.6	557.3	0.947	5.592	-0.08	0.303	56.7	60.8	2.6	0.250
4- 590	4-2110	0.369	232.7	-14.1	1.36	1.315	100.7	0.713	3.282	334.3	557.7	0.943	5.620	-0.08	0.305	55.9	61.7	2.6	0.253
4- 590	4-2130	0.376	234.5	-14.6	1.36	1.315	101.2	0.715	3.294	332.9	558.2	0.938	5.649	-0.08	0.308	55.2	62.6	2.7	0.257
4- 590	4-2150	0.384	236.2	-15.1	1.35	1.316	101.8	0.718	3.306	331.5	558.6	0.934	5.679	-0.07	0.310	54.5	63.6	2.7	0.261
4- 590	4-2170	0.392	237.8	-15.6	1.35	1.316	102.5	0.720	3.319	330.1	558.9	0.929	5.709	-0.07	0.313	53.8	64.7	2.7	0.265
4- 590	4-2190	0.400	239.5	-16.1	1.35	1.317	103.1	0.723	3.332	328.7	559.3	0.923	5.740	-0.07	0.315	53.1	65.8	2.7	0.268
4- 600	4- 880	0.636	208.7	-8.6	1.16	1.649	92.6	1.674-1.457		355.8	467.9	0.982	---	0.31	1.027	163.1	81.3	3.1	1.001
4- 600	4- 900	0.583	206.3	-7.5	1.15	1.598	91.5	1.511-1.924		357.4	471.1	0.983	---	0.31	0.943	162.1	81.7	3.1	0.918
4- 600	4- 920	0.540	203.8	-6.4	1.14	1.555	90.5	1.379-2.594		359.1	474.3	0.983	---	0.31	0.869	161.0	82.0	3.1	0.845
4- 600	4- 940	0.504	201.3	-5.3	1.13	1.520	89.6	1.271-3.625		0.7	117.5	---	---	0.32	0.804	159.9	82.2	3.2	0.781
4- 600	4- 960	0.474	198.8	-4.2	1.12	1.490	88.7	1.182-5.390		2.4	120.6	---	---	0.32	0.746	158.7	82.4	3.2	0.723
4- 600	4- 980	0.450	196.3	-3.0	1.11	1.464	87.9	1.108-9.054		4.0	123.8	---	---	0.33	0.694	157.4	82.6	3.2	0.672
4- 600	4-1000	0.430	193.9	-2.0	1.10	1.443	87.2	1.04721.027		5.5	126.8	---	---	0.33	0.647	156.0	82.8	3.2	0.626
4- 600	4-1020	0.414	191.6	-0.9	1.09	1.424	86.6	0.99586.433		6.9	129.8	---	---	0.34	0.605	154.6	82.8	3.2	0.584
4- 600	4-1040	0.401	189.5	0.0	1.08	1.408	86.0	0.95119.893		8.3	132.7	---	---	0.34	0.567	153.1	82.9	3.2	0.546
4- 600	4-1060	0.390	187.5	0.9	1.07	1.395	85.4	0.91411.298		9.5	135.6	---	---	0.35	0.533	151.5	82.9	3.2	0.512
4- 600	4-1080	0.380	185.6	1.7	1.06	1.383	85.0	0.882 8.249		10.7	138.3	---	---	0.36	0.501	149.8	82.8	3.2	0.480
4- 600	4-1100	0.373	184.0	2.4	1.04	1.373	84.6	0.855 6.698		11.8	140.9	---	---	0.37	0.473	148.0	82.6	3.2	0.452
4- 600	4-1120	0.366	182.5	3.1	1.03	1.364	84.2	0.831 5.764		12.7	143.4	---	---	0.37	0.447	146.1	82.4	3.3	0.425
4- 600	4-1140	0.361	181.1	3.6	1.02	1.356	83.9	0.811 5.144		13.6	145.9	---	---	0.38	0.423	144.2	82.1	3.3	0.401
4- 600	4-1160	0.357	180.0	4.1	1.00	1.349	83.6	0.794 4.706		14.4	148.2	---	---	0.39	0.402	142.1	81.8	3.3	0.379
4- 600	4-1180	0.353	179.0	4.5	0.99	1.344	83.4	0.779 4.382		15.0	150.4	---	---	0.40	0.382	140.0	81.4	3.3	0.359
4- 600	4-1200	0.349	178.1	4.8	0.97	1.339	83.3	0.766 4.135		15.6	152.5	---	---	0.42	0.365	137.8	80.9	3.3	0.340
4- 600	4-1220	0.346	177.4	5.1	0.95	1.334	83.1	0.755 3.941		16.0	154.6	---	---	0.43	0.349	135.5	80.3	3.3	0.323
4- 600	4-1240	0.343	176.8	5.3	0.93	1.330	83.0	0.745 3.787		16.4	156.5	---	---	0.44	0.334	133.1	79.6	3.4	0.308
4- 600	4-1260	0.341	176.4	5.4	0.91	1.327	82.9	0.736 3.662		16.7	158.4	---	---	0.46	0.321	130.7	78.8	3.4	0.293
4- 600	4-1280	0.338	176.0	5.5	0.89	1.324	82.9	0.729 3.560		16.9	160.2	---	---	0.47	0.309	128.2	78.0	3.4	0.280
4- 600	4-1300	0.336	175.8	5.5	0.87	1.321	82.9	0.722 3.476		17.0	161.9	---	---	0.49	0.299	125.6	77.1	3.4	0.268
4- 600	4-1320	0.334	175.7	5.5	0.85	1.319	82.9	0.716 3.406		17.0	163.5	---	---	0.51	0.290	123.0	76.1	3.5	0.258
4- 600	4-1340	0.332	175.7	5.4	0.82	1.317	82.9	0.711 3.347		17.0	165.1	---	---	0.54	0.282	120.3	75.1	3.5	0.248
4- 600	4-1360	0.329	175.8	5.2	0.79	1.315	83.0	0.707 3.298		16.9	166.6	---	---	0.56	0.274	117.7	73.9	3.5	0.239
4- 600	4-1380	0.327	176.0	5.0	0.76	1.314	83.1	0.703 3.257		16.7	168.1	---	---	0.59	0.268	115.0	72.8	3.6	0.231
4- 600	4-1400	0.325	176.2	4.8	0.72	1.313	83.2	0.700 3.222		16.5	169.5	---	---	0.62	0.263	112.3	71.5	3.6	0.224

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 610	4-1690	0.324	181.0	-4.5	-0.93	1.307	82.6	0.687	3.085	18.2	184.8	---	5.206	2.19	0.251	79.6	55.8	5.3	0.196
4- 610	4-1710	0.322	181.7	-6.2	-1.25	1.307	83.0	0.687	3.090	17.3	185.6	---	5.213	2.50	0.253	77.9	55.3	5.7	0.197
4- 610	4-1730	0.320	182.3	-8.4	-1.68	1.307	83.3	0.687	3.095	16.4	186.4	---	5.222	2.92	0.255	76.4	54.9	6.2	0.199
4- 610	4-1750	0.318	182.6	-11.3	-2.28	1.307	83.7	0.687	3.101	15.4	187.2	---	5.232	3.52	0.258	74.9	54.6	6.9	0.201
4- 610	4-1770	0.319	182.4	-15.4	-3.20	1.308	84.1	0.687	3.108	14.5	187.9	---	5.244	4.43	0.260	73.5	54.4	7.9	0.203
4- 610	4-1790	0.324	181.0	-21.7	-4.75	1.308	84.5	0.688	3.115	13.5	188.6	---	5.257	5.98	0.263	72.1	54.3	9.7	0.206
4- 610	4-1810	0.347	176.0	-32.9	-8.00	1.308	84.9	0.688	3.123	12.5	189.3	---	5.272	9.22	0.265	70.8	54.3	13.4	0.212
4- 610	4-1830	0.482	150.6	-55.3	-18.66	1.309	85.3	0.688	3.132	11.5	190.0	---	5.287	19.87	0.268	69.6	55.1	23.6	0.238
4- 610	4-1850	1.185	318.0	74.4	58.47	1.309	85.9	0.689	3.141	10.1	190.7	---	5.304	-57.27	0.270	68.5	63.3	-30.8	0.384
4- 610	4-1870	0.426	218.0	41.9	15.03	1.309	86.2	0.689	3.150	9.2	191.3	---	5.321	-13.84	0.273	67.4	55.9	-12.8	0.227
4- 610	4-1890	0.348	211.1	25.0	8.80	1.310	86.7	0.690	3.160	8.1	191.9	---	5.340	-7.61	0.276	66.3	55.5	-6.2	0.220
4- 610	4-1910	0.325	209.5	16.6	6.42	1.310	87.1	0.690	3.170	7.0	192.6	---	5.359	-5.24	0.279	65.3	55.6	-3.5	0.220
4- 610	4-1930	0.315	209.5	11.4	5.16	1.311	87.6	0.691	3.181	5.9	193.1	---	5.380	-3.99	0.281	64.3	55.9	-2.0	0.222
4- 610	4-1950	0.310	210.3	7.8	4.39	1.311	88.1	0.692	3.192	4.7	193.7	---	5.401	-3.22	0.284	63.4	56.4	-1.1	0.224
4- 610	4-1970	0.306	211.4	5.1	3.86	1.311	88.6	0.693	3.203	3.5	194.3	---	5.422	-2.71	0.287	62.5	56.9	-0.5	0.226
4- 610	4-1990	0.304	212.9	2.9	3.48	1.312	89.0	0.694	3.214	2.3	194.8	---	5.445	-2.33	0.290	61.6	57.4	-0.0	0.229
4- 610	4-2010	0.303	214.5	1.0	3.19	1.312	89.5	0.695	3.226	1.1	195.4	---	5.468	-2.05	0.293	60.8	58.1	0.3	0.232
4- 610	4-2030	0.303	216.2	-0.7	2.96	1.313	90.1	0.696	3.238	359.9	555.9	0.984	5.492	-1.83	0.295	60.0	58.8	0.6	0.235
4- 610	4-2050	0.303	218.1	-2.2	2.78	1.313	90.6	0.697	3.250	358.6	556.4	0.984	5.516	-1.65	0.298	59.3	59.5	0.9	0.238
4- 610	4-2070	0.304	220.0	-3.6	2.63	1.314	91.1	0.698	3.262	357.3	556.9	0.984	5.541	-1.51	0.301	58.6	60.3	1.1	0.241
4- 610	4-2090	0.305	222.0	-4.9	2.50	1.314	91.6	0.700	3.275	356.0	557.4	0.983	5.566	-1.39	0.303	57.9	61.1	1.2	0.244
4- 610	4-2110	0.307	224.1	-6.1	2.39	1.314	92.2	0.701	3.288	354.7	557.8	0.983	5.593	-1.29	0.306	57.2	62.0	1.4	0.247
4- 610	4-2130	0.309	226.2	-7.2	2.29	1.315	92.7	0.703	3.300	353.4	558.3	0.982	5.619	-1.20	0.309	56.5	62.9	1.5	0.250
4- 610	4-2150	0.311	228.3	-8.2	2.21	1.315	93.3	0.704	3.313	352.0	558.7	0.980	5.646	-1.12	0.311	55.9	63.9	1.6	0.253
4- 610	4-2170	0.315	230.4	-9.2	2.14	1.316	93.9	0.706	3.327	350.7	559.1	0.979	5.674	-1.06	0.314	55.3	64.9	1.7	0.257
4- 610	4-2190	0.318	232.6	-10.2	2.07	1.316	94.4	0.707	3.340	349.3	559.5	0.977	5.702	-1.00	0.316	54.7	66.0	1.8	0.260
4- 610	4-2210	0.322	234.8	-11.1	2.01	1.317	95.0	0.709	3.353	347.9	559.9	0.975	5.731	-0.95	0.319	54.1	67.0	1.9	0.263
4- 620	4- 900	0.640	195.9	-3.9	1.06	1.613	79.4	1.549-1.746		17.4	110.8	---	---	0.71	0.971	162.7	81.8	3.3	0.948
4- 620	4- 920	0.601	193.0	-2.7	1.04	1.566	78.7	1.404-2.361		19.4	114.2	---	---	0.71	0.891	161.7	82.0	3.3	0.869
4- 620	4- 940	0.571	190.3	-1.5	1.02	1.527	78.0	1.287-3.301		21.3	117.7	---	---	0.71	0.820	160.6	82.2	3.3	0.800
4- 620	4- 960	0.547	187.7	-0.4	1.00	1.495	77.3	1.193-4.889		23.2	121.2	---	---	0.72	0.758	159.4	82.3	3.3	0.739
4- 620	4- 980	0.528	185.3	0.6	0.98	1.467	76.8	1.116-8.103		25.1	124.6	---	---	0.72	0.703	158.2	82.4	3.3	0.685
4- 620	4-1000	0.513	183.0	1.6	0.96	1.444	76.2	1.05217.874		26.8	127.8	---	---	0.72	0.653	156.9	82.4	3.3	0.637
4- 620	4-1020	0.501	181.0	2.4	0.94	1.424	75.8	1.00037.357		28.5	131.0	---	---	0.73	0.609	155.5	82.4	3.3	0.593
4- 620	4-1040	0.492	179.1	3.2	0.92	1.408	75.4	0.95620.861		30.0	134.1	---	---	0.73	0.569	154.0	82.3	3.4	0.554
4- 620	4-1060	0.484	177.5	3.8	0.90	1.393	75.0	0.91911.342		31.4	137.0	---	---	0.74	0.533	152.4	82.2	3.4	0.518
4- 620	4-1080	0.478	176.0	4.4	0.88	1.381	74.7	0.888 8.170		32.6	139.9	---	---	0.74	0.500	150.7	82.0	3.4	0.486
4- 620	4-1100	0.472	174.7	4.9	0.86	1.370	74.4	0.862 6.595		33.8	142.6	---	---	0.75	0.470	149.0	81.8	3.4	0.457
4- 620	4-1120	0.468	173.6	5.3	0.83	1.361	74.2	0.840 5.660		34.8	145.1	---	---	0.76	0.443	147.1	81.5	3.5	0.430
4- 620	4-1140	0.464	172.7	5.6	0.81	1.353	74.0	0.821 5.045		35.6	147.6	---	---	0.76	0.419	145.1	81.1	3.5	0.405
4- 620	4-1160	0.460	171.9	5.9	0.79	1.346	73.8	0.805 4.613		36.4	149.9	---	---	0.77	0.397	143.1	80.7	3.5	0.383
4- 620	4-1180	0.457	171.2	6.1	0.76	1.340	73.7	0.791 4.295		37.0	152.1	---	---	0.78	0.376	140.9	80.1	3.5	0.363
4- 620	4-1200	0.454	170.6	6.3	0.74	1.335	73.6	0.779 4.054		37.5	154.2	---	---	0.79	0.358	138.6	79.5	3.6	0.344
4- 620	4-1220	0.451	170.2	6.4	0.72	1.331	73.6	0.768 3.866		38.0	156.2	---	---	0.80	0.341	136.3	78.9	3.6	0.327
4- 620	4-1240	0.448	169.8	6.5	0.69	1.327	73.6	0.759 3.717		38.3	158.1	---	---	0.82	0.327	133.8	78.1	3.6	0.311
4- 620	4-1260	0.446	169.6	6.5	0.66	1.323	73.6	0.751 3.596		38.5	159.9	---	---	0.83	0.313	131.3	77.3	3.7	0.297
4- 620	4-1280	0.443	169.4	6.5	0.64	1.320	73.6	0.745 3.498		38.6	161.6	---	---	0.84	0.301	128.7	76.4	3.7	0.284
4- 620	4-1300	0.440	169.3	6.5	0.61	1.318	73.7	0.738 3.417		38.7	163.2	---	---	0.86	0.291	126.0	75.4	3.7	0.272
4- 620	4-1320	0.437	169.3	6.4	0.58	1.316	73.8	0.733 3.351		38.6	164.8	---	---	0.88	0.281	123.3	74.4	3.7	0.261
4- 620	4-1340	0.434	169.4	6.3	0.55	1.314	73.9	0.728 3.295		38.5	166.3	---	---	0.90	0.273	120.6	73.3	3.8	0.252
4- 620	4-1360	0.431	169.5	6.2	0.51	1.312	74.0	0.724 3.249		38.3	167.7	---	---	0.92	0.266	117.8	72.2	3.8	0.243
4- 620	4-1380	0.427	169.7	6.0	0.48	1.311	74.2	0.720 3.210		38.1	169.1	---	---	0.94	0.260	115.0	71.0	3.8	0.235
4- 620	4-1400	0.424	169.9	5.8	0.44	1.309	74.3	0.717 3.178		37.8	170.4	---	---	0.96	0.255	112.2	69.8	3.9	0.229
4- 620	4-1420	0.421	170.2	5.5	0.41	1.308	74.5	0.714 3.152		37.4	171.6	---	---	0.99	0.250	109.5	68.5	3.9	0.223
4- 620	4-1440	0.417	170.6	5.3	0.37	1.308	74.7	0.711 3.130		37.0	172.9	---	---	1.02	0.247	106.7	67.3	3.9	0.217
4- 620	4-1460	0.413	171.0	5.0	0.32	1.307	74.9	0.709 3.112		36.5	174.0	---	---	1.05	0.244	104.1	66.1	4.0	0.213
4- 620	4-1480	0.410	171.4	4.6	0.28	1.306	75.2	0.707 3.097		36.0	175.1	---	---	1.08	0.242	101.4	64.8	4.0	0.209
4- 620	4-1500	0.406	171.9	4.3	0.23	1.306	75.4	0.705 3.086		35.5	176.2	---	---	1.12	0.241	98.9	63.7	4.0	0.206
4- 620	4-1520	0.402	172.4	3.9	0.18	1.306	75.7	0.703 3.077		34.9	177.3	---	---	1.16	0.240	96.4	62.5	4.1	0.203
4- 620	4-1540	0.398	173.0	3.4	0.12	1.305	76.0	0.702 3.070		34.2	178.3	---	---	1.21	0.240	94.0	61.4	4.1	0.201
4- 620	4-1560	0.394	173.6	3.0	0.06	1.305	76.3	0.701 3.066		33.6	179.3	---	---	1.26	0.240	91.7	60.3	4.2	0.200
4- 620	4-1580	0.390	174.3	2.4	-0.01	1.305	76.6	0.699 3.063		32.9	180.2	---	5.206	1.31	0.240	89.5	59.4	4.2	0.198
4- 620	4-1600	0.385	174.9	1.9	-0.08	1.305	76.9	0.698 3.062		32.1	181.1	---	5.201	1.38	0.241	87.4	58.5	4.3	0.198
4- 620	4-1620	0.381	175.7	1.3	-0.17	1.305	77.2	0.697 3.062		31.3	182.0	---	5.198	1.45	0.242	85.4	57.6	4.4	0.197
4- 620	4-1640	0.377	176.4	0.6	-0.26	1.305	77.5	0.697 3.064		30.5	182.9	---	5.199	1.53	0.244	83.4	56.9	4.4	0.198
4- 620	4-1660	0.373	177.2	-0.1	-0.36	1.305	77.9	0.696 3.067		29.7	183.7	---	5.201	1.62	0.246	81.6	56.2	4.5	0.198
4- 620	4-1680	0.369	178.0	-0.9	-0.47	1.305	78.2	0.695 3.071		28.8	184.5	---	5.206	1.72	0.248	79.9	55.7	4.6	0.199
4- 620	4-1700	0.364	178.8	-1.8	-0.60	1.305	78.6	0.695 3.075		27.9	185.3	---	5.212	1.84	0.250	78.2	55.2	4.8	0.200
4- 620	4-1720	0.360	179.7	-2.8	-0.76	1.306	79.0	0.694 3.081		27.0	186.1	---	5.221	1.98	0.252	76.6	54.8	4.9	0.201
4- 620	4-1740	0.356	180.5	-3.9	-0.93	1.306	79.4	0.694 3.087		26.1	186.8	---	5.230	2.15	0.254	75.1	54.5	5.1	0.202
4- 620	4-1760	0.352	181.4	-5.2	-1.15	1.306	79.7	0.694 3.094		25.1	187.6	---	5.242	2.35	0.257	73.7	54.3	5.3	0.204
4- 620	4-1780	0.348	182.2	-6.6	-1.40	1.307	80.1	0.694 3.102		24.1	188.3	---	5.254	2.60	0.259	72.3	54.1	5.6	0.206
4- 620	4-1800	0.345	183.0	-8.3	-1.72	1.307	80.6	0.694 3.111		23.1	189.0	---	5.268	2.90	0.262	71.0	54.1	6.0	0.208
4- 620	4-1820	0.342	183.7	-10.3	-2.12	1.307	81.0	0.694 3.119		22.1	189.6	---	5.283	3.29	0.265	69.8	54.1	6.4	0.210
4- 620	4-1840	0.339	184.1	-12.9	-2.65	1.308	81.4	0.694 3.129		21.0	190.3	---	5.299	3.81	0.268	68.7	54.3	7.0	0.212
4- 620	4-1860	0.338	184.3	-16.1	-3.38	1.308	81.8	0.694 3.138		20.0	191.0	---	5.315	4.54	0.270	67.5	54.4	7.8	0.215
4- 620	4-1880	0.340	183.9	-20.6	-4.46	1.308	82.3	0.694 3.149		18.9	191.6	---	5.333	5.60	0.273	66.5	54.7	8.9	0.218
4- 620	4-1900	0.347	182.1	-27.1	-6.20	1.309	82.7	0.694 3.159		17.8	192.2	---	5.352	7.34	0.276	65.5	55.1	10.8	0.222
4- 620	4-1920	0.373	176.8	-37.4	-9.51	1.309	83.2	0.694 3.170		16.6	192.8	---	5.371	10.63	0.279	64.5	55.7	14.2	0.229
4- 620	4-1940	0.481	156.2	-54.4	-18.06	1.310	83.6	0.695 3.181		15.5	193.4	---	5.392	19.17	0.282	63.6	57.0	22.0	0.250

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 620	4-1960	1.297	72.6	-45.4	-66.32	1.310	84.0	0.695	3.193	14.7	193.9	---	5.413	67.42	0.285	62.7	67.8	35.2	0.437
4- 620	4-1980	0.622	234.0	59.8	27.07	1.310	84.7	0.696	3.204	12.9	194.5	---	5.434	-25.99	0.288	61.9	60.8	-21.3	0.274
4- 620	4-2000	0.411	219.8	35.9	13.54	1.311	85.2	0.696	3.216	11.7	195.0	---	5.456	-12.47	0.291	61.1	58.9	-10.5	0.242
4- 620	4-2020	0.358	216.5	23.6	9.20	1.311	85.7	0.697	3.229	10.5	195.6	---	5.479	-8.13	0.293	60.4	59.0	-6.1	0.239
4- 620	4-2040	0.336	215.8	16.2	7.08	1.312	86.2	0.698	3.241	9.3	196.1	---	5.502	-6.03	0.296	59.6	59.5	-3.8	0.239
4- 620	4-2060	0.325	216.2	11.3	5.83	1.312	86.7	0.698	3.254	8.1	196.6	---	5.526	-4.79	0.299	58.9	60.2	-2.4	0.241
4- 620	4-2080	0.318	217.2	7.8	5.00	1.313	87.2	0.699	3.267	6.8	197.1	---	5.551	-3.97	0.302	58.3	60.9	-1.5	0.243
4- 620	4-2100	0.314	218.6	4.7	4.42	1.313	87.7	0.700	3.280	5.5	197.5	---	5.576	-3.39	0.304	57.6	61.8	-0.8	0.246
4- 620	4-2120	0.311	220.2	2.3	3.98	1.314	88.3	0.701	3.293	4.2	198.0	---	5.601	-2.97	0.307	57.0	62.7	-0.4	0.248
4- 620	4-2140	0.309	221.9	0.2	3.63	1.314	88.8	0.702	3.306	2.8	198.5	---	5.627	-2.63	0.310	56.4	63.6	0.0	0.251
4- 620	4-2160	0.308	223.8	-1.6	3.36	1.315	89.4	0.703	3.320	1.5	198.9	---	5.654	-2.37	0.312	55.8	64.6	0.4	0.254
4- 620	4-2180	0.307	225.9	-3.2	3.13	1.315	89.9	0.704	3.333	0.1	199.3	---	5.681	-2.16	0.315	55.2	65.6	0.6	0.257
4- 620	4-2200	0.307	228.0	-4.7	2.95	1.316	90.5	0.706	3.347	358.8	559.7	0.985	5.708	-1.98	0.318	54.7	66.6	0.8	0.260
4- 620	4-2220	0.308	230.2	-6.0	2.79	1.316	91.1	0.707	3.360	357.4	560.1	0.985	5.736	-1.83	0.320	54.1	67.7	1.0	0.263
4- 630	4- 950	0.632	185.1	0.2	1.00	1.512	71.3	1.232	-3.866	33.7	120.8	---	---	0.89	0.793	160.7	81.8	3.3	0.778
4- 630	4- 970	0.612	182.9	1.2	0.98	1.481	70.9	1.147	-6.024	35.7	124.3	---	---	0.89	0.733	159.6	81.9	3.4	0.719
4- 630	4- 990	0.596	180.9	2.0	0.95	1.455	70.4	1.079	11.159	37.6	127.7	---	---	0.89	0.679	158.3	81.9	3.4	0.667
4- 630	4-1010	0.583	179.1	2.8	0.93	1.433	70.1	1.023	38.216	39.4	131.1	---	---	0.89	0.630	157.0	81.8	3.4	0.620
4- 630	4-1030	0.573	177.4	3.4	0.90	1.414	69.7	0.977	37.235	41.0	134.2	---	---	0.89	0.587	155.5	81.7	3.4	0.578
4- 630	4-1050	0.564	176.0	4.0	0.88	1.398	69.5	0.938	13.982	42.5	137.3	---	---	0.89	0.548	154.0	81.6	3.4	0.540
4- 630	4-1070	0.557	174.7	4.4	0.86	1.384	69.2	0.906	9.150	43.9	140.2	---	---	0.90	0.513	152.4	81.3	3.5	0.505
4- 630	4-1090	0.551	173.7	4.8	0.83	1.373	69.0	0.880	7.072	45.0	142.9	---	---	0.90	0.481	150.6	81.1	3.5	0.474
4- 630	4-1110	0.546	172.7	5.2	0.81	1.363	68.8	0.857	5.924	46.1	145.5	---	---	0.90	0.452	148.8	80.7	3.5	0.446
4- 630	4-1130	0.542	171.9	5.6	0.78	1.354	68.7	0.838	5.202	47.0	148.0	---	---	0.91	0.426	146.9	80.3	3.5	0.420
4- 630	4-1150	0.538	171.3	5.7	0.76	1.347	68.6	0.821	4.709	47.7	150.3	---	---	0.91	0.402	144.8	79.8	3.6	0.396
4- 630	4-1170	0.534	170.7	5.9	0.73	1.340	68.6	0.807	4.354	48.4	152.5	---	---	0.92	0.380	142.7	79.3	3.6	0.375
4- 630	4-1190	0.530	170.3	6.0	0.70	1.335	68.5	0.795	4.089	48.9	154.6	---	---	0.93	0.361	140.4	78.7	3.6	0.355
4- 630	4-1210	0.527	169.9	6.1	0.68	1.330	68.5	0.785	3.884	49.3	156.6	---	---	0.93	0.343	138.1	78.0	3.6	0.337
4- 630	4-1230	0.523	169.6	6.1	0.65	1.326	68.5	0.776	3.724	49.6	158.5	---	---	0.94	0.327	135.6	77.2	3.7	0.321
4- 630	4-1250	0.520	169.5	6.1	0.62	1.322	68.6	0.768	3.595	49.8	160.2	---	---	0.95	0.313	133.1	76.4	3.7	0.306
4- 630	4-1270	0.516	169.3	6.1	0.59	1.319	68.7	0.761	3.491	49.9	161.9	---	---	0.96	0.300	130.4	75.5	3.7	0.293
4- 630	4-1290	0.512	169.3	6.1	0.56	1.316	68.8	0.754	3.406	49.9	163.5	---	---	0.97	0.289	127.7	74.5	3.7	0.280
4- 630	4-1310	0.509	169.3	6.0	0.53	1.314	68.9	0.749	3.336	49.8	165.1	---	---	0.98	0.279	125.0	73.5	3.8	0.269
4- 630	4-1330	0.506	169.4	5.9	0.50	1.312	69.0	0.744	3.278	49.7	166.5	---	---	1.00	0.270	122.1	72.4	3.8	0.259
4- 630	4-1350	0.501	169.5	5.8	0.47	1.310	69.2	0.740	3.230	49.5	167.9	---	---	1.01	0.262	119.3	71.2	3.8	0.251
4- 630	4-1370	0.497	169.7	5.6	0.44	1.309	69.4	0.736	3.191	49.2	169.2	---	---	1.03	0.256	116.4	70.1	3.9	0.243
4- 630	4-1390	0.493	169.9	5.4	0.41	1.307	69.6	0.733	3.158	48.8	170.5	---	---	1.05	0.250	113.5	68.9	3.9	0.235
4- 630	4-1410	0.489	170.2	5.2	0.37	1.306	69.8	0.729	3.130	48.5	171.7	---	---	1.07	0.246	110.6	67.7	3.9	0.229
4- 630	4-1430	0.485	170.5	5.0	0.33	1.305	70.0	0.727	3.108	48.0	172.9	---	---	1.09	0.242	107.8	66.5	3.9	0.224
4- 630	4-1450	0.480	170.8	4.8	0.29	1.305	70.3	0.724	3.090	47.5	174.1	---	---	1.11	0.239	105.0	65.3	4.0	0.219
4- 630	4-1470	0.476	171.2	4.5	0.25	1.304	70.5	0.722	3.075	47.0	175.1	---	---	1.13	0.237	102.3	64.1	4.0	0.215
4- 630	4-1490	0.471	171.6	4.2	0.21	1.304	70.8	0.720	3.063	46.4	176.2	---	---	1.16	0.235	99.6	62.9	4.0	0.212
4- 630	4-1510	0.467	172.1	3.9	0.17	1.303	71.1	0.718	3.055	45.8	177.2	---	---	1.19	0.234	97.0	61.8	4.0	0.209
4- 630	4-1530	0.462	172.6	3.6	0.12	1.303	71.4	0.716	3.048	45.1	178.2	---	---	1.22	0.234	94.5	60.7	4.1	0.207
4- 630	4-1550	0.457	173.1	3.2	0.07	1.303	71.7	0.714	3.044	44.4	179.1	---	---	1.25	0.234	92.1	59.7	4.1	0.205
4- 630	4-1570	0.452	173.7	2.8	0.02	1.303	72.0	0.713	3.041	43.7	180.1	---	5.209	1.29	0.235	89.8	58.8	4.1	0.204
4- 630	4-1590	0.447	174.3	2.4	-0.04	1.303	72.3	0.711	3.041	42.9	181.0	---	5.204	1.33	0.236	87.7	57.9	4.1	0.203
4- 630	4-1610	0.442	174.9	1.9	-0.10	1.303	72.7	0.710	3.041	42.1	181.8	---	5.201	1.38	0.237	85.6	57.1	4.2	0.202
4- 630	4-1630	0.437	175.5	1.4	-0.16	1.303	73.0	0.709	3.043	41.3	182.7	---	5.201	1.43	0.239	83.6	56.4	4.2	0.202
4- 630	4-1650	0.432	176.2	0.9	-0.23	1.303	73.4	0.708	3.046	40.4	183.5	---	5.203	1.48	0.240	81.7	55.8	4.3	0.203
4- 630	4-1670	0.426	176.9	0.4	-0.30	1.303	73.8	0.707	3.050	39.5	184.3	---	5.207	1.54	0.243	79.9	55.2	4.3	0.203
4- 630	4-1690	0.421	177.7	-0.2	-0.39	1.303	74.1	0.706	3.056	38.6	185.0	---	5.213	1.61	0.245	78.2	54.8	4.4	0.204
4- 630	4-1710	0.416	178.4	-0.9	-0.48	1.304	74.5	0.705	3.062	37.7	185.8	---	5.221	1.68	0.247	76.6	54.4	4.5	0.205
4- 630	4-1730	0.411	179.2	-1.6	-0.57	1.304	74.9	0.705	3.068	36.8	186.5	---	5.231	1.77	0.250	75.0	54.1	4.6	0.206
4- 630	4-1750	0.405	180.0	-2.3	-0.68	1.304	75.3	0.704	3.076	35.8	187.3	---	5.242	1.87	0.252	73.6	53.9	4.7	0.207
4- 630	4-1770	0.400	180.9	-3.2	-0.81	1.304	75.7	0.703	3.084	34.8	188.0	---	5.254	1.97	0.255	72.2	53.8	4.8	0.209
4- 630	4-1790	0.395	181.7	-4.1	-0.95	1.305	76.1	0.703	3.093	33.8	188.6	---	5.267	2.10	0.258	70.9	53.8	4.9	0.211
4- 630	4-1810	0.389	182.6	-5.0	-1.10	1.305	76.6	0.703	3.102	32.7	189.3	---	5.281	2.24	0.261	69.7	53.8	5.1	0.212
4- 630	4-1830	0.384	183.4	-6.1	-1.28	1.306	77.0	0.702	3.112	31.7	190.0	---	5.297	2.41	0.264	68.5	54.0	5.2	0.214
4- 630	4-1850	0.379	184.3	-7.4	-1.50	1.306	77.5	0.702	3.122	30.6	190.6	---	5.313	2.61	0.267	67.4	54.2	5.5	0.217
4- 630	4-1870	0.375	185.2	-8.7	-1.75	1.306	77.9	0.702	3.133	29.5	191.2	---	5.331	2.84	0.270	66.4	54.4	5.7	0.219
4- 630	4-1890	0.370	186.0	-10.3	-2.05	1.307	78.4	0.701	3.144	28.4	191.8	---	5.349	3.13	0.273	65.4	54.8	6.0	0.221
4- 630	4-1910	0.366	186.7	-12.2	-2.42	1.307	78.8	0.701	3.155	27.2	192.4	---	5.367	3.49	0.276	64.4	55.2	6.4	0.223
4- 630	4-1930	0.362	187.3	-14.4	-2.89	1.308	79.3	0.701	3.166	26.1	193.0	---	5.387	3.94	0.279	63.5	55.6	6.9	0.226
4- 630	4-1950	0.360	187.8	-17.1	-3.49	1.308	79.8	0.701	3.178	24.9	193.6	---	5.407	4.54	0.282	62.7	56.1	7.6	0.229
4- 630	4-1970	0.358	187.8	-20.5	-4.32	1.309	80.3	0.701	3.191	23.7	194.1	---	5.428	5.35	0.285	61.9	56.7	8.4	0.232
4- 630	4-1990	0.361	187.2	-25.2	-5.52	1.309	80.7	0.701	3.203	22.5	194.7	---	5.450	6.54	0.288	61.1	57.4	9.6	0.235
4- 630	4-2010	0.370	185.2	-31.6	-7.40	1.310	81.2	0.702	3.216	21.3	195.2	---	5.472	8.40	0.291	60.3	58.2	11.5	0.240
4- 630	4-2030	0.398	179.4	-41.4	-10.77	1.310	81.7	0.702	3.228	20.1	195.7	---	5.494	11.76	0.294	59.6	59.2	14.7	0.247
4- 630	4-2050	0.495	160.2	-55.4	-18.50	1.311	82.2	0.702	3.242	18.9	196.2	---	5.518	19.48	0.297	58.9	60.9	21.3	0.266
4- 630	4-2070	1.005	93.0	-53.8	-48.89	1.311	82.6	0.703	3.255	17.9	196.7	---	5.542	49.85	0.300	58.3	69.2	34.1	0.375
4- 630	4-2090	0.885	250.7	73.5	42.05	1.311	83.5	0.703	3.268	15.8	197.2	---	5.564	-41.11	0.302	57.7	69.1	-26.6	0.342
4- 630	4-2110	0.489	227.6	44.2	18.60	1.312	83.9	0.703	3.282	14.7	197.7	---	5.589	-17.67	0.305	57.1	64.2	-14.1	0.269
4- 630	4-2130	0.396	223.3	28.9	11.94	1.312	84.4	0.704	3.295	13.5	198.1	---	5.615	-11.02	0.308	56.5	64.0	-8.2	0.259
4- 630	4-2150	0.360	222.3	19.7	8.89	1.313	85.0	0.704	3.309	12.2	198.6	---	5.640	-7.99	0.311	56.0	64.6	-5.2	0.257
4- 630	4-2170	0.342	222.5	13.6	7.15	1.313	85.5	0.705	3.323	10.8	199.0	---	5.666	-6.26	0.313	55.4	65.4	-3.5	0.258
4- 630	4-2190	0.331	223.4	9.1	6.02	1.314	86.1	0.706	3.337	9.5	199.5	---	5.692	-5.15	0.316	54.9	66.4	-2.3	0.260
4- 630	4-2210	0.324	224.7	5.7	5.23	1.314	86.6	0.707	3.351	8.1	199.9	---	5.719	-4.37	0.318	54.4	67.4	-1.5	0.263
4- 630	4-2230	0.319	226.3	2.9	4.65	1.315	87.2	0.707	3.365	6.7	200.3	---	5.746	-3.80	0.321	53.9	68.4	-0.9	0.265
4- 640	4-1000	0.683	178.6	2.6	0.95	1.441	63.9	1.044	18.120	51.0	131.8	---	---	1.06	0.653	158.7	81.0	3.4	0.649

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 640	4-1020	0.670	177.2	3.1	0.92	1.420	63.7	0.99734	928	52.7	135.0	---	---	1.05	0.606	157.3	80.8	3.4	0.604
4- 640	4-1040	0.660	176.0	3.6	0.90	1.403	63.5	0.95718	518	54.3	138.2	---	---	1.05	0.564	155.8	80.6	3.5	0.563
4- 640	4-1060	0.651	175.0	4.0	0.87	1.388	63.4	0.92510	436	55.6	141.1	---	---	1.05	0.526	154.3	80.4	3.5	0.526
4- 640	4-1080	0.644	174.1	4.3	0.84	1.375	63.2	0.898	7.624	56.9	143.9	---	---	1.05	0.491	152.6	80.1	3.5	0.493
4- 640	4-1100	0.638	173.3	4.6	0.81	1.364	63.2	0.875	6.205	57.9	146.5	---	---	1.04	0.460	150.8	79.7	3.5	0.463
4- 640	4-1120	0.632	172.7	4.8	0.78	1.355	63.1	0.856	5.357	58.8	148.9	---	---	1.04	0.432	148.9	79.2	3.5	0.436
4- 640	4-1140	0.626	172.1	5.0	0.75	1.347	63.1	0.840	4.796	59.6	151.2	---	---	1.04	0.406	146.9	78.7	3.6	0.411
4- 640	4-1160	0.621	171.7	5.1	0.72	1.340	63.1	0.826	4.401	60.1	153.4	---	---	1.05	0.383	144.8	78.1	3.6	0.389
4- 640	4-1180	0.617	171.4	5.2	0.70	1.334	63.1	0.814	4.111	60.6	155.5	---	---	1.05	0.362	142.5	77.5	3.6	0.368
4- 640	4-1200	0.612	171.1	5.2	0.67	1.328	63.2	0.804	3.890	61.0	157.4	---	---	1.05	0.343	140.2	76.8	3.6	0.349
4- 640	4-1220	0.608	170.9	5.3	0.64	1.324	63.3	0.795	3.719	61.2	159.2	---	---	1.05	0.326	137.7	76.0	3.7	0.332
4- 640	4-1240	0.603	170.8	5.3	0.61	1.320	63.4	0.787	3.583	61.4	160.9	---	---	1.06	0.311	135.1	75.1	3.7	0.317
4- 640	4-1260	0.599	170.7	5.2	0.58	1.317	63.5	0.780	3.473	61.4	162.6	---	---	1.06	0.297	132.4	74.2	3.7	0.303
4- 640	4-1280	0.594	170.7	5.2	0.55	1.314	63.6	0.774	3.385	61.4	164.1	---	---	1.07	0.285	129.7	73.2	3.7	0.290
4- 640	4-1300	0.590	170.8	5.1	0.52	1.311	63.8	0.769	3.312	61.2	165.6	---	---	1.08	0.274	126.8	72.2	3.8	0.279
4- 640	4-1320	0.585	170.9	5.0	0.49	1.309	64.0	0.764	3.252	61.0	167.0	---	---	1.09	0.265	123.9	71.1	3.8	0.269
4- 640	4-1340	0.581	171.0	4.9	0.45	1.307	64.2	0.759	3.203	60.8	168.3	---	---	1.09	0.257	120.9	70.0	3.8	0.259
4- 640	4-1360	0.578	171.2	4.7	0.42	1.306	64.4	0.755	3.162	60.5	169.6	---	---	1.11	0.250	117.9	68.8	3.8	0.251
4- 640	4-1380	0.571	171.6	4.6	0.39	1.305	64.6	0.752	3.129	60.2	170.8	---	---	1.12	0.244	114.9	67.7	3.8	0.244
4- 640	4-1400	0.566	171.7	4.4	0.35	1.304	64.9	0.748	3.101	59.8	172.0	---	---	1.13	0.239	111.9	66.5	3.9	0.237
4- 640	4-1420	0.561	172.0	4.2	0.32	1.303	65.2	0.745	3.078	59.2	173.1	---	---	1.14	0.235	108.9	65.3	3.9	0.232
4- 640	4-1440	0.556	172.3	4.0	0.28	1.302	65.4	0.743	3.060	58.6	174.2	---	---	1.16	0.232	106.0	64.1	3.9	0.227
4- 640	4-1460	0.551	172.6	3.8	0.25	1.301	65.7	0.740	3.046	58.0	175.3	---	---	1.17	0.230	103.1	63.0	3.9	0.223
4- 640	4-1480	0.545	173.0	3.5	0.21	1.301	66.0	0.738	3.034	57.4	176.3	---	---	1.19	0.228	100.3	61.9	3.9	0.219
4- 640	4-1500	0.540	173.4	3.2	0.17	1.300	66.3	0.736	3.026	56.9	177.3	---	---	1.21	0.227	97.5	60.8	3.9	0.216
4- 640	4-1520	0.535	173.9	3.0	0.13	1.300	66.7	0.734	3.020	56.0	178.2	---	---	1.23	0.227	94.9	59.8	4.0	0.214
4- 640	4-1540	0.529	174.3	2.7	0.08	1.300	67.0	0.732	3.016	55.3	179.1	---	---	1.26	0.227	92.4	58.8	4.0	0.212
4- 640	4-1560	0.523	174.8	2.3	0.04	1.300	67.3	0.730	3.013	54.5	180.0	---	---	1.28	0.228	90.0	57.9	4.0	0.211
4- 640	4-1580	0.517	175.3	2.0	-0.01	1.300	67.7	0.728	3.013	53.7	180.9	---	5.207	1.31	0.229	87.7	57.1	4.0	0.210
4- 640	4-1600	0.512	175.9	1.8	-0.06	1.300	68.0	0.727	3.014	52.9	181.7	---	5.204	1.34	0.230	85.5	56.4	4.0	0.209
4- 640	4-1620	0.506	176.5	1.3	-0.11	1.300	68.4	0.725	3.017	52.1	182.5	---	5.204	1.37	0.232	83.4	55.7	4.0	0.209
4- 640	4-1640	0.500	177.1	0.9	-0.16	1.300	68.8	0.724	3.020	51.2	183.3	---	5.206	1.41	0.234	81.5	55.1	4.1	0.209
4- 640	4-1660	0.494	177.7	0.4	-0.22	1.300	69.2	0.722	3.025	50.3	184.1	---	5.210	1.45	0.236	79.6	54.6	4.1	0.209
4- 640	4-1680	0.488	178.3	-0.0	-0.28	1.301	69.6	0.721	3.031	49.3	184.8	---	5.216	1.49	0.239	77.9	54.2	4.1	0.210
4- 640	4-1700	0.481	179.0	-0.5	-0.34	1.301	70.0	0.720	3.037	48.4	185.5	---	5.224	1.54	0.241	76.2	53.9	4.2	0.210
4- 640	4-1720	0.475	179.7	-1.0	-0.41	1.301	70.4	0.719	3.044	47.4	186.3	---	5.233	1.59	0.244	74.6	53.6	4.2	0.211
4- 640	4-1740	0.469	180.4	-1.5	-0.48	1.302	70.8	0.718	3.052	46.4	187.0	---	5.244	1.64	0.247	73.2	53.4	4.3	0.213
4- 640	4-1760	0.463	181.1	-2.1	-0.56	1.302	71.2	0.717	3.061	45.4	187.6	---	5.256	1.70	0.250	71.8	53.4	4.4	0.214
4- 640	4-1780	0.456	181.9	-2.7	-0.65	1.302	71.7	0.716	3.070	44.4	188.3	---	5.269	1.77	0.253	70.4	53.3	4.4	0.216
4- 640	4-1800	0.450	182.6	-3.4	-0.74	1.303	72.1	0.715	3.080	43.3	189.0	---	5.283	1.85	0.256	69.2	53.4	4.5	0.217
4- 640	4-1820	0.444	183.4	-4.1	-0.85	1.303	72.6	0.715	3.090	42.2	189.6	---	5.298	1.94	0.259	68.0	53.5	4.6	0.219
4- 640	4-1840	0.437	184.3	-4.8	-0.96	1.304	73.0	0.714	3.101	41.2	190.2	---	5.314	2.03	0.262	66.9	53.8	4.7	0.221
4- 640	4-1860	0.431	185.1	-5.6	-1.08	1.304	73.5	0.713	3.112	40.0	190.8	---	5.331	2.14	0.265	65.9	54.0	4.8	0.223
4- 640	4-1880	0.425	186.0	-6.5	-1.22	1.304	73.9	0.713	3.123	38.9	191.4	---	5.349	2.26	0.269	64.9	54.4	4.9	0.225
4- 640	4-1900	0.419	186.8	-7.5	-1.38	1.305	74.4	0.712	3.135	37.8	192.0	---	5.367	2.40	0.272	64.0	54.8	5.1	0.227
4- 640	4-1920	0.413	187.7	-8.5	-1.56	1.305	74.9	0.711	3.147	36.6	192.6	---	5.387	2.57	0.275	63.1	55.2	5.3	0.229
4- 640	4-1940	0.407	188.6	-9.7	-1.77	1.306	75.4	0.711	3.160	35.4	193.2	---	5.406	2.75	0.278	62.2	55.8	5.5	0.231
4- 640	4-1960	0.401	189.4	-11.0	-2.00	1.306	75.9	0.711	3.172	34.3	193.7	---	5.427	2.98	0.281	61.4	56.3	5.7	0.234
4- 640	4-1980	0.398	190.3	-12.4	-2.29	1.307	76.4	0.710	3.185	33.0	194.3	---	5.448	3.24	0.284	60.7	57.0	6.0	0.236
4- 640	4-2000	0.390	191.1	-14.1	-2.62	1.307	76.9	0.710	3.198	31.8	194.8	---	5.469	3.56	0.288	60.0	57.6	6.3	0.238
4- 640	4-2020	0.386	191.8	-16.0	-3.04	1.308	77.4	0.710	3.212	30.6	195.3	---	5.491	3.96	0.291	59.3	58.4	6.7	0.241
4- 640	4-2040	0.382	192.4	-18.4	-3.56	1.308	77.9	0.710	3.225	29.3	195.8	---	5.514	4.47	0.294	58.6	59.1	7.2	0.244
4- 640	4-2060	0.379	192.8	-21.2	-4.23	1.309	78.4	0.709	3.239	28.1	196.3	---	5.537	5.12	0.297	58.0	60.0	7.9	0.246
4- 640	4-2080	0.378	192.7	-24.8	-5.14	1.309	78.9	0.709	3.253	26.8	196.8	---	5.560	6.02	0.300	57.4	60.9	8.8	0.250
4- 640	4-2100	0.380	192.0	-29.5	-6.44	1.310	79.4	0.709	3.267	25.5	197.3	---	5.584	7.30	0.303	56.8	61.8	10.0	0.253
4- 640	4-2120	0.391	189.6	-35.9	-8.44	1.310	80.0	0.709	3.281	24.2	197.8	---	5.609	9.28	0.305	56.3	62.9	11.9	0.258
4- 640	4-2140	0.421	183.4	-45.2	-11.91	1.311	80.5	0.710	3.295	22.9	198.2	---	5.634	12.74	0.308	55.8	64.2	15.0	0.265
4- 640	4-2160	0.516	163.7	-57.5	-19.40	1.311	81.0	0.710	3.310	21.7	198.7	---	5.659	20.21	0.311	55.3	66.3	21.0	0.283
4- 640	4-2180	0.924	104.2	-56.2	-44.07	1.312	81.5	0.710	3.324	20.6	199.1	---	5.685	44.86	0.314	54.8	73.8	32.4	0.368
4- 640	4-2200	1.115	261.6	82.8	55.33	1.312	82.4	0.710	3.339	18.2	199.5	---	5.708	-54.55	0.316	54.4	78.7	-27.9	0.408
4- 640	4-2220	0.585	233.5	49.5	23.12	1.313	82.9	0.710	3.353	17.2	199.9	---	5.735	-22.36	0.319	53.9	70.8	-16.5	0.296
4- 640	4-2240	0.432	229.6	32.2	14.29	1.313	83.4	0.711	3.368	15.9	200.4	---	5.762	-13.55	0.322	53.4	70.2	-9.7	0.279
4- 650	4-1010	0.783	178.2	2.4	0.98	1.428	57.2	1.01547	0.225	65.0	136.6	---	---	1.23	0.626	159.4	79.7	3.4	0.633
4- 650	4-1030	0.769	177.2	2.8	0.94	1.408	57.1	0.97628	0.955	66.6	139.7	---	---	1.22	0.581	158.0	79.5	3.5	0.589
4- 650	4-1050	0.758	176.3	3.1	0.91	1.391	57.1	0.94412	0.330	68.0	142.6	---	---	1.21	0.539	156.5	79.2	3.5	0.550
4- 650	4-1070	0.749	175.6	3.4	0.88	1.377	57.1	0.918	8.320	69.2	145.4	---	---	1.20	0.502	154.8	78.8	3.5	0.515
4- 650	4-1090	0.740	175.0	3.6	0.84	1.365	57.1	0.896	6.529	70.2	148.0	---	---	1.19	0.468	153.1	78.4	3.5	0.483
4- 650	4-1110	0.732	174.5	3.8	0.81	1.355	57.1	0.877	5.521	71.1	150.4	---	---	1.19	0.438	151.3	77.9	3.5	0.454
4- 650	4-1130	0.725	174.1	3.9	0.78	1.346	57.2	0.861	4.881	71.7	152.6	---	---	1.18	0.411	149.3	77.4	3.6	0.428
4- 650	4-1150	0.719	173.7	4.0	0.74	1.339	57.3	0.848	4.442	72.3	154.7	---	---	1.17	0.386	147.2	76.7	3.6	0.404
4- 650	4-1170	0.712	173.5	4.0	0.71	1.332	57.4	0.837	4.125	72.7	156.7	---	---	1.17	0.363	145.0	76.0	3.6	0.383
4- 650	4-1190	0.706	173.3	4.1	0.68	1.327	57.5	0.827	3.888	73.0	158.5	---	---	1.17	0.343	142.6	75.3	3.6	0.363
4- 650	4-1210	0.700	173.2	4.1	0.65	1.322	57.7	0.818	3.705	73.1	160.3	---	---	1.17	0.324	140.2	74.5	3.7	0.346
4- 650	4-1230	0.695	173.1	4.0	0.62	1.318	57.9	0.810	3.561	73.2	161.9	---	---	1.16	0.308	137.6	73.6	3.7	0.329
4- 650	4-1250	0.689	173.1	4.0	0.58	1.314	58.0	0.803	3.447	73.2	163.5	---	---	1.16	0.293	134.8	72.7	3.7	0.315
4- 650	4-1270	0.684	173.2	3.9	0.55	1.311	58.3	0.797	3.355	73.0	165.0	---	---	1.17	0.280	132.0	71.7	3.7	0.302
4- 650	4-1290	0.678	173.3	3.8	0.52	1.308	58.5	0.792	3.280	72.8	166.4	---	---	1.17	0.268	129.0	70.6	3.7	0.290
4- 650	4-1310	0.672	173.4	3.7	0.49	1.306	58.7	0.787	3.218	72.6	167.7	---	---	1.17	0.258	126.0	69.6	3.7	0.279
4- 650	4-1330	0.667	173.6	3.6	0.45	1.304	59.0	0.782	3.168	72.2	169.0	---	---	1.17	0.249	122.9	68.5	3.8	0.270
4- 650	4-1350	0.661	173.7	3.5	0.42	1.303	59.2	0.778	3.127	71.8	170.2	---	---	1.18	0.242	119.7	67.3	3.8	0.261

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 650	4-1370	0.655	174.0	3.3	0.39	1.301	59.5	0.775	3.093	71.4	171.3	---	---	1.18	0.235	116.5	66.2	3.8	0.254
4- 650	4-1390	0.650	174.2	3.2	0.35	1.300	59.8	0.771	3.065	70.9	172.4	---	---	1.19	0.230	113.3	65.0	3.8	0.247
4- 650	4-1410	0.644	174.5	3.0	0.32	1.299	60.1	0.768	3.042	70.3	173.5	---	---	1.20	0.226	110.2	63.9	3.8	0.241
4- 650	4-1430	0.638	174.8	2.8	0.28	1.299	60.4	0.765	3.024	69.7	174.5	---	---	1.20	0.223	107.0	62.8	3.8	0.236
4- 650	4-1450	0.632	175.2	2.6	0.25	1.298	60.8	0.762	3.010	69.1	175.5	---	---	1.21	0.220	103.9	61.7	3.8	0.232
4- 650	4-1470	0.626	175.5	2.4	0.21	1.297	61.1	0.760	2.999	68.4	176.5	---	---	1.22	0.219	100.9	60.6	3.8	0.228
4- 650	4-1490	0.620	175.9	2.1	0.17	1.297	61.4	0.757	2.991	67.7	177.4	---	---	1.24	0.218	98.0	59.6	3.8	0.225
4- 650	4-1510	0.613	176.3	1.9	0.14	1.297	61.8	0.755	2.985	67.0	178.3	---	---	1.25	0.218	95.2	58.6	3.8	0.223
4- 650	4-1530	0.607	176.8	1.6	0.10	1.297	62.2	0.753	2.982	66.2	179.2	---	---	1.26	0.218	92.6	57.7	3.8	0.221
4- 650	4-1550	0.601	177.2	1.3	0.06	1.297	62.5	0.750	2.980	65.4	180.0	---	---	1.28	0.219	90.0	56.9	3.8	0.219
4- 650	4-1570	0.594	177.7	1.0	0.02	1.297	62.9	0.749	2.980	64.6	180.8	---	5.211	1.30	0.220	87.6	56.1	3.9	0.218
4- 650	4-1590	0.588	178.2	0.7	-0.03	1.297	63.3	0.747	2.982	63.7	181.6	---	5.208	1.32	0.222	85.3	55.4	3.9	0.217
4- 650	4-1610	0.581	178.7	0.4	-0.07	1.297	63.7	0.745	2.985	62.8	182.4	---	5.208	1.34	0.224	83.1	54.8	3.9	0.217
4- 650	4-1630	0.574	179.2	0.1	-0.12	1.297	64.1	0.743	2.989	61.9	183.1	---	5.210	1.36	0.226	81.0	54.3	3.9	0.217
4- 650	4-1650	0.567	179.8	-0.3	-0.16	1.297	64.5	0.741	2.994	61.0	183.9	---	5.214	1.39	0.228	79.1	53.8	3.9	0.217
4- 650	4-1670	0.561	180.3	-0.6	-0.21	1.298	64.9	0.740	3.000	60.0	184.6	---	5.220	1.41	0.231	77.3	53.4	3.9	0.217
4- 650	4-1690	0.554	180.9	-1.0	-0.27	1.298	65.4	0.738	3.008	59.0	185.3	---	5.228	1.44	0.234	75.5	53.2	4.0	0.218
4- 650	4-1710	0.547	181.5	-1.4	-0.32	1.298	65.8	0.737	3.015	58.0	186.0	---	5.237	1.48	0.237	73.9	52.9	4.0	0.219
4- 650	4-1730	0.540	182.1	-1.8	-0.38	1.299	66.2	0.735	3.024	57.0	186.7	---	5.248	1.51	0.240	72.4	52.8	4.0	0.220
4- 650	4-1750	0.533	182.8	-2.3	-0.44	1.299	66.7	0.734	3.033	56.0	187.3	---	5.260	1.55	0.243	71.0	52.8	4.1	0.221
4- 650	4-1770	0.526	183.5	-2.7	-0.50	1.299	67.1	0.733	3.043	54.9	188.0	---	5.273	1.59	0.246	69.7	52.8	4.1	0.222
4- 650	4-1790	0.519	184.1	-3.2	-0.56	1.300	67.6	0.732	3.053	53.9	188.6	---	5.287	1.64	0.250	68.4	52.9	4.1	0.224
4- 650	4-1810	0.512	184.8	-3.7	-0.64	1.300	68.0	0.730	3.064	52.8	189.2	---	5.302	1.69	0.253	67.2	53.0	4.2	0.225
4- 650	4-1830	0.504	185.6	-4.3	-0.71	1.301	68.5	0.729	3.075	51.7	189.8	---	5.318	1.75	0.257	66.1	53.3	4.3	0.227
4- 650	4-1850	0.497	186.3	-4.8	-0.79	1.301	69.0	0.728	3.087	50.5	190.4	---	5.335	1.81	0.260	65.1	53.6	4.3	0.229
4- 650	4-1870	0.490	187.1	-5.4	-0.88	1.302	69.5	0.727	3.099	49.4	191.0	---	5.352	1.88	0.263	64.1	53.9	4.4	0.231
4- 650	4-1890	0.483	187.9	-6.1	-0.98	1.302	69.9	0.726	3.111	48.3	191.6	---	5.371	1.95	0.267	63.2	54.3	4.5	0.232
4- 650	4-1910	0.476	188.7	-6.8	-1.08	1.303	70.4	0.725	3.124	47.1	192.2	---	5.390	2.03	0.270	62.3	54.8	4.6	0.234
4- 650	4-1930	0.469	189.5	-7.5	-1.19	1.303	70.9	0.724	3.137	45.9	192.7	---	5.409	2.13	0.274	61.5	55.3	4.7	0.236
4- 650	4-1950	0.462	190.3	-8.3	-1.32	1.304	71.4	0.723	3.150	44.7	193.3	---	5.429	2.23	0.277	60.7	55.9	4.8	0.238
4- 650	4-1970	0.455	191.2	-9.1	-1.45	1.304	71.9	0.723	3.164	43.5	193.8	---	5.450	2.35	0.280	60.0	56.6	4.9	0.241
4- 650	4-1990	0.448	192.1	-10.0	-1.61	1.305	72.4	0.722	3.177	42.3	194.3	---	5.471	2.48	0.283	59.3	57.2	5.1	0.243
4- 650	4-2010	0.441	192.9	-11.0	-1.78	1.305	72.9	0.721	3.191	41.0	194.8	---	5.493	2.64	0.287	58.6	58.0	5.2	0.245
4- 650	4-2030	0.434	193.8	-12.1	-1.97	1.306	73.5	0.721	3.205	39.8	195.4	---	5.515	2.82	0.290	58.0	58.7	5.4	0.247
4- 650	4-2050	0.427	194.7	-13.3	-2.20	1.306	74.0	0.720	3.219	38.5	195.9	---	5.537	3.02	0.293	57.4	59.5	5.6	0.249
4- 650	4-2070	0.421	195.6	-14.6	-2.46	1.307	74.5	0.720	3.234	37.3	196.3	---	5.560	3.26	0.296	56.8	60.4	5.9	0.252
4- 650	4-2090	0.415	196.4	-16.1	-2.77	1.307	75.1	0.719	3.248	36.0	196.8	---	5.584	3.55	0.299	56.3	61.3	6.2	0.254
4- 650	4-2110	0.409	197.2	-17.9	-3.13	1.308	75.6	0.719	3.263	34.7	197.3	---	5.608	3.90	0.302	55.8	62.2	6.5	0.256
4- 650	4-2130	0.404	198.0	-19.9	-3.58	1.308	76.1	0.718	3.278	33.4	197.8	---	5.632	4.33	0.305	55.3	63.2	6.9	0.259
4- 650	4-2150	0.399	198.5	-22.3	-4.15	1.309	76.7	0.718	3.292	32.0	198.2	---	5.656	4.88	0.308	54.8	64.2	7.5	0.261
4- 650	4-2170	0.396	198.9	-25.2	-4.88	1.309	77.2	0.718	3.307	30.7	198.7	---	5.681	5.59	0.311	54.3	65.2	8.1	0.264
4- 650	4-2190	0.395	198.8	-28.8	-5.86	1.310	77.8	0.718	3.322	29.4	199.1	---	5.706	6.55	0.314	53.9	66.4	9.0	0.267
4- 650	4-2210	0.399	197.9	-33.6	-7.24	1.310	78.3	0.717	3.337	28.0	199.5	---	5.732	7.92	0.317	53.5	67.5	10.3	0.271
4- 650	4-2230	0.410	195.3	-40.1	-9.36	1.311	78.9	0.717	3.353	26.6	199.9	---	5.758	10.02	0.319	53.1	68.8	12.1	0.275
4- 650	4-2250	0.443	188.5	-49.1	-13.00	1.311	79.5	0.717	3.368	25.3	200.3	---	5.784	13.63	0.322	52.7	70.4	15.2	0.283
4- 660	4-1020	0.891	179.2	1.7	1.03	1.414	50.3	0.99387	2.102	79.7	142.0	---	---	1.41	0.600	160.4	78.1	3.5	0.621
4- 660	4-1040	0.876	178.5	2.0	0.99	1.396	50.4	0.96315	2.676	81.0	144.9	---	---	1.39	0.555	159.0	77.8	3.5	0.578
4- 660	4-1060	0.863	177.9	2.2	0.95	1.380	50.5	0.938	9.311	82.1	147.5	---	---	1.37	0.515	157.5	77.4	3.5	0.540
4- 660	4-1080	0.852	177.4	2.4	0.91	1.367	50.7	0.917	6.947	83.0	150.0	---	---	1.36	0.478	155.8	76.9	3.5	0.506
4- 660	4-1100	0.842	177.0	2.5	0.87	1.355	50.8	0.900	5.723	83.8	152.3	---	---	1.34	0.445	154.1	76.4	3.5	0.475
4- 660	4-1120	0.832	176.7	2.6	0.83	1.346	51.0	0.885	4.982	84.3	154.4	---	---	1.33	0.415	152.1	75.8	3.5	0.448
4- 660	4-1140	0.824	176.5	2.6	0.79	1.337	51.2	0.872	4.488	84.8	156.4	---	---	1.32	0.388	150.1	75.1	3.6	0.423
4- 660	4-1160	0.815	176.3	2.6	0.76	1.330	51.4	0.861	4.140	85.1	158.3	---	---	1.30	0.364	147.9	74.4	3.6	0.400
4- 660	4-1180	0.808	176.2	2.6	0.72	1.324	51.6	0.852	3.883	85.2	160.0	---	---	1.29	0.342	145.6	73.6	3.6	0.380
4- 660	4-1200	0.800	176.2	2.6	0.68	1.319	51.8	0.844	3.687	85.3	161.7	---	---	1.29	0.322	143.1	72.8	3.6	0.361
4- 660	4-1220	0.793	176.2	2.6	0.65	1.315	52.1	0.836	3.536	85.2	163.2	---	---	1.28	0.304	140.5	71.9	3.6	0.344
4- 660	4-1240	0.786	176.2	2.5	0.61	1.311	52.3	0.830	3.416	85.1	164.6	---	---	1.27	0.288	137.7	70.9	3.6	0.329
4- 660	4-1260	0.779	176.3	2.4	0.57	1.308	52.6	0.824	3.320	84.9	166.0	---	---	1.26	0.274	134.8	70.0	3.7	0.316
4- 660	4-1280	0.772	176.5	2.3	0.54	1.305	52.9	0.818	3.242	84.6	167.3	---	---	1.26	0.261	131.7	68.9	3.7	0.303
4- 660	4-1300	0.765	176.6	2.2	0.50	1.303	53.2	0.813	3.179	84.2	168.5	---	---	1.26	0.250	128.6	67.8	3.7	0.292
4- 660	4-1320	0.759	176.8	2.1	0.47	1.301	53.5	0.809	3.128	83.8	169.7	---	---	1.25	0.240	125.3	66.8	3.7	0.282
4- 660	4-1340	0.752	177.0	1.9	0.43	1.299	53.8	0.805	3.086	83.3	170.8	---	---	1.25	0.232	121.9	65.6	3.7	0.274
4- 660	4-1360	0.745	177.3	1.8	0.40	1.298	54.2	0.801	3.051	82.8	171.9	---	---	1.25	0.225	118.5	64.5	3.7	0.266
4- 660	4-1380	0.739	177.5	1.6	0.36	1.296	54.5	0.797	3.024	82.2	172.9	---	---	1.25	0.220	115.1	63.4	3.7	0.259
4- 660	4-1400	0.732	177.8	1.5	0.33	1.296	54.9	0.794	3.001	81.6	173.9	---	---	1.25	0.215	111.7	62.3	3.7	0.253
4- 660	4-1420	0.725	178.1	1.3	0.29	1.295	55.2	0.791	2.983	80.9	174.9	---	---	1.25	0.212	108.3	61.2	3.7	0.248
4- 660	4-1440	0.718	178.5	1.1	0.26	1.294	55.6	0.788	2.969	80.2	175.8	---	---	1.26	0.209	105.0	60.2	3.7	0.243
4- 660	4-1460	0.711	178.8	0.9	0.22	1.294	56.0	0.785	2.959	79.5	176.7	---	---	1.26	0.207	101.7	59.2	3.7	0.239
4- 660	4-1480	0.704	179.2	0.7	0.18	1.293	56.4	0.782	2.951	78.7	177.6	---	---	1.26	0.207	98.6	58.2	3.7	0.236
4- 660	4-1500	0.697	179.6	0.4	0.15	1.293	56.8	0.779	2.946	77.9	178.4	---	---	1.27	0.206	95.6	57.3	3.7	0.234
4- 660	4-1520	0.690	180.0	0.2	0.11	1.293	57.2	0.777	2.943	77.1	179.2	---	---	1.28	0.207	92.7	56.5	3.7	0.231
4- 660	4-1540	0.683	180.4	-0.1	0.07	1.293	57.6	0.774	2.942	76.2	180.0	---	5.220	1.29	0.208	89.9	55.7	3.7	0.230
4- 660	4-1560	0.676	180.9	-0.3	0.03	1.293	58.0	0.772	2.943	75.4	180.8	---	5.215	1.30	0.209	87.3	55.0	3.7	0.228
4- 660	4-1580	0.668	181.3	-0.6	-0.01	1.293	58.4	0.770	2.945	74.5	181.5	---	5.212	1.31	0.211	84.8	54.4	3.7	0.227
4- 660	4-1600	0.661	181.8	-0.9	-0.05	1.293	58.8	0.768	2.948	73.5	182.3	---	5.212	1.32	0.213	82.5	53.8	3.7	0.227
4- 660	4-1620	0.654	182.3	-1.2	-0.09	1.293	59.3	0.766	2.953	72.6	183.0	---	5.214	1.33	0.216	80.3	53.3	3.7	0.227
4- 660	4-1640	0.646	182.8	-1.5	-0.13	1.294	59.7	0.764	2.959	71.6	183.7	---	5.219	1.35	0.219	78.3	52.9	3.7	0.227
4- 660	4-1660	0.639	183.3	-1.8	-0.17	1.294	60.2	0.762	2.966	70.6	184.4	---	5.225	1.36	0.222	76.4	52.6	3.7	0.227
4- 660	4-1680	0.631	183.9	-2.1	-0.22	1.294	60.6	0.760	2.974	69.6	185.1	---	5.233	1.38	0.225	74.6	52.4	3.8	0.227
4- 660	4-1700	0.624	184.4	-2.4	-0.26	1.295	61.1	0.758	2.982	68.6	185.7	---	5.242	1.40	0.228	72.9	52.2	3.8	0.228

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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

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

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

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 670	4-2070	0.543	200.5	- .8	-1.34	1.301	66.2	0.748	3.200	56.5	195.7	---	5.594	1.98	0.291	54.2	60.5	4.4	0.266
4- 670	4-2090	0.535	201.3	-1. .4	-1.44	1.302	66.7	0.747	3.216	55.2	196.1	---	5.617	2.06	0.294	53.7	61.4	4.5	0.268
4- 670	4-2110	0.526	202.2	-13.1	-1.54	1.302	67.3	0.746	3.232	53.9	196.6	---	5.641	2.14	0.297	53.3	62.4	4.6	0.269
4- 670	4-2130	0.518	203.0	-13.8	-1.66	1.303	67.9	0.744	3.247	52.6	197.1	---	5.665	2.23	0.301	52.9	63.4	4.7	0.271
4- 670	4-2150	0.509	203.9	-14.5	-1.78	1.304	68.4	0.743	3.263	51.2	197.5	---	5.689	2.33	0.304	52.5	64.4	4.8	0.273
4- 670	4-2170	0.501	204.8	-15.3	-1.92	1.304	69.0	0.742	3.279	49.9	197.9	---	5.713	2.45	0.307	52.1	65.4	4.9	0.275
4- 670	4-2190	0.493	205.7	-16.2	-2.07	1.305	69.6	0.741	3.296	48.5	198.4	---	5.738	2.58	0.310	51.8	66.5	5.1	0.277
4- 670	4-2210	0.485	206.6	-17.1	-2.24	1.305	70.1	0.740	3.312	47.2	198.8	---	5.762	2.73	0.313	51.5	67.6	5.2	0.279
4- 670	4-2230	0.476	207.6	-18.1	-2.43	1.306	70.7	0.739	3.328	45.8	199.2	---	5.787	2.90	0.316	51.2	68.7	5.4	0.281
4- 670	4-2250	0.469	208.5	-19.2	-2.65	1.306	71.3	0.738	3.344	44.4	199.7	---	5.813	3.09	0.319	50.9	69.9	5.6	0.282
4- 670	4-2270	0.461	209.5	-20.4	-2.90	1.307	71.9	0.737	3.361	43.0	200.1	---	5.838	3.32	0.321	50.6	71.1	5.8	0.284
4- 680	4-1040	1.120	183.8	-0.6	1.28	1.390	36.2	0.97614.432		109.6	153.7	---	---	1.88	0.550	163.9	74.1	3.4	0.607
4- 680	4-1060	1.101	183.6	-0.6	1.21	1.373	36.6	0.960	8.625	110.1	155.7	---	---	1.82	0.506	162.5	73.6	3.4	0.567
4- 680	4-1080	1.083	183.4	-0.5	1.14	1.358	37.0	0.947	6.465	110.4	157.6	---	---	1.78	0.467	160.9	73.0	3.4	0.531
4- 680	4-1100	1.068	183.3	-0.5	1.08	1.347	37.5	0.935	5.348	110.6	159.3	---	---	1.74	0.431	159.3	72.3	3.5	0.500
4- 680	4-1120	1.053	183.3	-0.6	1.02	1.336	37.9	0.925	4.671	110.7	160.9	---	---	1.70	0.399	157.4	71.6	3.5	0.471
- 680	4-1140	1.040	183.3	-0.6	0.96	1.328	38.3	0.916	4.221	110.6	162.4	---	---	1.66	0.370	155.4	70.8	3.5	0.445
4- 680	4-1160	1.028	183.3	-0.7	0.90	1.321	38.8	0.908	3.905	110.4	163.8	---	---	1.62	0.343	153.2	70.0	3.5	0.422
4- 680	4-1180	1.016	183.4	-0.7	0.85	1.314	39.2	0.901	3.672	110.1	165.1	---	---	1.59	0.320	150.9	69.1	3.5	0.402
4- 680	4-1200	1.005	183.6	-0.8	0.79	1.309	39.6	0.895	3.496	109.8	166.3	---	---	1.56	0.298	148.3	68.2	3.5	0.383
4- 680	4-1220	0.995	183.7	-0.9	0.74	1.305	40.1	0.889	3.359	109.3	167.5	---	---	1.54	0.279	145.5	67.2	3.5	0.366
4- 680	4-1240	0.984	183.9	-1.0	0.69	1.301	40.5	0.883	3.252	108.8	168.5	---	---	1.51	0.261	142.6	66.3	3.5	0.351
4- 680	4-1260	0.974	184.1	-1.2	0.65	1.298	41.0	0.878	3.167	108.3	169.6	---	---	1.49	0.246	139.4	65.3	3.5	0.338
4- 680	4-1280	0.965	184.4	-1.3	0.60	1.295	41.4	0.873	3.099	107.7	170.6	---	---	1.46	0.232	135.9	64.2	3.5	0.326
4- 680	4-1300	0.955	184.6	-1.5	0.55	1.293	41.9	0.869	3.043	107.0	171.5	---	---	1.44	0.220	132.3	63.2	3.5	0.315
4- 680	4-1320	0.946	184.9	-1.6	0.51	1.291	42.4	0.865	2.999	106.3	172.4	---	---	1.43	0.210	128.6	62.1	3.5	0.305
4- 680	4-1340	0.937	185.2	-1.8	0.47	1.289	42.8	0.861	2.963	105.6	173.3	---	---	1.41	0.201	124.6	61.1	3.5	0.297
4- 680	4-1360	0.928	185.5	-1.9	0.43	1.288	43.3	0.857	2.934	104.8	174.1	---	---	1.39	0.194	120.6	60.1	3.5	0.290
4- 680	4-1380	0.919	185.8	-2.1	0.38	1.287	43.8	0.853	2.912	104.1	175.0	---	---	1.38	0.189	116.5	59.1	3.5	0.283
4- 680	4-1400	0.910	186.2	-2.3	0.34	1.286	44.3	0.849	2.894	103.2	175.7	---	---	1.37	0.184	112.4	58.1	3.4	0.277
4- 680	4-1420	0.902	186.5	-2.5	0.30	1.286	44.7	0.846	2.880	102.4	176.5	---	---	1.36	0.181	108.3	57.2	3.4	0.272
4- 680	4-1440	0.893	186.9	-2.7	0.26	1.285	45.2	0.843	2.870	101.5	177.3	---	---	1.34	0.179	104.3	56.3	3.4	0.268
4- 680	4-1460	0.884	187.3	-2.9	0.22	1.285	45.7	0.839	2.863	100.6	178.0	---	---	1.34	0.178	100.4	55.5	3.4	0.264
4- 680	4-1480	0.876	187.7	-3.1	0.19	1.285	46.2	0.836	2.858	99.7	178.7	---	---	1.33	0.178	96.6	54.7	3.4	0.261
4- 680	4-1500	0.867	188.1	-3.3	0.15	1.285	46.7	0.833	2.856	98.7	179.4	---	---	1.32	0.179	93.1	54.0	3.4	0.259
4- 680	4-1520	0.858	188.5	-3.5	0.11	1.285	47.2	0.830	2.856	97.8	180.1	---	5.227	1.32	0.180	89.7	53.4	3.4	0.256
4- 680	4-1540	0.849	188.9	-3.8	0.07	1.285	47.7	0.827	2.858	96.8	180.7	---	5.222	1.31	0.182	86.5	52.8	3.4	0.255
4- 680	4-1560	0.841	189.3	-4.0	0.03	1.285	48.2	0.824	2.861	95.8	181.4	---	5.220	1.31	0.185	83.6	52.3	3.4	0.253
4- 680	4-1580	0.832	189.8	-4.2	-0.01	1.285	48.7	0.821	2.866	94.8	182.0	---	5.220	1.31	0.188	80.8	51.8	3.4	0.252
4- 680	4-1600	0.823	190.2	-4.5	-0.04	1.285	49.2	0.819	2.872	93.7	182.6	---	5.223	1.30	0.191	78.3	51.5	3.4	0.252
4- 680	4-1620	0.815	190.7	-4.7	-0.08	1.286	49.7	0.816	2.879	92.7	183.3	---	5.228	1.30	0.195	76.0	51.2	3.4	0.251
4- 680	4-1640	0.806	191.2	-5.0	-0.12	1.286	50.2	0.813	2.887	91.6	183.9	---	5.235	1.30	0.199	73.8	51.0	3.4	0.251
4- 680	4-1660	0.797	191.7	-5.2	-0.16	1.286	50.8	0.811	2.896	90.5	184.5	---	5.243	1.31	0.203	71.8	50.9	3.4	0.251
4- 680	4-1680	0.788	192.2	-5.5	-0.20	1.287	51.3	0.808	2.905	89.4	185.0	---	5.253	1.31	0.207	70.0	50.8	3.4	0.252
4- 680	4-1700	0.779	192.7	-5.8	-0.23	1.287	51.8	0.806	2.916	88.3	185.6	---	5.265	1.31	0.211	68.3	50.8	3.4	0.252
4- 680	4-1720	0.771	193.2	-6.0	-0.27	1.288	52.3	0.803	2.927	87.2	186.2	---	5.277	1.32	0.215	66.7	50.8	3.4	0.253
4- 680	4-1740	0.762	193.7	-6.3	-0.31	1.288	52.9	0.801	2.938	86.1	186.8	---	5.291	1.33	0.220	65.3	51.0	3.4	0.253
4- 680	4-1760	0.753	194.2	-6.6	-0.35	1.289	53.4	0.798	2.951	84.9	187.3	---	5.306	1.33	0.224	64.0	51.2	3.4	0.254
4- 680	4-1780	0.744	194.8	-6.9	-0.39	1.289	53.9	0.796	2.963	83.8	187.9	---	5.322	1.34	0.228	62.7	51.4	3.5	0.255
4- 680	4-1800	0.735	195.3	-7.2	-0.44	1.290	54.5	0.794	2.976	82.6	188.4	---	5.338	1.35	0.233	61.6	51.7	3.5	0.256
4- 680	4-1820	0.726	195.9	-7.5	-0.48	1.291	55.0	0.791	2.990	81.5	188.9	---	5.355	1.37	0.237	60.6	52.1	3.5	0.257
4- 680	4-1840	0.717	196.5	-7.9	-0.52	1.291	55.5	0.789	3.003	80.3	189.5	---	5.373	1.38	0.241	59.6	52.5	3.5	0.259
4- 680	4-1860	0.708	197.1	-8.2	-0.57	1.292	56.1	0.787	3.017	79.1	190.0	---	5.392	1.40	0.246	58.7	53.0	3.6	0.260
4- 680	4-1880	0.699	197.7	-8.5	-0.61	1.292	56.6	0.785	3.032	77.9	190.5	---	5.411	1.41	0.250	57.9	53.5	3.6	0.261
4- 680	4-1900	0.690	198.3	-8.9	-0.66	1.293	57.2	0.783	3.046	76.7	191.0	---	5.431	1.43	0.254	57.1	54.1	3.6	0.262
4- 680	4-1920	0.681	198.9	-9.2	-0.71	1.294	57.7	0.781	3.061	75.4	191.5	---	5.451	1.45	0.258	56.4	54.7	3.7	0.264
4- 680	4-1940	0.671	199.6	-9.6	-0.76	1.294	58.3	0.778	3.077	74.2	192.0	---	5.472	1.47	0.262	55.7	55.4	3.7	0.265
4- 680	4-1960	0.662	200.2	-10.0	-0.81	1.295	58.8	0.776	3.092	72.9	192.5	---	5.493	1.50	0.266	55.1	56.1	3.8	0.267
4- 680	4-1980	0.653	200.9	-10.4	-0.86	1.296	59.4	0.775	3.107	71.7	193.0	---	5.514	1.53	0.270	54.5	56.8	3.8	0.268
4- 680	4-2000	0.644	201.6	-10.8	-0.92	1.296	60.0	0.773	3.123	70.4	193.5	---	5.536	1.56	0.274	54.0	57.6	3.9	0.270
4- 680	4-2020	0.635	202.3	-11.2	-0.98	1.297	60.5	0.771	3.139	69.1	194.0	---	5.558	1.59	0.278	53.5	58.4	3.9	0.271
4- 680	4-2040	0.626	203.0	-11.6	-1.04	1.297	61.1	0.769	3.155	67.9	194.5	---	5.581	1.62	0.282	53.0	59.3	4.0	0.273
4- 680	4-2060	0.616	203.7	-12.1	-1.10	1.298	61.7	0.767	3.171	66.6	195.0	---	5.604	1.66	0.285	52.6	60.2	4.0	0.274
4- 680	4-2080	0.607	204.5	-12.6	-1.17	1.299	62.2	0.765	3.187	65.3	195.4	---	5.627	1.71	0.289	52.2	61.1	4.1	0.276
4- 680	4-2100	0.598	205.2	-13.0	-1.24	1.299	62.8	0.764	3.204	63.9	195.9	---	5.650	1.75	0.292	51.8	62.1	4.2	0.278
4- 680	4-2120	0.589	206.0	-13.5	-1.31	1.300	63.4	0.762	3.220	62.6	196.3	---	5.674	1.80	0.296	51.4	63.1	4.2	0.279
4- 680	4-2140	0.580	206.8	-14.1	-1.39	1.300	64.0	0.760	3.237	61.3	196.8	---	5.698	1.86	0.299	51.1	64.1	4.3	0.281
4- 680	4-2160	0.571	207.6	-14.6	-1.48	1.301	64.5	0.759	3.253	60.0	197.2	---	5.722	1.92	0.302	50.8	65.1	4.4	0.282
4- 680	4-2180	0.562	208.5	-15.2	-1.57	1.302	65.1	0.757	3.270	58.6	197.7	---	5.746	1.99	0.306	50.5	66.2	4.5	0.284
4- 680	4-2200	0.552	209.3	-15.8	-1.67	1.302	65.7	0.756	3.287	57.2	198.1	---	5.771	2.07	0.309	50.2	67.3	4.5	0.286
4- 680	4-2220	0.543	210.2	-16.5	-1.78	1.303	66.3	0.754	3.303	55.9	198.5	---	5.795	2.15	0.312	49.9	68.4	4.6	0.287
4- 680	4-2240	0.534	211.1	-17.2	-1.89	1.303	66.9	0.753	3.320	54.5	198.9	---	5.820	2.24	0.315	49.6	69.5	4.7	0.289
4- 680	4-2260	0.526	212.0	-17.9	-2.02	1.304	67.5	0.752	3.337	53.1	199.4	---	5.845	2.35	0.318	49.4	70.7	4.8	0.291
4- 680	4-2280	0.517	213.0	-18.7	-2.16	1.305	68.1	0.750	3.354	51.7	199.8	---	5.871	2.46	0.321	49.2	71.9	5.0	0.292
4- 690	4-1050	1.236	187.1	-2.2	1.53	1.379	28.9	0.97910.777		124.5	159.5	---	---	2.22	0.528	166.4	71.9	3.4	0.607
4- 690	4-1070	1.214	187.0	-2.2	1.43	1.363	29.5	0.968	7.278	124.5	161.0	---	---	2.14	0.485	165.0	71.2	3.4	0.568
4- 690	4-1090	1.194	187.0	-2.2	1.33	1.349	30.1	0.959	5.735	124.3	162.4	---	---	2.06	0.445	163.5	70.6	3.4	0.534
4- 690	4-1110	1.177	187.1	-2.3	1.25	1.338	30.7	0.951	4.875	124.0	163.7	---	---	1.99	0.410	161.8	69.8	3.4	0.503
4- 690	4-1130	1.160	187.1	-2.3	1.16	1.328	31.3	0.943	4.332	123.7	164.9	---	---	1.93	0.378	160.0	69.0	3.4	0.475
4- 690	4-1150	1.145	187.3	-2.4	1.09	1.320	31.8	0.936	3.962	123.3	166.1	---	---	1.87	0.348	158.0	68.2	3.4	0.450

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 900	4-1320	0.857	215.1	-15.2	-0.86	1.426	127.1	1.00968	6.466	286.2	498.9	0.631	---	1.94	0.626	160.2	103.1	3.6	0.646
4- 900	4-1340	0.826	214.7	-15.0	-0.77	1.408	126.1	0.97626	6.961	286.8	501.1	0.642	---	1.86	0.584	158.6	103.2	3.6	0.604
4- 900	4-1360	0.799	214.5	-14.8	-0.68	1.392	125.2	0.94712	7.339	287.4	503.3	0.652	---	1.79	0.545	157.0	103.3	3.7	0.566
4- 900	4-1380	0.775	214.2	-14.6	-0.59	1.379	124.4	0.922	8.436	287.9	505.5	0.661	---	1.73	0.510	155.3	103.3	3.7	0.530
4- 900	4-1400	0.754	213.9	-14.4	-0.52	1.367	123.6	0.899	6.637	288.4	507.6	0.669	---	1.66	0.478	153.4	103.2	3.7	0.499
4- 900	4-1420	0.736	213.7	-14.3	-0.45	1.357	123.0	0.879	5.609	288.8	509.6	0.676	---	1.61	0.449	151.5	103.0	3.7	0.469
4- 900	4-1440	0.720	213.6	-14.1	-0.38	1.348	122.4	0.862	4.948	289.2	511.6	0.682	---	1.56	0.422	149.5	102.7	3.7	0.443
4- 900	4-1460	0.706	213.4	-14.0	-0.31	1.340	121.9	0.847	4.491	289.5	513.5	0.688	---	1.51	0.398	147.3	102.4	3.8	0.418
4- 900	4-1480	0.695	213.3	-13.8	-0.25	1.334	121.5	0.834	4.158	289.7	515.4	0.692	---	1.47	0.376	145.1	101.9	3.8	0.396
4- 900	4-1500	0.685	213.2	-13.7	-0.20	1.328	121.1	0.822	3.907	289.9	517.2	0.696	---	1.43	0.355	142.7	101.4	3.8	0.375
4- 900	4-1520	0.676	213.2	-13.6	-0.14	1.323	120.8	0.812	3.712	290.0	519.0	0.699	---	1.39	0.336	140.2	100.7	3.9	0.356
4- 900	4-1540	0.669	213.2	-13.5	-0.09	1.318	120.6	0.803	3.558	290.1	520.7	0.701	---	1.36	0.320	137.6	99.9	3.9	0.339
4- 900	4-1560	0.663	213.2	-13.4	-0.04	1.315	120.4	0.795	3.434	290.1	522.4	0.702	---	1.33	0.304	134.9	99.0	3.9	0.324
4- 900	4-1580	0.659	213.3	-13.4	0.01	1.311	120.3	0.789	3.333	290.0	524.0	0.703	---	1.30	0.290	132.0	98.0	3.9	0.310
4- 900	4-1600	0.655	213.4	-13.3	0.05	1.308	120.2	0.784	3.250	289.9	525.5	0.704	---	1.28	0.278	129.1	96.9	4.0	0.297
4- 900	4-1620	0.653	213.5	-13.3	0.10	1.306	120.1	0.779	3.182	289.8	527.0	0.703	---	1.25	0.266	126.0	95.8	4.0	0.286
4- 900	4-1640	0.651	213.7	-13.3	0.14	1.304	120.1	0.775	3.125	289.5	528.4	0.702	---	1.23	0.256	122.9	94.5	4.0	0.276
4- 900	4-1660	0.651	213.9	-13.3	0.18	1.302	120.2	0.772	3.077	289.2	529.8	0.701	---	1.21	0.248	119.6	93.2	4.0	0.267
4- 900	4-1680	0.651	214.1	-13.3	0.22	1.300	120.2	0.770	3.037	288.9	531.1	0.699	---	1.19	0.240	116.3	91.8	4.1	0.259
4- 900	4-1700	0.652	214.4	-13.3	0.26	1.299	120.4	0.768	3.004	288.5	532.4	0.697	---	1.17	0.234	113.0	90.3	4.1	0.253
4- 900	4-1720	0.654	214.7	-13.3	0.30	1.297	120.5	0.767	2.976	288.0	533.7	0.694	---	1.15	0.228	109.6	88.8	4.1	0.247
4- 900	4-1740	0.657	215.0	-13.4	0.33	1.296	120.7	0.766	2.953	287.5	534.8	0.690	---	1.14	0.223	106.2	87.4	4.1	0.243
4- 900	4-1760	0.660	215.3	-13.4	0.37	1.296	120.9	0.766	2.934	286.9	536.0	0.686	---	1.13	0.220	102.9	85.9	4.1	0.240
4- 900	4-1780	0.664	215.7	-13.5	0.41	1.295	121.2	0.766	2.918	286.3	537.1	0.682	---	1.11	0.217	99.5	84.5	4.1	0.237
4- 900	4-1800	0.668	216.1	-13.6	0.44	1.294	121.5	0.767	2.906	285.7	538.1	0.677	---	1.10	0.215	96.2	83.1	4.0	0.235
4- 900	4-1820	0.674	216.5	-13.7	0.47	1.294	121.8	0.768	2.896	285.0	539.1	0.671	---	1.09	0.213	93.0	81.8	4.0	0.234
4- 900	4-1840	0.679	217.0	-13.8	0.51	1.294	122.1	0.770	2.889	284.2	540.1	0.665	5.112	1.08	0.212	89.8	80.6	4.0	0.234
4- 900	4-1860	0.686	217.4	-13.9	0.54	1.293	122.5	0.771	2.883	283.4	541.0	0.659	5.107	1.08	0.212	86.7	79.4	4.0	0.235
4- 900	4-1880	0.693	217.9	-14.0	0.57	1.293	122.9	0.774	2.880	282.5	541.8	0.652	5.107	1.07	0.212	83.7	78.4	4.0	0.236
4- 900	4-1900	0.700	218.4	-14.1	0.61	1.293	123.3	0.776	2.878	281.6	542.7	0.645	5.111	1.06	0.213	80.8	77.5	3.9	0.238
4- 900	4-1920	0.708	219.0	-14.2	0.64	1.293	123.8	0.779	2.877	280.7	543.5	0.637	5.117	1.06	0.214	78.1	76.7	3.9	0.240
4- 900	4-1940	0.716	219.5	-14.4	0.67	1.293	124.2	0.781	2.878	279.7	544.2	0.629	5.127	1.06	0.215	75.4	76.1	3.9	0.243
4- 900	4-1960	0.725	220.1	-14.5	0.70	1.293	124.7	0.785	2.880	278.7	544.9	0.621	5.140	1.05	0.217	72.8	75.6	3.9	0.246
4- 900	4-1980	0.735	220.6	-14.7	0.74	1.293	125.3	0.788	2.884	277.6	545.6	0.612	5.155	1.05	0.219	70.4	75.1	3.8	0.250
4- 900	4-2000	0.744	221.2	-14.8	0.77	1.293	125.8	0.791	2.888	276.5	546.3	0.602	5.173	1.05	0.221	68.0	74.9	3.8	0.254
4- 900	4-2020	0.755	221.9	-15.0	0.80	1.294	126.4	0.795	2.893	275.3	546.9	0.592	5.193	1.05	0.224	65.7	74.7	3.8	0.258
4- 900	4-2040	0.765	222.5	-15.1	0.83	1.294	127.0	0.799	2.899	274.1	547.4	0.582	5.215	1.05	0.226	63.6	74.6	3.8	0.262
4- 900	4-2060	0.777	223.1	-15.3	0.87	1.294	127.6	0.803	2.905	272.9	548.0	0.572	5.239	1.06	0.229	61.5	74.7	3.8	0.267
4- 900	4-2080	0.788	223.8	-15.5	0.90	1.295	128.3	0.808	2.913	271.6	548.5	0.561	5.265	1.06	0.232	59.5	74.9	3.7	0.272
4- 900	4-2100	0.800	224.4	-15.7	0.93	1.295	129.0	0.812	2.921	270.3	548.9	0.549	5.292	1.06	0.235	57.5	75.2	3.7	0.278
4- 900	4-2120	0.813	225.1	-15.8	0.97	1.295	129.6	0.817	2.929	269.0	549.3	0.537	5.321	1.07	0.238	55.7	75.5	3.7	0.283
4- 900	4-2140	0.826	225.8	-16.0	1.00	1.296	130.4	0.821	2.938	267.6	549.7	0.525	5.352	1.08	0.241	53.9	76.0	3.7	0.289
4- 900	4-2160	0.839	226.5	-16.2	1.03	1.296	131.1	0.826	2.948	266.2	550.1	0.512	5.383	1.08	0.244	52.2	76.6	3.7	0.294
4- 900	4-2180	0.853	227.2	-16.4	1.07	1.297	131.9	0.831	2.958	264.7	550.4	0.499	5.416	1.09	0.247	50.5	77.2	3.7	0.300
4- 900	4-2200	0.867	228.0	-16.6	1.11	1.297	132.7	0.836	2.968	263.2	550.7	0.486	5.451	1.10	0.251	48.9	77.9	3.7	0.306
4- 900	4-2220	0.882	228.7	-16.8	1.14	1.298	133.5	0.841	2.979	261.7	551.0	0.472	5.486	1.11	0.254	47.3	78.7	3.7	0.313
4- 900	4-2240	0.897	229.5	-17.0	1.18	1.298	134.3	0.847	2.991	260.1	551.2	0.458	5.523	1.13	0.257	45.8	79.6	3.7	0.319
4- 900	4-2260	0.912	230.2	-17.2	1.22	1.299	135.2	0.852	3.002	258.5	551.4	0.444	5.561	1.14	0.260	44.3	80.5	3.7	0.325
4- 900	4-2280	0.928	231.0	-17.4	1.26	1.299	136.0	0.858	3.014	256.9	551.6	0.429	5.599	1.16	0.263	42.9	81.5	3.7	0.332
4- 900	4-2300	0.944	231.8	-17.6	1.30	1.300	136.9	0.863	3.027	255.2	551.7	0.414	5.639	1.18	0.266	41.5	82.6	3.7	0.338
4- 900	4-2320	0.961	232.6	-17.7	1.34	1.300	137.9	0.869	3.039	253.5	551.8	0.399	5.679	1.20	0.269	40.1	83.7	3.6	0.345
4- 900	4-2340	0.977	233.4	-17.9	1.38	1.301	138.8	0.874	3.052	251.8	551.9	0.384	5.720	1.22	0.273	38.7	84.9	3.6	0.352
4- 900	4-2360	0.995	234.2	-18.1	1.43	1.301	139.8	0.880	3.065	250.0	552.0	0.368	5.762	1.24	0.276	37.4	86.1	3.6	0.359
4- 900	4-2380	1.012	235.0	-18.3	1.48	1.302	140.8	0.886	3.079	248.2	552.0	0.352	5.805	1.27	0.279	36.1	87.4	3.6	0.366
4- 900	4-2400	1.030	235.8	-18.5	1.53	1.302	141.8	0.891	3.093	246.3	552.0	0.336	5.849	1.29	0.282	34.8	88.7	3.6	0.373
4- 900	4-2420	1.049	236.7	-18.7	1.58	1.303	142.8	0.897	3.106	244.5	551.9	0.320	5.893	1.32	0.285	33.5	90.1	3.6	0.380
4- 900	4-2440	1.067	237.5	-18.9	1.63	1.303	143.9	0.903	3.121	242.6	551.8	0.304	5.937	1.36	0.287	32.2	91.5	3.6	0.387
4- 900	4-2460	1.086	238.4	-19.1	1.69	1.304	145.0	0.908	3.135	240.6	551.7	0.288	5.982	1.40	0.290	31.0	93.0	3.6	0.394
4- 900	4-2480	1.105	239.3	-19.3	1.75	1.305	146.1	0.914	3.150	238.7	551.6	0.272	6.028	1.44	0.293	29.8	94.5	3.6	0.401
4- 900	4-2500	1.125	240.1	-19.4	1.82	1.305	147.2	0.919	3.165	236.7	551.4	0.256	6.074	1.48	0.296	28.5	96.0	3.6	0.408
4- 910	4-1330	0.801	220.6	-17.5	-1.13	1.430	123.6	1.01447	7.798	293.2	496.7	0.687	---	2.26	0.631	159.4	104.7	3.7	0.645
4- 910	4-1350	0.770	220.2	-17.2	-0.98	1.412	122.6	0.97832	2.331	294.0	499.0	0.698	---	2.12	0.589	157.8	104.9	3.7	0.603
4- 910	4-1370	0.743	219.9	-17.0	-0.85	1.396	121.7	0.94713	3.329	294.6	501.3	0.708	---	2.00	0.551	156.2	105.0	3.8	0.564
4- 910	4-1390	0.719	219.5	-16.7	-0.73	1.382	120.9	0.919	8.876	295.2	503.5	0.717	---	1.90	0.516	154.5	105.0	3.8	0.529
4- 910	4-1410	0.698	219.2	-16.4	-0.62	1.371	120.1	0.895	6.900	295.8	505.7	0.724	---	1.81	0.485	152.7	105.0	3.8	0.497
4- 910	4-1430	0.680	219.0	-16.2	-0.52	1.361	119.5	0.874	5.791	296.3	507.8	0.731	---	1.72	0.456	150.8	104.9	3.8	0.468
4- 910	4-1450	0.664	218.8	-16.0	-0.43	1.352	118.9	0.855	5.086	296.7	509.9	0.737	---	1.65	0.429	148.7	104.7	3.8	0.441
4- 910	4-1470	0.650	218.6	-15.8	-0.35	1.344	118.4	0.839	4.601	297.1	511.9	0.743	---	1.58	0.405	146.6	104.3	3.8	0.417
4- 910	4-1490	0.638	218.4	-15.6	-0.27	1.337	117.9	0.824	4.251	297.4	513.8	0.747	---	1.52	0.383	144.4	103.9	3.8	0.394
4- 910	4-1510	0.627	218.3	-15.5	-0.20	1.332	117.6	0.812	3.987	297.7	515.7	0.751	---	1.46	0.363	142.1	103.4	3.9	0.373
4- 910	4-1530	0.619	218.2	-15.3	-0.14	1.326	117.3	0.801	3.783	297.9	517.6	0.754	---	1.41	0.344	139.6	102.8	3.9	0.355
4- 910	4-1550	0.611	218.2	-15.2	-0.08	1.322	117.0	0.791	3.621	298.0	519.3	0.757	---	1.36	0.327	137.0	102.1	3.9	0.337
4- 910	4-1570	0.605	218.2	-15.1	-0.02	1.318	116.8	0.783	3.492	298.0	521.1	0.758	---	1.32	0.312	134.4	101.3	3.9	0.321
4- 910	4-1590	0.600	218.2	-15.0	0.03	1.315	116.6	0.776	3.386	298.1	522.7	0.760	---	1.28	0.299	131.6	100.4	3.9	0.307
4- 910	4-1610	0.596	218.3	-14.9	0.09	1.312	116.5	0.770	3.300	298.0	524.3	0.760	---	1.24	0.286	128.8	99.4	4.0	0.294
4- 910	4-1630	0.594	218.4	-14.8	0.13	1.309	116.5	0.764	3.228	297.9	525.9	0.760	---	1.21	0.275	125.8	98.2	4.0	0.283
4- 910	4-1650	0.592	218.6	-14.8	0.18	1.307	116.4	0.760	3.168	297.7	527.4	0.760	---	1.18	0.265	122.8	97.0	4.0	0.272
4- 910	4-1670	0.591	218.8	-14.7	0.23	1.305	116.5	0.757	3.118	297.5	528.8	0.759	---	1.15	0.257	119.7	95.7	4.0	0.263
4- 910	4-1690	0.591	219.0	-14.7	0.27	1.303	116.5	0.754	3.077	297.2	530.2	0.757	---	1.13	0.249	116.5	94.4	4.0	0.255
4- 910	4-1710	0.591	219.3	-14.7	0.31	1.302	116.6	0.752	3.042	296.8	531.5	0.755	---	1.10	0.243	113.3	93.0	4.1	0.248

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 910	4-173C	0.592	219.6	-14.7	0.35	1.301	116.7	0.750	3.012	296.4	532.8	0.753	---	1.08	0.237	110.1	91.5	4.1	0.242
4- 910	4-175C	0.595	219.9	-14.8	0.38	1.300	116.9	0.749	2.988	296.0	534.1	0.750	---	1.06	0.233	106.9	90.1	4.1	0.237
4- 910	4-177C	0.597	220.2	-14.8	0.42	1.299	117.1	0.748	2.968	295.4	535.3	0.747	---	1.04	0.229	103.7	88.6	4.1	0.234
4- 910	4-179C	0.601	220.6	-14.8	0.46	1.298	117.3	0.748	2.951	294.9	536.4	0.743	---	1.02	0.226	100.5	87.1	4.1	0.230
4- 910	4-181C	0.604	221.0	-14.9	0.49	1.298	117.6	0.748	2.938	294.3	537.5	0.739	---	1.01	0.224	97.4	85.7	4.0	0.228
4- 910	4-183C	0.609	221.5	-15.0	0.52	1.297	117.8	0.749	2.927	293.6	538.5	0.734	---	0.99	0.222	94.4	84.4	4.0	0.227
4- 910	4-185C	0.614	221.9	-15.1	0.56	1.297	118.1	0.750	2.919	292.9	539.5	0.729	---	0.98	0.221	91.4	83.1	4.0	0.226
4- 910	4-187C	0.620	222.4	-15.2	0.59	1.296	118.5	0.751	2.913	292.1	540.5	0.724	5.102	0.97	0.221	88.5	81.9	4.0	0.226
4- 910	4-189C	0.626	222.9	-15.3	0.62	1.296	118.8	0.753	2.909	291.3	541.4	0.718	5.100	0.96	0.221	85.6	80.8	4.0	0.227
4- 910	4-191C	0.632	223.5	-15.4	0.65	1.296	119.2	0.755	2.906	290.5	542.3	0.712	5.101	0.95	0.221	82.9	79.9	3.9	0.228
4- 910	4-193C	0.640	224.0	-15.5	0.68	1.296	119.6	0.757	2.905	289.6	543.2	0.705	5.106	0.94	0.222	80.3	79.0	3.9	0.230
4- 910	4-195C	0.647	224.6	-15.6	0.71	1.296	120.1	0.760	2.906	288.6	544.0	0.698	5.113	0.93	0.223	77.7	78.3	3.9	0.232
4- 910	4-197C	0.655	225.2	-15.8	0.74	1.296	120.5	0.763	2.907	287.7	544.7	0.690	5.124	0.92	0.225	75.3	77.6	3.9	0.235
4- 910	4-199C	0.664	225.8	-15.9	0.77	1.296	121.0	0.765	2.910	286.7	545.5	0.683	5.137	0.92	0.227	73.0	77.1	3.8	0.238
4- 910	4-201C	0.673	226.4	-16.1	0.80	1.296	121.5	0.769	2.914	285.6	546.2	0.674	5.153	0.91	0.229	70.7	76.8	3.8	0.242
4- 910	4-203C	0.682	227.0	-16.2	0.82	1.297	122.1	0.772	2.918	284.5	546.8	0.665	5.171	0.91	0.231	68.5	76.5	3.8	0.246
4- 910	4-205C	0.692	227.7	-16.4	0.85	1.297	122.6	0.776	2.924	283.4	547.5	0.656	5.191	0.91	0.233	66.5	76.4	3.8	0.250
4- 910	4-207C	0.702	228.4	-16.5	0.88	1.297	123.2	0.779	2.930	282.2	548.0	0.647	5.213	0.90	0.236	64.5	76.3	3.7	0.254
4- 910	4-209C	0.713	229.0	-16.7	0.91	1.297	123.8	0.783	2.937	281.0	548.6	0.637	5.237	0.90	0.239	62.6	76.4	3.7	0.259
4- 910	4-211C	0.724	229.7	-16.9	0.94	1.298	124.4	0.787	2.944	279.7	549.1	0.626	5.263	0.90	0.241	60.7	76.6	3.7	0.263
4- 910	4-213C	0.736	230.5	-17.1	0.96	1.298	125.1	0.792	2.953	278.4	549.6	0.616	5.290	0.90	0.244	59.0	76.9	3.7	0.268
4- 910	4-215C	0.748	231.2	-17.2	0.99	1.299	125.7	0.796	2.961	277.1	550.1	0.604	5.318	0.90	0.247	57.2	77.3	3.7	0.274
4- 910	4-217C	0.760	231.9	-17.4	1.02	1.299	126.4	0.800	2.970	275.7	550.5	0.593	5.348	0.90	0.250	55.6	77.8	3.7	0.279
4- 910	4-219C	0.773	232.6	-17.6	1.05	1.299	127.1	0.805	2.980	274.3	550.9	0.581	5.379	0.91	0.253	54.0	78.3	3.7	0.285
4- 910	4-221C	0.786	233.4	-17.7	1.08	1.300	127.8	0.810	2.990	272.9	551.3	0.568	5.412	0.91	0.256	52.5	79.0	3.6	0.290
4- 910	4-223C	0.799	234.2	-17.9	1.11	1.300	128.6	0.815	3.001	271.4	551.6	0.556	5.446	0.91	0.259	51.0	79.7	3.6	0.296
4- 910	4-225C	0.813	234.9	-18.1	1.14	1.301	129.4	0.820	3.012	269.9	551.9	0.543	5.481	0.92	0.262	49.5	80.5	3.6	0.302
4- 910	4-227C	0.828	235.7	-18.3	1.17	1.301	130.2	0.825	3.023	268.4	552.2	0.529	5.517	0.93	0.265	48.1	81.3	3.6	0.308
4- 910	4-229C	0.842	236.5	-18.5	1.20	1.302	131.0	0.830	3.035	266.8	552.4	0.515	5.554	0.93	0.268	46.7	82.3	3.6	0.314
4- 910	4-231C	0.857	237.3	-18.6	1.23	1.302	131.8	0.836	3.046	265.2	552.6	0.501	5.592	0.94	0.271	45.3	83.3	3.6	0.320
4- 910	4-233C	0.873	238.1	-18.8	1.26	1.303	132.7	0.841	3.059	263.6	552.8	0.487	5.631	0.95	0.274	44.0	84.3	3.6	0.326
4- 910	4-235C	0.889	239.0	-19.0	1.29	1.303	133.6	0.846	3.071	262.0	552.9	0.472	5.671	0.96	0.276	42.7	85.4	3.6	0.333
4- 910	4-237C	0.905	239.8	-19.2	1.32	1.304	134.5	0.852	3.084	260.3	553.1	0.457	5.711	0.98	0.279	41.5	86.6	3.6	0.339
4- 910	4-239C	0.922	240.6	-19.3	1.36	1.304	135.4	0.858	3.097	258.5	553.2	0.441	5.753	0.99	0.282	40.2	87.8	3.6	0.346
4- 910	4-241C	0.938	241.5	-19.5	1.39	1.305	136.3	0.863	3.110	256.8	553.2	0.426	5.795	1.01	0.285	39.0	89.1	3.6	0.352
4- 910	4-243C	0.956	242.3	-19.7	1.43	1.305	137.3	0.869	3.124	255.0	553.2	0.410	5.838	1.02	0.288	37.8	90.4	3.6	0.359
4- 910	4-245C	0.973	243.2	-19.8	1.47	1.306	138.3	0.875	3.138	253.2	553.3	0.394	5.882	1.04	0.291	36.6	91.7	3.6	0.365
4- 910	4-247C	0.991	244.1	-20.0	1.51	1.306	139.3	0.880	3.152	251.3	553.2	0.377	5.926	1.06	0.293	35.4	93.1	3.5	0.372
4- 910	4-249C	1.010	244.9	-20.1	1.55	1.307	140.3	0.886	3.166	249.4	553.2	0.361	5.971	1.08	0.296	34.2	94.5	3.5	0.379
4- 910	4-251C	1.028	245.8	-20.3	1.59	1.307	141.4	0.892	3.180	247.5	553.1	0.344	6.016	1.11	0.299	33.0	96.0	3.5	0.386
4- 920	4-134C	0.743	225.5	-20.3	-1.77	1.433	120.0	1.01	939.988	300.6	494.7	0.742	---	2.94	0.635	158.6	106.3	4.0	0.643
4- 920	4-136C	0.713	225.1	-19.7	-1.46	1.415	119.0	0.98	037.339	301.4	497.1	0.752	---	2.65	0.593	157.1	106.5	4.0	0.601
4- 920	4-138C	0.686	224.7	-19.2	-1.21	1.399	118.1	0.94	614.114	302.1	499.5	0.762	---	2.41	0.555	155.4	106.6	3.9	0.562
4- 920	4-140C	0.662	224.3	-18.8	-1.00	1.385	117.3	0.916	9.219	302.8	501.8	0.770	---	2.21	0.521	153.7	106.7	3.9	0.527
4- 920	4-142C	0.641	224.0	-18.4	-0.83	1.374	116.5	0.891	7.105	303.4	504.0	0.778	---	2.05	0.489	151.9	106.7	3.9	0.495
4- 920	4-144C	0.623	223.7	-18.1	-0.67	1.364	115.9	0.868	5.935	304.0	506.2	0.784	---	1.90	0.460	150.0	106.6	3.9	0.466
4- 920	4-146C	0.607	223.4	-17.7	-0.54	1.355	115.3	0.848	5.196	304.5	508.4	0.790	---	1.78	0.434	148.0	106.4	3.9	0.439
4- 920	4-148C	0.593	223.1	-17.4	-0.42	1.347	114.8	0.831	4.691	304.9	510.4	0.795	---	1.67	0.410	145.9	106.1	3.9	0.415
4- 920	4-150C	0.581	222.9	-17.2	-0.32	1.340	114.3	0.815	4.326	305.3	512.5	0.799	---	1.58	0.388	143.7	105.8	3.9	0.392
4- 920	4-152C	0.571	222.8	-16.9	-0.22	1.335	114.0	0.802	4.053	305.6	514.4	0.803	---	1.50	0.369	141.4	105.3	3.9	0.371
4- 920	4-154C	0.562	222.7	-16.7	-0.14	1.329	113.6	0.790	3.841	305.9	516.3	0.806	---	1.42	0.350	139.0	104.7	3.9	0.352
4- 920	4-156C	0.554	222.6	-16.5	-0.06	1.325	113.4	0.780	3.675	306.1	518.2	0.809	---	1.36	0.334	136.4	104.1	3.9	0.335
4- 920	4-158C	0.548	222.6	-16.3	0.01	1.321	113.2	0.771	3.541	306.2	519.9	0.810	---	1.30	0.319	133.8	103.3	3.9	0.319
4- 920	4-160C	0.543	222.6	-16.2	0.07	1.318	113.0	0.763	3.432	306.2	521.6	0.812	---	1.24	0.306	131.1	102.5	3.9	0.305
4- 920	4-162C	0.539	222.7	-16.1	0.13	1.315	112.9	0.757	3.342	306.2	523.3	0.813	---	1.20	0.293	128.3	101.5	4.0	0.291
4- 920	4-164C	0.536	222.8	-16.0	0.19	1.312	112.8	0.751	3.268	306.2	524.9	0.813	---	1.15	0.283	125.5	100.4	4.0	0.280
4- 920	4-166C	0.534	222.9	-15.9	0.24	1.310	112.8	0.747	3.207	306.0	526.5	0.813	---	1.11	0.273	122.5	99.2	4.0	0.269
4- 920	4-168C	0.532	223.1	-15.8	0.29	1.308	112.8	0.743	3.155	305.9	527.9	0.812	---	1.08	0.265	119.5	98.0	4.0	0.260
4- 920	4-170C	0.532	223.3	-15.8	0.34	1.306	112.8	0.739	3.112	305.6	529.4	0.811	---	1.04	0.257	116.5	96.7	4.0	0.251
4- 920	4-172C	0.532	223.6	-15.7	0.38	1.305	112.9	0.737	3.076	305.3	530.8	0.810	---	1.01	0.251	113.4	95.3	4.0	0.244
4- 920	4-174C	0.533	223.9	-15.7	0.42	1.304	113.0	0.735	3.045	304.9	532.1	0.808	---	0.98	0.245	110.4	93.9	4.0	0.238
4- 920	4-176C	0.534	224.2	-15.8	0.46	1.303	113.1	0.733	3.020	304.5	533.4	0.806	---	0.96	0.241	107.3	92.4	4.0	0.233
4- 920	4-178C	0.537	224.6	-15.8	0.50	1.302	113.3	0.732	2.999	304.1	534.6	0.803	---	0.93	0.237	104.3	91.0	4.0	0.228
4- 920	4-180C	0.539	225.0	-15.8	0.53	1.301	113.5	0.732	2.982	303.5	535.8	0.800	---	0.91	0.234	101.3	89.5	4.0	0.225
4- 920	4-182C	0.543	225.4	-15.9	0.56	1.300	113.7	0.732	2.968	303.0	536.9	0.796	---	0.89	0.232	98.3	88.1	4.0	0.222
4- 920	4-184C	0.547	225.9	-16.0	0.60	1.300	114.0	0.732	2.956	302.3	538.0	0.792	---	0.87	0.230	95.4	86.7	4.0	0.221
4- 920	4-186C	0.551	226.4	-16.0	0.63	1.299	114.2	0.733	2.947	301.7	539.1	0.786	---	0.86	0.229	92.5	85.4	3.9	0.219
4- 920	4-188C	0.556	226.9	-16.1	0.66	1.299	114.6	0.734	2.941	300.9	540.1	0.784	5.098	0.84	0.229	89.8	84.2	3.9	0.219
4- 920	4-190C	0.562	227.5	-16.2	0.69	1.299	114.9	0.735	2.936	300.2	541.1	0.779	5.094	0.82	0.229	87.1	83.1	3.9	0.219
4- 920	4-192C	0.568	228.0	-16.3	0.72	1.299	115.2	0.736	2.933	299.4	542.0	0.773	5.093	0.81	0.229	84.5	82.0	3.9	0.220
4- 920	4-194C	0.574	228.6	-16.5	0.74	1.299	115.6	0.738	2.932	298.5	542.9	0.768	5.096	0.80	0.230	82.0	81.1	3.9	0.222
4- 920	4-196C	0.581	229.2	-16.6	0.77	1.299	116.0	0.740	2.932	297.6	543.7	0.761	5.102	0.79	0.231	79.6	80.3	3.8	0.223
4- 920	4-198C	0.588	229.9	-16.7	0.80	1.299	116.4	0.743	2.933	296.7	544.5	0.755	5.111	0.78	0.232	77.3	79.6	3.8	0.226
4- 920	4-200C	0.596	230.5	-16.9	0.82	1.299	116.9	0.745	2.935	295.7	545.3	0.748	5.123	0.77	0.234	75.0	79.0	3.8	0.229
4- 920	4-202C	0.604	231.2	-17.0	0.85	1.299	117.4	0.748	2.939	294.7	546.1	0.741	5.137	0.76	0.236	72.9	78.6	3.7	0.232
4- 920	4-204C	0.613	231.9	-17.2	0.87	1.299	117.9	0.751	2.943	293.7	546.8	0.733	5.153	0.75	0.238	70.8	78.2	3.7	0.235
4- 920	4-206C	0.622	232.6	-17.3	0.89	1.299	118.4	0.754	2.948	292.6	547.4	0.725	5.171	0.75	0.240	68.9	78.0	3.7	0.239
4- 920	4-208C	0.631	233.3	-17.5	0.92	1.300	118.9	0.757	2.954	291.4	548.1	0.717	5.191	0.74	0.242	67.0	77.9	3.7	0.243
4- 920	4-210C	0.641	234.0	-17.6	0.94	1.300	119.5	0.761	2.961	290.3	548.7	0.708	5.213	0.74	0.245	65.1	77.9	3.7	0.247
4- 920	4-212C	0.651	234.8	-17.8	0.96	1.300	120.0	0.765	2.968	289.1	549.3	0.699	5.237	0.73	0.247	63.4	78.0	3.6	0.251

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 920	4-2140	0.662	235.5	-18.0	0.99	1.301	120.6	0.768	2.976	287.8	549.8	0.689	5.262	0.73	0.250	61.7	78.3	3.6	0.256
4- 920	4-2160	0.673	236.3	-18.1	1.01	1.301	121.3	0.772	2.984	286.6	550.3	0.679	5.289	0.72	0.253	60.0	78.6	3.6	0.261
4- 920	4-2180	0.684	237.1	-18.3	1.03	1.301	121.9	0.777	2.993	285.2	550.8	0.669	5.317	0.72	0.255	58.5	79.0	3.6	0.266
4- 920	4-2200	0.696	237.8	-18.5	1.06	1.302	122.5	0.781	3.002	283.9	551.2	0.658	5.347	0.72	0.258	56.9	79.5	3.6	0.271
4- 920	4-2220	0.708	238.6	-18.6	1.08	1.302	123.2	0.785	3.012	282.5	551.7	0.647	5.378	0.72	0.261	55.5	80.1	3.6	0.276
4- 920	4-2240	0.721	239.4	-18.8	1.10	1.303	123.9	0.790	3.022	281.1	552.1	0.635	5.410	0.72	0.264	54.0	80.7	3.6	0.281
4- 920	4-2260	0.734	240.3	-19.0	1.12	1.303	124.6	0.795	3.033	279.7	552.4	0.623	5.443	0.72	0.266	52.7	81.4	3.6	0.287
4- 920	4-2280	0.747	241.1	-19.1	1.15	1.304	125.4	0.799	3.044	278.2	552.8	0.611	5.477	0.72	0.269	51.3	82.2	3.6	0.292
4- 920	4-2300	0.761	241.9	-19.3	1.17	1.304	126.1	0.804	3.055	276.7	553.1	0.598	5.513	0.72	0.272	50.0	83.1	3.6	0.298
4- 920	4-2320	0.775	242.7	-19.4	1.19	1.305	126.9	0.809	3.067	275.2	553.3	0.585	5.549	0.73	0.275	48.7	84.0	3.5	0.304
4- 920	4-2340	0.789	243.6	-19.6	1.22	1.305	127.7	0.814	3.079	273.6	553.6	0.571	5.586	0.73	0.278	47.5	85.0	3.5	0.310
4- 920	4-2360	0.804	244.4	-19.8	1.24	1.305	128.5	0.820	3.091	272.0	553.8	0.558	5.625	0.74	0.280	46.2	86.1	3.5	0.315
4- 920	4-2380	0.819	245.3	-19.9	1.26	1.306	129.4	0.825	3.104	270.4	554.0	0.543	5.664	0.74	0.283	45.0	87.2	3.5	0.321
4- 920	4-2400	0.834	246.2	-20.1	1.29	1.306	130.2	0.830	3.116	268.7	554.1	0.529	5.704	0.75	0.286	43.8	88.3	3.5	0.328
4- 920	4-2420	0.850	247.0	-20.2	1.31	1.307	131.1	0.836	3.129	267.0	554.3	0.514	5.745	0.75	0.289	42.7	89.5	3.5	0.334
4- 920	4-2440	0.866	247.9	-20.4	1.34	1.308	132.0	0.841	3.142	265.3	554.4	0.499	5.786	0.76	0.291	41.5	90.8	3.5	0.340
4- 920	4-2460	0.883	248.8	-20.5	1.36	1.308	132.9	0.847	3.156	263.6	554.5	0.483	5.828	0.77	0.294	40.4	92.1	3.5	0.346
4- 920	4-2480	0.900	249.7	-20.7	1.39	1.309	133.9	0.852	3.170	261.8	554.5	0.468	5.871	0.78	0.296	39.3	93.4	3.5	0.352
4- 920	4-2500	0.917	250.6	-20.8	1.42	1.309	134.8	0.858	3.183	260.0	554.5	0.452	5.915	0.79	0.299	38.2	94.8	3.5	0.359
4- 920	4-2520	0.935	251.5	-20.9	1.45	1.310	135.8	0.864	3.197	258.1	554.5	0.435	5.959	0.80	0.301	37.1	96.2	3.4	0.365
4- 930	4-1350	0.690	228.7	-27.6	-4.92	1.434	116.2	1.02137.596		308.1	493.0	0.795	---	6.14	0.636	157.9	107.6	5.2	0.639
4- 930	4-1370	0.656	228.6	-24.9	-3.39	1.416	115.2	0.98040.155		309.0	495.5	0.804	---	4.61	0.595	156.3	107.9	4.8	0.597
4- 930	4-1390	0.629	228.3	-23.1	-2.46	1.401	114.3	0.94414.549		309.8	497.9	0.813	---	3.70	0.557	154.7	108.1	4.5	0.559
4- 930	4-1410	0.605	228.0	-21.9	-1.84	1.387	113.5	0.913	9.419	310.6	500.3	0.821	---	3.08	0.523	152.9	108.2	4.3	0.524
4- 930	4-1430	0.584	227.7	-20.9	-1.39	1.376	112.8	0.886	7.232	311.3	502.6	0.828	---	2.64	0.492	151.1	108.2	4.2	0.492
4- 930	4-1450	0.566	227.4	-20.2	-1.06	1.366	112.1	0.862	6.028	311.9	504.8	0.834	---	2.32	0.464	149.2	108.1	4.1	0.463
4- 930	4-1470	0.550	227.1	-19.5	-0.80	1.357	111.6	0.841	5.270	312.5	507.1	0.839	---	2.06	0.438	147.2	107.9	4.0	0.436
4- 930	4-1490	0.537	226.8	-19.0	-0.59	1.349	111.1	0.823	4.753	313.0	509.2	0.844	---	1.86	0.414	145.1	107.7	4.0	0.412
4- 930	4-1510	0.525	226.6	-18.5	-0.41	1.343	110.6	0.806	4.380	313.5	511.3	0.848	---	1.69	0.392	142.9	107.4	4.0	0.389
4- 930	4-1530	0.514	226.4	-18.1	-0.27	1.337	110.3	0.792	4.101	313.8	513.3	0.851	---	1.55	0.373	140.6	106.9	3.9	0.368
4- 930	4-1550	0.506	226.2	-17.8	-0.14	1.332	109.9	0.780	3.885	314.1	515.3	0.854	---	1.44	0.355	138.3	106.4	3.9	0.349
4- 930	4-1570	0.498	226.1	-17.5	-0.04	1.327	109.7	0.770	3.715	314.4	517.2	0.856	---	1.34	0.339	135.8	105.8	3.9	0.332
4- 930	4-1590	0.492	226.1	-17.2	0.06	1.323	109.5	0.760	3.579	314.6	519.0	0.858	---	1.25	0.324	133.2	105.1	3.9	0.316
4- 930	4-1610	0.487	226.1	-17.0	0.14	1.320	109.3	0.752	3.468	314.7	520.7	0.859	---	1.18	0.311	130.6	104.2	3.9	0.302
4- 930	4-1630	0.483	226.1	-16.8	0.21	1.317	109.2	0.745	3.377	314.7	522.5	0.860	---	1.11	0.299	127.8	103.3	3.9	0.288
4- 930	4-1650	0.480	226.2	-16.6	0.28	1.314	109.1	0.739	3.301	314.7	524.1	0.861	---	1.05	0.288	125.0	102.3	3.9	0.276
4- 930	4-1670	0.477	226.3	-16.5	0.34	1.312	109.0	0.734	3.238	314.6	525.7	0.861	---	1.00	0.279	122.2	101.2	3.9	0.266
4- 930	4-1690	0.476	226.5	-16.4	0.39	1.310	109.0	0.730	3.186	314.4	527.2	0.860	---	0.96	0.271	119.3	99.9	3.9	0.256
4- 930	4-1710	0.475	226.8	-16.3	0.44	1.309	109.1	0.726	3.142	314.2	528.7	0.860	---	0.91	0.264	116.3	98.7	3.9	0.248
4- 930	4-1730	0.475	227.0	-16.3	0.49	1.307	109.1	0.724	3.105	314.0	530.1	0.858	---	0.88	0.257	113.4	97.3	3.9	0.240
4- 930	4-1750	0.476	227.4	-16.3	0.53	1.306	109.2	0.721	3.074	313.6	531.5	0.857	---	0.84	0.252	110.4	95.9	3.9	0.234
4- 930	4-1770	0.477	227.7	-16.3	0.57	1.305	109.3	0.719	3.048	313.2	532.8	0.855	---	0.81	0.248	107.5	94.5	3.9	0.228
4- 930	4-1790	0.479	228.1	-16.3	0.61	1.304	109.5	0.718	3.026	312.8	534.1	0.853	---	0.78	0.244	104.6	93.0	3.9	0.224
4- 930	4-1810	0.481	228.6	-16.3	0.64	1.303	109.7	0.717	3.008	312.3	535.2	0.850	---	0.76	0.241	101.7	91.6	3.9	0.220
4- 930	4-1830	0.484	229.1	-16.4	0.68	1.303	109.9	0.717	2.994	311.8	536.5	0.848	---	0.74	0.239	98.8	90.2	3.9	0.217
4- 930	4-1850	0.487	229.6	-16.4	0.71	1.302	110.1	0.717	2.982	311.2	537.6	0.844	---	0.71	0.237	96.1	88.8	3.8	0.215
4- 930	4-1870	0.491	230.1	-16.5	0.73	1.302	110.4	0.717	2.973	310.6	538.7	0.841	---	0.70	0.236	93.3	87.5	3.8	0.214
4- 930	4-1890	0.496	230.7	-16.6	0.76	1.301	110.7	0.718	2.966	309.9	539.7	0.837	---	0.68	0.235	90.7	86.2	3.8	0.213
4- 930	4-1910	0.501	231.3	-16.7	0.79	1.301	111.0	0.719	2.961	309.1	540.7	0.833	5.089	0.66	0.235	88.2	85.0	3.8	0.213
4- 930	4-1930	0.506	231.9	-16.8	0.81	1.301	111.3	0.720	2.958	308.4	541.7	0.828	5.087	0.65	0.236	85.7	84.0	3.8	0.213
4- 930	4-1950	0.512	232.6	-17.0	0.84	1.301	111.7	0.721	2.956	307.5	542.6	0.824	5.089	0.63	0.236	83.3	83.0	3.7	0.215
4- 930	4-1970	0.518	233.3	-17.1	0.86	1.301	112.0	0.723	2.956	306.7	543.5	0.818	5.093	0.62	0.237	81.0	82.1	3.7	0.216
4- 930	4-1990	0.524	234.0	-17.2	0.88	1.301	112.4	0.725	2.957	305.8	544.3	0.813	5.101	0.61	0.238	78.8	81.4	3.7	0.218
4- 930	4-2010	0.531	234.7	-17.4	0.90	1.301	112.9	0.727	2.959	304.8	545.2	0.807	5.111	0.60	0.240	76.7	80.8	3.7	0.220
4- 930	4-2030	0.539	235.4	-17.5	0.92	1.301	113.3	0.730	2.962	303.9	545.9	0.801	5.123	0.59	0.242	74.6	80.3	3.6	0.223
4- 930	4-2050	0.547	236.2	-17.7	0.94	1.301	113.8	0.732	2.966	302.8	546.7	0.794	5.138	0.58	0.244	72.6	79.9	3.6	0.226
4- 930	4-2070	0.555	236.9	-17.9	0.96	1.302	114.2	0.735	2.971	301.8	547.4	0.787	5.155	0.57	0.246	70.8	79.6	3.6	0.229
4- 930	4-2090	0.563	237.7	-18.0	0.98	1.302	114.7	0.738	2.977	300.7	548.1	0.780	5.173	0.56	0.248	68.9	79.4	3.6	0.233
4- 930	4-2110	0.572	238.5	-18.2	1.00	1.302	115.3	0.741	2.983	299.6	548.7	0.773	5.194	0.55	0.250	67.2	79.4	3.6	0.237
4- 930	4-2130	0.582	239.3	-18.4	1.02	1.302	115.8	0.744	2.990	298.4	549.3	0.765	5.216	0.55	0.253	65.5	79.4	3.5	0.241
4- 930	4-2150	0.591	240.1	-18.5	1.04	1.303	116.4	0.748	2.998	297.2	549.9	0.756	5.240	0.54	0.255	63.9	79.6	3.5	0.245
4- 930	4-2170	0.602	241.0	-18.7	1.06	1.303	116.9	0.751	3.006	296.0	550.5	0.747	5.265	0.54	0.258	62.4	79.9	3.5	0.250
4- 930	4-2190	0.612	241.8	-18.9	1.07	1.304	117.5	0.755	3.015	294.7	551.0	0.738	5.291	0.53	0.260	60.9	80.2	3.5	0.254
4- 930	4-2210	0.623	242.7	-19.0	1.09	1.304	118.1	0.759	3.024	293.4	551.5	0.729	5.319	0.53	0.263	59.4	80.6	3.5	0.259
4- 930	4-2230	0.634	243.5	-19.2	1.11	1.304	118.8	0.763	3.034	292.1	552.0	0.719	5.348	0.53	0.266	58.0	81.2	3.5	0.264
4- 930	4-2250	0.646	244.4	-19.4	1.12	1.305	119.4	0.767	3.044	290.7	552.4	0.709	5.379	0.52	0.268	56.6	81.8	3.5	0.269
4- 930	4-2270	0.658	245.2	-19.5	1.14	1.305	120.1	0.771	3.054	289.3	552.8	0.698	5.410	0.52	0.271	55.3	82.4	3.5	0.274
4- 930	4-2290	0.670	246.1	-19.7	1.16	1.306	120.8	0.776	3.065	287.9	553.2	0.687	5.443	0.52	0.274	54.0	83.2	3.5	0.279
4- 930	4-2310	0.683	247.0	-19.8	1.17	1.306	121.5	0.780	3.076	286.5	553.6	0.676	5.477	0.52	0.276	52.8	84.0	3.5	0.284
4- 930	4-2330	0.696	247.9	-20.0	1.19	1.306	122.2	0.785	3.087	285.0	553.9	0.664	5.511	0.52	0.279	51.6	84.9	3.4	0.290
4- 930	4-2350	0.709	248.8	-20.1	1.21	1.307	123.0	0.790	3.099	283.5	554.2	0.652	5.547	0.52	0.282	50.4	85.8	3.4	0.295
4- 930	4-2370	0.723	249.7	-20.3	1.22	1.307	123.7	0.795	3.111	281.9	554.5	0.639	5.583	0.52	0.284	49.2	86.8	3.4	0.300
4- 930	4-2390	0.737	250.6	-20.4	1.24	1.308	124.5	0.800	3.123	280.4	554.7	0.626	5.621	0.52	0.287	48.1	87.8	3.4	0.306
4- 930	4-2410	0.751	251.5	-20.6	1.25	1.308	125.3	0.805	3.136	278.8	555.0	0.613	5.659	0.52	0.290	47.0	88.9	3.4	0.312
4- 930	4-2430	0.766	252.4	-20.7	1.27	1.309	126.1	0.810	3.149	277.1	555.2	0.599	5.698	0.52	0.292	45.9	90.1	3.4	0.317
4- 930	4-2450	0.781	253.3	-20.8	1.29	1.309	127.0	0.815	3.162	275.5	555.3	0.585	5.738	0.53	0.295	44.8	91.3	3.4	0.323
4- 930	4-2470	0.797	254.3	-21.0	1.31	1.310	127.8	0.820	3.175	273.8	555.5	0.570	5.779	0.53	0.297	43.7	92.5	3.4	0.329
4- 930	4-2490	0.812	255.2	-21.1	1.32	1.310	128.7	0.826	3.188	272.1	555.6	0.556	5.821	0.53	0.300	42.7	93.8	3.4	0.335
4- 930	4-2510	0.829	256.1	-21.2	1.34	1.311	129.6	0.831	3.202	270.4	555.7	0.541	5.863	0.54	0.302	41.7	95.1	3.4	0.341
4- 930	4-2530	0.845	257.1	-21.3	1.36	1.311	130.5	0.837	3.215	268.6	555.7	0.525	5.906	0.54	0.304	40.6	96.5	3.4	0.347

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 940	4-1360	0.630	237.3	-9.2	5.01	1.435	112.2	1.02239	6.271	316.1	491.5	0.845	---	-3.75	0.636	157.1	109.0	1.4	0.633
4- 940	4-1380	0.610	238.1	-4.4	7.06	1.417	111.3	0.97839	5.235	317.0	494.1	0.853	---	-5.79	0.595	155.5	109.1	0.5	0.592
4- 940	4-1400	0.633	242.9	9.5	13.97	1.401	110.4	0.94114	4.523	317.9	496.6	0.861	---	-12.70	0.557	153.9	108.7	-2.6	0.558
4- 940	4-1420	1.016	304.0	-85.4	-43.67	1.388	109.7	0.908	9.443	318.6	499.0	0.867	---	44.95	0.524	152.2	102.7	20.4	0.575
4- 940	4-1440	0.548	227.3	-36.6	-7.53	1.377	108.9	0.880	7.263	319.5	501.4	0.873	---	8.81	0.493	150.4	109.3	7.3	0.490
4- 940	4-1460	0.514	228.7	-27.3	-3.52	1.367	108.3	0.855	6.060	320.2	503.7	0.879	---	4.80	0.465	148.4	109.4	5.4	0.459
4- 940	4-1480	0.496	229.0	-23.6	-2.01	1.358	107.7	0.833	5.301	320.8	506.0	0.883	---	3.29	0.439	146.4	109.3	4.7	0.432
4- 940	4-1500	0.482	229.0	-21.5	-1.22	1.350	107.3	0.814	4.783	321.4	508.2	0.887	---	2.51	0.416	144.4	109.1	4.4	0.408
4- 940	4-1520	0.470	228.8	-20.1	-0.73	1.344	106.8	0.798	4.409	321.9	510.4	0.891	---	2.02	0.395	142.2	108.8	4.2	0.385
4- 940	4-1540	0.460	228.7	-19.2	-0.40	1.338	106.5	0.784	4.129	322.3	512.4	0.894	---	1.70	0.375	139.9	108.4	4.0	0.365
4- 940	4-1560	0.452	228.5	-18.5	-0.16	1.333	106.2	0.771	3.912	322.7	514.5	0.896	---	1.46	0.358	137.5	107.8	3.9	0.346
4- 940	4-1580	0.445	228.4	-17.9	0.02	1.329	105.9	0.760	3.742	323.0	516.4	0.898	---	1.28	0.342	135.1	107.2	3.9	0.328
4- 940	4-1600	0.439	228.3	-17.5	0.17	1.325	105.7	0.750	3.605	323.2	518.3	0.900	---	1.14	0.328	132.5	106.5	3.8	0.313
4- 940	4-1620	0.434	228.3	-17.1	0.28	1.322	105.5	0.742	3.493	323.3	520.1	0.901	---	1.03	0.315	129.9	105.7	3.8	0.298
4- 940	4-1640	0.430	228.3	-16.8	0.38	1.319	105.4	0.735	3.401	323.4	521.8	0.902	---	0.94	0.303	127.2	104.8	3.8	0.285
4- 940	4-1660	0.427	228.4	-16.6	0.46	1.316	105.3	0.729	3.325	323.4	523.5	0.902	---	0.87	0.293	124.5	103.8	3.7	0.273
4- 940	4-1680	0.424	228.6	-16.4	0.53	1.314	105.3	0.723	3.262	323.4	525.1	0.902	---	0.80	0.284	121.7	102.7	3.7	0.262
4- 940	4-1700	0.423	228.8	-16.2	0.58	1.312	105.3	0.719	3.209	323.2	526.7	0.902	---	0.75	0.275	118.9	101.5	3.7	0.253
4- 940	4-1720	0.422	229.0	-16.1	0.64	1.310	105.3	0.715	3.165	323.1	528.2	0.902	---	0.70	0.268	116.0	100.3	3.7	0.244
4- 940	4-1740	0.422	229.3	-16.1	0.68	1.309	105.4	0.712	3.128	322.8	529.6	0.901	---	0.66	0.262	113.1	99.0	3.7	0.237
4- 940	4-1760	0.422	229.7	-16.1	0.72	1.308	105.4	0.709	3.096	322.5	531.0	0.900	---	0.62	0.257	110.3	97.6	3.7	0.230
4- 940	4-1780	0.423	230.1	-16.1	0.76	1.307	105.6	0.707	3.070	322.1	532.4	0.898	---	0.59	0.253	107.4	96.2	3.7	0.224
4- 940	4-1800	0.424	230.5	-16.1	0.79	1.306	105.7	0.706	3.049	321.7	533.7	0.896	---	0.56	0.249	104.6	94.7	3.7	0.220
4- 940	4-1820	0.426	231.0	-16.1	0.82	1.305	105.9	0.705	3.031	321.3	534.9	0.894	---	0.54	0.246	101.8	93.3	3.7	0.216
4- 940	4-1840	0.429	231.6	-16.2	0.85	1.304	106.1	0.704	3.016	320.8	536.1	0.892	---	0.51	0.244	99.1	91.9	3.6	0.213
4- 940	4-1860	0.432	232.1	-16.3	0.88	1.304	106.3	0.704	3.004	320.2	537.3	0.890	---	0.49	0.243	96.4	90.5	3.6	0.210
4- 940	4-1880	0.435	232.8	-16.4	0.90	1.303	106.6	0.704	2.995	319.6	538.4	0.887	---	0.48	0.242	93.8	89.2	3.6	0.209
4- 940	4-1900	0.439	233.4	-16.5	0.92	1.303	106.8	0.704	2.988	318.9	539.5	0.884	---	0.46	0.241	91.3	87.9	3.6	0.208
4- 940	4-1920	0.443	234.1	-16.6	0.94	1.303	107.1	0.705	2.983	318.2	540.5	0.880	5.085	0.44	0.241	88.9	86.7	3.6	0.208
4- 940	4-1940	0.448	234.8	-16.8	0.96	1.303	107.4	0.706	2.979	317.4	541.5	0.877	5.082	0.43	0.241	86.5	85.6	3.6	0.208
4- 940	4-1960	0.453	235.5	-16.9	0.98	1.303	107.8	0.707	2.978	316.6	542.4	0.873	5.083	0.42	0.242	84.2	84.6	3.5	0.209
4- 940	4-1980	0.459	236.3	-17.1	1.00	1.303	108.1	0.708	2.977	315.8	543.3	0.868	5.086	0.40	0.243	82.0	83.7	3.5	0.210
4- 940	4-2000	0.464	237.1	-17.2	1.01	1.303	108.5	0.710	2.978	314.9	544.2	0.864	5.092	0.39	0.244	79.9	83.0	3.5	0.212
4- 940	4-2020	0.471	237.9	-17.4	1.03	1.303	108.9	0.712	2.980	314.0	545.1	0.859	5.101	0.38	0.245	77.9	82.3	3.5	0.214
4- 940	4-2040	0.477	238.8	-17.6	1.04	1.303	109.3	0.714	2.983	313.1	545.9	0.854	5.113	0.37	0.247	75.9	81.8	3.5	0.216
4- 940	4-2060	0.484	239.6	-17.8	1.06	1.303	109.8	0.716	2.987	312.1	546.6	0.848	5.126	0.37	0.249	74.0	81.3	3.4	0.219
4- 940	4-2080	0.492	240.5	-18.0	1.07	1.303	110.2	0.718	2.992	311.0	547.4	0.843	5.142	0.36	0.251	72.2	81.0	3.4	0.222
4- 940	4-2100	0.500	241.4	-18.1	1.09	1.304	110.7	0.721	2.998	310.0	548.1	0.837	5.159	0.35	0.253	70.5	80.8	3.4	0.225
4- 940	4-2120	0.508	242.2	-18.3	1.10	1.304	111.2	0.724	3.004	308.9	548.8	0.830	5.178	0.34	0.255	68.8	80.7	3.4	0.229
4- 940	4-2140	0.516	243.2	-18.5	1.11	1.304	111.7	0.727	3.011	307.8	549.4	0.823	5.199	0.34	0.258	67.2	80.8	3.4	0.232
4- 940	4-2160	0.525	244.1	-18.7	1.12	1.304	112.2	0.730	3.019	306.6	550.0	0.816	5.221	0.33	0.260	65.7	80.9	3.4	0.236
4- 940	4-2180	0.534	245.0	-18.9	1.13	1.305	112.8	0.733	3.027	305.4	550.6	0.809	5.245	0.33	0.262	64.2	81.1	3.4	0.240
4- 940	4-2200	0.544	245.9	-19.0	1.14	1.305	113.3	0.736	3.036	304.2	551.2	0.801	5.270	0.32	0.265	62.8	81.4	3.3	0.245
4- 940	4-2220	0.554	246.9	-19.2	1.16	1.306	113.9	0.740	3.045	302.9	551.7	0.793	5.297	0.32	0.268	61.4	81.8	3.3	0.249
4- 940	4-2240	0.564	247.8	-19.4	1.17	1.306	114.5	0.743	3.054	301.6	552.2	0.784	5.324	0.32	0.270	60.1	82.2	3.3	0.253
4- 940	4-2260	0.575	248.8	-19.6	1.18	1.306	115.1	0.747	3.064	300.3	552.7	0.775	5.353	0.31	0.273	58.8	82.8	3.3	0.258
4- 940	4-2280	0.586	249.7	-19.7	1.19	1.307	115.7	0.751	3.075	299.0	553.2	0.766	5.383	0.31	0.275	57.5	83.4	3.3	0.263
4- 940	4-2300	0.597	250.7	-19.9	1.20	1.307	116.4	0.755	3.085	297.6	553.6	0.757	5.414	0.31	0.278	56.3	84.1	3.3	0.268
4- 940	4-2320	0.609	251.6	-20.0	1.21	1.308	117.0	0.759	3.096	296.2	554.0	0.747	5.446	0.30	0.280	55.1	84.9	3.3	0.272
4- 940	4-2340	0.621	252.6	-20.2	1.22	1.308	117.7	0.763	3.108	294.7	554.4	0.736	5.479	0.30	0.283	54.0	85.7	3.3	0.277
4- 940	4-2360	0.633	253.6	-20.3	1.23	1.309	118.4	0.767	3.119	293.3	554.7	0.725	5.513	0.30	0.286	52.9	86.6	3.3	0.282
4- 940	4-2380	0.646	254.5	-20.5	1.24	1.309	119.1	0.772	3.131	291.8	555.1	0.714	5.548	0.30	0.288	51.8	87.6	3.3	0.288
4- 940	4-2400	0.659	255.5	-20.6	1.25	1.309	119.9	0.776	3.143	290.2	555.4	0.703	5.584	0.30	0.291	50.7	88.6	3.3	0.293
4- 940	4-2420	0.672	256.5	-20.7	1.26	1.310	120.6	0.781	3.155	288.7	555.6	0.691	5.620	0.30	0.293	49.6	89.6	3.3	0.298
4- 940	4-2440	0.686	257.5	-20.9	1.26	1.310	121.4	0.786	3.168	287.1	555.9	0.678	5.658	0.30	0.296	48.6	90.7	3.3	0.303
4- 940	4-2460	0.700	258.4	-21.0	1.27	1.311	122.2	0.791	3.181	285.5	556.1	0.666	5.696	0.30	0.298	47.6	91.9	3.3	0.309
4- 940	4-2480	0.714	259.4	-21.1	1.28	1.311	123.0	0.796	3.194	283.9	556.3	0.653	5.735	0.30	0.300	46.6	93.1	3.3	0.314
4- 940	4-2500	0.729	260.4	-21.2	1.29	1.312	123.8	0.801	3.207	282.2	556.5	0.639	5.775	0.30	0.303	45.6	94.3	3.3	0.320
4- 940	4-2520	0.744	261.4	-21.3	1.30	1.312	124.6	0.806	3.220	280.6	556.6	0.625	5.815	0.30	0.305	44.7	95.6	3.3	0.325
4- 940	4-2540	0.760	262.4	-21.4	1.31	1.313	125.5	0.811	3.234	278.9	556.8	0.611	5.857	0.30	0.307	43.7	96.9	3.2	0.331
4- 950	4-1330	0.630	239.6	-17.1	1.53	1.478	110.2	1.132	-6.613	322.1	484.9	0.873	---	-0.23	0.727	159.2	109.7	2.8	0.721
4- 950	4-1350	0.594	238.6	-16.7	1.55	1.454	109.1	1.071	12.389	323.2	487.7	0.882	---	-0.26	0.677	157.8	110.0	2.8	0.670
4- 950	4-1370	0.563	237.7	-16.2	1.58	1.434	108.0	1.019	46.673	324.3	490.3	0.890	---	-0.28	0.633	156.3	110.3	2.8	0.625
4- 950	4-1390	0.536	236.8	-15.8	1.62	1.416	107.1	0.974	34.851	325.3	493.0	0.897	---	-0.32	0.592	154.8	110.5	2.7	0.584
4- 950	4-1410	0.512	235.9	-15.3	1.67	1.401	106.3	0.936	14.012	326.3	495.6	0.903	---	-0.37	0.555	153.1	110.6	2.7	0.547
4- 950	4-1430	0.491	235.1	-14.7	1.73	1.388	105.5	0.902	9.275	327.2	498.1	0.909	---	-0.43	0.522	151.4	110.7	2.7	0.513
4- 950	4-1450	0.473	234.3	-14.1	1.83	1.377	104.9	0.873	7.190	328.0	500.6	0.914	---	-0.53	0.492	149.6	110.7	2.6	0.481
4- 950	4-1470	0.457	233.7	-13.4	1.97	1.367	104.3	0.848	6.025	328.8	503.0	0.918	---	-0.67	0.464	147.6	110.6	2.5	0.453
4- 950	4-1490	0.444	233.2	-12.3	2.24	1.358	103.8	0.826	5.285	329.5	505.3	0.922	---	-0.94	0.439	145.6	110.4	2.3	0.427
4- 950	4-1510	0.433	233.1	-10.2	2.84	1.351	103.3	0.806	4.777	330.1	507.6	0.925	---	-1.54	0.416	143.6	110.2	1.9	0.403
4- 950	4-1530	0.434	235.1	-1.8	5.65	1.344	102.9	0.790	4.410	330.7	509.8	0.928	---	-4.35	0.395	141.4	109.8	0.1	0.381
4- 950	4-1550	0.417	226.3	-30.2	-3.90	1.339	102.6	0.775	4.134	331.1	511.9	0.930	---	5.20	0.376	139.1	109.4	6.4	0.361
4- 950	4-1570	0.402	228.9	-19.2	-0.32	1.334	102.3	0.762	3.920	331.5	513.9	0.932	---	1.63	0.359	136.7	109.0	4.1	0.341
4- 950	4-1590	0.395	229.1	-17.0	0.34	1.329	102.0	0.751	3.752	331.8	515.9	0.933	---	0.96	0.343	134.3	108.4	3.6	0.324
4- 950	4-1610	0.390	229.1	-16.0	0.62	1.326	101.8	0.742	3.616	332.1	517.8	0.935	---	0.68	0.329	131.8	107.7	3.5	0.309
4- 950	4-1630	0.385	229.1	-15.4	0.78	1.322	101.7	0.733	3.506	332.3	519.7	0.936	---	0.53	0.317	129.2	106.9	3.4	0.294
4- 950	4-1650	0.382	229.1	-15.1	0.88	1.320	101.6	0.726	3.415	332.4	521.4	0.936	---	0.43	0.305	126.5	106.0	3.3	0.281
4- 950	4-1670	0.379	229.2	-14.8	0.94	1.317	101.5	0.720	3.340	332.4	523.1	0.937	---	0.37	0.295	123.8	105.0	3.3	0.269
4- 950	4-1690	0.377	229.3	-14.7	0.99	1.315	101.5	0.714	3.277	332.4	524.8	0.937	---	0.32	0.286	121.1	103.9	3.3	0.259
4- 950	4-1710	0.375	229.5	-14.6	1.03	1.313	101.5	0.710	3.225	332.3	526.4	0.936	---	0.28	0.279	118.3	102.7	3.3	0.249

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 950	4-1730	0.374	229.7	-14.5	1.06	1.311	101.5	0.706	3.181	332.1	527.9	0.936	---	0.25	0.272	115.5	101.5	3.3	0.241
4- 950	4-1750	0.374	230.1	-14.5	1.09	1.310	101.6	0.702	3.144	331.9	529.4	0.935	---	0.23	0.266	112.7	100.2	3.3	0.233
4- 950	4-1770	0.374	230.4	-14.6	1.11	1.309	101.6	0.700	3.113	331.6	530.8	0.935	---	0.21	0.261	109.9	98.8	3.3	0.227
4- 950	4-1790	0.374	230.9	-14.6	1.12	1.308	101.8	0.698	3.087	331.2	532.1	0.934	---	0.19	0.257	107.2	97.4	3.3	0.221
4- 950	4-1810	0.376	231.4	-14.7	1.14	1.307	101.9	0.696	3.066	330.8	533.5	0.932	---	0.18	0.253	104.4	96.0	3.3	0.216
4- 950	4-1830	0.377	231.9	-14.8	1.15	1.306	102.1	0.695	3.048	330.4	534.7	0.931	---	0.17	0.251	101.7	94.6	3.2	0.212
4- 950	4-1850	0.379	232.6	-15.0	1.16	1.305	102.3	0.694	3.033	329.9	535.9	0.929	---	0.16	0.249	99.1	93.2	3.2	0.209
4- 950	4-1870	0.382	233.2	-15.1	1.17	1.305	102.5	0.693	3.022	329.3	537.1	0.927	---	0.15	0.247	96.5	91.8	3.2	0.207
4- 950	4-1890	0.384	233.9	-15.3	1.18	1.305	102.7	0.693	3.013	328.7	538.2	0.925	---	0.14	0.246	94.0	90.5	3.2	0.205
4- 950	4-1910	0.388	234.7	-15.5	1.19	1.304	103.0	0.693	3.006	328.1	539.3	0.922	---	0.13	0.246	91.6	89.2	3.2	0.204
4- 950	4-1930	0.391	235.5	-15.7	1.20	1.304	103.3	0.693	3.001	327.4	540.3	0.920	5.082	0.13	0.246	89.2	88.1	3.2	0.203
4- 950	4-1950	0.395	236.3	-15.9	1.20	1.304	103.6	0.694	2.998	326.6	541.3	0.917	5.078	0.12	0.246	86.9	87.0	3.2	0.203
4- 950	4-1970	0.400	237.1	-16.1	1.21	1.304	103.9	0.695	2.996	325.9	542.3	0.914	5.078	0.11	0.247	84.8	86.0	3.2	0.204
4- 950	4-1990	0.405	238.0	-16.3	1.22	1.304	104.3	0.696	2.996	325.0	543.2	0.911	5.081	0.11	0.248	82.6	85.1	3.2	0.205
4- 950	4-2010	0.410	239.0	-16.5	1.22	1.304	104.6	0.697	2.997	324.2	544.1	0.907	5.086	0.11	0.249	80.6	84.3	3.2	0.206
4- 950	4-2030	0.415	239.9	-16.8	1.23	1.304	105.0	0.699	2.999	323.3	545.0	0.903	5.095	0.10	0.250	78.7	83.6	3.2	0.208
4- 950	4-2050	0.421	240.9	-17.0	1.23	1.304	105.4	0.701	3.002	322.3	545.8	0.899	5.105	0.10	0.252	76.8	83.0	3.2	0.210
4- 950	4-2070	0.427	241.8	-17.2	1.24	1.304	105.8	0.702	3.006	321.4	546.6	0.895	5.118	0.10	0.254	75.0	82.6	3.2	0.213
4- 950	4-2090	0.434	242.8	-17.5	1.24	1.305	106.2	0.704	3.011	320.4	547.4	0.890	5.132	0.09	0.256	73.3	82.3	3.1	0.216
4- 950	4-2110	0.441	243.9	-17.7	1.24	1.305	106.7	0.707	3.017	319.3	548.1	0.885	5.148	0.09	0.258	71.6	82.0	3.1	0.219
4- 950	4-2130	0.448	244.9	-17.9	1.25	1.305	107.2	0.709	3.023	318.2	548.8	0.880	5.167	0.09	0.260	70.0	81.9	3.1	0.222
4- 950	4-2150	0.456	245.9	-18.1	1.25	1.305	107.7	0.712	3.030	317.1	549.5	0.874	5.186	0.09	0.262	68.5	81.9	3.1	0.225
4- 950	4-2170	0.464	247.0	-18.4	1.25	1.306	108.2	0.714	3.038	316.0	550.1	0.868	5.207	0.08	0.264	67.0	82.0	3.1	0.229
4- 950	4-2190	0.472	248.0	-18.6	1.26	1.306	108.7	0.717	3.046	314.8	550.8	0.862	5.230	0.08	0.267	65.6	82.2	3.1	0.233
4- 950	4-2210	0.481	249.1	-18.8	1.26	1.306	109.2	0.720	3.055	313.6	551.4	0.856	5.254	0.08	0.269	64.3	82.5	3.1	0.237
4- 950	4-2230	0.490	250.2	-19.0	1.26	1.307	109.8	0.723	3.064	312.4	551.9	0.849	5.279	0.08	0.272	63.0	82.8	3.1	0.241
4- 950	4-2250	0.499	251.2	-19.2	1.27	1.307	110.3	0.726	3.073	311.1	552.5	0.842	5.305	0.08	0.274	61.7	83.3	3.1	0.245
4- 950	4-2270	0.509	252.3	-19.4	1.27	1.308	110.9	0.729	3.083	309.8	553.0	0.834	5.332	0.08	0.277	60.5	83.8	3.1	0.249
4- 950	4-2290	0.519	253.4	-19.6	1.27	1.308	111.5	0.733	3.094	308.5	553.5	0.826	5.361	0.08	0.279	59.3	84.4	3.1	0.254
4- 950	4-2310	0.529	254.5	-19.7	1.27	1.308	112.1	0.736	3.104	307.2	553.9	0.818	5.391	0.07	0.282	58.1	85.1	3.1	0.258
4- 950	4-2330	0.540	255.5	-19.9	1.28	1.309	112.7	0.740	3.115	305.8	554.4	0.810	5.421	0.07	0.284	57.0	85.8	3.1	0.263
4- 950	4-2350	0.551	256.6	-20.1	1.28	1.309	113.4	0.744	3.127	304.4	554.8	0.801	5.453	0.07	0.287	55.9	86.6	3.1	0.267
4- 950	4-2370	0.562	257.7	-20.2	1.28	1.310	114.0	0.748	3.138	303.0	555.2	0.792	5.485	0.07	0.289	54.9	87.5	3.1	0.272
4- 950	4-2390	0.573	258.8	-20.4	1.28	1.310	114.7	0.752	3.150	301.5	555.5	0.782	5.518	0.07	0.292	53.9	88.4	3.1	0.277
4- 950	4-2410	0.585	259.8	-20.5	1.29	1.311	115.4	0.756	3.162	300.0	555.9	0.772	5.552	0.07	0.294	52.8	89.3	3.1	0.282
4- 950	4-2430	0.598	260.9	-20.6	1.29	1.311	116.1	0.760	3.174	298.5	556.2	0.762	5.587	0.07	0.297	51.9	90.4	3.1	0.286
4- 950	4-2450	0.610	262.0	-20.8	1.29	1.312	116.8	0.764	3.187	297.0	556.5	0.751	5.623	0.07	0.299	50.9	91.4	3.1	0.291
4- 950	4-2470	0.623	263.0	-20.9	1.29	1.312	117.6	0.769	3.200	295.4	556.8	0.740	5.660	0.07	0.301	50.0	92.5	3.1	0.296
4- 950	4-2490	0.637	264.1	-21.0	1.30	1.313	118.3	0.773	3.213	293.9	557.0	0.728	5.697	0.07	0.304	49.0	93.7	3.1	0.301
4- 950	4-2510	0.650	265.2	-21.1	1.30	1.313	119.1	0.778	3.226	292.3	557.2	0.716	5.735	0.07	0.306	48.1	94.9	3.1	0.306
4- 950	4-2530	0.664	266.2	-21.2	1.30	1.313	119.9	0.783	3.239	290.6	557.4	0.704	5.774	0.07	0.308	47.2	96.1	3.1	0.311
4- 950	4-2550	0.679	267.3	-21.3	1.30	1.314	120.7	0.788	3.252	289.0	557.6	0.691	5.814	0.07	0.310	46.3	97.4	3.1	0.317
4- 960	4-1320	0.607	241.7	-18.5	0.99	1.503	106.8	1.203-4.470		329.3	481.2	0.908	---	0.35	0.775	159.9	110.4	3.0	0.765
4- 960	4-1340	0.568	240.4	-18.2	0.97	1.475	105.7	1.129-7.079		330.5	484.0	0.916	---	0.37	0.721	158.5	110.8	3.0	0.710
4- 960	4-1360	0.534	239.1	-17.9	0.94	1.451	104.6	1.06713.822		331.7	486.8	0.923	---	0.39	0.671	157.1	111.1	3.0	0.661
4- 960	4-1380	0.505	237.8	-17.6	0.92	1.431	103.6	1.01369.563		332.9	489.6	0.929	---	0.41	0.627	155.6	111.3	3.0	0.616
4- 960	4-1400	0.480	236.6	-17.3	0.88	1.414	102.8	0.96828.875		334.0	492.3	0.934	---	0.44	0.587	154.0	111.5	3.1	0.575
4- 960	4-1420	0.458	235.3	-17.0	0.85	1.399	102.0	0.92813.098		335.0	495.0	0.939	---	0.48	0.551	152.4	111.6	3.1	0.539
4- 960	4-1440	0.439	234.1	-16.8	0.81	1.386	101.3	0.894	8.930	336.0	497.6	0.943	---	0.52	0.518	150.6	111.7	3.1	0.505
4- 960	4-1460	0.422	233.0	-16.6	0.75	1.375	100.7	0.865	7.015	336.9	500.1	0.947	---	0.56	0.488	148.8	111.6	3.2	0.474
4- 960	4-1480	0.407	231.9	-16.5	0.69	1.366	100.1	0.840	5.922	337.8	502.6	0.950	---	0.62	0.461	146.9	111.5	3.2	0.446
4- 960	4-1500	0.395	230.9	-16.4	0.62	1.357	99.7	0.818	5.220	338.5	504.9	0.953	---	0.70	0.436	144.8	111.4	3.3	0.420
4- 960	4-1520	0.384	230.0	-16.5	0.52	1.350	99.2	0.798	4.735	339.2	507.3	0.955	---	0.79	0.414	142.7	111.1	3.4	0.396
4- 960	4-1540	0.374	229.1	-16.7	0.39	1.344	98.9	0.782	4.382	339.8	509.5	0.957	---	0.92	0.394	140.5	110.8	3.5	0.375
4- 960	4-1560	0.366	228.2	-17.1	0.22	1.338	98.6	0.767	4.115	340.3	511.7	0.958	---	1.09	0.375	138.3	110.4	3.6	0.355
4- 960	4-1580	0.359	227.4	-17.9	-0.04	1.333	98.3	0.754	3.908	340.7	513.7	0.960	---	1.35	0.358	135.9	109.8	3.9	0.336
4- 960	4-1600	0.354	226.4	-19.3	-0.47	1.329	98.1	0.743	3.744	341.0	515.7	0.961	---	1.77	0.343	133.5	109.2	4.3	0.320
4- 960	4-1620	0.349	225.2	-22.1	-1.28	1.326	97.9	0.734	3.612	341.3	517.7	0.961	---	2.58	0.329	131.0	108.5	5.0	0.304
4- 960	4-1640	0.351	222.5	-30.0	-3.46	1.322	97.8	0.726	3.505	341.5	519.5	0.962	---	4.76	0.317	128.4	107.6	7.0	0.291
4- 960	4-1660	0.659	143.6	-81.9	-28.34	1.320	97.7	0.718	3.417	341.7	521.3	0.963	---	29.64	0.306	125.7	102.6	25.2	0.325
4- 960	4-1680	0.374	235.0	10.3	7.99	1.317	97.6	0.712	3.343	341.7	523.1	0.963	---	-6.70	0.296	123.1	105.5	-3.2	0.268
4- 960	4-1700	0.347	231.0	-1.6	4.33	1.315	97.6	0.707	3.282	341.6	524.7	0.963	---	-3.04	0.288	120.3	104.6	0.0	0.256
4- 960	4-1720	0.341	230.0	-5.4	3.25	1.313	97.6	0.702	3.231	341.5	526.3	0.963	---	-1.97	0.280	117.6	103.5	1.0	0.246
4- 960	4-1740	0.338	229.7	-7.3	2.74	1.312	97.6	0.698	3.188	341.4	527.8	0.962	---	-1.45	0.274	114.9	102.3	1.5	0.237
4- 960	4-1760	0.336	229.7	-8.5	2.44	1.310	97.7	0.695	3.152	341.2	529.3	0.962	---	-1.15	0.268	112.1	101.0	1.8	0.230
4- 960	4-1780	0.336	229.9	-9.4	2.24	1.309	97.8	0.692	3.122	340.9	530.7	0.961	---	-0.95	0.263	109.4	99.7	2.0	0.223
4- 960	4-1800	0.336	230.2	-10.0	2.09	1.308	97.9	0.690	3.097	340.5	532.1	0.960	---	-0.81	0.259	106.7	98.3	2.1	0.218
4- 960	4-1820	0.336	230.7	-10.6	1.99	1.307	98.1	0.688	3.076	340.1	533.4	0.960	---	-0.71	0.256	104.0	96.9	2.2	0.213
4- 960	4-1840	0.337	231.2	-11.1	1.91	1.307	98.3	0.687	3.059	339.7	534.7	0.958	---	-0.63	0.254	101.4	95.5	2.3	0.209
4- 960	4-1860	0.338	231.9	-11.6	1.84	1.306	98.5	0.686	3.045	339.2	535.9	0.957	---	-0.57	0.252	98.8	94.1	2.4	0.206
4- 960	4-1880	0.340	232.6	-12.0	1.79	1.306	98.7	0.685	3.034	338.6	537.1	0.956	---	-0.52	0.250	96.3	92.7	2.4	0.204
4- 960	4-1900	0.342	233.3	-12.4	1.74	1.305	98.9	0.685	3.026	338.0	538.2	0.954	---	-0.47	0.250	93.9	91.4	2.5	0.202
4- 960	4-1920	0.344	234.2	-12.8	1.70	1.305	99.2	0.684	3.019	337.4	539.3	0.953	---	-0.44	0.249	91.6	90.2	2.5	0.201
4- 960	4-1940	0.347	235.1	-13.2	1.67	1.305	99.4	0.685	3.015	336.7	540.3	0.951	5.078	-0.41	0.249	89.3	89.0	2.6	0.200
4- 960	4-1960	0.350	236.0	-13.6	1.64	1.305	99.7	0.685	3.012	335.9	541.3	0.949	5.075	-0.38	0.250	87.1	87.9	2.6	0.200
4- 960	4-1980	0.354	237.0	-14.0	1.61	1.305	100.1	0.686	3.010	335.2	542.3	0.946	5.074	-0.36	0.250	85.0	87.0	2.6	0.200
4- 960	4-2000	0.358	238.0	-14.4	1.59	1.305	100.4	0.686	3.010	334.4	543.3	0.944	5.077	-0.34	0.251	82.9	86.1	2.6	0.201
4- 960	4-2020	0.362	239.1	-14.7	1.57	1.305	100.8	0.687	3.012	333.5	544.2	0.941	5.082	-0.32	0.253	81.0	85.3	2.7	0.203
4- 960	4-2040	0.367	240.2	-15.1	1.55	1.305	101.1	0.689	3.014	332.6	545.0	0.938	5.090	-0.30	0.254	79.1	84.6	2.7	0.204
4- 960	4-2060	0.372	241.3	-15.4	1.54	1.305	101.5	0.690	3.018	331.7	545.9	0.935	5.100	-0.29	0.256	77.3	84.1	2.7	0.206

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 960	4-2080	0.377	242.5	-15.8	1.52	1.305	101.9	0.692	3.022	330.7	546.7	0.932	5.112	-0.28	0.257	75.6	83.6	2.7	0.209
4- 960	4-2100	0.382	243.6	-16.1	1.51	1.305	102.3	0.693	3.027	329.7	547.4	0.928	5.126	-0.27	0.259	74.0	83.3	2.7	0.211
4- 960	4-2120	0.388	244.8	-16.5	1.49	1.305	102.8	0.695	3.033	328.7	548.2	0.925	5.141	-0.26	0.261	72.4	83.1	2.7	0.214
4- 960	4-2140	0.395	246.0	-16.8	1.48	1.306	103.2	0.697	3.040	327.6	548.9	0.921	5.158	-0.25	0.264	70.9	82.9	2.8	0.217
4- 960	4-2160	0.401	247.2	-17.1	1.47	1.306	103.7	0.699	3.047	326.5	549.6	0.916	5.177	-0.24	0.266	69.4	82.9	2.8	0.220
4- 960	4-2180	0.408	248.5	-17.4	1.46	1.306	104.2	0.702	3.055	325.4	550.3	0.912	5.197	-0.23	0.268	68.0	83.0	2.8	0.223
4- 960	4-2200	0.415	249.7	-17.7	1.45	1.307	104.7	0.704	3.063	324.2	550.9	0.907	5.219	-0.22	0.270	66.7	83.2	2.8	0.227
4- 960	4-2220	0.423	250.9	-18.0	1.44	1.307	105.2	0.706	3.072	323.1	551.5	0.902	5.242	-0.22	0.273	65.4	83.4	2.8	0.231
4- 960	4-2240	0.431	252.2	-18.2	1.43	1.307	105.7	0.709	3.081	321.9	552.1	0.896	5.266	-0.21	0.275	64.1	83.8	2.8	0.234
4- 960	4-2260	0.439	253.4	-18.5	1.42	1.308	106.2	0.712	3.091	320.6	552.7	0.890	5.291	-0.21	0.278	62.9	84.2	2.8	0.238
4- 960	4-2280	0.448	254.7	-18.7	1.41	1.308	106.8	0.715	3.101	319.3	553.2	0.884	5.317	-0.20	0.280	61.8	84.7	2.8	0.242
4- 960	4-2300	0.457	255.9	-18.9	1.41	1.309	107.4	0.718	3.111	318.1	553.7	0.878	5.345	-0.20	0.283	60.7	85.3	2.9	0.246
4- 960	4-2320	0.466	257.2	-19.2	1.40	1.309	108.0	0.721	3.122	316.7	554.2	0.871	5.373	-0.19	0.285	59.6	85.9	2.9	0.251
4- 960	4-2340	0.475	258.4	-19.4	1.39	1.310	108.6	0.724	3.133	315.4	554.7	0.864	5.402	-0.19	0.288	58.5	86.7	2.9	0.255
4- 960	4-2360	0.485	259.6	-19.6	1.39	1.310	109.2	0.727	3.145	314.0	555.1	0.857	5.432	-0.19	0.290	57.5	87.4	2.9	0.259
4- 960	4-2380	0.496	260.9	-19.7	1.38	1.310	109.8	0.731	3.156	312.6	555.5	0.849	5.463	-0.18	0.293	56.5	88.3	2.9	0.263
4- 960	4-2400	0.506	262.1	-19.9	1.37	1.311	110.4	0.734	3.168	311.2	555.9	0.841	5.495	-0.18	0.295	55.5	89.2	2.9	0.268
4- 960	4-2420	0.517	263.3	-20.1	1.37	1.311	111.1	0.738	3.180	309.7	556.3	0.833	5.528	-0.18	0.297	54.6	90.1	2.9	0.272
4- 960	4-2440	0.528	264.5	-20.2	1.36	1.312	111.8	0.742	3.193	308.3	556.7	0.824	5.561	-0.18	0.300	53.7	91.1	2.9	0.277
4- 960	4-2460	0.540	265.7	-20.3	1.35	1.312	112.4	0.746	3.205	306.8	557.0	0.815	5.595	-0.17	0.302	52.8	92.1	2.9	0.281
4- 960	4-2480	0.552	266.9	-20.5	1.35	1.313	113.1	0.750	3.218	305.3	557.3	0.805	5.630	-0.17	0.304	51.9	93.2	2.9	0.286
4- 960	4-2500	0.564	268.1	-20.6	1.34	1.313	113.8	0.754	3.231	303.7	557.6	0.795	5.666	-0.17	0.307	51.0	94.3	2.9	0.291
4- 960	4-2520	0.576	269.2	-20.7	1.34	1.314	114.6	0.758	3.244	302.2	557.9	0.785	5.703	-0.17	0.309	50.2	95.5	2.9	0.295
4- 960	4-2540	0.589	270.4	-20.8	1.33	1.314	115.3	0.762	3.257	300.6	558.1	0.774	5.740	-0.17	0.311	49.3	96.7	2.9	0.300
4- 960	4-2560	0.602	271.6	-20.8	1.33	1.315	116.1	0.767	3.270	299.0	558.3	0.763	5.778	-0.17	0.313	48.5	98.0	2.9	0.305
4- 970	4-1290	0.638	244.0	-19.4	0.79	1.567	104.4	1.393-2.372		335.3	474.6	0.932	---	0.60	0.894	161.7	110.7	3.1	0.880
4- 970	4-1310	0.589	242.5	-19.1	0.77	1.529	103.1	1.285-3.288		336.7	477.6	0.939	---	0.62	0.826	160.4	111.0	3.1	0.812
4- 970	4-1330	0.548	240.9	-18.7	0.74	1.497	102.0	1.196-4.816		338.1	480.5	0.945	---	0.64	0.765	159.2	111.4	3.1	0.751
4- 970	4-1350	0.512	239.2	-18.4	0.71	1.470	100.9	1.121-7.841		339.4	483.5	0.951	---	0.66	0.711	157.8	111.7	3.1	0.697
4- 970	4-1370	0.481	237.5	-18.0	0.67	1.447	99.9	1.05816.513		340.7	486.4	0.955	---	0.69	0.663	156.4	111.9	3.1	0.649
4- 970	4-1390	0.455	235.8	-17.7	0.64	1.427	99.0	1.00434.684		341.9	489.3	0.960	---	0.72	0.619	154.9	112.2	3.2	0.605
4- 970	4-1410	0.433	234.2	-17.4	0.60	1.411	98.3	0.95823.086		343.1	492.1	0.963	---	0.76	0.580	153.3	112.3	3.2	0.565
4- 970	4-1430	0.413	232.6	-17.1	0.56	1.396	97.5	0.91911.929		344.2	494.8	0.966	---	0.79	0.544	151.6	112.4	3.2	0.529
4- 970	4-1450	0.396	231.0	-16.8	0.51	1.384	96.9	0.885 8.443		345.3	497.5	0.969	---	0.84	0.512	149.8	112.4	3.3	0.496
4- 970	4-1470	0.382	229.6	-16.6	0.45	1.373	96.3	0.856	6.751	346.3	500.1	0.971	---	0.88	0.483	148.0	112.4	3.3	0.466
4- 970	4-1490	0.369	228.2	-16.4	0.39	1.364	95.8	0.831	5.759	347.1	502.6	0.973	---	0.94	0.456	146.1	112.2	3.4	0.438
4- 970	4-1510	0.358	226.9	-16.3	0.32	1.355	95.4	0.809	5.110	347.9	505.0	0.974	---	1.00	0.432	144.0	112.0	3.5	0.413
4- 970	4-1530	0.349	225.8	-16.3	0.24	1.348	95.0	0.791	4.657	348.6	507.4	0.975	---	1.07	0.410	141.9	111.8	3.5	0.390
4- 970	4-1550	0.341	224.7	-16.3	0.15	1.342	94.7	0.774	4.324	349.3	509.6	0.976	---	1.16	0.390	139.7	111.4	3.7	0.368
4- 970	4-1570	0.334	223.7	-16.5	0.04	1.337	94.4	0.760	4.072	349.8	511.8	0.977	---	1.26	0.372	137.4	110.9	3.8	0.349
4- 970	4-1590	0.329	222.9	-16.8	-0.09	1.332	94.2	0.748	3.875	350.2	513.9	0.978	---	1.39	0.356	135.0	110.4	3.9	0.331
4- 970	4-1610	0.324	222.1	-17.3	-0.25	1.328	94.0	0.737	3.719	350.6	515.9	0.978	---	1.54	0.341	132.6	109.7	4.1	0.314
4- 970	4-1630	0.319	221.4	-17.9	-0.44	1.325	93.8	0.728	3.594	350.9	517.9	0.979	---	1.74	0.328	130.1	109.0	4.4	0.299
4- 970	4-1650	0.316	220.7	-18.9	-0.70	1.322	93.7	0.720	3.491	351.1	519.7	0.979	---	1.99	0.316	127.5	108.2	4.7	0.285
4- 970	4-1670	0.313	220.1	-20.2	-1.05	1.319	93.7	0.713	3.406	351.2	521.5	0.979	---	2.33	0.305	124.9	107.2	5.1	0.273
4- 970	4-1690	0.312	219.4	-22.2	-1.54	1.316	93.6	0.707	3.336	351.2	523.3	0.979	---	2.82	0.296	122.2	106.2	5.6	0.262
4- 970	4-1710	0.312	218.4	-25.3	-2.30	1.314	93.6	0.701	3.277	351.2	524.9	0.979	---	3.57	0.287	119.5	105.1	6.5	0.252
4- 970	4-1730	0.315	216.6	-30.6	-3.62	1.313	93.7	0.697	3.229	351.1	526.5	0.979	---	4.88	0.280	116.8	103.9	8.0	0.244
4- 970	4-1750	0.332	212.5	-41.2	-6.46	1.311	93.7	0.693	3.188	350.9	528.0	0.979	---	7.72	0.274	114.1	102.5	11.1	0.238
4- 970	4-1770	0.458	186.8	-68.7	-17.07	1.310	93.8	0.690	3.153	350.7	529.5	0.979	---	18.32	0.269	111.3	100.0	21.3	0.250
4- 970	4-1790	0.804	274.1	59.9	37.69	1.309	94.0	0.687	3.125	350.2	530.9	0.978	---	-36.45	0.264	108.7	94.9	-26.3	0.304
4- 970	4-1810	0.377	236.9	23.1	11.12	1.308	94.1	0.685	3.101	350.0	532.3	0.978	---	-9.88	0.261	106.0	98.2	-8.1	0.223
4- 970	4-1830	0.334	232.5	9.8	6.87	1.307	94.2	0.683	3.081	349.6	533.6	0.977	---	-5.64	0.258	103.4	97.1	-3.6	0.213
4- 970	4-1850	0.322	231.2	3.4	5.17	1.306	94.4	0.681	3.065	349.1	534.8	0.977	---	-3.94	0.255	100.8	95.8	-1.7	0.208
4- 970	4-1870	0.317	230.9	-0.3	4.25	1.306	94.6	0.680	3.052	348.6	536.0	0.976	---	-3.03	0.254	98.3	94.5	-0.7	0.204
4- 970	4-1890	0.315	231.1	-2.8	3.67	1.305	94.8	0.679	3.041	348.1	537.2	0.975	---	-2.46	0.253	95.9	93.2	0.0	0.202
4- 970	4-1910	0.315	231.6	-4.7	3.28	1.305	95.1	0.679	3.033	347.5	538.3	0.974	---	-2.07	0.252	93.5	91.9	0.5	0.200
4- 970	4-1930	0.315	232.3	-6.1	2.99	1.305	95.3	0.679	3.028	346.8	539.4	0.973	---	-1.79	0.252	91.2	90.7	0.8	0.199
4- 970	4-1950	0.316	233.1	-7.3	2.77	1.305	95.6	0.678	3.024	346.1	540.5	0.972	5.075	-1.57	0.252	89.0	89.6	1.1	0.198
4- 970	4-1970	0.318	234.1	-8.4	2.60	1.305	95.9	0.679	3.021	345.4	541.5	0.971	5.072	-1.41	0.252	86.9	88.5	1.3	0.198
4- 970	4-1990	0.320	235.1	-9.3	2.46	1.305	96.2	0.679	3.021	344.6	542.4	0.970	5.072	-1.27	0.253	84.9	87.6	1.4	0.198
4- 970	4-2010	0.322	236.2	-10.1	2.34	1.305	96.6	0.680	3.021	343.8	543.4	0.968	5.074	-1.16	0.254	82.9	86.7	1.6	0.199
4- 970	4-2030	0.325	237.4	-10.9	2.24	1.305	96.9	0.680	3.023	342.9	544.3	0.966	5.080	-1.07	0.255	81.1	86.0	1.7	0.200
4- 970	4-2050	0.328	238.6	-11.6	2.16	1.305	97.3	0.681	3.026	342.0	545.1	0.964	5.087	-0.99	0.257	79.3	85.3	1.8	0.202
4- 970	4-2070	0.332	239.9	-12.2	2.09	1.305	97.7	0.682	3.030	341.1	546.0	0.962	5.097	-0.93	0.259	77.5	84.8	1.9	0.204
4- 970	4-2090	0.336	241.2	-12.9	2.02	1.305	98.1	0.684	3.034	340.1	546.8	0.960	5.109	-0.87	0.260	75.9	84.4	2.0	0.206
4- 970	4-2110	0.340	242.5	-13.4	1.97	1.305	98.5	0.685	3.040	339.1	547.6	0.958	5.122	-0.82	0.262	74.3	84.1	2.1	0.208
4- 970	4-2130	0.345	243.9	-14.0	1.92	1.306	98.9	0.686	3.046	338.1	548.3	0.955	5.137	-0.77	0.265	72.8	83.9	2.1	0.211
4- 970	4-2150	0.350	245.3	-14.5	1.87	1.306	99.3	0.688	3.053	337.0	549.0	0.952	5.154	-0.74	0.267	71.4	83.8	2.2	0.213
4- 970	4-2170	0.355	246.7	-15.0	1.83	1.306	99.8	0.690	3.061	336.0	549.7	0.949	5.172	-0.70	0.269	70.0	83.7	2.2	0.216
4- 970	4-2190	0.361	248.2	-15.5	1.79	1.307	100.3	0.692	3.069	334.8	550.4	0.946	5.192	-0.67	0.271	68.6	83.8	2.3	0.220
4- 970	4-2210	0.367	249.6	-15.9	1.76	1.307	100.7	0.694	3.077	333.7	551.1	0.942	5.213	-0.64	0.274	67.4	84.0	2.3	0.223
4- 970	4-2230	0.373	251.1	-16.3	1.72	1.307	101.2	0.696	3.086	332.5	551.7	0.938	5.235	-0.62	0.276	66.1	84.3	2.4	0.226
4- 970	4-2250	0.379	252.5	-16.7	1.69	1.308	101.7	0.698	3.096	331.3	552.3	0.934	5.258	-0.59	0.278	64.9	84.6	2.4	0.230
4- 970	4-2270	0.386	254.0	-17.1	1.67	1.308	102.3	0.701	3.106	330.1	552.9	0.930	5.282	-0.57	0.281	63.8	85.0	2.4	0.233
4- 970	4-2290	0.394	255.4	-17.4	1.64	1.308	102.8	0.703	3.116	328.8	553.4	0.925	5.307	-0.56	0.283	62.7	85.5	2.5	0.237
4- 970	4-2310	0.401	256.9	-17.7	1.62	1.309	103.3	0.706	3.127	327.6	553.9	0.920	5.333	-0.54	0.286	61.6	86.1	2.5	0.241
4- 970	4-2330	0.409	258.4	-18.0	1.59	1.309	103.9	0.708	3.138	326.3	554.5	0.915	5.360	-0.52	0.288	60.6	86.8	2.5	0.245
4- 970	4-2350	0.418	259.8	-18.3	1.57	1.310	104.5	0.711	3.149	324.9	554.9	0.910	5.389	-0.51	0.291	59.6	87.5	2.6	0.249
4- 970	4-2370	0.426	261.3	-18.6	1.55	1.310	105.1	0.714	3.161	323.6	555.4	0.904	5.417	-0.50	0.293	58.7	88.2	2.6	0.253

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 990	4-1350	0.469	231.8	-17.2	0.50	1.480	91.5	1.161-	6.118	357.2	480.9	0.986	---	0.96	0.736	158.0	112.7	3.2	0.719
4- 990	4-1370	0.442	229.2	-16.6	0.47	1.455	90.7	1.08811.	186	358.7	484.1	0.986	---	0.98	0.684	156.6	112.9	3.2	0.667
4- 990	4-1390	0.420	226.7	-16.0	0.43	1.434	89.9	1.02736.	372	0.2	127.2	---	---	1.00	0.638	155.1	113.1	3.3	0.621
4- 990	4-1410	0.402	224.3	-15.4	0.40	1.415	89.2	0.97640.	758	1.6	130.2	---	---	1.02	0.596	153.6	113.2	3.3	0.579
4- 990	4-1430	0.386	222.0	-14.8	0.36	1.400	88.6	0.93214.	581	2.9	133.2	---	---	1.05	0.558	152.0	113.2	3.3	0.541
4- 990	4-1450	0.374	219.9	-14.3	0.32	1.386	88.0	0.896	9.433	4.2	136.0	---	---	1.07	0.524	150.2	113.2	3.4	0.506
4- 990	4-1470	0.363	217.9	-13.8	0.28	1.375	87.5	0.864	7.248	5.3	138.8	---	---	1.10	0.493	148.4	113.1	3.4	0.475
4- 990	4-1490	0.354	216.1	-13.4	0.23	1.365	87.1	0.837	6.048	6.3	141.5	---	---	1.13	0.465	146.5	113.0	3.5	0.446
4- 990	4-1510	0.347	214.4	-13.0	0.18	1.356	86.7	0.814	5.294	7.3	144.0	---	---	1.17	0.440	144.5	112.7	3.5	0.420
4- 990	4-1530	0.340	213.0	-12.7	0.13	1.349	86.4	0.795	4.781	8.1	146.5	---	---	1.20	0.417	142.4	112.4	3.6	0.396
4- 990	4-1550	0.335	211.7	-12.5	0.08	1.342	86.1	0.778	4.412	8.8	148.9	---	---	1.24	0.396	140.2	112.0	3.7	0.374
4- 990	4-1570	0.331	210.6	-12.4	0.02	1.336	85.9	0.763	4.135	9.4	151.1	---	---	1.29	0.377	138.0	111.6	3.8	0.354
4- 990	4-1590	0.327	209.7	-12.3	-0.04	1.332	85.7	0.750	3.923	10.0	153.3	---	---	1.34	0.360	135.6	111.0	3.9	0.335
4- 990	4-1610	0.323	208.9	-12.3	-0.11	1.327	85.6	0.739	3.755	10.4	155.4	---	---	1.39	0.345	133.2	110.3	4.0	0.318
4- 990	4-1630	0.320	208.2	-12.4	-0.18	1.324	85.5	0.730	3.621	10.7	157.4	---	---	1.45	0.331	130.7	109.6	4.1	0.303
4- 990	4-1650	0.317	207.7	-12.6	-0.26	1.320	85.4	0.721	3.512	10.9	159.3	---	---	1.52	0.318	128.1	108.8	4.2	0.289
4- 990	4-1670	0.315	207.3	-12.8	-0.35	1.317	85.4	0.714	3.423	11.1	161.1	---	---	1.60	0.307	125.5	107.8	4.4	0.276
4- 990	4-1690	0.312	207.1	-13.2	-0.45	1.315	85.4	0.708	3.350	11.1	162.9	---	---	1.69	0.298	122.8	106.8	4.5	0.264
4- 990	4-1710	0.310	206.9	-13.6	-0.56	1.313	85.4	0.702	3.289	11.1	164.5	---	---	1.78	0.289	120.1	105.8	4.7	0.254
4- 990	4-1730	0.308	206.8	-14.2	-0.69	1.311	85.5	0.698	3.238	11.0	166.1	---	---	1.90	0.282	117.4	104.6	4.9	0.244
4- 990	4-1750	0.306	206.9	-14.9	-0.83	1.310	85.5	0.694	3.196	10.9	167.7	---	---	2.03	0.275	114.7	103.4	5.1	0.236
4- 990	4-1770	0.305	207.0	-15.7	-0.99	1.308	85.7	0.690	3.160	10.7	169.1	---	---	2.18	0.270	112.0	102.1	5.4	0.229
4- 990	4-1790	0.303	207.1	-16.6	-1.18	1.307	85.8	0.687	3.131	10.4	170.6	---	---	2.36	0.266	109.3	100.8	5.7	0.222
4- 990	4-1810	0.302	207.4	-17.8	-1.41	1.306	85.9	0.684	3.106	10.0	171.9	---	---	2.57	0.262	106.6	99.5	6.0	0.217
4- 990	4-1830	0.301	207.6	-19.2	-1.68	1.305	86.1	0.682	3.086	9.6	173.2	---	---	2.83	0.259	104.0	98.1	6.4	0.212
4- 990	4-1850	0.300	207.8	-20.8	-2.02	1.305	86.3	0.680	3.070	9.1	174.5	---	---	3.15	0.256	101.5	96.8	6.9	0.208
4- 990	4-1870	0.300	208.0	-22.9	-2.44	1.304	86.5	0.679	3.057	8.6	175.7	---	---	3.57	0.255	99.0	95.4	7.4	0.205
4- 990	4-1890	0.301	208.0	-25.6	-3.00	1.304	86.7	0.678	3.047	8.1	176.8	---	---	4.11	0.254	96.6	94.1	8.2	0.203
4- 990	4-1910	0.303	207.7	-28.9	-3.75	1.303	87.0	0.677	3.039	7.5	178.0	---	---	4.85	0.253	94.2	92.9	9.1	0.201
4- 990	4-1930	0.308	206.9	-33.5	-4.84	1.303	87.3	0.676	3.033	6.8	179.0	---	---	5.92	0.253	92.0	91.7	10.5	0.201
4- 990	4-1950	0.320	204.7	-40.1	-6.55	1.303	87.5	0.675	3.029	6.1	180.1	---	5.075	7.62	0.253	89.8	90.6	12.6	0.202
4- 990	4-1970	0.349	198.9	-50.3	-9.63	1.303	87.8	0.675	3.027	5.4	181.1	---	5.070	10.70	0.254	87.7	89.5	16.3	0.206
4- 990	4-1990	0.444	176.2	-65.9	-16.81	1.303	88.1	0.675	3.027	4.7	182.1	---	5.069	17.86	0.254	85.7	88.6	23.5	0.223
4- 990	4-2010	0.957	82.6	-59.8	-46.79	1.303	88.4	0.675	3.028	4.1	183.0	---	5.070	47.83	0.256	83.8	88.6	37.0	0.338
4- 990	4-2030	0.813	267.7	67.0	38.62	1.303	89.0	0.675	3.030	2.6	183.9	---	5.074	-37.60	0.257	82.0	88.3	-28.7	0.294
4- 990	4-2050	0.445	242.0	39.2	16.93	1.303	89.3	0.675	3.033	1.9	184.8	---	5.080	-15.91	0.258	80.3	86.9	-15.5	0.220
4- 990	4-2070	0.363	237.5	24.1	10.92	1.303	89.6	0.675	3.037	1.0	185.6	---	5.089	-9.92	0.260	78.6	86.1	-9.1	0.209
4- 990	4-2090	0.333	236.2	15.0	8.18	1.304	90.0	0.676	3.043	0.0	186.4	---	5.099	-7.19	0.262	77.0	85.6	-5.9	0.206
4- 990	4-2110	0.319	236.2	9.0	6.61	1.304	90.4	0.676	3.048	359.1	547.2	0.986	5.111	-5.64	0.264	75.5	85.3	-3.9	0.206
4- 990	4-2130	0.312	236.8	4.7	5.60	1.304	90.8	0.677	3.055	358.1	548.0	0.986	5.124	-4.63	0.266	74.0	85.0	-2.7	0.208
4- 990	4-2150	0.309	237.8	1.5	4.89	1.304	91.2	0.678	3.062	357.0	548.7	0.986	5.139	-3.94	0.269	72.7	84.9	-1.8	0.210
4- 990	4-2170	0.307	239.0	-1.1	4.36	1.305	91.6	0.679	3.070	356.0	549.4	0.985	5.155	-3.42	0.271	71.3	84.8	-1.1	0.212
4- 990	4-2190	0.306	240.4	-3.2	3.96	1.305	92.1	0.680	3.079	354.9	550.1	0.985	5.173	-3.03	0.273	70.1	84.9	-0.6	0.214
4- 990	4-2210	0.307	242.0	-5.0	3.63	1.305	92.5	0.681	3.088	353.7	550.8	0.984	5.192	-2.72	0.276	68.9	85.0	-0.2	0.217
4- 990	4-2230	0.308	243.7	-6.6	3.37	1.306	93.0	0.683	3.097	352.6	551.5	0.983	5.212	-2.47	0.278	67.7	85.2	0.2	0.220
4- 990	4-2250	0.310	245.4	-8.0	3.15	1.306	93.5	0.684	3.107	351.4	552.1	0.982	5.233	-2.26	0.281	66.6	85.5	0.4	0.223
4- 990	4-2270	0.312	247.2	-9.2	2.96	1.307	94.0	0.685	3.118	350.2	552.7	0.981	5.255	-2.09	0.283	65.5	85.9	0.7	0.226
4- 990	4-2290	0.315	249.1	-10.3	2.80	1.307	94.5	0.687	3.128	349.0	553.3	0.979	5.278	-1.94	0.286	64.5	86.4	0.9	0.229
4- 990	4-2310	0.318	251.0	-11.2	2.66	1.307	95.0	0.689	3.139	347.8	553.8	0.977	5.302	-1.82	0.288	63.5	86.9	1.0	0.232
4- 990	4-2330	0.322	252.9	-12.1	2.54	1.308	95.5	0.690	3.151	346.5	554.4	0.975	5.326	-1.71	0.291	62.6	87.5	1.2	0.235
4- 990	4-2350	0.327	254.8	-12.9	2.43	1.308	96.0	0.692	3.162	345.2	554.9	0.973	5.352	-1.61	0.293	61.7	88.1	1.3	0.238
4- 990	4-2370	0.331	256.8	-13.7	2.33	1.309	96.6	0.694	3.174	343.9	555.4	0.970	5.378	-1.53	0.295	60.8	88.9	1.4	0.242
4- 990	4-2390	0.336	258.8	-14.3	2.25	1.309	97.1	0.696	3.186	342.6	555.9	0.968	5.405	-1.45	0.298	60.0	89.6	1.5	0.245
4- 990	4-2410	0.342	260.7	-14.9	2.17	1.310	97.7	0.698	3.199	341.2	556.4	0.965	5.433	-1.39	0.300	59.2	90.5	1.6	0.249
4- 990	4-2430	0.348	262.7	-15.4	2.09	1.310	98.3	0.701	3.211	339.9	556.8	0.961	5.461	-1.33	0.303	58.4	91.3	1.7	0.252
4- 990	4-2450	0.354	264.7	-15.9	2.03	1.311	98.9	0.703	3.224	338.5	557.3	0.958	5.490	-1.27	0.305	57.6	92.2	1.8	0.256
4- 990	4-2470	0.361	266.6	-16.4	1.96	1.311	99.5	0.705	3.237	337.1	557.7	0.954	5.520	-1.23	0.307	56.8	93.2	1.8	0.259
4- 990	4-2490	0.368	268.5	-16.7	1.91	1.312	100.1	0.708	3.250	335.6	558.1	0.950	5.551	-1.18	0.310	56.1	94.2	1.9	0.263
4- 990	4-2510	0.376	270.4	-17.1	1.85	1.312	100.7	0.710	3.264	334.2	558.5	0.945	5.582	-1.14	0.312	55.4	95.3	2.0	0.267
4- 990	4-2530	0.384	272.3	-17.4	1.80	1.313	101.3	0.713	3.277	332.7	558.8	0.941	5.613	-1.11	0.314	54.7	96.4	2.0	0.270
4- 990	4-2550	0.392	274.1	-17.6	1.75	1.313	101.9	0.716	3.291	331.2	559.2	0.936	5.646	-1.07	0.316	54.0	97.5	2.0	0.274
4- 990	4-2570	0.401	275.9	-17.9	1.71	1.313	102.6	0.719	3.304	329.7	559.5	0.930	5.678	-1.05	0.318	53.4	98.6	2.1	0.278
4- 990	4-2590	0.410	277.7	-18.0	1.67	1.314	103.3	0.721	3.318	328.2	559.8	0.924	5.712	-1.02	0.320	52.7	99.8	2.1	0.281
4-1000	4-1280	0.611	235.9	-18.2	0.56	1.622	89.5	1.601-	1.644	0.7	108.8	---	---	1.02	0.992	162.3	112.0	3.2	0.973
4-1000	4-1300	0.562	233.0	-17.6	0.53	1.573	88.5	1.446-	2.217	2.5	112.1	---	---	1.03	0.910	161.2	112.3	3.2	0.891
4-1000	4-1320	0.522	230.1	-16.9	0.50	1.532	87.6	1.320-	3.083	4.2	115.5	---	---	1.04	0.838	160.1	112.6	3.2	0.820
4-1000	4-1340	0.490	227.2	-16.2	0.47	1.498	86.7	1.218-	4.522	6.0	118.8	---	---	1.05	0.774	158.8	112.8	3.2	0.757
4-1000	4-1360	0.464	224.3	-15.4	0.44	1.470	85.9	1.134-	7.345	7.7	122.1	---	---	1.06	0.717	157.5	113.0	3.2	0.701
4-1000	4-1380	0.442	221.6	-14.7	0.40	1.446	85.2	1.06415.	250	9.3	125.4	---	---	1.08	0.667	156.1	113.1	3.3	0.650
4-1000	4-1400	0.425	219.0	-14.0	0.37	1.425	84.6	1.00749.	616	10.9	128.5	---	---	1.09	0.621	154.7	113.2	3.3	0.605
4-1000	4-1420	0.411	216.6	-13.3	0.33	1.408	84.0	0.95823.	342	12.3	131.6	---	---	1.11	0.581	153.1	113.3	3.3	0.564
4-1000	4-1440	0.400	214.3	-12.7	0.30	1.393	83.4	0.91711.	797	13.7	134.6	---	---	1.13	0.544	151.4	113.2	3.4	0.527
4-1000	4-1460	0.390	212.3	-12.1	0.26	1.380	83.0	0.883	8.307	15.0	137.5	---	---	1.15	0.511	149.7	113.2	3.4	0.494
4-1000	4-1480	0.383	210.5	-11.6	0.22	1.369	82.6	0.854	6.633	16.1	140.3	---	---	1.17	0.480	147.8	113.0	3.5	0.463
4-1000	4-1500	0.376	208.8	-11.1	0.18	1.359	82.2	0.829	5.657	17.1	143.0	---	---	1.19	0.453	145.9	112.8	3.5	0.435
4-1000	4-1520	0.371	207.4	-10.8	0.14	1.351	81.9	0.808	5.023	18.1	145.5	---	---	1.22	0.428	143.8	112.5	3.6	0.410
4-1000	4-1540	0.368	206.1	-10.5	0.09	1.344	81.7	0.789	4.580	18.9	148.0	---	---	1.25	0.406	141.7	112.1	3.7	0.387
4-1000	4-1560	0.362	205.1	-10.2	0.04	1.338	81.5	0.774	4.257	19.6	150.3	---	---	1.28	0.386	139.5	111.6	3.7	0.365
4-1000	4-1580	0.359	204.2	-10.1	-0.01	1.332	81.3	0.760	4.013	20.1	152.6	---	---	1.31	0.367	137.1	111.1	3.8	0.346
4-1000	4-1600	0.356	203.4	-10.0	-0.06	1.328	81.2	0.749	3.823	20.6	154.7	---	---	1.35	0.351	134.7	110.4	3.9	0.328

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1000	4-1620	0.353	202.8	-10.0	-0.12	1.324	81.1	0.738	3.672	21.0	156.7	---	---	1.39	0.336	132.2	109.7	4.0	0.312
4-1000	4-1640	0.350	202.3	-10.1	-0.18	1.320	81.1	0.730	3.551	21.2	158.7	---	---	1.43	0.323	129.7	108.9	4.1	0.297
4-1000	4-1660	0.348	202.0	-10.2	-0.24	1.317	81.0	0.722	3.453	21.4	160.5	---	---	1.48	0.311	127.0	108.0	4.2	0.283
4-1000	4-1680	0.345	201.7	-10.4	-0.31	1.314	81.0	0.715	3.372	21.5	162.3	---	---	1.53	0.301	124.4	107.0	4.3	0.271
4-1000	4-1700	0.343	201.6	-10.6	-0.38	1.312	81.1	0.710	3.306	21.5	164.0	---	---	1.59	0.291	121.6	106.0	4.5	0.260
4-1000	4-1720	0.340	201.6	-11.0	-0.46	1.310	81.2	0.705	3.250	21.5	165.6	---	---	1.65	0.283	118.9	104.8	4.6	0.250
4-1000	4-1740	0.338	201.6	-11.3	-0.55	1.308	81.2	0.700	3.205	21.3	167.1	---	---	1.72	0.277	116.2	103.7	4.8	0.241
4-1000	4-1760	0.336	201.8	-11.8	-0.64	1.307	81.4	0.696	3.166	21.1	168.6	---	---	1.80	0.271	113.4	102.4	4.9	0.234
4-1000	4-1780	0.333	202.0	-12.3	-0.75	1.306	81.5	0.693	3.135	20.8	170.0	---	---	1.89	0.266	110.7	101.1	5.1	0.227
4-1000	4-1800	0.331	202.3	-13.0	-0.86	1.305	81.7	0.690	3.108	20.5	171.4	---	---	1.99	0.262	108.0	99.8	5.3	0.221
4-1000	4-1820	0.329	202.7	-13.7	-0.99	1.304	81.8	0.688	3.087	20.1	172.7	---	---	2.11	0.258	105.3	98.5	5.5	0.215
4-1000	4-1840	0.327	203.1	-14.5	-1.14	1.303	82.0	0.686	3.069	19.6	174.0	---	---	2.24	0.256	102.7	97.2	5.7	0.211
4-1000	4-1860	0.324	203.6	-15.4	-1.31	1.303	82.3	0.684	3.055	19.1	175.2	---	---	2.39	0.254	100.2	95.9	5.9	0.207
4-1000	4-1880	0.322	204.1	-16.5	-1.50	1.302	82.5	0.682	3.044	18.5	176.4	---	---	2.56	0.253	97.7	94.6	6.2	0.204
4-1000	4-1900	0.320	204.6	-17.7	-1.72	1.302	82.8	0.681	3.035	17.9	177.5	---	---	2.77	0.252	95.4	93.3	6.5	0.202
4-1000	4-1920	0.318	205.2	-19.1	-1.98	1.302	83.0	0.680	3.029	17.3	178.6	---	---	3.01	0.251	93.1	92.2	6.8	0.200
4-1000	4-1940	0.317	205.7	-20.7	-2.29	1.301	83.3	0.679	3.025	16.6	179.6	---	---	3.31	0.252	90.9	91.1	7.2	0.199
4-1000	4-1960	0.316	206.2	-22.6	-2.67	1.301	83.6	0.678	3.023	15.8	180.6	---	5.072	3.68	0.252	88.7	90.0	7.7	0.199
4-1000	4-1980	0.315	206.6	-25.0	-3.16	1.301	83.9	0.678	3.022	15.1	181.6	---	5.069	4.15	0.253	86.7	89.1	8.3	0.199
4-1000	4-2000	0.316	206.8	-27.8	-3.78	1.301	84.2	0.677	3.023	14.3	182.5	---	5.069	4.75	0.254	84.8	88.2	9.1	0.199
4-1000	4-2020	0.318	206.6	-31.5	-4.62	1.301	84.6	0.677	3.025	13.4	183.4	---	5.072	5.58	0.255	82.9	87.5	10.1	0.201
4-1000	4-2040	0.324	205.8	-36.4	-5.81	1.301	84.9	0.677	3.028	12.6	184.3	---	5.077	6.76	0.257	81.1	86.8	11.5	0.203
4-1000	4-2060	0.337	203.4	-43.1	-7.64	1.302	85.3	0.677	3.032	11.7	185.2	---	5.084	8.58	0.259	79.4	86.3	13.6	0.206
4-1000	4-2080	0.369	197.0	-52.8	-10.83	1.302	85.7	0.677	3.037	10.7	186.0	---	5.093	11.74	0.261	77.8	86.0	17.1	0.213
4-1000	4-2100	0.461	174.1	-66.0	-17.65	1.302	86.0	0.677	3.043	9.8	186.8	---	5.103	18.55	0.263	76.3	86.1	23.7	0.231
4-1000	4-2120	0.844	97.3	-62.6	-40.29	1.302	86.4	0.678	3.050	9.0	187.6	---	5.116	41.18	0.265	74.8	88.7	35.3	0.315
4-1000	4-2140	1.116	300.0	79.1	55.93	1.303	87.1	0.678	3.057	7.1	188.3	---	5.129	-55.06	0.267	73.5	90.9	-30.8	0.377
4-1000	4-2160	0.532	246.3	48.5	22.32	1.303	87.4	0.678	3.065	6.4	189.0	---	5.144	-21.46	0.269	72.2	86.5	-19.5	0.245
4-1000	4-2180	0.401	241.1	30.8	13.67	1.303	87.8	0.679	3.074	5.4	189.7	---	5.161	-12.83	0.272	70.9	85.6	-11.6	0.225
4-1000	4-2200	0.354	239.7	19.9	9.94	1.304	88.3	0.680	3.083	4.3	190.4	---	5.179	-9.11	0.274	69.7	85.5	-7.6	0.221
4-1000	4-2220	0.332	239.7	12.7	7.87	1.304	88.7	0.681	3.093	3.2	191.1	---	5.198	-7.06	0.277	68.5	85.5	-5.2	0.221
4-1000	4-2240	0.321	240.5	7.6	6.55	1.305	89.2	0.682	3.103	2.0	191.7	---	5.217	-5.76	0.279	67.4	85.7	-3.6	0.222
4-1000	4-2260	0.314	241.6	3.7	5.65	1.305	89.7	0.683	3.113	0.8	192.3	---	5.238	-4.87	0.282	66.4	86.0	-2.5	0.224
4-1000	4-2280	0.310	243.1	0.6	4.98	1.305	90.1	0.684	3.124	359.6	552.9	0.988	5.260	-4.21	0.284	65.4	86.4	-1.7	0.227
4-1000	4-2300	0.308	244.7	-1.9	4.47	1.306	90.6	0.685	3.135	358.4	553.5	0.988	5.282	-3.72	0.287	64.4	86.9	-1.1	0.229
4-1000	4-2320	0.308	246.5	-3.9	4.06	1.306	91.2	0.686	3.147	357.2	554.1	0.988	5.306	-3.33	0.290	63.5	87.4	-0.7	0.232
4-1000	4-2340	0.308	248.4	-5.7	3.74	1.307	91.7	0.687	3.159	355.9	554.6	0.987	5.330	-3.02	0.292	62.6	88.1	-0.3	0.235
4-1000	4-2360	0.309	250.4	-7.3	3.46	1.307	92.2	0.689	3.171	354.6	555.1	0.986	5.355	-2.76	0.295	61.8	88.7	0.1	0.238
4-1000	4-2380	0.310	252.4	-8.6	3.23	1.308	92.7	0.690	3.183	353.3	555.6	0.985	5.381	-2.55	0.297	60.9	89.5	0.3	0.241
4-1000	4-2400	0.313	254.5	-9.8	3.03	1.308	93.3	0.692	3.196	352.0	556.1	0.984	5.407	-2.36	0.300	60.2	90.2	0.6	0.244
4-1000	4-2420	0.315	256.7	-10.9	2.86	1.309	93.8	0.694	3.208	350.6	556.6	0.983	5.434	-2.21	0.302	59.4	91.1	0.7	0.248
4-1000	4-2440	0.319	258.9	-11.8	2.71	1.309	94.4	0.695	3.221	349.3	557.1	0.981	5.462	-2.07	0.304	58.7	92.0	0.9	0.251
4-1000	4-2460	0.323	261.1	-12.7	2.58	1.310	95.0	0.697	3.234	347.9	557.5	0.979	5.490	-1.96	0.307	57.9	92.9	1.1	0.254
4-1000	4-2480	0.327	263.3	-13.4	2.46	1.310	95.5	0.699	3.248	346.5	557.9	0.977	5.519	-1.85	0.309	57.2	93.9	1.2	0.257
4-1000	4-2500	0.332	265.5	-14.1	2.35	1.310	96.1	0.701	3.261	345.1	558.4	0.974	5.548	-1.76	0.311	56.6	94.9	1.3	0.261
4-1000	4-2520	0.337	267.7	-14.7	2.25	1.311	96.7	0.703	3.275	343.7	558.8	0.972	5.578	-1.68	0.314	55.9	95.9	1.4	0.264
4-1000	4-2540	0.343	269.8	-15.2	2.16	1.311	97.4	0.705	3.289	342.2	559.1	0.969	5.609	-1.61	0.316	55.3	97.0	1.5	0.267
4-1000	4-2560	0.349	272.0	-15.7	2.08	1.312	98.0	0.708	3.303	340.7	559.5	0.965	5.640	-1.54	0.318	54.6	98.1	1.6	0.271
4-1000	4-2580	0.356	274.1	-16.1	2.01	1.312	98.6	0.710	3.317	339.2	559.8	0.962	5.672	-1.49	0.320	54.0	99.3	1.6	0.274
4-1000	4-2600	0.363	276.2	-16.4	1.94	1.313	99.2	0.712	3.331	337.7	560.2	0.958	5.704	-1.43	0.322	53.4	100.5	1.7	0.278
4-1010	4-1290	0.610	228.8	-16.7	0.52	1.604	83.1	1.541-1.808		11.4	110.2	---	---	1.12	0.964	162.1	112.3	3.2	0.946
4-1010	4-1310	0.568	225.7	-15.8	0.49	1.557	82.3	1.394-2.473		13.3	113.7	---	---	1.12	0.884	161.0	112.5	3.2	0.867
4-1010	4-1330	0.535	222.6	-15.0	0.46	1.518	81.5	1.276-3.517		15.2	117.2	---	---	1.13	0.814	159.8	112.7	3.2	0.797
4-1010	4-1350	0.509	219.7	-14.2	0.43	1.485	80.8	1.180-5.358		17.0	120.6	---	---	1.14	0.752	158.6	112.9	3.3	0.736
4-1010	4-1370	0.488	217.0	-13.4	0.39	1.458	80.1	1.102-9.421		18.8	124.0	---	---	1.15	0.696	157.2	113.0	3.3	0.682
4-1010	4-1390	0.471	214.4	-12.6	0.36	1.435	79.5	1.03825.399		20.5	127.4	---	---	1.15	0.647	155.8	113.1	3.3	0.633
4-1010	4-1410	0.458	212.0	-11.9	0.33	1.415	79.0	0.98461.125		22.2	130.6	---	---	1.17	0.603	154.3	113.1	3.3	0.589
4-1010	4-1430	0.448	209.9	-11.3	0.29	1.399	78.5	0.94015.808		23.7	133.7	---	---	1.18	0.563	152.7	113.0	3.4	0.550
4-1010	4-1450	0.439	208.0	-10.7	0.25	1.384	78.1	0.903 9.719		25.1	136.7	---	---	1.19	0.527	151.0	112.9	3.4	0.514
4-1010	4-1470	0.432	206.3	-10.2	0.22	1.372	77.8	0.871 7.324		26.3	139.6	---	---	1.20	0.495	149.2	112.8	3.5	0.481
4-1010	4-1490	0.426	204.8	-9.7	0.18	1.362	77.5	0.845 6.052		27.4	142.4	---	---	1.22	0.465	147.3	112.5	3.5	0.452
4-1010	4-1510	0.421	203.5	-9.3	0.14	1.353	77.2	0.822 5.270		28.4	145.0	---	---	1.24	0.439	145.3	112.2	3.6	0.425
4-1010	4-1530	0.417	202.4	-9.0	0.10	1.345	77.0	0.803 4.744		29.3	147.5	---	---	1.25	0.415	143.2	111.8	3.6	0.400
4-1010	4-1550	0.414	201.4	-8.8	0.06	1.338	76.8	0.787 4.369		30.1	149.9	---	---	1.27	0.393	141.0	111.3	3.7	0.378
4-1010	4-1570	0.410	200.6	-8.6	0.02	1.332	76.7	0.773 4.091		30.7	152.2	---	---	1.30	0.373	138.7	110.8	3.8	0.357
4-1010	4-1590	0.407	200.0	-8.5	-0.03	1.327	76.6	0.761 3.878		31.2	154.4	---	---	1.32	0.356	136.3	110.2	3.8	0.338
4-1010	4-1610	0.404	199.5	-8.5	-0.08	1.323	76.5	0.750 3.711		31.6	156.4	---	---	1.35	0.340	133.8	109.4	3.9	0.321
4-1010	4-1630	0.401	199.1	-8.5	-0.12	1.319	76.5	0.741 3.579		31.9	158.4	---	---	1.38	0.326	131.3	108.6	4.0	0.306
4-1010	4-1650	0.399	198.8	-8.5	-0.18	1.316	76.5	0.733 3.471		32.1	160.3	---	---	1.41	0.313	128.6	107.7	4.1	0.292
4-1010	4-1670	0.396	198.6	-8.7	-0.23	1.313	76.5	0.726 3.384		32.2	162.0	---	---	1.44	0.302	125.9	106.8	4.2	0.279
4-1010	4-1690	0.393	198.5	-8.8	-0.29	1.311	76.6	0.720 3.312		32.2	163.7	---	---	1.48	0.292	123.2	105.7	4.3	0.267
4-1010	4-1710	0.390	198.5	-9.0	-0.35	1.308	76.7	0.715 3.253		32.1	165.3	---	---	1.52	0.283	120.4	104.6	4.4	0.257
4-1010	4-1730	0.387	198.5	-9.3	-0.41	1.307	76.8	0.710 3.204		32.0	166.9	---	---	1.56	0.276	117.6	103.5	4.5	0.248
4-1010	4-1750	0.384	198.7	-9.6	-0.48	1.305	76.9	0.706 3.163		31.8	168.4	---	---	1.61	0.270	114.8	102.2	4.6	0.239
4-1010	4-1770	0.381	198.9	-10.0	-0.55	1.304	77.1	0.703 3.130		31.5	169.8	---	---	1.66	0.264	112.0	101.0	4.8	0.232
4-1010	4-1790	0.378	199.2	-10.4	-0.62	1.303	77.3	0.700 3.102		31.1	171.1	---	---	1.72	0.260	109.2	99.7	4.9	0.226
4-1010	4-1810	0.375	199.5	-10.8	-0.71	1.302	77.5	0.697 3.079		30.7	172.4	---	---	1.79	0.256	106.5	98.4	5.0	0.220
4-1010	4-1830	0.372	199.9	-11.3	-0.80	1.301	77.7	0.694 3.061		30.2	173.7	---	---	1.86	0.253	103.9	97.1	5.2	0.215
4-1010	4-1850	0.369	200.4	-11.9	-0.89	1.300	77.9	0.692 3.046		29.7	174.9	---	---	1.94	0.251	101.3	95.8	5.3	0.211
4-1010	4-1870	0.365	200.9	-12.5	-1.00	1.300	78.1	0.690 3.034		29.2	176.0	---	---	2.02	0.250	98.7	94.6	5.5	0.208

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1010	4-1890	0.362	201.4	-13.2	-1.12	1.300	78.4	0.689	3.025	28.5	177.1	---	---	2.12	0.249	96.3	93.3	5.6	0.205
4-1010	4-1910	0.359	202.0	-14.0	-1.25	1.299	78.7	0.687	3.019	27.9	178.2	---	---	2.23	0.249	93.9	92.2	5.8	0.203
4-1010	4-1930	0.355	202.7	-14.9	-1.39	1.299	79.0	0.686	3.014	27.2	179.2	---	---	2.36	0.249	91.6	91.1	6.0	0.202
4-1010	4-1950	0.352	203.4	-15.8	-1.56	1.299	79.3	0.685	3.012	26.4	180.2	---	5.075	2.51	0.249	89.5	90.1	6.2	0.201
4-1010	4-1970	0.349	204.1	-16.9	-1.74	1.299	79.6	0.684	3.011	25.6	181.2	---	5.071	2.67	0.250	87.4	89.1	6.4	0.201
4-1010	4-1990	0.346	204.8	-18.1	-1.95	1.299	80.0	0.683	3.012	24.8	182.1	---	5.070	2.87	0.251	85.4	88.3	6.6	0.201
4-1010	4-2010	0.343	205.6	-19.4	-2.20	1.299	80.3	0.683	3.014	24.0	183.0	---	5.071	3.10	0.252	83.5	87.5	6.9	0.201
4-1010	4-2030	0.340	206.3	-21.0	-2.49	1.299	80.7	0.682	3.017	23.1	183.9	---	5.075	3.37	0.254	81.7	86.9	7.3	0.202
4-1010	4-2050	0.337	207.0	-22.7	-2.83	1.299	81.0	0.682	3.021	22.2	184.8	---	5.081	3.70	0.256	80.0	86.3	7.7	0.203
4-1010	4-2070	0.336	207.7	-24.8	-3.26	1.300	81.4	0.682	3.026	21.2	185.6	---	5.089	4.10	0.258	78.3	85.8	8.1	0.204
4-1010	4-2090	0.334	208.2	-27.3	-3.78	1.300	81.8	0.682	3.032	20.3	186.4	---	5.099	4.61	0.260	76.8	85.5	8.7	0.206
4-1010	4-2110	0.335	208.5	-30.3	-4.46	1.300	82.2	0.682	3.039	19.3	187.1	---	5.111	5.27	0.262	75.3	85.2	9.5	0.208
4-1010	4-2130	0.337	208.4	-34.2	-5.37	1.300	82.6	0.682	3.047	18.2	187.9	---	5.124	6.17	0.265	73.9	85.1	10.5	0.211
4-1010	4-2150	0.343	207.5	-39.2	-6.66	1.301	83.0	0.682	3.055	17.2	188.6	---	5.138	7.44	0.267	72.6	85.1	11.9	0.214
4-1010	4-2170	0.357	205.0	-45.9	-8.61	1.301	83.5	0.682	3.064	16.1	189.3	---	5.154	9.37	0.270	71.3	85.2	14.0	0.219
4-1010	4-2190	0.391	198.0	-55.3	-11.93	1.302	83.9	0.682	3.074	15.1	190.0	---	5.170	12.67	0.272	70.1	85.6	17.4	0.227
4-1010	4-2210	0.483	173.8	-67.0	-18.73	1.302	84.3	0.683	3.083	14.0	190.7	---	5.188	19.46	0.275	69.0	86.6	23.4	0.245
4-1010	4-2230	0.822	105.2	-62.9	-38.96	1.302	84.7	0.683	3.094	13.1	191.3	---	5.208	39.67	0.277	67.9	90.7	34.0	0.319
4-1010	4-2250	1.312	356.0	84.9	67.79	1.303	85.6	0.683	3.105	10.7	191.9	---	5.226	-67.10	0.280	66.9	96.5	-29.7	0.439
4-1010	4-2270	0.608	248.7	53.8	26.64	1.303	85.9	0.684	3.116	10.0	192.5	---	5.247	-25.97	0.283	65.9	89.0	-21.5	0.272
4-1010	4-2290	0.435	244.5	34.5	15.84	1.304	86.4	0.685	3.127	8.9	193.1	---	5.269	-15.19	0.285	64.9	87.8	-13.0	0.244
4-1010	4-2310	0.374	243.5	22.6	11.29	1.304	86.9	0.686	3.139	7.7	193.7	---	5.291	-10.66	0.288	64.0	87.8	-8.5	0.238
4-1010	4-2330	0.346	243.8	14.7	8.82	1.305	87.4	0.687	3.151	6.5	194.3	---	5.314	-8.20	0.291	63.2	88.2	-5.9	0.238
4-1010	4-2350	0.330	244.8	9.0	7.26	1.305	87.9	0.687	3.164	5.2	194.8	---	5.338	-6.66	0.293	62.3	88.7	-4.2	0.239
4-1010	4-2370	0.321	246.2	4.7	6.19	1.306	88.4	0.688	3.176	4.0	195.3	---	5.363	-5.61	0.296	61.5	89.4	-3.0	0.241
4-1010	4-2390	0.316	247.8	1.4	5.42	1.306	88.9	0.690	3.189	2.7	195.8	---	5.388	-4.85	0.298	60.8	90.1	-2.1	0.243
4-1010	4-2410	0.312	249.7	-1.3	4.82	1.307	89.5	0.691	3.202	1.3	196.3	---	5.414	-4.27	0.301	60.0	90.9	-1.5	0.246
4-1010	4-2430	0.310	251.7	-3.6	4.35	1.307	90.0	0.692	3.215	360.0	556.8	0.990	5.440	-3.82	0.303	59.3	91.7	-0.9	0.248
4-1010	4-2450	0.310	253.8	-5.6	3.97	1.308	90.6	0.693	3.229	358.6	557.3	0.990	5.467	-3.46	0.306	58.6	92.6	-0.5	0.251
4-1010	4-2470	0.310	256.0	-7.1	3.66	1.308	91.1	0.695	3.242	357.3	557.7	0.990	5.495	-3.16	0.308	58.0	93.5	-0.2	0.254
4-1010	4-2490	0.311	258.3	-8.5	3.39	1.309	91.7	0.696	3.256	355.9	558.2	0.989	5.523	-2.91	0.310	57.3	94.5	0.1	0.257
4-1010	4-2510	0.312	260.6	-9.8	3.16	1.309	92.3	0.698	3.270	354.5	558.6	0.989	5.551	-2.71	0.313	56.7	95.5	0.3	0.260
4-1010	4-2530	0.314	263.0	-10.8	2.97	1.310	92.9	0.699	3.284	353.0	559.0	0.987	5.581	-2.53	0.315	56.1	96.6	0.5	0.263
4-1010	4-2550	0.317	265.4	-11.8	2.79	1.310	93.5	0.701	3.298	351.6	559.4	0.986	5.610	-2.37	0.317	55.5	97.7	0.7	0.266
4-1010	4-2570	0.321	267.8	-12.6	2.64	1.311	94.1	0.703	3.312	350.1	559.7	0.984	5.640	-2.24	0.319	55.0	98.8	0.9	0.269
4-1010	4-2590	0.325	270.2	-13.3	2.50	1.311	94.7	0.705	3.327	348.7	560.1	0.982	5.671	-2.12	0.321	54.4	100.0	1.0	0.272
4-1010	4-2610	0.329	272.6	-13.9	2.38	1.312	95.3	0.707	3.341	347.2	560.4	0.980	5.702	-2.02	0.324	53.8	101.1	1.1	0.275
4-1020	4-1300	0.642	222.0	-14.9	0.50	1.584	76.4	1.469-2.019		22.8	112.4	---	---	1.21	0.934	162.0	112.3	3.2	0.918
4-1020	4-1320	0.606	219.0	-14.1	0.47	1.539	75.7	1.334-2.815		24.9	116.0	---	---	1.21	0.856	160.9	112.5	3.2	0.842
4-1020	4-1340	0.579	216.2	-13.2	0.43	1.502	75.1	1.226-4.130		26.9	119.7	---	---	1.21	0.788	159.8	112.6	3.3	0.775
4-1020	4-1360	0.557	213.6	-12.4	0.40	1.471	74.6	1.139-6.667		28.9	123.3	---	---	1.21	0.727	158.5	112.7	3.3	0.715
4-1020	4-1380	0.540	211.2	-11.7	0.36	1.445	74.1	1.06813.481		30.8	126.7	---	---	1.22	0.673	157.1	112.7	3.3	0.663
4-1020	4-1400	0.527	209.1	-11.0	0.33	1.423	73.6	1.01088.573		32.5	130.1	---	---	1.22	0.625	155.7	112.7	3.3	0.615
4-1020	4-1420	0.516	207.2	-10.4	0.29	1.405	73.3	0.96324.284		34.2	133.4	---	---	1.23	0.582	154.2	112.6	3.4	0.573
4-1020	4-1440	0.507	205.5	-9.8	0.26	1.389	72.9	0.92311.723		35.7	136.5	---	---	1.23	0.543	152.5	112.5	3.4	0.535
4-1020	4-1460	0.500	204.0	-9.4	0.22	1.375	72.6	0.890	8.159	37.0	139.5	---	---	1.24	0.508	150.8	112.3	3.5	0.500
4-1020	4-1480	0.494	202.7	-9.0	0.19	1.364	72.4	0.862	6.487	38.2	142.3	---	---	1.25	0.477	148.9	112.0	3.5	0.469
4-1020	4-1500	0.489	201.6	-8.6	0.15	1.354	72.2	0.839	5.523	39.3	145.0	---	---	1.26	0.448	147.0	111.7	3.5	0.440
4-1020	4-1520	0.485	200.6	-8.4	0.11	1.345	72.0	0.819	4.901	40.2	147.6	---	---	1.27	0.423	144.9	111.2	3.6	0.414
4-1020	4-1540	0.481	199.8	-8.2	0.07	1.338	71.9	0.802	4.470	41.0	150.0	---	---	1.28	0.399	142.7	110.8	3.7	0.391
4-1020	4-1560	0.477	199.2	-8.0	0.03	1.332	71.8	0.788	4.157	41.6	152.3	---	---	1.29	0.378	140.4	110.2	3.7	0.369
4-1020	4-1580	0.474	198.6	-7.9	-0.01	1.326	71.7	0.775	3.920	42.1	154.5	---	---	1.31	0.359	138.0	109.5	3.8	0.350
4-1020	4-1600	0.470	198.2	-7.8	-0.05	1.322	71.7	0.765	3.737	42.5	156.5	---	---	1.32	0.342	135.6	108.8	3.9	0.332
4-1020	4-1620	0.467	197.9	-7.8	-0.09	1.318	71.7	0.755	3.593	42.8	158.5	---	---	1.34	0.327	133.0	108.0	3.9	0.316
4-1020	4-1640	0.464	197.6	-7.9	-0.13	1.314	71.8	0.747	3.478	43.0	160.3	---	---	1.36	0.314	130.3	107.1	4.0	0.301
4-1020	4-1660	0.460	197.5	-8.0	-0.18	1.311	71.8	0.740	3.384	43.1	162.1	---	---	1.38	0.302	127.6	106.1	4.1	0.287
4-1020	4-1680	0.457	197.4	-8.1	-0.23	1.308	71.9	0.734	3.308	43.1	163.8	---	---	1.41	0.291	124.8	105.1	4.2	0.275
4-1020	4-1700	0.454	197.5	-8.2	-0.28	1.306	72.0	0.729	3.245	43.0	165.4	---	---	1.43	0.282	122.0	104.0	4.3	0.265
4-1020	4-1720	0.450	197.5	-8.4	-0.33	1.304	72.2	0.724	3.194	42.9	166.9	---	---	1.46	0.274	119.1	102.9	4.4	0.255
4-1020	4-1740	0.447	197.7	-8.6	-0.39	1.303	72.3	0.720	3.151	42.6	168.4	---	---	1.49	0.267	116.2	101.7	4.5	0.246
4-1020	4-1760	0.443	197.9	-8.9	-0.44	1.301	72.5	0.716	3.116	42.3	169.7	---	---	1.52	0.261	113.3	100.4	4.5	0.239
4-1020	4-1780	0.439	198.1	-9.2	-0.49	1.300	72.7	0.713	3.087	41.9	171.1	---	---	1.56	0.256	110.5	99.2	4.6	0.232
4-1020	4-1800	0.435	198.5	-9.5	-0.55	1.299	72.9	0.710	3.063	41.5	172.4	---	---	1.60	0.252	107.7	97.9	4.7	0.226
4-1020	4-1820	0.431	198.8	-9.9	-0.62	1.298	73.2	0.707	3.044	41.0	173.6	---	---	1.64	0.249	104.9	96.6	4.8	0.221
4-1020	4-1840	0.427	199.2	-10.3	-0.69	1.298	73.4	0.705	3.029	40.5	174.8	---	---	1.69	0.247	102.2	95.4	4.9	0.217
4-1020	4-1860	0.423	199.7	-10.7	-0.76	1.297	73.7	0.702	3.017	39.9	175.9	---	---	1.74	0.246	99.6	94.1	5.0	0.213
4-1020	4-1880	0.419	200.2	-11.2	-0.84	1.297	74.0	0.701	3.008	39.2	177.0	---	---	1.80	0.245	97.0	92.9	5.1	0.210
4-1020	4-1900	0.414	200.8	-11.7	-0.92	1.297	74.3	0.699	3.001	38.6	178.0	---	---	1.86	0.244	94.6	91.8	5.2	0.208
4-1020	4-1920	0.410	201.3	-12.3	-1.01	1.296	74.6	0.697	2.997	37.8	179.0	---	---	1.93	0.244	92.2	90.7	5.3	0.206
4-1020	4-1940	0.405	202.0	-12.9	-1.11	1.296	74.9	0.696	2.994	37.1	180.0	---	5.078	2.01	0.245	90.0	89.7	5.5	0.205
4-1020	4-1960	0.401	202.6	-13.6	-1.22	1.296	75.2	0.695	2.994	36.3	181.0	---	5.073	2.09	0.246	87.8	88.8	5.6	0.204
4-1020	4-1980	0.396	203.3	-14.3	-1.33	1.296	75.6	0.694	2.994	35.5	181.9	---	5.071	2.19	0.247	85.8	88.0	5.7	0.204
4-1020	4-2000	0.392	204.1	-15.1	-1.46	1.296	75.9	0.693	2.997	34.6	182.8	---	5.072	2.29	0.248	83.8	87.3	5.8	0.204
4-1020	4-2020	0.387	204.9	-15.9	-1.60	1.297	76.3	0.692	3.000	33.7	183.6	---	5.076	2.41	0.250	82.0	86.6	6.0	0.205
4-1020	4-2040	0.383	205.7	-16.8	-1.75	1.297	76.7	0.691	3.005	32.8	184.5	---	5.081	2.55	0.252	80.2	86.1	6.1	0.205
4-1020	4-2060	0.378	206.5	-17.9	-1.93	1.297	77.1	0.690	3.010	31.8	185.3	---	5.089	2.71	0.254	78.5	85.6	6.3	0.206
4-1020	4-2080	0.374	207.3	-19.0	-2.13	1.297	77.5	0.690	3.017	30.8	186.0	---	5.098	2.89	0.256	77.0	85.3	6.5	0.208
4-1020	4-2100	0.370	208.2	-20.3	-2.36	1.298	77.9	0.689	3.024	29.8	186.8	---	5.109	3.10	0.259	75.5	85.0	6.8	0.209
4-1020	4-2120	0.366	209.1	-21.7	-2.62	1.298	78.3	0.689	3.032	28.8	187.5	---	5.121	3.34	0.261	74.1	84.8	7.0	0.211
4-1020	4-2140	0.362	209.9	-23.3	-2.94	1.298	78.7	0.689	3.041	27.7	188.3	---	5.135	3.63	0.264	72.7	84.8	7.4	0.213

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1020	4-2160	0.359	210.7	-25.1	-3.31	1.299	79.2	0.689	3.050	26.6	189.0	---	5.150	3.99	0.266	71.4	84.8	7.7	0.215
4-1020	4-2180	0.358	211.5	-27.3	-3.76	1.299	79.6	0.688	3.060	25.5	189.6	---	5.166	4.42	0.269	70.2	84.9	8.2	0.217
4-1020	4-2200	0.354	212.1	-29.8	-4.33	1.299	80.1	0.688	3.070	24.4	190.3	---	5.183	4.97	0.272	69.1	85.1	8.8	0.220
4-1020	4-2220	0.354	212.5	-32.9	-5.06	1.300	80.5	0.688	3.081	23.3	191.0	---	5.201	5.68	0.275	68.0	85.4	9.6	0.223
4-1020	4-2240	0.356	212.5	-36.9	-6.03	1.300	81.0	0.688	3.092	22.1	191.6	---	5.220	6.63	0.277	67.0	85.7	10.6	0.226
4-1020	4-2260	0.362	211.6	-41.9	-7.40	1.301	81.5	0.689	3.103	20.9	192.2	---	5.240	7.99	0.280	66.0	86.2	12.0	0.230
4-1020	4-2280	0.377	208.9	-48.7	-9.47	1.301	82.0	0.689	3.115	19.7	192.8	---	5.261	10.04	0.283	65.1	86.9	14.0	0.235
4-1020	4-2300	0.413	201.3	-57.9	-12.96	1.302	82.4	0.689	3.127	18.6	193.4	---	5.283	13.51	0.286	64.2	87.8	17.3	0.244
4-1020	4-2320	0.510	174.5	-68.6	-20.01	1.302	82.9	0.690	3.140	17.4	193.9	---	5.305	20.53	0.288	63.3	89.5	23.2	0.263
4-1020	4-2340	0.842	109.3	-62.2	-39.96	1.303	83.3	0.690	3.152	16.3	194.5	---	5.328	40.47	0.291	62.5	94.8	33.1	0.335
4-1020	4-2360	1.384	77.0	86.6	72.30	1.303	84.4	0.690	3.165	13.7	195.0	---	5.350	-71.81	0.294	61.8	102.6	-28.7	0.469
4-1020	4-2380	0.653	249.4	55.6	29.11	1.304	84.7	0.691	3.179	13.0	195.5	---	5.375	-28.64	0.296	61.1	93.4	-21.9	0.295
4-1020	4-2400	0.459	247.7	35.7	17.15	1.304	85.2	0.692	3.192	11.8	196.0	---	5.400	-16.70	0.299	60.3	91.8	-13.4	0.263
4-1020	4-2420	0.389	247.6	23.3	12.12	1.305	85.7	0.692	3.206	10.5	196.5	---	5.425	-11.69	0.302	59.7	92.0	-8.8	0.256
4-1020	4-2440	0.357	248.4	15.0	9.39	1.305	86.2	0.693	3.220	9.2	197.0	---	5.451	-8.98	0.304	59.0	92.6	-6.1	0.255
4-1020	4-2460	0.339	249.7	9.1	7.67	1.306	86.8	0.694	3.233	7.9	197.4	---	5.478	-7.28	0.307	58.4	93.4	-4.4	0.255
4-1020	4-2480	0.328	251.3	4.7	6.50	1.306	87.3	0.695	3.248	6.5	197.9	---	5.505	-6.13	0.309	57.8	94.2	-3.2	0.257
4-1020	4-2500	0.321	253.2	1.2	5.65	1.307	87.9	0.696	3.262	5.1	198.3	---	5.532	-5.30	0.311	57.2	95.2	-2.3	0.259
4-1020	4-2520	0.317	255.2	-1.6	5.00	1.307	88.5	0.697	3.276	3.7	198.8	---	5.560	-4.67	0.314	56.6	96.2	-1.6	0.262
4-1020	4-2540	0.314	257.5	-3.9	4.48	1.308	89.1	0.698	3.291	2.3	199.2	---	5.589	-4.17	0.316	56.0	97.3	-1.1	0.264
4-1020	4-2560	0.312	259.8	-5.8	4.07	1.308	89.6	0.700	3.305	0.9	199.6	---	5.618	-3.78	0.318	55.5	98.3	-0.7	0.267
4-1020	4-2580	0.312	262.2	-7.4	3.72	1.309	90.2	0.701	3.320	359.4	559.9	0.993	5.647	-3.45	0.320	55.0	99.5	-0.3	0.269
4-1020	4-2600	0.312	264.7	-8.8	3.43	1.309	90.8	0.702	3.335	357.9	560.3	0.993	5.677	-3.18	0.323	54.5	100.6	-0.1	0.272
4-1020	4-2620	0.313	267.2	-10.0	3.19	1.310	91.5	0.704	3.350	356.5	560.7	0.992	5.707	-2.95	0.325	54.0	101.8	0.2	0.275
4-1030	4-1350	0.648	211.8	-11.9	0.42	1.486	68.6	1.173	-5.031	39.5	123.1	---	---	1.28	0.760	159.9	112.1	3.3	0.753
4-1030	4-1370	0.629	209.6	-11.2	0.38	1.456	68.2	1.097	-8.910	41.6	126.8	---	---	1.28	0.701	158.7	112.1	3.3	0.695
4-1030	4-1390	0.614	207.7	-10.6	0.35	1.432	67.9	1.035	24.356	43.5	130.3	---	---	1.28	0.648	157.3	112.0	3.3	0.644
4-1030	4-1410	0.602	206.1	-10.1	0.31	1.411	67.6	0.985	55.944	45.2	133.7	---	---	1.28	0.602	155.8	111.9	3.4	0.599
4-1030	4-1430	0.592	204.6	-9.6	0.27	1.393	67.3	0.943	14.902	46.8	136.9	---	---	1.28	0.560	154.2	111.7	3.4	0.558
4-1030	4-1450	0.584	203.3	-9.2	0.24	1.379	67.1	0.909	9.223	48.2	139.9	---	---	1.28	0.522	152.5	111.5	3.4	0.521
4-1030	4-1470	0.577	202.2	-8.9	0.20	1.366	66.9	0.881	6.980	49.5	142.8	---	---	1.28	0.488	150.7	111.2	3.5	0.487
4-1030	4-1490	0.571	201.3	-8.6	0.16	1.355	66.8	0.857	5.787	50.6	145.5	---	---	1.28	0.457	148.8	110.8	3.5	0.457
4-1030	4-1510	0.566	200.5	-8.4	0.13	1.346	66.7	0.837	5.053	51.5	148.1	---	---	1.28	0.429	146.8	110.4	3.6	0.430
4-1030	4-1530	0.561	199.9	-8.2	0.09	1.338	66.6	0.820	4.560	52.3	150.5	---	---	1.29	0.404	144.6	109.9	3.6	0.405
4-1030	4-1550	0.557	199.4	-8.1	0.05	1.331	66.6	0.805	4.210	52.9	152.8	---	---	1.30	0.382	142.4	109.3	3.7	0.382
4-1030	4-1570	0.552	198.9	-8.0	0.01	1.325	66.6	0.793	3.949	53.4	155.0	---	---	1.30	0.362	140.0	108.6	3.7	0.362
4-1030	4-1590	0.548	198.6	-7.9	-0.02	1.320	66.6	0.782	3.751	53.8	157.0	---	---	1.31	0.343	137.5	107.8	3.8	0.343
4-1030	4-1610	0.544	198.4	-7.9	-0.06	1.316	66.7	0.773	3.596	54.1	158.9	---	---	1.32	0.327	134.9	107.0	3.9	0.326
4-1030	4-1630	0.540	198.2	-8.0	-0.10	1.312	66.8	0.765	3.473	54.2	160.8	---	---	1.33	0.312	132.2	106.1	3.9	0.311
4-1030	4-1650	0.536	198.1	-8.0	-0.15	1.309	66.9	0.758	3.374	54.3	162.5	---	---	1.34	0.299	129.4	105.2	4.0	0.297
4-1030	4-1670	0.532	198.1	-8.1	-0.19	1.306	67.0	0.752	3.293	54.3	164.1	---	---	1.36	0.288	126.6	104.1	4.1	0.285
4-1030	4-1690	0.528	198.1	-8.3	-0.23	1.303	67.2	0.746	3.228	54.1	165.7	---	---	1.37	0.278	123.6	103.0	4.2	0.273
4-1030	4-1710	0.523	198.2	-8.4	-0.27	1.301	67.4	0.741	3.174	53.9	167.2	---	---	1.39	0.270	120.7	101.9	4.2	0.263
4-1030	4-1730	0.519	198.4	-8.6	-0.32	1.300	67.5	0.737	3.130	53.7	168.6	---	---	1.41	0.262	117.7	100.7	4.3	0.254
4-1030	4-1750	0.515	198.6	-8.8	-0.37	1.298	67.8	0.733	3.093	53.3	169.9	---	---	1.43	0.256	114.7	99.5	4.4	0.246
4-1030	4-1770	0.510	198.9	-9.0	-0.41	1.297	68.0	0.729	3.064	52.9	171.2	---	---	1.45	0.251	111.7	98.2	4.4	0.239
4-1030	4-1790	0.505	199.2	-9.3	-0.46	1.296	68.2	0.726	3.039	52.4	172.5	---	---	1.47	0.247	108.8	97.0	4.5	0.233
4-1030	4-1810	0.501	199.5	-9.6	-0.52	1.295	68.5	0.723	3.020	51.9	173.6	---	---	1.50	0.244	105.9	95.8	4.6	0.228
4-1030	4-1830	0.496	199.9	-9.9	-0.57	1.295	68.8	0.721	3.004	51.3	174.8	---	---	1.53	0.241	103.1	96.5	4.7	0.224
4-1030	4-1850	0.491	200.3	-10.2	-0.63	1.294	69.1	0.718	2.992	50.7	175.9	---	---	1.56	0.239	100.3	93.3	4.7	0.220
4-1030	4-1870	0.486	200.7	-10.6	-0.68	1.294	69.4	0.716	2.983	50.0	176.9	---	---	1.60	0.238	97.6	92.2	4.8	0.217
4-1030	4-1890	0.480	201.2	-11.0	-0.75	1.293	69.7	0.714	2.977	49.3	178.0	---	---	1.63	0.238	95.1	91.1	4.9	0.214
4-1030	4-1910	0.475	201.8	-11.4	-0.81	1.293	70.0	0.712	2.973	48.6	178.9	---	---	1.67	0.238	92.6	90.1	4.9	0.212
4-1030	4-1930	0.470	202.3	-11.8	-0.88	1.293	70.4	0.711	2.971	47.8	179.9	---	---	1.72	0.239	90.3	89.1	5.0	0.211
4-1030	4-1950	0.464	202.9	-12.3	-0.95	1.293	70.7	0.709	2.970	47.0	180.8	---	5.076	1.77	0.240	88.0	88.2	5.1	0.210
4-1030	4-1970	0.459	203.6	-12.8	-1.03	1.293	71.1	0.708	2.971	46.1	181.7	---	5.074	1.82	0.241	85.9	87.4	5.2	0.209
4-1030	4-1990	0.453	204.2	-13.3	-1.11	1.293	71.5	0.706	2.974	45.2	182.6	---	5.074	1.88	0.243	83.9	86.7	5.2	0.209
4-1030	4-2010	0.448	204.9	-13.9	-1.20	1.293	71.9	0.705	2.978	44.3	183.4	---	5.077	1.95	0.244	82.0	86.1	5.3	0.209
4-1030	4-2030	0.442	205.6	-14.5	-1.29	1.294	72.3	0.704	2.983	43.4	184.2	---	5.082	2.02	0.247	80.2	85.6	5.4	0.210
4-1030	4-2050	0.436	206.4	-15.1	-1.40	1.294	72.7	0.703	2.989	42.4	185.0	---	5.089	2.10	0.249	78.5	85.2	5.5	0.211
4-1030	4-2070	0.431	207.2	-15.8	-1.51	1.294	73.1	0.702	2.996	41.4	185.8	---	5.098	2.19	0.251	76.8	84.8	5.6	0.212
4-1030	4-2090	0.425	208.0	-16.6	-1.63	1.295	73.5	0.701	3.003	40.4	186.5	---	5.109	2.29	0.254	75.3	84.6	5.7	0.213
4-1030	4-2110	0.419	208.9	-17.4	-1.76	1.295	73.9	0.700	3.012	39.3	187.2	---	5.121	2.40	0.257	73.9	84.4	5.8	0.215
4-1030	4-2130	0.414	209.7	-18.3	-1.91	1.295	74.4	0.700	3.021	38.2	187.9	---	5.134	2.53	0.259	72.5	84.4	5.9	0.216
4-1030	4-2150	0.408	210.6	-19.2	-2.07	1.296	74.8	0.699	3.030	37.2	188.6	---	5.149	2.67	0.262	71.2	84.4	6.1	0.218
4-1030	4-2170	0.403	211.6	-20.3	-2.26	1.296	75.3	0.698	3.041	36.0	189.3	---	5.164	2.84	0.265	70.0	84.5	6.3	0.220
4-1030	4-2190	0.397	212.5	-21.4	-2.47	1.297	75.7	0.698	3.051	34.9	190.0	---	5.181	3.03	0.268	68.9	84.7	6.5	0.222
4-1030	4-2210	0.392	213.5	-22.7	-2.71	1.297	76.2	0.697	3.063	33.8	190.6	---	5.199	3.25	0.271	67.8	84.9	6.7	0.224
4-1030	4-2230	0.387	214.4	-24.1	-2.99	1.298	76.7	0.697	3.074	32.6	191.2	---	5.217	3.51	0.274	66.8	85.3	7.0	0.226
4-1030	4-2250	0.383	215.4	-25.8	-3.32	1.298	77.2	0.697	3.086	31.4	191.8	---	5.237	3.81	0.277	65.8	85.7	7.3	0.229
4-1030	4-2270	0.379	216.3	-27.6	-3.71	1.299	77.7	0.697	3.099	30.2	192.4	---	5.257	4.19	0.280	64.9	86.2	7.6	0.231
4-1030	4-2290	0.375	217.1	-29.8	-4.19	1.299	78.2	0.696	3.111	29.0	193.0	---	5.278	4.64	0.282	64.0	86.7	8.1	0.234
4-1030	4-2310	0.373	217.9	-32.4	-4.79	1.300	78.7	0.696	3.124	27.7	193.6	---	5.299	5.22	0.285	63.2	87.3	8.7	0.237
4-1030	4-2330	0.372	218.3	-35.6	-5.56	1.300	79.2	0.696	3.137	26.5	194.1	---	5.322	5.97	0.288	62.4	88.0	9.4	0.240
4-1030	4-2350	0.374	218.4	-39.5	-6.59	1.301	79.7	0.696	3.151	25.2	194.6	---	5.345	6.98	0.291	61.7	88.8	10.4	0.243
4-1030	4-2370	0.380	217.6	-44.6	-8.04	1.301	80.2	0.696	3.164	23.9	195.2	---	5.368	8.41	0.294	60.9	89.6	11.8	0.247
4-1030	4-2390	0.396	214.8	-51.5	-10.24	1.302	80.7	0.697	3.178	22.6	195.7	---	5.392	10.59	0.296	60.3	90.6	13.9	0.253
4-1030	4-2410	0.435	206.5	-60.7	-13.94	1.302	81.3	0.697	3.192	21.3	196.2	---	5.417	14.27	0.299	59.6	92.0	17.2	0.261
4-1030	4-2430	0.538	175.6	-70.7	-21.43	1.303	81.8	0.697	3.207	20.1	196.6	---	5.442	21.74	0.302	59.0	94.2	23.0	0.281
4-1030	4-2450	0.889	111.6	-61.0	-42.54	1.303	82.2	0.698	3.221	19.0	197.1	---	5.468	42.83	0.304	58.3	100.8	32.6	0.356

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1030	4-2470	1.361	156.4	84.8	70.89	1.304	83.3	0.697	3.235	16.2	197.6	---	5.492	-70.62	0.307	57.9	108.5	-28.3	0.474
4-1030	4-2490	0.663	250.1	54.3	29.53	1.304	83.7	0.698	3.250	15.4	198.0	---	5.519	-29.28	0.309	57.3	98.7	-21.2	0.311
4-1030	4-2510	0.470	251.2	34.7	17.51	1.305	84.2	0.699	3.265	14.1	198.4	---	5.547	-17.28	0.312	56.7	97.2	-13.0	0.280
4-1030	4-2530	0.398	252.1	22.3	12.37	1.305	84.7	0.700	3.280	12.8	198.9	---	5.574	-12.16	0.314	56.2	97.5	-8.6	0.272
4-1030	4-2550	0.364	253.4	14.0	9.55	1.306	85.3	0.700	3.295	11.4	199.3	---	5.602	-9.36	0.317	55.7	98.2	-6.0	0.271
4-1030	4-2570	0.345	255.1	8.1	7.78	1.306	85.9	0.701	3.310	10.0	199.7	---	5.630	-7.61	0.319	55.2	99.2	-4.3	0.271
4-1030	4-2590	0.334	257.0	3.7	6.56	1.307	86.5	0.702	3.325	8.6	200.1	---	5.659	-6.41	0.321	54.7	100.3	-3.1	0.273
4-1030	4-2610	0.326	259.2	0.3	5.67	1.307	87.1	0.703	3.340	7.1	200.4	---	5.688	-5.55	0.323	54.3	101.4	-2.3	0.275
4-1030	4-2630	0.321	261.4	-2.4	4.99	1.308	87.7	0.704	3.356	5.6	200.8	---	5.717	-4.89	0.326	53.8	102.5	-1.6	0.277
4-1040	4-1400	0.705	206.3	-10.3	0.33	1.418	61.5	1.00629	.901	56.9	134.6	---	---	1.34	0.622	157.7	111.0	3.4	0.628
4-1040	4-1420	0.692	205.1	-9.9	0.30	1.398	61.3	0.96421	.077	58.6	137.9	---	---	1.33	0.577	156.2	110.7	3.4	0.583
4-1040	4-1440	0.682	204.0	-9.5	0.26	1.382	61.2	0.92910	.699	60.0	141.0	---	---	1.32	0.536	154.6	110.5	3.4	0.544
4-1040	4-1460	0.673	203.1	-9.2	0.22	1.368	61.1	0.901	7.574	61.3	143.9	---	---	1.32	0.499	152.8	110.1	3.5	0.508
4-1040	4-1480	0.665	202.4	-9.0	0.18	1.356	61.1	0.877	6.078	62.4	146.6	---	---	1.31	0.466	151.0	109.7	3.5	0.476
4-1040	4-1500	0.659	201.7	-8.8	0.15	1.346	61.1	0.857	5.209	63.3	149.2	---	---	1.31	0.436	149.0	109.2	3.6	0.447
4-1040	4-1520	0.652	201.2	-8.7	0.11	1.337	61.1	0.840	4.645	64.1	151.5	---	---	1.31	0.409	146.9	108.7	3.6	0.421
4-1040	4-1540	0.646	200.8	-8.6	0.07	1.330	61.1	0.826	4.253	64.7	153.8	---	---	1.30	0.385	144.6	108.1	3.6	0.397
4-1040	4-1560	0.641	200.5	-8.6	0.03	1.323	61.2	0.814	3.968	65.1	155.9	---	---	1.30	0.363	142.3	107.4	3.7	0.376
4-1040	4-1580	0.635	200.2	-8.5	-0.01	1.318	61.3	0.803	3.754	65.4	157.9	---	---	1.31	0.343	139.8	106.6	3.8	0.356
4-1040	4-1600	0.630	200.1	-8.6	-0.04	1.313	61.4	0.794	3.588	65.6	159.8	---	---	1.31	0.326	137.1	105.7	3.8	0.339
4-1040	4-1620	0.625	200.0	-8.6	-0.08	1.309	61.6	0.786	3.457	65.7	161.5	---	---	1.31	0.310	134.4	104.8	3.9	0.323
4-1040	4-1640	0.620	200.0	-8.7	-0.12	1.306	61.7	0.779	3.353	65.7	163.2	---	---	1.32	0.296	131.6	103.9	3.9	0.308
4-1040	4-1660	0.615	200.0	-8.8	-0.16	1.303	61.9	0.773	3.269	65.6	164.8	---	---	1.32	0.284	128.6	102.8	4.0	0.295
4-1040	4-1680	0.610	200.1	-8.9	-0.20	1.300	62.1	0.767	3.201	65.5	166.2	---	---	1.33	0.273	125.6	101.7	4.0	0.283
4-1040	4-1700	0.605	200.2	-9.0	-0.24	1.298	62.3	0.762	3.146	65.2	167.7	---	---	1.34	0.264	122.5	100.6	4.1	0.273
4-1040	4-1720	0.599	200.4	-9.2	-0.28	1.296	62.6	0.758	3.100	64.9	169.0	---	---	1.35	0.256	119.4	99.4	4.2	0.264
4-1040	4-1740	0.594	200.6	-9.3	-0.32	1.295	62.8	0.754	3.063	64.5	170.3	---	---	1.36	0.249	116.3	98.2	4.2	0.256
4-1040	4-1760	0.589	200.9	-9.5	-0.36	1.294	63.1	0.750	3.033	64.0	171.5	---	---	1.37	0.244	113.1	97.0	4.3	0.248
4-1040	4-1780	0.583	201.1	-9.8	-0.41	1.293	63.4	0.747	3.008	63.5	172.7	---	---	1.38	0.239	110.0	95.8	4.3	0.242
4-1040	4-1800	0.578	201.5	-10.0	-0.45	1.292	63.7	0.743	2.989	62.9	173.9	---	---	1.40	0.236	106.9	94.6	4.4	0.237
4-1040	4-1820	0.572	201.8	-10.2	-0.49	1.291	64.0	0.741	2.973	62.3	175.0	---	---	1.41	0.233	103.9	93.4	4.4	0.232
4-1040	4-1840	0.566	202.2	-10.5	-0.54	1.291	64.3	0.738	2.961	61.6	176.0	---	---	1.43	0.231	101.0	92.3	4.5	0.228
4-1040	4-1860	0.560	202.7	-10.8	-0.59	1.290	64.7	0.735	2.953	60.9	177.0	---	---	1.45	0.230	98.2	91.2	4.5	0.225
4-1040	4-1880	0.554	203.1	-11.1	-0.64	1.290	65.0	0.733	2.947	60.1	178.0	---	---	1.48	0.230	95.5	90.1	4.6	0.222
4-1040	4-1900	0.548	203.6	-11.4	-0.69	1.290	65.4	0.731	2.943	59.4	178.9	---	---	1.50	0.230	92.9	89.2	4.6	0.220
4-1040	4-1920	0.542	204.1	-11.8	-0.74	1.290	65.8	0.729	2.941	58.5	179.8	---	---	1.53	0.231	90.4	88.2	4.7	0.218
4-1040	4-1940	0.536	204.6	-12.1	-0.80	1.290	66.1	0.727	2.941	57.7	180.7	---	5.079	1.56	0.232	88.1	87.4	4.7	0.217
4-1040	4-1960	0.529	205.2	-12.5	-0.86	1.290	66.5	0.725	2.943	56.8	181.6	---	5.077	1.59	0.234	85.8	86.7	4.8	0.217
4-1040	4-1980	0.523	205.8	-12.9	-0.92	1.290	66.9	0.724	2.946	55.9	182.4	---	5.077	1.62	0.235	83.7	86.0	4.8	0.216
4-1040	4-2000	0.517	206.4	-13.3	-0.98	1.290	67.3	0.722	2.950	54.9	183.2	---	5.080	1.66	0.237	81.7	85.4	4.9	0.216
4-1040	4-2020	0.510	207.1	-13.8	-1.05	1.290	67.7	0.720	2.956	54.0	184.0	---	5.085	1.70	0.240	79.9	85.0	4.9	0.217
4-1040	4-2040	0.504	207.7	-14.3	-1.12	1.291	68.2	0.719	2.962	53.0	184.8	---	5.092	1.75	0.242	78.1	84.6	5.0	0.217
4-1040	4-2060	0.497	208.4	-14.7	-1.19	1.291	68.6	0.718	2.969	51.9	185.5	---	5.100	1.80	0.245	76.4	84.3	5.0	0.218
4-1040	4-2080	0.490	209.2	-15.3	-1.27	1.291	69.0	0.716	2.978	50.9	186.2	---	5.111	1.86	0.248	74.9	84.0	5.1	0.219
4-1040	4-2100	0.484	209.9	-15.8	-1.35	1.292	69.5	0.715	2.987	49.8	186.9	---	5.123	1.92	0.251	73.4	83.9	5.1	0.220
4-1040	4-2120	0.477	210.7	-16.4	-1.44	1.292	70.0	0.714	2.996	48.7	187.6	---	5.136	1.98	0.254	72.0	83.9	5.2	0.222
4-1040	4-2140	0.470	211.6	-17.0	-1.54	1.293	70.4	0.713	3.006	47.6	188.3	---	5.150	2.06	0.257	70.7	83.9	5.3	0.223
4-1040	4-2160	0.464	212.4	-17.7	-1.65	1.293	70.9	0.712	3.017	46.5	189.0	---	5.165	2.14	0.260	69.5	84.0	5.4	0.225
4-1040	4-2180	0.457	213.3	-18.4	-1.76	1.293	71.4	0.711	3.028	45.4	189.6	---	5.182	2.23	0.263	68.4	84.2	5.5	0.227
4-1040	4-2200	0.450	214.2	-19.2	-1.89	1.294	71.8	0.710	3.040	44.2	190.2	---	5.199	2.34	0.266	67.3	84.5	5.6	0.229
4-1040	4-2220	0.444	215.1	-20.0	-2.02	1.294	72.3	0.709	3.052	43.0	190.8	---	5.218	2.45	0.269	66.3	84.8	5.7	0.230
4-1040	4-2240	0.437	216.1	-20.8	-2.18	1.295	72.8	0.709	3.065	41.8	191.4	---	5.237	2.58	0.272	65.3	85.2	5.8	0.233
4-1040	4-2260	0.431	217.1	-21.8	-2.35	1.295	73.3	0.708	3.078	40.6	192.0	---	5.256	2.73	0.275	64.4	85.7	5.9	0.235
4-1040	4-2280	0.424	218.1	-22.8	-2.54	1.296	73.8	0.707	3.091	39.4	192.6	---	5.277	2.90	0.278	63.5	86.2	6.1	0.237
4-1040	4-2300	0.418	219.1	-24.0	-2.75	1.297	74.3	0.707	3.104	38.1	193.1	---	5.298	3.09	0.281	62.7	86.8	6.3	0.239
4-1040	4-2320	0.412	220.1	-25.2	-3.00	1.297	74.9	0.706	3.118	36.8	193.7	---	5.320	3.32	0.284	61.9	87.5	6.5	0.241
4-1040	4-2340	0.407	221.2	-26.6	-3.29	1.298	75.4	0.706	3.132	35.6	194.2	---	5.343	3.59	0.287	61.2	88.2	6.8	0.244
4-1040	4-2360	0.401	222.2	-28.2	-3.63	1.298	75.9	0.705	3.146	34.3	194.8	---	5.365	3.90	0.290	60.5	88.9	7.1	0.246
4-1040	4-2380	0.397	223.3	-30.1	-4.04	1.299	76.4	0.705	3.160	33.0	195.3	---	5.389	4.29	0.293	59.9	89.7	7.4	0.249
4-1040	4-2400	0.393	224.2	-32.2	-4.53	1.299	77.0	0.705	3.175	31.7	195.8	---	5.413	4.77	0.296	59.2	90.6	7.9	0.251
4-1040	4-2420	0.390	225.1	-34.8	-5.15	1.300	77.5	0.705	3.190	30.3	196.2	---	5.438	5.37	0.299	58.6	91.5	8.5	0.254
4-1040	4-2440	0.388	225.7	-38.0	-5.96	1.300	78.1	0.705	3.205	29.0	196.7	---	5.462	6.15	0.302	58.1	92.5	9.2	0.257
4-1040	4-2460	0.390	225.9	-41.9	-7.03	1.301	78.6	0.705	3.220	27.6	197.2	---	5.488	7.20	0.304	57.5	93.5	10.2	0.260
4-1040	4-2480	0.396	225.3	-47.1	-8.56	1.302	79.2	0.705	3.235	26.3	197.6	---	5.514	8.70	0.307	57.0	94.6	11.5	0.264
4-1040	4-2500	0.413	222.6	-54.1	-10.88	1.302	79.7	0.705	3.250	24.9	198.1	---	5.540	11.00	0.310	56.5	95.9	13.6	0.270
4-1040	4-2520	0.455	213.7	-63.5	-14.83	1.303	80.3	0.705	3.265	23.6	198.5	---	5.567	14.94	0.312	56.0	97.6	16.9	0.279
4-1040	4-2540	0.568	176.7	-73.1	-22.98	1.303	80.8	0.705	3.281	22.3	198.9	---	5.594	23.07	0.315	55.5	100.3	22.8	0.300
4-1040	4-2560	0.960	113.2	-59.0	-46.54	1.304	81.3	0.706	3.296	21.1	199.3	---	5.622	46.61	0.317	55.1	108.3	32.4	0.383
4-1040	4-2580	1.273	197.0	79.8	65.39	1.304	82.4	0.705	3.312	18.3	199.7	---	5.646	-65.35	0.319	54.7	113.9	-28.1	0.461
4-1040	4-2600	0.645	252.0	50.7	28.25	1.305	82.8	0.706	3.328	17.4	200.1	---	5.675	-28.23	0.322	54.3	104.5	-19.7	0.321
4-1040	4-2620	0.468	255.4	31.9	17.03	1.305	83.4	0.706	3.343	16.0	200.5	---	5.704	-17.03	0.324	53.9	103.4	-12.1	0.294
4-1040	4-2640	0.401	257.2	20.0	12.08	1.306	83.9	0.707	3.359	14.6	200.9	---	5.733	-12.10	0.326	53.5	103.8	-8.0	0.287
4-1050	4-1410	0.806	206.6	-10.5	0.33	1.404	54.9	0.98340	.054	70.9	139.6	---	---	1.39	0.596	158.5	109.5	3.4	0.613
4-1050	4-1430	0.792	205.7	-10.2	0.29	1.386	54.9	0.94913	.058	72.4	142.7	---	---	1.37	0.551	156.9	109.2	3.4	0.571
4-1050	4-1450	0.780	205.0	-10.0	0.25	1.370	54.9	0.922	8.364	73.6	145.5	---	---	1.36	0.511	155.3	108.8	3.4	0.532
4-1050	4-1470	0.770	204.4	-9.8	0.21	1.357	55.0	0.898	6.430	74.7	148.2	---	---	1.35	0.475	153.5	108.4	3.5	0.498
4-1050	4-1490	0.761	203.9	-9.7	0.17	1.346	55.1	0.879	5.384	75.5	150.7	---	---	1.34	0.443	151.5	107.9	3.5	0.467
4-1050	4-1510	0.753	203.5	-9.6	0.13	1.336	55.2	0.863	4.734	76.2	153.0	---	---	1.33	0.414	149.5	107.3	3.6	0.440
4-1050	4-1530	0.745	203.2	-9.5	0.09	1.328	55.3	0.849	4.295	76.7	155.2	---	---	1.32	0.387	147.3	106.6	3.6	0.415
4-1050	4-1550	0.738	202.9	-9.5	0.05	1.321	55.5	0.838	3.982	77.1	157.2	---	---	1.31	0.364	144.9	105.9	3.7	0.392

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1050	4-1570	0.731	202.8	-9.5	0.01	1.316	55.7	0.827	3.750	77.3	159.1	---	---	1.31	0.342	142.4	105.1	3.7	0.371
4-1050	4-1590	0.724	202.7	-9.5	-0.02	1.311	55.9	0.818	3.573	77.4	160.9	---	---	1.30	0.323	139.8	104.2	3.7	0.353
4-1050	4-1610	0.718	202.7	-9.6	-0.06	1.306	56.1	0.811	3.435	77.5	162.5	---	---	1.30	0.306	137.0	103.3	3.8	0.336
4-1050	4-1630	0.711	202.7	-9.7	-0.10	1.303	56.3	0.804	3.325	77.4	164.1	---	---	1.30	0.291	134.1	102.3	3.8	0.321
4-1050	4-1650	0.705	202.8	-9.8	-0.14	1.299	56.5	0.798	3.238	77.2	165.6	---	---	1.29	0.278	131.1	101.3	3.9	0.308
4-1050	4-1670	0.699	202.9	-9.9	-0.18	1.297	56.8	0.792	3.168	76.9	167.0	---	---	1.29	0.266	127.9	100.2	3.9	0.296
4-1050	4-1690	0.692	203.1	-10.0	-0.21	1.295	57.1	0.787	3.110	76.6	168.4	---	---	1.29	0.256	124.7	99.1	4.0	0.285
4-1050	4-1710	0.686	203.3	-10.1	-0.25	1.293	57.4	0.782	3.064	76.2	169.6	---	---	1.30	0.248	121.4	97.9	4.0	0.275
4-1050	4-1730	0.680	203.5	-10.3	-0.29	1.291	57.7	0.778	3.026	75.7	170.8	---	---	1.30	0.240	118.1	96.7	4.1	0.267
4-1050	4-1750	0.673	203.8	-10.5	-0.33	1.290	58.0	0.774	2.996	75.2	172.0	---	---	1.30	0.235	114.8	95.5	4.1	0.259
4-1050	4-1770	0.667	204.1	-10.7	-0.37	1.289	58.3	0.771	2.971	74.6	173.1	---	---	1.31	0.230	111.4	94.4	4.2	0.253
4-1050	4-1790	0.661	204.4	-10.9	-0.41	1.288	58.7	0.767	2.951	73.9	174.2	---	---	1.31	0.226	108.2	93.2	4.2	0.247
4-1050	4-1810	0.654	204.7	-11.1	-0.45	1.287	59.0	0.764	2.936	73.3	175.2	---	---	1.32	0.223	104.9	92.1	4.2	0.242
4-1050	4-1830	0.647	205.1	-11.3	-0.49	1.287	59.4	0.761	2.925	72.5	176.2	---	---	1.33	0.222	101.8	91.0	4.3	0.238
4-1050	4-1850	0.641	205.5	-11.6	-0.53	1.286	59.8	0.758	2.916	71.8	177.2	---	---	1.34	0.220	98.8	90.0	4.3	0.234
4-1050	4-1870	0.634	206.0	-11.8	-0.57	1.286	60.2	0.756	2.911	71.0	178.1	---	---	1.35	0.220	95.9	89.0	4.3	0.232
4-1050	4-1890	0.627	206.4	-12.1	-0.62	1.286	60.6	0.753	2.907	70.1	179.0	---	---	1.37	0.220	93.1	88.0	4.4	0.229
4-1050	4-1910	0.620	206.9	-12.4	-0.66	1.286	61.0	0.751	2.906	69.3	179.8	---	---	1.38	0.221	90.4	87.2	4.4	0.228
4-1050	4-1930	0.613	207.4	-12.7	-0.70	1.286	61.4	0.749	2.907	68.4	180.7	---	5.083	1.40	0.223	87.9	86.4	4.4	0.226
4-1050	4-1950	0.606	207.9	-13.0	-0.75	1.286	61.8	0.746	2.909	67.4	181.5	---	5.080	1.42	0.224	85.6	85.7	4.5	0.225
4-1050	4-1970	0.599	208.5	-13.3	-0.80	1.286	62.2	0.744	2.912	66.5	182.3	---	5.080	1.44	0.226	83.3	85.1	4.5	0.225
4-1050	4-1990	0.592	209.1	-13.6	-0.85	1.286	62.7	0.742	2.917	65.5	183.1	---	5.083	1.46	0.229	81.3	84.6	4.5	0.225
4-1050	4-2010	0.585	209.6	-14.0	-0.90	1.287	63.1	0.740	2.923	64.5	183.8	---	5.088	1.48	0.231	79.3	84.2	4.6	0.225
4-1050	4-2030	0.577	210.3	-14.4	-0.95	1.287	63.6	0.739	2.930	63.5	184.6	---	5.095	1.51	0.234	77.4	83.8	4.6	0.225
4-1050	4-2050	0.570	210.9	-14.7	-1.01	1.287	64.0	0.737	2.938	62.4	185.3	---	5.104	1.54	0.237	75.7	83.6	4.6	0.226
4-1050	4-2070	0.563	211.6	-15.1	-1.07	1.288	64.5	0.735	2.947	61.4	186.0	---	5.114	1.57	0.240	74.1	83.4	4.6	0.227
4-1050	4-2090	0.555	212.2	-15.5	-1.13	1.288	65.0	0.734	2.957	60.3	186.6	---	5.126	1.61	0.243	72.6	83.3	4.7	0.228
4-1050	4-2110	0.548	213.0	-16.0	-1.19	1.289	65.4	0.732	2.967	59.2	187.3	---	5.139	1.65	0.247	71.2	83.3	4.7	0.229
4-1050	4-2130	0.540	213.7	-16.4	-1.26	1.289	65.9	0.731	2.978	58.0	188.0	---	5.153	1.69	0.250	69.9	83.4	4.8	0.230
4-1050	4-2150	0.533	214.4	-16.9	-1.33	1.290	66.4	0.729	2.989	56.9	188.6	---	5.169	1.73	0.253	68.6	83.5	4.8	0.232
4-1050	4-2170	0.525	215.2	-17.4	-1.40	1.290	66.9	0.728	3.001	55.7	189.2	---	5.185	1.78	0.257	67.5	83.7	4.9	0.233
4-1050	4-2190	0.518	216.0	-17.9	-1.48	1.291	67.4	0.726	3.013	54.6	189.8	---	5.202	1.84	0.260	66.4	84.0	4.9	0.235
4-1050	4-2210	0.510	216.9	-18.5	-1.57	1.291	67.9	0.725	3.026	53.4	190.4	---	5.220	1.90	0.263	65.4	84.4	5.0	0.237
4-1050	4-2230	0.502	217.7	-19.0	-1.66	1.292	68.4	0.724	3.039	52.1	191.0	---	5.239	1.97	0.267	64.4	84.8	5.0	0.239
4-1050	4-2250	0.495	218.6	-19.6	-1.75	1.292	68.9	0.723	3.053	50.9	191.6	---	5.259	2.04	0.270	63.5	85.3	5.1	0.240
4-1050	4-2270	0.487	219.5	-20.3	-1.86	1.293	69.4	0.722	3.066	49.7	192.2	---	5.279	2.12	0.273	62.7	85.8	5.2	0.242
4-1050	4-2290	0.480	220.5	-21.0	-1.97	1.293	70.0	0.721	3.080	48.4	192.7	---	5.300	2.22	0.277	61.9	86.4	5.3	0.244
4-1050	4-2310	0.472	221.5	-21.7	-2.10	1.294	70.5	0.720	3.095	47.2	193.2	---	5.322	2.32	0.280	61.1	87.0	5.4	0.246
4-1050	4-2330	0.465	222.5	-22.5	-2.24	1.295	71.0	0.719	3.109	45.9	193.8	---	5.344	2.44	0.283	60.4	87.7	5.5	0.248
4-1050	4-2350	0.458	223.5	-23.3	-2.39	1.295	71.6	0.718	3.124	44.6	194.3	---	5.367	2.57	0.286	59.8	88.5	5.6	0.251
4-1050	4-2370	0.451	224.6	-24.3	-2.56	1.296	72.1	0.717	3.139	43.3	194.8	---	5.390	2.71	0.289	59.1	89.3	5.7	0.253
4-1050	4-2390	0.444	225.7	-25.3	-2.75	1.296	72.6	0.716	3.154	41.9	195.3	---	5.413	2.89	0.292	58.5	90.1	5.9	0.255
4-1050	4-2410	0.437	226.8	-26.4	-2.97	1.297	73.2	0.716	3.169	40.6	195.8	---	5.437	3.08	0.295	58.0	91.0	6.1	0.257
4-1050	4-2430	0.430	227.9	-27.6	-3.22	1.297	73.8	0.715	3.184	39.3	196.3	---	5.462	3.31	0.298	57.4	91.9	6.3	0.259
4-1050	4-2450	0.424	229.1	-28.9	-3.51	1.298	74.3	0.715	3.200	37.9	196.7	---	5.487	3.58	0.301	56.9	92.9	6.5	0.261
4-1050	4-2470	0.418	230.3	-30.5	-3.86	1.299	74.9	0.714	3.216	36.6	197.2	---	5.512	3.90	0.304	56.4	93.9	6.8	0.264
4-1050	4-2490	0.412	231.4	-32.3	-4.27	1.299	75.4	0.714	3.231	35.2	197.6	---	5.538	4.30	0.307	55.9	94.9	7.2	0.266
4-1050	4-2510	0.408	232.5	-34.4	-4.78	1.300	76.0	0.713	3.247	33.8	198.1	---	5.564	4.78	0.309	55.5	96.0	7.6	0.268
4-1050	4-2530	0.404	233.5	-36.9	-5.41	1.300	76.6	0.713	3.263	32.4	198.5	---	5.590	5.39	0.312	55.1	97.1	8.1	0.271
4-1050	4-2550	0.402	234.4	-40.0	-6.23	1.301	77.2	0.713	3.279	31.0	198.9	---	5.617	6.19	0.314	54.7	98.2	8.8	0.274
4-1050	4-2570	0.404	234.8	-44.0	-7.34	1.302	77.7	0.713	3.295	29.6	199.3	---	5.644	7.28	0.317	54.3	99.5	9.8	0.277
4-1050	4-2590	0.410	234.5	-49.2	-8.92	1.302	78.3	0.713	3.311	28.2	199.7	---	5.671	8.85	0.319	53.9	100.8	11.1	0.280
4-1050	4-2610	0.428	232.3	-56.3	-11.36	1.303	78.9	0.712	3.328	26.7	200.1	---	5.699	11.26	0.322	53.5	102.3	13.2	0.285
4-1050	4-2630	0.472	223.2	-66.2	-15.60	1.303	79.5	0.713	3.344	25.3	200.5	---	5.727	15.48	0.324	53.1	104.1	16.6	0.294
4-1050	4-2650	0.598	177.4	-75.7	-24.60	1.304	80.1	0.713	3.360	24.0	200.8	---	5.755	24.46	0.326	52.8	107.3	22.7	0.317
4-1060	4-1400	0.931	208.8	-11.3	0.39	1.412	48.0	1.00128.742		84.0	142.0	---	---	1.47	0.618	161.1	108.2	3.4	0.648
4-1060	4-1420	0.913	208.1	-11.1	0.34	1.391	48.1	0.96917.805		85.4	145.0	---	---	1.44	0.569	159.7	107.8	3.4	0.602
4-1060	4-1440	0.898	207.5	-11.0	0.29	1.374	48.3	0.943	9.568	86.5	147.8	---	---	1.42	0.525	158.1	107.4	3.4	0.561
4-1060	4-1460	0.884	207.0	-10.8	0.25	1.359	48.5	0.921	6.912	87.4	150.4	---	---	1.40	0.486	156.4	106.9	3.5	0.524
4-1060	4-1480	0.872	206.6	-10.8	0.20	1.347	48.7	0.903	5.611	88.2	152.7	---	---	1.38	0.451	154.5	106.3	3.5	0.491
4-1060	4-1500	0.861	206.4	-10.7	0.16	1.336	49.0	0.888	4.846	88.7	154.9	---	---	1.36	0.419	152.5	105.7	3.5	0.461
4-1060	4-1520	0.851	206.2	-10.7	0.12	1.327	49.2	0.875	4.347	89.1	157.0	---	---	1.34	0.391	150.4	105.0	3.6	0.435
4-1060	4-1540	0.842	206.0	-10.7	0.07	1.320	49.4	0.864	4.000	89.4	158.8	---	---	1.33	0.365	148.1	104.2	3.6	0.411
4-1060	4-1560	0.833	205.9	-10.7	0.03	1.313	49.7	0.854	3.747	89.5	160.6	---	---	1.32	0.342	145.6	103.4	3.6	0.389
4-1060	4-1580	0.825	205.9	-10.7	-0.01	1.308	50.0	0.846	3.556	89.5	162.3	---	---	1.30	0.321	143.0	102.5	3.7	0.370
4-1060	4-1600	0.816	206.0	-10.8	-0.04	1.303	50.3	0.838	3.409	89.4	163.8	---	---	1.29	0.302	140.2	101.6	3.7	0.352
4-1060	4-1620	0.809	206.1	-10.9	-0.08	1.299	50.6	0.832	3.294	89.1	165.3	---	---	1.28	0.286	137.2	100.6	3.8	0.337
4-1060	4-1640	0.801	206.2	-11.0	-0.12	1.296	50.9	0.825	3.203	88.9	166.6	---	---	1.27	0.271	134.1	99.6	3.8	0.322
4-1060	4-1660	0.793	206.3	-11.1	-0.16	1.293	51.3	0.820	3.130	88.5	167.9	---	---	1.27	0.259	130.8	98.5	3.8	0.310
4-1060	4-1680	0.786	206.5	-11.2	-0.20	1.291	51.6	0.815	3.071	88.0	169.2	---	---	1.26	0.248	127.4	97.4	3.9	0.299
4-1060	4-1700	0.778	206.8	-11.4	-0.23	1.289	52.0	0.810	3.023	87.5	170.4	---	---	1.26	0.238	124.0	96.2	3.9	0.289
4-1060	4-1720	0.771	207.0	-11.5	-0.27	1.287	52.3	0.806	2.985	87.0	171.5	---	---	1.25	0.230	120.4	95.1	3.9	0.280
4-1060	4-1740	0.763	207.3	-11.7	-0.31	1.286	52.7	0.802	2.954	86.4	172.6	---	---	1.25	0.224	116.8	93.9	4.0	0.272
4-1060	4-1760	0.756	207.6	-11.9	-0.35	1.285	53.1	0.798	2.929	85.7	173.6	---	---	1.25	0.218	113.2	92.8	4.0	0.265
4-1060	4-1780	0.748	208.0	-12.1	-0.38	1.284	53.5	0.794	2.910	85.0	174.6	---	---	1.25	0.214	109.7	91.7	4.0	0.259
4-1060	4-1800	0.741	208.3	-12.3	-0.42	1.283	53.9	0.791	2.895	84.2	175.6	---	---	1.25	0.211	106.2	90.6	4.1	0.254
4-1060	4-1820	0.733	208.7	-12.5	-0.46	1.283	54.3	0.788	2.883	83.5	176.5	---	---	1.25	0.210	102.8	89.6	4.1	0.250
4-1060	4-1840	0.726	209.1	-12.7	-0.49	1.282	54.7	0.785	2.875	82.6	177.4	---	---	1.25	0.208	99.5	88.6	4.1	0.246
4-1060	4-1860	0.718	209.6	-12.9	-0.53	1.282	55.2	0.782	2.870	81.8	178.2	---	---	1.25	0.208	96.3	87.7	4.1	0.243
4-1060	4-1880	0.711	210.0	-13.1	-0.57	1.282	55.6	0.779	2.867	80.9	179.1	---	---	1.26	0.209	93.3	86.8	4.2	0.241

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1060	4-1900	0.703	210.5	-13.4	-0.61	1.282	56.1	0.776	2.867	80.0	179.9	---	---	1.26	0.210	90.4	86.0	4.2	0.239
4-1060	4-1920	0.695	211.0	-13.6	-0.65	1.282	56.5	0.773	2.868	79.0	180.7	---	5.086	1.27	0.211	87.7	85.3	4.2	0.237
4-1060	4-1940	0.688	211.5	-13.9	-0.69	1.282	57.0	0.771	2.871	78.0	181.4	---	5.084	1.28	0.213	85.2	84.7	4.2	0.236
4-1060	4-1960	0.680	212.0	-14.2	-0.73	1.282	57.4	0.768	2.875	77.1	182.2	---	5.084	1.29	0.216	82.8	84.2	4.2	0.236
4-1060	4-1980	0.672	212.5	-14.4	-0.77	1.282	57.9	0.766	2.880	76.0	182.9	---	5.087	1.30	0.218	80.5	83.7	4.2	0.235
4-1060	4-2000	0.664	213.1	-14.7	-0.81	1.283	58.4	0.764	2.887	75.0	183.6	---	5.092	1.31	0.221	78.5	83.3	4.3	0.235
4-1060	4-2020	0.656	213.7	-15.0	-0.85	1.283	58.8	0.762	2.895	73.9	184.3	---	5.099	1.33	0.224	76.5	83.0	4.3	0.235
4-1060	4-2040	0.648	214.2	-15.3	-0.90	1.284	59.3	0.759	2.903	72.9	185.0	---	5.108	1.34	0.228	74.7	82.8	4.3	0.236
4-1060	4-2060	0.640	214.9	-15.7	-0.94	1.284	59.8	0.757	2.913	71.8	185.7	---	5.119	1.36	0.231	73.1	82.7	4.3	0.236
4-1060	4-2080	0.632	215.5	-16.0	-0.99	1.284	60.3	0.755	2.923	70.6	186.3	---	5.130	1.38	0.235	71.5	82.6	4.3	0.237
4-1060	4-2100	0.624	216.1	-16.3	-1.04	1.285	60.8	0.753	2.934	69.5	187.0	---	5.144	1.40	0.238	70.1	82.7	4.4	0.238
4-1060	4-2120	0.615	216.8	-16.7	-1.09	1.285	61.3	0.751	2.945	68.4	187.6	---	5.158	1.43	0.242	68.7	82.8	4.4	0.239
4-1060	4-2140	0.607	217.5	-17.0	-1.14	1.286	61.8	0.750	2.957	67.2	188.2	---	5.173	1.45	0.246	67.5	82.9	4.4	0.241
4-1060	4-2160	0.599	218.2	-17.4	-1.19	1.286	62.3	0.748	2.970	66.0	188.8	---	5.190	1.48	0.249	66.3	83.2	4.4	0.242
4-1060	4-2180	0.591	218.9	-17.8	-1.25	1.287	62.9	0.746	2.982	64.8	189.4	---	5.207	1.51	0.253	65.2	83.5	4.5	0.243
4-1060	4-2200	0.582	219.7	-18.2	-1.31	1.288	63.4	0.744	2.996	63.6	190.0	---	5.225	1.55	0.257	64.2	83.9	4.5	0.245
4-1060	4-2220	0.574	220.5	-18.6	-1.37	1.288	63.9	0.743	3.009	62.4	190.6	---	5.244	1.58	0.260	63.2	84.3	4.5	0.247
4-1060	4-2240	0.566	221.3	-19.1	-1.44	1.289	64.4	0.741	3.023	61.1	191.1	---	5.264	1.63	0.264	62.3	84.8	4.6	0.248
4-1060	4-2260	0.557	222.1	-19.5	-1.50	1.289	65.0	0.739	3.038	59.9	191.7	---	5.284	1.67	0.267	61.5	85.3	4.6	0.250
4-1060	4-2280	0.549	223.0	-20.0	-1.58	1.290	65.5	0.738	3.052	58.6	192.2	---	5.305	1.72	0.271	60.7	85.9	4.7	0.252
4-1060	4-2300	0.541	223.8	-20.5	-1.65	1.291	66.1	0.737	3.067	57.3	192.7	---	5.326	1.77	0.274	60.0	86.6	4.7	0.253
4-1060	4-2320	0.532	224.7	-21.0	-1.74	1.291	66.6	0.735	3.082	56.1	193.3	---	5.348	1.83	0.278	59.3	87.3	4.8	0.255
4-1060	4-2340	0.524	225.7	-21.6	-1.83	1.292	67.2	0.734	3.098	54.8	193.8	---	5.371	1.90	0.281	58.7	88.1	4.8	0.257
4-1060	4-2360	0.516	226.6	-22.1	-1.92	1.293	67.7	0.733	3.113	53.4	194.3	---	5.394	1.97	0.285	58.1	88.8	4.9	0.259
4-1060	4-2380	0.508	227.6	-22.7	-2.02	1.293	68.3	0.731	3.129	52.1	194.8	---	5.417	2.05	0.288	57.5	89.7	5.0	0.261
4-1060	4-2400	0.499	228.6	-23.4	-2.14	1.294	68.8	0.730	3.145	50.8	195.3	---	5.441	2.14	0.291	57.0	90.6	5.1	0.263
4-1060	4-2420	0.491	229.7	-24.1	-2.26	1.294	69.4	0.729	3.161	49.4	195.7	---	5.465	2.24	0.294	56.5	91.5	5.1	0.265
4-1060	4-2440	0.483	230.8	-24.8	-2.39	1.295	70.0	0.728	3.177	48.1	196.2	---	5.490	2.36	0.297	56.0	92.4	5.2	0.267
4-1060	4-2460	0.475	231.9	-25.6	-2.54	1.296	70.5	0.727	3.193	46.7	196.7	---	5.514	2.49	0.300	55.5	93.4	5.4	0.268
4-1060	4-2480	0.468	233.0	-26.4	-2.71	1.296	71.1	0.726	3.209	45.3	197.1	---	5.540	2.63	0.303	55.1	94.4	5.5	0.270
4-1060	4-2500	0.460	234.2	-27.4	-2.90	1.297	71.7	0.725	3.226	44.0	197.5	---	5.565	2.80	0.306	54.7	95.5	5.6	0.272
4-1060	4-2520	0.453	235.4	-28.4	-3.11	1.297	72.3	0.725	3.242	42.6	198.0	---	5.591	2.99	0.309	54.3	96.5	5.8	0.274
4-1060	4-2540	0.445	236.7	-29.5	-3.36	1.298	72.9	0.724	3.259	41.2	198.4	---	5.617	3.22	0.311	53.9	97.6	6.0	0.276
4-1060	4-2560	0.438	237.9	-30.8	-3.65	1.299	73.5	0.723	3.275	39.7	198.8	---	5.644	3.49	0.314	53.5	98.8	6.2	0.278
4-1060	4-2580	0.432	239.2	-32.3	-3.99	1.299	74.0	0.723	3.292	38.3	199.2	---	5.670	3.81	0.316	53.2	99.9	6.5	0.280
4-1060	4-2600	0.426	240.5	-34.0	-4.40	1.300	74.6	0.722	3.309	36.9	199.6	---	5.697	4.20	0.319	52.9	101.1	6.8	0.282
4-1060	4-2620	0.421	241.8	-36.0	-4.90	1.300	75.2	0.721	3.325	35.4	200.0	---	5.725	4.68	0.321	52.5	102.4	7.2	0.284
4-1060	4-2640	0.417	243.0	-38.4	-5.54	1.301	75.8	0.721	3.342	34.0	200.4	---	5.752	5.29	0.324	52.2	103.6	7.7	0.287
4-1060	4-2660	0.414	244.1	-41.4	-6.37	1.302	76.4	0.721	3.359	32.5	200.8	---	5.780	6.10	0.326	51.9	104.9	8.4	0.289
4-1070	4-1410	1.045	210.9	-12.2	0.41	1.399	40.9	0.98733.563		99.0	148.1	---	---	1.54	0.592	162.8	106.2	3.4	0.639
4-1070	4-1430	1.025	210.5	-12.1	0.35	1.379	41.3	0.96411.768		100.0	150.7	---	---	1.50	0.543	161.3	105.8	3.4	0.595
4-1070	4-1450	1.007	210.1	-12.0	0.30	1.362	41.6	0.944	7.665	100.7	153.1	---	---	1.47	0.500	159.7	105.3	3.4	0.555
4-1070	4-1470	0.992	209.9	-12.0	0.25	1.348	42.0	0.928	5.946	101.3	155.2	---	---	1.44	0.462	158.0	104.7	3.4	0.519
4-1070	4-1490	0.977	209.7	-11.9	0.20	1.337	42.3	0.914	5.010	101.6	157.2	---	---	1.41	0.427	156.1	104.0	3.5	0.488
4-1070	4-1510	0.965	209.6	-11.9	0.15	1.327	42.7	0.903	4.427	101.8	159.1	---	---	1.38	0.396	154.0	103.3	3.5	0.459
4-1070	4-1530	0.953	209.5	-12.0	0.10	1.319	43.1	0.892	4.034	101.9	160.8	---	---	1.36	0.367	151.8	102.5	3.5	0.434
4-1070	4-1550	0.941	209.6	-12.0	0.06	1.312	43.4	0.883	3.753	101.8	162.4	---	---	1.33	0.342	149.4	101.6	3.6	0.411
4-1070	4-1570	0.931	209.6	-12.1	0.02	1.306	43.8	0.875	3.545	101.7	163.9	---	---	1.31	0.319	146.8	100.7	3.6	0.390
4-1070	4-1590	0.921	209.7	-12.2	-0.03	1.300	44.2	0.868	3.387	101.4	165.3	---	---	1.29	0.299	144.0	99.8	3.6	0.372
4-1070	4-1610	0.911	209.9	-12.3	-0.07	1.296	44.6	0.862	3.265	101.0	166.6	---	---	1.28	0.281	141.0	98.8	3.7	0.355
4-1070	4-1630	0.902	210.0	-12.4	-0.11	1.293	45.0	0.856	3.168	100.6	167.8	---	---	1.26	0.264	137.8	97.8	3.7	0.340
4-1070	4-1650	0.893	210.2	-12.5	-0.15	1.290	45.5	0.850	3.092	100.1	169.0	---	---	1.24	0.250	134.5	96.7	3.7	0.327
4-1070	4-1670	0.884	210.5	-12.6	-0.19	1.287	45.9	0.845	3.030	99.6	170.1	---	---	1.23	0.238	130.9	95.6	3.8	0.315
4-1070	4-1690	0.875	210.8	-12.8	-0.22	1.285	46.3	0.841	2.981	99.0	171.2	---	---	1.22	0.227	127.2	94.5	3.8	0.305
4-1070	4-1710	0.866	211.1	-12.9	-0.26	1.283	46.7	0.836	2.942	98.3	172.2	---	---	1.21	0.219	123.4	93.4	3.8	0.295
4-1070	4-1730	0.857	211.4	-13.1	-0.30	1.282	47.2	0.832	2.910	97.6	173.2	---	---	1.20	0.211	119.5	92.3	3.8	0.287
4-1070	4-1750	0.849	211.7	-13.2	-0.33	1.281	47.6	0.828	2.885	96.8	174.1	---	---	1.19	0.205	115.6	91.2	3.9	0.280
4-1070	4-1770	0.840	212.1	-13.4	-0.37	1.280	48.1	0.824	2.865	96.0	175.0	---	---	1.18	0.201	111.7	90.2	3.9	0.274
4-1070	4-1790	0.832	212.4	-13.6	-0.41	1.279	48.6	0.820	2.850	95.2	175.9	---	---	1.18	0.198	107.8	89.1	3.9	0.269
4-1070	4-1810	0.824	212.8	-13.8	-0.44	1.278	49.0	0.817	2.839	94.3	176.8	---	---	1.17	0.196	104.0	88.2	3.9	0.264
4-1070	4-1830	0.815	213.3	-14.0	-0.48	1.278	49.5	0.814	2.832	93.4	177.6	---	---	1.17	0.194	100.4	87.3	3.9	0.260
4-1070	4-1850	0.807	213.7	-14.2	-0.51	1.278	50.0	0.810	2.827	92.5	178.4	---	---	1.16	0.194	96.9	86.4	3.9	0.257
4-1070	4-1870	0.798	214.1	-14.4	-0.55	1.278	50.5	0.807	2.824	91.6	179.2	---	---	1.16	0.195	93.5	85.6	3.9	0.254
4-1070	4-1890	0.790	214.6	-14.6	-0.58	1.278	51.0	0.804	2.824	90.6	179.9	---	---	1.16	0.196	90.4	84.9	4.0	0.252
4-1070	4-1910	0.781	215.1	-14.8	-0.62	1.278	51.5	0.801	2.826	89.6	180.6	---	5.089	1.16	0.198	87.4	84.2	4.0	0.250
4-1070	4-1930	0.773	215.6	-15.1	-0.65	1.278	52.0	0.798	2.829	88.8	181.4	---	5.087	1.16	0.200	84.6	83.7	4.0	0.249
4-1070	4-1950	0.764	216.1	-15.3	-0.69	1.278	52.5	0.795	2.834	87.5	182.1	---	5.088	1.16	0.203	82.0	83.2	4.0	0.248
4-1070	4-1970	0.755	216.6	-15.5	-0.72	1.278	53.0	0.793	2.840	86.5	182.8	---	5.091	1.17	0.206	79.6	82.8	4.0	0.248
4-1070	4-1990	0.747	217.1	-15.8	-0.76	1.279	53.5	0.790	2.847	85.4	183.4	---	5.096	1.17	0.209	77.4	82.5	4.0	0.247
4-1070	4-2010	0.738	217.7	-16.0	-0.80	1.279	54.0	0.787	2.855	84.3	184.1	---	5.104	1.18	0.213	75.4	82.2	4.0	0.247
4-1070	4-2030	0.730	218.3	-16.3	-0.83	1.280	54.5	0.785	2.865	83.2	184.7	---	5.113	1.19	0.217	73.5	82.1	4.0	0.248
4-1070	4-2050	0.721	218.8	-16.6	-0.87	1.280	55.0	0.782	2.875	82.1	185.4	---	5.123	1.19	0.221	71.7	82.0	4.0	0.248
4-1070	4-2070	0.712	219.4	-16.8	-0.91	1.281	55.6	0.780	2.885	80.9	186.0	---	5.136	1.20	0.224	70.1	82.0	4.1	0.249
4-1070	4-2090	0.703	220.1	-17.1	-0.95	1.281	56.1	0.777	2.897	79.8	186.6	---	5.149	1.21	0.228	68.6	82.0	4.1	0.249
4-1070	4-2110	0.694	220.7	-17.4	-0.99	1.282	56.6	0.775	2.909	78.6	187.2	---	5.164	1.23	0.233	67.2	82.2	4.1	0.250
4-1070	4-2130	0.686	221.3	-17.7	-1.03	1.282	57.2	0.773	2.921	77.4	187.8	---	5.179	1.24	0.237	65.9	82.4	4.1	0.251
4-1070	4-2150	0.677	222.0	-18.0	-1.07	1.283	57.7	0.771	2.935	76.2	188.4	---	5.196	1.25	0.241	64.7	82.6	4.1	0.252
4-1070	4-2170	0.668	222.7	-18.3	-1.11	1.283	58.2	0.768	2.948	75.0	188.9	---	5.213	1.27	0.245	63.6	83.0	4.1	0.254
4-1070	4-2190	0.659	223.4	-18.6	-1.16	1.284	58.8	0.766	2.962	73.7	189.5	---	5.232	1.29	0.249	62.6	83.4	4.2	0.255
4-1070	4-2210	0.650	224.1	-18.9	-1.20	1.285	59.3	0.764	2.976	72.5	190.0	---	5.251	1.31	0.253	61.7	83.8	4.2	0.256

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1070	4-2230	0.641	224.8	-19.3	-1.25	1.285	59.9	0.762	2.991	71.3	190.6	---	5.270	1.33	0.257	60.8	84.3	4.2	0.258
4-1070	4-2250	0.632	225.6	-19.6	-1.30	1.286	60.5	0.760	3.006	70.0	191.1	---	5.291	1.36	0.260	60.0	84.9	4.2	0.259
4-1070	4-2270	0.623	226.3	-20.0	-1.35	1.287	61.0	0.758	3.021	68.7	191.7	---	5.312	1.38	0.264	59.2	85.5	4.3	0.261
4-1070	4-2290	0.614	227.1	-20.3	-1.40	1.287	61.6	0.756	3.036	67.4	192.2	---	5.333	1.41	0.268	58.5	86.2	4.3	0.262
4-1070	4-2310	0.605	228.0	-20.7	-1.46	1.288	62.1	0.755	3.052	66.1	192.7	---	5.355	1.45	0.272	57.9	86.9	4.3	0.264
4-1070	4-2330	0.596	228.8	-21.1	-1.52	1.289	62.7	0.753	3.068	64.8	193.2	---	5.377	1.48	0.275	57.3	87.7	4.4	0.265
4-1070	4-2350	0.587	229.6	-21.5	-1.58	1.289	63.3	0.751	3.084	63.5	193.7	---	5.400	1.52	0.279	56.7	88.5	4.4	0.267
4-1070	4-2370	0.578	230.5	-21.9	-1.64	1.290	63.8	0.749	3.100	62.2	194.2	---	5.424	1.56	0.282	56.1	89.3	4.4	0.269
4-1070	4-2390	0.569	231.4	-22.3	-1.71	1.291	64.4	0.748	3.117	60.8	194.6	---	5.447	1.61	0.286	55.6	90.2	4.5	0.270
4-1070	4-2410	0.560	232.4	-22.8	-1.78	1.291	65.0	0.746	3.133	59.5	195.1	---	5.471	1.66	0.289	55.2	91.1	4.5	0.272
4-1070	4-2430	0.551	233.3	-23.3	-1.86	1.292	65.6	0.745	3.150	58.1	195.6	---	5.496	1.72	0.292	54.7	92.0	4.6	0.274
4-1070	4-2450	0.543	234.3	-23.8	-1.95	1.293	66.2	0.743	3.167	56.8	196.0	---	5.520	1.78	0.296	54.3	93.0	4.6	0.275
4-1070	4-2470	0.534	235.4	-24.3	-2.04	1.293	66.8	0.742	3.183	55.4	196.5	---	5.545	1.85	0.299	53.9	94.0	4.7	0.277
4-1070	4-2490	0.525	236.4	-24.8	-2.13	1.294	67.3	0.741	3.200	54.0	196.9	---	5.570	1.93	0.302	53.5	95.1	4.7	0.279
4-1070	4-2510	0.516	237.5	-25.4	-2.24	1.294	67.9	0.739	3.217	52.6	197.4	---	5.596	2.01	0.305	53.2	96.1	4.8	0.280
4-1070	4-2530	0.508	238.6	-26.0	-2.36	1.295	68.5	0.738	3.234	51.2	197.8	---	5.622	2.11	0.307	52.8	97.2	4.9	0.282
4-1070	4-2550	0.499	239.8	-26.7	-2.49	1.296	69.1	0.737	3.252	49.8	198.2	---	5.648	2.22	0.310	52.5	98.3	5.0	0.284
4-1070	4-2570	0.491	241.0	-27.4	-2.63	1.296	69.7	0.736	3.269	48.4	198.6	---	5.674	2.34	0.313	52.2	99.5	5.1	0.285
4-1070	4-2590	0.482	242.2	-28.2	-2.79	1.297	70.3	0.735	3.286	46.9	199.0	---	5.701	2.48	0.316	51.9	100.7	5.2	0.287
4-1070	4-2610	0.474	243.5	-29.0	-2.97	1.298	70.9	0.734	3.303	45.5	199.4	---	5.727	2.64	0.318	51.6	101.9	5.3	0.289
4-1070	4-2630	0.466	244.8	-30.0	-3.17	1.298	71.5	0.733	3.321	44.1	199.8	---	5.754	2.83	0.321	51.3	103.1	5.4	0.290
4-1070	4-2650	0.458	246.1	-31.0	-3.41	1.299	72.1	0.732	3.338	42.6	200.2	---	5.782	3.04	0.323	51.1	104.3	5.6	0.292
4-1070	4-2670	0.451	247.5	-32.2	-3.69	1.299	72.8	0.731	3.355	41.2	200.6	---	5.809	3.30	0.325	50.8	105.6	5.8	0.294
4-1080	4-1420	1.160	213.8	-13.2	0.45	1.387	33.8	0.98217.168		114.1	154.3	---	---	1.62	0.567	164.9	104.1	3.4	0.636
4-1080	4-1440	1.138	213.6	-13.2	0.38	1.368	34.3	0.966	9.036	114.5	156.4	---	---	1.56	0.519	163.5	103.6	3.4	0.592
4-1080	4-1460	1.118	213.4	-13.2	0.32	1.352	34.8	0.952	6.503	114.8	158.2	---	---	1.52	0.477	161.9	103.0	3.4	0.553
4-1080	4-1480	1.100	213.4	-13.2	0.26	1.339	35.3	0.940	5.279	114.9	160.0	---	---	1.47	0.438	160.1	102.3	3.4	0.519
4-1080	4-1500	1.084	213.3	-13.3	0.20	1.328	35.8	0.930	4.565	114.8	161.6	---	---	1.43	0.404	158.2	101.5	3.4	0.488
4-1080	4-1520	1.069	213.4	-13.3	0.14	1.318	36.3	0.921	4.103	114.6	163.0	---	---	1.40	0.373	156.1	100.7	3.5	0.461
4-1080	4-1540	1.055	213.5	-13.4	0.09	1.310	36.8	0.913	3.782	114.4	164.4	---	---	1.36	0.345	153.8	99.9	3.5	0.436
4-1080	4-1560	1.042	213.6	-13.5	0.04	1.304	37.3	0.906	3.550	114.0	165.7	---	---	1.33	0.319	151.3	99.0	3.5	0.414
4-1080	4-1580	1.030	213.8	-13.6	-0.01	1.298	37.9	0.899	3.376	113.6	166.9	---	---	1.30	0.297	148.6	98.0	3.5	0.394
4-1080	4-1600	1.018	214.0	-13.7	-0.05	1.294	38.4	0.893	3.243	113.0	168.0	---	---	1.27	0.276	145.7	97.0	3.6	0.377
4-1080	4-1620	1.007	214.2	-13.8	-0.10	1.290	38.9	0.887	3.139	112.5	169.1	---	---	1.25	0.258	142.5	96.0	3.6	0.361
4-1080	4-1640	0.996	214.5	-13.9	-0.14	1.286	39.4	0.882	3.057	111.8	170.2	---	---	1.23	0.242	139.0	94.9	3.6	0.347
4-1080	4-1660	0.985	214.8	-14.0	-0.18	1.284	39.9	0.877	2.992	111.1	171.1	---	---	1.21	0.228	135.4	93.9	3.6	0.335
4-1080	4-1680	0.975	215.1	-14.2	-0.22	1.281	40.4	0.872	2.941	110.4	172.1	---	---	1.19	0.216	131.5	92.8	3.7	0.324
4-1080	4-1700	0.965	215.4	-14.3	-0.26	1.279	40.9	0.868	2.899	109.6	173.0	---	---	1.17	0.206	127.4	91.8	3.7	0.314
4-1080	4-1720	0.955	215.8	-14.5	-0.30	1.278	41.4	0.864	2.867	108.8	173.8	---	---	1.15	0.198	123.2	90.7	3.7	0.305
4-1080	4-1740	0.945	216.1	-14.7	-0.34	1.277	42.0	0.859	2.841	107.9	174.7	---	---	1.14	0.191	118.9	89.7	3.7	0.298
4-1080	4-1760	0.936	216.5	-14.8	-0.37	1.276	42.5	0.856	2.821	107.0	175.5	---	---	1.12	0.186	114.5	88.7	3.7	0.291
4-1080	4-1780	0.926	216.9	-15.0	-0.41	1.275	43.0	0.852	2.805	106.1	176.3	---	---	1.11	0.182	110.2	87.7	3.7	0.285
4-1080	4-1800	0.917	217.3	-15.2	-0.44	1.274	43.5	0.848	2.794	105.2	177.0	---	---	1.10	0.180	105.9	86.8	3.7	0.280
4-1080	4-1820	0.907	217.8	-15.4	-0.48	1.274	44.1	0.844	2.787	104.2	177.8	---	---	1.09	0.178	101.7	86.0	3.7	0.276
4-1080	4-1840	0.898	218.2	-15.6	-0.51	1.274	44.6	0.841	2.782	103.2	178.5	---	---	1.08	0.178	97.8	85.2	3.8	0.273
4-1080	4-1860	0.889	218.7	-15.7	-0.54	1.274	45.2	0.837	2.780	102.2	179.2	---	---	1.07	0.179	94.0	84.4	3.8	0.270
4-1080	4-1880	0.879	219.1	-15.9	-0.58	1.274	45.7	0.834	2.780	101.2	179.9	---	---	1.06	0.180	90.4	83.8	3.8	0.267
4-1080	4-1900	0.870	219.6	-16.1	-0.61	1.274	46.2	0.831	2.782	100.1	180.6	---	5.093	1.06	0.183	87.1	83.2	3.8	0.265
4-1080	4-1920	0.861	220.1	-16.3	-0.64	1.274	46.8	0.828	2.785	99.0	181.3	---	5.091	1.05	0.185	84.0	82.7	3.8	0.264
4-1080	4-1940	0.851	220.6	-16.5	-0.67	1.274	47.3	0.824	2.791	98.0	181.9	---	5.091	1.05	0.188	81.2	82.3	3.8	0.263
4-1080	4-1960	0.842	221.2	-16.8	-0.70	1.274	47.9	0.821	2.797	96.8	182.5	---	5.095	1.05	0.192	78.5	81.9	3.8	0.262
4-1080	4-1980	0.833	221.7	-17.0	-0.74	1.275	48.4	0.818	2.805	95.7	183.2	---	5.100	1.05	0.196	76.1	81.7	3.8	0.261
4-1080	4-2000	0.824	222.2	-17.2	-0.77	1.275	49.0	0.815	2.814	94.6	183.8	---	5.108	1.04	0.200	73.9	81.5	3.8	0.261
4-1080	4-2020	0.814	222.8	-17.4	-0.80	1.276	49.6	0.812	2.823	93.4	184.4	---	5.117	1.04	0.204	71.9	81.4	3.8	0.261
4-1080	4-2040	0.805	223.4	-17.6	-0.83	1.276	50.1	0.809	2.834	92.3	185.0	---	5.128	1.05	0.208	70.0	81.3	3.8	0.261
4-1080	4-2060	0.795	223.9	-17.9	-0.87	1.277	50.7	0.807	2.845	91.1	185.6	---	5.141	1.05	0.213	68.3	81.4	3.8	0.262
4-1080	4-2080	0.786	224.5	-18.1	-0.90	1.277	51.2	0.804	2.857	89.9	186.2	---	5.154	1.05	0.217	66.8	81.5	3.8	0.262
4-1080	4-2100	0.777	225.1	-18.3	-0.93	1.278	51.8	0.801	2.870	88.7	186.7	---	5.169	1.05	0.222	65.3	81.6	3.8	0.263
4-1080	4-2120	0.767	225.8	-18.6	-0.96	1.279	52.4	0.799	2.883	87.5	187.3	---	5.185	1.06	0.226	64.0	81.9	3.9	0.264
4-1080	4-2140	0.758	226.4	-18.8	-1.00	1.279	52.9	0.796	2.897	86.3	187.8	---	5.202	1.07	0.231	62.8	82.2	3.9	0.265
4-1080	4-2160	0.748	227.0	-19.1	-1.03	1.280	53.5	0.793	2.911	85.0	188.4	---	5.220	1.07	0.235	61.7	82.5	3.9	0.266
4-1080	4-2180	0.739	227.7	-19.3	-1.07	1.281	54.1	0.791	2.925	83.8	188.9	---	5.238	1.08	0.240	60.7	82.9	3.9	0.267
4-1080	4-2200	0.729	228.4	-19.6	-1.10	1.281	54.7	0.788	2.940	82.5	189.5	---	5.258	1.09	0.244	59.8	83.4	3.9	0.268
4-1080	4-2220	0.720	229.0	-19.9	-1.14	1.282	55.3	0.786	2.955	81.2	190.0	---	5.278	1.10	0.248	58.9	84.0	3.9	0.269
4-1080	4-2240	0.710	229.8	-20.1	-1.17	1.283	55.8	0.783	2.971	80.0	190.5	---	5.298	1.11	0.252	58.1	84.5	3.9	0.270
4-1080	4-2260	0.701	230.5	-20.4	-1.21	1.283	56.4	0.781	2.986	78.7	191.0	---	5.319	1.13	0.257	57.4	85.2	4.0	0.272
4-1080	4-2280	0.691	231.2	-20.7	-1.25	1.284	57.0	0.779	3.002	77.4	191.5	---	5.341	1.14	0.261	56.7	85.8	4.0	0.273
4-1080	4-2300	0.682	232.0	-21.0	-1.29	1.285	57.6	0.777	3.019	76.1	192.0	---	5.363	1.16	0.265	56.1	86.6	4.0	0.274
4-1080	4-2320	0.672	232.7	-21.3	-1.33	1.285	58.2	0.774	3.035	74.7	192.5	---	5.386	1.18	0.269	55.5	87.3	4.0	0.276
4-1080	4-2340	0.663	233.5	-21.6	-1.38	1.286	58.8	0.772	3.052	73.4	193.0	---	5.408	1.20	0.272	54.9	88.1	4.0	0.277
4-1080	4-2360	0.653	234.3	-21.9	-1.42	1.287	59.4	0.770	3.069	72.1	193.5	---	5.432	1.22	0.276	54.4	89.0	4.1	0.278
4-1080	4-2380	0.644	235.1	-22.2	-1.47	1.287	59.9	0.768	3.085	70.7	193.9	---	5.455	1.25	0.280	54.0	89.8	4.1	0.280
4-1080	4-2400	0.634	236.0	-22.5	-1.52	1.288	60.5	0.766	3.103	69.4	194.4	---	5.479	1.28	0.283	53.5	90.8	4.1	0.281
4-1080	4-2420	0.624	236.9	-22.9	-1.57	1.289	61.1	0.764	3.120	68.0	194.9	---	5.504	1.30	0.287	53.1	91.7	4.1	0.283
4-1080	4-2440	0.615	237.7	-23.2	-1.62	1.290	61.7	0.762	3.137	66.7	195.3	---	5.528	1.34	0.290	52.7	92.7	4.2	0.284
4-1080	4-2460	0.605	238.7	-23.6	-1.68	1.290	62.3	0.760	3.154	65.3	195.8	---	5.553	1.37	0.294	52.4	93.7	4.2	0.286
4-1080	4-2480	0.596	239.6	-23.9	-1.73	1.291	62.9	0.759	3.172	63.9	196.2	---	5.578	1.41	0.297	52.0	94.7	4.2	0.287
4-1080	4-2500	0.586	240.6	-24.3	-1.80	1.292	63.5	0.757	3.189	62.5	196.7	---	5.604	1.46	0.300	51.7	95.8	4.2	0.288
4-1080	4-2520	0.577	241.6	-24.7	-1.86	1.292	64.2	0.755	3.207	61.1	197.1	---	5.629	1.50	0.303	51.4	96.9	4.3	0.290
4-1080	4-2540	0.568	242.6	-25.1	-1.94	1.293	64.8	0.754	3.225	59.7	197.5	---	5.655	1.55	0.306	51.1	98.0	4.3	0.291

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1080	4-256C	0.558	243.6	-25.5	-2.01	1.294	65.4	0.752	3.243	58.3	197.9	---	5.681	1.61	0.309	50.9	99.1	4.3	0.293
4-1080	4-258C	0.549	24417	-26.0	-2.10	1.294	66.0	0.751	3.260	56.8	198.3	---	5.707	1.68	0.312	50.6	100.3	4.4	0.294
4-1080	4-2600	0.540	245.8	-26.5	-2.19	1.295	66.6	0.749	3.278	55.4	198.7	---	5.734	1.75	0.314	50.4	101.5	4.4	0.295
4-1080	4-262C	0.531	247.0	-27.0	-2.28	1.295	67.2	0.748	3.296	54.0	199.1	---	5.761	1.83	0.317	50.2	102.7	4.5	0.297
4-1080	4-264C	0.521	248.2	-27.5	-2.39	1.296	67.8	0.746	3.314	52.5	199.5	---	5.788	1.92	0.320	49.9	103.9	4.5	0.298
4-1080	4-2660	0.513	249.4	-28.1	-2.51	1.297	68.4	0.745	3.332	51.1	199.9	---	5.815	2.02	0.322	49.7	105.2	4.6	0.300
4-1080	4-2680	0.504	250.7	-28.7	-2.64	1.297	69.1	0.744	3.350	49.6	200.3	---	5.842	2.13	0.325	49.5	106.4	4.7	0.301
4-1090	4-1430	1.276	217.2	-14.4	0.52	1.377	26.5	0.98412.156		128.9	160.3	---	---	1.72	0.546	167.5	101.9	3.3	0.637
4-1090	4-145C	1.251	217.2	-14.5	0.43	1.358	27.2	0.974	7.544	128.8	161.8	---	---	1.65	0.498	166.1	101.3	3.3	0.594
4-1090	4-1470	1.229	217.2	-14.5	0.35	1.343	27.9	0.964	5.753	128.5	163.2	---	---	1.58	0.455	164.6	100.6	3.4	0.556
4-1090	4-1490	1.209	217.3	-14.6	0.28	1.330	28.6	0.956	4.811	128.2	164.4	---	---	1.52	0.417	162.9	99.8	3.4	0.523
4-1090	4-151C	1.190	217.4	-14.6	0.21	1.320	29.2	0.949	4.236	127.7	165.6	---	---	1.46	0.382	161.0	99.0	3.4	0.493
4-1090	4-1530	1.173	217.6	-14.7	0.14	1.311	29.9	0.942	3.854	127.1	166.7	---	---	1.41	0.351	158.9	98.2	3.4	0.466
4-1090	4-1550	1.158	217.8	-14.8	0.08	1.303	30.5	0.935	3.584	126.5	167.7	---	---	1.36	0.323	156.6	97.3	3.4	0.443
4-1090	4-157C	1.143	21811	-15.0	0.02	1.297	31.2	0.929	3.386	125.9	168.7	---	---	1.32	0.298	154.0	96.3	3.5	0.422
4-1090	4-159C	1.129	218.3	-15.1	-0.03	1.292	31.8	0.924	3.237	125.1	169.7	---	---	1.28	0.275	151.2	95.3	3.5	0.403
4-1090	4-1610	1.116	218.6	-15.2	-0.09	1.287	32.4	0.919	3.122	124.4	170.6	---	---	1.24	0.254	148.1	94.3	3.5	0.386
4-1090	4-1630	1.103	218.9	-15.3	-0.13	1.284	33.0	0.914	3.032	123.6	171.4	---	---	1.21	0.236	144.7	93.3	3.5	0.371
4-1090	4-165C	1.091	219.3	-15.5	-0.18	1.280	33.6	0.909	2.962	122.7	172.2	---	---	1.18	0.220	141.0	92.3	3.5	0.358
4-1090	4-1670	1.079	219.6	-15.6	-0.23	1.278	34.2	0.904	2.906	121.8	173.0	---	---	1.15	0.206	137.0	91.3	3.5	0.346
4-1090	4-1690	1.067	220.0	-15.8	-0.27	1.276	34.8	0.900	2.862	120.9	173.8	---	---	1.13	0.194	132.7	90.2	3.5	0.335
4-1090	4-171C	1.056	220.4	-15.9	-0.31	1.274	35.5	0.896	2.827	120.0	174.5	---	---	1.10	0.184	128.2	89.2	3.6	0.326
4-1090	4-1730	1.045	220.8	-16.1	-0.35	1.273	36.1	0.892	2.800	119.0	175.3	---	---	1.08	0.176	123.4	88.3	3.6	0.318
4-1090	4-1750	1.034	221.2	-16.3	-0.39	1.272	36.7	0.888	2.778	118.0	176.0	---	---	1.06	0.170	118.6	87.3	3.6	0.311
4-1090	4-1770	1.023	221.7	-16.4	-0.42	1.271	37.3	0.884	2.762	117.0	176.7	---	---	1.04	0.165	113.6	86.4	3.6	0.305
4-1090	4-179C	1.013	22241	-16.6	-0.46	1.270	37.9	0.880	2.751	116.0	177.3	---	---	1.02	0.162	108.7	85.6	3.6	0.299
4-1090	4-1810	1.002	222.6	-16.8	-0.49	1.270	38.5	0.876	2.742	114.9	178.0	---	---	1.01	0.161	103.9	84.8	3.6	0.295
4-1090	4-1830	0.992	223.1	-16.9	-0.52	1.270	39.1	0.872	2.738	113.8	178.6	---	---	0.99	0.160	99.2	84.1	3.6	0.291
4-1090	4-185C	0.982	223.5	-17.1	-0.56	1.270	39.7	0.869	2.735	112.8	179.3	---	---	0.98	0.161	94.8	83.4	3.6	0.288
4-1090	4-1870	0.972	224.0	-17.3	-0.59	1.270	40.3	0.865	2.735	111.7	179.9	---	---	0.97	0.163	90.7	82.8	3.6	0.285
4-1090	4-189C	0.961	224.5	-17.5	-0.62	1.270	40.9	0.862	2.738	110.5	180.5	---	5.096	0.96	0.165	86.9	82.3	3.6	0.283
4-1090	4-191C	0.951	225.0	-17.7	-0.65	1.270	41.5	0.858	2.741	109.4	181.1	---	5.094	0.95	0.168	83.4	81.9	3.6	0.281
4-1090	4-193C	0.941	225.5	-17.8	-0.68	1.270	42.1	0.855	2.747	108.3	181.7	---	5.094	0.94	0.172	80.2	81.5	3.6	0.279
4-1090	4-1950	0.931	226.1	-18.0	-0.71	1.270	42.7	0.851	2.754	107.1	182.3	---	5.098	0.93	0.176	77.2	81.2	3.6	0.278
4-1090	4-197C	0.921	226.6	-18.2	-0.74	1.271	43.3	0.848	2.762	105.9	182.9	---	5.104	0.92	0.180	74.6	81.0	3.6	0.277
4-1090	4-1990	0.911	227.2	-18.4	-0.77	1.271	43.9	0.845	2.771	104.8	183.4	---	5.112	0.92	0.185	72.1	80.8	3.6	0.277
4-1090	4-201C	0.901	227.7	-18.6	-0.80	1.272	44.5	0.841	2.781	103.6	184.0	---	5.121	0.91	0.190	70.0	80.8	3.6	0.277
4-1090	4-203C	0.891	228.3	-18.8	-0.82	1.272	45.1	0.838	2.792	102.4	184.5	---	5.132	0.91	0.195	68.0	80.8	3.6	0.276
4-1090	4-2050	0.881	228.8	-19.0	-0.85	1.273	45.7	0.835	2.804	101.2	185.1	---	5.145	0.90	0.200	66.2	80.8	3.6	0.277
4-1090	4-207C	0.871	229.4	-19.2	-0.88	1.274	46.3	0.832	2.816	99.9	185.6	---	5.159	0.90	0.205	64.6	81.0	3.6	0.277
4-1090	4-2090	0.861	230.0	-19.4	-0.91	1.274	46.9	0.829	2.829	98.7	186.2	---	5.175	0.90	0.210	63.1	81.2	3.6	0.277
4-1090	4-2110	0.851	230.6	-19.6	-0.94	1.275	47.5	0.826	2.843	97.5	186.7	---	5.191	0.90	0.215	61.7	81.4	3.6	0.278
4-1090	4-2130	0.841	231.2	-19.8	-0.96	1.276	48.1	0.823	2.857	96.2	187.2	---	5.208	0.90	0.220	60.5	81.8	3.7	0.278
4-1090	4-215C	0.831	231.9	-20.0	-0.99	1.276	48.7	0.820	2.871	94.9	187.8	---	5.226	0.90	0.225	59.4	82.2	3.7	0.279
4-1090	4-217C	0.821	232.5	-20.2	-1.02	1.277	49.3	0.817	2.886	93.7	188.3	---	5.245	0.90	0.229	58.4	82.6	3.7	0.280
4-1090	4-2190	0.811	233.1	-20.4	-1.05	1.278	49.9	0.814	2.902	92.4	188.8	---	5.265	0.90	0.234	57.5	83.1	3.7	0.281
4-1090	4-2210	0.801	233.8	-20.7	-1.08	1.278	50.5	0.812	2.917	91.1	189.3	---	5.285	0.91	0.239	56.6	83.6	3.7	0.282
4-1090	4-2230	0.791	234.5	-20.9	-1.11	1.279	51.1	0.809	2.933	89.8	189.8	---	5.306	0.91	0.243	55.9	84.2	3.7	0.283
4-1090	4-2250	0.781	235.2	-21.1	-1.14	1.280	51.7	0.806	2.950	88.5	190.3	---	5.327	0.92	0.248	55.2	84.9	3.7	0.284
4-1090	4-227C	0.771	23519	-21.3	-1.16	1.281	52.3	0.803	2.966	87.2	190.8	---	5.349	0.92	0.252	54.5	85.6	3.7	0.285
4-1090	4-229C	0.761	23816	-21.5	-1.19	1.281	52.9	0.801	2.983	85.9	191.3	---	5.371	0.93	0.257	53.9	86.3	3.7	0.286
4-1090	4-2310	0.751	237.3	-21.8	-1.23	1.282	53.6	0.798	3.000	84.5	191.7	---	5.394	0.94	0.261	53.4	87.1	3.7	0.287
4-1090	4-2330	0.741	238.0	-22.0	-1.26	1.283	54.2	0.796	3.017	83.2	192.2	---	5.417	0.95	0.265	52.8	87.9	3.8	0.289
4-1090	4-235C	0.731	238.8	-22.2	-1.29	1.284	54.8	0.793	3.034	81.9	192.7	---	5.441	0.96	0.269	52.4	88.7	3.8	0.290
4-1090	4-2370	0.721	239.5	-22.5	-1.32	1.284	55.4	0.791	3.052	80.5	193.2	---	5.465	0.97	0.273	52.0	89.6	3.8	0.291
4-1090	4-2390	0.711	240.3	-22.7	-1.36	1.285	56.0	0.788	3.069	79.1	193.6	---	5.489	0.99	0.277	51.6	90.5	3.8	0.292
4-1090	4-2410	0.701	241.1	-23.0	-1.39	1.286	56.6	0.786	3.087	77.8	194.1	---	5.513	1.00	0.281	51.2	91.5	3.8	0.293
4-1090	4-243C	0.691	241.9	-23.2	-1.43	1.287	57.2	0.784	3.105	76.4	194.5	---	5.538	1.02	0.284	50.8	92.4	3.8	0.295
4-1090	4-245C	0.681	242.8	-23.5	-1.46	1.287	57.9	0.781	3.123	75.0	195.0	---	5.563	1.04	0.288	50.5	93.4	3.8	0.296
4-1090	4-247C	0.671	243.6	-23.7	-1.50	1.288	58.5	0.779	3.141	73.6	195.4	---	5.588	1.06	0.291	50.2	94.5	3.9	0.297
4-1090	4-2490	0.661	244.5	-24.0	-1.54	1.289	59.1	0.777	3.159	72.2	195.8	---	5.613	1.08	0.295	50.0	95.5	3.9	0.298
4-1090	4-2510	0.651	245.4	-24.3	-1.59	1.289	59.7	0.775	3.177	70.8	196.3	---	5.639	1.10	0.298	49.7	96.6	3.9	0.299
4-1090	4-2530	0.641	246.3	-24.5	-1.63	1.290	60.4	0.773	3.195	69.4	196.7	---	5.665	1.13	0.301	49.5	97.7	3.9	0.300
4-1090	4-2550	0.631	247.2	-24.8	-1.68	1.291	61.0	0.771	3.213	68.0	197.1	---	5.691	1.16	0.304	49.2	98.9	3.9	0.302
4-1090	4-257C	0.621	24812	-25.1	-1.73	1.291	61.6	0.769	3.232	66.6	197.5	---	5.717	1.19	0.307	49.0	100.0	3.9	0.303
4-1090	4-2590	0.611	249.2	-25.4	-1.78	1.292	62.2	0.767	3.250	65.2	197.9	---	5.743	1.22	0.310	48.8	101.2	3.9	0.304
4-1090	4-2610	0.601	250.2	-25.7	-1.83	1.293	62.9	0.765	3.268	63.7	198.3	---	5.770	1.26	0.313	48.7	102.4	4.0	0.305
4-1090	4-263C	0.591	251.2	-26.1	-1.89	1.293	63.5	0.764	3.287	62.3	198.7	---	5.796	1.30	0.316	48.5	103.6	4.0	0.306
4-1090	4-265C	0.582	252.3	-26.4	-1.95	1.294	64.1	0.762	3.305	60.9	199.1	---	5.823	1.35	0.318	48.3	104.8	4.0	0.307
4-1090	4-267C	0.572	253.4	-26.7	-2.02	1.295	64.7	0.760	3.324	59.4	199.5	---	5.850	1.40	0.321	48.2	106.1	4.0	0.309
4-1090	4-269C	0.562	254.5	-27.1	-2.09	1.295	65.4	0.759	3.342	58.0	199.9	---	5.877	1.46	0.324	48.0	107.4	4.1	0.310
4-1100	4-1440	1.391	221.1	-15.7	0.66	1.368	19.1	0.989	9.879	143.5	166.1	---	---	1.89	0.528	170.6	99.8	3.3	0.643
4-1100	4-1460	1.363	221.2	-15.8	0.53	1.350	20.0	0.983	6.663	142.8	167.0	---	---	1.77	0.481	169.3	99.1	3.3	0.601
4-1100	4-1480	1.339	221.4	-15.8	0.42	1.335	20.9	0.978	5.261	141.9	167.8	---	---	1.67	0.438	167.8	98.3	3.3	0.564
4-1100	4-150C	1.316	221.6	-15.9	0.31	1.323	21.7	0.972	4.484	141.1	168.6	---	---	1.58	0.399	166.2	97.5	3.3	0.532
4-1100	4-1520	1.296	221.9	-16.1	0.22	1.313	22.6	0.967	3.997	140.2	169.3	---	---	1.49	0.364	164.4	96.6	3.3	0.502
4-1100	4-1540	1.277	222.2	-16.2	0.14	1.304	23.4	0.962	3.666	139.3	170.1	---	---	1.42	0.332	162.4	95.7	3.4	0.477
4-1100	4-156C	1.259	222.5	-16.3	0.06	1.297	24.1	0.957	3.431	138.3	170.8	---	---	1.36	0.304	160.2	94.8	3.4	0.453
4-1100	4-1580	1.243	222.9	-16.4	-0.01	1.291	24.9	0.952	3.257	137.4	171.5	---	---	1.30	0.278	157.6	93.9	3.4	0.433
4-1100	4-1600	1.227	223.2	-16.6	-0.07	1.286	25.6	0.948	3.125	136.4	172.1	---	---	1.24	0.254	154.8	92.9	3.4	0.415

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1300	4-1720	0.825	250.2	-21.4	0.53	1.418	125.3	0.98544	4.967	288.9	499.4	0.654	---	0.82	0.605	158.6	134.9	2.5	0.624
4-1300	4-1740	0.795	249.8	-21.3	0.58	1.400	124.3	0.95314	4.104	289.5	501.7	0.665	---	0.78	0.564	156.9	135.0	2.5	0.583
4-1300	4-1760	0.770	249.5	-21.2	0.62	1.386	123.4	0.924	8.919	290.1	504.0	0.674	---	0.74	0.526	155.1	135.1	2.5	0.545
4-1300	4-1780	0.747	249.2	-21.0	0.66	1.373	122.6	0.900	6.793	290.6	506.2	0.682	---	0.71	0.492	153.2	135.0	2.5	0.511
4-1300	4-1800	0.728	249.0	-20.9	0.69	1.362	121.9	0.878	5.644	291.1	508.4	0.690	---	0.68	0.462	151.2	134.8	2.5	0.480
4-1300	4-1820	0.711	248.7	-20.8	0.73	1.352	121.3	0.859	4.929	291.5	510.5	0.696	---	0.66	0.433	149.2	134.6	2.5	0.451
4-1300	4-1840	0.696	248.6	-20.7	0.76	1.344	120.8	0.842	4.446	291.8	512.5	0.701	---	0.64	0.408	147.0	134.2	2.5	0.425
4-1300	4-1860	0.684	248.4	-20.6	0.78	1.337	120.3	0.828	4.099	292.1	514.5	0.706	---	0.61	0.384	144.6	133.8	2.6	0.402
4-1300	4-1880	0.673	248.3	-20.5	0.81	1.331	120.0	0.815	3.841	292.3	516.4	0.710	---	0.60	0.363	142.2	133.2	2.6	0.380
4-1300	4-1900	0.664	248.2	-20.5	0.84	1.326	119.6	0.804	3.643	292.4	518.3	0.713	---	0.58	0.344	139.6	132.5	2.6	0.360
4-1300	4-1920	0.657	248.2	-20.4	0.86	1.321	119.4	0.795	3.488	292.5	520.1	0.715	---	0.56	0.327	137.0	131.7	2.7	0.342
4-1300	4-1940	0.651	248.2	-20.4	0.88	1.317	119.2	0.787	3.364	292.5	521.9	0.717	---	0.55	0.311	134.2	130.8	2.7	0.326
4-1300	4-1960	0.646	248.3	-20.3	0.90	1.314	119.1	0.780	3.263	292.4	523.5	0.718	---	0.53	0.297	131.3	129.7	2.7	0.312
4-1300	4-1980	0.643	248.4	-20.3	0.92	1.311	119.0	0.774	3.182	292.3	525.2	0.718	---	0.52	0.284	128.3	128.6	2.8	0.299
4-1300	4-2000	0.640	248.5	-20.3	0.94	1.308	118.9	0.770	3.114	292.1	526.7	0.717	---	0.51	0.272	125.2	127.3	2.8	0.287
4-1300	4-2020	0.639	248.7	-20.3	0.96	1.306	119.0	0.766	3.059	291.8	528.2	0.716	---	0.50	0.262	122.0	126.0	2.9	0.277
4-1300	4-2040	0.639	248.9	-20.3	0.98	1.304	119.0	0.763	3.012	291.5	529.7	0.715	---	0.49	0.254	118.7	124.6	2.9	0.268
4-1300	4-2060	0.639	249.2	-20.3	1.00	1.302	119.1	0.760	2.974	291.1	531.1	0.713	---	0.48	0.246	115.4	123.1	3.0	0.260
4-1300	4-2080	0.641	249.5	-20.3	1.01	1.301	119.2	0.759	2.943	290.7	532.4	0.710	---	0.47	0.239	112.1	121.6	3.0	0.254
4-1300	4-2100	0.643	249.8	-20.3	1.03	1.300	119.4	0.758	2.916	290.2	533.7	0.707	---	0.46	0.234	108.7	120.1	3.1	0.249
4-1300	4-2120	0.646	250.2	-20.3	1.05	1.299	119.6	0.757	2.895	289.7	534.9	0.703	---	0.46	0.229	105.4	118.6	3.1	0.244
4-1300	4-2140	0.650	250.6	-20.4	1.06	1.298	119.9	0.757	2.877	289.0	536.1	0.699	---	0.45	0.226	102.0	117.1	3.1	0.241
4-1300	4-2160	0.654	251.0	-20.4	1.08	1.297	120.1	0.758	2.863	288.4	537.2	0.694	---	0.45	0.223	98.7	115.7	3.2	0.239
4-1300	4-2180	0.659	251.4	-20.5	1.09	1.297	120.4	0.759	2.853	287.7	538.2	0.689	---	0.44	0.221	95.5	114.3	3.2	0.238
4-1300	4-2200	0.665	251.9	-20.5	1.11	1.296	120.8	0.760	2.844	286.9	539.3	0.683	---	0.44	0.219	92.3	113.0	3.2	0.237
4-1300	4-2220	0.671	252.4	-20.6	1.12	1.296	121.2	0.762	2.838	286.1	540.2	0.677	5.000	0.43	0.218	89.2	111.8	3.2	0.238
4-1300	4-2240	0.678	252.9	-20.7	1.13	1.296	121.6	0.764	2.834	285.2	541.2	0.670	4.999	0.43	0.218	86.2	110.7	3.3	0.239
4-1300	4-2260	0.686	253.5	-20.7	1.15	1.296	122.0	0.766	2.832	284.3	542.1	0.663	5.002	0.42	0.218	83.3	109.8	3.3	0.240
4-1300	4-2280	0.694	254.1	-20.8	1.16	1.296	122.4	0.769	2.832	283.3	542.9	0.655	5.008	0.42	0.219	80.5	108.9	3.3	0.242
4-1300	4-2300	0.702	254.6	-20.9	1.17	1.296	122.9	0.772	2.832	282.3	543.7	0.647	5.018	0.42	0.220	77.8	108.2	3.3	0.245
4-1300	4-2320	0.711	255.3	-20.9	1.19	1.296	123.4	0.775	2.835	281.2	544.4	0.638	5.031	0.42	0.221	75.2	107.7	3.3	0.248
4-1300	4-2340	0.721	255.9	-21.0	1.20	1.296	124.0	0.778	2.838	280.1	545.2	0.629	5.047	0.42	0.223	72.7	107.2	3.3	0.252
4-1300	4-2360	0.731	256.5	-21.1	1.21	1.296	124.5	0.782	2.842	279.0	545.8	0.620	5.065	0.42	0.224	70.3	106.9	3.3	0.256
4-1300	4-2380	0.742	257.2	-21.2	1.23	1.296	125.1	0.786	2.848	277.8	546.5	0.610	5.086	0.42	0.226	68.0	106.7	3.3	0.260
4-1300	4-2400	0.753	257.9	-21.2	1.24	1.297	125.7	0.790	2.854	276.6	547.1	0.600	5.108	0.41	0.229	65.8	106.7	3.3	0.264
4-1300	4-2420	0.764	258.6	-21.3	1.25	1.297	126.4	0.794	2.861	275.3	547.6	0.589	5.133	0.42	0.231	63.7	106.8	3.3	0.269
4-1300	4-2440	0.776	259.3	-21.4	1.27	1.297	127.0	0.799	2.869	274.0	548.1	0.578	5.160	0.42	0.233	61.7	106.9	3.2	0.274
4-1300	4-2460	0.788	260.1	-21.5	1.28	1.298	127.7	0.803	2.877	272.7	548.6	0.566	5.188	0.42	0.236	59.7	107.2	3.2	0.280
4-1300	4-2480	0.801	260.8	-21.5	1.29	1.298	128.4	0.808	2.886	271.3	549.1	0.554	5.218	0.42	0.239	57.8	107.6	3.2	0.285
4-1300	4-2500	0.814	261.6	-21.6	1.31	1.299	129.1	0.813	2.896	269.9	549.5	0.542	5.250	0.42	0.241	56.0	108.1	3.2	0.291
4-1300	4-2520	0.828	262.3	-21.7	1.32	1.299	129.9	0.818	2.906	268.4	549.9	0.529	5.283	0.42	0.244	54.2	108.7	3.2	0.296
4-1300	4-2540	0.842	263.1	-21.7	1.34	1.300	130.7	0.823	2.917	266.9	550.2	0.516	5.317	0.43	0.247	52.5	109.3	3.2	0.302
4-1300	4-2560	0.857	263.9	-21.8	1.35	1.300	131.5	0.828	2.928	265.4	550.5	0.503	5.353	0.43	0.250	50.9	110.1	3.2	0.308
4-1300	4-2580	0.871	264.7	-21.8	1.36	1.301	132.3	0.834	2.939	263.9	550.8	0.489	5.390	0.43	0.252	49.3	110.9	3.1	0.314
4-1300	4-2600	0.887	265.5	-21.9	1.38	1.301	133.1	0.839	2.951	262.3	551.0	0.475	6.428	0.44	0.255	47.7	111.8	3.1	0.320
4-1300	4-2620	0.902	266.3	-22.0	1.39	1.302	134.0	0.845	2.964	260.7	551.2	0.460	5.467	0.44	0.258	46.2	112.7	3.1	0.327
4-1300	4-2640	0.918	267.2	-22.0	1.41	1.302	134.9	0.850	2.976	259.0	551.4	0.446	5.507	0.45	0.261	44.7	113.8	3.1	0.333
4-1300	4-2660	0.935	268.0	-22.0	1.42	1.303	135.8	0.856	2.989	257.3	551.6	0.431	5.548	0.46	0.263	43.3	114.8	3.0	0.340
4-1300	4-2680	0.951	268.8	-22.1	1.44	1.303	136.7	0.862	3.003	255.6	551.7	0.415	5.590	0.46	0.266	41.8	116.0	3.0	0.346
4-1300	4-2700	0.968	269.7	-22.1	1.46	1.304	137.7	0.867	3.016	253.9	551.8	0.400	5.632	0.47	0.269	40.5	117.2	3.0	0.353
4-1300	4-2720	0.986	270.6	-22.2	1.47	1.305	138.6	0.873	3.030	252.1	551.8	0.384	5.676	0.48	0.272	39.1	118.4	2.9	0.359
4-1300	4-2740	1.003	271.4	-22.2	1.49	1.305	139.6	0.879	3.044	250.3	551.8	0.368	5.720	0.49	0.274	37.8	119.7	2.9	0.366
4-1300	4-2760	1.021	272.3	-22.2	1.51	1.306	140.6	0.885	3.058	248.4	551.8	0.352	5.764	0.50	0.277	36.4	121.0	2.8	0.372
4-1300	4-2780	1.040	273.2	-22.2	1.53	1.306	141.7	0.891	3.073	246.6	551.8	0.336	5.810	0.51	0.279	35.1	122.4	2.8	0.379
4-1300	4-2800	1.058	274.1	-22.2	1.55	1.307	142.7	0.896	3.088	244.7	551.7	0.320	5.855	0.52	0.282	33.9	123.8	2.8	0.386
4-1300	4-2820	1.077	275.0	-22.2	1.57	1.308	143.8	0.902	3.103	242.8	551.7	0.304	5.902	0.53	0.284	32.6	125.3	2.7	0.392
4-1300	4-2840	1.096	275.9	-22.2	1.59	1.308	144.9	0.908	3.118	240.8	551.5	0.288	5.949	0.55	0.287	31.4	126.8	2.7	0.399
4-1300	4-2860	1.116	276.8	-22.2	1.62	1.309	146.0	0.913	3.134	238.8	551.4	0.271	5.996	0.56	0.289	30.1	128.3	2.6	0.406
4-1300	4-2880	1.136	277.7	-22.2	1.64	1.309	147.1	0.919	3.149	236.9	551.2	0.255	6.043	0.58	0.292	28.9	129.9	2.6	0.413
4-1300	4-2900	1.155	278.6	-22.2	1.67	1.310	148.3	0.924	3.165	234.8	551.0	0.239	6.091	0.60	0.294	27.7	131.5	2.5	0.419
4-1310	4-1730	0.768	256.3	-21.6	0.80	1.420	121.7	0.98861	1.448	296.1	497.3	0.710	---	0.53	0.610	157.8	136.6	2.3	0.623
4-1310	4-1750	0.739	255.9	-21.4	0.84	1.403	120.7	0.95315	1.378	296.8	499.7	0.720	---	0.49	0.569	156.1	136.8	2.3	0.581
4-1310	4-1770	0.713	255.5	-21.3	0.88	1.388	119.9	0.922	9.403	297.5	502.0	0.729	---	0.46	0.532	154.3	136.8	2.3	0.544
4-1310	4-1790	0.691	255.1	-21.2	0.91	1.375	119.1	0.896	7.066	298.1	504.3	0.737	---	0.43	0.498	152.5	136.8	2.3	0.509
4-1310	4-1810	0.671	254.8	-21.0	0.93	1.365	118.4	0.872	5.827	298.6	506.6	0.745	---	0.40	0.468	150.5	136.7	2.3	0.478
4-1310	4-1830	0.655	254.5	-20.9	0.96	1.355	117.8	0.852	5.066	299.1	508.7	0.751	---	0.38	0.440	148.4	136.5	2.3	0.450
4-1310	4-1850	0.640	254.2	-20.8	0.98	1.347	117.2	0.834	4.555	299.5	510.9	0.756	---	0.36	0.415	146.2	136.2	2.3	0.424
4-1310	4-1870	0.627	254.0	-20.7	1.00	1.340	116.8	0.818	4.190	299.8	512.9	0.761	---	0.35	0.392	143.9	135.8	2.3	0.400
4-1310	4-1890	0.616	253.9	-20.6	1.02	1.334	116.4	0.805	3.919	300.1	514.9	0.765	---	0.33	0.371	141.5	135.3	2.4	0.378
4-1310	4-1910	0.607	253.8	-20.6	1.04	1.328	116.1	0.793	3.712	300.3	516.9	0.768	---	0.32	0.352	139.0	134.6	2.4	0.358
4-1310	4-1930	0.600	253.7	-20.5	1.05	1.324	115.8	0.783	3.550	300.4	518.7	0.770	---	0.31	0.334	136.4	133.9	2.4	0.340
4-1310	4-1950	0.593	253.7	-20.4	1.07	1.320	115.6	0.774	3.420	300.5	520.6	0.772	---	0.29	0.319	133.7	133.0	2.5	0.324
4-1310	4-1970	0.588	253.7	-20.4	1.08	1.316	115.4	0.767	3.315	300.5	522.3	0.773	---	0.28	0.305	130.9	132.0	2.5	0.309
4-1310	4-1990	0.585	253.8	-20.4	1.09	1.313	115.3	0.760	3.230	300.4	524.0	0.774	---	0.28	0.292	128.0	131.0	2.5	0.296
4-1310	4-2010	0.582	253.9	-20.4	1.10	1.310	115.3	0.755	3.160	300.3	525.6	0.774	---	0.27	0.281	125.0	129.8	2.6	0.284
4-1310	4-2030	0.580	254.0	-20.3	1.12	1.308	115.3	0.751	3.102	300.1	527.2	0.773	---	0.26	0.271	121.9	128.5	2.6	0.273
4-1310	4-2050	0.579	254.2	-20.3	1.13	1.306	115.3	0.747	3.054	299.8	528.7	0.772	---	0.25	0.263	118.8	127.2	2.7	0.264
4-1310	4-2070	0.579	254.5	-20.4	1.14	1.304	115.4	0.744	3.014	299.5	530.1	0.770	---	0.25	0.255	115.6	125.7	2.7	0.256
4-1310	4-2090	0.580	254.8	-20.4	1.15	1.303	115.5	0.742	2.980	299.1	531.5	0.768	---	0.24	0.249	112.5	124.3	2.8	0.249
4-1310	4-2110	0.582	255.1	-20.4	1.15	1.302	115.6	0.741	2.953	298.7	532.8	0.766	---	0.23	0.243	109.3	122.8	2.8	0.243

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1310	4-2130	0.584	255.5	-20.4	1.16	1.301	115.8	0.740	2.930	298.2	534.1	0.763	---	0.23	0.239	106.1	121.2	2.8	0.239
4-1310	4-2150	0.588	255.9	-20.5	1.17	1.300	116.0	0.739	2.912	297.6	535.3	0.759	---	0.22	0.235	102.9	119.7	2.9	0.235
4-1310	4-2170	0.591	256.3	-20.5	1.18	1.299	116.3	0.739	2.897	297.0	536.5	0.755	---	0.22	0.232	99.8	118.3	2.9	0.232
4-1310	4-2190	0.596	256.7	-20.6	1.19	1.299	116.5	0.740	2.885	296.3	537.6	0.751	---	0.22	0.230	96.8	116.9	3.0	0.230
4-1310	4-2210	0.601	257.2	-20.6	1.20	1.298	116.8	0.741	2.876	295.6	538.7	0.746	---	0.21	0.228	93.8	115.5	3.0	0.229
4-1310	4-2230	0.606	257.8	-20.7	1.20	1.298	117.2	0.742	2.869	294.8	539.7	0.740	---	0.21	0.227	90.8	114.3	3.0	0.229
4-1310	4-2250	0.612	258.3	-20.7	1.21	1.298	117.5	0.744	2.864	294.0	540.7	0.735	4.994	0.21	0.227	88.0	113.1	3.0	0.230
4-1310	4-2270	0.619	258.9	-20.8	1.22	1.298	117.9	0.745	2.862	293.1	541.6	0.728	4.995	0.20	0.227	85.3	112.1	3.0	0.231
4-1310	4-2290	0.626	259.5	-20.9	1.22	1.298	118.4	0.748	2.861	292.2	542.5	0.722	4.999	0.20	0.227	82.6	111.2	3.1	0.232
4-1310	4-2310	0.634	260.1	-20.9	1.23	1.298	118.8	0.750	2.861	291.3	543.4	0.715	5.007	0.20	0.228	80.1	110.4	3.1	0.235
4-1310	4-2330	0.642	260.7	-21.0	1.24	1.298	119.3	0.753	2.863	290.2	544.2	0.707	5.018	0.20	0.229	77.6	109.8	3.1	0.237
4-1310	4-2350	0.651	261.4	-21.1	1.24	1.298	119.8	0.756	2.866	289.2	544.9	0.699	5.032	0.20	0.230	75.2	109.2	3.1	0.240
4-1310	4-2370	0.660	262.1	-21.1	1.25	1.298	120.3	0.759	2.870	288.1	545.7	0.691	5.048	0.19	0.232	73.0	108.8	3.1	0.244
4-1310	4-2390	0.670	262.8	-21.2	1.26	1.298	120.8	0.763	2.874	287.0	546.4	0.682	5.067	0.19	0.234	70.8	108.6	3.1	0.248
4-1310	4-2410	0.680	263.5	-21.2	1.26	1.299	121.4	0.766	2.880	285.8	547.0	0.673	5.087	0.19	0.236	68.7	108.4	3.1	0.252
4-1310	4-2430	0.690	264.2	-21.3	1.27	1.299	122.0	0.770	2.887	284.6	547.6	0.664	5.110	0.19	0.238	66.6	108.4	3.1	0.256
4-1310	4-2450	0.701	265.0	-21.4	1.27	1.299	122.6	0.774	2.894	283.4	548.2	0.654	5.135	0.19	0.240	64.7	108.5	3.1	0.261
4-1310	4-2470	0.713	265.7	-21.4	1.28	1.300	123.2	0.778	2.902	282.1	548.7	0.643	5.162	0.19	0.242	62.8	108.7	3.1	0.265
4-1310	4-2490	0.724	266.5	-21.5	1.29	1.300	123.9	0.783	2.911	280.8	549.3	0.632	5.190	0.19	0.245	61.0	109.0	3.1	0.270
4-1310	4-2510	0.737	267.3	-21.5	1.29	1.300	124.5	0.787	2.920	279.4	549.7	0.621	5.219	0.19	0.247	59.3	109.4	3.0	0.276
4-1310	4-2530	0.749	268.1	-21.6	1.30	1.301	125.2	0.792	2.930	278.0	550.2	0.609	5.251	0.19	0.250	57.6	109.9	3.0	0.281
4-1310	4-2550	0.762	268.9	-21.6	1.30	1.301	126.0	0.797	2.940	276.6	550.6	0.597	5.283	0.19	0.252	56.0	110.5	3.0	0.286
4-1310	4-2570	0.776	269.7	-21.7	1.31	1.302	126.7	0.802	2.951	275.1	551.0	0.585	5.317	0.19	0.255	54.4	111.1	3.0	0.292
4-1310	4-2590	0.789	270.5	-21.7	1.32	1.302	127.4	0.807	2.962	273.6	551.3	0.572	5.352	0.19	0.258	52.9	111.9	3.0	0.298
4-1310	4-2610	0.803	271.3	-21.8	1.32	1.303	128.2	0.812	2.974	272.1	551.6	0.559	5.388	0.19	0.260	51.4	112.7	3.0	0.303
4-1310	4-2630	0.818	272.2	-21.8	1.33	1.303	129.0	0.817	2.986	270.6	551.9	0.546	5.426	0.19	0.263	50.0	113.6	2.9	0.309
4-1310	4-2650	0.833	273.0	-21.8	1.34	1.304	129.9	0.823	2.998	269.0	552.1	0.532	5.464	0.19	0.265	48.5	114.5	2.9	0.315
4-1310	4-2670	0.848	273.9	-21.8	1.34	1.304	130.7	0.828	3.010	267.4	552.4	0.518	5.503	0.20	0.268	47.2	115.5	2.9	0.321
4-1310	4-2690	0.864	274.7	-21.8	1.35	1.305	131.6	0.834	3.023	265.7	552.5	0.503	5.543	0.20	0.270	45.8	116.6	2.9	0.327
4-1310	4-2710	0.880	275.6	-21.9	1.36	1.305	132.4	0.839	3.036	264.1	552.7	0.488	5.585	0.20	0.273	44.5	117.7	2.8	0.333
4-1310	4-2730	0.896	276.5	-21.9	1.36	1.306	133.3	0.845	3.050	262.3	552.8	0.473	5.627	0.20	0.275	43.2	118.9	2.8	0.339
4-1310	4-2750	0.913	277.3	-21.9	1.37	1.307	134.3	0.851	3.064	260.6	552.9	0.458	5.669	0.21	0.278	41.9	120.1	2.8	0.346
4-1310	4-2770	0.930	278.2	-21.9	1.38	1.307	135.2	0.856	3.077	258.9	553.0	0.442	5.713	0.21	0.280	40.7	121.4	2.7	0.352
4-1310	4-2790	0.947	279.1	-21.9	1.38	1.308	136.2	0.862	3.092	257.1	553.0	0.426	5.757	0.21	0.283	39.5	122.7	2.7	0.358
4-1310	4-2810	0.964	280.0	-21.8	1.39	1.308	137.1	0.868	3.106	255.3	553.1	0.410	5.802	0.21	0.285	38.2	124.1	2.6	0.364
4-1310	4-2830	0.982	280.9	-21.8	1.40	1.309	138.1	0.874	3.121	253.4	553.0	0.394	5.847	0.22	0.287	37.0	125.5	2.6	0.371
4-1310	4-2850	1.000	281.8	-21.8	1.41	1.309	139.1	0.880	3.135	251.6	553.0	0.378	5.893	0.22	0.290	35.9	126.9	2.6	0.377
4-1310	4-2870	1.019	282.7	-21.8	1.42	1.310	140.2	0.885	3.150	249.7	552.9	0.361	5.940	0.23	0.292	34.7	128.3	2.5	0.383
4-1310	4-2890	1.038	283.6	-21.7	1.42	1.311	141.2	0.891	3.166	247.8	552.8	0.345	5.987	0.23	0.294	33.5	129.8	2.5	0.390
4-1310	4-2910	1.057	284.5	-21.7	1.43	1.311	142.3	0.897	3.181	245.8	552.7	0.328	6.034	0.24	0.296	32.4	131.4	2.4	0.396
4-1320	4-1740	0.711	261.9	-20.6	1.50	1.422	118.1	0.99079.718		303.5	495.3	0.764	---	-0.20	0.613	157.0	138.2	2.0	0.620
4-1320	4-1760	0.682	261.3	-20.5	1.48	1.405	117.1	0.95316.347		304.3	497.8	0.774	---	-0.18	0.573	155.3	138.4	2.0	0.578
4-1320	4-1780	0.657	260.8	-20.4	1.46	1.390	116.2	0.920	9.764	305.0	500.3	0.783	---	-0.16	0.536	153.5	138.5	2.0	0.541
4-1320	4-1800	0.634	260.4	-20.3	1.44	1.377	115.5	0.891	7.271	305.7	502.6	0.790	---	-0.14	0.503	151.7	138.5	2.0	0.507
4-1320	4-1820	0.615	260.0	-20.2	1.43	1.366	114.8	0.866	5.968	306.3	505.0	0.797	---	-0.13	0.472	149.7	138.4	2.0	0.476
4-1320	4-1840	0.598	259.6	-20.2	1.42	1.357	114.2	0.845	5.172	306.9	507.2	0.803	---	-0.12	0.445	147.6	138.2	2.0	0.447
4-1320	4-1860	0.584	259.3	-20.1	1.41	1.349	113.6	0.826	4.641	307.3	509.4	0.808	---	-0.11	0.420	145.5	138.0	2.0	0.421
4-1320	4-1880	0.571	259.0	-20.0	1.40	1.341	113.2	0.809	4.263	307.7	511.5	0.813	---	-0.10	0.397	143.2	137.6	2.0	0.397
4-1320	4-1900	0.560	258.7	-20.0	1.39	1.335	112.8	0.795	3.983	308.1	513.6	0.816	---	-0.10	0.376	140.8	137.1	2.0	0.375
4-1320	4-1920	0.551	258.6	-19.9	1.39	1.330	112.4	0.783	3.769	308.3	515.6	0.819	---	-0.09	0.358	138.4	136.5	2.1	0.356
4-1320	4-1940	0.543	258.4	-19.9	1.38	1.325	112.2	0.772	3.601	308.5	517.5	0.822	---	-0.09	0.341	135.8	135.8	2.1	0.337
4-1320	4-1960	0.537	258.4	-19.9	1.37	1.321	112.0	0.762	3.468	308.7	519.4	0.824	---	-0.08	0.326	133.1	135.0	2.1	0.321
4-1320	4-1980	0.532	258.4	-19.8	1.37	1.318	111.8	0.754	3.360	308.7	521.2	0.825	---	-0.08	0.312	130.4	134.1	2.1	0.306
4-1320	4-2000	0.528	258.4	-19.8	1.37	1.315	111.7	0.748	3.272	308.7	523.0	0.826	---	-0.07	0.299	127.5	133.1	2.2	0.292
4-1320	4-2020	0.525	258.5	-19.8	1.36	1.312	111.6	0.742	3.199	308.6	524.6	0.826	---	-0.07	0.289	124.6	131.9	2.2	0.280
4-1320	4-2040	0.523	258.6	-19.9	1.36	1.310	111.6	0.737	3.140	308.5	526.2	0.826	---	-0.07	0.279	121.7	130.7	2.3	0.270
4-1320	4-2060	0.522	258.8	-19.9	1.36	1.308	111.6	0.733	3.090	308.2	527.8	0.825	---	-0.07	0.270	118.7	129.4	2.3	0.260
4-1320	4-2080	0.521	259.0	-19.9	1.35	1.306	111.7	0.730	3.048	308.0	529.3	0.824	---	-0.06	0.263	115.7	128.0	2.4	0.252
4-1320	4-2100	0.522	259.3	-19.9	1.35	1.305	111.8	0.727	3.014	307.6	530.7	0.822	---	-0.06	0.257	112.6	126.6	2.4	0.245
4-1320	4-2120	0.523	259.7	-20.0	1.35	1.304	111.9	0.725	2.986	307.2	532.1	0.820	---	-0.06	0.251	109.6	125.1	2.5	0.239
4-1320	4-2140	0.525	260.0	-20.0	1.34	1.302	112.0	0.724	2.962	306.8	533.4	0.817	---	-0.06	0.247	106.5	123.6	2.5	0.234
4-1320	4-2160	0.528	260.5	-20.1	1.34	1.302	112.2	0.723	2.943	306.2	534.7	0.815	---	-0.06	0.243	103.5	122.1	2.5	0.229
4-1320	4-2180	0.531	260.9	-20.1	1.34	1.301	112.5	0.723	2.927	305.7	535.9	0.811	---	-0.05	0.240	100.6	120.6	2.6	0.226
4-1320	4-2200	0.535	261.4	-20.2	1.34	1.300	112.7	0.723	2.915	305.0	537.0	0.808	---	-0.05	0.238	97.7	119.2	2.6	0.224
4-1320	4-2220	0.539	261.9	-20.3	1.34	1.300	113.0	0.723	2.905	304.3	538.2	0.803	---	-0.05	0.236	94.8	117.8	2.7	0.223
4-1320	4-2240	0.544	262.5	-20.3	1.33	1.300	113.3	0.724	2.898	303.6	539.2	0.799	---	-0.05	0.235	92.0	116.5	2.7	0.222
4-1320	4-2260	0.549	263.1	-20.4	1.33	1.299	113.6	0.725	2.893	302.8	540.2	0.794	4.991	-0.05	0.235	89.4	115.4	2.7	0.222
4-1320	4-2280	0.555	263.7	-20.5	1.33	1.299	114.0	0.727	2.889	302.0	541.2	0.789	4.990	-0.05	0.234	86.8	114.3	2.7	0.223
4-1320	4-2300	0.562	264.3	-20.5	1.33	1.299	114.4	0.729	2.888	301.1	542.2	0.783	4.993	-0.05	0.235	84.2	113.3	2.8	0.224
4-1320	4-2320	0.569	265.0	-20.6	1.33	1.299	114.8	0.731	2.888	300.2	543.1	0.777	4.999	-0.05	0.235	81.8	112.4	2.8	0.226
4-1320	4-2340	0.576	265.7	-20.7	1.32	1.299	115.2	0.733	2.889	299.3	543.9	0.771	5.008	-0.05	0.236	79.5	111.7	2.8	0.228
4-1320	4-2360	0.584	266.4	-20.7	1.32	1.299	115.7	0.736	2.892	298.3	544.7	0.764	5.020	-0.05	0.237	77.2	111.1	2.8	0.231
4-1320	4-2380	0.592	267.1	-20.8	1.32	1.300	116.2	0.739	2.895	297.2	545.5	0.757	5.034	-0.04	0.239	75.1	110.7	2.8	0.234
4-1320	4-2400	0.601	267.8	-20.9	1.32	1.300	116.7	0.742	2.900	296.1	546.2	0.749	5.051	-0.04	0.240	73.0	110.3	2.8	0.237
4-1320	4-2420	0.610	268.6	-20.9	1.32	1.300	117.2	0.745	2.906	295.0	546.9	0.741	5.070	-0.04	0.242	71.0	110.1	2.8	0.241
4-1320	4-2440	0.620	269.4	-21.0	1.32	1.300	117.7	0.748	2.912	293.8	547.6	0.733	5.091	-0.04	0.244	69.1	110.0	2.8	0.245
4-1320	4-2460	0.630	270.2	-21.1	1.32	1.301	118.3	0.752	2.919	292.6	548.2	0.724	5.114	-0.04	0.246	67.2	110.0	2.8	0.249
4-1320	4-2480	0.640	271.0	-21.1	1.31	1.301	118.9	0.756	2.927	291.4	548.8	0.715	5.139	-0.04	0.248	65.4	110.2	2.8	0.253
4-1320	4-2500	0.651	271.8	-21.2	1.31	1.301	119.5	0.760	2.935	290.1	549.4	0.705	5.165	-0.04	0.251	63.7	110.4	2.8	0.258
4-1320	4-2520	0.662	272.6	-21.2	1.31	1.302	120.1	0.764	2.944	288.8	549.9	0.695	5.193	-0.04	0.253	62.1	110.7	2.8	0.263

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1320	4-254C	0.674	273.4	-21.2	1.31	1.302	120.8	0.768	2.954	287.5	550.4	0.685	5.223	-0.04	0.255	60.5	111.1	2.8	0.268
4-1320	4-256C	0.686	274.3	-21.3	1.31	1.303	121.4	0.773	2.964	286.1	550.9	0.674	5.253	-0.04	0.258	58.9	111.6	2.8	0.273
4-1320	4-258C	0.698	275.1	-21.3	1.31	1.303	122.1	0.777	2.974	284.7	551.3	0.663	5.285	-0.04	0.260	57.4	112.2	2.8	0.278
4-1320	4-260C	0.711	276.0	-21.3	1.31	1.303	122.8	0.782	2.985	283.3	551.7	0.651	5.319	-0.04	0.263	56.0	112.9	2.8	0.283
4-1320	4-262C	0.724	276.8	-21.3	1.30	1.304	123.5	0.787	2.996	281.8	552.1	0.639	5.353	-0.04	0.265	54.5	113.7	2.8	0.288
4-1320	4-264C	0.738	277.7	-21.3	1.30	1.304	124.3	0.792	3.008	280.3	552.4	0.627	5.389	-0.04	0.267	53.2	114.5	2.8	0.294
4-1320	4-266C	0.751	278.6	-21.4	1.30	1.305	125.1	0.797	3.020	278.8	552.7	0.614	5.425	-0.04	0.270	51.8	115.4	2.7	0.299
4-1320	4-268C	0.766	279.5	-21.4	1.30	1.305	125.8	0.802	3.032	277.3	553.0	0.601	5.463	-0.04	0.272	50.5	116.3	2.7	0.305
4-1320	4-270C	0.780	280.3	-21.4	1.30	1.306	126.6	0.807	3.045	275.7	553.2	0.588	5.502	-0.04	0.275	49.3	117.3	2.7	0.310
4-1320	4-272C	0.795	281.2	-21.3	1.30	1.307	127.5	0.812	3.057	274.1	553.5	0.574	5.541	-0.04	0.277	48.0	118.4	2.7	0.316
4-1320	4-274C	0.810	282.1	-21.3	1.30	1.307	128.3	0.818	3.071	272.4	553.7	0.560	5.581	-0.04	0.279	46.8	119.5	2.6	0.322
4-1320	4-276C	0.826	283.0	-21.3	1.30	1.308	129.1	0.823	3.084	270.8	553.8	0.545	5.623	-0.04	0.282	45.6	120.7	2.6	0.328
4-1320	4-278C	0.842	283.9	-21.3	1.29	1.308	130.0	0.829	3.098	269.1	554.0	0.531	5.665	-0.04	0.284	44.4	121.9	2.6	0.333
4-1320	4-280C	0.858	284.8	-21.2	1.29	1.309	130.9	0.834	3.111	267.4	554.1	0.516	5.707	-0.04	0.286	43.2	123.1	2.5	0.339
4-1320	4-282C	0.874	285.7	-21.2	1.29	1.309	131.8	0.840	3.125	265.6	554.2	0.500	5.751	-0.04	0.289	42.1	124.4	2.5	0.345
4-1320	4-284C	0.891	286.6	-21.2	1.29	1.310	132.8	0.846	3.140	263.9	554.2	0.485	5.795	-0.04	0.291	41.0	125.8	2.5	0.351
4-1320	4-286C	0.908	287.5	-21.1	1.29	1.310	133.7	0.851	3.154	262.1	554.2	0.469	5.840	-0.05	0.293	39.8	127.1	2.4	0.357
4-1320	4-288C	0.925	288.4	-21.1	1.29	1.311	134.7	0.857	3.169	260.3	554.3	0.453	5.885	-0.05	0.295	38.7	128.5	2.4	0.363
4-1320	4-290C	0.943	289.3	-21.0	1.28	1.311	135.6	0.863	3.184	258.4	554.2	0.436	5.931	-0.05	0.297	37.6	130.0	2.3	0.369
4-1320	4-292C	0.961	290.2	-20.9	1.28	1.312	136.6	0.869	3.199	256.6	554.2	0.420	5.977	-0.05	0.299	36.5	131.4	2.3	0.375
4-1330	4-175C	0.668	267.6	-8.7	7.55	1.422	114.3	0.99188	8.515	311.2	493.7	0.816	---	-6.27	0.614	156.2	139.5	-0.5	0.616
4-1330	4-177C	0.631	266.4	-13.1	5.00	1.405	113.3	0.95116	6.787	312.0	496.2	0.825	---	-3.73	0.574	154.5	139.8	0.4	0.574
4-1330	4-179C	0.603	265.6	-15.0	3.92	1.390	112.5	0.916	9.948	312.9	498.7	0.833	---	-2.65	0.538	152.7	139.9	0.8	0.537
4-1330	4-181C	0.580	264.9	-16.0	3.32	1.378	111.7	0.886	7.385	313.6	501.2	0.840	---	-2.06	0.505	150.9	139.9	1.0	0.503
4-1330	4-183C	0.561	264.3	-16.6	2.94	1.367	111.0	0.860	6.052	314.3	503.6	0.846	---	-1.68	0.475	148.9	139.9	1.1	0.472
4-1330	4-185C	0.544	263.8	-17.1	2.67	1.357	110.4	0.837	5.240	314.9	505.9	0.852	---	-1.42	0.448	146.9	139.7	1.2	0.443
4-1330	4-187C	0.529	263.4	-17.3	2.48	1.349	109.9	0.818	4.698	315.4	508.2	0.856	---	-1.23	0.423	144.7	139.5	1.3	0.418
4-1330	4-189C	0.517	263.0	-17.6	2.33	1.342	109.5	0.801	4.313	315.9	510.4	0.860	---	-1.09	0.401	142.5	139.2	1.3	0.394
4-1330	4-191C	0.506	262.6	-17.7	2.21	1.336	109.1	0.786	4.028	316.3	512.5	0.864	---	-0.97	0.381	140.1	138.7	1.4	0.372
4-1330	4-1930	0.497	262.4	-17.9	2.12	1.331	108.8	0.773	3.810	316.6	514.6	0.866	---	-0.88	0.362	137.7	138.2	1.4	0.352
4-1330	4-1950	0.489	262.2	-18.0	2.04	1.326	108.5	0.761	3.640	316.9	516.6	0.869	---	-0.81	0.345	135.1	137.5	1.5	0.334
4-1330	4-1970	0.483	262.0	-18.1	1.97	1.322	108.3	0.752	3.504	317.0	518.5	0.870	---	-0.74	0.330	132.5	136.7	1.5	0.318
4-1330	4-199C	0.478	262.0	-18.2	1.91	1.319	108.1	0.743	3.395	317.1	520.3	0.872	---	-0.69	0.317	129.8	135.8	1.6	0.303
4-1330	4-201C	0.473	262.0	-18.3	1.86	1.316	108.0	0.736	3.305	317.2	522.1	0.872	---	-0.64	0.305	127.0	134.8	1.6	0.289
4-1330	4-2030	0.470	262.0	-18.4	1.82	1.313	107.9	0.730	3.231	317.1	523.8	0.873	---	-0.61	0.294	124.2	133.8	1.7	0.277
4-1330	4-2050	0.468	262.1	-18.5	1.78	1.311	107.9	0.725	3.171	317.0	525.5	0.873	---	-0.57	0.285	121.3	132.6	1.7	0.266
4-1330	4-207C	0.467	262.3	-18.6	1.74	1.309	107.9	0.720	3.120	316.8	527.1	0.872	---	-0.54	0.276	118.4	131.3	1.8	0.256
4-1330	4-209C	0.466	262.6	-18.7	1.71	1.307	108.0	0.717	3.078	316.6	528.6	0.871	---	-0.51	0.269	115.5	129.9	1.8	0.248
4-1330	4-211C	0.466	262.9	-18.8	1.68	1.306	108.0	0.714	3.043	316.3	530.1	0.870	---	-0.49	0.263	112.6	128.5	1.9	0.241
4-1330	4-2130	0.467	263.2	-18.9	1.66	1.305	108.1	0.712	3.014	315.9	531.5	0.868	---	-0.47	0.258	109.6	127.1	2.0	0.234
4-1330	4-2150	0.469	263.6	-19.0	1.63	1.303	108.3	0.710	2.990	315.5	532.8	0.866	---	-0.45	0.253	106.7	125.6	2.0	0.229
4-1330	4-217C	0.471	264.0	-19.1	1.61	1.303	108.5	0.709	2.970	315.0	534.1	0.864	---	-0.43	0.250	103.8	124.1	2.1	0.225
4-1330	4-2190	0.473	264.5	-19.2	1.59	1.302	108.7	0.708	2.954	314.4	535.4	0.861	---	-0.42	0.247	101.0	122.6	2.1	0.221
4-1330	4-221C	0.477	265.1	-19.3	1.57	1.301	108.9	0.708	2.941	313.8	536.6	0.858	---	-0.40	0.245	98.2	121.2	2.2	0.219
4-1330	4-2230	0.481	265.6	-19.4	1.55	1.301	109.2	0.708	2.931	313.2	537.7	0.855	---	-0.39	0.243	95.5	119.8	2.2	0.217
4-1330	4-2250	0.485	266.3	-19.5	1.54	1.301	109.5	0.709	2.923	312.5	538.8	0.851	---	-0.38	0.242	92.9	118.5	2.3	0.216
4-1330	4-227C	0.490	266.9	-19.6	1.52	1.300	109.8	0.710	2.918	311.8	539.9	0.847	---	-0.37	0.241	90.3	117.3	2.3	0.216
4-1330	4-229C	0.495	267.6	-19.7	1.51	1.300	110.1	0.711	2.915	311.0	540.9	0.843	4.987	-0.36	0.241	87.8	116.2	2.4	0.216
4-1330	4-231C	0.501	268.3	-19.8	1.49	1.300	110.5	0.712	2.913	310.1	541.9	0.838	4.988	-0.35	0.241	85.4	115.2	2.4	0.217
4-1330	4-233C	0.507	269.0	-19.9	1.48	1.300	110.9	0.714	2.913	309.2	542.8	0.833	4.992	-0.34	0.242	83.1	114.3	2.4	0.218
4-1330	4-235C	0.514	269.8	-20.0	1.46	1.300	111.3	0.716	2.914	308.3	543.7	0.828	5.000	-0.33	0.243	80.9	113.5	2.5	0.220
4-1330	4-237C	0.521	270.5	-20.1	1.45	1.300	111.7	0.718	2.916	307.3	544.5	0.822	5.011	-0.32	0.244	78.8	112.9	2.5	0.223
4-1330	4-239C	0.528	271.3	-20.2	1.44	1.300	112.1	0.721	2.920	306.3	545.3	0.816	5.024	-0.32	0.245	76.7	112.4	2.5	0.225
4-1330	4-241C	0.536	272.2	-20.2	1.43	1.301	112.6	0.723	2.924	305.3	546.1	0.809	5.039	-0.31	0.247	74.7	112.0	2.5	0.228
4-1330	4-2430	0.545	273.0	-20.3	1.42	1.301	113.1	0.726	2.929	304.2	546.8	0.802	5.057	-0.31	0.248	72.8	111.7	2.5	0.232
4-1330	4-2450	0.553	273.8	-20.4	1.41	1.301	113.6	0.729	2.936	303.1	547.5	0.795	5.076	-0.30	0.250	71.0	111.5	2.6	0.235
4-1330	4-2470	0.562	274.7	-20.4	1.40	1.301	114.1	0.732	2.942	301.9	548.2	0.787	5.098	-0.30	0.252	69.2	111.5	2.6	0.239
4-1330	4-249C	0.572	275.6	-20.5	1.39	1.302	114.7	0.736	2.950	300.7	548.8	0.780	5.121	-0.29	0.254	67.5	111.6	2.6	0.243
4-1330	4-251C	0.582	276.4	-20.5	1.38	1.302	115.3	0.739	2.958	299.5	549.4	0.771	5.145	-0.29	0.256	65.9	111.7	2.6	0.247
4-1330	4-2530	0.592	277.3	-20.6	1.37	1.303	115.9	0.743	2.967	298.2	550.0	0.763	5.172	-0.29	0.258	64.3	112.0	2.6	0.252
4-1330	4-255C	0.603	278.2	-20.6	1.36	1.303	116.5	0.747	2.976	296.9	550.5	0.753	5.199	-0.28	0.260	62.8	112.4	2.6	0.256
4-1330	4-257C	0.614	279.1	-20.6	1.35	1.303	117.1	0.751	2.986	295.6	551.0	0.744	5.229	-0.28	0.263	61.3	112.8	2.6	0.261
4-1330	4-259C	0.625	280.0	-20.6	1.34	1.304	117.7	0.755	2.997	294.2	551.5	0.734	5.259	-0.28	0.265	59.9	113.4	2.6	0.266
4-1330	4-261C	0.637	280.9	-20.7	1.33	1.304	118.4	0.759	3.007	292.9	552.0	0.724	5.291	-0.28	0.267	58.5	114.0	2.6	0.270
4-1330	4-263C	0.649	281.9	-20.7	1.32	1.305	119.1	0.764	3.018	291.4	552.4	0.713	5.323	-0.28	0.270	57.2	114.7	2.6	0.275
4-1330	4-2650	0.661	282.8	-20.7	1.31	1.305	119.8	0.768	3.030	290.0	552.8	0.702	5.357	-0.27	0.272	55.9	115.4	2.5	0.280
4-1330	4-2670	0.674	283.7	-20.7	1.30	1.306	120.5	0.773	3.042	288.5	553.1	0.691	5.392	-0.27	0.274	54.6	116.3	2.5	0.286
4-1330	4-269C	0.687	284.6	-20.6	1.29	1.306	121.2	0.778	3.054	287.0	553.5	0.679	5.428	-0.27	0.276	53.4	117.2	2.5	0.291
4-1330	4-2710	0.701	285.6	-20.6	1.28	1.307	121.9	0.782	3.066	285.5	553.8	0.667	5.465	-0.27	0.279	52.2	118.1	2.5	0.296
4-1330	4-2730	0.714	286.5	-20.6	1.28	1.307	122.7	0.787	3.079	284.0	554.1	0.655	5.503	-0.27	0.281	51.0	119.1	2.5	0.301
4-1330	4-275C	0.729	287.4	-20.6	1.27	1.308	123.5	0.792	3.092	282.4	554.3	0.642	5.541	-0.27	0.283	49.9	120.2	2.5	0.307
4-1330	4-277C	0.743	288.3	-20.5	1.26	1.308	124.3	0.797	3.105	280.8	554.5	0.629	5.581	-0.27	0.285	48.7	121.3	2.4	0.312
4-1330	4-279C	0.758	289.3	-20.5	1.25	1.309	125.1	0.803	3.118	279.1	554.7	0.615	5.621	-0.27	0.288	47.6	122.5	2.4	0.317
4-1330	4-281C	0.773	290.2	-20.4	1.24	1.309	125.9	0.808	3.132	277.5	554.9	0.601	5.662	-0.27	0.290	46.5	123.7	2.4	0.323
4-1330	4-283C	0.788	291.1	-20.4	1.23	1.310	126.8	0.813	3.145	275.8	555.1	0.587	5.704	-0.28	0.292	45.4	124.9	2.3	0.328
4-1330	4-285C	0.804	292.0	-20.3	1.22	1.310	127.6	0.819	3.159	274.1	555.2	0.572	5.747	-0.28	0.294	44.4	126.2	2.3	0.334
4-1330	4-287C	0.820	293.0	-20.2	1.21	1.311	128.5	0.824	3.174	272.4	555.3	0.558	5.790	-0.28	0.296	43.3	127.5	2.3	0.339
4-1330	4-289C	0.836	293.9	-20.1	1.21	1.311	129.4	0.830	3.188	270.6	555.4	0.542	5.834	-0.28	0.298	42.3	128.9	2.2	0.345
4-1330	4-291C	0.853	294.8	-20.1	1.20	1.312	130.3	0.835	3.203	268.9	555.4	0.527	5.878	-0.28	0.300	41.3	130.3	2.2	0.350
4-1330	4-293C	0.869	295.7	-20.0	1.19	1.313	131.3	0.841	3.217	267.1	555.4	0.511	5.923	-0.29	0.302	40.2	131.7	2.1	0.356

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

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1360	4-2440	0.372	277.3	-15.3	2.32	1.300	101.0	0.684	2.981	332.9	546.0	0.943	5.020	-1.62	0.260	77.5	115.6	0.8	0.211
4-1360	4-2460	0.377	278.6	-15.7	2.23	1.301	101.4	0.685	2.987	331.8	546.7	0.940	5.035	-1.54	0.262	75.9	115.3	0.9	0.214
4-1360	4-2480	0.383	279.9	-16.0	2.14	1.301	101.9	0.687	2.994	330.8	547.5	0.936	5.051	-1.47	0.263	74.3	115.1	1.1	0.217
4-1360	4-2500	0.389	281.2	-16.3	2.07	1.301	102.3	0.689	3.001	329.7	548.2	0.932	5.070	-1.41	0.265	72.7	115.0	1.1	0.220
4-1360	4-2520	0.396	282.5	-16.5	2.00	1.301	102.8	0.692	3.009	328.5	548.9	0.928	5.090	-1.36	0.267	71.3	115.0	1.2	0.223
4-1360	4-2540	0.403	283.8	-16.7	1.93	1.302	103.3	0.694	3.017	327.4	549.6	0.923	5.111	-1.31	0.269	69.9	115.1	1.3	0.226
4-1360	4-2560	0.410	285.2	-16.9	1.87	1.302	103.8	0.696	3.026	326.2	550.2	0.919	5.134	-1.27	0.271	68.5	115.3	1.4	0.229
4-1360	4-2580	0.417	286.5	-17.0	1.82	1.303	104.3	0.699	3.036	325.0	550.9	0.914	5.158	-1.23	0.273	67.2	115.6	1.4	0.233
4-1360	4-2600	0.425	287.8	-17.2	1.76	1.303	104.9	0.702	3.046	323.7	551.5	0.908	5.183	-1.19	0.275	66.0	116.0	1.5	0.237
4-1360	4-2620	0.434	289.1	-17.3	1.71	1.303	105.4	0.705	3.056	322.4	552.0	0.903	5.209	-1.16	0.277	64.7	116.4	1.5	0.240
4-1360	4-2640	0.442	290.4	-17.3	1.67	1.304	106.0	0.708	3.067	321.2	552.5	0.897	5.237	-1.13	0.279	63.6	117.0	1.6	0.244
4-1360	4-2660	0.451	291.7	-17.4	1.62	1.304	106.5	0.711	3.078	319.8	553.1	0.890	5.266	-1.10	0.281	62.4	117.6	1.6	0.248
4-1360	4-2680	0.460	293.0	-17.4	1.58	1.305	107.1	0.714	3.089	318.5	553.5	0.884	5.295	-1.08	0.283	61.3	118.2	1.6	0.252
4-1360	4-2700	0.470	294.3	-17.4	1.54	1.305	107.7	0.717	3.101	317.1	554.0	0.877	5.326	-1.05	0.285	60.3	119.0	1.7	0.256
4-1360	4-2720	0.480	295.6	-17.4	1.50	1.306	108.4	0.721	3.113	315.7	554.5	0.870	5.357	-1.03	0.287	59.2	119.8	1.7	0.260
4-1360	4-2740	0.490	296.8	-17.4	1.46	1.306	109.0	0.724	3.126	314.3	554.9	0.862	5.389	-1.01	0.289	58.2	120.6	1.7	0.265
4-1360	4-2760	0.501	298.1	-17.4	1.42	1.307	109.6	0.728	3.138	312.9	555.3	0.854	5.422	-1.00	0.292	57.3	121.5	1.7	0.269
4-1360	4-2780	0.511	299.3	-17.3	1.39	1.307	110.3	0.732	3.151	311.4	555.6	0.846	5.456	-0.98	0.294	56.3	122.5	1.7	0.273
4-1360	4-2800	0.523	300.5	-17.2	1.35	1.308	111.0	0.735	3.164	309.9	556.0	0.837	5.491	-0.96	0.295	55.4	123.5	1.7	0.277
4-1360	4-2820	0.534	301.7	-17.2	1.32	1.308	111.6	0.739	3.177	308.4	556.3	0.828	5.526	-0.95	0.297	54.4	124.5	1.7	0.282
4-1360	4-2840	0.546	302.9	-17.1	1.29	1.309	112.3	0.743	3.191	306.9	556.6	0.819	5.563	-0.94	0.299	53.5	125.6	1.7	0.286
4-1360	4-2860	0.558	304.1	-17.0	1.26	1.309	113.0	0.747	3.204	305.4	556.9	0.809	5.599	-0.93	0.301	52.7	126.8	1.7	0.290
4-1360	4-2880	0.570	305.2	-16.9	1.23	1.310	113.8	0.752	3.218	303.8	557.2	0.799	5.637	-0.92	0.303	51.8	127.9	1.7	0.295
4-1360	4-2900	0.583	306.4	-16.7	1.20	1.310	114.5	0.756	3.232	302.2	557.4	0.789	5.675	-0.91	0.305	50.9	129.1	1.7	0.299
4-1360	4-2920	0.596	307.5	-16.6	1.17	1.311	115.2	0.760	3.246	300.7	557.6	0.778	5.714	-0.91	0.307	50.1	130.4	1.6	0.303
4-1360	4-2940	0.609	308.6	-16.5	1.14	1.311	116.0	0.765	3.260	299.0	557.8	0.767	5.754	-0.90	0.308	49.3	131.7	1.6	0.308
4-1360	4-2960	0.622	309.7	-16.3	1.11	1.312	116.8	0.769	3.275	297.4	558.0	0.755	6.794	-0.89	0.310	48.5	133.0	1.6	0.312
4-1370	4-1690	0.603	278.1	-24.0	-0.31	1.542	102.4	1.338	-2.812	338.4	475.2	0.949	---	1.52	0.862	160.4	142.8	2.4	0.847
4-1370	4-1710	0.557	276.3	-24.3	-0.38	1.506	101.2	1.235	-4.071	339.8	478.3	0.956	---	1.57	0.796	159.1	143.1	2.4	0.781
4-1370	4-1730	0.518	274.5	-24.6	-0.45	1.476	100.1	1.149	-6.438	341.2	481.4	0.961	---	1.62	0.737	157.8	143.5	2.5	0.722
4-1370	4-1750	0.485	272.7	-25.0	-0.53	1.450	99.0	1.078	12.415	342.6	484.5	0.966	---	1.68	0.685	156.3	143.7	2.5	0.670
4-1370	4-1770	0.457	270.8	-25.3	-0.61	1.428	98.1	1.018	55.052	343.9	487.5	0.970	---	1.75	0.638	154.8	143.9	2.6	0.622
4-1370	4-1790	0.433	268.9	-25.7	-0.70	1.410	97.3	0.967	29.271	345.1	490.4	0.973	---	1.82	0.596	153.1	144.1	2.6	0.580
4-1370	4-1810	0.412	267.1	-26.1	-0.80	1.394	96.6	0.924	12.760	346.3	493.3	0.976	---	1.90	0.559	151.4	144.2	2.7	0.541
4-1370	4-1830	0.395	265.4	-26.6	-0.91	1.381	95.9	0.887	8.631	347.4	496.1	0.978	---	2.00	0.525	149.6	144.2	2.8	0.506
4-1370	4-1850	0.380	263.7	-27.0	-1.04	1.369	95.3	0.855	6.766	348.4	498.9	0.980	---	2.10	0.494	147.7	144.2	3.0	0.474
4-1370	4-1870	0.367	262.1	-27.6	-1.17	1.359	94.8	0.828	5.711	349.4	501.5	0.981	---	2.22	0.466	145.7	144.0	3.1	0.445
4-1370	4-1890	0.356	260.6	-28.2	-1.32	1.350	94.4	0.805	5.037	350.2	504.1	0.983	---	2.36	0.441	143.6	143.8	3.3	0.418
4-1370	4-1910	0.347	259.3	-28.9	-1.50	1.343	94.0	0.785	4.573	350.9	506.6	0.984	---	2.51	0.418	141.4	143.5	3.5	0.394
4-1370	4-1930	0.339	258.1	-29.7	-1.69	1.336	93.7	0.768	4.237	351.6	508.9	0.985	---	2.69	0.397	139.2	143.1	3.7	0.371
4-1370	4-1950	0.333	257.0	-30.6	-1.92	1.331	93.4	0.753	3.985	352.1	511.2	0.985	---	2.91	0.378	136.8	142.6	4.0	0.351
4-1370	4-1970	0.328	256.1	-31.8	-2.19	1.326	93.2	0.740	3.790	352.6	513.4	0.986	---	3.16	0.362	134.4	142.0	4.3	0.332
4-1370	4-1990	0.324	255.3	-33.1	-2.52	1.322	93.0	0.729	3.636	352.9	515.5	0.986	---	3.47	0.346	131.9	141.4	4.8	0.316
4-1370	4-2010	0.321	254.6	-34.8	-2.91	1.318	92.8	0.719	3.512	353.2	517.5	0.986	---	3.85	0.333	129.3	140.6	5.3	0.300
4-1370	4-2030	0.319	254.0	-36.8	-3.40	1.315	92.8	0.711	3.412	353.4	519.5	0.986	---	4.32	0.321	126.7	139.7	5.9	0.286
4-1370	4-2050	0.319	253.5	-39.5	-4.03	1.312	92.7	0.704	3.331	353.5	521.3	0.987	---	4.94	0.310	124.1	138.7	6.7	0.274
4-1370	4-2070	0.322	253.0	-42.9	-4.88	1.310	92.7	0.698	3.263	353.5	523.1	0.987	---	5.77	0.301	121.4	137.6	7.7	0.263
4-1370	4-2090	0.328	252.5	-47.6	-6.07	1.308	92.7	0.692	3.207	353.4	524.8	0.987	---	6.94	0.293	118.7	136.4	9.1	0.254
4-1370	4-2110	0.342	251.7	-54.2	-7.86	1.306	92.7	0.688	3.161	353.3	526.5	0.986	---	8.72	0.285	115.9	135.0	11.2	0.247
4-1370	4-2130	0.372	250.1	-64.1	-10.90	1.304	92.8	0.684	3.123	353.1	528.0	0.986	---	11.74	0.279	113.2	133.6	14.6	0.244
4-1370	4-2150	0.454	242.1	-79.8	-17.06	1.303	92.9	0.681	3.091	352.9	529.5	0.986	---	17.89	0.274	110.5	131.6	20.7	0.250
4-1370	4-2170	0.755	78.1	-72.5	-35.19	1.302	92.9	0.678	3.064	352.7	531.0	0.986	---	36.00	0.270	107.9	127.4	32.1	0.305
4-1370	4-2190	1.372	353.4	74.8	71.50	1.301	93.5	0.676	3.043	351.2	532.3	0.985	---	-70.71	0.266	105.4	118.5	-29.8	0.450
4-1370	4-2210	0.605	271.9	49.5	26.45	1.301	93.5	0.675	3.025	351.3	533.7	0.985	---	-25.68	0.263	102.7	125.3	-22.8	0.260
4-1370	4-2230	0.432	266.3	29.9	15.46	1.300	93.7	0.673	3.011	350.8	534.9	0.984	---	-14.70	0.261	100.2	125.6	-14.3	0.225
4-1370	4-2250	0.374	265.1	18.0	10.97	1.299	93.9	0.672	3.000	350.3	536.2	0.984	---	-10.23	0.259	97.8	124.8	-9.8	0.214
4-1370	4-2270	0.349	265.1	10.2	8.56	1.299	94.1	0.671	2.991	349.7	537.3	0.983	---	-7.83	0.258	95.4	123.7	-7.1	0.208
4-1370	4-2290	0.337	265.5	4.8	7.05	1.299	94.4	0.671	2.985	349.0	538.5	0.982	---	-6.35	0.257	93.1	122.6	-5.4	0.205
4-1370	4-2310	0.330	266.3	0.9	6.03	1.299	94.7	0.671	2.981	348.3	539.5	0.981	---	-5.34	0.257	90.9	121.5	-4.1	0.203
4-1370	4-2330	0.327	267.3	-2.1	5.28	1.299	95.0	0.671	2.979	347.8	540.6	0.980	4.978	-4.60	0.257	88.8	120.4	-3.2	0.203
4-1370	4-2350	0.326	268.4	-4.4	4.71	1.299	95.3	0.671	2.978	346.7	541.6	0.979	4.978	-4.05	0.258	86.8	119.5	-2.5	0.202
4-1370	4-2370	0.326	269.6	-6.3	4.26	1.299	95.7	0.672	2.979	345.9	542.5	0.977	4.981	-3.62	0.258	84.8	118.7	-1.9	0.203
4-1370	4-2390	0.327	270.9	-7.9	3.90	1.299	96.0	0.673	2.981	345.0	543.5	0.976	4.987	-3.28	0.259	82.9	117.9	-1.4	0.204
4-1370	4-2410	0.329	272.2	-9.2	3.60	1.299	96.4	0.674	2.985	344.1	544.4	0.974	4.995	-2.99	0.260	81.1	117.3	-1.0	0.205
4-1370	4-2430	0.332	273.6	-10.3	3.35	1.299	96.8	0.675	2.989	343.1	545.2	0.972	5.006	-2.76	0.262	79.4	116.8	-0.7	0.207
4-1370	4-2450	0.335	275.1	-11.2	3.13	1.299	97.2	0.676	2.994	342.1	546.0	0.970	5.019	-2.56	0.263	77.7	116.4	-0.4	0.209
4-1370	4-2470	0.339	276.6	-12.0	2.94	1.299	97.6	0.677	3.000	341.1	546.8	0.968	5.033	-2.39	0.265	76.2	116.1	-0.2	0.211
4-1370	4-2490	0.343	278.1	-12.7	2.78	1.300	98.1	0.679	3.007	340.0	547.6	0.965	5.049	-2.24	0.266	74.6	115.9	0.1	0.214
4-1370	4-2510	0.347	279.7	-13.3	2.63	1.300	98.5	0.681	3.015	338.9	548.3	0.962	5.067	-2.11	0.268	73.2	115.8	0.3	0.216
4-1370	4-2530	0.352	281.2	-13.8	2.50	1.300	99.0	0.683	3.023	337.8	549.0	0.959	5.086	-2.00	0.270	71.8	115.8	0.4	0.219
4-1370	4-2550	0.357	282.8	-14.3	2.39	1.301	99.5	0.685	3.032	336.7	549.7	0.956	5.107	-1.90	0.272	70.4	115.9	0.6	0.222
4-1370	4-2570	0.363	284.4	-14.7	2.28	1.301	100.0	0.687	3.041	335.5	550.4	0.953	5.129	-1.81	0.274	69.2	116.1	0.7	0.225
4-1370	4-2590	0.369	286.0	-15.0	2.18	1.302	100.5	0.689	3.051	334.3	551.0	0.949	5.153	-1.73	0.276	67.9	116.4	0.8	0.229
4-1370	4-2610	0.376	287.5	-15.3	2.09	1.302	101.0	0.691	3.061	333.0	551.6	0.945	5.177	-1.66	0.278	66.7	116.8	0.9	0.232
4-1370	4-2630	0.383	289.1	-15.5	2.01	1.302	101.5	0.694	3.072	331.8	552.2	0.941	5.202	-1.60	0.280	65.6	117.2	1.0	0.236
4-1370	4-2650	0.390	290.7	-15.7	1.94	1.303	102.1	0.696	3.083	330.5	552.7	0.937	5.229	-1.54	0.282	64.5	117.8	1.1	0.239
4-1370	4-2670	0.398	292.2	-15.8	1.86	1.303	102.6	0.699	3.094	329.2	553.2	0.932	5.257	-1.49	0.284	63.4	118.4	1.1	0.243
4-1370	4-2690	0.405	293.7	-15.9	1.80	1.304	103.2	0.702	3.106	327.9	553.7	0.927	5.285	-1.44	0.286	62.4	119.0	1.2	0.247
4-1370	4-2710	0.414	295.3	-16.0	1.74	1.304	103.8	0.705	3.118	326.5	554.2	0.921	5.314	-1.40	0.288	61.4	119.8	1.2	0.250
4-1370	4-2730	0.422	296.7	-16.1	1.68	1.305	104.4	0.707	3.130	325.1	554.7	0.916	5.345	-1.36	0.290	60.4	120.6	1.3	0.254

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1370	4-2750	0.431	298.2	-16.1	1.62	1.305	105.0	0.711	3.143	323.7	555.1	0.910	5.376	-1.33	0.292	59.4	121.4	1.3	0.258
4-1370	4-2770	0.441	299.7	-16.1	1.57	1.306	105.6	0.714	3.155	322.3	555.5	0.903	5.408	-1.29	0.294	58.5	122.3	1.4	0.262
4-1370	4-2790	0.450	301.1	-16.0	1.52	1.306	106.2	0.717	3.168	320.9	555.9	0.897	5.440	-1.27	0.296	57.6	123.2	1.4	0.266
4-1370	4-2810	0.460	302.5	-16.0	1.47	1.307	106.8	0.720	3.182	319.4	556.3	0.890	5.473	-1.24	0.298	56.8	124.2	1.4	0.270
4-1370	4-2830	0.470	303.9	-15.9	1.42	1.307	107.5	0.724	3.195	318.0	556.7	0.882	5.508	-1.21	0.300	55.9	125.3	1.4	0.274
4-1370	4-2850	0.481	305.3	-15.8	1.38	1.308	108.2	0.727	3.209	316.5	557.0	0.875	5.542	-1.19	0.302	55.1	126.3	1.4	0.278
4-1370	4-2870	0.492	306.6	-15.7	1.34	1.308	108.8	0.731	3.222	315.0	557.3	0.867	5.578	-1.17	0.304	54.2	127.5	1.4	0.282
4-1370	4-2890	0.503	307.9	-15.6	1.30	1.309	109.5	0.735	3.236	313.4	557.6	0.858	5.614	-1.15	0.306	53.4	128.6	1.4	0.286
4-1370	4-2910	0.514	309.2	-15.5	1.26	1.309	110.2	0.739	3.250	311.9	557.9	0.850	5.650	-1.14	0.307	52.6	129.8	1.4	0.290
4-1370	4-2930	0.526	310.5	-15.3	1.22	1.310	110.9	0.742	3.264	310.3	558.1	0.841	5.688	-1.12	0.309	51.9	131.0	1.4	0.294
4-1370	4-2950	0.538	311.7	-15.2	1.18	1.310	111.6	0.746	3.278	308.8	558.4	0.831	5.726	-1.11	0.311	51.1	132.2	1.4	0.298
4-1370	4-2970	0.550	312.9	-15.0	1.14	1.311	112.4	0.751	3.293	307.2	558.6	0.821	5.764	-1.09	0.313	50.3	133.5	1.4	0.302
4-1380	4-1680	0.599	277.1	-23.9	-0.24	1.573	98.3	1.446-2.183		345.9	471.9	0.974	---	1.43	0.919	161.0	143.2	2.3	0.902
4-1380	4-1700	0.551	275.0	-24.2	-0.29	1.531	97.1	1.321-3.049		347.5	475.1	0.978	---	1.46	0.846	159.8	143.6	2.3	0.829
4-1380	4-1720	0.510	272.7	-24.4	-0.35	1.496	96.0	1.218-4.500		349.0	478.3	0.982	---	1.50	0.781	158.5	143.9	2.4	0.764
4-1380	4-1740	0.475	270.3	-24.7	-0.41	1.467	95.1	1.133-7.388		350.5	481.5	0.984	---	1.54	0.724	157.1	144.2	2.4	0.706
4-1380	4-1760	0.446	268.0	-24.9	-0.47	1.442	94.1	1.06215-7.787		352.0	484.7	0.987	---	1.58	0.673	155.6	144.4	2.5	0.655
4-1380	4-1780	0.422	265.6	-25.2	-0.54	1.421	93.3	1.00399-8.193		353.4	487.8	0.988	---	1.62	0.627	154.1	144.6	2.5	0.609
4-1380	4-1800	0.402	263.3	-25.4	-0.61	1.404	92.6	0.95421-8.282		354.7	490.8	0.989	---	1.67	0.586	152.4	144.7	2.6	0.567
4-1380	4-1820	0.384	261.0	-25.6	-0.68	1.388	91.9	0.91111-8.171		355.9	493.8	0.990	---	1.73	0.549	150.7	144.7	2.6	0.529
4-1380	4-1840	0.370	258.9	-25.9	-0.76	1.375	91.4	0.876	7.963	357.1	496.6	0.991	---	1.79	0.515	148.8	144.7	2.7	0.495
4-1380	4-1860	0.358	256.9	-26.1	-0.85	1.364	90.8	0.845	6.398	358.1	499.4	0.991	---	1.85	0.485	146.9	144.6	2.8	0.464
4-1380	4-1880	0.347	255.1	-26.4	-0.94	1.354	90.4	0.819	5.479	359.1	502.1	0.992	---	1.93	0.458	144.9	144.4	3.0	0.435
4-1380	4-1900	0.339	253.5	-26.7	-1.04	1.346	90.0	0.797	4.878	360.0	504.7	0.992	---	2.01	0.433	142.8	144.2	3.1	0.409
4-1380	4-1920	0.331	252.0	-27.1	-1.15	1.339	89.7	0.778	4.458	0.7	147.2	---	---	2.10	0.411	140.6	143.8	3.2	0.385
4-1380	4-1940	0.325	250.7	-27.5	-1.27	1.333	89.4	0.761	4.150	1.4	149.6	---	---	2.20	0.391	138.3	143.4	3.4	0.364
4-1380	4-1960	0.320	249.5	-28.0	-1.40	1.327	89.2	0.747	3.917	1.9	151.8	---	---	2.31	0.373	135.9	142.8	3.6	0.344
4-1380	4-1980	0.316	248.6	-28.6	-1.55	1.323	89.0	0.735	3.736	2.4	154.0	---	---	2.44	0.357	133.5	142.2	3.8	0.326
4-1380	4-2000	0.312	247.8	-29.2	-1.72	1.319	88.9	0.724	3.593	2.7	156.1	---	---	2.59	0.342	130.9	141.4	4.1	0.309
4-1380	4-2020	0.309	247.1	-30.0	-1.91	1.315	88.8	0.715	3.478	3.0	158.1	---	---	2.76	0.329	128.4	140.6	4.4	0.294
4-1380	4-2040	0.307	246.7	-31.0	-2.13	1.312	88.7	0.707	3.384	3.1	160.1	---	---	2.96	0.317	125.7	139.7	4.7	0.281
4-1380	4-2060	0.305	246.3	-32.0	-2.38	1.310	88.7	0.700	3.308	3.2	161.9	---	---	3.19	0.307	123.1	138.6	5.1	0.269
4-1380	4-2080	0.304	246.1	-33.4	-2.67	1.307	88.7	0.695	3.245	3.2	163.7	---	---	3.47	0.298	120.4	137.5	5.5	0.258
4-1380	4-2100	0.303	246.0	-34.9	-3.02	1.305	88.7	0.690	3.192	3.1	165.3	---	---	3.80	0.290	117.7	136.3	6.1	0.248
4-1380	4-2120	0.303	245.9	-36.8	-3.45	1.304	88.8	0.685	3.149	2.9	166.9	---	---	4.21	0.284	115.0	135.1	6.7	0.240
4-1380	4-2140	0.304	246.0	-39.1	-3.99	1.302	88.9	0.682	3.113	2.7	168.5	---	---	4.73	0.278	112.3	133.7	7.5	0.232
4-1380	4-2160	0.307	246.0	-42.1	-4.67	1.301	89.0	0.679	3.084	2.4	170.0	---	---	5.40	0.273	109.6	132.4	8.4	0.226
4-1380	4-2180	0.312	245.9	-45.8	-5.58	1.300	89.2	0.676	3.059	2.0	171.4	---	---	6.29	0.269	107.0	131.0	9.6	0.221
4-1380	4-2200	0.321	245.6	-50.8	-6.86	1.299	89.4	0.674	3.039	1.6	172.7	---	---	7.54	0.266	104.4	129.6	11.3	0.218
4-1380	4-2220	0.339	244.6	-57.7	-8.77	1.299	89.5	0.672	3.023	1.1	174.0	---	---	9.44	0.263	101.9	128.2	13.7	0.217
4-1380	4-2240	0.375	241.0	-67.7	-11.95	1.298	89.8	0.671	3.011	0.6	175.3	---	---	12.60	0.261	99.4	126.8	17.3	0.219
4-1380	4-2260	0.464	215.7	-81.9	-18.24	1.298	90.0	0.670	3.001	0.1	176.5	---	---	18.88	0.260	97.0	125.3	23.5	0.233
4-1380	4-2280	0.756	89.3	-70.4	-35.53	1.297	90.2	0.669	2.994	359.6	537.6	0.992	---	36.15	0.259	94.7	123.3	33.8	0.293
4-1380	4-2300	1.496	31.7	77.9	79.83	1.297	91.0	0.668	2.988	357.5	538.7	0.991	---	-79.24	0.258	92.6	118.8	-29.1	0.482
4-1380	4-2320	0.665	270.4	56.4	30.31	1.297	91.0	0.668	2.985	357.5	539.8	0.991	---	-29.73	0.258	90.4	120.5	-26.1	0.266
4-1380	4-2340	0.452	265.8	35.6	17.36	1.297	91.3	0.668	2.984	356.8	540.8	0.991	4.977	-16.80	0.258	88.3	120.2	-16.9	0.223
4-1380	4-2360	0.379	265.3	22.6	12.14	1.297	91.6	0.668	2.984	356.0	541.8	0.991	4.978	-11.60	0.259	86.4	119.6	-11.6	0.212
4-1380	4-2380	0.348	265.8	13.9	9.36	1.297	91.9	0.668	2.986	355.2	542.8	0.990	4.981	-8.84	0.260	84.5	118.8	-8.4	0.207
4-1380	4-2400	0.332	266.7	7.9	7.64	1.297	92.3	0.669	2.989	354.3	543.7	0.990	4.988	-7.14	0.261	82.6	118.2	-6.3	0.206
4-1380	4-2420	0.324	267.9	3.4	6.48	1.297	92.7	0.670	2.993	353.4	544.6	0.989	4.996	-5.99	0.262	80.9	117.6	-4.8	0.206
4-1380	4-2440	0.320	269.3	0.0	5.63	1.298	93.0	0.670	2.998	352.4	545.4	0.988	5.007	-5.16	0.264	79.3	117.2	-3.7	0.207
4-1380	4-2460	0.318	270.8	-2.7	4.99	1.298	93.5	0.671	3.003	351.4	546.2	0.987	5.020	-4.54	0.265	77.7	116.8	-2.9	0.208
4-1380	4-2480	0.317	272.4	-4.8	4.48	1.298	93.9	0.672	3.010	350.4	547.0	0.986	5.034	-4.05	0.267	76.1	116.6	-2.3	0.210
4-1380	4-2500	0.318	274.1	-6.6	4.08	1.298	94.3	0.674	3.017	349.3	547.8	0.985	5.050	-3.66	0.269	74.7	116.4	-1.7	0.212
4-1380	4-2520	0.320	275.9	-8.0	3.74	1.299	94.7	0.675	3.025	348.2	548.5	0.983	5.068	-3.35	0.270	73.3	116.4	-1.3	0.215
4-1380	4-2540	0.322	277.7	-9.2	3.45	1.299	95.2	0.677	3.034	347.1	549.2	0.981	5.087	-3.08	0.272	72.0	116.4	-0.9	0.217
4-1380	4-2560	0.325	279.5	-10.2	3.21	1.299	95.7	0.678	3.043	345.9	549.9	0.980	5.107	-2.86	0.274	70.7	116.6	-0.6	0.220
4-1380	4-2580	0.329	281.3	-11.1	3.00	1.300	96.2	0.680	3.053	344.8	550.5	0.977	5.129	-2.67	0.276	69.5	116.8	-0.4	0.223
4-1380	4-2600	0.333	283.2	-11.8	2.82	1.300	96.7	0.682	3.063	343.5	551.2	0.975	5.151	-2.50	0.278	68.3	117.1	-0.1	0.226
4-1380	4-2620	0.337	285.0	-12.5	2.66	1.301	97.2	0.684	3.074	342.3	551.8	0.973	5.175	-2.36	0.280	67.2	117.5	0.1	0.229
4-1380	4-2640	0.342	286.9	-13.0	2.51	1.301	97.7	0.686	3.085	341.1	552.3	0.970	5.200	-2.23	0.283	66.1	118.0	0.2	0.233
4-1380	4-2660	0.348	288.7	-13.4	2.38	1.302	98.2	0.688	3.096	339.8	552.9	0.967	5.226	-2.12	0.285	65.0	118.5	0.4	0.236
4-1380	4-2680	0.353	290.6	-13.8	2.26	1.302	98.8	0.690	3.108	338.5	553.4	0.963	5.253	-2.03	0.287	64.0	119.1	0.5	0.239
4-1380	4-2700	0.360	292.4	-14.0	2.15	1.303	99.3	0.692	3.120	337.2	553.9	0.960	5.280	-1.94	0.289	63.0	119.8	0.6	0.243
4-1380	4-2720	0.366	294.2	-14.3	2.05	1.303	99.9	0.695	3.132	335.8	554.4	0.956	5.309	-1.86	0.291	62.1	120.5	0.7	0.246
4-1380	4-2740	0.373	296.0	-14.4	1.96	1.304	100.4	0.697	3.145	334.5	554.9	0.952	5.338	-1.79	0.293	61.2	121.3	0.8	0.250
4-1380	4-2760	0.381	297.8	-14.6	1.88	1.304	101.0	0.700	3.158	333.1	555.4	0.947	5.368	-1.72	0.295	60.3	122.1	0.9	0.253
4-1380	4-2780	0.388	299.5	-14.6	1.80	1.305	101.6	0.703	3.171	331.7	555.8	0.943	5.399	-1.67	0.297	59.4	123.0	0.9	0.257
4-1380	4-2800	0.396	301.2	-14.7	1.72	1.305	102.2	0.705	3.184	330.3	556.2	0.938	5.430	-1.61	0.299	58.6	124.0	1.0	0.260
4-1380	4-2820	0.405	302.9	-14.7	1.65	1.306	102.8	0.708	3.197	328.9	556.6	0.932	5.462	-1.57	0.301	57.8	124.9	1.0	0.264
4-1380	4-2840	0.414	304.5	-14.7	1.59	1.306	103.5	0.711	3.211	327.4	557.0	0.927	5.495	-1.52	0.303	57.0	126.0	1.0	0.268
4-1380	4-2860	0.423	306.1	-14.6	1.53	1.307	104.1	0.714	3.225	325.9	557.3	0.921	5.528	-1.48	0.304	56.2	127.0	1.1	0.271
4-1380	4-2880	0.432	307.7	-14.5	1.47	1.307	104.8	0.718	3.238	324.5	557.7	0.914	5.562	-1.45	0.306	55.5	128.1	1.1	0.275
4-1380	4-2900	0.442	309.2	-14.4	1.41	1.308	105.4	0.721	3.252	323.0	558.0	0.908	5.597	-1.41	0.308	54.7	129.3	1.1	0.279
4-1380	4-2920	0.452	310.7	-14.3	1.36	1.308	106.1	0.724	3.267	321.4	558.3	0.901	5.632	-1.38	0.310	54.0	130.4	1.1	0.282
4-1380	4-2940	0.463	312.2	-14.1	1.31	1.309	106.8	0.728	3.281	319.9	558.6	0.893	5.668	-1.36	0.312	53.3	131.6	1.1	0.286
4-1380	4-2960	0.473	313.7	-14.0	1.26	1.309	107.4	0.731	3.295	318.4	558.8	0.886	5.705	-1.33	0.313	52.5	132.9	1.1	0.290
4-1380	4-2980	0.484	315.1	-13.8	1.21	1.310	108.1	0.735	3.310	316.8	559.1	0.878	5.742	-1.31	0.315	51.8	134.1	1.1	0.294
4-1390	4-1670	0.611	274.6	-23.9	-0.19	1.608	93.8	1.569-1.741		353.8	468.9	0.991	---	1.38	0.980	161.7	143.6	2.3	0.961
4-1390	4-1690	0.559	272.0	-24.1	-0.24	1.560	92.7	1.417-2.380		355.4	472.2	0.992	---	1.40	0.899	160.5	143.9	2.3	0.880

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1400	4-1960	0.364	235.9	-23.1	-0.92	1.323	80.5	0.754	3.918	22.1	152.1	---	---	1.69	0.373	136.5	142.7	3.1	0.348
4-1400	4-1980	0.361	235.1	-23.2	-0.99	1.318	80.4	0.742	3.731	22.6	154.4	---	---	1.74	0.356	134.1	142.0	3.2	0.329
4-1400	4-2000	0.358	234.5	-23.4	-1.06	1.314	80.3	0.731	3.584	23.0	156.5	---	---	1.78	0.341	131.5	141.2	3.4	0.313
4-1400	4-2020	0.355	234.0	-23.6	-1.14	1.311	80.3	0.722	3.466	23.2	158.5	---	---	1.84	0.328	128.9	140.3	3.5	0.297
4-1400	4-2040	0.352	233.7	-23.9	-1.22	1.308	80.3	0.714	3.371	23.4	160.4	---	---	1.90	0.316	126.3	139.4	3.7	0.284
4-1400	4-2060	0.349	233.5	-24.2	-1.31	1.305	80.3	0.708	3.294	23.4	162.2	---	---	1.96	0.305	123.5	138.3	3.9	0.271
4-1400	4-2080	0.347	233.4	-24.6	-1.40	1.303	80.4	0.702	3.231	23.4	163.9	---	---	2.04	0.296	120.8	137.2	4.1	0.260
4-1400	4-2100	0.345	233.5	-25.0	-1.51	1.301	80.5	0.697	3.178	23.3	165.6	---	---	2.12	0.288	118.1	136.0	4.3	0.250
4-1400	4-2120	0.342	233.6	-25.5	-1.62	1.299	80.6	0.692	3.135	23.1	167.2	---	---	2.21	0.281	115.3	134.8	4.5	0.241
4-1400	4-2140	0.340	233.9	-26.1	-1.74	1.298	80.7	0.689	3.100	22.8	168.7	---	---	2.31	0.275	112.6	133.5	4.7	0.234
4-1400	4-2160	0.337	234.3	-26.7	-1.88	1.296	80.9	0.685	3.071	22.5	170.1	---	---	2.42	0.271	109.9	132.1	5.0	0.227
4-1400	4-2180	0.335	234.7	-27.5	-2.03	1.295	81.1	0.683	3.047	22.1	171.5	---	---	2.55	0.267	107.2	130.8	5.3	0.221
4-1400	4-2200	0.333	235.3	-28.3	-2.19	1.295	81.3	0.680	3.028	21.6	172.8	---	---	2.69	0.263	104.6	129.4	5.5	0.216
4-1400	4-2220	0.331	235.9	-29.2	-2.38	1.294	81.5	0.678	3.013	21.1	174.1	---	---	2.86	0.261	102.1	128.1	5.8	0.212
4-1400	4-2240	0.329	236.6	-30.3	-2.59	1.293	81.8	0.676	3.001	20.5	175.3	---	---	3.04	0.259	99.6	126.8	6.2	0.209
4-1400	4-2260	0.327	237.4	-31.5	-2.83	1.293	82.0	0.675	2.992	19.9	176.5	---	---	3.26	0.258	97.2	125.5	6.5	0.206
4-1400	4-2280	0.325	238.2	-32.9	-3.11	1.293	82.3	0.674	2.985	19.2	177.6	---	---	3.52	0.257	94.9	124.3	6.9	0.205
4-1400	4-2300	0.324	239.1	-34.4	-3.44	1.293	82.6	0.672	2.981	18.5	178.7	---	---	3.83	0.257	92.7	123.2	7.4	0.203
4-1400	4-2320	0.323	240.0	-36.3	-3.83	1.292	82.9	0.672	2.979	17.7	179.7	---	---	4.20	0.257	90.6	122.2	7.9	0.203
4-1400	4-2340	0.323	240.9	-38.5	-4.31	1.292	83.2	0.671	2.978	16.9	180.7	---	4.977	4.66	0.257	88.5	121.2	8.5	0.203
4-1400	4-2360	0.324	241.8	-41.1	-4.90	1.293	83.6	0.671	2.979	16.0	181.7	---	4.977	5.23	0.258	86.6	120.4	9.3	0.203
4-1400	4-2380	0.327	242.7	-44.3	-5.67	1.293	83.9	0.670	2.982	15.2	182.6	---	4.980	5.98	0.259	84.7	119.6	10.2	0.204
4-1400	4-2400	0.332	243.2	-48.4	-6.68	1.293	84.3	0.670	2.985	14.2	183.5	---	4.986	6.97	0.260	82.9	119.0	11.4	0.206
4-1400	4-2420	0.343	243.3	-53.8	-8.11	1.293	84.7	0.670	2.990	13.3	184.4	---	4.994	8.38	0.262	81.2	118.6	13.1	0.209
4-1400	4-2440	0.363	242.0	-61.0	-10.26	1.293	85.1	0.670	2.996	12.3	185.2	---	5.004	10.50	0.263	79.6	118.3	15.4	0.214
4-1400	4-2460	0.406	235.6	-71.0	-13.84	1.294	85.4	0.671	3.002	11.4	186.0	---	5.016	14.06	0.265	78.1	118.3	19.1	0.223
4-1400	4-2480	0.510	184.2	-82.3	-20.94	1.294	85.8	0.671	3.010	10.4	186.8	---	5.029	21.15	0.267	76.6	119.0	25.3	0.243
4-1400	4-2500	0.837	101.6	-65.1	-40.24	1.294	86.2	0.671	3.018	9.6	187.6	---	5.044	40.43	0.269	75.2	122.0	34.6	0.318
4-1400	4-2520	1.443	118.6	83.5	76.71	1.295	87.2	0.672	3.027	6.9	188.2	---	5.059	-76.54	0.271	74.0	125.4	-29.5	0.478
4-1400	4-2540	0.681	264.1	57.6	31.32	1.295	87.4	0.672	3.036	6.5	189.0	---	5.078	-31.17	0.273	72.7	119.4	-25.7	0.284
4-1400	4-2560	0.465	266.5	37.1	18.19	1.295	87.8	0.673	3.046	5.5	189.6	---	5.097	-18.07	0.275	71.4	118.0	-16.8	0.243
4-1400	4-2580	0.387	268.2	24.0	12.70	1.296	88.2	0.674	3.056	4.4	190.3	---	5.117	-12.60	0.277	70.3	117.7	-11.5	0.232
4-1400	4-2600	0.351	270.0	15.1	9.73	1.296	88.7	0.675	3.067	3.2	190.9	---	5.138	-9.65	0.279	69.2	117.9	-8.3	0.230
4-1400	4-2620	0.333	271.9	8.9	7.88	1.297	89.2	0.676	3.079	2.0	191.6	---	5.161	-7.82	0.281	68.1	118.2	-6.2	0.230
4-1400	4-2640	0.322	274.0	4.2	6.62	1.297	89.7	0.677	3.090	0.8	192.2	---	5.184	-6.58	0.284	67.1	118.6	-4.8	0.231
4-1400	4-2660	0.316	276.2	0.7	5.70	1.298	90.2	0.679	3.102	359.5	552.7	0.997	5.208	-5.68	0.286	66.1	119.1	-3.7	0.233
4-1400	4-2680	0.313	278.4	-2.0	5.00	1.298	90.7	0.680	3.115	358.3	553.3	0.997	5.233	-5.00	0.288	65.2	119.7	-2.9	0.235
4-1400	4-2700	0.312	280.7	-4.2	4.45	1.299	91.2	0.681	3.127	357.0	553.8	0.996	5.258	-4.47	0.290	64.3	120.3	-2.3	0.238
4-1400	4-2720	0.311	283.0	-5.9	4.00	1.299	91.8	0.683	3.140	355.7	554.3	0.996	5.285	-4.05	0.292	63.5	121.0	-1.8	0.240
4-1400	4-2740	0.312	285.4	-7.3	3.63	1.300	92.3	0.684	3.153	354.3	554.8	0.995	5.312	-3.70	0.294	62.6	121.8	-1.4	0.243
4-1400	4-2760	0.314	287.8	-8.5	3.32	1.300	92.9	0.686	3.167	353.0	555.3	0.994	5.339	-3.41	0.296	61.8	122.6	-1.0	0.246
4-1400	4-2780	0.316	290.2	-9.4	3.06	1.301	93.4	0.688	3.180	351.6	555.8	0.993	5.368	-3.16	0.298	61.1	123.4	-0.8	0.249
4-1400	4-2800	0.319	292.5	-10.1	2.83	1.301	94.0	0.690	3.194	350.2	556.2	0.991	5.397	-2.96	0.300	60.3	124.3	-0.5	0.252
4-1400	4-2820	0.322	294.9	-10.7	2.62	1.302	94.6	0.692	3.208	348.8	556.6	0.989	5.426	-2.78	0.302	59.6	125.3	-0.3	0.255
4-1400	4-2840	0.327	297.2	-11.2	2.45	1.302	95.1	0.694	3.222	347.4	557.1	0.987	5.457	-2.62	0.304	58.9	126.3	-0.2	0.258
4-1400	4-2860	0.331	299.6	-11.5	2.29	1.303	95.7	0.696	3.236	346.0	557.5	0.985	5.488	-2.48	0.306	58.2	127.3	-0.0	0.261
4-1400	4-2880	0.336	301.8	-11.8	2.14	1.303	96.3	0.698	3.251	344.6	557.8	0.982	5.519	-2.36	0.308	57.5	128.4	0.1	0.264
4-1400	4-2900	0.342	304.1	-11.9	2.01	1.304	96.9	0.700	3.265	343.1	558.2	0.979	5.551	-2.25	0.310	56.9	129.4	0.2	0.267
4-1400	4-2920	0.348	306.3	-12.0	1.89	1.304	97.6	0.702	3.280	341.6	558.5	0.976	5.583	-2.16	0.312	56.2	130.6	0.3	0.270
4-1400	4-2940	0.354	308.4	-12.0	1.78	1.305	98.2	0.705	3.294	340.2	558.9	0.973	5.616	-2.07	0.314	55.6	131.7	0.3	0.273
4-1400	4-2960	0.361	310.5	-12.0	1.68	1.305	98.8	0.707	3.309	338.7	559.2	0.969	5.650	-1.99	0.315	55.0	132.9	0.4	0.276
4-1400	4-2980	0.368	312.6	-11.9	1.59	1.306	99.5	0.710	3.324	337.2	559.5	0.965	5.683	-1.92	0.317	54.4	134.1	0.4	0.280
4-1400	4-3000	0.376	314.6	-11.8	1.50	1.306	100.1	0.712	3.339	335.6	559.8	0.960	5.718	-1.86	0.319	53.8	135.4	0.5	0.283
4-1410	4-1670	0.644	263.7	-23.8	-0.18	1.627	82.3	1.636-1.550		12.5	107.7	---	---	1.31	1.016	162.1	144.0	2.2	0.996
4-1410	4-1690	0.596	260.3	-23.7	-0.22	1.572	81.4	1.462-2.122		14.4	111.3	---	---	1.31	0.927	161.0	144.3	2.2	0.908
4-1410	4-1710	0.557	257.0	-23.6	-0.25	1.528	80.7	1.325-3.004		16.3	115.0	---	---	1.32	0.849	159.9	144.5	2.2	0.832
4-1410	4-1730	0.527	253.7	-23.4	-0.29	1.491	80.0	1.215-4.514		18.3	118.6	---	---	1.33	0.781	158.6	144.6	2.3	0.765
4-1410	4-1750	0.503	250.6	-23.2	-0.33	1.460	79.3	1.127-7.641		20.2	122.2	---	---	1.33	0.721	157.2	144.8	2.3	0.705
4-1410	4-1770	0.485	247.7	-23.0	-0.37	1.434	78.7	1.05417.746		22.0	125.7	---	---	1.34	0.668	155.8	144.8	2.3	0.652
4-1410	4-1790	0.470	245.1	-22.7	-0.42	1.413	78.2	0.99590.878		23.7	129.1	---	---	1.35	0.620	154.2	144.8	2.4	0.605
4-1410	4-1810	0.458	242.6	-22.5	-0.46	1.394	77.7	0.94617.649		25.3	132.4	---	---	1.36	0.578	152.6	144.8	2.4	0.563
4-1410	4-1830	0.448	240.5	-22.2	-0.50	1.379	77.3	0.90510.024		26.7	135.6	---	---	1.38	0.540	150.8	144.7	2.5	0.524
4-1410	4-1850	0.440	238.6	-22.0	-0.55	1.365	77.0	0.871 7.348		28.0	138.6	---	---	1.39	0.505	149.0	144.5	2.5	0.490
4-1410	4-1870	0.434	236.9	-21.8	-0.59	1.354	76.7	0.843 5.994		29.2	141.5	---	---	1.41	0.475	147.0	144.2	2.6	0.459
4-1410	4-1890	0.429	235.5	-21.7	-0.64	1.344	76.4	0.819 5.183		30.3	144.3	---	---	1.43	0.447	145.0	143.9	2.7	0.430
4-1410	4-1910	0.424	234.3	-21.6	-0.69	1.336	76.2	0.799 4.647		31.2	146.9	---	---	1.45	0.422	142.8	143.5	2.7	0.404
4-1410	4-1930	0.420	233.3	-21.5	-0.74	1.329	76.0	0.781 4.271		31.9	149.4	---	---	1.47	0.399	140.5	143.0	2.8	0.381
4-1410	4-1950	0.416	232.4	-21.5	-0.79	1.323	75.9	0.767 3.993		32.6	151.8	---	---	1.49	0.379	138.2	142.4	2.9	0.360
4-1410	4-1970	0.413	231.8	-21.5	-0.84	1.318	75.9	0.754 3.783		33.1	154.0	---	---	1.52	0.361	135.7	141.7	3.0	0.340
4-1410	4-1990	0.410	231.2	-21.5	-0.89	1.313	75.8	0.743 3.620		33.4	156.2	---	---	1.55	0.345	133.2	140.9	3.1	0.323
4-1410	4-2010	0.407	230.8	-21.7	-0.95	1.309	75.8	0.734 3.491		33.7	158.2	---	---	1.58	0.330	130.5	140.1	3.3	0.307
4-1410	4-2030	0.404	230.6	-21.8	-1.01	1.306	75.8	0.726 3.387		33.9	160.1	---	---	1.62	0.318	127.9	139.1	3.4	0.292
4-1410	4-2050	0.401	230.4	-22.0	-1.08	1.303	75.9	0.719 3.303		34.0	162.0	---	---	1.66	0.306	125.1	138.1	3.5	0.279
4-1410	4-2070	0.398	230.4	-22.2	-1.14	1.301	76.0	0.713 3.235		33.9	163.7	---	---	1.70	0.296	122.4	137.0	3.7	0.267
4-1410	4-2090	0.395	230.4	-22.5	-1.21	1.298	76.1	0.708 3.179		33.8	165.4	---	---	1.74	0.288	119.6	135.8	3.8	0.257
4-1410	4-2110	0.391	230.6	-22.8	-1.29	1.297	76.2	0.703 3.133		33.6	166.9	---	---	1.79	0.280	116.8	134.6	4.0	0.248
4-1410	4-2130	0.388	230.8	-23.2	-1.37	1.295	76.4	0.699 3.095		33.3	168.4	---	---	1.85	0.274	114.0	133.3	4.2	0.240
4-1410	4-2150	0.385	231.1	-23.6	-1.45	1.294	76.6	0.695 3.064		33.0	169.9	---	---	1.91	0.269	111.2	132.0	4.3	0.232
4-1410	4-2170	0.382	231.6	-24.0	-1.54	1.293	76.8	0.692 3.039		32.6	171.2	---	---	1.98	0.265	108.5	130.7	4.5	0.226
4-1410	4-2190	0.378	232.0	-24.5	-1.64	1.292	77.0	0.689 3.019		32.1	172.6	---	---	2.05	0.261	105.8	129.3	4.7	0.221

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

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

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

DEPARTURE PLANET= EARTH
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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1420	4-2480	0.371	244.3	-32.7	-3.27	1.289	77.9	0.683	2.991	29.9	186.8	---	5.034	3.25	0.263	75.8	117.0	6.6	0.214
4-1420	4-2500	0.367	245.6	-34.1	-3.56	1.289	78.4	0.683	3.001	28.8	187.6	---	5.049	3.52	0.265	74.5	116.9	6.9	0.216
4-1420	4-2520	0.363	247.0	-35.6	-3.89	1.289	78.8	0.682	3.011	27.7	188.3	---	5.065	3.83	0.267	73.2	117.0	7.2	0.218
4-1420	4-2540	0.361	248.4	-37.4	-4.30	1.290	79.3	0.682	3.021	26.6	188.9	---	5.083	4.22	0.270	72.0	117.1	7.6	0.220
4-1420	4-2560	0.359	249.8	-39.5	-4.79	1.290	79.7	0.682	3.032	25.4	189.6	---	5.101	4.69	0.272	70.8	117.3	8.1	0.222
4-1420	4-2580	0.358	251.3	-42.1	-5.41	1.291	80.2	0.682	3.044	24.2	190.2	---	5.121	5.29	0.275	69.8	117.7	8.8	0.225
4-1420	4-2600	0.359	252.7	-45.3	-6.21	1.291	80.7	0.682	3.056	23.0	190.8	---	5.141	6.07	0.277	68.7	118.1	9.6	0.228
4-1420	4-2620	0.363	253.9	-49.3	-7.29	1.292	81.2	0.683	3.068	21.8	191.4	---	5.163	7.13	0.279	67.7	118.6	10.7	0.231
4-1420	4-2640	0.372	254.8	-54.7	-8.83	1.292	81.7	0.683	3.081	20.5	192.0	---	5.185	8.65	0.282	66.8	119.3	12.2	0.236
4-1420	4-2660	0.393	254.6	-62.2	-11.19	1.293	82.2	0.683	3.094	19.3	192.6	---	5.208	10.98	0.284	65.9	120.1	14.5	0.242
4-1420	4-2680	0.440	249.3	-72.9	-15.26	1.293	82.7	0.684	3.107	18.1	193.1	---	5.232	15.04	0.287	65.0	121.4	18.2	0.252
4-1420	4-2700	0.566	172.7	-83.9	-23.84	1.294	83.2	0.684	3.121	16.9	193.7	---	5.257	23.60	0.289	64.2	123.8	24.7	0.276
4-1420	4-2720	1.004	110.5	-58.8	-49.77	1.295	83.6	0.685	3.135	15.9	194.2	---	5.282	49.51	0.291	63.4	131.6	34.1	0.376
4-1420	4-2740	1.168	219.5	75.4	59.53	1.295	84.6	0.685	3.149	13.2	194.7	---	5.306	-59.81	0.293	62.8	132.7	-30.1	0.422
4-1420	4-2760	0.598	266.0	48.3	26.08	1.296	85.0	0.686	3.163	12.3	195.2	---	5.333	-26.38	0.296	62.0	125.5	-21.0	0.291
4-1420	4-2780	0.438	272.2	30.2	15.85	1.296	85.5	0.687	3.177	11.1	195.6	---	5.360	-16.18	0.298	61.3	124.6	-13.4	0.266
4-1420	4-2800	0.378	275.7	18.6	11.25	1.297	86.0	0.688	3.192	9.7	196.1	---	5.387	-11.59	0.300	60.6	125.0	-9.2	0.260
4-1420	4-2820	0.349	278.6	10.8	8.66	1.297	86.6	0.689	3.207	8.4	196.6	---	5.415	-9.03	0.302	60.0	125.7	-6.7	0.258
4-1420	4-2840	0.333	281.4	5.4	7.00	1.298	87.1	0.690	3.222	7.0	197.0	---	5.444	-7.39	0.304	59.4	126.6	-5.0	0.259
4-1420	4-2860	0.324	284.1	1.4	5.85	1.298	87.7	0.691	3.237	5.6	197.4	---	5.473	-6.26	0.306	58.8	127.6	-3.9	0.260
4-1420	4-2880	0.318	286.8	-1.5	5.01	1.299	88.3	0.692	3.252	4.2	197.8	---	5.502	-5.44	0.308	58.2	128.6	-3.0	0.262
4-1420	4-2900	0.314	289.5	-3.8	4.36	1.299	88.9	0.693	3.267	2.8	198.2	---	5.532	-4.81	0.310	57.6	129.6	-2.4	0.264
4-1420	4-2920	0.312	292.2	-5.5	3.84	1.300	89.4	0.695	3.282	1.4	198.6	---	5.562	-4.31	0.312	57.1	130.7	-1.9	0.267
4-1420	4-2940	0.311	295.0	-6.8	3.42	1.301	90.0	0.696	3.298	359.9	558.9	1.003	5.593	-3.92	0.314	56.6	131.9	-1.5	0.269
4-1420	4-2960	0.311	297.7	-7.8	3.08	1.301	90.6	0.697	3.313	358.4	559.3	1.003	5.624	-3.59	0.316	56.0	133.0	-1.2	0.271
4-1420	4-2980	0.312	300.4	-8.6	2.78	1.302	91.2	0.699	3.329	357.0	559.6	1.002	5.655	-3.32	0.318	55.5	134.2	-1.0	0.274
4-1420	4-3000	0.314	303.2	-9.1	2.53	1.302	91.9	0.701	3.344	355.5	559.9	1.001	5.687	-3.08	0.319	55.0	135.4	-0.8	0.276
4-1420	4-3020	0.316	305.8	-9.5	2.31	1.303	92.5	0.702	3.360	354.0	560.2	1.000	5.720	-2.89	0.321	54.5	136.7	-0.6	0.279
4-1430	4-1750	0.649	243.0	-21.8	-0.33	1.459	67.4	1.121-7.173		42.6	125.0	---	---	1.22	0.727	158.8	143.8	2.3	0.721
4-1430	4-1770	0.631	240.8	-21.5	-0.37	1.431	67.1	1.05116.807		44.6	128.8	---	---	1.22	0.670	157.3	143.7	2.3	0.665
4-1430	4-1790	0.617	239.0	-21.2	-0.40	1.408	66.8	0.99567.668		46.5	132.3	---	---	1.21	0.620	155.8	143.6	2.3	0.616
4-1430	4-1810	0.605	237.3	-21.0	-0.44	1.389	66.6	0.94916.622		48.2	135.7	---	---	1.21	0.575	154.2	143.4	2.4	0.572
4-1430	4-1830	0.596	235.9	-20.8	-0.47	1.373	66.4	0.912 9.500		49.7	138.9	---	---	1.21	0.535	152.5	143.2	2.4	0.533
4-1430	4-1850	0.587	234.7	-20.6	-0.51	1.359	66.2	0.881 6.993		51.0	142.0	---	---	1.21	0.499	150.6	142.9	2.4	0.497
4-1430	4-1870	0.581	233.6	-20.4	-0.55	1.347	66.1	0.856 5.724		52.1	144.8	---	---	1.21	0.466	148.6	142.5	2.5	0.465
4-1430	4-1890	0.574	232.8	-20.3	-0.58	1.337	66.0	0.834 4.964		53.1	147.5	---	---	1.21	0.437	146.5	142.0	2.6	0.436
4-1430	4-1910	0.569	232.1	-20.3	-0.62	1.329	66.0	0.816 4.462		53.9	150.1	---	---	1.22	0.411	144.3	141.5	2.6	0.410
4-1430	4-1930	0.564	231.5	-20.2	-0.66	1.321	66.0	0.801 4.110		54.6	152.4	---	---	1.22	0.388	142.0	140.8	2.7	0.386
4-1430	4-1950	0.559	231.1	-20.2	-0.70	1.315	66.0	0.788 3.851		55.1	154.7	---	---	1.23	0.367	139.5	140.1	2.8	0.365
4-1430	4-1970	0.554	230.8	-20.2	-0.73	1.310	66.1	0.777 3.655		55.4	156.8	---	---	1.23	0.348	137.0	139.3	2.8	0.345
4-1430	4-1990	0.550	230.5	-20.2	-0.77	1.305	66.1	0.767 3.504		55.7	158.8	---	---	1.24	0.331	134.3	138.4	2.9	0.328
4-1430	4-2010	0.545	230.4	-20.3	-0.81	1.301	66.3	0.759 3.385		55.8	160.7	---	---	1.25	0.316	131.5	137.5	3.0	0.312
4-1430	4-2030	0.541	230.4	-20.4	-0.85	1.298	66.4	0.752 3.289		55.8	162.4	---	---	1.26	0.303	128.7	136.5	3.1	0.298
4-1430	4-2050	0.536	230.4	-20.5	-0.89	1.295	66.5	0.745 3.213		55.7	164.1	---	---	1.27	0.292	125.8	135.4	3.2	0.285
4-1430	4-2070	0.532	230.5	-20.7	-0.94	1.293	66.7	0.740 3.150		55.5	165.7	---	---	1.29	0.282	122.8	134.2	3.3	0.274
4-1430	4-2090	0.527	230.7	-20.8	-0.98	1.291	66.9	0.735 3.100		55.3	167.2	---	---	1.30	0.274	119.8	133.0	3.4	0.264
4-1430	4-2110	0.522	230.9	-21.0	-1.02	1.289	67.2	0.730 3.059		54.9	168.7	---	---	1.32	0.266	116.8	131.8	3.5	0.255
4-1430	4-2130	0.518	231.2	-21.2	-1.07	1.288	67.4	0.726 3.025		54.5	170.0	---	---	1.34	0.260	113.8	130.5	3.6	0.247
4-1430	4-2150	0.513	231.5	-21.4	-1.11	1.287	67.7	0.723 2.998		54.1	171.3	---	---	1.36	0.255	110.9	129.2	3.7	0.240
4-1430	4-2170	0.508	231.9	-21.7	-1.16	1.286	67.9	0.720 2.977		53.5	172.6	---	---	1.38	0.251	107.9	128.0	3.8	0.234
4-1430	4-2190	0.502	232.4	-21.9	-1.21	1.285	68.2	0.717 2.960		52.9	173.8	---	---	1.41	0.248	105.1	126.7	3.9	0.229
4-1430	4-2210	0.497	232.9	-22.2	-1.27	1.284	68.5	0.714 2.947		52.3	174.9	---	---	1.44	0.246	102.3	125.5	4.0	0.225
4-1430	4-2230	0.492	233.4	-22.5	-1.32	1.284	68.9	0.712 2.937		51.6	176.0	---	---	1.47	0.244	99.6	124.3	4.1	0.222
4-1430	4-2250	0.486	234.0	-22.8	-1.38	1.284	69.2	0.709 2.930		50.8	177.1	---	---	1.50	0.243	97.0	123.2	4.2	0.219
4-1430	4-2270	0.481	234.6	-23.2	-1.44	1.284	69.6	0.707 2.926		50.0	178.1	---	---	1.54	0.243	94.6	122.1	4.3	0.217
4-1430	4-2290	0.475	235.3	-23.5	-1.50	1.283	69.9	0.705 2.924		49.2	179.1	---	---	1.58	0.243	92.2	121.2	4.4	0.215
4-1430	4-2310	0.470	236.0	-23.9	-1.57	1.283	70.3	0.704 2.924		48.4	180.0	---	4.981	1.62	0.244	89.9	120.3	4.5	0.214
4-1430	4-2330	0.464	236.8	-24.3	-1.64	1.284	70.7	0.702 2.925		47.5	180.9	---	4.979	1.67	0.245	87.8	119.5	4.6	0.213
4-1430	4-2350	0.458	237.6	-24.8	-1.71	1.284	71.1	0.701 2.928		46.5	181.8	---	4.980	1.72	0.246	85.7	118.8	4.7	0.213
4-1430	4-2370	0.453	238.5	-25.2	-1.79	1.284	71.5	0.699 2.933		45.6	182.7	---	4.984	1.78	0.248	83.8	118.1	4.8	0.213
4-1430	4-2390	0.447	239.4	-25.7	-1.88	1.284	71.9	0.698 2.938		44.6	183.5	---	4.990	1.84	0.249	82.0	117.6	4.8	0.214
4-1430	4-2410	0.441	240.3	-26.2	-1.97	1.284	72.3	0.697 2.945		43.5	184.3	---	4.998	1.91	0.251	80.3	117.2	4.9	0.214
4-1430	4-2430	0.435	241.3	-26.8	-2.07	1.285	72.7	0.696 2.952		42.5	185.1	---	5.008	1.99	0.253	78.7	116.9	5.0	0.215
4-1430	4-2450	0.429	242.4	-27.4	-2.18	1.285	73.2	0.695 2.961		41.4	185.8	---	5.019	2.08	0.256	77.1	116.7	5.1	0.216
4-1430	4-2470	0.423	243.5	-28.0	-2.30	1.286	73.6	0.694 2.970		40.3	186.5	---	5.032	2.18	0.258	75.7	116.5	5.2	0.218
4-1430	4-2490	0.418	244.6	-28.7	-2.43	1.286	74.1	0.694 2.980		39.2	187.3	---	5.047	2.29	0.261	74.3	116.5	5.4	0.219
4-1430	4-2510	0.412	245.8	-29.5	-2.58	1.286	74.5	0.693 2.990		38.1	187.9	---	5.063	2.41	0.263	73.0	116.5	5.5	0.221
4-1430	4-2530	0.406	247.0	-30.3	-2.74	1.287	75.0	0.692 3.001		36.9	188.6	---	5.080	2.55	0.266	71.8	116.7	5.6	0.223
4-1430	4-2550	0.401	248.3	-31.2	-2.92	1.287	75.5	0.692 3.013		35.7	189.3	---	5.098	2.71	0.268	70.6	116.9	5.8	0.225
4-1430	4-2570	0.396	249.7	-32.2	-3.13	1.288	76.0	0.692 3.025		34.5	189.9	---	5.117	2.90	0.271	69.6	117.2	6.0	0.227
4-1430	4-2590	0.391	251.1	-33.3	-3.37	1.288	76.5	0.691 3.038		33.3	190.5	---	5.137	3.12	0.273	68.5	117.6	6.2	0.229
4-1430	4-2610	0.386	252.6	-34.5	-3.65	1.289	77.0	0.691 3.050		32.1	191.1	---	5.158	3.38	0.276	67.6	118.0	6.4	0.231
4-1430	4-2630	0.382	254.1	-35.9	-3.98	1.290	77.5	0.691 3.064		30.8	191.7	---	5.180	3.69	0.279	66.6	118.5	6.7	0.233
4-1430	4-2650	0.378	255.7	-37.6	-4.37	1.290	78.0	0.691 3.077		29.6	192.2	---	5.202	4.07	0.281	65.7	119.1	7.1	0.236
4-1430	4-2670	0.375	257.3	-39.6	-4.86	1.291	78.5	0.691 3.091		28.3	192.8	---	5.225	4.53	0.284	64.9	119.7	7.6	0.238
4-1430	4-2690	0.373	259.0	-42.0	-5.47	1.291	79.0	0.691 3.105		27.0	193.3	---	5.249	5.13	0.286	64.1	120.4	8.1	0.241
4-1430	4-2710	0.373	260.7	-45.1	-6.27	1.292	79.5	0.691 3.119		25.7	193.8	---	5.274	5.90	0.289	63.3	121.2	8.9	0.244
4-1430	4-2730	0.376	262.4	-49.0	-7.35	1.292	80.1	0.691 3.134		24.4	194.4	---	5.299	6.97	0.291	62.6	122.1	9.9	0.247
4-1430	4-2750	0.384	263.9	-54.3	-8.91	1.293	80.6	0.691 3.149		23.1	194.8	---	5.324	8.50	0.293	61.9	123.1	11.3	0.251
4-1430	4-2770	0.405	264.7	-61.8	-11.33	1.293	81.1	0.691 3.163		21.7	195.3	---	5.351	10.91	0.296	61.3	124.3	13.6	0.257

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1430	4-279C	0.453	262.0	-72.9	-15.63	1.294	81.7	0.692	3.178	20.4	195.8	---	5.377	15.19	0.298	60.6	125.9	17.3	0.267
4-1430	4-281C	0.592	169.0	-85.4	-25.14	1.295	82.2	0.692	3.194	19.1	196.2	---	5.405	24.68	0.300	60.0	129.0	24.1	0.293
4-1430	4-283C	1.123	116.0	-55.0	-56.75	1.295	82.6	0.693	3.209	18.1	196.7	---	5.433	56.27	0.302	59.4	139.4	33.5	0.414
4-1430	4-285C	1.000	239.8	67.6	49.47	1.296	83.7	0.693	3.224	15.5	197.1	---	5.458	-49.97	0.305	58.9	136.0	-28.7	0.389
4-1430	4-287C	0.545	270.7	41.7	22.57	1.296	84.1	0.694	3.240	14.4	197.5	---	5.487	-23.09	0.307	58.3	130.2	-18.0	0.294
4-1430	4-289C	0.419	277.3	25.1	14.03	1.297	84.6	0.694	3.256	13.1	197.9	---	5.517	-14.57	0.309	57.8	129.9	-11.4	0.277
4-1430	4-291C	0.370	281.2	14.6	10.04	1.298	85.2	0.695	3.271	11.7	198.3	---	5.546	-10.60	0.311	57.3	130.6	-7.9	0.272
4-1430	4-293C	0.346	284.5	7.7	7.75	1.298	85.8	0.696	3.287	10.3	198.7	---	5.576	-8.33	0.313	56.8	131.5	-5.7	0.272
4-1430	4-295C	0.333	287.5	2.9	6.26	1.299	86.4	0.697	3.303	8.9	199.0	---	5.606	-6.86	0.315	56.3	132.6	-4.3	0.272
4-1430	4-297C	0.325	290.4	-0.6	5.22	1.299	87.0	0.698	3.319	7.4	199.4	---	5.636	-5.84	0.316	55.8	133.7	-3.4	0.274
4-1430	4-299C	0.319	293.3	-3.1	4.45	1.300	87.6	0.699	3.335	6.0	199.7	---	5.667	-5.08	0.318	55.4	134.9	-2.7	0.276
4-1430	4-301C	0.316	296.1	-5.0	3.85	1.300	88.2	0.700	3.351	4.5	200.1	---	5.698	-4.51	0.320	54.9	136.1	-2.1	0.277
4-1430	4-303C	0.314	299.0	-6.3	3.38	1.301	88.8	0.702	3.367	3.0	200.4	---	5.729	-4.05	0.322	54.5	137.3	-1.7	0.279
4-1440	4-178C	0.721	239.4	-21.2	-0.40	1.417	60.7	1.01842	.783	58.0	133.3	---	---	1.15	0.643	157.8	142.7	2.3	0.648
4-1440	4-180C	0.707	238.0	-20.9	-0.43	1.395	60.6	0.97126	.451	59.8	136.7	---	---	1.14	0.594	156.3	142.5	2.3	0.600
4-1440	4-182C	0.695	236.7	-20.8	-0.47	1.377	60.5	0.93311	.313	61.3	140.0	---	---	1.13	0.550	154.6	142.2	2.4	0.558
4-1440	4-184C	0.685	235.7	-20.6	-0.50	1.362	60.5	0.902	7.668	62.7	143.1	---	---	1.13	0.511	152.8	141.8	2.4	0.520
4-1440	4-186C	0.676	234.9	-20.5	-0.53	1.349	60.4	0.877	6.042	63.8	145.9	---	---	1.12	0.476	150.9	141.4	2.5	0.485
4-1440	4-188C	0.668	234.2	-20.4	-0.57	1.338	60.4	0.855	5.129	64.8	148.6	---	---	1.12	0.444	148.8	140.9	2.5	0.455
4-1440	4-190C	0.661	233.7	-20.3	-0.60	1.328	60.5	0.838	4.550	65.5	151.1	---	---	1.11	0.416	146.6	140.3	2.6	0.427
4-1440	4-192C	0.654	233.2	-20.3	-0.64	1.320	60.6	0.823	4.155	66.1	153.4	---	---	1.11	0.391	144.3	139.6	2.6	0.402
4-1440	4-194C	0.648	232.9	-20.3	-0.67	1.314	60.7	0.810	3.870	66.6	155.6	---	---	1.11	0.368	141.9	138.9	2.7	0.380
4-1440	4-196C	0.642	232.7	-20.3	-0.70	1.308	60.8	0.799	3.657	66.9	157.7	---	---	1.11	0.348	139.3	138.1	2.8	0.359
4-1440	4-198C	0.636	232.5	-20.4	-0.74	1.303	60.9	0.789	3.495	67.1	159.6	---	---	1.11	0.330	136.6	137.2	2.8	0.341
4-1440	4-200C	0.630	232.5	-20.4	-0.77	1.299	61.1	0.781	3.368	67.1	161.4	---	---	1.11	0.314	133.8	136.2	2.9	0.324
4-1440	4-202C	0.625	232.5	-20.5	-0.81	1.295	61.3	0.774	3.268	67.1	163.1	---	---	1.12	0.300	130.8	135.2	3.0	0.310
4-1440	4-204C	0.619	232.6	-20.6	-0.84	1.292	61.5	0.767	3.187	66.9	164.8	---	---	1.12	0.287	127.8	134.1	3.1	0.296
4-1440	4-206C	0.614	232.7	-20.7	-0.87	1.290	61.7	0.762	3.123	66.7	166.3	---	---	1.13	0.277	124.8	132.9	3.1	0.285
4-1440	4-208C	0.608	232.9	-20.8	-0.91	1.288	62.0	0.756	3.070	66.4	167.7	---	---	1.13	0.267	121.6	131.7	3.2	0.274
4-1440	4-210C	0.602	233.1	-21.0	-0.95	1.286	62.3	0.752	3.028	66.0	169.1	---	---	1.14	0.260	118.5	130.5	3.3	0.265
4-1440	4-212C	0.597	233.4	-21.1	-0.98	1.285	62.5	0.748	2.994	65.5	170.4	---	---	1.15	0.253	115.3	129.3	3.4	0.257
4-1440	4-214C	0.591	233.8	-21.3	-1.02	1.283	62.8	0.744	2.966	65.0	171.7	---	---	1.16	0.248	112.2	128.0	3.5	0.250
4-1440	4-216C	0.585	234.1	-21.5	-1.06	1.282	63.2	0.740	2.945	64.4	172.9	---	---	1.17	0.243	109.1	126.8	3.6	0.243
4-1440	4-218C	0.579	234.6	-21.7	-1.10	1.282	63.5	0.737	2.928	63.8	174.0	---	---	1.18	0.240	106.1	125.6	3.6	0.238
4-1440	4-220C	0.573	235.0	-21.9	-1.14	1.281	63.8	0.734	2.915	63.1	175.1	---	---	1.20	0.238	103.2	124.4	3.7	0.234
4-1440	4-222C	0.567	235.5	-22.1	-1.18	1.281	64.2	0.732	2.905	62.3	176.1	---	---	1.21	0.236	100.3	123.3	3.8	0.230
4-1440	4-224C	0.560	236.1	-22.4	-1.22	1.280	64.6	0.729	2.899	61.5	177.2	---	---	1.23	0.235	97.6	122.2	3.9	0.227
4-1440	4-226C	0.554	236.6	-22.6	-1.26	1.280	64.9	0.727	2.895	60.7	178.1	---	---	1.25	0.235	94.9	121.2	3.9	0.225
4-1440	4-228C	0.548	237.3	-22.9	-1.31	1.280	65.3	0.724	2.893	59.8	179.1	---	---	1.27	0.235	92.4	120.3	4.0	0.223
4-1440	4-230C	0.541	237.9	-23.2	-1.36	1.280	65.7	0.722	2.893	58.9	180.0	---	---	1.29	0.236	90.0	119.4	4.1	0.222
4-1440	4-232C	0.535	238.6	-23.5	-1.40	1.280	66.1	0.720	2.895	58.0	180.9	---	4.981	1.32	0.237	87.8	118.7	4.1	0.221
4-1440	4-234C	0.528	239.3	-23.8	-1.46	1.280	66.6	0.719	2.899	57.0	181.7	---	4.982	1.35	0.239	85.6	118.0	4.2	0.220
4-1440	4-236C	0.521	240.1	-24.1	-1.51	1.281	67.0	0.717	2.904	56.0	182.5	---	4.985	1.38	0.240	83.6	117.4	4.2	0.220
4-1440	4-238C	0.515	240.8	-24.4	-1.56	1.281	67.4	0.715	2.910	55.0	183.3	---	4.991	1.41	0.242	81.7	117.0	4.3	0.220
4-1440	4-240C	0.508	241.7	-24.8	-1.62	1.281	67.9	0.714	2.917	54.0	184.1	---	4.999	1.45	0.245	80.0	116.6	4.3	0.221
4-1440	4-242C	0.501	242.5	-25.1	-1.68	1.281	68.3	0.712	2.925	52.9	184.9	---	5.008	1.49	0.247	78.3	116.3	4.4	0.221
4-1440	4-244C	0.494	243.4	-25.5	-1.75	1.282	68.8	0.711	2.934	51.8	185.6	---	5.020	1.54	0.249	76.7	116.1	4.4	0.222
4-1440	4-246C	0.487	244.4	-25.9	-1.82	1.282	69.2	0.710	2.944	50.7	186.3	---	5.033	1.59	0.252	75.2	116.0	4.5	0.224
4-1440	4-248C	0.481	245.3	-26.3	-1.90	1.283	69.7	0.708	2.954	49.6	187.0	---	5.047	1.64	0.255	73.8	116.0	4.5	0.225
4-1440	4-250C	0.474	246.4	-26.8	-1.98	1.283	70.2	0.707	2.965	48.4	187.6	---	5.063	1.70	0.257	72.5	116.0	4.6	0.226
4-1440	4-252C	0.467	247.4	-27.2	-2.06	1.284	70.7	0.706	2.977	47.2	188.3	---	5.080	1.77	0.260	71.3	116.2	4.7	0.228
4-1440	4-254C	0.460	248.5	-27.7	-2.16	1.284	71.2	0.705	2.989	46.0	188.9	---	5.098	1.84	0.263	70.1	116.4	4.7	0.230
4-1440	4-256C	0.453	249.7	-28.3	-2.26	1.285	71.7	0.705	3.002	44.8	189.6	---	5.116	1.92	0.266	69.0	116.7	4.8	0.231
4-1440	4-258C	0.447	250.9	-28.8	-2.37	1.285	72.2	0.704	3.015	43.6	190.2	---	5.136	2.01	0.269	68.0	117.1	4.9	0.233
4-1440	4-260C	0.440	252.1	-29.4	-2.49	1.286	72.7	0.703	3.028	42.4	190.7	---	5.157	2.12	0.271	67.0	117.5	5.0	0.235
4-1440	4-262C	0.433	253.4	-30.1	-2.63	1.287	73.2	0.702	3.042	41.1	191.3	---	5.178	2.23	0.274	66.1	118.0	5.1	0.237
4-1440	4-264C	0.427	254.8	-30.8	-2.78	1.287	73.7	0.702	3.056	39.8	191.9	---	5.200	2.37	0.277	65.3	118.6	5.2	0.239
4-1440	4-266C	0.420	256.2	-31.6	-2.95	1.288	74.2	0.701	3.070	38.5	192.4	---	5.223	2.52	0.280	64.4	119.2	5.3	0.241
4-1440	4-268C	0.414	257.7	-32.5	-3.15	1.288	74.8	0.701	3.085	37.2	193.0	---	5.246	2.70	0.282	63.7	119.9	5.5	0.243
4-1440	4-270C	0.408	259.2	-33.5	-3.37	1.289	75.3	0.700	3.100	35.9	193.5	---	5.270	2.91	0.285	62.9	120.6	5.6	0.245
4-1440	4-272C	0.403	260.8	-34.6	-3.64	1.290	75.8	0.700	3.115	34.6	194.0	---	5.295	3.15	0.288	62.2	121.4	5.9	0.248
4-1440	4-274C	0.398	262.4	-35.8	-3.95	1.290	76.4	0.700	3.130	33.3	194.5	---	5.320	3.45	0.290	61.5	122.2	6.1	0.250
4-1440	4-276C	0.393	264.2	-37.3	-4.33	1.291	76.9	0.699	3.145	31.9	194.9	---	5.345	3.80	0.293	60.9	123.1	6.4	0.252
4-1440	4-278C	0.389	266.0	-39.1	-4.79	1.291	77.5	0.699	3.161	30.6	195.4	---	5.371	4.25	0.295	60.3	124.0	6.8	0.255
4-1440	4-280C	0.386	267.9	-41.3	-5.38	1.292	78.0	0.699	3.177	29.2	195.9	---	5.398	4.82	0.298	59.7	125.0	7.3	0.257
4-1440	4-282C	0.385	269.9	-44.1	-6.15	1.293	78.6	0.699	3.192	27.8	196.3	---	5.425	5.57	0.300	59.2	126.0	8.0	0.260
4-1440	4-284C	0.387	271.9	-47.8	-7.20	1.293	79.2	0.699	3.208	26.4	196.7	---	5.452	6.61	0.302	58.6	127.1	8.9	0.263
4-1440	4-286C	0.394	274.0	-52.8	-8.74	1.294	79.7	0.699	3.224	25.0	197.2	---	5.480	8.12	0.304	58.1	128.3	10.3	0.266
4-1440	4-288C	0.412	276.1	-60.2	-11.17	1.294	80.3	0.700	3.241	23.6	197.6	---	5.508	10.54	0.307	57.6	129.7	12.4	0.271
4-1440	4-290C	0.461	276.9	-71.7	-15.61	1.295	80.9	0.700	3.257	22.3	198.0	---	5.537	14.96	0.309	57.1	131.6	16.1	0.281
4-1440	4-292C	0.612	168.6	-87.4	-26.06	1.296	81.4	0.700	3.273	20.9	198.4	---	5.566	25.40	0.311	56.7	135.2	23.4	0.308
4-1440	4-294C	1.266	122.8	-50.7	-65.46	1.296	81.8	0.701	3.289	20.0	198.7	---	5.596	64.77	0.313	56.2	148.6	32.5	0.458
4-1440	4-296C	0.840	254.7	59.2	40.01	1.297	82.8	0.701	3.306	17.4	199.1	---	5.623	-40.71	0.315	55.8	139.8	-26.0	0.363
4-1440	4-298C	0.496	277.1	34.6	18.99	1.297	83.3	0.702	3.322	16.2	199.5	---	5.653	-19.70	0.317	55.4	135.9	-15.0	0.298
4-1440	4-300C	0.401	283.6	19.5	12.02	1.298	83.9	0.702	3.339	14.8	199.8	---	5.683	-12.76	0.319	55.0	136.1	-9.5	0.286
4-1440	4-302C	0.363	287.8	10.3	8.66	1.298	84.5	0.703	3.355	13.3	200.1	---	5.714	-9.41	0.320	54.6	137.0	-6.6	0.284
4-1440	4-304C	0.344	291.2	4.3	6.68	1.299	85.1	0.704	3.372	11.9	200.5	---	5.745	-7.45	0.322	54.2	138.1	-4.8	0.284
4-1450	4-179C	0.822	239.6	-21.1	-0.44	1.403	54.1	0.99284	.792	72.0	138.5	---	---	1.07	0.615	158.6	141.3	2.3	0.633
4-1450	4-181C	0.806	238.6	-21.0	-0.47	1.382	54.2	0.95514	.492	73.6	141.7	---	---	1.05	0.567	157.0	140.9	2.3	0.587
4-1450	4-183C	0.793	237.8	-20.9	-0.51	1.365	54.3	0.924	8.608	74.9	144.9	---	---	1.04	0.524	155.3	140.5	2.4	0.546

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1450	4-1850	0.781	237.1	-20.8	-0.54	1.351	54.4	0.899	6.439	76.0	147.6	---	---	1.03	0.486	153.5	140.1	2.4	0.509
4-1450	4-1870	0.771	236.6	-20.7	-0.57	1.338	54.5	0.879	5.322	76.9	150.2	---	---	1.02	0.452	151.5	139.5	2.5	0.476
4-1450	4-1890	0.762	236.1	-20.7	-0.60	1.328	54.6	0.862	4.647	77.6	152.6	---	---	1.01	0.421	149.3	138.9	2.5	0.447
4-1450	4-1910	0.753	235.8	-20.7	-0.63	1.320	54.8	0.847	4.200	78.1	154.9	---	---	1.00	0.394	147.0	138.2	2.6	0.421
4-1450	4-1930	0.745	235.6	-20.7	-0.67	1.312	55.0	0.835	3.885	78.5	157.0	---	---	1.00	0.369	144.6	137.4	2.6	0.397
4-1450	4-1950	0.737	235.5	-20.7	-0.70	1.306	55.2	0.824	3.654	78.7	158.9	---	---	0.99	0.347	142.0	136.6	2.7	0.375
4-1450	4-1970	0.730	235.4	-20.7	-0.73	1.301	55.4	0.815	3.480	78.8	160.7	---	---	0.99	0.327	139.3	135.7	2.7	0.356
4-1450	4-1990	0.723	235.4	-20.8	-0.76	1.296	55.7	0.806	3.345	78.7	162.5	---	---	0.98	0.310	136.4	134.7	2.8	0.339
4-1450	4-2010	0.716	235.5	-20.9	-0.79	1.293	55.9	0.799	3.239	78.6	164.1	---	---	0.98	0.295	133.4	133.7	2.9	0.323
4-1450	4-2030	0.709	235.6	-21.0	-0.82	1.289	56.2	0.793	3.155	78.4	165.6	---	---	0.98	0.281	130.3	132.6	2.9	0.310
4-1450	4-2050	0.702	235.8	-21.1	-0.85	1.287	56.5	0.787	3.088	78.0	167.0	---	---	0.98	0.270	127.1	131.4	3.0	0.297
4-1450	4-2070	0.696	236.0	-21.2	-0.88	1.284	56.8	0.782	3.034	77.6	168.4	---	---	0.98	0.260	123.9	130.2	3.1	0.286
4-1450	4-2090	0.689	236.3	-21.3	-0.91	1.283	57.1	0.777	2.991	77.2	169.7	---	---	0.98	0.251	120.5	129.1	3.1	0.277
4-1450	4-2110	0.682	236.6	-21.4	-0.94	1.281	57.5	0.773	2.956	76.6	170.9	---	---	0.98	0.244	117.2	127.8	3.2	0.268
4-1450	4-2130	0.675	236.9	-21.6	-0.97	1.280	57.8	0.769	2.928	76.0	172.1	---	---	0.98	0.238	113.8	126.6	3.3	0.261
4-1450	4-2150	0.668	237.3	-21.7	-1.00	1.279	58.2	0.765	2.907	75.4	173.2	---	---	0.99	0.234	110.5	125.4	3.3	0.254
4-1450	4-2170	0.661	237.7	-21.9	-1.03	1.278	58.6	0.761	2.890	74.6	174.3	---	---	0.99	0.230	107.3	124.3	3.4	0.249
4-1450	4-2190	0.655	238.2	-22.0	-1.06	1.277	59.0	0.758	2.877	73.9	175.4	---	---	1.00	0.228	104.1	123.2	3.5	0.244
4-1450	4-2210	0.648	238.7	-22.2	-1.10	1.277	59.4	0.755	2.868	73.1	176.4	---	---	1.00	0.226	101.0	122.1	3.5	0.240
4-1450	4-2230	0.640	239.2	-22.4	-1.13	1.277	59.8	0.752	2.862	72.3	177.3	---	---	1.01	0.225	98.1	121.1	3.6	0.237
4-1450	4-2250	0.633	239.7	-22.6	-1.16	1.277	60.2	0.750	2.858	71.4	178.2	---	---	1.02	0.225	95.3	120.1	3.6	0.235
4-1450	4-2270	0.626	240.3	-22.8	-1.19	1.276	60.6	0.747	2.857	70.5	179.1	---	---	1.03	0.225	92.6	119.3	3.7	0.233
4-1450	4-2290	0.619	240.9	-23.0	-1.23	1.277	61.0	0.745	2.858	69.5	180.0	---	---	1.04	0.226	90.0	118.5	3.7	0.231
4-1450	4-2310	0.611	241.5	-23.2	-1.27	1.277	61.5	0.742	2.860	68.5	180.8	---	4.983	1.06	0.228	87.6	117.8	3.8	0.230
4-1450	4-2330	0.604	242.2	-23.5	-1.30	1.277	61.9	0.740	2.864	67.5	181.6	---	4.984	1.07	0.229	85.4	117.1	3.8	0.229
4-1450	4-2350	0.597	242.9	-23.7	-1.34	1.277	62.4	0.738	2.870	66.5	182.4	---	4.987	1.09	0.231	83.2	116.6	3.8	0.229
4-1450	4-2370	0.589	243.6	-23.9	-1.38	1.277	62.9	0.736	2.876	65.5	183.2	---	4.993	1.10	0.234	81.2	116.2	3.9	0.229
4-1450	4-2390	0.582	244.3	-24.2	-1.42	1.278	63.3	0.734	2.884	64.4	183.9	---	5.001	1.12	0.236	79.4	115.9	3.9	0.229
4-1450	4-2410	0.574	245.1	-24.4	-1.46	1.278	63.8	0.732	2.893	63.3	184.6	---	5.010	1.15	0.239	77.6	115.6	3.9	0.230
4-1450	4-2430	0.566	245.9	-24.7	-1.50	1.279	64.3	0.730	2.902	62.2	185.4	---	5.022	1.17	0.242	76.0	115.4	4.0	0.230
4-1450	4-2450	0.559	246.7	-25.0	-1.55	1.279	64.8	0.728	2.913	61.0	186.0	---	5.035	1.19	0.245	74.5	115.4	4.0	0.231
4-1450	4-2470	0.551	247.6	-25.3	-1.60	1.280	65.3	0.727	2.924	59.9	186.7	---	5.049	1.22	0.248	73.0	115.4	4.0	0.232
4-1450	4-2490	0.543	248.5	-25.5	-1.65	1.280	65.8	0.725	2.936	58.7	187.3	---	5.065	1.25	0.251	71.7	115.5	4.0	0.234
4-1450	4-2510	0.536	249.4	-25.9	-1.70	1.281	66.3	0.724	2.948	57.5	188.0	---	5.081	1.29	0.254	70.5	115.6	4.1	0.235
4-1450	4-2530	0.528	250.3	-26.2	-1.76	1.281	66.8	0.722	2.961	56.3	188.6	---	5.099	1.32	0.257	69.3	115.9	4.1	0.237
4-1450	4-2550	0.520	251.3	-26.5	-1.81	1.282	67.3	0.721	2.974	55.1	189.2	---	5.118	1.36	0.260	68.2	116.2	4.1	0.238
4-1450	4-2570	0.512	252.3	-26.8	-1.88	1.282	67.8	0.720	2.987	53.8	189.8	---	5.138	1.41	0.263	67.2	116.6	4.2	0.240
4-1450	4-2590	0.505	253.4	-27.2	-1.94	1.283	68.3	0.719	3.001	52.6	190.4	---	5.158	1.46	0.266	66.2	117.0	4.2	0.241
4-1450	4-2610	0.497	254.5	-27.6	-2.02	1.284	68.9	0.717	3.016	51.3	190.9	---	5.179	1.51	0.269	65.3	117.5	4.2	0.243
4-1450	4-2630	0.489	255.6	-28.0	-2.09	1.284	69.4	0.716	3.030	50.0	191.5	---	5.201	1.57	0.272	64.4	118.1	4.3	0.245
4-1450	4-2650	0.482	256.8	-28.4	-2.18	1.285	69.9	0.715	3.045	48.7	192.0	---	5.224	1.64	0.275	63.6	118.7	4.3	0.247
4-1450	4-2670	0.474	258.1	-28.8	-2.27	1.286	70.5	0.714	3.061	47.4	192.5	---	5.247	1.71	0.278	62.9	119.4	4.4	0.249
4-1450	4-2690	0.467	259.3	-29.3	-2.37	1.286	71.0	0.713	3.076	46.1	193.1	---	5.270	1.79	0.281	62.1	120.1	4.4	0.250
4-1450	4-2710	0.459	260.7	-29.8	-2.48	1.287	71.6	0.713	3.092	44.8	193.6	---	5.294	1.89	0.284	61.5	120.9	4.5	0.252
4-1450	4-2730	0.452	262.0	-30.3	-2.60	1.287	72.1	0.712	3.107	43.4	194.0	---	5.319	1.99	0.286	60.8	121.7	4.6	0.254
4-1450	4-2750	0.445	263.5	-30.9	-2.74	1.288	72.7	0.711	3.123	42.1	194.5	---	5.344	2.12	0.289	60.2	122.6	4.7	0.256
4-1450	4-2770	0.438	264.9	-31.6	-2.90	1.289	73.2	0.710	3.139	40.7	195.0	---	5.370	2.26	0.292	59.6	123.5	4.8	0.258
4-1450	4-2790	0.431	266.5	-32.3	-3.07	1.289	73.8	0.710	3.156	39.3	195.4	---	5.396	2.42	0.294	59.1	124.4	4.9	0.260
4-1450	4-2810	0.424	268.1	-33.1	-3.28	1.290	74.4	0.709	3.172	37.9	195.9	---	5.422	2.61	0.297	58.6	125.4	5.0	0.262
4-1450	4-2830	0.418	269.8	-34.0	-3.52	1.291	74.9	0.709	3.189	36.6	196.3	---	5.449	2.83	0.299	58.0	126.4	5.2	0.264
4-1450	4-2850	0.412	271.5	-35.1	-3.80	1.291	75.5	0.709	3.205	35.2	196.8	---	5.476	3.10	0.302	57.6	127.4	5.4	0.266
4-1450	4-2870	0.406	273.4	-36.3	-4.15	1.292	76.1	0.708	3.222	33.8	197.2	---	5.504	3.43	0.304	57.1	128.5	5.7	0.268
4-1450	4-2890	0.401	275.3	-37.8	-4.58	1.293	76.7	0.708	3.239	32.3	197.6	---	5.532	3.84	0.306	56.7	129.6	6.0	0.270
4-1450	4-2910	0.398	277.4	-39.7	-5.12	1.293	77.2	0.708	3.255	30.9	198.0	---	5.560	4.37	0.308	56.2	130.7	6.4	0.272
4-1450	4-2930	0.395	279.6	-42.2	-5.83	1.294	77.8	0.708	3.272	29.5	198.3	---	5.588	5.07	0.310	55.8	131.9	7.0	0.274
4-1450	4-2950	0.395	281.9	-45.5	-6.82	1.294	78.4	0.708	3.289	28.1	198.7	---	5.617	6.04	0.313	55.4	133.2	7.9	0.277
4-1450	4-2970	0.400	284.6	-50.1	-8.27	1.295	79.0	0.708	3.306	26.6	199.1	---	5.646	7.47	0.315	55.0	134.5	9.1	0.280
4-1450	4-2990	0.416	287.6	-57.1	-10.62	1.296	79.6	0.708	3.323	25.2	199.4	---	5.675	9.80	0.317	54.7	136.0	11.0	0.284
4-1450	4-3010	0.461	291.3	-68.6	-15.04	1.296	80.2	0.708	3.340	23.8	199.8	---	5.705	14.21	0.318	54.3	138.0	14.6	0.292
4-1450	4-3030	0.619	290.1	-89.4	-26.22	1.297	80.7	0.708	3.357	22.4	200.1	---	5.735	25.37	0.320	53.9	141.9	22.2	0.319
4-1450	4-3050	1.426	130.9	-46.3	-75.79	1.297	81.1	0.709	3.374	21.5	200.4	---	5.767	74.93	0.322	53.6	158.8	30.8	0.505
4-1460	4-1800	0.930	241.2	-21.4	-0.50	1.389	47.4	0.97522.136		86.5	144.2	---	---	0.97	0.587	159.9	139.5	2.3	0.621
4-1460	4-1820	0.912	240.5	-21.3	-0.53	1.370	47.6	0.94710.129		87.7	147.1	---	---	0.95	0.540	158.3	139.1	2.3	0.577
4-1460	4-1840	0.897	240.0	-21.2	-0.56	1.354	47.9	0.923	7.003	88.7	149.8	---	---	0.94	0.498	156.5	138.6	2.4	0.537
4-1460	4-1860	0.884	239.6	-21.2	-0.59	1.340	48.1	0.904	5.578	89.5	152.3	---	---	0.92	0.461	154.6	138.0	2.4	0.502
4-1460	4-1880	0.871	239.3	-21.2	-0.63	1.329	48.4	0.888	4.771	90.0	154.5	---	---	0.91	0.427	152.5	137.3	2.5	0.471
4-1460	4-1900	0.860	239.1	-21.2	-0.66	1.319	48.7	0.874	4.257	90.4	156.7	---	---	0.90	0.397	150.3	136.6	2.5	0.442
4-1460	4-1920	0.850	239.0	-21.2	-0.68	1.311	49.0	0.862	3.905	90.6	158.6	---	---	0.88	0.370	147.9	135.8	2.6	0.417
4-1460	4-1940	0.840	238.9	-21.2	-0.71	1.304	49.3	0.852	3.652	90.7	160.4	---	---	0.87	0.346	145.3	134.9	2.6	0.394
4-1460	4-1960	0.831	238.9	-21.3	-0.74	1.299	49.6	0.843	3.463	90.7	162.1	---	---	0.86	0.325	142.6	134.0	2.7	0.374
4-1460	4-1980	0.822	239.0	-21.3	-0.77	1.294	49.9	0.835	3.319	90.5	163.7	---	---	0.86	0.306	139.7	133.0	2.7	0.356
4-1460	4-2000	0.813	239.1	-21.4	-0.80	1.290	50.3	0.828	3.207	90.3	165.2	---	---	0.85	0.289	136.6	132.0	2.8	0.340
4-1460	4-2020	0.805	239.3	-21.5	-0.82	1.286	50.6	0.822	3.119	89.9	166.6	---	---	0.84	0.274	133.4	130.9	2.8	0.325
4-1460	4-2040	0.797	239.5	-21.6	-0.85	1.284	51.0	0.816	3.050	89.5	168.0	---	---	0.84	0.261	130.1	129.8	2.9	0.312
4-1460	4-2060	0.789	239.8	-21.7	-0.88	1.281	51.4	0.810	2.994	89.0	169.2	---	---	0.83	0.250	126.6	128.6	3.0	0.301
4-1460	4-2080	0.781	240.1	-21.8	-0.90	1.279	51.8	0.806	2.949	88.4	170.4	---	---	0.83	0.241	123.1	127.4	3.0	0.291
4-1460	4-2100	0.773	240.4	-21.9	-0.93	1.278	52.2	0.801	2.914	87.8	171.6	---	---	0.82	0.233	119.5	126.3	3.1	0.282
4-1460	4-2120	0.765	240.8	-22.0	-0.95	1.276	52.6	0.797	2.886	87.1	172.7	---	---	0.82	0.227	115.9	125.1	3.1	0.274
4-1460	4-2140	0.757	241.2	-22.2	-0.98	1.275	53.0	0.793	2.864	86.3	173.7	---	---	0.82	0.222	112.3	124.0	3.2	0.268
4-1460	4-2160	0.749	241.6	-22.3	-1.00	1.274	53.4	0.789	2.847	85.6	174.7	---	---	0.82	0.218	108.7	122.9	3.2	0.262

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1700	4-2100	0.839	287.8	-19.7	1.96	1.425	125.2	0.99970	0.081	289.6	497.7	0.657	---	-0.80	0.630	158.8	168.1	0.3	0.644
4-1700	4-2120	0.808	287.4	-19.7	1.91	1.406	124.1	0.96318	0.098	290.3	500.1	0.668	---	-0.76	0.586	157.1	168.2	0.3	0.599
4-1700	4-2140	0.780	287.1	-19.7	1.86	1.390	123.2	0.932	9.936	290.9	502.5	0.678	---	-0.72	0.546	155.3	168.3	0.3	0.559
4-1700	4-2160	0.756	286.8	-19.7	1.82	1.376	122.3	0.905	7.194	291.4	504.8	0.687	---	-0.69	0.510	153.4	168.2	0.3	0.522
4-1700	4-2180	0.735	286.5	-19.7	1.79	1.364	121.6	0.881	5.828	291.9	507.1	0.695	---	-0.66	0.477	151.4	168.1	0.3	0.489
4-1700	4-2200	0.717	286.3	-19.7	1.75	1.354	121.0	0.860	5.017	292.3	509.3	0.701	---	-0.63	0.448	149.3	167.8	0.3	0.459
4-1700	4-2220	0.701	286.1	-19.8	1.72	1.345	120.4	0.842	4.484	292.6	511.4	0.707	---	-0.60	0.421	147.1	167.5	0.3	0.431
4-1700	4-2240	0.688	285.9	-19.8	1.69	1.338	120.0	0.827	4.110	292.9	513.5	0.712	---	-0.58	0.396	144.8	167.0	0.4	0.406
4-1700	4-2260	0.677	285.8	-19.8	1.66	1.331	119.6	0.813	3.835	293.1	515.5	0.716	---	-0.56	0.374	142.4	166.4	0.4	0.384
4-1700	4-2280	0.668	285.7	-19.8	1.64	1.326	119.2	0.802	3.627	293.2	517.4	0.719	---	-0.54	0.354	139.9	165.7	0.4	0.363
4-1700	4-2300	0.660	285.7	-19.8	1.61	1.321	119.0	0.792	3.466	293.3	519.3	0.721	---	-0.53	0.336	137.2	164.8	0.5	0.345
4-1700	4-2320	0.654	285.7	-19.8	1.59	1.317	118.8	0.784	3.338	293.3	521.1	0.722	---	-0.51	0.319	134.5	163.9	0.5	0.328
4-1700	4-2340	0.649	285.8	-19.8	1.57	1.313	118.7	0.776	3.235	293.2	522.8	0.723	---	-0.50	0.305	131.6	162.8	0.5	0.313
4-1700	4-2360	0.646	285.9	-19.9	1.55	1.310	118.6	0.771	3.152	293.1	524.5	0.723	---	-0.48	0.291	128.7	161.6	0.6	0.300
4-1700	4-2380	0.643	286.1	-19.9	1.53	1.307	118.5	0.766	3.084	292.8	526.1	0.723	---	-0.47	0.280	125.6	160.3	0.7	0.288
4-1700	4-2400	0.642	286.3	-19.9	1.51	1.305	118.6	0.762	3.028	292.6	527.6	0.722	---	-0.46	0.269	122.5	159.0	0.7	0.277
4-1700	4-2420	0.642	286.5	-19.9	1.50	1.303	118.6	0.759	2.982	292.2	529.1	0.720	---	-0.45	0.260	119.3	157.5	0.8	0.268
4-1700	4-2440	0.643	286.8	-19.9	1.48	1.301	118.7	0.756	2.945	291.8	530.5	0.718	---	-0.44	0.252	116.1	156.0	0.9	0.261
4-1700	4-2460	0.644	287.1	-19.9	1.46	1.300	118.9	0.755	2.914	291.3	531.9	0.715	---	-0.43	0.245	112.8	154.5	0.9	0.254
4-1700	4-2480	0.647	287.4	-19.9	1.45	1.299	119.1	0.754	2.888	290.8	533.2	0.711	---	-0.43	0.239	109.6	152.9	1.0	0.249
4-1700	4-2500	0.650	287.8	-19.9	1.43	1.298	119.3	0.753	2.868	290.2	534.4	0.707	---	-0.42	0.234	106.3	151.4	1.1	0.245
4-1700	4-2520	0.654	288.2	-19.9	1.42	1.297	119.5	0.754	2.851	289.6	535.6	0.703	---	-0.41	0.230	103.1	149.9	1.2	0.242
4-1700	4-2540	0.659	288.6	-19.9	1.40	1.296	119.8	0.754	2.838	288.9	536.7	0.698	---	-0.41	0.227	99.8	148.5	1.2	0.240
4-1700	4-2560	0.664	289.1	-19.9	1.39	1.296	120.2	0.755	2.828	288.1	537.8	0.692	---	-0.40	0.224	96.7	147.1	1.3	0.239
4-1700	4-2580	0.670	289.6	-19.9	1.38	1.296	120.5	0.757	2.821	287.3	538.9	0.686	---	-0.40	0.222	93.6	145.9	1.4	0.239
4-1700	4-2600	0.677	290.1	-19.9	1.36	1.295	120.9	0.759	2.815	286.5	539.8	0.680	---	-0.40	0.221	90.5	144.7	1.4	0.239
4-1700	4-2620	0.684	290.6	-19.9	1.35	1.295	121.3	0.761	2.812	285.6	540.8	0.673	4.952	-0.39	0.220	87.6	143.7	1.5	0.241
4-1700	4-2640	0.692	291.2	-19.9	1.34	1.295	121.8	0.763	2.811	284.6	541.6	0.665	4.957	-0.39	0.220	84.7	142.8	1.5	0.242
4-1700	4-2660	0.700	291.8	-19.8	1.32	1.295	122.2	0.766	2.812	283.6	542.5	0.657	4.966	-0.39	0.220	82.0	142.0	1.5	0.245
4-1700	4-2680	0.709	292.4	-19.8	1.31	1.295	122.7	0.769	2.814	282.6	543.3	0.649	4.978	-0.38	0.220	79.3	141.4	1.6	0.247
4-1700	4-2700	0.718	293.0	-19.8	1.30	1.295	123.3	0.773	2.817	281.5	544.0	0.640	4.993	-0.38	0.221	76.7	140.9	1.6	0.251
4-1700	4-2720	0.728	293.7	-19.7	1.29	1.296	123.8	0.776	2.821	280.4	544.7	0.631	5.011	-0.38	0.222	74.3	140.5	1.6	0.254
4-1700	4-2740	0.739	294.3	-19.7	1.27	1.296	124.4	0.780	2.826	279.2	545.4	0.622	5.031	-0.38	0.223	71.9	140.3	1.6	0.258
4-1700	4-2760	0.749	295.0	-19.6	1.26	1.296	125.0	0.784	2.833	278.0	546.0	0.611	5.054	-0.38	0.225	69.6	140.2	1.7	0.262
4-1700	4-2780	0.761	295.7	-19.6	1.25	1.296	125.6	0.788	2.840	276.7	546.6	0.601	5.079	-0.38	0.227	67.4	140.2	1.7	0.267
4-1700	4-2800	0.772	296.4	-19.5	1.24	1.297	126.3	0.793	2.848	275.5	547.1	0.590	5.105	-0.38	0.228	65.2	140.3	1.7	0.272
4-1700	4-2820	0.785	297.1	-19.5	1.23	1.297	126.9	0.797	2.856	274.1	547.6	0.579	5.134	-0.38	0.230	63.2	140.6	1.7	0.277
4-1700	4-2840	0.797	297.8	-19.4	1.21	1.298	127.6	0.802	2.866	272.8	548.1	0.567	5.164	-0.38	0.232	61.2	140.9	1.7	0.282
4-1700	4-2860	0.810	298.5	-19.3	1.20	1.298	128.3	0.807	2.875	271.4	548.6	0.555	5.196	-0.38	0.235	59.3	141.4	1.6	0.287
4-1700	4-2880	0.823	299.3	-19.2	1.19	1.299	129.1	0.812	2.886	270.0	549.0	0.543	5.229	-0.38	0.237	57.5	141.9	1.6	0.292
4-1700	4-2900	0.837	300.0	-19.1	1.18	1.299	129.8	0.817	2.897	268.5	549.3	0.530	5.264	-0.39	0.239	55.7	142.5	1.6	0.298
4-1700	4-2920	0.851	300.8	-19.1	1.16	1.300	130.6	0.822	2.908	267.0	549.7	0.517	5.300	-0.39	0.241	53.9	143.2	1.6	0.303
4-1700	4-2940	0.865	301.5	-19.0	1.15	1.300	131.4	0.828	2.920	265.5	550.0	0.504	5.337	-0.39	0.244	52.3	144.0	1.6	0.309
4-1700	4-2960	0.880	302.3	-18.9	1.14	1.301	132.2	0.833	2.932	264.0	550.2	0.490	5.375	-0.39	0.246	50.6	144.9	1.5	0.315
4-1700	4-2980	0.895	303.1	-18.7	1.13	1.301	133.1	0.838	2.945	262.4	550.5	0.476	5.414	-0.40	0.248	49.1	145.8	1.5	0.321
4-1700	4-3000	0.911	303.9	-18.6	1.11	1.302	133.9	0.844	2.958	260.8	550.7	0.462	5.454	-0.40	0.251	47.5	146.7	1.5	0.326
4-1700	4-3020	0.927	304.6	-18.5	1.10	1.302	134.8	0.850	2.971	259.2	550.8	0.447	5.495	-0.41	0.253	46.0	147.8	1.4	0.332
4-1700	4-3040	0.943	305.4	-18.4	1.09	1.303	135.7	0.855	2.985	257.5	551.0	0.432	5.537	-0.41	0.255	44.6	148.9	1.4	0.338
4-1700	4-3060	0.959	306.2	-18.3	1.07	1.304	136.6	0.861	2.999	255.8	551.1	0.417	5.580	-0.42	0.258	43.1	150.0	1.3	0.344
4-1700	4-3080	0.976	307.0	-18.1	1.06	1.304	137.5	0.866	3.013	254.1	551.2	0.402	5.624	-0.43	0.260	41.7	151.2	1.3	0.350
4-1700	4-3100	0.993	307.8	-18.0	1.04	1.305	138.5	0.872	3.027	252.4	551.3	0.387	5.668	-0.43	0.262	40.3	152.4	1.2	0.356
4-1700	4-3120	1.010	308.6	-17.8	1.03	1.305	139.4	0.878	3.042	250.7	551.3	0.372	5.713	-0.44	0.265	39.0	153.7	1.2	0.362
4-1700	4-3140	1.027	309.4	-17.7	1.01	1.306	140.4	0.884	3.057	248.9	551.3	0.356	5.758	-0.45	0.267	37.7	155.0	1.1	0.369
4-1700	4-3160	1.045	310.2	-17.5	0.99	1.307	141.4	0.889	3.072	247.1	551.3	0.340	5.804	-0.46	0.269	36.4	156.4	1.0	0.375
4-1700	4-3180	1.063	311.0	-17.4	0.97	1.307	142.4	0.895	3.087	245.2	551.2	0.325	5.850	-0.47	0.271	35.1	157.8	1.0	0.381
4-1700	4-3200	1.081	311.9	-17.2	0.96	1.308	143.5	0.900	3.103	243.4	551.2	0.309	5.897	-0.48	0.273	33.8	159.2	0.9	0.387
4-1700	4-3220	1.100	312.7	-17.0	0.94	1.309	144.5	0.906	3.119	241.5	551.1	0.293	5.944	-0.49	0.276	32.5	160.7	0.8	0.393
4-1700	4-3240	1.118	313.5	-16.8	0.92	1.309	145.6	0.911	3.135	239.7	550.9	0.278	5.992	-0.50	0.278	31.3	162.1	0.8	0.399
4-1700	4-3260	1.137	314.3	-16.7	0.90	1.310	146.6	0.917	3.151	237.7	550.8	0.262	6.039	-0.52	0.280	30.1	163.7	0.7	0.405
4-1700	4-3280	1.156	315.1	-16.5	0.87	1.310	147.7	0.922	3.167	235.8	550.6	0.247	6.087	-0.53	0.282	28.9	165.2	0.6	0.411
4-1700	4-3300	1.175	315.9	-16.3	0.85	1.311	148.8	0.927	3.183	233.9	550.4	0.231	6.135	-0.55	0.284	27.7	166.8	0.5	0.417
4-1710	4-2110	0.785	293.5	-17.1	2.91	1.427	121.7	1.00497	7.823	296.7	495.5	0.713	---	-1.84	0.635	158.0	169.8	-0.1	0.642
4-1710	4-2130	0.753	293.1	-17.3	2.74	1.408	120.7	0.96520	4.447	297.4	498.0	0.724	---	-1.69	0.591	156.3	170.0	-0.1	0.597
4-1710	4-2150	0.725	292.7	-17.4	2.61	1.392	119.7	0.93110	0.594	298.1	500.5	0.734	---	-1.56	0.552	154.5	170.1	-0.1	0.557
4-1710	4-2170	0.701	292.4	-17.5	2.49	1.378	118.9	0.901	7.526	298.7	502.8	0.742	---	-1.45	0.516	152.7	170.1	-0.1	0.520
4-1710	4-2190	0.680	292.0	-17.6	2.38	1.366	118.2	0.876	6.041	299.3	505.2	0.750	---	-1.36	0.484	150.7	170.0	-0.1	0.487
4-1710	4-2210	0.662	291.7	-17.7	2.29	1.356	117.5	0.854	5.171	299.7	507.5	0.756	---	-1.28	0.454	148.6	169.8	-0.1	0.457
4-1710	4-2230	0.646	291.5	-17.8	2.21	1.347	117.0	0.835	4.604	300.2	509.7	0.762	---	-1.20	0.428	146.4	169.5	-0.1	0.430
4-1710	4-2250	0.633	291.3	-17.9	2.14	1.339	116.5	0.818	4.209	300.5	511.8	0.767	---	-1.14	0.404	144.1	169.0	-0.1	0.404
4-1710	4-2270	0.621	291.1	-18.0	2.07	1.333	116.1	0.803	3.920	300.8	513.9	0.771	---	-1.09	0.382	141.8	168.5	-0.1	0.382
4-1710	4-2290	0.612	291.0	-18.1	2.01	1.327	115.7	0.791	3.701	301.0	515.9	0.774	---	-1.04	0.362	139.3	167.9	-0.0	0.361
4-1710	4-2310	0.604	291.0	-18.1	1.96	1.322	115.5	0.780	3.532	301.1	517.8	0.776	---	-0.99	0.344	136.7	167.1	0.0	0.342
4-1710	4-2330	0.597	291.0	-18.2	1.91	1.318	115.3	0.771	3.398	301.2	519.7	0.778	---	-0.95	0.328	134.0	166.2	0.0	0.325
4-1710	4-2350	0.592	291.0	-18.3	1.86	1.314	115.1	0.763	3.291	301.1	521.5	0.779	---	-0.92	0.313	131.2	165.2	0.1	0.310
4-1710	4-2370	0.588	291.1	-18.3	1.82	1.311	115.0	0.757	3.204	301.1	523.2	0.779	---	-0.88	0.300	128.4	164.1	0.1	0.296
4-1710	4-2390	0.585	291.2	-18.4	1.78	1.308	114.9	0.751	3.133	300.9	524.9	0.779	---	-0.85	0.289	125.5	162.8	0.2	0.284
4-1710	4-2410	0.584	291.4	-18.4	1.74	1.306	114.9	0.747	3.074	300.7	526.5	0.779	---	-0.83	0.278	122.5	161.5	0.3	0.273
4-1710	4-2430	0.583	291.6	-18.5	1.70	1.304	115.0	0.743	3.026	300.4	528.0	0.777	---	-0.80	0.269	119.4	160.1	0.3	0.264
4-1710	4-2450	0.583	291.9	-18.5	1.67	1.302	115.1	0.740	2.986	300.0	529.5	0.776	---	-0.78	0.261	116.3	158.6	0.4	0.256
4-1710	4-2470	0.584	292.2	-18.5	1.64	1.301	115.2	0.738	2.954	299.6	530.9	0.773	---	-0.76	0.254	113.2	157.1	0.5	0.249

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1710	4-2490	0.586	292.5	-18.6	1.61	1.300	115.3	0.737	2.927	299.2	532.3	0.771	---	-0.74	0.249	110.1	155.6	0.6	0.244
4-1710	4-2510	0.589	292.9	-18.6	1.58	1.299	115.5	0.736	2.905	298.6	533.6	0.767	---	-0.72	0.244	107.0	154.1	0.6	0.239
4-1710	4-2530	0.592	293.3	-18.6	1.55	1.298	115.8	0.736	2.887	298.0	534.8	0.764	---	-0.71	0.239	104.0	152.6	0.7	0.236
4-1710	4-2550	0.596	293.8	-18.6	1.52	1.297	116.0	0.736	2.873	297.4	536.0	0.759	---	-0.69	0.236	100.9	151.1	0.8	0.233
4-1710	4-2570	0.601	294.3	-18.6	1.50	1.297	116.3	0.736	2.862	296.7	537.1	0.755	---	-0.68	0.233	98.0	149.7	0.9	0.232
4-1710	4-2590	0.606	294.8	-18.6	1.47	1.296	116.6	0.737	2.854	295.9	538.2	0.750	---	-0.67	0.231	95.0	148.4	0.9	0.231
4-1710	4-2610	0.612	295.3	-18.6	1.45	1.296	117.0	0.739	2.848	295.1	539.2	0.744	---	-0.66	0.230	92.2	147.2	1.0	0.231
4-1710	4-2630	0.618	295.9	-18.6	1.43	1.296	117.4	0.741	2.844	294.3	540.2	0.738	4.951	-0.65	0.229	89.4	146.1	1.1	0.231
4-1710	4-2650	0.625	296.4	-18.6	1.41	1.296	117.8	0.743	2.843	293.4	541.1	0.732	4.954	-0.64	0.228	86.7	145.1	1.1	0.233
4-1710	4-2670	0.633	297.1	-18.6	1.38	1.296	118.2	0.745	2.842	292.4	542.0	0.725	4.960	-0.63	0.228	84.1	144.3	1.2	0.234
4-1710	4-2690	0.641	297.7	-18.5	1.36	1.296	118.7	0.748	2.844	291.4	542.9	0.717	4.970	-0.63	0.229	81.6	143.6	1.2	0.237
4-1710	4-2710	0.649	298.3	-18.5	1.34	1.296	119.1	0.751	2.846	290.4	543.7	0.710	4.983	-0.62	0.229	79.2	143.0	1.3	0.239
4-1710	4-2730	0.658	299.0	-18.5	1.32	1.296	119.7	0.754	2.850	289.3	544.4	0.702	4.999	-0.61	0.230	76.8	142.5	1.3	0.243
4-1710	4-2750	0.668	299.7	-18.4	1.30	1.296	120.2	0.757	2.855	288.2	545.2	0.693	5.017	-0.61	0.231	74.5	142.2	1.3	0.246
4-1710	4-2770	0.677	300.4	-18.4	1.28	1.297	120.7	0.761	2.861	287.1	545.8	0.684	5.037	-0.60	0.232	72.4	142.0	1.4	0.250
4-1710	4-2790	0.688	301.1	-18.3	1.26	1.297	121.3	0.765	2.867	285.9	546.5	0.675	5.060	-0.60	0.234	70.3	141.9	1.4	0.254
4-1710	4-2810	0.698	301.8	-18.2	1.24	1.297	121.9	0.769	2.875	284.7	547.1	0.665	5.085	-0.60	0.235	68.2	142.0	1.4	0.258
4-1710	4-2830	0.710	302.5	-18.2	1.22	1.298	122.5	0.773	2.883	283.4	547.6	0.655	5.111	-0.60	0.237	66.3	142.1	1.4	0.263
4-1710	4-2850	0.721	303.2	-18.1	1.20	1.298	123.2	0.777	2.892	282.1	548.2	0.644	5.140	-0.59	0.239	64.4	142.4	1.4	0.267
4-1710	4-2870	0.733	304.0	-18.0	1.18	1.299	123.8	0.782	2.902	280.8	548.7	0.634	5.170	-0.59	0.241	62.6	142.8	1.4	0.272
4-1710	4-2890	0.745	304.7	-17.9	1.17	1.299	124.5	0.786	2.912	279.4	549.1	0.622	5.201	-0.59	0.243	60.8	143.2	1.4	0.277
4-1710	4-2910	0.758	305.5	-17.8	1.15	1.300	125.2	0.791	2.922	278.0	549.6	0.611	5.234	-0.59	0.245	59.1	143.7	1.4	0.282
4-1710	4-2930	0.771	306.3	-17.7	1.13	1.300	125.9	0.796	2.933	276.6	550.0	0.599	5.268	-0.59	0.247	57.5	144.4	1.4	0.287
4-1710	4-2950	0.784	307.0	-17.6	1.11	1.301	126.7	0.801	2.945	275.2	550.3	0.586	5.303	-0.60	0.249	55.9	145.1	1.3	0.293
4-1710	4-2970	0.798	307.8	-17.5	1.09	1.301	127.4	0.806	2.956	273.7	550.7	0.574	5.339	-0.60	0.251	54.4	145.8	1.3	0.298
4-1710	4-2990	0.812	308.6	-17.3	1.07	1.302	128.2	0.811	2.969	272.2	551.0	0.560	5.377	-0.60	0.253	52.9	146.7	1.3	0.303
4-1710	4-3010	0.826	309.4	-17.2	1.05	1.302	129.0	0.816	2.981	270.6	551.2	0.547	5.415	-0.60	0.256	51.4	147.6	1.3	0.309
4-1710	4-3030	0.841	310.2	-17.1	1.03	1.303	129.8	0.822	2.994	269.1	551.5	0.533	5.455	-0.61	0.258	50.0	148.5	1.2	0.314
4-1710	4-3050	0.856	310.9	-16.9	1.01	1.303	130.6	0.827	3.007	267.5	551.7	0.519	5.495	-0.61	0.260	48.6	149.6	1.2	0.320
4-1710	4-3070	0.871	311.7	-16.8	0.99	1.304	131.5	0.833	3.021	265.9	551.9	0.505	5.536	-0.62	0.262	47.2	150.6	1.1	0.325
4-1710	4-3090	0.887	312.5	-16.6	0.97	1.304	132.3	0.838	3.035	264.3	552.0	0.491	5.578	-0.62	0.264	45.9	151.7	1.1	0.331
4-1710	4-3110	0.903	313.3	-16.5	0.95	1.305	133.2	0.844	3.049	262.6	552.2	0.476	5.621	-0.63	0.266	44.6	152.9	1.0	0.337
4-1710	4-3130	0.919	314.1	-16.3	0.93	1.306	134.1	0.849	3.063	260.9	552.3	0.461	5.665	-0.64	0.268	43.3	154.1	1.0	0.342
4-1710	4-3150	0.935	314.9	-16.1	0.91	1.306	135.0	0.855	3.077	259.2	552.3	0.446	5.709	-0.65	0.271	42.0	155.4	0.9	0.348
4-1710	4-3170	0.952	315.7	-16.0	0.89	1.307	135.9	0.861	3.092	257.5	552.4	0.430	5.753	-0.65	0.273	40.8	156.7	0.9	0.354
4-1710	4-3190	0.969	316.5	-15.8	0.86	1.307	136.9	0.866	3.107	255.7	552.4	0.415	5.799	-0.66	0.275	39.5	158.0	0.8	0.359
4-1710	4-3210	0.986	317.3	-15.6	0.84	1.308	137.8	0.872	3.122	254.0	552.4	0.399	5.845	-0.67	0.277	38.3	159.4	0.8	0.365
4-1710	4-3230	1.004	318.1	-15.4	0.82	1.309	138.8	0.878	3.137	252.2	552.4	0.384	5.891	-0.69	0.279	37.1	160.7	0.7	0.371
4-1710	4-3250	1.021	318.9	-15.2	0.79	1.309	139.8	0.883	3.153	250.4	552.4	0.368	5.938	-0.70	0.281	35.9	162.2	0.6	0.377
4-1710	4-3270	1.039	319.7	-15.0	0.77	1.310	140.8	0.889	3.168	248.5	552.3	0.352	5.985	-0.71	0.283	34.8	163.6	0.6	0.382
4-1710	4-3290	1.057	320.6	-14.8	0.74	1.310	141.8	0.895	3.184	246.7	552.2	0.336	6.032	-0.73	0.284	33.6	165.1	0.5	0.388
4-1710	4-3310	1.076	321.4	-14.6	0.71	1.311	142.9	0.900	3.200	244.8	552.1	0.320	6.080	-0.75	0.286	32.5	166.6	0.4	0.394
4-1720	4-2120	0.734	298.1	-10.9	5.73	1.427	118.1	1.00709.643		304.0	493.5	0.768	---	-4.76	0.638	157.2	171.3	-1.4	0.639
4-1720	4-2140	0.701	297.7	-11.9	4.98	1.408	117.1	0.96522.346		304.8	496.1	0.778	---	-4.02	0.595	155.5	171.5	-1.2	0.594
4-1720	4-2160	0.672	297.2	-12.7	4.43	1.392	116.2	0.92911.095		305.5	498.6	0.787	---	-3.48	0.556	153.8	171.7	-1.1	0.554
4-1720	4-2180	0.647	296.9	-13.3	4.01	1.378	115.3	0.898	7.780	306.2	501.1	0.795	---	-3.07	0.520	151.9	171.7	-1.0	0.518
4-1720	4-2200	0.626	296.5	-13.8	3.67	1.366	114.6	0.871	6.205	306.8	503.5	0.802	---	-2.75	0.488	149.9	171.7	-0.9	0.485
4-1720	4-2220	0.608	296.2	-14.2	3.40	1.356	114.0	0.847	5.292	307.4	505.9	0.809	---	-2.49	0.459	147.9	171.5	-0.9	0.454
4-1720	4-2240	0.592	295.9	-14.6	3.18	1.347	113.4	0.827	4.700	307.9	508.2	0.814	---	-2.28	0.433	145.7	171.2	-0.8	0.427
4-1720	4-2260	0.578	295.7	-14.9	2.98	1.340	112.9	0.809	4.289	308.3	510.4	0.818	---	-2.10	0.409	143.4	170.9	-0.8	0.402
4-1720	4-2280	0.567	295.5	-15.1	2.82	1.333	112.5	0.794	3.989	308.6	512.5	0.822	---	-1.95	0.388	141.1	170.4	-0.7	0.379
4-1720	4-2300	0.557	295.3	-15.4	2.68	1.328	112.2	0.781	3.763	308.9	514.6	0.825	---	-1.82	0.368	138.6	169.8	-0.7	0.358
4-1720	4-2320	0.549	295.2	-15.6	2.56	1.323	111.9	0.769	3.587	309.1	516.6	0.828	---	-1.71	0.351	136.1	169.1	-0.6	0.339
4-1720	4-2340	0.542	295.2	-15.8	2.45	1.318	111.7	0.759	3.449	309.2	518.5	0.830	---	-1.61	0.335	133.5	168.2	-0.6	0.322
4-1720	4-2360	0.537	295.2	-16.0	2.35	1.315	111.5	0.751	3.338	309.2	520.4	0.831	---	-1.53	0.320	130.8	167.3	-0.5	0.307
4-1720	4-2380	0.532	295.3	-16.1	2.26	1.312	111.4	0.744	3.248	309.2	522.2	0.831	---	-1.45	0.308	128.0	166.2	-0.5	0.293
4-1720	4-2400	0.529	295.4	-16.3	2.18	1.309	111.3	0.738	3.175	309.1	523.9	0.832	---	-1.38	0.296	125.2	165.0	-0.4	0.281
4-1720	4-2420	0.527	295.6	-16.4	2.10	1.307	111.3	0.733	3.114	308.9	525.5	0.831	---	-1.32	0.286	122.3	163.7	-0.3	0.270
4-1720	4-2440	0.526	295.8	-16.5	2.03	1.305	111.4	0.729	3.065	308.7	527.1	0.830	---	-1.27	0.277	119.4	162.4	-0.3	0.260
4-1720	4-2460	0.526	296.1	-16.7	1.97	1.303	111.4	0.726	3.024	308.4	528.6	0.829	---	-1.22	0.269	116.4	161.0	-0.2	0.252
4-1720	4-2480	0.526	296.4	-16.7	1.91	1.301	111.5	0.723	2.990	308.0	530.1	0.827	---	-1.18	0.262	113.4	159.5	-0.1	0.245
4-1720	4-2500	0.528	296.8	-16.8	1.86	1.300	111.7	0.721	2.962	307.6	531.5	0.825	---	-1.14	0.257	110.5	158.0	0.0	0.239
4-1720	4-2520	0.530	297.2	-16.9	1.81	1.299	111.8	0.720	2.939	307.1	532.8	0.822	---	-1.10	0.252	107.5	156.5	0.1	0.234
4-1720	4-2540	0.533	297.6	-17.0	1.76	1.298	112.0	0.719	2.920	306.5	534.1	0.819	---	-1.07	0.248	104.6	155.0	0.2	0.230
4-1720	4-2560	0.536	298.1	-17.0	1.72	1.298	112.3	0.719	2.905	305.9	535.3	0.816	---	-1.04	0.244	101.7	153.5	0.3	0.227
4-1720	4-2580	0.540	298.6	-17.1	1.67	1.297	112.5	0.719	2.894	305.3	536.5	0.812	---	-1.01	0.242	98.9	152.1	0.4	0.225
4-1720	4-2600	0.545	299.2	-17.1	1.63	1.297	112.8	0.720	2.885	304.6	537.6	0.808	---	-0.99	0.239	96.1	150.7	0.4	0.224
4-1720	4-2620	0.550	299.7	-17.1	1.59	1.296	113.2	0.721	2.879	303.8	538.7	0.803	---	-0.96	0.238	93.4	149.5	0.5	0.223
4-1720	4-2640	0.556	300.3	-17.1	1.56	1.296	113.5	0.722	2.874	303.0	539.7	0.798	---	-0.94	0.237	90.8	148.3	0.6	0.223
4-1720	4-2660	0.562	301.0	-17.1	1.52	1.296	113.9	0.724	2.872	302.1	540.7	0.792	4.952	-0.92	0.236	88.2	147.3	0.7	0.224
4-1720	4-2680	0.569	301.6	-17.1	1.49	1.296	114.3	0.726	2.871	301.2	541.6	0.786	4.956	-0.91	0.236	85.8	146.4	0.8	0.226
4-1720	4-2700	0.576	302.3	-17.1	1.46	1.296	114.7	0.728	2.872	300.3	542.5	0.780	4.964	-0.89	0.236	83.4	145.6	0.8	0.228
4-1720	4-2720	0.583	303.0	-17.1	1.42	1.296	115.2	0.731	2.875	299.3	543.3	0.774	4.976	-0.88	0.236	81.1	145.0	0.9	0.230
4-1720	4-2740	0.591	303.7	-17.0	1.39	1.296	115.6	0.734	2.878	298.3	544.1	0.766	4.989	-0.86	0.237	78.8	144.4	0.9	0.233
4-1720	4-2760	0.600	304.4	-17.0	1.36	1.297	116.1	0.737	2.882	297.2	544.9	0.759	5.006	-0.85	0.238	76.7	144.0	1.0	0.236
4-1720	4-2780	0.609	305.1	-16.9	1.33	1.297	116.6	0.740	2.888	296.1	545.6	0.751	5.025	-0.84	0.239	74.6	143.8	1.0	0.239
4-1720	4-2800	0.618	305.9	-16.9	1.31	1.297	117.2	0.743	2.894	295.0	546.3	0.743	5.045	-0.83	0.241	72.6	143.6	1.0	0.243
4-1720	4-2820	0.628	306.6	-16.8	1.28	1.297	117.7	0.747	2.901	293.8	547.0	0.735	5.068	-0.82	0.242	70.7	143.6	1.1	0.246
4-1720	4-2840	0.638	307.4	-16.7	1.25	1.298	118.3	0.751	2.909	292.6	547.6	0.726	5.093	-0.82	0.243	68.9	143.7	1.1	0.251
4-1720	4-2860	0.649	308.2	-16.6	1.22	1.298	118.9	0.755	2.918	291.3	548.2	0.716	5.120	-0.81	0.245	67.1	143.9	1.1	0.255

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1720	4-2880	0.660	308.9	-16.5	1.20	1.299	119.5	0.759	2.927	290.0	548.7	0.707	5.148	-0.80	0.247	65.3	144.1	1.1	0.259
4-1720	4-2900	0.671	309.7	-16.4	1.17	1.299	120.1	0.763	2.937	288.7	549.2	0.697	5.177	-0.80	0.249	63.7	144.5	1.1	0.264
4-1720	4-2920	0.683	310.5	-16.3	1.15	1.300	120.8	0.767	2.947	287.4	549.7	0.686	5.208	-0.80	0.251	62.1	145.0	1.1	0.268
4-1720	4-2940	0.695	311.3	-16.2	1.12	1.300	121.4	0.772	2.958	286.0	550.2	0.675	5.240	-0.79	0.253	60.5	145.5	1.1	0.273
4-1720	4-2960	0.707	312.1	-16.1	1.10	1.300	122.1	0.776	2.969	284.6	550.6	0.664	5.274	-0.79	0.254	59.0	146.2	1.1	0.278
4-1720	4-2980	0.719	312.9	-15.9	1.07	1.301	122.8	0.781	2.981	283.2	551.0	0.653	5.308	-0.79	0.256	57.5	146.9	1.1	0.283
4-1720	4-3000	0.732	313.7	-15.8	1.05	1.301	123.5	0.786	2.992	281.8	551.3	0.641	5.344	-0.79	0.258	56.1	147.6	1.1	0.288
4-1720	4-3020	0.746	314.5	-15.6	1.02	1.302	124.3	0.791	3.005	280.3	551.7	0.629	5.381	-0.79	0.260	54.7	148.5	1.0	0.293
4-1720	4-3040	0.759	315.3	-15.5	1.00	1.303	125.0	0.796	3.017	278.8	552.0	0.616	5.419	-0.79	0.262	53.3	149.4	1.0	0.298
4-1720	4-3060	0.773	316.1	-15.3	0.97	1.303	125.8	0.801	3.030	277.3	552.2	0.603	5.457	-0.79	0.264	52.0	150.3	1.0	0.303
4-1720	4-3080	0.787	316.9	-15.2	0.95	1.304	126.6	0.806	3.043	275.7	552.5	0.590	5.497	-0.79	0.266	50.7	151.3	0.9	0.309
4-1720	4-3100	0.802	317.7	-15.0	0.92	1.304	127.4	0.811	3.057	274.2	552.7	0.577	5.537	-0.80	0.268	49.5	152.4	0.9	0.314
4-1720	4-3120	0.817	318.6	-14.8	0.90	1.305	128.2	0.817	3.071	272.6	552.9	0.563	5.578	-0.80	0.270	48.2	153.5	0.9	0.319
4-1720	4-3140	0.832	319.4	-14.7	0.87	1.305	129.0	0.822	3.084	271.0	553.1	0.549	5.620	-0.81	0.272	47.0	154.7	0.8	0.324
4-1720	4-3160	0.847	320.2	-14.5	0.85	1.306	129.9	0.828	3.099	269.3	553.2	0.534	5.663	-0.81	0.274	45.8	155.9	0.8	0.330
4-1720	4-3180	0.863	321.0	-14.3	0.82	1.306	130.8	0.833	3.113	267.7	553.3	0.520	5.706	-0.82	0.276	44.6	157.1	0.7	0.335
4-1720	4-3200	0.879	321.8	-14.1	0.79	1.307	131.6	0.839	3.127	266.0	553.4	0.505	5.750	-0.83	0.278	43.5	158.4	0.7	0.340
4-1720	4-3220	0.895	322.6	-13.9	0.77	1.308	132.5	0.844	3.142	264.3	553.5	0.490	5.795	-0.84	0.280	42.3	159.7	0.6	0.346
4-1720	4-3240	0.911	323.4	-13.7	0.74	1.308	133.4	0.850	3.157	262.6	553.5	0.474	5.840	-0.84	0.282	41.2	161.0	0.6	0.351
4-1720	4-3260	0.928	324.2	-13.5	0.71	1.309	134.4	0.855	3.172	260.8	553.5	0.459	5.885	-0.86	0.284	40.1	162.4	0.5	0.356
4-1720	4-3280	0.945	325.0	-13.3	0.68	1.309	135.3	0.861	3.187	259.1	553.5	0.443	5.931	-0.87	0.285	39.0	163.8	0.4	0.362
4-1720	4-3300	0.962	325.8	-13.0	0.65	1.310	136.2	0.866	3.203	257.3	553.5	0.428	5.978	-0.88	0.287	37.9	165.2	0.4	0.367
4-1720	4-3320	0.979	326.6	-12.8	0.62	1.310	137.2	0.872	3.218	255.5	553.5	0.412	6.025	-0.89	0.289	36.8	166.6	0.3	0.372
4-1730	4-2150	0.813	302.7	24.5	25.57	1.408	113.5	0.96423.259		312.2	494.5	0.829	---	-24.71	0.596	154.8	170.6	-9.6	0.607
4-1730	4-2170	0.676	300.0	9.1	14.78	1.391	112.5	0.92611.357		313.1	497.1	0.837	---	-13.92	0.558	153.0	172.3	-5.9	0.555
4-1730	4-2190	0.622	299.5	1.7	10.47	1.378	111.7	0.893	7.926	313.9	499.6	0.845	---	-9.63	0.523	151.1	172.8	-4.3	0.516
4-1730	4-2210	0.589	299.2	-2.4	8.17	1.366	111.0	0.865	6.306	314.6	502.1	0.851	---	-7.35	0.491	149.1	172.9	-3.5	0.482
4-1730	4-2230	0.564	298.9	-5.1	6.75	1.356	110.3	0.840	5.370	315.2	504.5	0.857	---	-5.94	0.463	147.1	172.9	-2.9	0.452
4-1730	4-2250	0.545	298.7	-7.0	5.78	1.347	109.8	0.819	4.765	315.8	506.9	0.862	---	-4.99	0.437	144.9	172.7	-2.6	0.424
4-1730	4-2270	0.530	298.5	-8.4	5.08	1.339	109.3	0.801	4.345	316.3	509.2	0.866	---	-4.30	0.413	142.7	172.4	-2.3	0.399
4-1730	4-2290	0.517	298.3	-9.5	4.55	1.333	108.9	0.785	4.039	316.7	511.4	0.870	---	-3.78	0.392	140.4	171.9	-2.1	0.376
4-1730	4-2310	0.506	298.2	-10.4	4.13	1.327	108.6	0.771	3.809	317.0	513.5	0.872	---	-3.38	0.373	138.0	171.4	-1.9	0.355
4-1730	4-2330	0.497	298.1	-11.2	3.79	1.322	108.3	0.759	3.630	317.2	515.5	0.875	---	-3.05	0.355	135.5	170.7	-1.8	0.336
4-1730	4-2350	0.490	298.1	-11.8	3.50	1.318	108.1	0.749	3.489	317.4	517.5	0.876	---	-2.79	0.340	132.9	169.9	-1.6	0.319
4-1730	4-2370	0.484	298.1	-12.3	3.27	1.315	107.9	0.740	3.376	317.5	519.4	0.878	---	-2.57	0.326	130.3	169.0	-1.5	0.304
4-1730	4-2390	0.480	298.2	-12.8	3.07	1.311	107.8	0.733	3.284	317.5	521.3	0.878	---	-2.38	0.313	127.5	168.0	-1.4	0.290
4-1730	4-2410	0.476	298.3	-13.2	2.89	1.309	107.7	0.726	3.209	317.4	523.0	0.879	---	-2.22	0.302	124.8	166.9	-1.3	0.277
4-1730	4-2430	0.474	298.5	-13.5	2.74	1.306	107.7	0.721	3.148	317.3	524.7	0.878	---	-2.08	0.292	122.0	165.6	-1.2	0.266
4-1730	4-2450	0.472	298.8	-13.8	2.60	1.304	107.7	0.717	3.097	317.1	526.3	0.878	---	-1.97	0.283	119.1	164.3	-1.1	0.257
4-1730	4-2470	0.472	299.1	-14.1	2.48	1.303	107.8	0.713	3.055	316.8	527.9	0.877	---	-1.86	0.276	116.3	162.9	-1.0	0.248
4-1730	4-2490	0.472	299.5	-14.3	2.37	1.301	107.9	0.710	3.020	316.5	529.4	0.875	---	-1.77	0.269	113.4	161.5	-0.8	0.241
4-1730	4-2510	0.473	299.9	-14.5	2.27	1.300	108.0	0.708	2.992	316.1	530.8	0.874	---	-1.69	0.263	110.6	160.0	-0.7	0.234
4-1730	4-2530	0.474	300.3	-14.7	2.18	1.299	108.2	0.706	2.968	315.6	532.2	0.872	---	-1.61	0.258	107.8	158.5	-0.6	0.229
4-1730	4-2550	0.477	300.8	-14.9	2.10	1.298	108.4	0.705	2.949	315.1	533.5	0.869	---	-1.55	0.254	105.0	157.0	-0.5	0.225
4-1730	4-2570	0.479	301.3	-15.0	2.02	1.297	108.6	0.705	2.934	314.6	534.8	0.866	---	-1.49	0.251	102.2	155.5	-0.4	0.222
4-1730	4-2590	0.483	301.9	-15.1	1.95	1.297	108.8	0.705	2.922	313.9	536.0	0.863	---	-1.43	0.248	99.5	154.1	-0.3	0.220
4-1730	4-2610	0.487	302.5	-15.2	1.88	1.297	109.1	0.705	2.913	313.2	537.1	0.859	---	-1.38	0.246	96.9	152.8	-0.2	0.218
4-1730	4-2630	0.491	303.2	-15.3	1.82	1.296	109.4	0.706	2.906	312.5	538.2	0.856	---	-1.34	0.245	94.3	151.5	-0.0	0.217
4-1730	4-2650	0.496	303.8	-15.4	1.76	1.296	109.7	0.707	2.902	311.7	539.3	0.851	---	-1.30	0.244	91.8	150.3	0.1	0.217
4-1730	4-2670	0.502	304.5	-15.4	1.71	1.296	110.1	0.708	2.899	310.9	540.3	0.847	4.951	-1.26	0.243	89.4	149.2	0.2	0.217
4-1730	4-2690	0.508	305.2	-15.4	1.66	1.296	110.5	0.710	2.898	310.0	541.2	0.842	4.954	-1.23	0.243	87.0	148.3	0.2	0.218
4-1730	4-2710	0.514	306.0	-15.4	1.61	1.296	110.8	0.711	2.899	309.1	542.2	0.837	4.961	-1.20	0.243	84.7	147.5	0.3	0.220
4-1730	4-2730	0.521	306.7	-15.4	1.56	1.296	111.3	0.714	2.901	308.2	543.0	0.831	4.970	-1.17	0.243	82.5	146.8	0.4	0.222
4-1730	4-2750	0.528	307.5	-15.4	1.52	1.296	111.7	0.716	2.904	307.2	543.9	0.825	4.983	-1.15	0.244	80.4	146.2	0.5	0.224
4-1730	4-2770	0.536	308.3	-15.4	1.47	1.296	112.2	0.718	2.908	306.2	544.7	0.819	4.998	-1.12	0.244	78.4	145.7	0.5	0.227
4-1730	4-2790	0.544	309.1	-15.3	1.43	1.297	112.6	0.721	2.914	305.1	545.4	0.812	5.015	-1.10	0.245	76.4	145.4	0.6	0.230
4-1730	4-2810	0.553	309.9	-15.3	1.39	1.297	113.1	0.724	2.920	304.0	546.1	0.805	5.034	-1.08	0.247	74.5	145.2	0.6	0.233
4-1730	4-2830	0.561	310.7	-15.2	1.35	1.297	113.7	0.727	2.927	302.8	546.8	0.798	5.056	-1.07	0.248	72.7	145.1	0.7	0.237
4-1730	4-2850	0.571	311.6	-15.1	1.32	1.297	114.2	0.731	2.934	301.7	547.5	0.790	5.079	-1.05	0.249	70.9	145.1	0.7	0.240
4-1730	4-2870	0.580	312.4	-15.1	1.28	1.298	114.8	0.734	2.943	300.5	548.1	0.782	5.104	-1.04	0.251	69.2	145.3	0.8	0.244
4-1730	4-2890	0.590	313.2	-15.0	1.24	1.298	115.3	0.738	2.952	299.2	548.7	0.773	5.130	-1.02	0.252	67.6	145.5	0.8	0.248
4-1730	4-2910	0.601	314.1	-14.9	1.21	1.299	115.9	0.742	2.961	298.0	549.3	0.765	5.158	-1.01	0.254	66.0	145.8	0.8	0.253
4-1730	4-2930	0.611	314.9	-14.7	1.18	1.299	116.5	0.746	2.971	296.7	549.8	0.756	5.187	-1.00	0.256	64.5	146.2	0.8	0.257
4-1730	4-2950	0.622	315.8	-14.6	1.14	1.300	117.2	0.750	2.982	295.4	550.3	0.746	5.218	-0.99	0.258	63.0	146.7	0.8	0.261
4-1730	4-2970	0.634	316.6	-14.5	1.11	1.300	117.8	0.754	2.993	294.0	550.7	0.736	5.250	-0.99	0.259	61.6	147.3	0.8	0.266
4-1730	4-2990	0.645	317.5	-14.3	1.08	1.301	118.4	0.758	3.004	292.6	551.2	0.726	5.282	-0.98	0.261	60.2	147.9	0.8	0.270
4-1730	4-3010	0.657	318.3	-14.2	1.05	1.301	119.1	0.763	3.016	291.2	551.6	0.715	5.316	-0.97	0.263	58.8	148.7	0.8	0.275
4-1730	4-3030	0.669	319.2	-14.0	1.02	1.302	119.8	0.767	3.028	289.8	552.0	0.705	5.352	-0.97	0.265	57.5	149.4	0.8	0.280
4-1730	4-3050	0.682	320.0	-13.9	0.99	1.302	120.5	0.772	3.040	288.4	552.3	0.693	5.388	-0.96	0.267	56.2	150.3	0.8	0.284
4-1730	4-3070	0.695	320.9	-13.7	0.96	1.303	121.2	0.777	3.053	286.9	552.6	0.682	5.425	-0.96	0.269	54.9	151.2	0.7	0.289
4-1730	4-3090	0.708	321.7	-13.5	0.93	1.303	122.0	0.782	3.066	285.4	552.9	0.670	5.462	-0.96	0.271	53.7	152.1	0.7	0.294
4-1730	4-3110	0.721	322.5	-13.3	0.90	1.304	122.7	0.786	3.079	283.9	553.2	0.658	5.501	-0.96	0.272	52.5	153.2	0.7	0.299
4-1730	4-3130	0.735	323.4	-13.1	0.87	1.304	123.5	0.791	3.093	282.4	553.5	0.645	5.541	-0.96	0.274	51.3	154.2	0.7	0.304
4-1730	4-3150	0.749	324.2	-13.0	0.84	1.305	124.2	0.797	3.106	280.8	553.7	0.632	5.581	-0.96	0.276	50.2	155.3	0.6	0.309
4-1730	4-3170	0.764	325.1	-12.8	0.81	1.305	125.0	0.802	3.120	279.2	553.9	0.619	5.622	-0.96	0.278	49.1	156.4	0.6	0.314
4-1730	4-3190	0.778	325.9	-12.5	0.78	1.306	125.8	0.807	3.134	277.6	554.1	0.605	5.664	-0.97	0.280	48.0	157.6	0.5	0.318
4-1730	4-3210	0.793	326.7	-12.3	0.75	1.306	126.7	0.812	3.149	276.0	554.2	0.592	5.706	-0.97	0.282	46.9	158.8	0.5	0.323
4-1730	4-3230	0.808	327.5	-12.1	0.72	1.307	127.5	0.817	3.163	274.4	554.3	0.577	5.749	-0.97	0.283	45.8	160.1	0.4	0.328
4-1730	4-3250	0.823	328.4	-11.9	0.69	1.308	128.3	0.823	3.178	272.7	554.4	0.563	5.792	-0.98	0.285	44.7	161.4	0.4	0.333
4-1730	4-3270	0.839	329.2	-11.7	0.66	1.308	129.2	0.828	3.193	271.0	554.5	0.549	5.837	-0.99	0.287	43.7	162.7	0.3	0.338

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1730	4-3290	0.855	330.0	-11.5	0.62	1.309	130.1	0.834	3.207	269.3	554.6	0.534	5.881	-0.99	0.288	42.6	164.0	0.3	0.343
4-1730	4-331C	0.871	330.8	-11.2	0.59	1.309	131.0	0.839	3.223	267.6	554.6	0.519	5.926	-1.00	0.290	41.6	165.4	0.2	0.348
4-1730	4-3330	0.887	331.6	-11.0	0.56	1.310	131.9	0.845	3.238	265.9	554.6	0.503	5.972	-1.01	0.292	40.6	166.8	0.2	0.353
4-1740	4-2120	0.648	311.6	-29.0	-5.11	1.446	111.5	1.06213.905		318.2	487.5	0.861	---	5.92	0.686	157.2	174.2	2.6	0.676
4-1740	4-2140	0.619	311.9	-32.1	-6.30	1.424	110.4	1.00812.370		319.3	490.3	0.870	---	7.09	0.638	155.6	174.4	3.3	0.628
4-1740	4-2160	0.599	313.1	-36.4	-8.06	1.406	109.5	0.96222.812		320.2	493.1	0.878	---	8.83	0.596	153.9	174.5	4.2	0.585
4-1740	4-2180	0.593	316.1	-42.9	-10.97	1.390	108.6	0.92211.324		321.2	495.8	0.885	---	11.72	0.558	152.2	174.5	5.8	0.548
4-1740	4-2200	0.624	325.4	-53.4	-16.65	1.376	107.8	0.888	7.940	322.1	498.4	0.892	---	17.39	0.523	150.3	174.0	8.9	0.518
4-1740	4-2220	0.810	7.6	-64.6	-31.91	1.364	107.1	0.858	6.331	323.0	500.9	0.898	---	32.63	0.492	148.3	171.3	16.3	0.512
4-1740	4-2240	1.644	9.9	63.0	86.46	1.354	107.0	0.834	5.398	322.4	503.6	0.897	---	-85.76	0.464	146.4	152.3	-22.0	0.645
4-1740	4-226C	0.777	303.5	41.5	30.96	1.346	106.2	0.811	4.794	323.7	505.9	0.904	---	-30.27	0.438	144.2	169.4	-16.0	0.455
4-1740	4-2280	0.580	299.1	21.5	17.28	1.338	105.7	0.792	4.374	324.4	508.2	0.908	---	-16.61	0.415	142.0	172.1	-10.0	0.406
4-1740	4-2300	0.515	298.6	11.0	11.98	1.332	105.3	0.776	4.068	324.9	510.5	0.911	---	-11.33	0.394	139.7	172.5	-7.3	0.377
4-1740	4-232C	0.484	298.6	4.8	9.21	1.326	104.9	0.762	3.836	325.3	512.7	0.914	---	-8.58	0.375	137.3	172.3	-5.8	0.354
4-1740	4-234C	0.465	298.7	0.7	7.52	1.321	104.7	0.750	3.657	325.6	514.8	0.916	---	-6.90	0.358	134.8	171.8	-4.8	0.334
4-1740	4-236C	0.452	298.8	-2.2	6.37	1.317	104.5	0.739	3.516	325.8	516.8	0.917	---	-5.78	0.343	132.3	171.1	-4.2	0.317
4-1740	4-238C	0.442	298.9	-4.3	5.55	1.314	104.3	0.730	3.402	325.9	518.7	0.919	---	-4.97	0.329	129.6	170.3	-3.7	0.301
4-1740	4-24CC	0.436	299.1	-6.0	4.92	1.311	104.2	0.722	3.310	326.0	520.6	0.919	---	-4.36	0.317	127.0	169.4	-3.3	0.287
4-1740	4-2420	0.431	299.4	-7.3	4.43	1.308	104.1	0.716	3.235	326.0	522.4	0.919	---	-3.89	0.306	124.3	168.3	-3.0	0.274
4-1740	4-2440	0.427	299.7	-8.3	4.04	1.306	104.1	0.710	3.173	325.9	524.1	0.919	---	-3.51	0.297	121.5	167.1	-2.7	0.263
4-1740	4-246C	0.424	300.0	-9.2	3.71	1.304	104.1	0.706	3.122	325.7	525.8	0.919	---	-3.20	0.288	118.8	165.8	-2.4	0.253
4-1740	4-248C	0.423	300.4	-10.0	3.44	1.302	104.2	0.702	3.080	325.4	527.3	0.918	---	-2.95	0.281	116.0	164.5	-2.2	0.245
4-1740	4-250C	0.422	300.8	-10.6	3.21	1.301	104.2	0.699	3.045	325.1	528.9	0.917	---	-2.73	0.274	113.2	163.1	-2.0	0.237
4-1740	4-2520	0.422	301.3	-11.1	3.00	1.299	104.4	0.696	3.016	324.8	530.3	0.916	---	-2.55	0.269	110.5	161.6	-1.8	0.231
4-1740	4-254C	0.423	301.9	-11.6	2.83	1.298	104.5	0.695	2.993	324.3	531.7	0.914	---	-2.39	0.264	107.8	160.1	-1.6	0.225
4-1740	4-256C	0.425	302.5	-12.0	2.67	1.297	104.7	0.693	2.974	323.8	533.0	0.912	---	-2.25	0.260	105.1	158.7	-1.4	0.221
4-1740	4-258C	0.427	303.1	-12.3	2.53	1.297	104.9	0.692	2.958	323.3	534.3	0.910	---	-2.13	0.257	102.4	157.2	-1.3	0.218
4-1740	4-260C	0.430	303.8	-12.6	2.41	1.296	105.1	0.692	2.946	322.7	535.5	0.907	---	-2.03	0.254	99.8	155.8	-1.1	0.215
4-1740	4-262C	0.433	304.5	-12.9	2.29	1.296	105.4	0.692	2.937	322.0	536.7	0.905	---	-1.93	0.252	97.3	154.4	-0.9	0.213
4-1740	4-2640	0.437	305.2	-13.1	2.19	1.296	105.7	0.692	2.930	321.3	537.8	0.901	---	-1.85	0.250	94.8	153.2	-0.8	0.212
4-1740	4-266C	0.441	306.0	-13.2	2.09	1.295	106.0	0.693	2.925	320.6	538.9	0.898	---	-1.77	0.249	92.4	152.0	-0.6	0.212
4-1740	4-268C	0.446	306.8	-13.4	2.01	1.295	106.3	0.694	2.923	319.8	540.0	0.894	---	-1.70	0.249	90.1	150.9	-0.5	0.212
4-1740	4-270C	0.451	307.6	-13.5	1.92	1.295	106.7	0.695	2.922	318.9	540.9	0.890	4.953	-1.64	0.248	87.9	149.9	-0.4	0.213
4-1740	4-2720	0.457	308.5	-13.6	1.85	1.295	107.1	0.697	2.922	318.0	541.9	0.886	4.959	-1.59	0.248	85.7	149.1	-0.3	0.214
4-1740	4-274C	0.463	309.4	-13.6	1.78	1.295	107.5	0.699	2.924	317.1	542.8	0.881	4.967	-1.54	0.249	83.6	148.3	-0.2	0.215
4-1740	4-276C	0.469	310.2	-13.7	1.71	1.295	107.9	0.701	2.927	316.1	543.6	0.876	4.979	-1.49	0.249	81.6	147.7	-0.1	0.217
4-1740	4-278C	0.476	311.1	-13.7	1.65	1.296	108.3	0.703	2.932	315.1	544.5	0.871	4.992	-1.45	0.250	79.6	147.2	0.0	0.220
4-1740	4-280C	0.483	312.0	-13.7	1.59	1.296	108.8	0.705	2.937	314.1	545.3	0.866	5.008	-1.41	0.251	77.8	146.9	0.1	0.222
4-1740	4-282C	0.491	313.0	-13.6	1.53	1.296	109.2	0.708	2.943	313.0	546.0	0.860	5.026	-1.38	0.252	76.0	146.6	0.2	0.225
4-1740	4-284C	0.499	313.9	-13.6	1.48	1.296	109.7	0.711	2.950	311.9	546.7	0.854	5.046	-1.34	0.253	74.2	146.5	0.3	0.229
4-1740	4-286C	0.507	314.8	-13.5	1.43	1.297	110.2	0.714	2.958	310.7	547.4	0.847	5.068	-1.32	0.254	72.5	146.5	0.3	0.232
4-1740	4-288C	0.516	315.8	-13.5	1.38	1.297	110.8	0.717	2.966	309.6	548.1	0.840	5.092	-1.29	0.256	70.9	146.6	0.4	0.236
4-1740	4-2900	0.525	316.7	-13.4	1.33	1.298	111.3	0.720	2.975	308.4	548.7	0.833	5.117	-1.27	0.257	69.4	146.8	0.4	0.239
4-1740	4-2920	0.535	317.6	-13.3	1.29	1.298	111.9	0.723	2.984	307.1	549.3	0.826	5.143	-1.24	0.259	67.9	147.0	0.4	0.243
4-1740	4-294C	0.544	318.6	-13.1	1.24	1.298	112.4	0.727	2.994	305.9	549.8	0.818	5.171	-1.22	0.261	66.4	147.4	0.5	0.247
4-1740	4-296C	0.554	319.5	-13.0	1.20	1.299	113.0	0.731	3.005	304.6	550.3	0.810	5.200	-1.21	0.262	65.0	147.9	0.5	0.251
4-1740	4-298C	0.565	320.4	-12.9	1.16	1.299	113.6	0.734	3.016	303.3	550.8	0.801	5.230	-1.19	0.264	63.6	148.4	0.5	0.255
4-1740	4-300C	0.575	321.4	-12.7	1.12	1.300	114.2	0.738	3.027	302.0	551.3	0.792	5.262	-1.17	0.266	62.3	149.0	0.5	0.259
4-1740	4-302C	0.586	322.3	-12.6	1.08	1.300	114.9	0.742	3.039	300.6	551.8	0.783	5.294	-1.16	0.267	61.0	149.7	0.5	0.264
4-1740	4-3040	0.598	323.2	-12.4	1.04	1.301	115.5	0.746	3.051	299.2	552.2	0.774	5.328	-1.15	0.269	59.8	150.4	0.5	0.268
4-1740	4-306C	0.609	324.1	-12.2	1.00	1.301	116.2	0.751	3.063	297.8	552.6	0.764	5.362	-1.14	0.271	58.6	151.2	0.5	0.272
4-1740	4-308C	0.621	325.0	-12.0	0.97	1.302	116.9	0.755	3.075	296.4	552.9	0.754	5.397	-1.13	0.273	57.4	152.1	0.5	0.277
4-1740	4-310C	0.633	325.9	-11.9	0.93	1.302	117.5	0.759	3.088	294.9	553.3	0.743	5.433	-1.12	0.275	56.2	153.0	0.5	0.281
4-1740	4-312C	0.645	326.8	-11.7	0.90	1.303	118.2	0.764	3.101	293.5	553.6	0.732	5.471	-1.12	0.276	55.1	153.9	0.5	0.286
4-1740	4-3140	0.658	327.7	-11.5	0.86	1.303	119.0	0.769	3.115	292.0	553.9	0.721	5.508	-1.11	0.278	54.0	155.0	0.4	0.290
4-1740	4-316C	0.671	328.6	-11.2	0.83	1.304	119.7	0.773	3.128	290.5	554.2	0.709	5.547	-1.11	0.280	52.9	156.0	0.4	0.295
4-1740	4-318C	0.684	329.5	-11.0	0.79	1.304	120.4	0.778	3.142	288.9	554.4	0.698	5.586	-1.10	0.281	51.8	157.1	0.4	0.300
4-1740	4-320C	0.698	330.4	-10.8	0.76	1.305	121.2	0.783	3.156	287.4	554.6	0.685	5.626	-1.10	0.283	50.8	158.2	0.3	0.304
4-1740	4-3220	0.712	331.2	-10.6	0.72	1.305	122.0	0.788	3.170	285.8	554.8	0.673	5.667	-1.10	0.285	49.8	159.4	0.3	0.309
4-1740	4-3240	0.726	332.1	-10.4	0.69	1.306	122.7	0.793	3.184	284.2	555.0	0.660	5.708	-1.10	0.287	48.8	160.6	0.3	0.313
4-1740	4-3260	0.740	332.9	-10.1	0.66	1.307	123.5	0.798	3.199	282.6	555.2	0.647	5.750	-1.10	0.288	47.8	161.9	0.2	0.318
4-1740	4-3280	0.754	333.8	-9.9	0.62	1.307	124.3	0.803	3.213	281.0	555.3	0.634	5.793	-1.10	0.290	46.8	163.1	0.2	0.323
4-1740	4-3300	0.769	334.6	-9.6	0.59	1.308	125.2	0.808	3.228	279.4	555.4	0.620	5.836	-1.11	0.291	45.8	164.4	0.1	0.327
4-1740	4-3320	0.784	335.5	-9.4	0.55	1.308	126.0	0.813	3.243	277.7	555.5	0.606	5.880	-1.11	0.293	44.8	165.8	0.1	0.332
4-1740	4-334C	0.799	336.3	-9.1	0.52	1.309	126.8	0.818	3.258	276.1	555.6	0.592	5.924	-1.11	0.295	43.9	167.1	0.0	0.336
4-1750	4-211C	0.619	313.1	-23.5	-2.54	1.468	108.6	1.126-7.123		325.0	483.4	0.898	---	3.27	0.734	158.0	175.1	1.5	0.719
4-1750	4-213C	0.583	312.3	-24.8	-2.84	1.442	107.4	1.06015.130		326.2	486.4	0.906	---	3.55	0.681	156.5	175.4	1.7	0.666
4-1750	4-2150	0.552	311.7	-26.2	-3.20	1.421	106.4	1.00432.102		327.3	489.2	0.914	---	3.89	0.635	154.9	175.7	1.9	0.618
4-1750	4-217C	0.525	311.2	-27.8	-3.63	1.403	105.5	0.95621.095		328.3	492.1	0.921	---	4.30	0.593	153.2	175.9	2.2	0.575
4-1750	4-219C	0.503	310.8	-29.8	-4.17	1.387	104.6	0.91610.985		329.3	494.8	0.926	---	4.82	0.555	151.4	176.0	2.6	0.537
4-1750	4-221C	0.485	310.6	-32.1	-4.85	1.374	103.9	0.881	7.815	330.2	497.5	0.931	---	5.49	0.521	149.5	176.0	3.1	0.502
4-1750	4-223C	0.472	310.9	-35.2	-5.76	1.362	103.3	0.851	6.275	331.1	500.2	0.936	---	6.38	0.491	147.5	175.9	3.8	0.470
4-1750	4-225C	0.464	311.7	-39.1	-7.02	1.352	102.7	0.825	5.372	331.8	502.7	0.940	---	7.62	0.463	145.5	175.8	4.8	0.441
4-1750	4-227C	0.464	313.8	-44.5	-8.90	1.344	102.2	0.803	4.783	332.5	505.2	0.943	---	9.48	0.438	143.4	175.4	6.2	0.416
4-1750	4-229C	0.480	318.8	-52.2	-11.96	1.336	101.8	0.784	4.372	333.2	507.6	0.946	---	12.52	0.415	141.1	174.9	8.5	0.395
4-1750	4-231C	0.540	334.4	-63.1	-17.86	1.330	101.4	0.767	4.072	333.7	509.9	0.948	---	18.40	0.395	138.8	173.7	12.8	0.382
4-1750	4-233C	0.764	32.5	-67.7	-33.11	1.325	101.0	0.753	3.844	334.3	512.1	0.951	---	33.63	0.376	136.5	169.9	21.7	0.399
4-1750	4-2350	1.657	71.1	-29.9	-89.60	1.320	100.4	0.740	3.668	335.4	514.2	0.955	---	90.10	0.360	133.9	151.9	27.7	0.587
4-1750	4-237C	0.772	301.5	52.9	34.02	1.316	100.9	0.730	3.528	334.1	516.3	0.951	---	-33.53	0.345	131.5	166.0	-22.0	0.369
4-1750	4-239C	0.534	296.7	31.1	18.80	1.312	100.7	0.721	3.416	334.5	518.3	0.952	---	-18.34	0.331	129.0	169.2	-14.4	0.315

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1760	4-2720	0.358	306.9	-7.5	3.16	1.293	99.3	0.674	2.958	336.8	540.7	0.963	4.953	-3.15	0.256	88.6	152.2	-2.5	0.205
4-1760	4-2740	0.362	308.2	-8.1	2.93	1.293	99.7	0.675	2.959	335.9	541.6	0.961	4.958	-2.94	0.257	86.6	151.3	-2.2	0.205
4-1760	4-2760	0.365	309.4	-8.6	2.73	1.293	100.0	0.677	2.962	335.0	542.6	0.958	4.965	-2.76	0.257	84.7	150.6	-1.9	0.207
4-1760	4-2780	0.370	310.7	-9.1	2.55	1.293	100.4	0.678	2.965	334.1	543.4	0.955	4.975	-2.60	0.257	82.8	150.0	-1.7	0.208
4-1760	4-2800	0.374	312.0	-9.4	2.39	1.293	100.8	0.679	2.970	333.1	544.3	0.952	4.988	-2.46	0.258	81.1	149.5	-1.4	0.210
4-1760	4-2820	0.379	313.3	-9.7	2.25	1.293	101.3	0.681	2.975	332.1	545.1	0.949	5.002	-2.34	0.259	79.3	149.2	-1.2	0.212
4-1760	4-2840	0.385	314.6	-9.9	2.12	1.294	101.7	0.683	2.982	331.0	545.9	0.945	5.019	-2.23	0.260	77.7	148.9	-1.1	0.215
4-1760	4-2860	0.391	315.9	-10.0	2.00	1.294	102.2	0.685	2.989	329.9	546.6	0.941	5.037	-2.13	0.261	76.1	148.7	-0.9	0.217
4-1760	4-2880	0.397	317.3	-10.1	1.89	1.294	102.6	0.687	2.997	328.8	547.3	0.937	5.057	-2.05	0.263	74.6	148.7	-0.8	0.220
4-1760	4-2900	0.404	318.5	-10.2	1.79	1.295	103.1	0.690	3.006	327.7	548.0	0.933	5.079	-1.97	0.264	73.1	148.8	-0.6	0.223
4-1760	4-2920	0.411	319.8	-10.2	1.69	1.295	103.6	0.692	3.015	326.5	548.7	0.928	5.101	-1.90	0.265	71.7	148.9	-0.5	0.226
4-1760	4-2940	0.418	321.1	-10.1	1.61	1.296	104.1	0.695	3.024	325.4	549.3	0.923	5.126	-1.84	0.267	70.4	149.1	-0.4	0.229
4-1760	4-2960	0.426	322.4	-10.1	1.53	1.296	104.6	0.697	3.035	324.1	549.9	0.918	5.151	-1.78	0.268	69.0	149.5	-0.4	0.233
4-1760	4-2980	0.434	323.6	-10.0	1.45	1.296	105.2	0.700	3.045	322.9	550.5	0.913	5.178	-1.73	0.270	67.8	149.9	-0.3	0.236
4-1760	4-3000	0.442	324.9	-9.9	1.38	1.297	105.7	0.703	3.056	321.6	551.0	0.907	5.206	-1.68	0.272	66.5	150.4	-0.2	0.240
4-1760	4-3020	0.450	326.1	-9.8	1.31	1.297	106.3	0.706	3.068	320.4	551.5	0.901	5.235	-1.64	0.273	65.4	150.9	-0.2	0.243
4-1760	4-3040	0.459	327.3	-9.6	1.25	1.298	106.8	0.710	3.079	319.1	552.0	0.894	5.264	-1.60	0.275	64.2	151.6	-0.1	0.247
4-1760	4-3060	0.468	328.5	-9.4	1.19	1.298	107.4	0.713	3.092	317.7	552.5	0.888	5.295	-1.56	0.277	63.1	152.2	-0.1	0.251
4-1760	4-3080	0.478	329.7	-9.2	1.13	1.299	108.0	0.716	3.104	316.4	553.0	0.881	5.327	-1.53	0.278	62.0	153.0	-0.1	0.255
4-1760	4-3100	0.488	330.8	-9.0	1.07	1.299	108.6	0.720	3.117	315.0	553.4	0.874	5.359	-1.50	0.280	61.0	153.8	-0.1	0.258
4-1760	4-3120	0.498	332.0	-8.8	1.02	1.300	109.2	0.723	3.129	313.6	553.8	0.866	5.393	-1.47	0.281	59.9	154.6	-0.1	0.262
4-1760	4-3140	0.508	333.1	-8.6	0.97	1.300	109.9	0.727	3.143	312.2	554.2	0.858	5.427	-1.44	0.283	58.9	155.6	-0.0	0.266
4-1760	4-3160	0.519	334.2	-8.4	0.92	1.301	110.5	0.731	3.156	310.8	554.5	0.850	5.462	-1.42	0.285	57.9	156.5	-0.0	0.270
4-1760	4-3180	0.529	335.3	-8.1	0.87	1.301	111.2	0.735	3.169	309.4	554.9	0.841	5.497	-1.40	0.286	57.0	157.5	-0.1	0.274
4-1760	4-3200	0.541	336.4	-7.9	0.82	1.302	111.8	0.738	3.183	307.9	555.2	0.833	5.534	-1.38	0.288	56.1	158.5	-0.1	0.278
4-1760	4-3220	0.552	337.4	-7.6	0.77	1.302	112.5	0.742	3.197	306.5	555.5	0.823	5.570	-1.36	0.290	55.1	159.6	-0.1	0.282
4-1760	4-3240	0.564	338.5	-7.4	0.73	1.303	113.2	0.747	3.211	305.0	555.8	0.814	5.608	-1.35	0.291	54.2	160.7	-0.1	0.285
4-1760	4-3260	0.575	339.5	-7.1	0.69	1.304	113.9	0.751	3.225	303.5	556.0	0.804	5.646	-1.34	0.293	53.3	161.8	-0.1	0.289
4-1760	4-3280	0.588	340.5	-6.8	0.64	1.304	114.6	0.755	3.239	302.0	556.3	0.794	5.685	-1.32	0.294	52.5	163.0	-0.2	0.293
4-1760	4-3300	0.600	341.5	-6.5	0.60	1.305	115.3	0.759	3.254	300.4	556.5	0.784	5.724	-1.31	0.296	51.6	164.2	-0.2	0.297
4-1760	4-3320	0.613	342.5	-6.3	0.56	1.305	116.0	0.764	3.268	298.9	556.7	0.773	5.764	-1.30	0.297	50.8	165.5	-0.2	0.301
4-1760	4-3340	0.625	343.5	-6.0	0.52	1.306	116.8	0.768	3.283	297.3	556.9	0.762	5.804	-1.30	0.299	49.9	166.7	-0.3	0.305
4-1760	4-3360	0.638	344.4	-5.7	0.48	1.306	117.5	0.773	3.298	295.8	557.1	0.750	5.845	-1.29	0.300	49.1	168.0	-0.3	0.309
4-1770	4-2070	0.637	316.2	-19.8	-1.24	1.560	103.1	1.410-2.328		337.7	472.7	0.955	---	1.84	0.909	160.7	176.1	0.8	0.888
4-1770	4-2090	0.585	314.8	-20.6	-1.32	1.519	101.8	1.291-3.308		339.1	475.8	0.961	---	1.90	0.837	159.4	176.5	0.9	0.815
4-1770	4-2110	0.542	313.3	-21.5	-1.41	1.484	100.6	1.193-5.023		340.5	479.0	0.967	---	1.97	0.773	158.0	176.9	0.9	0.750
4-1770	4-2130	0.506	311.8	-22.4	-1.51	1.455	99.6	1.111-8.745		341.9	482.2	0.972	---	2.04	0.716	156.5	177.2	1.0	0.693
4-1770	4-2150	0.474	310.2	-23.3	-1.61	1.431	98.6	1.04322.573		343.2	485.3	0.977	---	2.12	0.666	155.0	177.5	1.1	0.642
4-1770	4-2170	0.448	308.6	-24.3	-1.72	1.411	97.7	0.98671.642		344.5	488.3	0.980	---	2.21	0.621	153.3	177.7	1.2	0.596
4-1770	4-2190	0.425	307.1	-25.3	-1.85	1.393	96.9	0.93815.915		345.7	491.3	0.983	---	2.31	0.580	151.6	177.8	1.3	0.554
4-1770	4-2210	0.406	305.6	-26.3	-1.98	1.378	96.2	0.897	9.615	346.8	494.2	0.986	---	2.42	0.544	149.8	177.8	1.4	0.517
4-1770	4-2230	0.390	304.2	-27.4	-2.13	1.366	95.6	0.863	7.202	347.8	497.1	0.988	---	2.55	0.511	147.9	177.8	1.6	0.483
4-1770	4-2250	0.377	303.0	-28.4	-2.29	1.355	95.1	0.833	5.936	348.8	499.8	0.990	---	2.69	0.482	145.9	177.7	1.7	0.452
4-1770	4-2270	0.365	301.8	-29.6	-2.48	1.345	94.6	0.808	5.163	349.6	502.5	0.991	---	2.86	0.455	143.9	177.5	1.9	0.424
4-1770	4-2290	0.356	300.8	-30.8	-2.69	1.337	94.2	0.786	4.645	350.4	505.0	0.992	---	3.05	0.431	141.7	177.2	2.2	0.398
4-1770	4-2310	0.348	300.0	-32.1	-2.93	1.330	93.9	0.768	4.277	351.1	507.5	0.993	---	3.26	0.410	139.5	176.8	2.5	0.375
4-1770	4-2330	0.341	299.4	-33.5	-3.21	1.324	93.6	0.752	4.005	351.6	509.9	0.994	---	3.52	0.390	137.2	176.3	2.8	0.354
4-1770	4-2350	0.337	298.9	-35.0	-3.54	1.319	93.4	0.738	3.798	352.1	512.1	0.994	---	3.83	0.372	134.8	175.7	3.3	0.335
4-1770	4-2370	0.333	298.7	-36.8	-3.93	1.315	93.2	0.726	3.636	352.4	514.3	0.995	---	4.20	0.357	132.4	175.0	3.8	0.317
4-1770	4-2390	0.331	298.8	-38.8	-4.40	1.311	93.0	0.716	3.507	352.7	516.4	0.995	---	4.65	0.343	129.9	174.1	4.4	0.301
4-1770	4-2410	0.331	299.2	-41.2	-4.99	1.308	93.0	0.708	3.403	352.9	518.4	0.995	---	5.22	0.330	127.3	173.2	5.1	0.287
4-1770	4-2430	0.333	300.1	-44.1	-5.75	1.305	92.9	0.700	3.319	353.0	520.3	0.995	---	5.95	0.319	124.7	172.2	6.1	0.275
4-1770	4-2450	0.338	301.5	-47.8	-6.75	1.302	92.9	0.694	3.250	353.0	522.1	0.995	---	6.93	0.309	122.1	171.1	7.4	0.264
4-1770	4-2470	0.348	303.9	-52.6	-8.15	1.300	92.9	0.688	3.193	352.9	523.8	0.995	---	8.31	0.300	119.5	169.8	9.1	0.255
4-1770	4-2490	0.368	308.4	-59.1	-10.24	1.298	92.9	0.684	3.147	352.8	525.5	0.995	---	10.39	0.293	116.8	168.5	11.5	0.249
4-1770	4-2510	0.409	319.0	-67.8	-13.71	1.297	93.0	0.680	3.108	352.6	527.1	0.995	---	13.83	0.286	114.2	166.9	15.3	0.248
4-1770	4-2530	0.507	359.5	-77.2	-20.49	1.296	93.1	0.677	3.076	352.3	528.6	0.995	---	20.59	0.280	111.6	165.0	21.7	0.258
4-1770	4-2550	0.807	74.5	-65.8	-38.38	1.294	93.1	0.674	3.050	352.2	530.1	0.995	---	38.46	0.276	109.0	161.0	31.8	0.317
4-1770	4-2570	1.520	89.8	80.6	81.79	1.294	94.0	0.672	3.029	350.1	531.4	0.992	---	-81.73	0.271	106.6	150.3	-29.4	0.501
4-1770	4-2590	0.712	288.4	59.7	32.87	1.293	93.9	0.670	3.012	350.4	532.8	0.993	---	-32.83	0.268	104.1	156.9	-28.2	0.288
4-1770	4-2610	0.480	290.8	38.4	18.72	1.292	94.0	0.669	2.998	350.0	534.1	0.992	---	-18.70	0.265	101.6	158.0	-19.6	0.236
4-1770	4-2630	0.400	293.3	25.1	12.93	1.292	94.2	0.668	2.988	349.5	535.3	0.992	---	-12.93	0.263	99.3	157.5	-14.2	0.219
4-1770	4-2650	0.365	295.4	16.3	9.84	1.291	94.5	0.668	2.980	348.9	536.5	0.991	---	-9.87	0.262	97.0	156.6	-10.9	0.212
4-1770	4-2670	0.348	297.3	10.2	7.93	1.291	94.7	0.667	2.975	348.2	537.6	0.990	---	-7.97	0.260	94.8	155.6	-8.7	0.207
4-1770	4-2690	0.339	299.1	5.7	6.63	1.291	95.0	0.667	2.971	347.4	538.7	0.989	---	-6.69	0.260	92.6	154.6	-7.2	0.205
4-1770	4-2710	0.335	300.8	2.4	5.68	1.291	95.3	0.667	2.970	346.7	539.7	0.988	---	-5.77	0.259	90.5	153.6	-6.0	0.204
4-1770	4-2730	0.333	302.5	-0.1	4.97	1.291	95.7	0.668	2.970	345.8	540.7	0.986	4.954	-5.08	0.259	88.5	152.7	-5.1	0.204
4-1770	4-2750	0.332	304.1	-2.0	4.40	1.291	96.0	0.669	2.972	345.0	541.7	0.985	4.959	-4.53	0.259	86.6	152.0	-4.3	0.204
4-1770	4-2770	0.333	305.8	-3.6	3.95	1.291	96.4	0.670	2.975	344.0	542.6	0.983	4.966	-4.10	0.260	84.8	151.3	-3.7	0.205
4-1770	4-2790	0.335	307.4	-4.8	3.57	1.291	96.8	0.671	2.979	343.1	543.5	0.981	4.976	-3.75	0.260	83.0	150.7	-3.2	0.206
4-1770	4-2810	0.338	309.1	-5.7	3.26	1.292	97.2	0.672	2.984	342.1	544.3	0.979	4.988	-3.45	0.261	81.3	150.3	-2.8	0.208
4-1770	4-2830	0.341	310.7	-6.5	2.99	1.292	97.6	0.673	2.990	341.1	545.1	0.977	5.003	-3.20	0.262	79.6	149.9	-2.4	0.209
4-1770	4-2850	0.345	312.3	-7.1	2.75	1.292	98.0	0.675	2.996	340.1	545.9	0.974	5.019	-2.99	0.263	78.1	149.7	-2.1	0.212
4-1770	4-2870	0.349	313.9	-7.6	2.55	1.293	98.5	0.677	3.004	339.0	546.7	0.972	5.037	-2.81	0.264	76.5	149.6	-1.8	0.214
4-1770	4-2890	0.354	315.6	-7.9	2.37	1.293	98.9	0.678	3.012	337.9	547.4	0.969	5.056	-2.65	0.266	75.1	149.5	-1.6	0.217
4-1770	4-2910	0.359	317.1	-8.2	2.21	1.293	99.4	0.680	3.021	336.8	548.1	0.966	5.077	-2.51	0.267	73.7	149.6	-1.4	0.219
4-1770	4-2930	0.365	318.7	-8.4	2.06	1.294	99.9	0.683	3.031	335.6	548.7	0.962	5.099	-2.39	0.268	72.3	149.7	-1.2	0.222
4-1770	4-2950	0.370	320.3	-8.5	1.93	1.294	100.4	0.685	3.041	334.4	549.4	0.959	5.123	-2.28	0.270	71.1	150.0	-1.1	0.225
4-1770	4-2970	0.377	321.8	-8.6	1.81	1.295	100.9	0.687	3.051	333.2	550.0	0.955	5.147	-2.18	0.271	69.8	150.3	-0.9	0.228
4-1770	4-2990	0.383	323.3	-8.6	1.70	1.295	101.4	0.690	3.062	332.0	550.6	0.951	5.173	-2.09	0.273	68.6	150.7	-0.8	0.231

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1770	4-3010	0.390	324.8	-8.5	1.60	1.295	101.9	0.692	3.073	330.8	551.1	0.946	5.200	-2.01	0.275	67.4	151.2	-0.7	0.235
4-1770	4-3030	0.398	326.3	-8.5	1.50	1.296	102.4	0.695	3.085	329.5	551.6	0.942	5.228	-1.94	0.276	66.3	151.8	-0.6	0.238
4-1770	4-3050	0.405	327.7	-8.3	1.41	1.296	103.0	0.698	3.097	328.2	552.2	0.937	5.257	-1.88	0.278	65.2	152.4	-0.5	0.241
4-1770	4-3070	0.413	329.2	-8.2	1.33	1.297	103.6	0.700	3.109	326.9	552.6	0.932	5.287	-1.82	0.279	64.2	153.1	-0.5	0.245
4-1770	4-3090	0.421	330.6	-8.0	1.26	1.297	104.1	0.703	3.122	325.6	553.1	0.926	5.317	-1.77	0.281	63.1	153.8	-0.4	0.248
4-1770	4-3110	0.430	331.9	-7.8	1.18	1.298	104.7	0.706	3.134	324.2	553.6	0.920	5.349	-1.72	0.283	62.2	154.6	-0.4	0.252
4-1770	4-3130	0.439	333.3	-7.6	1.11	1.298	105.3	0.710	3.147	322.9	554.0	0.914	5.381	-1.68	0.284	61.2	155.4	-0.4	0.255
4-1770	4-3150	0.448	334.6	-7.4	1.05	1.299	105.9	0.713	3.161	321.5	554.4	0.908	5.414	-1.63	0.286	60.2	156.3	-0.3	0.259
4-1770	4-3170	0.457	335.9	-7.2	0.99	1.299	106.5	0.716	3.174	320.1	554.8	0.901	5.447	-1.60	0.288	59.3	157.3	-0.3	0.262
4-1770	4-3190	0.467	337.2	-6.9	0.93	1.300	107.1	0.719	3.188	318.7	555.1	0.894	5.481	-1.56	0.289	58.4	158.2	-0.3	0.266
4-1770	4-3210	0.477	338.4	-6.6	0.87	1.300	107.8	0.723	3.202	317.3	555.5	0.887	5.516	-1.53	0.291	57.5	159.2	-0.3	0.270
4-1770	4-3230	0.487	339.6	-6.4	0.82	1.301	108.4	0.727	3.216	315.8	555.8	0.879	5.552	-1.51	0.292	56.7	160.3	-0.3	0.273
4-1770	4-3250	0.498	340.8	-6.1	0.76	1.301	109.1	0.730	3.230	314.4	556.1	0.872	5.588	-1.48	0.294	55.8	161.4	-0.3	0.277
4-1770	4-3270	0.508	342.0	-5.8	0.71	1.302	109.7	0.734	3.244	312.9	556.4	0.863	5.625	-1.46	0.295	55.0	162.5	-0.3	0.280
4-1770	4-3290	0.519	343.1	-5.5	0.66	1.303	110.4	0.738	3.258	311.4	556.7	0.855	5.662	-1.44	0.297	54.2	163.7	-0.4	0.284
4-1770	4-3310	0.531	344.3	-5.2	0.62	1.303	111.1	0.742	3.273	309.9	556.9	0.846	5.700	-1.42	0.298	53.4	164.8	-0.4	0.288
4-1770	4-3330	0.542	345.4	-4.9	0.57	1.304	111.8	0.745	3.287	308.4	557.2	0.837	5.738	-1.40	0.300	52.6	166.0	-0.4	0.291
4-1770	4-3350	0.554	346.5	-4.6	0.52	1.304	112.5	0.749	3.302	306.9	557.4	0.827	5.777	-1.38	0.301	51.8	167.3	-0.4	0.295
4-1770	4-3370	0.566	347.5	-4.2	0.48	1.305	113.2	0.754	3.317	305.3	557.6	0.817	5.816	-1.37	0.302	51.1	168.5	-0.5	0.298
4-1780	4-2060	0.638	315.5	-19.6	-1.04	1.596	99.1	1.540-1.816		345.0	469.2	0.980	---	1.57	0.973	161.2	176.6	0.7	0.949
4-1780	4-2080	0.582	313.7	-20.4	-1.10	1.548	97.9	1.393-2.508		346.5	472.5	0.985	---	1.60	0.892	160.0	177.0	0.7	0.868
4-1780	4-2100	0.536	311.8	-21.3	-1.17	1.508	96.7	1.273-3.617		348.0	475.7	0.989	---	1.64	0.821	158.7	177.4	0.8	0.796
4-1780	4-2120	0.497	309.7	-22.2	-1.23	1.475	95.7	1.176-5.643		349.5	479.0	0.992	---	1.68	0.758	157.3	177.7	0.8	0.733
4-1780	4-2140	0.464	307.6	-23.1	-1.30	1.447	94.7	1.09510.442		350.9	482.3	0.995	---	1.72	0.703	155.9	178.0	0.8	0.677
4-1780	4-2160	0.437	305.5	-24.0	-1.38	1.423	93.9	1.02835.188		352.4	485.5	0.997	---	1.77	0.654	154.3	178.2	0.9	0.627
4-1780	4-2180	0.414	303.5	-24.9	-1.45	1.404	93.1	0.97236.211		353.7	488.6	0.998	---	1.83	0.610	152.6	178.3	1.0	0.583
4-1780	4-2200	0.395	301.5	-25.8	-1.54	1.387	92.4	0.92513.404		355.0	491.7	0.999	---	1.89	0.570	150.9	178.4	1.1	0.542
4-1780	4-2220	0.379	299.5	-26.7	-1.63	1.372	91.8	0.886 8.758		356.2	494.7	1.000	---	1.95	0.535	149.1	178.4	1.2	0.505
4-1780	4-2240	0.366	297.7	-27.5	-1.72	1.360	91.3	0.852 6.772		357.3	497.6	1.001	---	2.03	0.503	147.2	178.3	1.3	0.472
4-1780	4-2260	0.355	296.1	-28.4	-1.83	1.350	90.8	0.824 5.678		358.3	500.4	1.001	---	2.11	0.474	145.2	178.1	1.4	0.442
4-1780	4-2280	0.345	294.6	-29.2	-1.94	1.341	90.4	0.799 4.992		359.2	503.0	1.001	---	2.20	0.448	143.1	177.8	1.5	0.415
4-1780	4-2300	0.337	293.2	-30.0	-2.06	1.333	90.0	0.779 4.524		359.9	506.6	1.001	---	2.30	0.425	140.9	177.5	1.7	0.390
4-1780	4-2320	0.331	292.1	-30.8	-2.20	1.326	89.7	0.761 4.188		0.6	148.1	---	---	2.41	0.404	138.6	177.0	1.9	0.367
4-1780	4-2340	0.325	291.2	-31.7	-2.35	1.321	89.5	0.746 3.937		1.1	150.5	---	---	2.54	0.385	136.3	176.5	2.1	0.346
4-1780	4-2360	0.321	290.4	-32.6	-2.51	1.316	89.3	0.733 3.745		1.6	152.7	---	---	2.68	0.368	133.9	175.8	2.4	0.328
4-1780	4-2380	0.317	289.9	-33.5	-2.70	1.311	89.2	0.721 3.594		1.9	154.9	---	---	2.85	0.352	131.4	175.1	2.7	0.311
4-1780	4-2400	0.314	289.6	-34.5	-2.91	1.308	89.1	0.712 3.474		2.2	157.0	---	---	3.04	0.339	128.9	174.2	3.0	0.295
4-1780	4-2420	0.312	289.5	-35.7	-3.15	1.304	89.0	0.704 3.377		2.3	158.9	---	---	3.26	0.327	126.4	173.3	3.4	0.281
4-1780	4-2440	0.311	289.6	-36.9	-3.44	1.302	89.0	0.697 3.298		2.4	160.8	---	---	3.52	0.316	123.8	172.2	3.9	0.269
4-1780	4-2460	0.310	289.9	-38.3	-3.77	1.299	89.0	0.690 3.233		2.4	162.6	---	---	3.83	0.306	121.2	171.1	4.4	0.258
4-1780	4-2480	0.310	290.5	-40.0	-4.16	1.297	89.1	0.685 3.180		2.3	164.3	---	---	4.21	0.298	118.6	169.8	5.0	0.248
4-1780	4-2500	0.311	291.3	-41.9	-4.65	1.296	89.1	0.681 3.136		2.1	166.0	---	---	4.67	0.291	115.9	168.6	5.7	0.240
4-1780	4-2520	0.313	292.5	-44.3	-5.25	1.294	89.3	0.677 3.100		1.8	167.5	---	---	5.25	0.285	113.3	167.2	6.6	0.232
4-1780	4-2540	0.318	294.0	-47.3	-6.02	1.293	89.4	0.674 3.071		1.5	169.0	---	---	6.00	0.279	110.8	165.9	7.7	0.226
4-1780	4-2560	0.325	296.1	-51.0	-7.06	1.292	89.5	0.671 3.047		1.1	170.5	---	---	7.01	0.275	108.2	164.5	9.1	0.222
4-1780	4-2580	0.338	299.2	-56.0	-8.51	1.291	89.7	0.669 3.027		0.7	171.8	---	---	8.45	0.271	105.7	163.1	11.0	0.219
4-1780	4-2600	0.361	304.5	-62.6	-10.71	1.291	89.9	0.668 3.012		0.2	173.2	---	---	10.62	0.268	103.3	161.7	13.7	0.218
4-1780	4-2620	0.408	316.9	-71.8	-14.40	1.290	90.1	0.666 3.000		359.7	534.4	1.001	---	14.29	0.266	100.9	160.4	17.8	0.223
4-1780	4-2640	0.519	15.9	-80.5	-21.82	1.290	90.4	0.665 2.990		359.1	535.6	1.001	---	21.69	0.264	98.6	159.0	24.7	0.241
4-1780	4-2660	0.871	88.1	-63.0	-42.42	1.289	90.5	0.664 2.984		358.7	536.8	1.001	---	42.27	0.262	96.3	157.3	34.4	0.321
4-1780	4-2680	1.371	156.7	83.9	72.36	1.289	91.4	0.664	2.979	356.5	537.8	1.000	---	-72.53	0.261	94.3	152.2	-31.6	0.456
4-1780	4-2700	0.654	283.4	57.1	29.86	1.289	91.5	0.664	2.977	356.3	538.9	1.000	---	-30.05	0.261	92.1	153.4	-27.7	0.268
4-1780	4-2720	0.453	289.6	37.1	17.45	1.289	91.7	0.664	2.976	355.7	539.9	1.000	---	-17.66	0.260	90.1	153.3	-19.1	0.226
4-1780	4-2740	0.382	293.2	24.4	12.17	1.289	92.0	0.664	2.977	354.9	540.9	1.000	4.955	-12.40	0.260	88.2	152.7	-13.8	0.213
4-1780	4-2760	0.350	296.0	15.8	9.29	1.289	92.4	0.665	2.980	354.0	541.9	0.999	4.960	-9.54	0.261	86.3	152.1	-10.5	0.209
4-1780	4-2780	0.334	298.5	9.9	7.48	1.289	92.8	0.665	2.983	353.1	542.8	0.998	4.968	-7.75	0.261	84.5	151.6	-8.3	0.207
4-1780	4-2800	0.326	300.8	5.6	6.24	1.290	93.1	0.666	2.988	352.2	543.6	0.997	4.978	-6.53	0.262	82.8	151.1	-6.7	0.207
4-1780	4-2820	0.322	303.0	2.4	5.33	1.290	93.5	0.667	2.994	351.2	544.5	0.996	4.991	-5.65	0.263	81.2	150.7	-5.6	0.208
4-1780	4-2840	0.320	305.2	0.0	4.65	1.290	93.9	0.668	3.000	350.2	545.3	0.995	5.005	-4.98	0.264	79.6	150.4	-4.7	0.209
4-1780	4-2860	0.320	307.2	-1.8	4.10	1.290	94.4	0.669	3.007	349.1	546.0	0.994	5.021	-4.46	0.265	78.1	150.2	-4.0	0.211
4-1780	4-2880	0.322	309.3	-3.3	3.66	1.291	94.8	0.671	3.016	348.0	546.8	0.992	5.039	-4.04	0.266	76.7	150.1	-3.4	0.213
4-1780	4-2900	0.324	311.3	-4.4	3.30	1.291	95.2	0.672	3.024	346.9	547.5	0.991	5.058	-3.69	0.268	75.3	150.1	-2.9	0.215
4-1780	4-2920	0.326	313.2	-5.2	2.99	1.292	95.7	0.674	3.034	345.8	548.2	0.989	5.078	-3.41	0.269	73.9	150.2	-2.5	0.217
4-1780	4-2940	0.330	315.2	-5.9	2.73	1.292	96.2	0.676	3.043	344.7	548.8	0.987	5.100	-3.16	0.271	72.6	150.4	-2.2	0.220
4-1780	4-2960	0.334	317.1	-6.4	2.50	1.292	96.7	0.678	3.054	343.5	549.5	0.985	5.123	-2.96	0.272	71.4	150.7	-1.9	0.223
4-1780	4-2980	0.338	319.0	-6.7	2.30	1.293	97.2	0.680	3.065	342.3	550.1	0.982	5.147	-2.78	0.274	70.2	151.0	-1.7	0.225
4-1780	4-3000	0.343	320.9	-7.0	2.12	1.293	97.7	0.682	3.076	341.1	550.7	0.979	5.173	-2.62	0.275	69.1	151.4	-1.5	0.228
4-1780	4-3020	0.348	322.7	-7.1	1.96	1.294	98.2	0.684	3.088	339.8	551.2	0.976	5.199	-2.49	0.277	68.0	151.9	-1.3	0.231
4-1780	4-3040	0.354	324.5	-7.2	1.82	1.294	98.7	0.686	3.099	338.6	551.8	0.973	5.226	-2.37	0.279	66.9	152.5	-1.2	0.234
4-1780	4-3060	0.360	326.2	-7.2	1.69	1.295	99.2	0.688	3.112	337.3	552.3	0.970	5.254	-2.26	0.280	65.9	153.1	-1.0	0.237
4-1780	4-3080	0.366	328.0	-7.1	1.57	1.295	99.8	0.691	3.124	336.0	552.8	0.966	5.283	-2.16	0.282	64.9	153.8	-0.9	0.241
4-1780	4-3100	0.373	329.7	-7.0	1.46	1.296	100.3	0.693	3.137	334.7	553.3	0.962	5.312	-2.08	0.284	63.9	154.5	-0.9	0.244
4-1780	4-3120	0.380	331.3	-6.9	1.36	1.296	100.9	0.696	3.150	333.3	553.7	0.958	5.343	-2.00	0.285	63.0	155.3	-0.8	0.247
4-1780	4-3140	0.387	332.9	-6.7	1.27	1.297	101.5	0.699	3.163	332.0	554.2	0.953	5.374	-1.93	0.287	62.1	156.2	-0.7	0.250
4-1780	4-3160	0.395	334.5	-6.5	1.18	1.297	102.0	0.702	3.177	330.6	554.6	0.948	5.406	-1.87	0.288	61.2	157.0	-0.7	0.253
4-1780	4-3180	0.403	336.1	-6.3	1.10	1.298	102.6	0.704	3.191	329.3	555.0	0.943	5.438	-1.81	0.290	60.3	158.0	-0.6	0.257
4-1780	4-3200	0.411	337.6	-6.0	1.03	1.298	103.2	0.707	3.204	327.9	555.4	0.938	5.471	-1.76	0.292	59.5	158.9	-0.6	0.260
4-1780	4-3220	0.420	339.1	-5.7	0.95	1.299	103.8	0.710	3.218	326.5	555.7	0.932	5.505	-1.71	0.293	58.7	159.9	-0.6	0.263
4-1780	4-3240	0.429	340.5	-5.4	0.89	1.299	104.5	0.714	3.233	325.0	556.1	0.926	5.539	-1.67	0.295	57.9	161.0	-0.6	0.267
4-1780	4-3260	0.438	341.9	-5.1	0.82	1.300	105.1	0.717	3.247	323.6	556.4	0.920	5.574	-1.63	0.296	57.1	162.1	-0.6	0.270

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THETI	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1780	4-3280	0.448	343.3	-4.8	0.76	1.300	105.7	0.720	3.261	322.2	556.7	0.913	5.609	-1.59	0.298	56.3	163.2	-0.6	0.273
4-1780	4-3300	0.457	344.6	-4.5	0.70	1.301	106.4	0.723	3.276	320.7	557.0	0.906	5.645	-1.56	0.299	55.6	164.3	-0.6	0.277
4-1780	4-3320	0.468	346.0	-4.1	0.65	1.301	107.0	0.727	3.290	319.2	557.3	0.899	5.682	-1.53	0.301	54.8	165.5	-0.6	0.280
4-1780	4-3340	0.478	347.2	-3.8	0.59	1.302	107.7	0.730	3.305	317.8	557.5	0.892	5.719	-1.50	0.302	54.1	166.7	-0.6	0.283
4-1780	4-3360	0.488	348.5	-3.5	0.54	1.303	108.3	0.734	3.320	316.3	557.8	0.884	5.756	-1.47	0.303	53.4	167.9	-0.6	0.286
4-1780	4-3380	0.499	349.7	-3.1	0.49	1.303	109.0	0.737	3.335	314.8	558.0	0.876	5.794	-1.45	0.305	52.6	169.1	-0.6	0.290
4-1790	4-2070	0.594	311.2	-20.7	-0.97	1.581	93.5	1.509-1.968		354.1	469.4	1.001	---	1.38	0.951	160.7	177.4	0.6	0.925
4-1790	4-2090	0.544	308.8	-21.6	-1.02	1.535	92.5	1.364-2.754		355.7	472.8	1.002	---	1.40	0.872	159.5	177.7	0.6	0.846
4-1790	4-2110	0.503	306.3	-22.5	-1.07	1.496	91.5	1.247-4.058		357.4	476.2	1.003	---	1.43	0.803	158.2	178.0	0.7	0.776
4-1790	4-2130	0.470	303.7	-23.4	-1.12	1.464	90.5	1.152-6.595		359.0	479.6	1.004	---	1.45	0.742	156.8	178.3	0.7	0.715
4-1790	4-2150	0.442	301.1	-24.3	-1.17	1.437	89.7	1.07413.557		0.6	123.0	---	---	1.48	0.687	155.3	178.5	0.7	0.661
4-1790	4-2170	0.420	298.5	-25.1	-1.23	1.415	88.9	1.01005.066		2.1	126.3	---	---	1.51	0.639	153.7	178.6	0.8	0.612
4-1790	4-2190	0.401	296.0	-25.8	-1.29	1.396	88.3	0.95622.730		3.5	129.5	---	---	1.54	0.596	152.0	178.7	0.8	0.568
4-1790	4-2210	0.386	293.6	-26.6	-1.35	1.380	87.7	0.91111.253		4.9	132.6	---	---	1.58	0.558	150.3	178.7	0.9	0.529
4-1790	4-2230	0.373	291.4	-27.2	-1.41	1.366	87.2	0.873 7.897		6.1	135.7	---	---	1.62	0.523	148.4	178.6	1.0	0.493
4-1790	4-2250	0.363	289.4	-27.8	-1.48	1.354	86.7	0.841 6.306		7.2	138.6	---	---	1.66	0.492	146.5	178.4	1.1	0.461
4-1790	4-2270	0.354	287.6	-28.4	-1.55	1.344	86.3	0.814 5.386		8.2	141.4	---	---	1.71	0.464	144.4	178.2	1.2	0.432
4-1790	4-2290	0.347	285.9	-28.9	-1.63	1.335	86.0	0.792 4.790		9.1	144.1	---	---	1.77	0.439	142.3	177.9	1.3	0.405
4-1790	4-2310	0.341	284.6	-29.5	-1.71	1.328	85.7	0.772 4.377		9.9	146.7	---	---	1.82	0.416	140.1	177.5	1.4	0.381
4-1790	4-2330	0.335	283.4	-30.0	-1.80	1.322	85.5	0.755 4.076		10.5	149.1	---	---	1.89	0.396	137.8	176.9	1.6	0.359
4-1790	4-2350	0.331	282.4	-30.5	-1.89	1.316	85.3	0.741 3.850		11.1	151.5	---	---	1.96	0.377	135.4	176.3	1.7	0.339
4-1790	4-2370	0.327	281.6	-31.0	-1.99	1.311	85.2	0.729 3.675		11.5	153.7	---	---	2.04	0.361	133.0	175.6	1.9	0.321
4-1790	4-2390	0.324	281.1	-31.6	-2.10	1.307	85.1	0.719 3.537		11.8	155.9	---	---	2.13	0.346	130.5	174.8	2.1	0.304
4-1790	4-2410	0.321	280.7	-32.1	-2.22	1.304	85.0	0.710 3.427		12.0	157.9	---	---	2.23	0.333	128.0	173.9	2.4	0.289
4-1790	4-2430	0.319	280.6	-32.7	-2.36	1.301	85.0	0.702 3.338		12.1	159.8	---	---	2.34	0.322	125.4	172.9	2.6	0.276
4-1790	4-2450	0.317	280.6	-33.4	-2.50	1.298	85.0	0.695 3.265		12.1	161.7	---	---	2.46	0.311	122.8	171.8	2.9	0.264
4-1790	4-2470	0.315	280.8	-34.1	-2.67	1.296	85.1	0.690 3.206		12.1	163.4	---	---	2.60	0.302	120.1	170.6	3.2	0.253
4-1790	4-2490	0.313	281.2	-34.9	-2.85	1.294	85.2	0.685 3.157		11.9	165.1	---	---	2.77	0.295	117.5	169.3	3.5	0.244
4-1790	4-2510	0.312	281.7	-35.8	-3.06	1.293	85.3	0.681 3.117		11.7	166.7	---	---	2.96	0.288	114.9	168.0	3.9	0.236
4-1790	4-2530	0.311	282.4	-36.8	-3.30	1.291	85.4	0.677 3.084		11.4	168.2	---	---	3.17	0.282	112.3	166.7	4.3	0.228
4-1790	4-2550	0.311	283.3	-37.9	-3.58	1.290	85.6	0.674 3.058		11.0	169.7	---	---	3.43	0.277	109.7	165.3	4.8	0.222
4-1790	4-2570	0.310	284.3	-39.3	-3.91	1.289	85.7	0.672 3.036		10.6	171.1	---	---	3.74	0.273	107.2	163.9	5.3	0.217
4-1790	4-2590	0.311	285.6	-40.8	-4.30	1.289	86.0	0.669 3.019		10.1	172.4	---	---	4.11	0.270	104.7	162.6	6.0	0.213
4-1790	4-2610	0.312	287.1	-42.7	-4.78	1.288	86.2	0.668 3.005		9.5	173.7	---	---	4.57	0.267	102.3	161.2	6.7	0.210
4-1790	4-2630	0.315	288.8	-45.0	-5.38	1.288	86.4	0.666 2.995		8.9	174.9	---	---	5.16	0.265	100.0	159.9	7.6	0.207
4-1790	4-2650	0.319	290.9	-47.9	-6.16	1.287	86.7	0.665 2.987		8.3	176.1	---	---	5.91	0.263	97.7	158.7	8.6	0.206
4-1790	4-2670	0.327	293.5	-51.7	-7.21	1.287	87.0	0.664 2.982		7.6	177.2	---	---	6.94	0.262	95.5	157.6	10.0	0.205
4-1790	4-2690	0.340	297.0	-56.7	-8.69	1.287	87.3	0.664 2.979		6.8	178.3	---	---	8.41	0.261	93.4	156.6	11.9	0.206
4-1790	4-2710	0.364	302.5	-63.6	-10.97	1.287	87.6	0.664 2.977		6.1	179.3	---	---	10.66	0.261	91.4	155.7	14.6	0.210
4-1790	4-2730	0.414	315.3	-73.3	-14.88	1.287	87.9	0.663 2.978		5.3	180.3	---	4.953	14.55	0.261	89.4	155.1	18.8	0.218
4-1790	4-2750	0.538	29.9	-82.1	-23.04	1.287	88.2	0.663 2.980		4.5	181.3	---	4.957	22.70	0.261	87.5	155.0	25.9	0.242
4-1790	4-2770	0.958	98.9	-59.9	-47.54	1.287	88.5	0.664 2.983		3.9	182.2	---	4.963	47.18	0.261	85.7	156.5	35.3	0.342
4-1790	4-2790	1.192	219.2	79.4	61.36	1.287	89.4	0.664 2.987		1.6	183.0	---	4.971	-61.75	0.262	84.1	154.0	-32.9	0.408
4-1790	4-2810	0.590	282.5	52.1	26.16	1.288	89.6	0.665 2.993		1.1	183.9	---	4.982	-26.57	0.263	82.4	151.6	-25.5	0.258
4-1790	4-2830	0.426	290.4	33.6	15.70	1.288	89.9	0.665 2.999		0.2	184.7	---	4.995	-16.12	0.264	80.8	151.0	-17.2	0.226
4-1790	4-2850	0.366	294.8	21.8	11.06	1.288	90.3	0.666 3.007		359.2	545.5	1.004	5.009	-11.50	0.265	79.3	150.7	-12.3	0.218
4-1790	4-2870	0.339	298.2	13.9	8.47	1.289	90.7	0.667 3.015		358.2	546.2	1.004	5.025	-8.93	0.266	77.9	150.5	-9.3	0.215
4-1790	4-2890	0.325	301.2	8.4	6.82	1.289	91.2	0.668 3.023		357.1	547.0	1.004	5.043	-7.30	0.268	76.5	150.5	-7.4	0.215
4-1790	4-2910	0.318	303.9	4.5	5.67	1.289	91.6	0.669 3.033		356.0	547.7	1.003	5.062	-6.18	0.269	75.1	150.5	-6.0	0.216
4-1790	4-2930	0.315	306.4	1.6	4.84	1.290	92.1	0.671 3.043		354.9	548.4	1.002	5.083	-5.36	0.271	73.9	150.7	-4.9	0.218
4-1790	4-2950	0.313	308.9	-0.5	4.19	1.290	92.5	0.672 3.053		353.7	549.0	1.002	5.104	-4.74	0.272	72.6	150.9	-4.1	0.220
4-1790	4-2970	0.313	311.3	-2.2	3.68	1.291	93.0	0.673 3.064		352.5	549.6	1.001	5.127	-4.25	0.274	71.5	151.2	-3.5	0.222
4-1790	4-2990	0.314	313.6	-3.4	3.27	1.291	93.5	0.675 3.075		351.3	550.2	0.999	5.151	-3.86	0.276	70.3	151.6	-3.0	0.224
4-1790	4-3010	0.317	315.9	-4.3	2.93	1.292	94.0	0.677 3.087		350.1	550.8	0.998	5.176	-3.53	0.277	69.3	152.0	-2.6	0.227
4-1790	4-3030	0.319	318.1	-5.0	2.64	1.292	94.5	0.678 3.099		348.9	551.4	0.996	5.201	-3.26	0.279	68.2	152.5	-2.3	0.230
4-1790	4-3050	0.322	320.3	-5.4	2.39	1.293	95.0	0.680 3.111		347.6	551.9	0.995	5.228	-3.04	0.281	67.2	153.1	-2.0	0.232
4-1790	4-3070	0.326	322.4	-5.8	2.17	1.293	95.5	0.682 3.124		346.3	552.4	0.993	5.255	-2.84	0.282	66.2	153.8	-1.8	0.235
4-1790	4-3090	0.331	324.5	-6.0	1.98	1.294	96.1	0.684 3.137		345.1	552.9	0.990	5.283	-2.67	0.284	65.3	154.5	-1.6	0.238
4-1790	4-3110	0.335	326.6	-6.0	1.81	1.294	96.6	0.686 3.150		343.7	553.4	0.988	5.312	-2.52	0.286	64.4	155.2	-1.4	0.241
4-1790	4-3130	0.340	328.6	-6.1	1.66	1.295	97.2	0.689 3.163		342.4	553.9	0.985	5.342	-2.39	0.287	63.5	156.0	-1.3	0.244
4-1790	4-3150	0.346	330.6	-6.0	1.53	1.295	97.7	0.691 3.177		341.1	554.3	0.982	5.372	-2.28	0.289	62.7	156.8	-1.2	0.247
4-1790	4-3170	0.352	332.5	-5.9	1.40	1.296	98.3	0.693 3.191		339.7	554.7	0.979	5.403	-2.18	0.290	61.8	157.7	-1.1	0.250
4-1790	4-3190	0.358	334.4	-5.7	1.29	1.296	98.9	0.696 3.205		338.4	555.2	0.975	5.435	-2.09	0.292	61.0	158.7	-1.0	0.253
4-1790	4-3210	0.365	336.2	-5.5	1.19	1.297	99.4	0.698 3.219		337.0	555.5	0.971	5.467	-2.00	0.294	60.2	159.6	-0.9	0.256
4-1790	4-3230	0.372	338.0	-5.2	1.09	1.297	100.0	0.701 3.233		335.6	555.9	0.967	5.499	-1.93	0.295	59.5	160.6	-0.9	0.259
4-1790	4-3250	0.379	339.7	-4.9	1.00	1.298	100.6	0.704 3.248		334.2	556.3	0.963	5.532	-1.86	0.297	58.7	161.7	-0.8	0.262
4-1790	4-3270	0.387	341.4	-4.6	0.92	1.298	101.2	0.706 3.262		332.8	556.6	0.958	5.566	-1.80	0.298	58.0	162.7	-0.8	0.265
4-1790	4-3290	0.395	343.1	-4.3	0.84	1.299	101.8	0.709 3.277		331.4	557.0	0.953	5.600	-1.75	0.300	57.3	163.8	-0.8	0.268
4-1790	4-3310	0.403	344.7	-3.9	0.77	1.299	102.5	0.712 3.291		329.9	557.3	0.948	5.635	-1.70	0.301	56.6	164.9	-0.8	0.271
4-1790	4-3330	0.412	346.2	-3.5	0.70	1.300	103.1	0.715 3.306		328.5	557.6	0.942	5.670	-1.65	0.303	55.9	166.1	-0.8	0.274
4-1790	4-3350	0.421	347.8	-3.2	0.64	1.300	103.7	0.718 3.321		327.0	557.8	0.936	5.706	-1.61	0.304	55.2	167.3	-0.8	0.277
4-1790	4-3370	0.430	349.3	-2.8	0.58	1.301	104.4	0.721 3.336		325.5	558.1	0.930	5.742	-1.57	0.305	54.5	168.5	-0.8	0.280
4-1790	4-3390	0.439	350.7	-2.4	0.52	1.301	105.0	0.724 3.351		324.1	558.4	0.924	5.779	-1.54	0.307	53.9	169.7	-0.8	0.283
4-1800	4-2060	0.626	307.7	-21.3	-0.89	1.619	88.7	1.638-1.576		2.1	106.8	---	---	1.21	1.015	161.4	177.6	0.5	0.988
4-1800	4-2080	0.572	304.9	-22.2	-0.93	1.565	87.7	1.464-2.168		3.9	110.3	---	---	1.22	0.926	160.3	177.9	0.5	0.900
4-1800	4-2100	0.529	301.9	-23.1	-0.97	1.520	86.8	1.325-3.092		5.7	113.9	---	---	1.23	0.849	159.0	178.1	0.6	0.823
4-1800	4-2120	0.495	298.9	-23.9	-1.01	1.483	85.9	1.213-4.699		7.4	117.4	---	---	1.24	0.782	157.7	178.4	0.6	0.755
4-1800	4-2140	0.467	295.9	-24.6	-1.05	1.452	85.2	1.123-8.143		9.2	120.9	---	---	1.26	0.722	156.3	178.6	0.6	0.696
4-1800	4-2160	0.445	293.0	-25.3	-1.10	1.427	84.5	1.04920.423		10.8	124.4	---	---	1.27	0.669	154.8	178.7	0.6	0.643
4-1800	4-2180	0.427	290.2	-25.9	-1.14	1.405	83.8	0.98883.361		12.4	127.8	---	---	1.29	0.622	153.2	178.7	0.7	0.596

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1800	4-2200	0.412	287.6	-26.4	-1.18	1.387	83.3	0.93815	9.921	13.9	131.0	---	---	1.31	0.580	151.5	178.7	0.7	0.553
4-1800	4-2220	0.401	285.2	-26.9	-1.23	1.372	82.8	0.896	9.492	15.3	134.2	---	---	1.33	0.543	149.7	178.7	0.8	0.515
4-1800	4-2240	0.391	283.1	-27.3	-1.28	1.359	82.4	0.861	7.085	16.5	137.3	---	---	1.36	0.509	147.8	178.5	0.8	0.480
4-1800	4-2260	0.383	281.1	-27.7	-1.33	1.347	82.0	0.831	5.835	17.7	140.2	---	---	1.38	0.479	145.8	178.3	0.9	0.449
4-1800	4-2280	0.377	279.5	-28.0	-1.38	1.338	81.7	0.806	5.075	18.7	143.0	---	---	1.41	0.452	143.7	178.0	1.0	0.421
4-1800	4-2300	0.371	278.0	-28.4	-1.44	1.330	81.4	0.785	4.570	19.5	145.7	---	---	1.44	0.427	141.6	177.5	1.1	0.395
4-1800	4-2320	0.366	276.8	-28.6	-1.50	1.323	81.2	0.767	4.212	20.3	148.2	---	---	1.48	0.405	139.3	177.0	1.2	0.372
4-1800	4-2340	0.362	275.8	-28.9	-1.56	1.317	81.1	0.752	3.948	20.9	150.6	---	---	1.52	0.386	137.0	176.4	1.3	0.351
4-1800	4-2360	0.359	275.0	-29.2	-1.62	1.311	80.9	0.739	3.747	21.3	152.9	---	---	1.56	0.368	134.5	175.7	1.5	0.331
4-1800	4-2380	0.355	274.4	-29.5	-1.69	1.307	80.9	0.728	3.591	21.7	155.1	---	---	1.61	0.352	132.1	175.0	1.6	0.314
4-1800	4-2400	0.352	274.0	-29.8	-1.76	1.303	80.8	0.718	3.467	22.0	157.2	---	---	1.66	0.338	129.5	174.1	1.8	0.298
4-1800	4-2420	0.350	273.7	-30.2	-1.84	1.300	80.8	0.710	3.368	22.1	159.2	---	---	1.71	0.326	126.9	173.1	1.9	0.284
4-1800	4-2440	0.347	273.6	-30.5	-1.92	1.297	80.9	0.703	3.288	22.2	161.0	---	---	1.77	0.315	124.3	172.0	2.1	0.271
4-1800	4-2460	0.344	273.7	-30.9	-2.01	1.295	80.9	0.697	3.223	22.1	162.8	---	---	1.84	0.305	121.7	170.9	2.3	0.260
4-1800	4-2480	0.342	273.9	-31.3	-2.11	1.293	81.0	0.692	3.169	22.0	164.5	---	---	1.92	0.296	119.0	169.6	2.5	0.250
4-1800	4-2500	0.340	274.3	-31.7	-2.21	1.291	81.1	0.687	3.126	21.8	166.1	---	---	2.00	0.289	116.3	168.4	2.8	0.241
4-1800	4-2520	0.337	274.8	-32.2	-2.33	1.290	81.3	0.683	3.090	21.5	167.7	---	---	2.10	0.283	113.7	167.0	3.0	0.233
4-1800	4-2540	0.335	275.4	-32.7	-2.45	1.288	81.5	0.680	3.061	21.1	169.1	---	---	2.20	0.278	111.1	165.7	3.3	0.226
4-1800	4-2560	0.333	276.1	-33.3	-2.59	1.287	81.7	0.677	3.037	20.7	170.5	---	---	2.32	0.273	108.5	164.3	3.6	0.221
4-1800	4-2580	0.331	277.0	-33.9	-2.75	1.287	81.9	0.675	3.018	20.2	171.9	---	---	2.46	0.269	106.0	163.0	3.9	0.216
4-1800	4-2600	0.329	278.0	-34.7	-2.93	1.286	82.1	0.673	3.003	19.7	173.2	---	---	2.61	0.266	103.6	161.6	4.2	0.212
4-1800	4-2620	0.327	279.1	-35.5	-3.13	1.286	82.4	0.671	2.992	19.1	174.4	---	---	2.79	0.264	101.2	160.3	4.5	0.208
4-1800	4-2640	0.325	280.4	-36.4	-3.36	1.285	82.6	0.669	2.984	18.4	175.6	---	---	3.01	0.262	98.9	159.1	4.9	0.206
4-1800	4-2660	0.324	281.8	-37.5	-3.62	1.285	82.9	0.668	2.978	17.7	176.7	---	---	3.25	0.261	96.6	157.9	5.3	0.204
4-1800	4-2680	0.323	283.3	-38.7	-3.94	1.285	83.2	0.667	2.974	16.9	177.8	---	---	3.55	0.260	94.5	156.8	5.8	0.203
4-1800	4-2700	0.323	285.0	-40.2	-4.32	1.285	83.5	0.667	2.972	16.2	178.8	---	---	3.91	0.260	92.4	155.8	6.3	0.202
4-1800	4-2720	0.323	286.9	-41.9	-4.79	1.285	83.9	0.666	2.973	15.3	179.8	---	---	4.36	0.260	90.4	154.9	6.9	0.202
4-1800	4-2740	0.325	289.0	-44.1	-5.38	1.285	84.2	0.666	2.974	14.5	180.8	---	4.955	4.93	0.260	88.5	154.1	7.7	0.203
4-1800	4-2760	0.328	291.4	-46.9	-6.14	1.285	84.6	0.666	2.977	13.6	181.7	---	4.959	5.67	0.260	86.7	153.5	8.6	0.204
4-1800	4-2780	0.334	294.3	-50.6	-7.17	1.285	85.0	0.666	2.982	12.6	182.6	---	4.967	6.69	0.261	84.9	152.9	9.9	0.206
4-1800	4-2800	0.346	298.0	-55.5	-8.66	1.285	85.3	0.666	2.987	11.7	183.4	---	4.976	8.16	0.262	83.3	152.6	11.6	0.209
4-1800	4-2820	0.369	303.6	-62.5	-10.97	1.286	85.7	0.666	2.994	10.7	184.2	---	4.987	10.45	0.263	81.7	152.4	14.2	0.213
4-1800	4-2840	0.420	315.7	-72.6	-15.04	1.286	86.1	0.666	3.001	9.7	185.0	---	5.001	14.50	0.264	80.1	152.6	18.4	0.223
4-1800	4-2860	0.556	35.8	-82.7	-24.00	1.286	86.5	0.667	3.009	8.7	185.8	---	5.016	23.44	0.265	78.7	153.8	25.8	0.250
4-1800	4-2880	1.065	108.6	-56.7	-53.87	1.287	86.8	0.668	3.018	8.0	186.5	---	5.033	53.29	0.267	77.3	159.0	35.1	0.374
4-1800	4-2900	1.004	245.5	71.7	50.25	1.287	87.7	0.668	3.027	5.7	187.2	---	5.050	-50.84	0.268	76.0	155.4	-32.5	0.364
4-1800	4-2920	0.527	285.0	45.7	22.25	1.287	88.0	0.669	3.037	4.9	187.9	---	5.069	-22.86	0.270	74.7	151.8	-22.1	0.253
4-1800	4-2940	0.399	293.4	28.8	13.66	1.288	88.5	0.670	3.048	3.8	188.6	---	5.090	-14.30	0.272	73.5	151.3	-14.6	0.232
4-1800	4-2960	0.352	298.2	18.0	9.71	1.288	88.9	0.671	3.059	2.7	189.2	---	5.112	-10.36	0.273	72.3	151.4	-10.5	0.227
4-1800	4-2980	0.330	301.9	11.0	7.45	1.289	89.4	0.672	3.070	1.5	189.8	---	5.134	-8.12	0.275	71.2	151.6	-7.9	0.226
4-1800	4-3000	0.319	305.2	6.1	5.99	1.289	89.9	0.673	3.082	0.3	190.4	---	5.158	-6.68	0.277	70.2	152.0	-6.2	0.227
4-1800	4-3020	0.313	308.1	2.8	4.97	1.290	90.4	0.675	3.095	359.1	551.0	1.007	5.182	-5.68	0.278	69.1	152.5	-5.1	0.228
4-1800	4-3040	0.310	310.9	0.3	4.22	1.290	90.9	0.676	3.107	357.9	551.6	1.006	5.208	-4.94	0.280	68.1	153.0	-4.2	0.230
4-1800	4-3060	0.309	313.6	-1.5	3.64	1.291	91.4	0.678	3.120	356.6	552.1	1.006	5.234	-4.38	0.282	67.2	153.7	-3.5	0.232
4-1800	4-3080	0.309	316.2	-2.8	3.17	1.291	91.9	0.679	3.133	355.4	552.6	1.005	5.261	-3.94	0.284	66.3	154.3	-3.0	0.235
4-1800	4-3100	0.310	318.7	-3.7	2.80	1.292	92.4	0.681	3.147	354.1	553.1	1.005	5.288	-3.58	0.285	65.4	155.0	-2.6	0.237
4-1800	4-3120	0.312	321.2	-4.4	2.48	1.292	92.9	0.682	3.160	352.8	553.6	1.003	5.317	-3.28	0.287	64.5	155.8	-2.3	0.240
4-1800	4-3140	0.315	323.6	-4.8	2.22	1.293	93.5	0.684	3.174	351.4	554.0	1.002	5.346	-3.04	0.289	63.7	156.6	-2.0	0.243
4-1800	4-3160	0.318	325.9	-5.1	1.99	1.293	94.0	0.686	3.188	350.1	554.5	1.001	5.375	-2.83	0.290	62.9	157.5	-1.8	0.245
4-1800	4-3180	0.321	328.2	-5.2	1.79	1.294	94.6	0.688	3.202	348.8	554.9	0.999	5.405	-2.65	0.292	62.1	158.4	-1.6	0.248
4-1800	4-3200	0.325	330.5	-5.2	1.61	1.295	95.1	0.690	3.216	347.4	555.3	0.997	5.436	-2.49	0.294	61.4	159.3	-1.5	0.251
4-1800	4-3220	0.330	332.7	-5.2	1.46	1.295	95.7	0.692	3.231	346.0	555.7	0.995	5.467	-2.35	0.295	60.7	160.3	-1.4	0.253
4-1800	4-3240	0.335	334.8	-5.0	1.32	1.296	96.3	0.694	3.246	344.7	556.1	0.992	5.499	-2.24	0.297	59.9	161.3	-1.3	0.256
4-1800	4-3260	0.340	336.9	-4.8	1.20	1.296	96.9	0.697	3.260	343.3	556.5	0.989	5.531	-2.13	0.298	59.2	162.3	-1.2	0.259
4-1800	4-3280	0.346	338.9	-4.5	1.08	1.297	97.4	0.699	3.275	341.9	556.8	0.986	5.564	-2.03	0.300	58.6	163.4	-1.1	0.261
4-1800	4-3300	0.352	340.9	-4.2	0.98	1.297	98.0	0.701	3.290	340.4	557.2	0.983	5.597	-1.95	0.301	57.9	164.5	-1.1	0.264
4-1800	4-3320	0.358	342.9	-3.9	0.88	1.298	98.6	0.704	3.305	339.0	557.5	0.979	5.631	-1.87	0.303	57.2	165.6	-1.0	0.267
4-1800	4-3340	0.365	344.8	-3.5	0.79	1.298	99.3	0.706	3.320	337.6	557.8	0.975	5.665	-1.81	0.304	56.6	166.7	-1.0	0.270
4-1800	4-3360	0.372	346.6	-3.1	0.71	1.299	99.9	0.709	3.335	336.2	558.1	0.971	5.699	-1.74	0.306	56.0	167.9	-1.0	0.272
4-1800	4-3380	0.380	348.4	-2.7	0.63	1.299	100.5	0.712	3.350	334.7	558.4	0.967	5.734	-1.69	0.307	55.4	169.1	-1.0	0.275
4-1800	4-3400	0.388	350.1	-2.2	0.56	1.300	101.1	0.714	3.366	333.2	558.7	0.962	5.770	-1.64	0.308	54.7	170.3	-1.0	0.278
4-1810	4-2070	0.626	300.7	-22.7	-0.88	1.599	82.4	1.571	-1.742	12.4	108.3	---	---	1.06	0.985	161.2	177.9	0.5	0.959
4-1810	4-2090	0.580	297.4	-23.5	-0.92	1.547	81.6	1.407	-2.435	14.3	112.0	---	---	1.06	0.899	160.0	178.1	0.5	0.873
4-1810	4-2110	0.543	294.2	-24.2	-0.95	1.504	80.9	1.277	-3.562	16.3	115.7	---	---	1.07	0.824	158.8	178.3	0.5	0.799
4-1810	4-2130	0.515	291.1	-24.8	-0.98	1.469	80.2	1.173	-5.672	18.2	119.4	---	---	1.07	0.758	157.4	178.4	0.5	0.734
4-1810	4-2150	0.492	288.1	-25.4	-1.02	1.440	79.6	1.089	10.943	20.0	123.0	---	---	1.08	0.700	156.0	178.5	0.5	0.676
4-1810	4-2170	0.474	285.3	-25.8	-1.05	1.415	79.0	1.021	46.003	21.8	126.5	---	---	1.09	0.649	154.4	178.6	0.6	0.625
4-1810	4-2190	0.460	282.7	-26.2	-1.09	1.395	78.5	0.965	27.957	23.4	129.9	---	---	1.10	0.603	152.8	178.6	0.6	0.579
4-1810	4-2210	0.449	280.3	-26.5	-1.12	1.378	78.1	0.919	11.952	24.9	133.3	---	---	1.11	0.562	151.1	178.5	0.6	0.538
4-1810	4-2230	0.440	278.3	-26.7	-1.16	1.363	77.7	0.881	8.082	26.3	136.4	---	---	1.12	0.526	149.2	178.3	0.7	0.501
4-1810	4-2250	0.432	276.4	-27.0	-1.20	1.351	77.4	0.849	6.353	27.5	139.5	---	---	1.13	0.493	147.3	178.1	0.7	0.468
4-1810	4-2270	0.426	274.8	-27.2	-1.24	1.340	77.1	0.823	5.381	28.6	142.4	---	---	1.15	0.464	145.3	177.7	0.8	0.437
4-1810	4-2290	0.421	273.5	-27.3	-1.28	1.331	76.9	0.800	4.764	29.6	145.1	---	---	1.16	0.437	143.1	177.3	0.9	0.410
4-1810	4-2310	0.416	272.4	-27.5	-1.32	1.323	76.7	0.782	4.341	30.4	147.7	---	---	1.18	0.414	140.9	176.8	1.0	0.385
4-1810	4-2330	0.412	271.5	-27.7	-1.36	1.317	76.6	0.765	4.036	31.0	150.2	---	---	1.20	0.392	138.6	176.2	1.1	0.363
4-1810	4-2350	0.408	270.7	-27.8	-1.41	1.311	76.5	0.752	3.808	31.6	152.5	---	---	1.23	0.373	136.2	175.5	1.2	0.343
4-1810	4-2370	0.405	270.2	-28.0	-1.45	1.306	76.5	0.740	3.633	32.0	154.8	---	---	1.25	0.356	133.7	174.7	1.3	0.324
4-1810	4-2390	0.402	269.8	-28.2	-1.50	1.302	76.5	0.730	3.496	32.2	156.9	---	---	1.28	0.341	131.1	173.9	1.4	0.308
4-1810	4-2410	0.399	269.5	-28.4	-1.55	1.299	76.5	0.722	3.388	32.4	158.9	---	---	1.31	0.328	128.5	172.9	1.5	0.293
4-1810	4-2430	0.395	269.4	-28.6	-1.60	1.296	76.5	0.714	3.300	32.5	160.7	---	---	1.34	0.316	125.9	171.8	1.7	0.279

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1810	4-245C	0.392	269.5	-28.8	-1.66	1.293	76.6	0.708	3.229	32.4	162.5	---	---	1.37	0.306	123.2	170.7	1.8	0.267
4-1810	4-247C	0.389	269.6	-29.0	-1.72	1.291	76.7	0.702	3.172	32.3	164.2	---	---	1.41	0.297	120.5	169.5	2.0	0.257
4-1810	4-249C	0.386	269.9	-29.2	-1.78	1.289	76.9	0.697	3.125	32.1	165.8	---	---	1.45	0.289	117.8	168.3	2.1	0.247
4-1810	4-251C	0.383	270.3	-29.5	-1.85	1.288	77.0	0.693	3.086	31.8	167.4	---	---	1.50	0.282	115.1	167.0	2.3	0.239
4-1810	4-253C	0.380	270.8	-29.8	-1.92	1.286	77.2	0.689	3.055	31.5	168.8	---	---	1.55	0.276	112.4	165.6	2.5	0.232
4-1810	4-255C	0.376	271.3	-30.1	-1.99	1.285	77.4	0.686	3.030	31.0	170.2	---	---	1.61	0.272	109.8	164.3	2.7	0.225
4-1810	4-257C	0.373	272.0	-30.4	-2.08	1.284	77.7	0.684	3.010	30.5	171.6	---	---	1.67	0.268	107.2	162.9	2.8	0.220
4-1810	4-259C	0.370	272.8	-30.8	-2.16	1.284	77.9	0.681	2.994	30.0	172.8	---	---	1.74	0.264	104.7	161.6	3.0	0.216
4-1810	4-261C	0.366	273.7	-31.2	-2.26	1.283	78.2	0.679	2.982	29.3	174.1	---	---	1.82	0.262	102.2	160.3	3.2	0.212
4-1810	4-263C	0.363	274.7	-31.6	-2.37	1.283	78.5	0.677	2.973	28.7	175.2	---	---	1.91	0.260	99.8	159.1	3.4	0.209
4-1810	4-265C	0.360	275.7	-32.1	-2.48	1.282	78.8	0.676	2.967	28.0	176.3	---	---	2.00	0.259	97.5	157.9	3.6	0.207
4-1810	4-267C	0.356	276.9	-32.6	-2.61	1.282	79.1	0.675	2.963	27.2	177.4	---	---	2.12	0.258	95.3	156.8	3.9	0.205
4-1810	4-269C	0.353	278.1	-33.1	-2.76	1.282	79.4	0.673	2.961	26.4	178.5	---	---	2.24	0.257	93.2	155.8	4.1	0.204
4-1810	4-271C	0.350	279.5	-33.8	-2.92	1.282	79.8	0.673	2.961	25.6	179.4	---	---	2.39	0.257	91.1	154.9	4.3	0.203
4-1810	4-273C	0.347	280.9	-34.5	-3.10	1.282	80.1	0.672	2.963	24.7	180.4	---	4.954	2.55	0.257	89.2	154.1	4.6	0.203
4-1810	4-275C	0.344	282.4	-35.3	-3.32	1.282	80.5	0.671	2.966	23.8	181.3	---	4.957	2.75	0.258	87.3	153.4	4.9	0.203
4-1810	4-277C	0.342	284.1	-36.2	-3.57	1.283	80.9	0.671	2.970	22.8	182.2	---	4.963	2.98	0.259	85.6	152.7	5.2	0.204
4-1810	4-279C	0.340	285.9	-37.3	-3.86	1.283	81.3	0.671	2.976	21.8	183.0	---	4.972	3.26	0.260	83.9	152.2	5.5	0.205
4-1810	4-281C	0.338	287.8	-38.6	-4.22	1.283	81.7	0.670	2.983	20.8	183.9	---	4.982	3.60	0.261	82.2	151.9	6.0	0.206
4-1810	4-283C	0.337	289.9	-40.2	-4.66	1.283	82.1	0.670	2.990	19.8	184.6	---	4.995	4.02	0.262	80.7	151.6	6.5	0.208
4-1810	4-285C	0.337	292.2	-42.2	-5.21	1.284	82.5	0.671	2.998	18.8	185.4	---	5.009	4.56	0.263	79.2	151.4	7.1	0.210
4-1810	4-287C	0.339	294.8	-44.7	-5.93	1.284	82.9	0.671	3.007	17.7	186.1	---	5.025	5.26	0.265	77.8	151.4	7.9	0.212
4-1810	4-289C	0.344	297.8	-48.1	-6.92	1.285	83.4	0.671	3.017	16.6	186.9	---	5.042	6.24	0.267	76.5	151.4	9.0	0.215
4-1810	4-291C	0.353	301.6	-52.8	-8.36	1.285	83.8	0.671	3.027	15.5	187.5	---	5.060	7.66	0.268	75.2	151.7	10.6	0.218
4-1810	4-293C	0.374	307.0	-59.6	-10.63	1.286	84.3	0.672	3.038	14.3	188.2	---	5.080	9.91	0.270	74.0	152.1	13.0	0.224
4-1810	4-295C	0.423	318.0	-70.1	-14.76	1.286	84.7	0.673	3.050	13.2	188.8	---	5.100	14.02	0.272	72.9	153.0	17.1	0.233
4-1810	4-297C	0.566	29.8	-82.7	-24.40	1.287	85.1	0.673	3.061	12.1	189.5	---	5.122	23.65	0.273	71.7	155.2	24.8	0.261
4-1810	4-299C	1.191	118.0	-53.4	-61.39	1.287	85.5	0.674	3.073	11.3	190.1	---	5.146	60.62	0.275	70.7	164.1	34.1	0.413
4-1810	4-301C	0.830	261.9	63.3	40.10	1.288	86.4	0.675	3.086	9.0	190.6	---	5.168	-40.88	0.277	69.7	157.1	-30.0	0.329
4-1810	4-303C	0.470	290.0	38.5	18.41	1.288	86.8	0.676	3.099	8.0	191.2	---	5.192	-19.21	0.279	68.7	153.8	-18.3	0.254
4-1810	4-305C	0.376	298.1	23.1	11.50	1.289	87.2	0.677	3.112	6.8	191.7	---	5.218	-12.32	0.281	67.8	153.7	-12.0	0.241
4-1810	4-307C	0.341	303.1	13.6	8.21	1.289	87.7	0.678	3.126	5.6	192.3	---	5.244	-9.05	0.282	66.9	154.2	-8.6	0.238
4-1810	4-309C	0.324	306.9	7.6	6.30	1.290	88.3	0.679	3.139	4.3	192.8	---	5.270	-7.15	0.284	66.0	154.8	-6.5	0.238
4-1810	4-311C	0.316	310.3	3.5	5.05	1.290	88.8	0.680	3.153	3.0	193.3	---	5.298	-5.92	0.286	65.2	155.5	-5.2	0.239
4-1810	4-313C	0.311	313.4	0.8	4.16	1.291	89.3	0.681	3.167	1.7	193.7	---	5.325	-5.05	0.288	64.4	156.3	-4.2	0.241
4-1810	4-3150	0.309	316.3	-1.2	3.51	1.291	89.8	0.683	3.182	0.4	194.2	---	5.354	-4.41	0.290	63.6	157.2	-3.5	0.243
4-1810	4-317C	0.308	319.1	-2.5	3.00	1.292	90.4	0.684	3.196	359.1	554.7	1.009	5.383	-3.92	0.291	62.9	158.0	-3.0	0.245
4-1810	4-319C	0.308	321.8	-3.5	2.59	1.292	90.9	0.686	3.211	357.7	555.1	1.009	5.412	-3.53	0.293	62.2	158.9	-2.6	0.248
4-1810	4-3210	0.309	324.4	-4.1	2.26	1.293	91.5	0.687	3.225	356.4	555.5	1.008	5.443	-3.21	0.295	61.5	159.9	-2.3	0.250
4-1810	4-3230	0.310	327.0	-4.5	1.98	1.294	92.0	0.689	3.240	355.0	556.9	1.008	5.473	-2.95	0.296	60.8	160.9	-2.0	0.252
4-1810	4-325C	0.312	329.5	-4.7	1.75	1.294	92.6	0.691	3.255	353.6	556.3	1.007	5.504	-2.73	0.298	60.1	161.9	-1.8	0.255
4-1810	4-3270	0.315	332.0	-4.7	1.54	1.295	93.2	0.693	3.270	352.3	556.7	1.005	5.535	-2.54	0.299	59.5	162.9	-1.7	0.257
4-1810	4-3290	0.318	334.4	-4.7	1.37	1.295	93.7	0.694	3.286	350.9	557.0	1.004	5.567	-2.38	0.301	58.8	164.0	-1.5	0.260
4-1810	4-3310	0.322	336.7	-4.5	1.21	1.296	94.3	0.696	3.301	349.5	557.4	1.002	5.600	-2.25	0.303	58.2	165.1	-1.4	0.262
4-1810	4-333C	0.326	339.0	-4.3	1.07	1.296	94.9	0.698	3.316	348.0	557.7	1.000	5.632	-2.12	0.304	57.6	166.2	-1.3	0.265
4-1810	4-3350	0.331	341.2	-3.9	0.95	1.297	95.5	0.700	3.332	346.6	558.0	0.998	5.665	-2.02	0.305	57.0	167.4	-1.3	0.267
4-1810	4-337C	0.336	343.4	-3.6	0.84	1.297	96.1	0.703	3.347	345.2	558.3	0.995	5.699	-1.92	0.307	56.5	168.5	-1.2	0.270
4-1810	4-3390	0.341	345.5	-3.2	0.73	1.298	96.7	0.705	3.363	343.8	558.6	0.993	5.733	-1.84	0.308	55.9	169.7	-1.2	0.272
4-1810	4-3410	0.347	347.6	-2.7	0.64	1.298	97.3	0.707	3.378	342.3	558.9	0.989	5.767	-1.76	0.310	55.3	170.9	-1.2	0.274
4-1820	4-2100	0.617	290.5	-24.3	-0.92	1.528	75.3	1.342-2.794		25.6	114.5	---	---	0.91	0.869	160.0	178.0	0.4	0.847
4-1820	4-2120	0.587	287.4	-24.8	-0.95	1.488	74.7	1.224-4.237		27.7	118.3	---	---	0.91	0.796	158.7	178.1	0.4	0.775
4-1820	4-2140	0.562	284.5	-25.2	-0.98	1.454	74.2	1.130-7.254		29.7	122.1	---	---	0.91	0.732	157.3	178.2	0.5	0.712
4-1820	4-2160	0.544	281.8	-25.5	-1.01	1.427	73.8	1.05417.216		31.6	125.8	---	---	0.91	0.676	155.9	178.2	0.5	0.656
4-1820	4-2180	0.529	279.4	-25.8	-1.04	1.404	73.3	0.99338.836		33.4	129.4	---	---	0.91	0.626	154.3	178.1	0.5	0.607
4-1820	4-2200	0.517	277.3	-26.0	-1.06	1.384	73.0	0.94416.337		35.1	132.9	---	---	0.91	0.582	152.6	178.0	0.5	0.562
4-1820	4-222C	0.507	275.4	-26.2	-1.09	1.368	72.7	0.903	9.425	36.6	136.2	---	---	0.92	0.542	150.8	177.8	0.6	0.523
4-1820	4-2240	0.499	273.8	-26.3	-1.12	1.354	72.4	0.869	6.963	37.9	139.3	---	---	0.92	0.507	148.9	177.6	0.6	0.487
4-1820	4-2260	0.493	272.4	-26.4	-1.15	1.343	72.2	0.841	5.711	39.1	142.3	---	---	0.93	0.475	146.9	177.2	0.7	0.455
4-1820	4-2280	0.487	271.2	-26.5	-1.18	1.333	72.1	0.818	4.959	40.1	145.1	---	---	0.94	0.447	144.8	176.8	0.7	0.426
4-1820	4-2300	0.482	270.3	-26.6	-1.21	1.324	71.9	0.798	4.462	40.9	147.7	---	---	0.95	0.421	142.6	176.3	0.8	0.400
4-1820	4-2320	0.478	269.5	-26.7	-1.24	1.317	71.9	0.781	4.113	41.6	150.2	---	---	0.96	0.398	140.3	175.7	0.9	0.376
4-1820	4-2340	0.473	268.9	-26.8	-1.28	1.311	71.8	0.767	3.857	42.2	152.6	---	---	0.97	0.378	137.9	175.0	1.0	0.355
4-1820	4-2360	0.469	268.4	-26.9	-1.31	1.306	71.8	0.755	3.663	42.6	154.8	---	---	0.98	0.359	135.4	174.2	1.0	0.336
4-1820	4-2380	0.466	268.1	-27.0	-1.34	1.301	71.8	0.745	3.513	42.9	156.9	---	---	0.99	0.343	132.9	173.3	1.1	0.318
4-1820	4-2400	0.462	267.9	-27.1	-1.38	1.297	71.9	0.736	3.395	43.0	158.9	---	---	1.01	0.329	130.2	172.3	1.2	0.303
4-1820	4-2420	0.458	267.8	-27.2	-1.42	1.294	72.0	0.728	3.301	43.1	160.8	---	---	1.02	0.316	127.5	171.3	1.4	0.289
4-1820	4-2440	0.454	267.8	-27.4	-1.45	1.291	72.1	0.722	3.225	43.1	162.6	---	---	1.04	0.305	124.8	170.2	1.5	0.276
4-1820	4-2460	0.450	268.0	-27.5	-1.49	1.289	72.3	0.716	3.164	42.9	164.3	---	---	1.06	0.295	122.0	169.0	1.6	0.265
4-1820	4-2480	0.446	268.2	-27.6	-1.53	1.287	72.4	0.711	3.114	42.7	165.9	---	---	1.08	0.287	119.2	167.7	1.7	0.255
4-1820	4-2500	0.442	268.5	-27.8	-1.57	1.285	72.6	0.706	3.073	42.4	167.4	---	---	1.11	0.280	116.4	166.5	1.8	0.246
4-1820	4-2520	0.438	268.9	-28.0	-1.62	1.284	72.8	0.703	3.041	42.0	168.8	---	---	1.13	0.273	113.7	165.1	2.0	0.238
4-1820	4-2540	0.434	269.4	-28.2	-1.66	1.283	73.1	0.699	3.014	41.5	170.2	---	---	1.16	0.268	111.0	163.8	2.1	0.232
4-1820	4-2560	0.430	270.0	-28.3	-1.71	1.282	73.3	0.696	2.993	41.0	171.5	---	---	1.19	0.264	108.3	162.5	2.2	0.226
4-1820	4-258C	0.426	270.6	-28.5	-1.77	1.281	73.6	0.693	2.977	40.4	172.7	---	---	1.23	0.261	105.7	161.2	2.4	0.221
4-1820	4-2600	0.421	271.4	-28.8	-1.82	1.281	73.9	0.691	2.964	39.8	173.9	---	---	1.26	0.258	103.1	160.0	2.5	0.217
4-1820	4-2620	0.417	272.1	-29.0	-1.88	1.280	74.2	0.689	2.955	39.1	175.1	---	---	1.30	0.256	100.6	158.7	2.6	0.214
4-1820	4-264C	0.413	273.0	-29.2	-1.94	1.280	74.5	0.687	2.949	38.4	176.2	---	---	1.35	0.255	98.3	157.6	2.8	0.212
4-1820	4-2660	0.408	273.9	-29.5	-2.01	1.280	74.8	0.686	2.945	37.6	177.2	---	---	1.40	0.254	96.0	156.5	2.9	0.210
4-1820	4-2680	0.403	274.9	-29.8	-2.08	1.280	75.2	0.684	2.943	36.8	178.3	---	---	1.46	0.253	93.8	155.5	3.0	0.208
4-1820	4-2700	0.399	276.0	-30.1	-2.16	1.280	75.5	0.683	2.943	35.9	179.2	---	---	1.52	0.253	91.7	154.6	3.2	0.207

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1820	4-2720	0.394	277.1	-30.4	-2.24	1.280	75.9	0.682	2.945	35.0	180.2	---	4.953	1.59	0.253	89.7	153.8	3.3	0.207
4-1820	4-2740	0.390	278.3	-30.7	-2.33	1.280	76.3	0.681	2.948	34.1	181.1	---	4.956	1.66	0.254	87.7	153.1	3.4	0.207
4-1820	4-2760	0.385	279.6	-31.1	-2.44	1.280	76.7	0.680	2.953	33.1	181.9	---	4.961	1.75	0.255	85.9	152.5	3.6	0.207
4-1820	4-2780	0.381	280.9	-31.5	-2.55	1.280	77.1	0.679	2.959	32.1	182.8	---	4.969	1.85	0.256	84.2	152.0	3.7	0.208
4-1820	4-2800	0.376	282.3	-31.9	-2.68	1.281	77.5	0.679	2.966	31.1	183.6	---	4.979	1.96	0.257	82.5	151.6	3.9	0.208
4-1820	4-2820	0.372	283.8	-32.4	-2.82	1.281	77.9	0.678	2.974	30.1	184.3	---	4.991	2.09	0.259	81.0	151.3	4.0	0.210
4-1820	4-2840	0.368	285.4	-33.0	-2.99	1.281	78.3	0.678	2.982	29.0	185.1	---	5.004	2.24	0.260	79.5	151.1	4.2	0.211
4-1820	4-2860	0.364	287.1	-33.6	-3.18	1.282	78.8	0.678	2.992	27.9	185.8	---	5.019	2.41	0.262	78.1	151.0	4.4	0.212
4-1820	4-2880	0.360	288.9	-34.4	-3.40	1.282	79.2	0.678	3.002	26.8	186.5	---	5.036	2.62	0.264	76.7	151.0	4.6	0.214
4-1820	4-2900	0.357	290.8	-35.3	-3.66	1.283	79.7	0.678	3.012	25.6	187.2	---	5.053	2.87	0.265	75.4	151.0	4.9	0.216
4-1820	4-2920	0.354	292.8	-36.3	-3.98	1.283	80.1	0.678	3.024	24.5	187.9	---	5.072	3.17	0.267	74.2	151.2	5.2	0.218
4-1820	4-2940	0.351	295.0	-37.6	-4.37	1.284	80.6	0.678	3.035	23.3	188.5	---	5.092	3.55	0.269	73.1	151.5	5.6	0.220
4-1820	4-2960	0.350	297.4	-39.3	-4.87	1.284	81.1	0.678	3.047	22.1	189.1	---	5.114	4.03	0.271	72.0	151.8	6.1	0.222
4-1820	4-2980	0.350	300.0	-41.5	-5.53	1.285	81.6	0.678	3.060	20.9	189.7	---	5.136	4.68	0.273	70.9	152.2	6.8	0.225
4-1820	4-3000	0.352	303.0	-44.5	-6.43	1.285	82.1	0.679	3.073	19.7	190.3	---	5.158	5.56	0.275	69.9	152.8	7.7	0.228
4-1820	4-3020	0.359	306.7	-48.7	-7.75	1.286	82.5	0.679	3.086	18.5	190.9	---	5.182	6.87	0.277	68.9	153.4	9.1	0.231
4-1820	4-3040	0.376	311.8	-55.1	-9.88	1.286	83.0	0.680	3.100	17.2	191.4	---	5.207	8.99	0.279	68.0	154.3	11.2	0.236
4-1820	4-3060	0.419	321.3	-65.5	-13.87	1.287	83.5	0.680	3.114	16.0	192.0	---	5.232	12.96	0.281	67.2	155.5	15.0	0.244
4-1820	4-3080	0.562	13.0	-81.2	-23.84	1.288	84.0	0.681	3.128	14.8	192.5	---	5.258	22.91	0.283	66.3	158.3	23.0	0.271
4-1820	4-3100	1.924	127.6	-50.4	-69.68	1.288	84.3	0.682	3.142	14.0	193.0	---	5.285	68.74	0.284	65.5	171.1	32.6	0.454
4-1820	4-3120	0.683	275.4	54.6	31.31	1.289	85.2	0.682	3.157	11.7	193.4	---	5.310	-32.26	0.286	64.8	159.5	-25.9	0.305
4-1820	4-3140	0.423	296.8	30.7	14.76	1.289	85.7	0.683	3.171	10.6	193.9	---	5.338	-15.72	0.288	64.0	157.5	-14.6	0.258
4-1820	4-3160	0.358	304.4	17.0	9.30	1.290	86.2	0.684	3.186	9.3	194.4	---	5.366	-10.28	0.290	63.3	157.9	-9.5	0.251
4-1820	4-3180	0.333	309.2	9.0	6.64	1.290	86.8	0.685	3.201	8.0	194.8	---	5.395	-7.63	0.292	62.6	158.6	-6.8	0.250
4-1820	4-3200	0.321	313.1	4.1	5.06	1.291	87.3	0.686	3.216	6.6	195.2	---	5.424	-6.07	0.294	61.9	159.5	-5.2	0.250
4-1820	4-3220	0.314	316.4	0.9	4.02	1.292	87.8	0.688	3.232	5.3	195.6	---	5.454	-5.05	0.295	61.3	160.5	-4.2	0.252
4-1820	4-3240	0.311	319.5	-1.3	3.28	1.292	88.4	0.689	3.247	3.9	196.0	---	5.484	-4.32	0.297	60.6	161.5	-3.4	0.254
4-1820	4-3260	0.309	322.5	-2.7	2.73	1.293	89.0	0.690	3.263	2.6	196.4	---	5.514	-3.78	0.299	60.0	162.5	-2.9	0.256
4-1820	4-3280	0.308	325.3	-3.6	2.30	1.293	89.5	0.691	3.278	1.2	196.8	---	5.545	-3.37	0.300	59.4	163.5	-2.5	0.258
4-1820	4-3300	0.308	328.0	-4.2	1.96	1.294	90.1	0.693	3.294	359.8	557.2	1.011	5.576	-3.03	0.302	58.8	164.6	-2.2	0.260
4-1820	4-3320	0.309	330.7	-4.5	1.67	1.294	90.7	0.694	3.309	358.4	557.5	1.011	5.607	-2.77	0.303	58.3	165.7	-2.0	0.262
4-1820	4-3340	0.310	333.3	-4.6	1.44	1.295	91.2	0.696	3.325	357.0	557.8	1.011	5.639	-2.54	0.305	57.7	166.8	-1.8	0.264
4-1820	4-3360	0.312	335.9	-4.5	1.24	1.295	91.8	0.698	3.341	355.6	558.2	1.010	5.672	-2.36	0.306	57.2	168.0	-1.6	0.266
4-1820	4-3380	0.314	338.4	-4.4	1.06	1.296	92.4	0.699	3.357	354.2	558.5	1.009	5.704	-2.20	0.308	56.6	169.2	-1.5	0.268
4-1820	4-3400	0.317	340.8	-4.1	0.91	1.297	93.0	0.701	3.373	352.7	558.8	1.008	5.737	-2.06	0.309	56.1	170.4	-1.4	0.271
4-1820	4-3420	0.320	343.2	-3.7	0.78	1.297	93.6	0.703	3.389	351.3	559.1	1.007	5.770	-1.94	0.311	55.6	171.6	-1.4	0.273
4-1830	4-2150	0.633	280.1	-25.2	-1.00	1.440	68.1	1.08610.161		42.1	125.8	---	---	0.74	0.705	157.5	177.6	0.4	0.691
4-1830	4-2170	0.616	277.9	-25.4	-1.02	1.413	67.8	1.02142.025		44.0	129.5	---	---	0.74	0.650	156.0	177.5	0.4	0.637
4-1830	4-2190	0.602	276.1	-25.6	-1.04	1.392	67.5	0.96826.834		45.8	133.1	---	---	0.74	0.602	154.4	177.3	0.5	0.590
4-1830	4-2210	0.591	274.4	-25.7	-1.07	1.373	67.3	0.92511.401		47.4	136.5	---	---	0.74	0.559	152.7	177.1	0.5	0.547
4-1830	4-2230	0.582	273.0	-25.8	-1.09	1.358	67.1	0.890	7.717	48.8	139.7	---	---	0.74	0.520	150.8	176.8	0.5	0.509
4-1830	4-2250	0.574	271.8	-25.8	-1.11	1.345	67.0	0.861	6.078	50.0	142.7	---	---	0.74	0.486	148.9	176.4	0.6	0.475
4-1830	4-2270	0.568	270.9	-25.9	-1.14	1.334	66.9	0.837	5.160	51.1	145.5	---	---	0.74	0.455	146.8	176.0	0.6	0.444
4-1830	4-2290	0.561	270.1	-26.0	-1.16	1.325	66.8	0.817	4.578	51.9	148.2	---	---	0.74	0.427	144.6	175.4	0.7	0.416
4-1830	4-2310	0.556	269.4	-26.0	-1.18	1.317	66.8	0.800	4.180	52.6	150.7	---	---	0.74	0.403	142.3	174.8	0.7	0.391
4-1830	4-2330	0.551	268.9	-26.1	-1.21	1.310	66.8	0.786	3.894	53.2	153.1	---	---	0.75	0.381	139.9	174.1	0.8	0.369
4-1830	4-2350	0.546	268.6	-26.1	-1.23	1.305	66.9	0.774	3.681	53.6	155.3	---	---	0.75	0.361	137.4	173.3	0.9	0.348
4-1830	4-2370	0.541	268.3	-26.2	-1.26	1.300	67.0	0.763	3.518	53.8	157.4	---	---	0.76	0.344	134.8	172.4	1.0	0.330
4-1830	4-2390	0.536	268.2	-26.3	-1.28	1.296	67.1	0.754	3.391	54.0	159.3	---	---	0.76	0.328	132.1	171.4	1.1	0.314
4-1830	4-2410	0.532	268.2	-26.4	-1.31	1.292	67.2	0.746	3.291	54.0	161.2	---	---	0.77	0.314	129.3	170.4	1.1	0.299
4-1830	4-2430	0.527	268.2	-26.4	-1.33	1.289	67.4	0.740	3.210	53.9	162.9	---	---	0.78	0.302	126.5	169.2	1.2	0.286
4-1830	4-2450	0.523	268.4	-26.5	-1.36	1.287	67.6	0.734	3.146	53.7	164.6	---	---	0.79	0.292	123.7	168.1	1.3	0.274
4-1830	4-2470	0.518	268.6	-26.6	-1.39	1.285	67.8	0.728	3.093	53.5	166.1	---	---	0.80	0.283	120.8	166.8	1.4	0.264
4-1830	4-2490	0.513	268.9	-26.7	-1.41	1.283	68.0	0.724	3.051	53.1	167.6	---	---	0.81	0.275	117.9	165.6	1.5	0.254
4-1830	4-2510	0.508	269.3	-26.8	-1.44	1.282	68.3	0.720	3.017	52.7	169.0	---	---	0.82	0.269	115.0	164.3	1.6	0.246
4-1830	4-2530	0.503	269.7	-26.9	-1.47	1.280	68.5	0.716	2.990	52.2	170.3	---	---	0.83	0.263	112.2	163.0	1.7	0.239
4-1830	4-2550	0.498	270.2	-27.0	-1.50	1.279	68.8	0.713	2.969	51.7	171.6	---	---	0.85	0.259	109.4	161.7	1.9	0.234
4-1830	4-2570	0.493	270.8	-27.2	-1.53	1.279	69.1	0.710	2.952	51.0	172.8	---	---	0.87	0.255	106.6	160.5	2.0	0.228
4-1830	4-2590	0.488	271.4	-27.3	-1.57	1.278	69.4	0.707	2.939	50.4	174.0	---	---	0.88	0.252	104.0	159.2	2.1	0.224
4-1830	4-2610	0.482	272.0	-27.4	-1.60	1.278	69.8	0.705	2.930	49.6	175.1	---	---	0.90	0.250	101.4	158.1	2.2	0.221
4-1830	4-2630	0.477	272.8	-27.6	-1.64	1.277	70.1	0.702	2.923	48.9	176.2	---	---	0.93	0.249	98.9	156.9	2.2	0.218
4-1830	4-2650	0.471	273.5	-27.7	-1.68	1.277	70.5	0.700	2.920	48.1	177.2	---	---	0.95	0.248	96.5	155.9	2.3	0.216
4-1830	4-2670	0.466	274.4	-27.8	-1.72	1.277	70.8	0.699	2.918	47.2	178.2	---	---	0.98	0.248	94.2	154.9	2.4	0.214
4-1830	4-2690	0.460	275.2	-28.0	-1.76	1.277	71.2	0.697	2.919	46.3	179.1	---	---	1.00	0.248	92.0	154.1	2.5	0.213
4-1830	4-2710	0.455	276.2	-28.1	-1.80	1.277	71.6	0.695	2.921	45.4	180.0	---	4.952	1.03	0.248	89.9	153.3	2.6	0.212
4-1830	4-2730	0.449	277.1	-28.3	-1.85	1.277	72.0	0.694	2.925	44.5	180.9	---	4.955	1.07	0.249	87.9	152.6	2.7	0.212
4-1830	4-2750	0.443	278.2	-28.5	-1.90	1.278	72.4	0.693	2.930	43.5	181.8	---	4.960	1.11	0.250	86.0	152.0	2.7	0.212
4-1830	4-2770	0.437	279.2	-28.7	-1.96	1.278	72.8	0.692	2.936	42.5	182.6	---	4.967	1.15	0.251	84.2	151.5	2.8	0.212
4-1830	4-2790	0.432	280.4	-28.8	-2.02	1.278	73.2	0.691	2.943	41.4	183.4	---	4.977	1.19	0.252	82.5	151.1	2.9	0.213
4-1830	4-2810	0.426	281.6	-29.0	-2.08	1.279	73.7	0.690	2.952	40.4	184.1	---	4.988	1.25	0.254	80.9	150.8	3.0	0.214
4-1830	4-2830	0.420	282.8	-29.3	-2.15	1.279	74.1	0.689	2.961	39.3	184.9	---	5.001	1.30	0.256	79.4	150.6	3.0	0.215
4-1830	4-2850	0.415	284.1	-29.5	-2.23	1.279	74.6	0.689	2.970	38.2	185.6	---	5.016	1.37	0.257	78.0	150.5	3.1	0.216
4-1830	4-2870	0.409	285.5	-29.7	-2.32	1.280	75.0	0.688	2.981	37.0	186.3	---	5.032	1.44	0.259	76.6	150.5	3.2	0.217
4-1830	4-2890	0.403	286.9	-30.0	-2.41	1.280	75.5	0.688	2.992	35.9	186.9	---	5.049	1.52	0.261	75.3	150.6	3.3	0.219
4-1830	4-2910	0.398	288.4	-30.3	-2.52	1.281	76.0	0.687	3.004	34.7	187.6	---	5.068	1.62	0.263	74.1	150.8	3.4	0.221
4-1830	4-2930	0.393	290.0	-30.6	-2.64	1.281	76.4	0.687	3.016	33.5	188.2	---	5.088	1.72	0.265	72.9	151.0	3.5	0.222
4-1830	4-2950	0.387	291.6	-31.0	-2.77	1.282	76.9	0.687	3.029	32.3	188.8	---	5.108	1.85	0.267	71.8	151.3	3.6	0.224
4-1830	4-2970	0.382	293.3	-31.5	-2.93	1.283	77.4	0.686	3.042	31.1	189.4	---	5.130	1.99	0.270	70.8	151.7	3.7	0.226
4-1830	4-2990	0.378	295.1	-32.0	-3.12	1.283	77.9	0.686	3.055	29.9	190.0	---	5.152	2.17	0.272	69.8	152.1	3.9	0.228
4-1830	4-3010	0.373	297.1	-32.6	-3.34	1.284	78.4	0.686	3.069	28.6	190.6	---	5.175	2.37	0.274	68.9	152.7	4.0	0.230

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1830	4-3030	0.369	299.1	-33.4	-3.60	1.284	78.9	0.686	3.083	27.4	191.1	---	5.199	2.63	0.276	68.0	153.2	4.3	0.232
4-1830	4-3050	0.365	301.2	-34.4	-3.93	1.285	79.4	0.686	3.097	26.1	191.6	---	5.224	2.95	0.278	67.1	153.9	4.6	0.234
4-1830	4-3070	0.362	303.5	-35.7	-4.35	1.285	79.9	0.687	3.112	24.8	192.2	---	5.249	3.36	0.280	66.3	154.6	5.0	0.237
4-1830	4-3090	0.360	306.1	-37.4	-4.91	1.286	80.4	0.687	3.127	23.5	192.6	---	5.275	3.90	0.282	65.5	155.3	5.5	0.239
4-1830	4-3110	0.360	309.0	-39.8	-5.68	1.287	81.0	0.687	3.142	22.2	193.1	---	5.301	4.66	0.284	64.7	156.2	6.2	0.241
4-1830	4-3130	0.364	312.4	-43.3	-6.82	1.287	81.5	0.688	3.157	20.9	193.6	---	5.328	5.79	0.286	64.0	157.1	7.3	0.244
4-1830	4-3150	0.375	317.0	-48.9	-8.68	1.288	82.0	0.688	3.172	19.6	194.1	---	5.355	7.63	0.288	63.3	158.1	9.1	0.248
4-1830	4-3170	0.408	324.9	-58.6	-12.25	1.288	82.5	0.689	3.188	18.3	194.5	---	5.383	11.19	0.290	62.6	159.6	12.4	0.255
4-1830	4-3190	0.536	355.8	-76.6	-21.76	1.289	83.1	0.689	3.203	17.0	194.9	---	5.412	20.70	0.292	62.0	162.5	20.2	0.277
4-1830	4-3210	1.444	137.2	-48.5	-77.45	1.290	83.4	0.690	3.219	16.1	195.4	---	5.441	76.37	0.294	61.3	179.0	30.8	0.491
4-1830	4-3230	0.563	288.1	45.4	23.79	1.290	84.3	0.691	3.235	14.0	195.8	---	5.469	-24.88	0.295	60.8	163.2	-21.0	0.292
4-1830	4-3250	0.387	305.1	22.4	11.30	1.291	84.8	0.691	3.251	12.7	196.2	---	5.499	-12.40	0.297	60.2	162.4	-11.2	0.265
4-1830	4-3270	0.345	311.9	10.7	7.10	1.291	85.3	0.692	3.267	11.4	196.5	---	5.528	-8.21	0.299	59.6	163.2	-7.2	0.261
4-1830	4-3290	0.328	316.4	4.4	5.02	1.292	85.9	0.693	3.283	10.0	196.9	---	5.559	-6.14	0.301	59.1	164.2	-5.2	0.261
4-1830	4-3310	0.320	320.1	0.6	3.77	1.293	86.5	0.694	3.299	8.6	197.3	---	5.589	-4.90	0.302	58.6	165.2	-4.1	0.262
4-1830	4-3330	0.315	323.3	-1.7	2.94	1.293	87.0	0.695	3.315	7.2	197.6	---	5.620	-4.09	0.304	58.0	166.3	-3.3	0.263
4-1830	4-3350	0.312	326.3	-3.2	2.35	1.294	87.6	0.696	3.331	5.8	198.0	---	5.652	-3.51	0.305	57.5	167.5	-2.7	0.265
4-1830	4-3370	0.311	329.2	-4.0	1.91	1.294	88.2	0.698	3.348	4.4	198.3	---	5.683	-3.08	0.307	57.0	168.6	-2.4	0.267
4-1830	4-3390	0.310	332.0	-4.5	1.56	1.295	88.8	0.699	3.364	3.0	198.6	---	5.715	-2.74	0.308	56.6	169.8	-2.1	0.269
4-1830	4-3410	0.310	334.7	-4.7	1.29	1.295	89.3	0.700	3.380	1.6	198.9	---	5.747	-2.48	0.310	56.1	171.0	-1.9	0.271
4-1830	4-3430	0.310	337.3	-4.7	1.06	1.296	89.9	0.702	3.396	0.2	199.2	---	5.780	-2.26	0.311	55.6	172.2	-1.7	0.272
4-1840	4-2180	0.704	276.3	-25.2	-1.06	1.400	61.5	0.99293.877		57.2	134.0	---	---	0.56	0.623	156.4	176.4	0.4	0.620
4-1840	4-2200	0.690	274.9	-25.3	-1.08	1.380	61.5	0.94714.782		58.8	137.4	---	---	0.56	0.576	154.8	176.1	0.4	0.574
4-1840	4-2220	0.679	273.8	-25.3	-1.09	1.362	61.4	0.912	8.725	60.3	140.7	---	---	0.55	0.534	153.0	175.8	0.5	0.533
4-1840	4-2240	0.669	272.8	-25.4	-1.11	1.348	61.4	0.882	6.513	61.5	143.7	---	---	0.55	0.497	151.1	175.4	0.5	0.497
4-1840	4-2260	0.660	272.0	-25.4	-1.13	1.336	61.4	0.858	5.378	62.6	146.6	---	---	0.55	0.463	149.0	174.9	0.6	0.464
4-1840	4-2280	0.652	271.3	-25.5	-1.15	1.326	61.4	0.838	4.693	63.4	149.2	---	---	0.55	0.434	146.9	174.3	0.6	0.434
4-1840	4-2300	0.645	270.8	-25.5	-1.16	1.317	61.5	0.821	4.240	64.1	151.7	---	---	0.55	0.407	144.6	173.6	0.7	0.408
4-1840	4-2320	0.639	270.5	-25.6	-1.18	1.310	61.6	0.807	3.922	64.6	154.0	---	---	0.55	0.383	142.2	172.9	0.7	0.384
4-1840	4-2340	0.633	270.2	-25.6	-1.20	1.304	61.7	0.795	3.689	64.9	156.2	---	---	0.55	0.362	139.7	172.1	0.8	0.363
4-1840	4-2360	0.626	270.0	-25.7	-1.21	1.299	61.8	0.785	3.513	65.2	158.2	---	---	0.55	0.343	137.0	171.2	0.8	0.344
4-1840	4-2380	0.621	270.0	-25.7	-1.23	1.294	62.0	0.776	3.377	65.2	160.1	---	---	0.55	0.326	134.3	170.2	0.9	0.326
4-1840	4-2400	0.615	270.0	-25.8	-1.25	1.290	62.2	0.768	3.270	65.2	161.9	---	---	0.55	0.311	131.5	169.1	1.0	0.311
4-1840	4-2420	0.609	270.1	-25.8	-1.27	1.287	62.4	0.761	3.186	65.1	163.6	---	---	0.55	0.298	128.6	168.0	1.1	0.297
4-1840	4-2440	0.603	270.3	-25.9	-1.29	1.285	62.7	0.755	3.118	64.8	165.2	---	---	0.56	0.287	125.6	166.8	1.2	0.285
4-1840	4-2460	0.598	270.5	-25.9	-1.30	1.282	62.9	0.750	3.064	64.5	166.6	---	---	0.56	0.277	122.6	165.6	1.2	0.274
4-1840	4-2480	0.592	270.8	-26.0	-1.32	1.281	63.2	0.745	3.021	64.1	168.1	---	---	0.56	0.269	119.6	164.4	1.3	0.264
4-1840	4-2500	0.586	271.2	-26.1	-1.34	1.279	63.5	0.740	2.986	63.6	169.4	---	---	0.57	0.262	116.5	163.1	1.4	0.256
4-1840	4-2520	0.580	271.6	-26.1	-1.36	1.278	63.8	0.737	2.958	63.1	170.7	---	---	0.57	0.256	113.5	161.9	1.5	0.249
4-1840	4-2540	0.574	272.0	-26.2	-1.38	1.277	64.1	0.733	2.936	62.4	171.9	---	---	0.58	0.251	110.6	160.6	1.6	0.243
4-1840	4-2560	0.568	272.5	-26.3	-1.40	1.276	64.4	0.730	2.919	61.8	173.1	---	---	0.59	0.248	107.7	159.4	1.7	0.237
4-1840	4-2580	0.562	273.1	-26.3	-1.42	1.275	64.8	0.727	2.907	61.1	174.2	---	---	0.59	0.245	104.8	158.2	1.7	0.233
4-1840	4-2600	0.556	273.7	-26.4	-1.44	1.275	65.2	0.724	2.898	60.3	175.3	---	---	0.60	0.243	102.1	157.1	1.8	0.229
4-1840	4-2620	0.550	274.3	-26.5	-1.46	1.275	65.5	0.721	2.892	59.5	176.3	---	---	0.61	0.241	99.5	156.0	1.9	0.226
4-1840	4-2640	0.543	275.0	-26.5	-1.48	1.275	65.9	0.719	2.888	58.6	177.3	---	---	0.62	0.240	96.9	155.0	2.0	0.224
4-1840	4-2660	0.537	275.7	-26.6	-1.51	1.275	66.3	0.717	2.887	57.8	178.2	---	---	0.63	0.240	94.5	154.1	2.0	0.222
4-1840	4-2680	0.530	276.5	-26.7	-1.53	1.275	66.7	0.715	2.888	56.8	179.1	---	---	0.65	0.240	92.2	153.3	2.1	0.220
4-1840	4-2700	0.524	277.2	-26.8	-1.56	1.275	67.1	0.713	2.891	55.9	180.0	---	4.952	0.66	0.241	90.0	152.5	2.1	0.219
4-1840	4-2720	0.517	278.1	-26.8	-1.58	1.275	67.6	0.711	2.895	54.9	180.8	---	4.954	0.68	0.242	87.9	151.9	2.2	0.219
4-1840	4-2740	0.511	278.9	-26.9	-1.61	1.275	68.0	0.710	2.900	53.9	181.7	---	4.959	0.69	0.243	85.9	151.4	2.2	0.219
4-1840	4-2760	0.504	279.9	-27.0	-1.64	1.275	68.4	0.708	2.907	52.8	182.5	---	4.966	0.71	0.244	84.1	150.9	2.3	0.219
4-1840	4-2780	0.497	280.8	-27.1	-1.67	1.276	68.9	0.707	2.915	51.8	183.2	---	4.976	0.73	0.246	82.3	150.5	2.3	0.219
4-1840	4-2800	0.491	281.8	-27.2	-1.70	1.276	69.3	0.706	2.924	50.7	184.0	---	4.987	0.75	0.248	80.7	150.3	2.4	0.220
4-1840	4-2820	0.484	282.8	-27.2	-1.73	1.277	69.8	0.704	2.934	49.6	184.7	---	5.000	0.77	0.250	79.1	150.1	2.4	0.221
4-1840	4-2840	0.477	283.9	-27.3	-1.77	1.277	70.3	0.703	2.944	48.4	185.4	---	5.014	0.80	0.252	77.6	150.0	2.4	0.222
4-1840	4-2860	0.470	285.0	-27.4	-1.81	1.278	70.7	0.702	2.955	47.3	186.0	---	5.030	0.83	0.254	76.2	150.0	2.5	0.223
4-1840	4-2880	0.464	286.1	-27.5	-1.85	1.278	71.2	0.701	2.967	46.1	186.7	---	5.047	0.86	0.256	74.9	150.1	2.5	0.224
4-1840	4-2900	0.457	287.3	-27.6	-1.90	1.279	71.7	0.700	2.979	44.9	187.3	---	5.066	0.90	0.258	73.7	150.3	2.5	0.226
4-1840	4-2920	0.450	288.6	-27.7	-1.94	1.279	72.2	0.700	2.992	43.7	188.0	---	5.085	0.93	0.261	72.5	150.5	2.5	0.227
4-1840	4-2940	0.444	289.9	-27.7	-2.00	1.280	72.7	0.699	3.005	42.5	188.6	---	5.105	0.98	0.263	71.4	150.8	2.6	0.229
4-1840	4-2960	0.437	291.2	-27.8	-2.05	1.280	73.2	0.698	3.019	41.3	189.1	---	5.127	1.03	0.265	70.4	151.2	2.6	0.230
4-1840	4-2980	0.431	292.6	-28.0	-2.12	1.281	73.7	0.698	3.033	40.1	189.7	---	5.149	1.08	0.267	69.4	151.7	2.6	0.232
4-1840	4-3000	0.424	294.0	-28.1	-2.19	1.282	74.2	0.697	3.047	38.8	190.3	---	5.172	1.14	0.270	68.4	152.2	2.7	0.234
4-1840	4-3020	0.418	295.5	-28.2	-2.27	1.282	74.7	0.697	3.062	37.5	190.8	---	5.195	1.22	0.272	67.5	152.7	2.7	0.236
4-1840	4-3040	0.412	297.1	-28.4	-2.36	1.283	75.2	0.696	3.077	36.3	191.3	---	5.219	1.30	0.274	66.7	153.4	2.8	0.237
4-1840	4-3060	0.405	298.7	-28.6	-2.46	1.283	75.7	0.696	3.092	35.0	191.8	---	5.244	1.39	0.277	65.9	154.0	2.8	0.239
4-1840	4-3080	0.399	300.4	-28.8	-2.58	1.284	76.3	0.696	3.107	33.7	192.3	---	5.269	1.50	0.279	65.1	154.7	2.9	0.241
4-1840	4-3100	0.394	302.1	-29.1	-2.72	1.285	76.8	0.696	3.123	32.4	192.8	---	5.295	1.63	0.281	64.4	155.5	3.0	0.243
4-1840	4-3120	0.388	304.0	-29.4	-2.89	1.285	77.3	0.696	3.138	31.0	193.3	---	5.322	1.79	0.283	63.7	156.3	3.1	0.245
4-1840	4-3140	0.383	305.9	-29.9	-3.09	1.286	77.9	0.696	3.154	29.7	193.7	---	5.348	1.99	0.285	63.0	157.2	3.2	0.247
4-1840	4-3160	0.378	307.9	-30.5	-3.35	1.287	78.4	0.696	3.170	28.4	194.2	---	5.376	2.23	0.287	62.4	158.1	3.4	0.249
4-1840	4-3180	0.374	310.1	-31.3	-3.67	1.287	78.9	0.696	3.186	27.0	194.6	---	5.403	2.54	0.289	61.8	159.0	3.7	0.251
4-1840	4-3200	0.370	312.5	-32.4	-4.09	1.288	79.5	0.696	3.203	25.7	195.0	---	5.432	2.96	0.291	61.2	160.0	4.0	0.253
4-1840	4-3220	0.368	315.1	-34.1	-4.68	1.288	80.0	0.696	3.219	24.3	195.4	---	5.460	3.54	0.293	60.6	161.0	4.6	0.255
4-1840	4-3240	0.368	318.2	-36.7	-5.56	1.289	80.6	0.697	3.235	23.0	195.8	---	5.489	4.41	0.295	60.0	162.1	5.3	0.257
4-1840	4-3260	0.372	322.1	-41.0	-7.00	1.290	81.1	0.697	3.252	21.6	196.2	---	5.518	5.84	0.297	59.5	163.2	6.6	0.260
4-1840	4-3280	0.392	328.2	-49.0	-9.82	1.290	81.7	0.697	3.268	20.2	196.6	---	5.548	8.66	0.299	59.0	164.7	9.2	0.264
4-1840	4-3300	0.483	345.5	-66.9	-17.72	1.291	82.2	0.698	3.285	18.9	197.0	---	5.577	16.54	0.300	58.5	167.2	15.9	0.279
4-1840	4-3320	1.504	145.9	-49.4	-81.50	1.291	82.6	0.699	3.302	17.9	197.3	---	5.608	80.32	0.302	58.0	186.8	29.3	0.510
4-1840	4-3340	0.470	300.9	34.9	17.14	1.292	83.4	0.699	3.318	16.0	197.7	---	5.638	-18.33	0.304	57.6	168.1	-15.8	0.286

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

BEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1840	4-3360	0.362	314.4	13.6	7.97	1.293	84.0	0.700	3.335	14.6	198.0	---	5.668	-9.17	0.306	57.1	168.3	-8.0	0.272
4-1840	4-3380	0.337	320.3	4.5	4.89	1.293	84.6	0.700	3.352	13.2	198.4	---	5.699	-6.10	0.307	56.6	169.3	-5.2	0.271
4-1840	4-3400	0.327	324.3	-0.1	3.35	1.294	85.1	0.701	3.368	11.8	198.7	---	5.731	-4.57	0.309	56.2	170.5	-3.8	0.271
4-1840	4-3420	0.322	327.7	-2.6	2.43	1.294	85.7	0.702	3.385	10.4	199.0	---	5.762	-3.66	0.310	55.8	171.7	-3.0	0.272
4-1840	4-3440	0.318	330.7	-4.1	1.82	1.295	86.3	0.703	3.402	9.0	199.3	---	5.794	-3.05	0.312	55.4	172.9	-2.5	0.274
4-1850	4-2190	0.803	276.5	-24.9	-1.12	1.387	55.2	0.97022.491		70.9	139.1	---	---	0.37	0.596	157.2	174.9	0.4	0.606
4-1850	4-2210	0.788	275.6	-25.0	-1.13	1.368	55.2	0.93410.250		72.4	142.3	---	---	0.36	0.550	155.5	174.5	0.4	0.562
4-1850	4-2230	0.775	274.8	-25.0	-1.15	1.352	55.3	0.905	7.079	73.6	145.3	---	---	0.36	0.509	153.6	174.1	0.5	0.522
4-1850	4-2250	0.764	274.1	-25.1	-1.16	1.338	55.4	0.882	5.637	74.6	148.1	---	---	0.36	0.472	151.7	173.6	0.5	0.487
4-1850	4-2270	0.754	273.6	-25.1	-1.17	1.327	55.6	0.862	4.821	75.4	150.7	---	---	0.35	0.440	149.5	172.9	0.6	0.455
4-1850	4-2290	0.744	273.3	-25.1	-1.18	1.318	55.7	0.846	4.302	76.0	153.1	---	---	0.35	0.411	147.3	172.3	0.6	0.427
4-1850	4-2310	0.736	273.0	-25.2	-1.19	1.310	55.9	0.832	3.946	76.4	155.3	---	---	0.35	0.385	144.9	171.5	0.6	0.402
4-1850	4-2330	0.728	272.8	-25.2	-1.20	1.303	56.1	0.820	3.691	76.7	157.4	---	---	0.35	0.362	142.4	170.6	0.7	0.379
4-1850	4-2350	0.720	272.8	-25.2	-1.22	1.297	56.4	0.810	3.500	76.8	159.4	---	---	0.35	0.341	139.7	169.7	0.8	0.359
4-1850	4-2370	0.713	272.8	-25.3	-1.23	1.293	56.6	0.801	3.355	76.8	161.2	---	---	0.34	0.323	136.9	168.7	0.8	0.341
4-1850	4-2390	0.706	272.9	-25.3	-1.24	1.289	56.9	0.793	3.243	76.6	162.9	---	---	0.34	0.307	134.0	167.7	0.9	0.325
4-1850	4-2410	0.699	273.0	-25.3	-1.25	1.285	57.2	0.786	3.154	76.4	164.5	---	---	0.34	0.293	131.0	166.5	1.0	0.311
4-1850	4-2430	0.692	273.2	-25.4	-1.26	1.282	57.5	0.780	3.084	76.1	166.0	---	---	0.34	0.281	127.9	165.4	1.0	0.298
4-1850	4-2450	0.685	273.5	-25.4	-1.27	1.280	57.8	0.775	3.028	75.7	167.4	---	---	0.34	0.270	124.8	164.2	1.1	0.286
4-1850	4-2470	0.678	273.8	-25.4	-1.28	1.278	58.1	0.770	2.983	75.2	168.7	---	---	0.34	0.261	121.6	163.0	1.2	0.276
4-1850	4-2490	0.671	274.1	-25.5	-1.29	1.276	58.5	0.765	2.948	74.6	170.0	---	---	0.34	0.253	118.4	161.7	1.2	0.268
4-1850	4-2510	0.664	274.5	-25.5	-1.30	1.275	58.8	0.761	2.919	74.0	171.2	---	---	0.34	0.247	115.1	160.5	1.3	0.260
4-1850	4-2530	0.657	275.0	-25.6	-1.31	1.274	59.2	0.757	2.897	73.4	172.4	---	---	0.35	0.242	112.0	159.3	1.4	0.254
4-1850	4-2550	0.650	275.5	-25.6	-1.33	1.273	59.6	0.754	2.881	72.6	173.5	---	---	0.35	0.238	108.9	158.1	1.5	0.248
4-1850	4-2570	0.643	276.0	-25.6	-1.34	1.273	60.0	0.750	2.868	71.8	174.5	---	---	0.35	0.235	105.8	157.0	1.5	0.243
4-1850	4-2590	0.636	276.5	-25.7	-1.35	1.272	60.4	0.747	2.859	71.0	175.5	---	---	0.35	0.233	102.9	155.9	1.6	0.239
4-1850	4-2610	0.629	277.1	-25.7	-1.36	1.272	60.8	0.744	2.854	70.2	176.5	---	---	0.36	0.231	100.0	154.9	1.6	0.236
4-1850	4-2630	0.622	277.7	-25.7	-1.37	1.272	61.2	0.742	2.851	69.3	177.4	---	---	0.36	0.231	97.3	154.0	1.7	0.233
4-1850	4-2650	0.615	278.4	-25.7	-1.38	1.272	61.6	0.739	2.850	68.3	178.3	---	---	0.36	0.230	94.7	153.1	1.8	0.231
4-1850	4-2670	0.607	279.1	-25.8	-1.40	1.272	62.1	0.737	2.852	67.4	179.2	---	---	0.37	0.231	92.3	152.3	1.8	0.230
4-1850	4-2690	0.600	279.8	-25.8	-1.41	1.272	62.5	0.734	2.855	66.4	180.0	---	4.952	0.37	0.232	89.9	151.7	1.8	0.229
4-1850	4-2710	0.593	280.5	-25.8	-1.42	1.272	63.0	0.732	2.860	65.3	180.8	---	4.954	0.38	0.233	87.7	151.1	1.9	0.228
4-1850	4-2730	0.585	281.3	-25.8	-1.44	1.273	63.4	0.730	2.866	64.3	181.6	---	4.959	0.39	0.234	85.6	150.6	1.9	0.227
4-1850	4-2750	0.578	282.0	-25.9	-1.45	1.273	63.9	0.728	2.873	63.2	182.4	---	4.966	0.39	0.236	83.7	150.1	1.9	0.227
4-1850	4-2770	0.570	282.9	-25.9	-1.47	1.273	64.4	0.726	2.882	62.1	183.1	---	4.975	0.40	0.238	81.8	149.8	2.0	0.228
4-1850	4-2790	0.563	283.7	-25.9	-1.48	1.274	64.9	0.725	2.891	61.0	183.8	---	4.987	0.41	0.240	80.1	149.6	2.0	0.228
4-1850	4-2810	0.555	284.6	-25.9	-1.50	1.274	65.4	0.723	2.902	59.9	184.5	---	5.000	0.42	0.242	78.5	149.5	2.0	0.229
4-1850	4-2830	0.548	285.5	-25.9	-1.51	1.275	65.8	0.721	2.913	58.7	185.2	---	5.014	0.43	0.244	77.0	149.4	2.0	0.229
4-1850	4-2850	0.540	286.4	-25.9	-1.53	1.275	66.3	0.720	2.924	57.5	185.8	---	5.030	0.44	0.247	75.5	149.5	2.0	0.230
4-1850	4-2870	0.532	287.4	-25.9	-1.55	1.276	66.8	0.719	2.937	56.4	186.5	---	5.047	0.45	0.249	74.2	149.6	2.0	0.231
4-1850	4-2890	0.525	288.4	-25.9	-1.57	1.277	67.3	0.717	2.950	55.1	187.1	---	5.065	0.46	0.252	72.9	149.8	2.0	0.233
4-1850	4-2910	0.517	289.4	-25.9	-1.59	1.277	67.8	0.716	2.963	53.9	187.7	---	5.085	0.47	0.254	71.8	150.0	2.0	0.234
4-1850	4-2930	0.510	290.5	-25.9	-1.61	1.278	68.4	0.715	2.977	52.7	188.3	---	5.105	0.49	0.257	70.6	150.3	2.0	0.235
4-1850	4-2950	0.502	291.6	-25.9	-1.63	1.278	68.9	0.714	2.991	51.5	188.8	---	5.126	0.51	0.260	69.6	150.7	2.0	0.237
4-1850	4-2970	0.495	292.7	-25.9	-1.66	1.279	69.4	0.713	3.006	50.2	189.4	---	5.148	0.52	0.262	68.6	151.2	2.0	0.238
4-1850	4-2990	0.487	293.9	-25.8	-1.68	1.280	69.9	0.712	3.021	48.9	189.9	---	5.171	0.54	0.265	67.7	151.7	2.0	0.240
4-1850	4-3010	0.479	295.1	-25.8	-1.71	1.280	70.4	0.711	3.036	47.7	190.5	---	5.194	0.57	0.267	66.8	152.3	2.0	0.241
4-1850	4-3030	0.472	296.3	-25.8	-1.74	1.281	71.0	0.710	3.052	46.4	191.0	---	5.218	0.59	0.270	66.0	152.9	2.0	0.243
4-1850	4-3050	0.465	297.6	-25.8	-1.78	1.282	71.5	0.709	3.067	45.1	191.5	---	5.242	0.62	0.272	65.2	153.6	2.0	0.245
4-1850	4-3070	0.457	298.9	-25.7	-1.81	1.282	72.0	0.708	3.083	43.8	192.0	---	5.268	0.65	0.275	64.4	154.3	2.0	0.246
4-1850	4-3090	0.450	300.3	-25.7	-1.85	1.283	72.6	0.708	3.099	42.4	192.4	---	5.293	0.68	0.277	63.7	155.0	2.0	0.248
4-1850	4-3110	0.443	301.7	-25.6	-1.90	1.284	73.1	0.707	3.116	41.1	192.9	---	5.319	0.72	0.279	63.0	155.8	2.0	0.249
4-1850	4-3130	0.436	303.1	-25.6	-1.95	1.284	73.7	0.707	3.132	39.8	193.4	---	5.346	0.77	0.282	62.4	156.7	2.0	0.251
4-1850	4-3150	0.429	304.6	-25.6	-2.01	1.285	74.2	0.706	3.149	38.5	193.8	---	5.373	0.82	0.284	61.8	157.6	2.0	0.253
4-1850	4-3170	0.422	306.1	-25.6	-2.07	1.286	74.8	0.706	3.165	37.1	194.2	---	5.400	0.88	0.286	61.2	158.5	2.0	0.254
4-1850	4-3190	0.415	307.7	-25.6	-2.15	1.286	75.3	0.706	3.182	35.8	194.7	---	5.427	0.95	0.288	60.6	159.4	2.0	0.256
4-1850	4-3210	0.409	309.4	-25.6	-2.24	1.287	75.9	0.705	3.199	34.4	195.1	---	5.455	1.03	0.290	60.1	160.4	2.0	0.258
4-1850	4-3230	0.402	311.1	-25.7	-2.34	1.288	76.4	0.705	3.216	33.0	195.5	---	5.484	1.13	0.292	59.6	161.4	2.1	0.259
4-1850	4-3250	0.396	312.9	-25.8	-2.47	1.288	77.0	0.705	3.233	31.7	195.9	---	5.512	1.26	0.294	59.1	162.4	2.1	0.261
4-1850	4-3270	0.390	314.8	-26.0	-2.63	1.289	77.5	0.705	3.250	30.3	196.3	---	5.541	1.41	0.296	58.6	163.5	2.2	0.262
4-1850	4-3290	0.385	316.8	-26.3	-2.83	1.289	78.1	0.705	3.267	28.9	196.6	---	5.571	1.61	0.298	58.1	164.5	2.4	0.264
4-1850	4-3310	0.380	318.9	-26.8	-3.10	1.290	78.7	0.705	3.284	27.5	197.0	---	5.600	1.87	0.300	57.7	165.7	2.6	0.266
4-1850	4-3330	0.375	321.2	-27.6	-3.48	1.291	79.2	0.705	3.301	26.1	197.4	---	5.630	2.24	0.302	57.2	166.8	2.8	0.267
4-1850	4-3350	0.372	323.8	-29.1	-4.03	1.291	79.8	0.705	3.319	24.7	197.7	---	5.660	2.79	0.304	56.8	168.0	3.3	0.269
4-1850	4-3370	0.371	326.9	-31.6	-4.94	1.292	80.4	0.706	3.336	23.4	198.0	---	5.690	3.70	0.305	56.4	169.2	4.1	0.271
4-1850	4-3390	0.377	331.2	-36.9	-6.73	1.292	80.9	0.706	3.353	22.0	198.4	---	5.721	5.48	0.307	56.0	170.5	5.6	0.273
4-1850	4-3410	0.418	340.6	-50.7	-11.80	1.293	81.5	0.706	3.370	20.6	198.7	---	5.751	10.54	0.309	55.6	172.4	10.0	0.280
4-1850	4-3430	1.371	148.5	-58.4	-72.49	1.294	82.0	0.707	3.387	19.4	199.0	---	5.783	71.23	0.310	55.2	191.6	29.6	0.479
4-1850	4-3450	0.400	314.7	21.6	10.80	1.294	82.7	0.707	3.405	17.7	199.3	---	5.813	-12.06	0.312	54.9	174.0	-10.5	0.285
4-1860	4-2180	0.928	278.9	-24.6	-1.22	1.397	48.4	0.99162.953		83.8	141.5	---	---	0.15	0.619	160.0	173.5	0.4	0.644
4-1860	4-2200	0.909	278.1	-24.6	-1.22	1.375	48.6	0.95713.038		85.1	144.6	---	---	0.15	0.568	158.4	173.1	0.4	0.595
4-1860	4-2220	0.892	277.5	-24.7	-1.23	1.357	48.8	0.929	7.919	86.3	147.6	---	---	0.15	0.523	156.6	172.6	0.4	0.552
4-1860	4-2240	0.877	277.0	-24.7	-1.23	1.342	49.1	0.907	5.989	87.1	150.2	---	---	0.14	0.483	154.7	172.1	0.5	0.514
4-1860	4-2260	0.864	276.7	-24.8	-1.24	1.329	49.4	0.888	4.987	87.8	152.7	---	---	0.14	0.447	152.7	171.4	0.5	0.480
4-1860	4-2280	0.852	276.4	-24.8	-1.24	1.319	49.6	0.873	4.380	88.3	155.0	---	---	0.14	0.416	150.5	170.7	0.6	0.450
4-1860	4-2300	0.841	276.3	-24.8	-1.25	1.310	49.9	0.860	3.977	88.5	157.1	---	---	0.14	0.387	148.1	169.9	0.6	0.423
4-1860	4-2320	0.831	276.2	-24.8	-1.25	1.303	50.2	0.848	3.694	88.7	159.0	---	---	0.14	0.362	145.6	169.0	0.7	0.399
4-1860	4-2340	0.822	276.2	-24.9	-1.26	1.296	50.6	0.838	3.487	88.7	160.8	---	---	0.14	0.339	142.9	168.1	0.7	0.378
4-1860	4-2360	0.812	276.3	-24.9	-1.26	1.291	50.9	0.830	3.331	88.5	162.5	---	---	0.13	0.319	140.1	167.1	0.8	0.359
4-1860	4-2380	0.803	276.4	-24.9	-1.27	1.287	51.3	0.822	3.211	88.3	164.1	---	---	0.13	0.302	137.1	166.0	0.8	0.342

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

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1870	4-2710	0.750	288.7	-24.1	-1.29	1.268	53.9	0.781	2.784	85.1	181.5	---	4.959	-0.09	0.211	84.5	148.8	1.5	0.251
4-1870	4-2730	0.741	289.4	-24.1	-1.29	1.268	54.4	0.779	2.792	84.0	182.2	---	4.966	-0.09	0.214	82.3	148.5	1.5	0.250
4-1870	4-2750	0.732	290.1	-24.0	-1.29	1.269	55.0	0.776	2.802	82.8	182.9	---	4.976	-0.09	0.216	80.2	148.3	1.5	0.250
4-1870	4-2770	0.723	290.8	-24.0	-1.28	1.270	55.5	0.773	2.813	81.6	183.5	---	4.988	-0.09	0.219	78.3	148.2	1.5	0.250
4-1870	4-2790	0.714	291.5	-23.9	-1.28	1.270	56.0	0.771	2.825	80.4	184.1	---	5.001	-0.09	0.222	76.5	148.1	1.5	0.250
4-1870	4-2810	0.705	292.2	-23.8	-1.28	1.271	56.6	0.768	2.837	79.2	184.8	---	5.016	-0.09	0.225	74.8	148.1	1.5	0.250
4-1870	4-2830	0.696	292.9	-23.8	-1.27	1.271	57.2	0.766	2.850	78.0	185.4	---	5.032	-0.09	0.229	73.3	148.2	1.5	0.251
4-1870	4-2850	0.687	293.7	-23.7	-1.27	1.272	57.7	0.763	2.864	76.7	185.9	---	5.050	-0.09	0.232	71.8	148.4	1.5	0.252
4-1870	4-2870	0.678	294.5	-23.6	-1.27	1.273	58.3	0.761	2.878	75.5	186.5	---	5.068	-0.09	0.235	70.5	148.7	1.5	0.252
4-1870	4-2890	0.669	295.2	-23.5	-1.27	1.273	58.8	0.759	2.893	74.2	187.1	---	5.088	-0.10	0.238	69.3	149.0	1.5	0.253
4-1870	4-2910	0.660	296.0	-23.4	-1.26	1.274	59.4	0.757	2.908	72.9	187.6	---	5.108	-0.10	0.242	68.1	149.3	1.5	0.254
4-1870	4-2930	0.651	296.9	-23.3	-1.26	1.275	59.9	0.755	2.923	71.6	188.1	---	5.130	-0.10	0.245	67.1	149.8	1.5	0.255
4-1870	4-2950	0.642	297.7	-23.2	-1.25	1.276	60.5	0.753	2.939	70.4	188.7	---	5.152	-0.10	0.248	66.1	150.3	1.4	0.256
4-1870	4-2970	0.633	298.6	-23.1	-1.25	1.276	61.1	0.751	2.956	69.1	189.2	---	5.175	-0.10	0.251	65.2	150.8	1.4	0.257
4-1870	4-2990	0.624	299.4	-23.0	-1.25	1.277	61.6	0.749	2.972	67.7	189.7	---	5.198	-0.10	0.254	64.3	151.4	1.4	0.258
4-1870	4-3010	0.615	300.3	-22.9	-1.24	1.278	62.2	0.747	2.989	66.4	190.2	---	5.222	-0.11	0.257	63.5	152.0	1.3	0.259
4-1870	4-3030	0.606	301.2	-22.7	-1.24	1.278	62.8	0.745	3.006	65.1	190.7	---	5.247	-0.11	0.260	62.7	152.7	1.3	0.261
4-1870	4-3050	0.597	302.1	-22.6	-1.24	1.279	63.3	0.744	3.023	63.8	191.1	---	5.272	-0.11	0.263	62.0	153.5	1.3	0.262
4-1870	4-3070	0.588	303.1	-22.4	-1.23	1.280	63.9	0.742	3.040	62.5	191.6	---	5.297	-0.11	0.266	61.4	154.2	1.2	0.263
4-1870	4-3090	0.579	304.0	-22.3	-1.23	1.281	64.5	0.741	3.058	61.1	192.0	---	5.323	-0.12	0.269	60.7	155.0	1.2	0.264
4-1870	4-3110	0.570	305.0	-22.1	-1.22	1.281	65.0	0.739	3.076	59.8	192.5	---	5.349	-0.12	0.272	60.1	155.9	1.1	0.265
4-1870	4-3130	0.561	306.0	-21.9	-1.22	1.282	65.6	0.738	3.093	58.4	192.9	---	5.376	-0.12	0.274	59.6	156.8	1.1	0.266
4-1870	4-3150	0.553	307.0	-21.7	-1.21	1.283	66.2	0.736	3.111	57.1	193.3	---	5.403	-0.13	0.277	59.0	157.7	1.1	0.268
4-1870	4-3170	0.544	308.1	-21.5	-1.20	1.284	66.8	0.735	3.129	55.7	193.8	---	5.430	-0.13	0.280	58.5	158.6	1.0	0.269
4-1870	4-3190	0.535	309.1	-21.3	-1.20	1.284	67.3	0.734	3.147	54.3	194.2	---	5.457	-0.14	0.282	58.1	159.6	0.9	0.270
4-1870	4-3210	0.527	310.2	-21.1	-1.19	1.285	67.9	0.733	3.165	53.0	194.6	---	5.485	-0.14	0.284	57.6	160.6	0.9	0.271
4-1870	4-3230	0.518	311.3	-20.9	-1.18	1.286	68.5	0.732	3.184	51.6	195.0	---	5.513	-0.15	0.287	57.2	161.6	0.8	0.272
4-1870	4-3250	0.510	312.5	-20.6	-1.18	1.286	69.1	0.731	3.202	50.2	195.4	---	5.541	-0.15	0.289	56.8	162.6	0.8	0.273
4-1870	4-3270	0.501	313.6	-20.3	-1.17	1.287	69.6	0.730	3.220	48.8	195.7	---	5.570	-0.16	0.291	56.4	163.7	0.7	0.274
4-1870	4-3290	0.493	314.8	-20.1	-1.16	1.288	70.2	0.729	3.238	47.5	196.1	---	5.599	-0.17	0.294	56.0	164.8	0.7	0.276
4-1870	4-3310	0.485	316.0	-19.8	-1.15	1.288	70.8	0.728	3.257	46.1	196.5	---	5.628	-0.18	0.296	55.6	165.9	0.6	0.277
4-1870	4-3330	0.477	317.3	-19.4	-1.14	1.289	71.4	0.727	3.275	44.7	196.8	---	5.657	-0.19	0.298	55.3	167.0	0.5	0.278
4-1870	4-3350	0.469	318.6	-19.1	-1.12	1.290	72.0	0.727	3.293	43.3	197.2	---	5.686	-0.20	0.300	54.9	168.1	0.5	0.279
4-1870	4-3370	0.461	319.8	-18.7	-1.11	1.290	72.5	0.726	3.311	41.9	197.5	---	5.716	-0.21	0.302	54.6	169.3	0.4	0.280
4-1870	4-3390	0.453	321.2	-18.3	-1.09	1.291	73.1	0.725	3.330	40.5	197.9	---	5.745	-0.23	0.303	54.3	170.4	0.3	0.281
4-1870	4-3410	0.445	322.5	-17.9	-1.07	1.292	73.7	0.725	3.348	39.1	198.2	---	5.775	-0.25	0.305	54.0	171.6	0.2	0.282
4-1870	4-3430	0.437	323.9	-17.5	-1.05	1.292	74.3	0.724	3.366	37.7	198.5	---	5.805	-0.27	0.307	53.7	172.8	0.1	0.283
4-1870	4-3450	0.430	325.3	-17.0	-1.02	1.293	74.9	0.724	3.385	36.3	198.8	---	5.835	-0.29	0.309	53.4	174.0	0.1	0.284
4-1870	4-3470	0.423	326.8	-16.5	-0.99	1.294	75.4	0.724	3.403	34.9	199.1	---	5.865	-0.32	0.311	53.1	175.3	-0.0	0.285
4-1880	4-2200	1.157	284.3	-23.9	-1.63	1.374	34.4	0.97512.649		113.5	153.9	---	---	-0.47	0.566	163.8	169.4	0.4	0.632
4-1880	4-2220	1.133	284.1	-23.9	-1.60	1.354	35.0	0.958	7.507	113.9	156.1	---	---	-0.45	0.517	162.2	168.8	0.5	0.586
4-1880	4-2240	1.111	284.0	-23.9	-1.58	1.338	35.6	0.943	5.647	114.0	158.1	---	---	-0.44	0.473	160.4	168.1	0.5	0.546
4-1880	4-2260	1.092	284.0	-23.9	-1.56	1.325	36.2	0.930	4.696	114.0	159.9	---	---	-0.42	0.433	158.4	167.3	0.5	0.511
4-1880	4-2280	1.074	284.1	-23.9	-1.55	1.314	36.7	0.919	4.127	113.9	161.5	---	---	-0.41	0.398	156.3	166.5	0.6	0.479
4-1880	4-2300	1.059	284.2	-24.0	-1.53	1.304	37.3	0.910	3.753	113.6	163.1	---	---	-0.40	0.367	153.9	165.6	0.6	0.451
4-1880	4-2320	1.044	284.4	-23.9	-1.51	1.297	37.9	0.901	3.492	113.2	164.5	---	---	-0.39	0.339	151.4	164.6	0.7	0.427
4-1880	4-2340	1.030	284.6	-23.9	-1.50	1.290	38.5	0.894	3.302	112.7	165.8	---	---	-0.38	0.315	148.6	163.6	0.7	0.405
4-1880	4-2360	1.017	284.9	-23.9	-1.48	1.285	39.0	0.887	3.161	112.2	167.0	---	---	-0.37	0.293	145.6	162.6	0.8	0.385
4-1880	4-2380	1.004	285.2	-23.9	-1.47	1.281	39.6	0.880	3.053	111.5	168.2	---	---	-0.36	0.274	142.4	161.5	0.8	0.368
4-1880	4-2400	0.992	285.5	-23.9	-1.46	1.277	40.2	0.874	2.969	110.8	169.3	---	---	-0.35	0.257	138.9	160.4	0.9	0.353
4-1880	4-2420	0.981	285.9	-23.9	-1.44	1.274	40.7	0.868	2.904	110.0	170.4	---	---	-0.35	0.242	135.3	159.3	0.9	0.340
4-1880	4-2440	0.970	286.3	-23.8	-1.43	1.272	41.3	0.863	2.854	109.2	171.4	---	---	-0.34	0.229	131.5	158.1	1.0	0.328
4-1880	4-2460	0.959	286.8	-23.8	-1.42	1.270	41.9	0.858	2.814	108.3	172.3	---	---	-0.34	0.219	127.5	157.0	1.0	0.318
4-1880	4-2480	0.948	287.2	-23.8	-1.41	1.268	42.4	0.853	2.784	107.4	173.2	---	---	-0.33	0.210	123.4	156.0	1.1	0.309
4-1880	4-2500	0.938	287.7	-23.7	-1.39	1.267	43.0	0.849	2.760	106.5	174.1	---	---	-0.33	0.203	119.2	154.9	1.1	0.301
4-1880	4-2520	0.927	288.2	-23.7	-1.38	1.266	43.6	0.844	2.743	105.5	175.0	---	---	-0.32	0.198	115.0	153.9	1.2	0.294
4-1880	4-2540	0.917	288.7	-23.7	-1.37	1.266	44.2	0.840	2.731	104.5	175.8	---	---	-0.32	0.194	110.9	153.0	1.2	0.288
4-1880	4-2560	0.907	289.2	-23.6	-1.36	1.265	44.7	0.836	2.722	103.4	176.6	---	---	-0.32	0.191	106.9	152.1	1.2	0.283
4-1880	4-2580	0.897	289.8	-23.6	-1.35	1.265	45.3	0.832	2.717	102.3	177.3	---	---	-0.31	0.189	103.0	151.3	1.3	0.279
4-1880	4-2600	0.887	290.3	-23.5	-1.34	1.265	45.9	0.828	2.716	101.2	178.1	---	---	-0.31	0.189	99.3	150.5	1.3	0.276
4-1880	4-2620	0.877	290.9	-23.5	-1.33	1.265	46.5	0.825	2.716	100.1	178.8	---	---	-0.31	0.189	95.7	149.8	1.3	0.273
4-1880	4-2640	0.867	291.5	-23.4	-1.32	1.265	47.1	0.821	2.719	99.0	179.5	---	---	-0.31	0.190	92.4	149.3	1.4	0.270
4-1880	4-2660	0.857	292.1	-23.3	-1.31	1.265	47.6	0.818	2.724	97.8	180.1	---	4.951	-0.31	0.192	89.3	148.8	1.4	0.268
4-1880	4-2680	0.848	292.7	-23.3	-1.30	1.266	48.2	0.814	2.730	96.7	180.8	---	4.954	-0.30	0.194	86.4	148.3	1.4	0.267
4-1880	4-2700	0.838	293.3	-23.2	-1.29	1.266	48.8	0.811	2.738	95.5	181.5	---	4.959	-0.30	0.197	83.8	148.0	1.4	0.266
4-1880	4-2720	0.828	293.9	-23.1	-1.28	1.266	49.4	0.808	2.747	94.3	182.1	---	4.967	-0.30	0.200	81.3	147.7	1.4	0.265
4-1880	4-2740	0.818	294.6	-23.1	-1.27	1.267	50.0	0.805	2.758	93.1	182.7	---	4.977	-0.30	0.203	79.0	147.6	1.4	0.264
4-1880	4-2760	0.809	295.2	-23.0	-1.26	1.268	50.6	0.802	2.769	91.8	183.3	---	4.989	-0.30	0.206	77.0	147.5	1.4	0.264
4-1880	4-2780	0.799	295.9	-22.9	-1.25	1.268	51.2	0.799	2.781	90.6	183.9	---	5.002	-0.30	0.210	75.0	147.5	1.4	0.264
4-1880	4-2800	0.789	296.6	-22.8	-1.24	1.269	51.7	0.796	2.794	89.4	184.5	---	5.017	-0.30	0.213	73.3	147.5	1.4	0.264
4-1880	4-2820	0.780	297.3	-22.7	-1.23	1.270	52.3	0.793	2.808	88.1	185.0	---	5.034	-0.30	0.217	71.7	147.7	1.4	0.264
4-1880	4-2840	0.770	298.0	-22.6	-1.22	1.270	52.9	0.790	2.822	86.8	185.6	---	5.052	-0.31	0.221	70.2	147.9	1.4	0.264
4-1880	4-2860	0.760	298.7	-22.5	-1.21	1.271	53.5	0.787	2.837	85.5	186.1	---	5.071	-0.31	0.224	68.8	148.2	1.4	0.265
4-1880	4-2880	0.751	299.4	-22.4	-1.20	1.272	54.1	0.785	2.852	84.3	186.7	---	5.091	-0.31	0.228	67.5	148.5	1.4	0.266
4-1880	4-2900	0.741	300.1	-22.3	-1.19	1.272	54.7	0.782	2.868	83.0	187.2	---	5.111	-0.31	0.232	66.4	148.9	1.3	0.266
4-1880	4-2920	0.731	300.9	-22.1	-1.18	1.273	55.3	0.780	2.884	81.7	187.7	---	5.133	-0.32	0.235	65.3	149.4	1.3	0.267
4-1880	4-2940	0.722	301.6	-22.0	-1.17	1.274	55.9	0.777	2.901	80.3	188.2	---	5.155	-0.32	0.239	64.3	149.9	1.3	0.268
4-1880	4-2960	0.712	302.4	-21.9	-1.16	1.275	56.5	0.775	2.918	79.0	188.7	---	5.178	-0.32	0.243	63.4	150.4	1.3	0.269
4-1880	4-2980	0.703	303.2	-21.8	-1.15	1.276	57.1	0.772	2.935	77.7	189.2	---	5.202	-0.33	0.246	62.5	151.0	1.2	0.269
4-1880	4-3000	0.693	303.9	-21.6	-1.14	1.276	57.6	0.770	2.952	76.4	189.7	---	5.226	-0.33	0.249	61.7	151.7	1.2	0.270

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1880	4-3020	0.684	304.7	-21.5	-1.13	1.277	58.2	0.768	2.970	75.0	190.1	---	5.251	-0.33	0.253	61.0	152.4	1.1	0.271
4-1880	4-3040	0.674	305.5	-21.3	-1.12	1.278	58.8	0.766	2.988	73.7	190.6	---	5.276	-0.34	0.256	60.3	153.1	1.1	0.272
4-1880	4-3060	0.665	306.4	-21.1	-1.10	1.279	59.4	0.764	3.006	72.4	191.1	---	5.302	-0.35	0.259	59.6	153.9	1.1	0.273
4-1880	4-3080	0.655	307.2	-21.0	-1.09	1.279	60.0	0.762	3.024	71.0	191.5	---	5.327	-0.35	0.262	59.0	154.7	1.0	0.274
4-1880	4-3100	0.646	308.1	-20.8	-1.08	1.280	60.6	0.760	3.042	69.6	191.9	---	5.354	-0.36	0.265	58.5	155.6	1.0	0.275
4-1880	4-3120	0.636	308.9	-20.6	-1.06	1.281	61.2	0.758	3.060	68.3	192.4	---	5.380	-0.37	0.268	58.0	156.5	0.9	0.276
4-1880	4-3140	0.627	309.8	-20.4	-1.05	1.282	61.8	0.756	3.079	66.9	192.8	---	5.407	-0.37	0.271	57.5	157.4	0.9	0.277
4-1880	4-3160	0.618	310.7	-20.2	-1.04	1.283	62.4	0.755	3.097	65.6	193.2	---	5.435	-0.38	0.274	57.0	158.3	0.8	0.278
4-1880	4-3180	0.608	311.6	-20.0	-1.02	1.283	63.0	0.753	3.116	64.2	193.6	---	5.462	-0.39	0.277	56.5	159.3	0.8	0.279
4-1880	4-3200	0.599	312.5	-19.7	-1.00	1.284	63.5	0.751	3.135	62.8	194.0	---	5.490	-0.40	0.279	56.1	160.3	0.7	0.280
4-1880	4-3220	0.590	313.5	-19.5	-0.99	1.285	64.1	0.750	3.153	61.4	194.4	---	5.518	-0.41	0.282	55.7	161.3	0.6	0.281
4-1880	4-3240	0.581	314.4	-19.2	-0.97	1.286	64.7	0.748	3.172	60.1	194.8	---	5.546	-0.43	0.284	55.4	162.3	0.6	0.282
4-1880	4-3260	0.571	315.4	-19.0	-0.95	1.286	65.3	0.747	3.191	58.7	195.2	---	5.574	-0.44	0.287	55.0	163.4	0.5	0.282
4-1880	4-3280	0.562	316.4	-18.7	-0.93	1.287	65.9	0.746	3.210	57.3	195.5	---	5.603	-0.45	0.289	54.7	164.5	0.4	0.283
4-1880	4-3300	0.553	317.4	-18.4	-0.91	1.288	66.5	0.744	3.229	55.9	195.9	---	5.632	-0.47	0.292	54.3	165.5	0.4	0.284
4-1880	4-3320	0.544	318.4	-18.1	-0.89	1.288	67.1	0.743	3.248	54.5	196.3	---	5.661	-0.49	0.294	54.0	166.7	0.3	0.285
4-1880	4-3340	0.536	319.5	-17.8	-0.86	1.289	67.7	0.742	3.267	53.1	196.6	---	5.690	-0.51	0.296	53.7	167.8	0.2	0.286
4-1880	4-3360	0.527	320.5	-17.4	-0.83	1.290	68.3	0.741	3.285	51.7	197.0	---	5.719	-0.53	0.298	53.4	168.9	0.1	0.287
4-1880	4-3380	0.518	321.6	-17.0	-0.80	1.290	68.9	0.740	3.304	50.3	197.3	---	5.748	-0.56	0.300	53.2	170.1	0.1	0.288
4-1880	4-3400	0.509	322.7	-16.7	-0.77	1.291	69.4	0.739	3.323	48.9	197.6	---	5.778	-0.58	0.302	52.9	171.3	-0.0	0.288
4-1880	4-3420	0.501	323.8	-16.2	-0.74	1.292	70.0	0.738	3.342	47.5	198.0	---	5.808	-0.61	0.304	52.6	172.5	-0.1	0.289
4-1880	4-3440	0.492	325.0	-15.8	-0.70	1.292	70.6	0.737	3.361	46.1	198.3	---	5.837	-0.65	0.306	52.4	173.7	-0.2	0.290
4-1880	4-3460	0.484	326.1	-15.3	-0.65	1.293	71.2	0.736	3.379	44.7	198.6	---	5.867	-0.69	0.308	52.2	174.9	-0.3	0.291
4-1880	4-3480	0.476	327.3	-14.8	-0.60	1.294	71.8	0.735	3.398	43.3	198.9	---	5.897	-0.73	0.309	51.9	176.1	-0.4	0.292
4-1890	4-2210	1.274	288.0	-23.4	-2.02	1.366	27.2	0.979	9.604	128.2	160.0	---	---	-0.97	0.544	166.5	167.2	0.5	0.634
4-1890	4-2230	1.247	288.1	-23.4	-1.97	1.347	28.0	0.967	6.411	128.0	161.6	---	---	-0.92	0.494	165.0	166.4	0.5	0.589
4-1890	4-2250	1.223	288.2	-23.4	-1.92	1.331	28.7	0.957	5.053	127.6	163.0	---	---	-0.88	0.450	163.2	165.7	0.6	0.550
4-1890	4-2270	1.201	288.3	-23.4	-1.87	1.318	29.5	0.948	4.310	127.1	164.3	---	---	-0.84	0.411	161.2	164.8	0.6	0.516
4-1890	4-2290	1.182	288.6	-23.4	-1.83	1.307	30.2	0.940	3.848	126.5	165.5	---	---	-0.81	0.376	159.1	163.9	0.6	0.485
4-1890	4-2310	1.164	288.8	-23.4	-1.79	1.299	31.0	0.933	3.537	125.9	166.7	---	---	-0.78	0.345	156.7	163.0	0.7	0.458
4-1890	4-2330	1.147	289.1	-23.3	-1.76	1.291	31.7	0.926	3.318	125.1	167.8	---	---	-0.75	0.317	154.1	162.0	0.7	0.435
4-1890	4-2350	1.131	289.5	-23.3	-1.72	1.286	32.4	0.919	3.156	124.3	168.8	---	---	-0.73	0.292	151.2	160.9	0.8	0.414
4-1890	4-2370	1.116	289.8	-23.3	-1.69	1.281	33.1	0.913	3.035	123.5	169.7	---	---	-0.70	0.270	148.1	159.9	0.8	0.395
4-1890	4-2390	1.102	290.2	-23.2	-1.66	1.277	33.8	0.908	2.943	122.6	170.7	---	---	-0.68	0.251	144.6	158.8	0.8	0.379
4-1890	4-2410	1.089	290.7	-23.2	-1.63	1.273	34.4	0.902	2.872	121.7	171.5	---	---	-0.67	0.234	140.9	157.7	0.9	0.364
4-1890	4-2430	1.076	291.1	-23.1	-1.60	1.271	35.1	0.897	2.817	120.7	172.4	---	---	-0.65	0.219	136.9	156.7	0.9	0.352
4-1890	4-2450	1.063	291.6	-23.1	-1.58	1.268	35.8	0.892	2.774	119.7	173.2	---	---	-0.63	0.207	132.7	155.6	1.0	0.340
4-1890	4-2470	1.051	292.1	-23.0	-1.55	1.267	36.4	0.887	2.741	118.6	174.0	---	---	-0.62	0.196	128.2	154.6	1.0	0.331
4-1890	4-2490	1.039	292.6	-23.0	-1.53	1.265	37.1	0.882	2.716	117.6	174.8	---	---	-0.61	0.188	123.6	153.6	1.1	0.322
4-1890	4-2510	1.028	293.1	-22.9	-1.51	1.264	37.8	0.878	2.698	116.5	175.5	---	---	-0.59	0.181	119.0	152.7	1.1	0.315
4-1890	4-2530	1.016	293.6	-22.8	-1.49	1.264	38.4	0.874	2.684	115.3	176.2	---	---	-0.58	0.177	114.3	151.8	1.1	0.308
4-1890	4-2550	1.005	294.2	-22.8	-1.46	1.263	39.1	0.869	2.675	114.2	176.9	---	---	-0.57	0.173	109.6	151.0	1.2	0.303
4-1890	4-2570	0.994	294.7	-22.7	-1.44	1.263	39.7	0.865	2.670	113.1	177.6	---	---	-0.56	0.171	105.1	150.2	1.2	0.298
4-1890	4-2590	0.983	295.3	-22.6	-1.43	1.263	40.4	0.861	2.668	111.9	178.2	---	---	-0.56	0.171	100.8	149.5	1.2	0.294
4-1890	4-2610	0.972	295.9	-22.5	-1.41	1.263	41.0	0.857	2.669	110.7	178.9	---	---	-0.55	0.171	96.7	148.9	1.3	0.291
4-1890	4-2630	0.961	296.4	-22.5	-1.39	1.263	41.6	0.853	2.672	109.5	179.5	---	---	-0.54	0.172	92.8	148.4	1.3	0.288
4-1890	4-2650	0.950	297.0	-22.4	-1.37	1.263	42.3	0.850	2.677	108.3	180.1	---	4.951	-0.54	0.174	89.2	147.9	1.3	0.286
4-1890	4-2670	0.940	297.6	-22.3	-1.35	1.264	42.9	0.846	2.684	107.1	180.7	---	4.953	-0.53	0.177	86.0	147.6	1.3	0.284
4-1890	4-2690	0.929	298.2	-22.2	-1.33	1.264	43.6	0.842	2.692	105.8	181.3	---	4.959	-0.53	0.180	82.9	147.3	1.3	0.282
4-1890	4-2710	0.919	298.8	-22.1	-1.32	1.265	44.2	0.839	2.701	104.6	181.9	---	4.967	-0.52	0.183	80.2	147.1	1.3	0.281
4-1890	4-2730	0.908	299.5	-22.0	-1.30	1.265	44.8	0.835	2.712	103.3	182.5	---	4.977	-0.52	0.187	77.7	147.0	1.3	0.280
4-1890	4-2750	0.898	300.1	-21.9	-1.28	1.266	45.5	0.832	2.724	102.0	183.0	---	4.989	-0.52	0.191	75.4	146.9	1.3	0.280
4-1890	4-2770	0.887	300.7	-21.8	-1.27	1.266	46.1	0.828	2.736	100.8	183.6	---	5.003	-0.51	0.195	73.3	146.9	1.3	0.279
4-1890	4-2790	0.877	301.4	-21.7	-1.25	1.267	46.7	0.825	2.750	99.5	184.1	---	5.019	-0.51	0.199	71.4	147.1	1.3	0.279
4-1890	4-2810	0.867	302.0	-21.5	-1.23	1.268	47.3	0.822	2.764	98.2	184.7	---	5.036	-0.51	0.204	69.7	147.2	1.3	0.279
4-1890	4-2830	0.857	302.7	-21.4	-1.22	1.269	48.0	0.819	2.779	96.9	185.2	---	5.054	-0.51	0.208	68.1	147.5	1.3	0.279
4-1890	4-2850	0.846	303.3	-21.3	-1.20	1.269	48.6	0.816	2.794	95.6	185.7	---	5.073	-0.51	0.212	66.7	147.8	1.3	0.279
4-1890	4-2870	0.836	304.0	-21.2	-1.18	1.270	49.2	0.813	2.810	94.3	186.2	---	5.093	-0.51	0.216	65.4	148.1	1.3	0.280
4-1890	4-2890	0.826	304.7	-21.0	-1.17	1.271	49.9	0.810	2.826	92.9	186.7	---	5.114	-0.51	0.221	64.2	148.5	1.2	0.280
4-1890	4-2910	0.816	305.4	-20.9	-1.15	1.272	50.5	0.807	2.843	91.6	187.2	---	5.136	-0.51	0.225	63.1	149.0	1.2	0.281
4-1890	4-2930	0.805	306.1	-20.8	-1.14	1.273	51.1	0.804	2.860	90.3	187.7	---	5.159	-0.51	0.229	62.1	149.5	1.2	0.281
4-1890	4-2950	0.795	306.8	-20.6	-1.12	1.273	51.7	0.801	2.877	88.9	188.2	---	5.182	-0.52	0.233	61.2	150.1	1.2	0.282
4-1890	4-2970	0.785	307.5	-20.4	-1.10	1.274	52.3	0.798	2.895	87.6	188.6	---	5.206	-0.52	0.237	60.3	150.7	1.1	0.282
4-1890	4-2990	0.775	308.2	-20.3	-1.09	1.275	53.0	0.796	2.913	86.2	189.1	---	5.231	-0.52	0.240	59.6	151.4	1.1	0.283
4-1890	4-3010	0.765	308.9	-20.1	-1.07	1.276	53.6	0.793	2.931	84.9	189.6	---	5.256	-0.53	0.244	58.8	152.1	1.0	0.284
4-1890	4-3030	0.755	309.7	-20.0	-1.05	1.277	54.2	0.791	2.949	83.5	190.0	---	5.281	-0.53	0.248	58.2	152.9	1.0	0.284
4-1890	4-3050	0.745	310.4	-19.8	-1.03	1.278	54.8	0.788	2.968	82.2	190.4	---	5.307	-0.54	0.251	57.6	153.7	1.0	0.285
4-1890	4-3070	0.735	311.2	-19.6	-1.02	1.278	55.4	0.786	2.987	80.8	190.9	---	5.333	-0.54	0.255	57.0	154.5	0.9	0.286
4-1890	4-3090	0.725	311.9	-19.4	-1.00	1.279	56.0	0.783	3.005	79.5	191.3	---	5.360	-0.55	0.258	56.5	155.3	0.9	0.286
4-1890	4-3110	0.715	312.7	-19.2	-0.98	1.280	56.6	0.781	3.024	78.1	191.7	---	5.387	-0.56	0.261	56.0	156.2	0.8	0.287
4-1890	4-3130	0.705	313.5	-19.0	-0.96	1.281	57.3	0.779	3.043	76.7	192.1	---	5.414	-0.56	0.265	55.5	157.1	0.8	0.288
4-1890	4-3150	0.695	314.2	-18.8	-0.94	1.282	57.9	0.777	3.063	75.3	192.6	---	5.441	-0.57	0.268	55.1	158.1	0.7	0.289
4-1890	4-3170	0.685	315.0	-18.6	-0.92	1.283	58.5	0.775	3.082	74.0	193.0	---	5.469	-0.58	0.271	54.7	159.0	0.7	0.289
4-1890	4-3190	0.675	315.8	-18.3	-0.90	1.283	59.1	0.773	3.101	72.6	193.4	---	5.497	-0.59	0.274	54.3	160.0	0.6	0.290
4-1890	4-3210	0.666	316.7	-18.1	-0.88	1.284	59.7	0.771	3.120	71.2	193.7	---	5.525	-0.60	0.276	53.9	161.0	0.5	0.291
4-1890	4-3230	0.656	317.5	-17.9	-0.85	1.285	60.3	0.769	3.140	69.8	194.1	---	5.553	-0.62	0.279	53.6	162.1	0.5	0.291
4-1890	4-3250	0.646	318.3	-17.6	-0.83	1.286	60.9	0.767	3.159	68.4	194.5	---	5.581	-0.63	0.282	53.3	163.1	0.4	0.292
4-1890	4-3270	0.637	319.2	-17.3	-0.81	1.286	61.5	0.765	3.178	67.1	194.9	---	5.610	-0.64	0.284	53.0	164.2	0.3	0.293
4-1890	4-3290	0.627	320.1	-17.0	-0.78	1.287	62.1	0.763	3.198	65.7	195.2	---	5.639	-0.66	0.287	52.7	165.3	0.3	0.293
4-1890	4-3310	0.617	320.9	-16.8	-0.75	1.288	62.7	0.762	3.217	64.3	195.6	---	5.667	-0.68	0.289	52.4	166.4	0.2	0.294

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2100	4-2500	0.840	323.3	-10.7	2.66	1.415	125.1	0.98647	1.123	289.2	498.3	0.660	---	-2.12	0.618	158.1	203.1	-2.0	0.622
4-2100	4-2520	0.810	323.0	-10.8	2.53	1.396	124.1	0.95113	3.796	289.8	500.7	0.670	---	-2.01	0.575	156.3	203.1	-2.0	0.578
4-2100	4-2540	0.783	322.8	-11.0	2.41	1.381	123.2	0.921	8.654	290.4	503.0	0.680	---	-1.91	0.537	154.5	203.1	-2.0	0.539
4-2100	4-2560	0.760	322.5	-11.1	2.30	1.368	122.4	0.895	6.583	290.9	505.4	0.688	---	-1.82	0.502	152.6	203.0	-2.0	0.504
4-2100	4-2580	0.741	322.3	-11.2	2.20	1.356	121.7	0.873	5.472	291.3	507.6	0.695	---	-1.74	0.470	150.7	202.8	-2.0	0.472
4-2100	4-2600	0.724	322.2	-11.3	2.11	1.347	121.1	0.853	4.786	291.6	509.8	0.701	---	-1.67	0.442	148.6	202.5	-2.0	0.443
4-2100	4-2620	0.709	322.0	-11.5	2.03	1.338	120.6	0.837	4.323	291.9	511.9	0.707	---	-1.60	0.416	146.4	202.0	-2.0	0.416
4-2100	4-2640	0.697	322.0	-11.6	1.95	1.331	120.2	0.822	3.993	292.1	513.9	0.711	---	-1.54	0.392	144.1	201.5	-2.0	0.392
4-2100	4-2660	0.687	321.9	-11.7	1.88	1.325	119.8	0.809	3.749	292.3	515.9	0.714	---	-1.49	0.370	141.7	200.8	-2.0	0.370
4-2100	4-2680	0.678	321.9	-11.7	1.81	1.320	119.5	0.799	3.561	292.3	517.8	0.717	---	-1.44	0.351	139.2	200.0	-2.0	0.351
4-2100	4-2700	0.672	322.0	-11.8	1.75	1.315	119.3	0.790	3.415	292.3	519.7	0.718	---	-1.40	0.333	136.6	199.0	-2.0	0.333
4-2100	4-2720	0.666	322.0	-11.9	1.69	1.311	119.2	0.782	3.299	292.3	521.4	0.720	---	-1.36	0.317	133.9	198.0	-1.9	0.318
4-2100	4-2740	0.662	322.1	-11.9	1.64	1.308	119.1	0.775	3.206	292.1	523.1	0.720	---	-1.33	0.303	131.1	196.8	-1.9	0.303
4-2100	4-2760	0.660	322.3	-12.0	1.58	1.305	119.0	0.770	3.130	291.9	524.7	0.719	---	-1.29	0.290	128.3	195.6	-1.8	0.291
4-2100	4-2780	0.658	322.5	-12.0	1.53	1.302	119.0	0.766	3.068	291.7	526.3	0.718	---	-1.26	0.279	125.3	194.2	-1.8	0.280
4-2100	4-2800	0.657	322.7	-12.0	1.48	1.300	119.1	0.762	3.017	291.3	527.8	0.717	---	-1.24	0.268	122.3	192.8	-1.7	0.271
4-2100	4-2820	0.658	323.0	-12.0	1.44	1.299	119.2	0.760	2.976	290.9	529.2	0.715	---	-1.21	0.259	119.3	191.3	-1.6	0.263
4-2100	4-2840	0.659	323.2	-12.0	1.39	1.297	119.3	0.758	2.942	290.5	530.6	0.712	---	-1.19	0.251	116.2	189.7	-1.6	0.256
4-2100	4-2860	0.661	323.6	-12.0	1.35	1.296	119.5	0.757	2.914	290.0	531.9	0.708	---	-1.17	0.244	113.0	188.2	-1.5	0.250
4-2100	4-2880	0.664	323.9	-12.0	1.31	1.295	119.7	0.756	2.891	289.4	533.2	0.705	---	-1.15	0.238	109.9	186.7	-1.4	0.246
4-2100	4-2900	0.668	324.3	-12.0	1.27	1.294	119.9	0.756	2.873	288.8	534.4	0.700	---	-1.13	0.233	106.7	185.2	-1.3	0.242
4-2100	4-2920	0.673	324.7	-11.9	1.23	1.293	120.2	0.757	2.858	288.1	535.5	0.695	---	-1.12	0.229	103.6	183.8	-1.2	0.240
4-2100	4-2940	0.678	325.1	-11.9	1.19	1.293	120.5	0.758	2.847	287.4	536.6	0.690	---	-1.10	0.225	100.5	182.4	-1.2	0.239
4-2100	4-2960	0.683	325.6	-11.8	1.16	1.292	120.9	0.759	2.839	286.6	537.6	0.684	---	-1.09	0.222	97.5	181.2	-1.1	0.238
4-2100	4-2980	0.690	326.0	-11.7	1.12	1.292	121.3	0.761	2.833	285.8	538.6	0.678	---	-1.08	0.220	94.5	180.0	-1.0	0.238
4-2100	4-3000	0.697	326.5	-11.6	1.09	1.292	121.7	0.763	2.830	284.9	539.5	0.671	---	-1.07	0.218	91.5	179.0	-0.9	0.239
4-2100	4-3020	0.704	327.1	-11.5	1.05	1.292	122.1	0.765	2.828	284.0	540.4	0.664	4.993	-1.06	0.217	88.7	178.0	-0.9	0.240
4-2100	4-3040	0.712	327.6	-11.4	1.02	1.292	122.5	0.768	2.828	283.0	541.2	0.656	5.000	-1.05	0.216	85.9	177.3	-0.8	0.242
4-2100	4-3060	0.721	328.1	-11.3	0.98	1.292	123.0	0.771	2.830	282.0	542.0	0.648	5.012	-1.05	0.216	83.2	176.6	-0.7	0.245
4-2100	4-3080	0.730	328.7	-11.2	0.95	1.292	123.5	0.774	2.833	280.9	542.8	0.639	5.026	-1.04	0.216	80.6	176.1	-0.7	0.247
4-2100	4-3100	0.739	329.3	-11.1	0.92	1.292	124.1	0.778	2.837	279.9	543.5	0.631	5.043	-1.04	0.216	78.0	175.7	-0.6	0.251
4-2100	4-3120	0.749	329.8	-11.0	0.88	1.292	124.6	0.781	2.842	278.7	544.2	0.621	5.063	-1.03	0.217	75.6	175.4	-0.6	0.254
4-2100	4-3140	0.759	330.4	-10.8	0.85	1.293	125.2	0.785	2.848	277.6	544.8	0.612	5.085	-1.03	0.217	73.2	175.3	-0.6	0.258
4-2100	4-3160	0.770	331.0	-10.7	0.82	1.293	125.8	0.789	2.855	276.4	545.4	0.601	5.109	-1.03	0.218	70.9	175.2	-0.6	0.262
4-2100	4-3180	0.781	331.7	-10.5	0.79	1.293	126.4	0.794	2.863	275.2	545.9	0.591	5.135	-1.03	0.220	68.7	175.3	-0.5	0.266
4-2100	4-3200	0.793	332.3	-10.4	0.76	1.294	127.0	0.798	2.872	273.9	546.5	0.580	5.163	-1.03	0.221	66.6	175.5	-0.5	0.271
4-2100	4-3220	0.805	332.9	-10.2	0.72	1.294	127.7	0.802	2.881	272.6	546.9	0.569	5.193	-1.03	0.223	64.5	175.8	-0.5	0.275
4-2100	4-3240	0.817	333.6	-10.0	0.69	1.295	128.4	0.807	2.891	271.3	547.4	0.558	5.224	-1.04	0.224	62.5	176.2	-0.5	0.280
4-2100	4-3260	0.829	334.2	-9.8	0.66	1.295	129.1	0.812	2.901	270.0	547.8	0.546	5.257	-1.04	0.226	60.6	176.7	-0.5	0.285
4-2100	4-3280	0.842	334.9	-9.6	0.63	1.296	129.8	0.817	2.912	268.6	548.2	0.534	5.291	-1.04	0.228	58.7	177.2	-0.6	0.290
4-2100	4-3300	0.856	335.5	-9.5	0.60	1.296	130.5	0.822	2.924	267.2	548.5	0.521	5.326	-1.05	0.230	56.9	177.9	-0.6	0.295
4-2100	4-3320	0.869	336.2	-9.3	0.56	1.297	131.3	0.827	2.936	265.8	548.9	0.509	5.363	-1.06	0.231	55.2	178.6	-0.6	0.300
4-2100	4-3340	0.883	336.8	-9.1	0.53	1.297	132.1	0.832	2.948	264.3	549.2	0.496	5.400	-1.07	0.233	53.5	179.3	-0.6	0.305
4-2100	4-3360	0.897	337.5	-8.9	0.50	1.298	132.8	0.837	2.960	262.9	549.4	0.482	5.439	-1.07	0.235	51.8	180.2	-0.7	0.310
4-2100	4-3380	0.912	338.2	-8.6	0.46	1.298	133.6	0.842	2.973	261.4	549.7	0.469	5.478	-1.08	0.237	50.2	181.1	-0.7	0.316
4-2100	4-3400	0.926	338.9	-8.4	0.43	1.299	134.5	0.848	2.987	259.8	549.9	0.455	5.518	-1.10	0.239	48.7	182.0	-0.7	0.321
4-2100	4-3420	0.941	339.5	-8.2	0.39	1.300	135.3	0.853	3.000	258.3	550.0	0.441	5.559	-1.11	0.242	47.1	183.0	-0.8	0.326
4-2100	4-3440	0.957	340.2	-8.0	0.36	1.300	136.1	0.858	3.014	256.7	550.2	0.427	5.601	-1.12	0.244	45.7	184.1	-0.8	0.332
4-2100	4-3460	0.972	340.9	-7.8	0.32	1.301	137.0	0.864	3.028	255.1	550.3	0.413	5.644	-1.14	0.246	44.2	185.2	-0.9	0.337
4-2100	4-3480	0.988	341.6	-7.5	0.28	1.301	137.9	0.869	3.043	253.5	550.4	0.399	5.687	-1.15	0.248	42.8	186.3	-0.9	0.342
4-2100	4-3500	1.004	342.3	-7.3	0.24	1.302	138.8	0.874	3.057	251.9	550.5	0.384	5.731	-1.17	0.250	41.4	187.5	-1.0	0.348
4-2100	4-3520	1.020	343.0	-7.0	0.20	1.303	139.7	0.880	3.072	250.2	550.5	0.370	5.775	-1.19	0.252	40.0	188.8	-1.0	0.353
4-2100	4-3540	1.036	343.7	-6.8	0.16	1.303	140.6	0.885	3.087	248.5	550.6	0.355	5.820	-1.21	0.254	38.7	190.0	-1.1	0.358
4-2100	4-3560	1.053	344.4	-6.6	0.12	1.304	141.6	0.890	3.103	246.9	550.6	0.340	5.865	-1.24	0.256	37.4	191.3	-1.1	0.364
4-2100	4-3580	1.070	345.1	-6.3	0.07	1.304	142.5	0.896	3.118	245.2	550.5	0.325	5.911	-1.26	0.258	36.1	192.6	-1.2	0.369
4-2100	4-3600	1.087	345.8	-6.1	0.02	1.305	143.5	0.901	3.134	243.4	550.5	0.311	5.956	-1.29	0.260	34.8	194.0	-1.3	0.375
4-2100	4-3620	1.104	346.5	-5.8	-0.02	1.306	144.4	0.906	3.149	241.7	550.4	0.296	6.003	-1.32	0.262	33.6	195.4	-1.3	0.380
4-2100	4-3640	1.121	347.2	-5.5	-0.07	1.306	145.4	0.911	3.165	239.9	550.3	0.281	6.049	-1.35	0.264	32.4	196.8	-1.4	0.385
4-2100	4-3660	1.139	347.9	-5.3	-0.13	1.307	146.4	0.916	3.181	238.1	550.2	0.267	6.096	-1.39	0.266	31.1	198.2	-1.4	0.391
4-2100	4-3680	1.156	348.6	-5.0	-0.18	1.307	147.4	0.921	3.197	236.4	550.1	0.252	6.143	-1.43	0.268	30.0	199.6	-1.5	0.396
4-2100	4-3700	1.174	349.3	-4.8	-0.24	1.308	148.5	0.926	3.214	234.6	550.0	0.238	6.190	-1.47	0.270	28.8	201.1	-1.6	0.401
4-2110	4-2510	0.787	328.1	-6.7	3.80	1.416	121.8	0.99072	2.772	296.1	496.0	0.716	---	-3.39	0.624	157.3	204.8	-2.6	0.621
4-2110	4-2530	0.757	327.8	-7.1	3.51	1.397	120.7	0.95315	3.343	296.8	498.5	0.726	---	-3.12	0.582	155.6	205.0	-2.6	0.577
4-2110	4-2550	0.730	327.5	-7.4	3.26	1.382	119.8	0.920	9.223	297.4	501.0	0.735	---	-2.89	0.543	153.8	205.0	-2.6	0.538
4-2110	4-2570	0.707	327.3	-7.7	3.04	1.368	119.0	0.892	6.899	298.0	503.4	0.743	---	-2.69	0.509	151.9	205.0	-2.6	0.503
4-2110	4-2590	0.687	327.1	-8.0	2.86	1.357	118.4	0.868	5.684	298.5	505.7	0.750	---	-2.52	0.477	149.9	204.8	-2.6	0.470
4-2110	4-2610	0.670	326.9	-8.2	2.69	1.347	117.7	0.847	4.943	298.9	507.9	0.757	---	-2.38	0.449	147.9	204.5	-2.6	0.441
4-2110	4-2630	0.655	326.8	-8.5	2.54	1.339	117.2	0.829	4.448	299.3	510.1	0.762	---	-2.25	0.423	145.7	204.2	-2.6	0.415
4-2110	4-2650	0.642	326.7	-8.7	2.41	1.332	116.8	0.813	4.097	299.5	512.2	0.766	---	-2.14	0.400	143.5	203.7	-2.5	0.390
4-2110	4-2670	0.632	326.6	-8.9	2.29	1.325	116.4	0.799	3.838	299.8	514.3	0.770	---	-2.04	0.379	141.1	203.0	-2.5	0.369
4-2110	4-2690	0.623	326.6	-9.0	2.18	1.320	116.1	0.788	3.640	299.9	516.3	0.772	---	-1.95	0.359	138.7	202.3	-2.5	0.349
4-2110	4-2710	0.616	326.6	-9.2	2.08	1.315	115.9	0.778	3.486	300.0	518.2	0.774	---	-1.87	0.342	136.2	201.4	-2.5	0.331
4-2110	4-2730	0.610	326.7	-9.3	1.98	1.312	115.7	0.769	3.363	300.0	520.0	0.776	---	-1.79	0.326	133.5	200.4	-2.4	0.315
4-2110	4-2750	0.605	326.8	-9.4	1.90	1.308	115.6	0.762	3.265	299.9	521.7	0.776	---	-1.73	0.312	130.9	199.4	-2.4	0.301
4-2110	4-2770	0.602	326.9	-9.5	1.82	1.305	115.5	0.756	3.185	299.8	523.4	0.776	---	-1.67	0.299	128.1	198.1	-2.3	0.288
4-2110	4-2790	0.600	327.1	-9.6	1.74	1.303	115.5	0.751	3.120	299.5	525.1	0.776	---	-1.62	0.288	125.3	196.9	-2.3	0.276
4-2110	4-2810	0.599	327.3	-9.7	1.67	1.301	115.5	0.747	3.067	299.3	526.6	0.775	---	-1.57	0.278	122.4	195.5	-2.2	0.267
4-2110	4-2830	0.599	327.6	-9.7	1.61	1.299	115.6	0.744	3.023	298.9	528.1	0.773	---	-1.53	0.269	119.5	194.0	-2.1	0.258
4-2110	4-2850	0.600	327.9	-9.8	1.55	1.297	115.7	0.742	2.986	298.5	529.5	0.771	---	-1.49	0.261	116.5	192.5	-2.1	0.251
4-2110	4-2870	0.601	328.2	-9.8	1.49	1.296	115.8	0.740	2.957	298.1	530.9	0.768	---	-1.45	0.254	113.5	191.0	-2.0	0.245

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2110	4-2890	0.603	328.6	-9.8	1.43	1.295	116.0	0.739	2.932	297.6	532.2	0.765	---	-1.42	0.248	110.6	189.5	-1.9	0.240
4-2110	4-2910	0.607	329.0	-9.8	1.38	1.294	116.2	0.739	2.913	297.0	533.4	0.761	---	-1.38	0.243	107.6	188.0	-1.8	0.236
4-2110	4-2930	0.610	329.4	-9.8	1.32	1.293	116.5	0.739	2.897	296.4	534.6	0.757	---	-1.36	0.238	104.7	186.5	-1.7	0.233
4-2110	4-2950	0.615	329.8	-9.7	1.27	1.293	116.8	0.739	2.885	295.7	535.8	0.753	---	-1.33	0.235	101.8	185.2	-1.6	0.231
4-2110	4-2970	0.620	330.3	-9.7	1.23	1.292	117.1	0.740	2.876	295.0	536.8	0.748	---	-1.31	0.232	98.9	183.8	-1.5	0.230
4-2110	4-2990	0.625	330.8	-9.6	1.18	1.292	117.4	0.741	2.869	294.2	537.9	0.742	---	-1.29	0.229	96.1	182.6	-1.4	0.229
4-2110	4-3010	0.631	331.3	-9.6	1.14	1.292	117.8	0.743	2.865	293.4	538.9	0.736	---	-1.27	0.227	93.3	181.5	-1.3	0.230
4-2110	4-3030	0.638	331.8	-9.5	1.09	1.292	118.2	0.745	2.862	292.5	539.8	0.730	---	-1.25	0.226	90.6	180.5	-1.3	0.231
4-2110	4-3050	0.645	332.4	-9.4	1.05	1.291	118.6	0.747	2.862	291.6	540.7	0.723	5.000	-1.24	0.225	88.0	179.6	-1.2	0.232
4-2110	4-3070	0.653	332.9	-9.3	1.01	1.292	119.0	0.750	2.862	290.6	541.5	0.716	5.009	-1.22	0.224	85.4	178.9	-1.1	0.234
4-2110	4-3090	0.661	333.5	-9.2	0.97	1.292	119.5	0.753	2.865	289.7	542.3	0.709	5.021	-1.21	0.224	82.9	178.3	-1.0	0.236
4-2110	4-3110	0.669	334.1	-9.1	0.93	1.292	120.0	0.756	2.868	288.6	543.1	0.701	5.036	-1.20	0.224	80.5	177.8	-1.0	0.239
4-2110	4-3130	0.678	334.7	-8.9	0.89	1.292	120.5	0.759	2.873	287.6	543.8	0.693	5.053	-1.19	0.225	78.2	177.4	-0.9	0.242
4-2110	4-3150	0.688	335.3	-8.8	0.85	1.292	121.0	0.762	2.879	286.5	544.5	0.684	5.073	-1.18	0.225	76.0	177.2	-0.9	0.245
4-2110	4-3170	0.697	335.9	-8.6	0.82	1.293	121.6	0.766	2.885	285.3	545.2	0.675	5.095	-1.17	0.226	73.8	177.1	-0.9	0.249
4-2110	4-3190	0.708	336.6	-8.5	0.78	1.293	122.1	0.770	2.892	284.2	545.8	0.666	5.119	-1.17	0.227	71.7	177.1	-0.8	0.253
4-2110	4-3210	0.718	337.2	-8.3	0.74	1.293	122.7	0.774	2.901	283.0	546.3	0.656	5.145	-1.16	0.228	69.7	177.2	-0.8	0.257
4-2110	4-3230	0.729	337.9	-8.2	0.71	1.294	123.3	0.778	2.909	281.7	546.9	0.646	5.173	-1.16	0.230	67.7	177.4	-0.8	0.261
4-2110	4-3250	0.740	338.5	-8.0	0.67	1.294	124.0	0.782	2.919	280.5	547.4	0.635	5.202	-1.16	0.231	65.8	177.7	-0.8	0.265
4-2110	4-3270	0.752	339.2	-7.8	0.64	1.295	124.6	0.787	2.929	279.2	547.9	0.625	5.233	-1.15	0.232	64.0	178.0	-0.8	0.270
4-2110	4-3290	0.764	339.8	-7.6	0.60	1.295	125.3	0.791	2.939	277.9	548.3	0.614	5.265	-1.15	0.234	62.2	178.5	-0.8	0.274
4-2110	4-3310	0.776	340.5	-7.4	0.57	1.296	125.9	0.796	2.950	276.6	548.7	0.602	5.298	-1.15	0.236	60.5	179.1	-0.8	0.279
4-2110	4-3330	0.788	341.2	-7.2	0.53	1.296	126.6	0.801	2.962	275.2	549.1	0.590	5.333	-1.16	0.237	58.9	179.7	-0.8	0.284
4-2110	4-3350	0.801	341.8	-7.0	0.50	1.297	127.3	0.805	2.974	273.8	549.4	0.578	5.369	-1.16	0.239	57.2	180.4	-0.8	0.288
4-2110	4-3370	0.814	342.5	-6.8	0.46	1.297	128.1	0.810	2.986	272.4	549.8	0.566	5.405	-1.16	0.241	55.7	181.2	-0.9	0.293
4-2110	4-3390	0.828	343.2	-6.6	0.43	1.298	128.8	0.815	2.998	271.0	550.1	0.554	5.443	-1.17	0.243	54.1	182.0	-0.9	0.298
4-2110	4-3410	0.842	343.9	-6.4	0.39	1.298	129.6	0.820	3.011	269.5	550.3	0.541	5.482	-1.17	0.245	52.6	182.9	-0.9	0.303
4-2110	4-3430	0.855	344.6	-6.1	0.35	1.299	130.3	0.826	3.024	268.0	550.6	0.528	5.521	-1.18	0.246	51.2	183.8	-0.9	0.308
4-2110	4-3450	0.870	345.3	-5.9	0.32	1.299	131.1	0.831	3.038	266.5	550.8	0.514	5.561	-1.19	0.248	49.8	184.8	-1.0	0.313
4-2110	4-3470	0.884	346.0	-5.7	0.28	1.300	131.9	0.836	3.051	265.0	551.0	0.501	5.602	-1.20	0.250	48.4	185.8	-1.0	0.318
4-2110	4-3490	0.899	346.7	-5.4	0.24	1.300	132.8	0.841	3.065	263.4	551.1	0.487	5.644	-1.21	0.252	47.0	186.9	-1.1	0.323
4-2110	4-3510	0.914	347.3	-5.2	0.20	1.301	133.6	0.846	3.080	261.9	551.3	0.473	5.686	-1.22	0.254	45.7	188.0	-1.1	0.328
4-2110	4-3530	0.929	348.0	-5.0	0.16	1.302	134.4	0.852	3.094	260.3	551.4	0.459	5.729	-1.24	0.256	44.4	189.2	-1.2	0.333
4-2110	4-3550	0.944	348.7	-4.7	0.13	1.302	135.3	0.857	3.109	258.7	551.5	0.444	5.773	-1.25	0.258	43.1	190.4	-1.2	0.338
4-2110	4-3570	0.960	349.4	-4.5	0.08	1.303	136.2	0.862	3.123	257.1	551.6	0.430	5.817	-1.27	0.260	41.9	191.6	-1.3	0.343
4-2110	4-3590	0.976	350.1	-4.2	0.04	1.303	137.1	0.868	3.138	255.4	551.6	0.415	5.862	-1.29	0.262	40.7	192.8	-1.3	0.348
4-2110	4-3610	0.992	350.8	-4.0	0.00	1.304	137.9	0.873	3.153	253.8	551.6	0.400	5.907	-1.31	0.263	39.4	194.1	-1.4	0.354
4-2110	4-3630	1.008	351.5	-3.7	-0.04	1.305	138.9	0.878	3.169	252.1	551.6	0.385	5.952	-1.33	0.265	38.2	195.5	-1.4	0.359
4-2110	4-3650	1.025	352.2	-3.4	-0.09	1.305	139.8	0.884	3.184	250.4	551.6	0.371	5.998	-1.35	0.267	37.1	196.8	-1.5	0.364
4-2110	4-3670	1.041	352.9	-3.2	-0.14	1.306	140.7	0.889	3.200	248.7	551.6	0.356	6.044	-1.37	0.269	35.9	198.2	-1.5	0.369
4-2110	4-3690	1.058	353.6	-2.9	-0.18	1.306	141.7	0.894	3.215	247.0	551.5	0.341	6.090	-1.40	0.271	34.7	199.6	-1.6	0.374
4-2110	4-3710	1.075	354.3	-2.6	-0.23	1.307	142.6	0.899	3.231	245.3	551.5	0.326	6.137	-1.43	0.273	33.6	201.0	-1.7	0.379
4-2120	4-2520	0.740	331.3	0.7	6.91	1.415	118.3	0.99315.834		303.2	494.0	0.770	---	-6.62	0.629	156.6	206.4	-4.0	0.619
4-2120	4-2540	0.707	331.1	-0.6	5.94	1.397	117.3	0.95316.666		303.9	496.6	0.780	---	-5.68	0.586	154.9	206.6	-3.8	0.575
4-2120	4-2560	0.679	331.0	-1.7	5.22	1.382	116.4	0.919	9.688	304.6	499.1	0.789	---	-4.97	0.548	153.1	206.7	-3.7	0.536
4-2120	4-2580	0.655	330.8	-2.6	4.65	1.368	115.6	0.889	7.156	305.3	501.6	0.796	---	-4.43	0.514	151.2	206.7	-3.6	0.500
4-2120	4-2600	0.634	330.7	-3.3	4.20	1.357	114.9	0.863	5.857	305.8	504.0	0.803	---	-3.99	0.483	149.2	206.6	-3.5	0.468
4-2120	4-2620	0.617	330.5	-3.9	3.82	1.347	114.3	0.841	5.073	306.3	506.3	0.809	---	-3.64	0.455	147.2	206.4	-3.4	0.439
4-2120	4-2640	0.602	330.4	-4.5	3.51	1.339	113.8	0.821	4.552	306.8	508.6	0.814	---	-3.35	0.429	145.0	206.0	-3.3	0.412
4-2120	4-2660	0.589	330.3	-4.9	3.24	1.332	113.4	0.804	4.185	307.1	510.7	0.818	---	-3.10	0.406	142.8	205.6	-3.3	0.388
4-2120	4-2680	0.578	330.3	-5.3	3.01	1.325	113.0	0.790	3.914	307.4	512.8	0.822	---	-2.89	0.385	140.5	205.0	-3.2	0.366
4-2120	4-2700	0.569	330.3	-5.7	2.81	1.320	112.7	0.778	3.708	307.6	514.9	0.824	---	-2.71	0.366	138.1	204.3	-3.2	0.346
4-2120	4-2720	0.561	330.3	-6.0	2.63	1.315	112.4	0.767	3.547	307.7	516.8	0.827	---	-2.55	0.349	135.7	203.5	-3.1	0.328
4-2120	4-2740	0.555	330.4	-6.3	2.47	1.311	112.3	0.758	3.420	307.8	518.7	0.828	---	-2.42	0.334	133.1	202.6	-3.1	0.312
4-2120	4-2760	0.550	330.5	-6.6	2.33	1.308	112.1	0.750	3.317	307.8	520.5	0.829	---	-2.30	0.320	130.5	201.6	-3.0	0.298
4-2120	4-2780	0.546	330.7	-6.8	2.20	1.305	112.0	0.744	3.234	307.7	522.3	0.829	---	-2.19	0.307	127.8	200.4	-2.9	0.285
4-2120	4-2800	0.544	330.9	-7.0	2.08	1.302	112.0	0.738	3.166	307.5	523.9	0.829	---	-2.09	0.296	125.1	199.2	-2.9	0.273
4-2120	4-2820	0.542	331.1	-7.1	1.98	1.300	112.0	0.734	3.111	307.3	525.5	0.828	---	-2.01	0.286	122.3	197.9	-2.8	0.263
4-2120	4-2840	0.542	331.4	-7.3	1.88	1.298	112.1	0.730	3.065	307.0	527.1	0.827	---	-1.93	0.277	119.5	196.5	-2.7	0.254
4-2120	4-2860	0.542	331.7	-7.4	1.79	1.297	112.1	0.727	3.027	306.7	528.6	0.825	---	-1.86	0.269	116.7	195.0	-2.6	0.246
4-2120	4-2880	0.543	332.1	-7.5	1.70	1.295	112.3	0.725	2.996	306.2	530.0	0.823	---	-1.80	0.262	113.9	193.5	-2.5	0.240
4-2120	4-2900	0.545	332.4	-7.5	1.62	1.294	112.4	0.724	2.970	305.8	531.3	0.821	---	-1.74	0.256	111.0	192.0	-2.4	0.235
4-2120	4-2920	0.547	332.9	-7.6	1.55	1.293	112.6	0.723	2.950	305.2	532.6	0.818	---	-1.69	0.251	108.2	190.5	-2.3	0.230
4-2120	4-2940	0.550	333.3	-7.6	1.47	1.293	112.8	0.722	2.933	304.7	533.8	0.814	---	-1.64	0.247	105.4	189.0	-2.2	0.227
4-2120	4-2960	0.554	333.8	-7.6	1.41	1.292	113.1	0.722	2.920	304.0	535.0	0.810	---	-1.60	0.243	102.6	187.6	-2.1	0.225
4-2120	4-2980	0.559	334.3	-7.6	1.34	1.292	113.4	0.723	2.910	303.3	536.1	0.806	---	-1.56	0.240	99.9	186.3	-2.0	0.223
4-2120	4-3000	0.563	334.8	-7.6	1.28	1.291	113.7	0.724	2.903	302.6	537.2	0.802	---	-1.52	0.238	97.2	185.0	-1.9	0.222
4-2120	4-3020	0.569	335.4	-7.5	1.23	1.291	114.0	0.725	2.898	301.8	538.2	0.797	---	-1.49	0.236	94.6	183.9	-1.8	0.222
4-2120	4-3040	0.575	335.9	-7.5	1.17	1.291	114.4	0.727	2.894	301.0	539.2	0.791	---	-1.46	0.234	92.1	182.8	-1.7	0.222
4-2120	4-3060	0.581	336.5	-7.4	1.12	1.291	114.8	0.728	2.893	300.2	540.2	0.786	5.001	-1.43	0.233	89.6	181.9	-1.6	0.223
4-2120	4-3080	0.588	337.1	-7.3	1.07	1.291	115.2	0.731	2.894	299.2	541.0	0.779	5.008	-1.41	0.232	87.2	181.1	-1.5	0.225
4-2120	4-3100	0.595	337.7	-7.2	1.02	1.291	115.6	0.733	2.895	298.3	541.9	0.773	5.018	-1.39	0.232	84.8	180.4	-1.4	0.227
4-2120	4-3120	0.603	338.4	-7.1	0.97	1.291	116.0	0.736	2.898	297.3	542.7	0.766	5.031	-1.37	0.232	82.6	179.8	-1.4	0.229
4-2120	4-3140	0.611	339.0	-6.9	0.92	1.291	116.5	0.739	2.903	296.3	543.5	0.759	5.046	-1.35	0.232	80.4	179.4	-1.3	0.232
4-2120	4-3160	0.620	339.7	-6.8	0.88	1.292	117.0	0.742	2.908	295.3	544.2	0.751	5.064	-1.33	0.232	78.2	179.0	-1.2	0.234
4-2120	4-3180	0.628	340.3	-6.7	0.84	1.292	117.5	0.745	2.914	294.2	544.9	0.743	5.085	-1.32	0.233	76.2	178.8	-1.2	0.238
4-2120	4-3200	0.638	341.0	-6.5	0.79	1.292	118.0	0.748	2.921	293.1	545.5	0.735	5.107	-1.30	0.234	74.2	178.8	-1.2	0.241
4-2120	4-3220	0.647	341.7	-6.3	0.75	1.293	118.6	0.752	2.929	291.9	546.2	0.727	5.131	-1.29	0.235	72.3	178.8	-1.1	0.245
4-2120	4-3240	0.657	342.4	-6.2	0.71	1.293	119.1	0.756	2.937	290.7	546.8	0.718	5.157	-1.28	0.236	70.4	178.9	-1.1	0.249
4-2120	4-3260	0.667	343.0	-6.0	0.67	1.293	119.7	0.760	2.946	289.5	547.3	0.708	5.184	-1.27	0.237	68.6	179.1	-1.1	0.252

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2120	4-3280	0.678	343.7	-5.8	0.63	1.294	120.3	0.764	2.956	288.3	547.8	0.699	5.213	-1.26	0.239	66.9	179.4	-1.1	0.257
4-2120	4-3300	0.689	344.4	-5.6	0.59	1.294	120.9	0.768	2.966	287.0	548.3	0.689	5.243	-1.26	0.240	65.2	179.8	-1.0	0.261
4-2120	4-3320	0.700	345.1	-5.4	0.55	1.295	121.6	0.772	2.977	285.8	548.8	0.679	5.275	-1.25	0.241	63.6	180.3	-1.0	0.265
4-2120	4-3340	0.712	345.8	-5.2	0.51	1.295	122.2	0.776	2.988	284.4	549.2	0.668	5.308	-1.25	0.243	62.0	180.9	-1.0	0.269
4-2120	4-3360	0.724	346.5	-5.0	0.48	1.296	122.9	0.781	2.999	283.1	549.6	0.657	5.342	-1.24	0.245	60.4	181.5	-1.0	0.274
4-2120	4-3380	0.736	347.2	-4.8	0.44	1.296	123.5	0.786	3.011	281.8	550.0	0.646	5.377	-1.24	0.246	58.9	182.2	-1.1	0.278
4-2120	4-3400	0.748	347.9	-4.6	0.40	1.297	124.2	0.790	3.023	280.4	550.4	0.634	5.412	-1.24	0.248	57.5	183.0	-1.1	0.283
4-2120	4-3420	0.761	348.6	-4.3	0.36	1.297	124.9	0.795	3.036	279.0	550.7	0.622	5.449	-1.24	0.249	56.1	183.8	-1.1	0.287
4-2120	4-3440	0.774	349.3	-4.1	0.33	1.298	125.7	0.800	3.049	277.5	551.0	0.610	5.487	-1.24	0.251	54.7	184.6	-1.1	0.292
4-2120	4-3460	0.787	350.0	-3.9	0.29	1.298	126.4	0.805	3.062	276.1	551.2	0.598	5.526	-1.25	0.253	53.3	185.6	-1.2	0.297
4-2120	4-3480	0.800	350.8	-3.6	0.25	1.299	127.1	0.810	3.075	274.6	551.5	0.585	5.565	-1.25	0.255	52.0	186.5	-1.2	0.301
4-2120	4-3500	0.814	351.5	-3.4	0.21	1.299	127.9	0.815	3.089	273.2	551.7	0.572	5.605	-1.26	0.256	50.7	187.6	-1.2	0.306
4-2120	4-3520	0.828	352.2	-3.1	0.18	1.300	128.7	0.820	3.103	271.7	551.9	0.559	5.646	-1.26	0.258	49.5	188.6	-1.3	0.311
4-2120	4-3540	0.842	352.9	-2.9	0.14	1.300	129.5	0.825	3.117	270.1	552.1	0.546	5.687	-1.27	0.260	48.2	189.7	-1.3	0.316
4-2120	4-3560	0.857	353.6	-2.6	0.10	1.301	130.3	0.830	3.131	268.6	552.2	0.532	5.729	-1.28	0.262	47.0	190.8	-1.3	0.320
4-2120	4-3580	0.871	354.3	-2.4	0.06	1.302	131.1	0.835	3.145	267.0	552.4	0.518	5.772	-1.29	0.263	45.8	192.0	-1.4	0.325
4-2120	4-3600	0.886	355.0	-2.1	0.02	1.302	131.9	0.840	3.160	265.5	552.5	0.504	5.815	-1.30	0.265	44.6	193.2	-1.4	0.330
4-2120	4-3620	0.901	355.7	-1.9	-0.02	1.303	132.7	0.846	3.175	263.9	552.6	0.490	5.859	-1.31	0.267	43.5	194.5	-1.5	0.335
4-2120	4-3640	0.916	356.4	-1.6	-0.06	1.303	133.6	0.851	3.189	262.3	552.6	0.476	5.903	-1.33	0.269	42.3	195.7	-1.5	0.339
4-2120	4-3660	0.932	357.1	-1.4	-0.10	1.304	134.5	0.856	3.204	260.7	552.7	0.461	5.948	-1.34	0.270	41.2	197.0	-1.6	0.344
4-2120	4-3680	0.948	357.8	-1.1	-0.14	1.304	135.3	0.861	3.220	259.0	552.7	0.446	5.993	-1.36	0.272	40.1	198.3	-1.6	0.349
4-2120	4-3700	0.963	358.5	-0.8	-0.19	1.305	136.2	0.867	3.235	257.4	552.7	0.432	6.038	-1.37	0.274	39.0	199.7	-1.7	0.354
4-2120	4-3720	0.979	359.2	-0.6	-0.23	1.306	137.1	0.872	3.250	255.7	552.7	0.417	6.084	-1.39	0.275	37.9	201.0	-1.8	0.358
4-2130	4-2550	0.753	330.3	26.2	20.09	1.396	113.8	0.95317.494		311.1	494.9	0.830	---	-19.95	0.589	154.1	206.6	-10.0	0.582
4-2130	4-2570	0.671	330.8	16.5	13.61	1.381	112.9	0.916	9.987	312.0	497.5	0.839	---	-13.49	0.551	152.3	207.5	-7.8	0.537
4-2130	4-2590	0.627	331.4	10.9	10.27	1.368	112.1	0.885	7.328	312.7	500.0	0.846	---	-10.17	0.517	150.5	207.8	-6.6	0.500
4-2130	4-2610	0.596	331.7	7.3	8.23	1.356	111.4	0.857	5.977	313.3	502.5	0.853	---	-8.15	0.486	148.5	207.9	-5.9	0.467
4-2130	4-2630	0.573	331.9	4.7	6.87	1.346	110.8	0.834	5.166	313.9	504.9	0.858	---	-6.81	0.459	146.5	207.8	-5.4	0.437
4-2130	4-2650	0.555	332.1	2.9	5.88	1.338	110.3	0.814	4.629	314.4	507.2	0.863	---	-5.85	0.434	144.4	207.6	-5.0	0.410
4-2130	4-2670	0.540	332.2	1.4	5.14	1.331	109.9	0.796	4.251	314.8	509.5	0.867	---	-5.13	0.411	142.2	207.2	-4.8	0.386
4-2130	4-2690	0.528	332.3	0.2	4.57	1.325	109.5	0.781	3.972	315.2	511.6	0.870	---	-4.57	0.390	139.9	206.7	-4.5	0.364
4-2130	4-2710	0.518	332.4	-0.8	4.10	1.319	109.2	0.768	3.761	315.4	513.7	0.872	---	-4.13	0.371	137.5	206.1	-4.4	0.344
4-2130	4-2730	0.510	332.6	-1.6	3.72	1.315	109.0	0.757	3.596	315.6	515.7	0.874	---	-3.77	0.355	135.1	205.3	-4.2	0.326
4-2130	4-2750	0.503	332.7	-2.3	3.39	1.311	108.8	0.747	3.465	315.7	517.7	0.876	---	-3.46	0.339	132.6	204.5	-4.1	0.309
4-2130	4-2770	0.498	332.9	-2.8	3.12	1.307	108.6	0.739	3.360	315.8	519.5	0.877	---	-3.21	0.326	130.1	203.5	-3.9	0.295
4-2130	4-2790	0.494	333.1	-3.3	2.88	1.304	108.5	0.732	3.275	315.7	521.3	0.877	---	-3.00	0.313	127.5	202.4	-3.8	0.281
4-2130	4-2810	0.491	333.4	-3.8	2.68	1.302	108.5	0.726	3.206	315.6	523.0	0.877	---	-2.81	0.302	124.8	201.2	-3.7	0.270
4-2130	4-2830	0.489	333.7	-4.1	2.49	1.300	108.5	0.722	3.148	315.4	524.7	0.877	---	-2.65	0.292	122.1	199.9	-3.6	0.259
4-2130	4-2850	0.488	334.0	-4.4	2.33	1.298	108.5	0.718	3.101	315.2	526.2	0.876	---	-2.51	0.284	119.4	198.5	-3.5	0.250
4-2130	4-2870	0.487	334.4	-4.7	2.18	1.296	108.6	0.714	3.062	314.9	527.7	0.874	---	-2.38	0.276	116.7	197.1	-3.3	0.242
4-2130	4-2890	0.488	334.8	-4.9	2.05	1.295	108.7	0.712	3.030	314.5	529.2	0.873	---	-2.27	0.269	114.0	195.7	-3.2	0.236
4-2130	4-2910	0.489	335.3	-5.1	1.93	1.294	108.9	0.710	3.004	314.1	530.6	0.871	---	-2.17	0.263	111.2	194.2	-3.1	0.230
4-2130	4-2930	0.491	335.8	-5.2	1.82	1.293	109.0	0.709	2.982	313.6	531.9	0.868	---	-2.09	0.258	108.5	192.7	-2.9	0.225
4-2130	4-2950	0.494	336.3	-5.3	1.71	1.292	109.2	0.708	2.965	313.0	533.2	0.866	---	-2.01	0.254	105.9	191.2	-2.8	0.222
4-2130	4-2970	0.497	336.8	-5.4	1.62	1.291	109.5	0.708	2.952	312.4	534.4	0.862	---	-1.93	0.250	103.2	189.8	-2.7	0.219
4-2130	4-2990	0.500	337.4	-5.5	1.53	1.291	109.7	0.708	2.941	311.8	535.5	0.859	---	-1.87	0.247	100.6	188.4	-2.5	0.217
4-2130	4-3010	0.505	338.0	-5.5	1.45	1.291	110.0	0.708	2.933	311.1	536.6	0.855	---	-1.81	0.245	98.1	187.2	-2.4	0.216
4-2130	4-3030	0.509	338.6	-5.5	1.37	1.290	110.3	0.709	2.928	310.3	537.7	0.851	---	-1.76	0.243	95.6	186.0	-2.3	0.215
4-2130	4-3050	0.515	339.2	-5.5	1.30	1.290	110.7	0.711	2.924	309.6	538.7	0.846	---	-1.71	0.241	93.2	184.9	-2.2	0.215
4-2130	4-3070	0.520	339.9	-5.4	1.23	1.290	111.0	0.712	2.922	308.7	539.7	0.842	---	-1.66	0.240	90.8	183.9	-2.1	0.216
4-2130	4-3090	0.526	340.6	-5.3	1.16	1.290	111.4	0.714	2.923	307.9	540.6	0.836	5.009	-1.62	0.239	88.5	183.0	-2.0	0.217
4-2130	4-3110	0.533	341.2	-5.3	1.10	1.290	111.8	0.716	2.924	306.9	541.5	0.831	5.017	-1.59	0.239	86.3	182.3	-1.9	0.219
4-2130	4-3130	0.540	341.9	-5.2	1.04	1.290	112.2	0.718	2.927	306.0	542.3	0.825	6.028	-1.55	0.239	84.1	181.7	-1.8	0.220
4-2130	4-3150	0.547	342.6	-5.1	0.98	1.290	112.7	0.721	2.931	305.0	543.1	0.819	5.042	-1.52	0.239	82.0	181.2	-1.7	0.223
4-2130	4-3170	0.555	343.4	-4.9	0.93	1.291	113.1	0.723	2.936	304.0	543.9	0.812	5.059	-1.49	0.239	80.0	180.8	-1.6	0.225
4-2130	4-3190	0.563	344.1	-4.8	0.88	1.291	113.6	0.726	2.941	303.0	544.6	0.806	5.077	-1.47	0.239	78.1	180.5	-1.5	0.228
4-2130	4-3210	0.571	344.8	-4.6	0.83	1.291	114.1	0.729	2.948	301.9	545.3	0.798	5.098	-1.45	0.240	76.2	180.4	-1.5	0.231
4-2130	4-3230	0.580	345.5	-4.5	0.78	1.292	114.6	0.732	2.956	300.8	546.0	0.791	5.120	-1.42	0.241	74.3	180.3	-1.4	0.235
4-2130	4-3250	0.589	346.3	-4.3	0.73	1.292	115.1	0.736	2.964	299.6	546.6	0.783	5.145	-1.41	0.242	72.6	180.4	-1.4	0.238
4-2130	4-3270	0.599	347.0	-4.1	0.68	1.292	115.7	0.739	2.973	298.5	547.2	0.775	5.170	-1.39	0.243	70.9	180.6	-1.4	0.242
4-2130	4-3290	0.608	347.8	-3.9	0.64	1.293	116.2	0.743	2.982	297.3	547.8	0.767	5.197	-1.37	0.244	69.2	180.8	-1.3	0.245
4-2130	4-3310	0.618	348.5	-3.7	0.59	1.293	116.8	0.747	2.992	296.1	548.3	0.758	5.226	-1.36	0.245	67.6	181.1	-1.3	0.249
4-2130	4-3330	0.629	349.3	-3.5	0.55	1.294	117.4	0.751	3.002	294.8	548.8	0.749	5.256	-1.35	0.247	66.1	181.6	-1.3	0.253
4-2130	4-3350	0.639	350.0	-3.3	0.51	1.294	118.0	0.755	3.013	293.6	549.3	0.740	5.287	-1.33	0.248	64.5	182.1	-1.3	0.257
4-2130	4-3370	0.650	350.8	-3.1	0.47	1.295	118.6	0.759	3.025	292.3	549.7	0.730	5.319	-1.32	0.250	63.1	182.6	-1.3	0.261
4-2130	4-3390	0.661	351.5	-2.9	0.43	1.295	119.2	0.763	3.036	291.0	550.1	0.720	5.352	-1.32	0.251	61.7	183.3	-1.3	0.265
4-2130	4-3410	0.673	352.2	-2.6	0.39	1.296	119.9	0.767	3.048	289.6	550.5	0.709	5.387	-1.31	0.253	60.3	184.0	-1.3	0.270
4-2130	4-3430	0.684	353.0	-2.4	0.35	1.296	120.5	0.772	3.060	288.3	550.9	0.699	5.422	-1.30	0.254	58.9	184.7	-1.3	0.274
4-2130	4-3450	0.696	353.7	-2.2	0.31	1.297	121.2	0.776	3.073	286.9	551.3	0.688	5.458	-1.30	0.256	57.6	185.6	-1.3	0.278
4-2130	4-3470	0.709	354.5	-1.9	0.27	1.297	121.9	0.781	3.086	285.5	551.6	0.677	5.495	-1.30	0.257	56.3	186.4	-1.3	0.282
4-2130	4-3490	0.721	355.2	-1.7	0.23	1.298	122.6	0.785	3.099	284.1	551.9	0.665	5.533	-1.29	0.259	55.1	187.3	-1.4	0.287
4-2130	4-3510	0.734	356.0	-1.4	0.19	1.298	123.3	0.790	3.112	282.7	552.1	0.653	5.571	-1.29	0.261	53.9	188.3	-1.4	0.291
4-2130	4-3530	0.747	356.7	-1.2	0.15	1.299	124.0	0.795	3.126	281.2	552.4	0.641	5.610	-1.29	0.262	52.7	189.3	-1.4	0.295
4-2130	4-3550	0.760	357.4	-0.9	0.12	1.299	124.8	0.800	3.140	279.8	552.6	0.629	5.650	-1.29	0.264	51.5	190.4	-1.4	0.300
4-2130	4-3570	0.773	358.2	-0.7	0.08	1.300	125.5	0.805	3.154	278.3	552.8	0.616	5.691	-1.30	0.265	50.3	191.4	-1.5	0.304
4-2130	4-3590	0.787	358.9	-0.4	0.04	1.300	126.3	0.809	3.168	276.8	553.0	0.604	5.732	-1.30	0.267	49.2	192.6	-1.5	0.309
4-2130	4-3610	0.801	359.6	-0.2	0.00	1.301	127.0	0.814	3.182	275.3	553.2	0.591	5.773	-1.31	0.269	48.1	193.7	-1.6	0.313
4-2130	4-3630	0.815	0.4	0.1	-0.04	1.301	127.8	0.819	3.196	273.7	553.3	0.577	5.815	-1.31	0.270	47.0	194.9	-1.6	0.318
4-2130	4-3650	0.829	1.1	0.4	-0.08	1.302	128.6	0.824	3.211	272.2	553.5	0.564	5.858	-1.32	0.272	45.9	196.1	-1.7	0.322
4-2130	4-3670	0.843	1.8	0.6	-0.12	1.302	129.4	0.830	3.226	270.6	553.6	0.550	5.901	-1.33	0.274	44.9	197.4	-1.7	0.326

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2130	4-3690	0.858	2.5	0.9	-0.16	1.303	130.2	0.835	3.240	269.1	553.6	0.536	5.945	-1.34	0.275	43.8	198.6	-1.8	0.331
4-2130	4-3710	0.873	3.3	1.2	-0.20	1.304	131.1	0.840	3.255	267.5	553.7	0.522	5.989	-1.35	0.277	42.8	199.9	-1.8	0.335
4-2130	4-3730	0.888	4.0	1.4	-0.24	1.304	131.9	0.845	3.271	265.9	553.8	0.507	6.034	-1.36	0.278	41.8	201.2	-1.9	0.340
4-2140	4-2540	0.644	352.5	-26.5	-10.20	1.412	110.9	0.99457	.384	318.1	490.7	0.872	---	10.24	0.630	155.0	209.6	2.9	0.610
4-2140	4-2560	0.642	356.9	-32.8	-13.56	1.394	109.9	0.95017	.596	319.0	493.5	0.880	---	13.57	0.589	153.3	209.5	4.8	0.570
4-2140	4-2580	0.684	7.5	-42.1	-20.04	1.379	109.1	0.91210	.069	319.9	496.1	0.888	---	20.04	0.552	151.5	208.9	8.2	0.539
4-2140	4-2600	0.896	39.1	-50.5	-36.78	1.366	108.2	0.879	7.394	320.9	498.7	0.895	---	36.76	0.518	149.7	205.5	15.7	0.537
4-2140	4-2640	0.836	328.1	53.5	34.15	1.345	107.4	0.827	5.215	321.5	503.8	0.901	---	-34.22	0.461	145.8	203.8	-19.1	0.476
4-2140	4-2660	0.618	327.7	33.0	19.10	1.337	106.8	0.806	4.674	322.2	506.1	0.906	---	-19.19	0.436	143.6	207.1	-13.1	0.420
4-2140	4-2680	0.543	329.3	21.9	13.06	1.330	106.4	0.788	4.292	322.7	508.4	0.910	---	-13.17	0.413	141.5	207.7	-10.1	0.389
4-2140	4-2700	0.507	330.5	15.2	9.88	1.323	106.0	0.772	4.011	323.1	510.7	0.913	---	-10.00	0.393	139.2	207.6	-8.5	0.364
4-2140	4-2720	0.485	331.3	10.8	7.91	1.318	105.7	0.759	3.797	323.5	512.8	0.915	---	-8.06	0.375	136.9	207.2	-7.4	0.342
4-2140	4-2740	0.471	332.0	7.7	6.59	1.314	105.4	0.748	3.631	323.7	514.8	0.917	---	-6.76	0.358	134.5	206.6	-6.7	0.324
4-2140	4-2760	0.460	332.6	5.4	5.63	1.310	105.3	0.738	3.499	323.8	516.8	0.918	---	-5.82	0.343	132.0	205.9	-6.2	0.307
4-2140	4-2780	0.453	333.1	3.6	4.90	1.306	105.1	0.729	3.393	323.9	518.7	0.919	---	-5.11	0.330	129.5	204.9	-5.8	0.292
4-2140	4-2800	0.447	333.6	2.2	4.33	1.303	105.0	0.722	3.307	323.9	520.5	0.919	---	-4.57	0.318	127.0	203.9	-5.4	0.278
4-2140	4-2820	0.443	334.1	1.1	3.87	1.301	105.0	0.716	3.236	323.8	522.3	0.919	---	-4.13	0.307	124.4	202.8	-5.1	0.267
4-2140	4-2840	0.440	334.5	0.2	3.49	1.299	105.0	0.711	3.178	323.7	524.0	0.919	---	-3.77	0.297	121.8	201.5	-4.9	0.256
4-2140	4-2860	0.438	335.0	-0.6	3.17	1.297	105.0	0.707	3.131	323.5	525.6	0.918	---	-3.47	0.289	119.2	200.2	-4.6	0.247
4-2140	4-2880	0.437	335.6	-1.2	2.90	1.295	105.1	0.703	3.091	323.2	527.1	0.917	---	-3.22	0.281	116.5	198.8	-4.4	0.239
4-2140	4-2900	0.437	336.1	-1.8	2.67	1.294	105.2	0.700	3.059	322.9	528.6	0.916	---	-3.01	0.275	113.9	197.4	-4.2	0.232
4-2140	4-2920	0.438	336.7	-2.2	2.46	1.293	105.3	0.698	3.032	322.5	530.0	0.915	---	-2.82	0.269	111.3	195.9	-4.0	0.226
4-2140	4-2940	0.439	337.3	-2.5	2.28	1.292	105.5	0.697	3.010	322.0	531.3	0.913	---	-2.66	0.264	108.7	194.5	-3.8	0.221
4-2140	4-2960	0.441	337.9	-2.8	2.11	1.291	105.7	0.696	2.993	321.5	532.6	0.910	---	-2.52	0.260	106.1	193.0	-3.6	0.217
4-2140	4-2980	0.443	338.6	-3.1	1.97	1.290	105.9	0.695	2.979	320.9	533.9	0.908	---	-2.40	0.256	103.6	191.6	-3.4	0.214
4-2140	4-3000	0.446	339.3	-3.2	1.84	1.290	106.1	0.695	2.968	320.3	535.0	0.905	---	-2.29	0.253	101.1	190.3	-3.2	0.212
4-2140	4-3020	0.450	340.0	-3.4	1.71	1.290	106.4	0.695	2.960	319.6	536.2	0.902	---	-2.19	0.251	98.6	189.0	-3.1	0.211
4-2140	4-3040	0.454	340.7	-3.4	1.60	1.289	106.7	0.696	2.954	318.9	537.3	0.899	---	-2.10	0.249	96.2	187.8	-2.9	0.210
4-2140	4-3060	0.459	341.4	-3.5	1.50	1.289	107.0	0.697	2.950	318.1	538.3	0.895	---	-2.02	0.247	93.9	186.6	-2.7	0.210
4-2140	4-3080	0.464	342.2	-3.5	1.41	1.289	107.4	0.698	2.949	317.3	539.3	0.891	---	-1.95	0.246	91.7	185.6	-2.6	0.210
4-2140	4-3100	0.469	343.0	-3.5	1.32	1.289	107.7	0.699	2.949	316.5	540.2	0.887	5.010	-1.89	0.245	89.5	184.7	-2.5	0.211
4-2140	4-3120	0.475	343.8	-3.5	1.24	1.289	108.1	0.701	2.950	315.6	541.1	0.882	5.018	-1.83	0.244	87.4	184.0	-2.3	0.212
4-2140	4-3140	0.481	344.6	-3.4	1.16	1.289	108.5	0.703	2.952	314.7	542.0	0.877	5.028	-1.77	0.244	85.3	183.3	-2.2	0.214
4-2140	4-3160	0.487	345.4	-3.3	1.09	1.289	108.9	0.705	2.956	313.7	542.8	0.872	5.040	-1.73	0.244	83.3	182.8	-2.1	0.216
4-2140	4-3180	0.494	346.2	-3.2	1.02	1.290	109.3	0.707	2.961	312.7	543.6	0.867	5.055	-1.68	0.245	81.4	182.4	-2.0	0.218
4-2140	4-3200	0.502	347.0	-3.1	0.95	1.290	109.8	0.710	2.967	311.7	544.4	0.861	5.073	-1.64	0.245	79.5	182.1	-1.9	0.220
4-2140	4-3220	0.509	347.8	-2.9	0.89	1.290	110.3	0.713	2.973	310.7	545.1	0.855	5.092	-1.60	0.246	77.7	181.9	-1.8	0.223
4-2140	4-3240	0.517	348.6	-2.8	0.83	1.290	110.7	0.715	2.981	309.6	545.8	0.849	5.113	-1.57	0.246	76.0	181.8	-1.8	0.226
4-2140	4-3260	0.525	349.5	-2.6	0.77	1.291	111.2	0.718	2.989	308.5	546.4	0.842	5.136	-1.54	0.247	74.3	181.8	-1.7	0.229
4-2140	4-3280	0.534	350.3	-2.4	0.72	1.291	111.7	0.721	2.998	307.4	547.1	0.835	5.160	-1.51	0.248	72.7	181.9	-1.6	0.232
4-2140	4-3300	0.543	351.1	-2.2	0.67	1.292	112.3	0.725	3.007	306.2	547.7	0.828	5.186	-1.49	0.249	71.1	182.1	-1.6	0.236
4-2140	4-3320	0.552	351.9	-2.0	0.61	1.292	112.8	0.728	3.017	305.0	548.2	0.820	5.213	-1.46	0.250	69.6	182.4	-1.6	0.239
4-2140	4-3340	0.561	352.8	-1.8	0.57	1.292	113.4	0.732	3.027	303.8	548.8	0.812	5.241	-1.44	0.252	68.1	182.8	-1.5	0.243
4-2140	4-3360	0.571	353.6	-1.6	0.52	1.293	113.9	0.735	3.038	302.6	549.3	0.804	5.271	-1.42	0.253	66.7	183.2	-1.5	0.247
4-2140	4-3380	0.581	354.4	-1.4	0.47	1.293	114.5	0.739	3.049	301.3	549.8	0.796	5.302	-1.40	0.254	65.3	183.8	-1.5	0.250
4-2140	4-3400	0.591	355.2	-1.1	0.43	1.294	115.1	0.743	3.060	300.1	550.2	0.787	5.333	-1.39	0.256	63.9	184.3	-1.5	0.254
4-2140	4-3420	0.602	356.0	-0.9	0.38	1.294	115.7	0.747	3.072	298.8	550.7	0.778	5.366	-1.37	0.257	62.6	185.0	-1.5	0.258
4-2140	4-3440	0.612	356.9	-0.7	0.34	1.295	116.3	0.751	3.084	297.5	551.1	0.769	5.400	-1.36	0.259	61.3	185.7	-1.5	0.262
4-2140	4-3460	0.623	357.7	-0.4	0.30	1.295	117.0	0.755	3.097	296.1	551.4	0.759	5.434	-1.35	0.260	60.1	186.5	-1.5	0.266
4-2140	4-3480	0.635	358.5	-0.2	0.26	1.296	117.6	0.759	3.109	294.8	551.8	0.749	5.469	-1.34	0.262	58.9	187.3	-1.5	0.270
4-2140	4-3500	0.646	359.3	0.1	0.22	1.296	118.3	0.763	3.122	293.4	552.1	0.739	5.505	-1.33	0.263	57.7	188.2	-1.5	0.274
4-2140	4-3520	0.658	0.0	0.4	0.18	1.297	118.9	0.768	3.135	292.0	552.5	0.728	5.542	-1.32	0.265	56.5	189.1	-1.5	0.278
4-2140	4-3540	0.670	0.8	0.6	0.14	1.297	119.6	0.772	3.149	290.6	552.8	0.718	5.580	-1.32	0.266	55.4	190.1	-1.6	0.282
4-2140	4-3560	0.682	1.6	0.9	0.10	1.298	120.3	0.777	3.162	289.2	553.0	0.707	5.618	-1.31	0.268	54.3	191.1	-1.6	0.286
4-2140	4-3580	0.694	2.4	1.1	0.06	1.298	121.0	0.781	3.176	287.8	553.3	0.695	5.657	-1.31	0.269	53.2	192.1	-1.6	0.290
4-2140	4-3600	0.707	3.2	1.4	0.02	1.299	121.7	0.786	3.190	286.3	553.5	0.684	5.696	-1.31	0.271	52.1	193.2	-1.6	0.294
4-2140	4-3620	0.720	4.0	1.7	-0.02	1.299	122.4	0.790	3.204	284.9	553.7	0.672	5.736	-1.30	0.272	51.1	194.3	-1.7	0.299
4-2140	4-3640	0.733	4.7	2.0	-0.06	1.300	123.1	0.795	3.218	283.4	553.9	0.660	5.777	-1.30	0.274	50.0	195.4	-1.7	0.303
4-2140	4-3660	0.746	5.5	2.2	-0.09	1.301	123.9	0.800	3.233	281.9	554.1	0.647	5.818	-1.31	0.275	49.0	196.6	-1.8	0.307
4-2140	4-3680	0.760	6.2	2.5	-0.13	1.301	124.6	0.805	3.247	280.4	554.3	0.634	5.860	-1.31	0.277	48.0	197.8	-1.8	0.311
4-2140	4-3700	0.773	7.0	2.8	-0.17	1.302	125.4	0.809	3.262	278.9	554.4	0.621	5.902	-1.31	0.278	47.0	199.0	-1.8	0.315
4-2140	4-3720	0.787	7.8	3.0	-0.21	1.302	126.2	0.814	3.276	277.3	554.5	0.608	5.945	-1.31	0.280	46.0	200.3	-1.9	0.319
4-2140	4-3740	0.801	8.5	3.3	-0.25	1.303	127.0	0.819	3.291	275.8	554.6	0.595	5.988	-1.32	0.281	45.1	201.6	-1.9	0.323
4-2150	4-2510	0.626	349.2	-13.8	-3.81	1.455	109.1	1.109	-8.275	323.7	483.8	0.900	---	3.76	0.724	157.4	210.5	-0.1	0.698
4-2150	4-2530	0.591	349.0	-15.3	-4.19	1.430	108.0	1.04520	.150	324.8	486.7	0.909	---	4.13	0.673	155.9	210.8	0.2	0.646
4-2150	4-2550	0.562	348.8	-17.0	-4.67	1.409	107.0	0.99104	.818	325.8	489.6	0.916	---	4.58	0.628	154.3	211.0	0.5	0.599
4-2150	4-2570	0.537	348.9	-19.1	-5.26	1.391	106.1	0.94516	.911	326.8	492.4	0.923	---	5.15	0.587	152.6	211.2	0.9	0.558
4-2150	4-2590	0.518	349.3	-21.6	-6.01	1.376	105.3	0.906	9.912	327.7	495.1	0.929	---	5.88	0.550	150.8	211.3	1.4	0.520
4-2150	4-2610	0.503	350.2	-24.6	-7.02	1.363	104.6	0.873	7.342	328.6	497.8	0.934	---	6.87	0.517	148.9	211.2	2.2	0.486
4-2150	4-2630	0.496	351.8	-28.5	-8.43	1.352	104.0	0.844	6.017	329.3	500.4	0.938	---	8.26	0.488	147.0	211.1	3.2	0.456
4-2150	4-2650	0.498	355.0	-33.8	-10.56	1.343	103.5	0.819	5.215	330.0	502.9	0.942	---	10.37	0.461	145.0	210.8	4.8	0.429
4-2150	4-2670	0.520	1.4	-41.1	-14.12	1.335	103.0	0.798	4.682	330.7	505.4	0.946	---	13.91	0.436	142.9	210.1	7.4	0.408
4-2150	4-2690	0.598	17.1	-50.8	-21.21	1.328	102.5	0.780	4.305	331.3	507.7	0.949	---	20.98	0.414	140.7	208.7	12.3	0.396
4-2150	4-2710	0.892	59.3	-54.1	-40.64	1.322	102.1	0.764	4.027	331.9	510.0	0.952	---	40.39	0.394	138.4	203.4	22.2	0.427
4-2150	4-2730	1.444	80.8	82.8	75.28	1.316	102.4	0.751	3.815	330.9	512.2	0.948	---	-75.55	0.376	136.3	188.4	-28.3	0.540
4-2150	4-2750	0.718	320.6	56.2	30.33	1.312	102.0	0.739	3.649	331.8	514.3	0.952	---	-30.62	0.360	133.8	202.6	-22.4	0.366
4-2150	4-2770	0.527	324.4	36.2	17.46	1.308	101.7	0.729	3.518	332.1	516.3	0.953	---	-17.77	0.345	131.4	205.2	-15.7	0.319
4-2150	4-2790	0.461	327.3	24.8	12.08	1.305	101.6	0.720	3.413	332.2	518.2	0.954	---	-12.41	0.332	128.9	205.2	-12.1	0.296
4-2150	4-2810	0.431	329.3	17.6	9.16	1.302	101.5	0.713	3.327	332.3	520.0	0.955	---	-9.52	0.321	126.4	204.6	-10.1	0.279
4-2150	4-2830	0.415	330.8	12.8	7.35	1.299	101.4	0.707	3.257	332.3	521.8	0.955	---	-7.72	0.310	123.9	203.7	-8.7	0.266

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2150	4-2850	0.405	332.1	9.4	6.10	1.297	101.4	0.702	3.200	332.1	523.5	0.955	---	-6.50	0.301	121.3	202.6	-7.7	0.254
4-2150	4-2870	0.400	333.1	6.8	5.20	1.295	101.5	0.697	3.152	331.9	525.1	0.954	---	-5.61	0.292	118.8	201.4	-7.0	0.245
4-2150	4-2890	0.396	334.1	4.9	4.51	1.294	101.5	0.694	3.113	331.7	526.7	0.953	---	-4.95	0.285	116.2	200.1	-6.4	0.236
4-2150	4-2910	0.394	335.0	3.4	3.97	1.292	101.6	0.691	3.080	331.4	528.2	0.952	---	-4.42	0.279	113.6	198.7	-5.9	0.229
4-2150	4-2930	0.393	335.9	2.2	3.53	1.291	101.8	0.689	3.054	331.0	529.6	0.951	---	-4.01	0.273	111.1	197.3	-5.5	0.223
4-2150	4-2950	0.393	336.8	1.3	3.17	1.290	101.9	0.687	3.032	330.5	531.0	0.950	---	-3.66	0.268	108.6	195.8	-5.1	0.218
4-2150	4-2970	0.394	337.6	0.5	2.86	1.290	102.1	0.686	3.015	330.0	532.3	0.948	---	-3.38	0.264	106.1	194.4	-4.8	0.214
4-2150	4-2990	0.396	338.5	-0.1	2.60	1.289	102.3	0.685	3.001	329.5	533.5	0.946	---	-3.14	0.261	103.6	193.0	-4.5	0.211
4-2150	4-3010	0.398	339.4	-0.6	2.37	1.289	102.6	0.684	2.990	328.9	534.7	0.944	---	-2.93	0.258	101.2	191.7	-4.2	0.208
4-2150	4-3030	0.401	340.3	-0.9	2.17	1.288	102.8	0.684	2.982	328.2	535.8	0.941	---	-2.75	0.255	98.9	190.4	-3.9	0.206
4-2150	4-3050	0.404	341.2	-1.2	2.00	1.288	103.1	0.685	2.976	327.5	536.9	0.939	---	-2.60	0.253	96.6	189.2	-3.7	0.205
4-2150	4-3070	0.408	342.1	-1.5	1.84	1.288	103.4	0.685	2.973	326.8	538.0	0.936	---	-2.46	0.252	94.4	188.1	-3.5	0.205
4-2150	4-3090	0.412	343.1	-1.6	1.70	1.288	103.8	0.686	2.971	326.0	539.0	0.933	---	-2.34	0.251	92.2	187.1	-3.2	0.205
4-2150	4-3110	0.416	344.0	-1.7	1.57	1.288	104.1	0.687	2.971	325.1	540.0	0.929	---	-2.24	0.250	90.1	186.2	-3.1	0.206
4-2150	4-3130	0.421	344.9	-1.8	1.45	1.288	104.5	0.689	2.972	324.3	540.9	0.926	5.019	-2.14	0.249	88.1	185.4	-2.9	0.207
4-2150	4-3150	0.427	345.9	-1.8	1.35	1.288	104.8	0.690	2.975	323.4	541.8	0.922	5.028	-2.06	0.249	86.1	184.7	-2.7	0.208
4-2150	4-3170	0.432	346.9	-1.7	1.25	1.288	105.2	0.692	2.979	322.4	542.6	0.918	5.040	-1.98	0.249	84.2	184.2	-2.6	0.210
4-2150	4-3190	0.438	347.8	-1.7	1.16	1.288	105.7	0.694	2.984	321.5	543.4	0.913	5.054	-1.91	0.249	82.4	183.7	-2.4	0.212
4-2150	4-3210	0.445	348.8	-1.6	1.07	1.289	106.1	0.696	2.989	320.5	544.2	0.908	5.070	-1.85	0.250	80.6	183.4	-2.3	0.214
4-2150	4-3230	0.452	349.7	-1.5	0.99	1.289	106.5	0.698	2.996	319.5	544.9	0.904	5.089	-1.79	0.250	78.9	183.2	-2.2	0.216
4-2150	4-3250	0.459	350.7	-1.3	0.92	1.289	107.0	0.701	3.003	318.4	545.6	0.898	5.109	-1.74	0.251	77.2	183.1	-2.1	0.219
4-2150	4-3270	0.466	351.6	-1.2	0.84	1.290	107.5	0.704	3.012	317.3	546.3	0.893	5.130	-1.69	0.252	75.6	183.1	-2.0	0.222
4-2150	4-3290	0.474	352.6	-1.0	0.78	1.290	107.9	0.706	3.020	316.2	547.0	0.887	5.153	-1.65	0.253	74.0	183.1	-2.0	0.225
4-2150	4-3310	0.482	353.6	-0.8	0.71	1.290	108.4	0.709	3.030	315.1	547.6	0.881	5.178	-1.61	0.254	72.5	183.3	-1.9	0.228
4-2150	4-3330	0.490	354.5	-0.6	0.65	1.291	108.9	0.712	3.039	313.9	548.2	0.875	5.204	-1.57	0.255	71.1	183.6	-1.8	0.231
4-2150	4-3350	0.498	355.4	-0.4	0.60	1.291	109.5	0.715	3.050	312.7	548.7	0.868	5.231	-1.54	0.256	69.7	183.9	-1.8	0.235
4-2150	4-3370	0.507	356.4	-0.2	0.54	1.292	110.0	0.719	3.060	311.5	549.3	0.861	5.259	-1.51	0.257	68.3	184.3	-1.8	0.238
4-2150	4-3390	0.516	357.3	0.1	0.49	1.292	110.6	0.722	3.071	310.3	549.8	0.854	5.288	-1.48	0.259	67.0	184.8	-1.7	0.242
4-2150	4-3410	0.525	358.2	0.3	0.44	1.293	111.1	0.725	3.083	309.1	550.3	0.847	5.319	-1.46	0.260	65.7	185.4	-1.7	0.245
4-2150	4-3430	0.535	359.1	0.6	0.39	1.293	111.7	0.729	3.095	307.8	550.7	0.839	5.350	-1.44	0.261	64.5	186.0	-1.7	0.249
4-2150	4-3450	0.545	0.0	0.8	0.34	1.294	112.3	0.732	3.107	306.6	551.2	0.831	5.382	-1.41	0.263	63.3	186.7	-1.7	0.252
4-2150	4-3470	0.555	0.9	1.1	0.29	1.294	112.9	0.736	3.119	305.3	551.6	0.823	5.415	-1.40	0.264	62.1	187.4	-1.7	0.256
4-2150	4-3490	0.565	1.8	1.4	0.25	1.295	113.5	0.740	3.132	303.9	552.0	0.814	5.449	-1.38	0.265	60.9	188.2	-1.7	0.260
4-2150	4-3510	0.576	2.7	1.6	0.20	1.295	114.1	0.744	3.145	302.6	552.4	0.805	5.484	-1.36	0.267	59.8	189.0	-1.7	0.263
4-2150	4-3530	0.587	3.6	1.9	0.16	1.296	114.7	0.748	3.158	301.3	552.7	0.796	5.519	-1.35	0.268	58.7	189.9	-1.7	0.267
4-2150	4-3550	0.598	4.5	2.2	0.12	1.296	115.4	0.752	3.171	299.9	553.0	0.787	5.555	-1.34	0.270	57.6	190.8	-1.7	0.271
4-2150	4-3570	0.609	5.3	2.5	0.08	1.297	116.0	0.756	3.184	298.5	553.3	0.777	5.592	-1.32	0.271	56.6	191.8	-1.7	0.275
4-2150	4-3590	0.620	6.2	2.7	0.04	1.297	116.7	0.760	3.198	297.1	553.6	0.767	5.629	-1.31	0.273	55.5	192.8	-1.7	0.278
4-2150	4-3610	0.632	7.0	3.0	0.00	1.298	117.3	0.764	3.212	295.7	553.9	0.757	5.667	-1.31	0.274	54.5	193.9	-1.8	0.282
4-2150	4-3630	0.644	7.8	3.3	-0.04	1.298	118.0	0.769	3.226	294.3	554.2	0.746	5.705	-1.30	0.276	53.5	194.9	-1.8	0.286
4-2150	4-3650	0.656	8.7	3.6	-0.08	1.299	118.7	0.773	3.240	292.9	554.4	0.735	5.745	-1.29	0.277	52.6	196.0	-1.8	0.290
4-2150	4-3670	0.668	9.5	3.9	-0.11	1.299	119.4	0.777	3.254	291.4	554.6	0.724	5.784	-1.29	0.279	51.6	197.2	-1.9	0.294
4-2150	4-3690	0.681	10.3	4.2	-0.15	1.300	120.1	0.782	3.268	290.0	554.8	0.713	5.824	-1.28	0.280	50.7	198.3	-1.9	0.297
4-2150	4-3710	0.693	11.1	4.5	-0.19	1.300	120.8	0.786	3.283	288.5	555.0	0.701	5.865	-1.28	0.281	49.7	199.5	-1.9	0.301
4-2150	4-3730	0.706	11.9	4.7	-0.23	1.301	121.6	0.791	3.298	287.0	555.2	0.689	5.906	-1.28	0.283	48.8	200.7	-2.0	0.305
4-2150	4-3750	0.719	12.7	5.0	-0.26	1.301	122.3	0.796	3.312	285.5	555.3	0.677	5.947	-1.28	0.284	47.9	202.0	-2.0	0.309
4-2160	4-2480	0.650	350.9	-9.7	-2.40	1.513	107.3	1.276-3.352		329.2	476.8	0.926	---	2.27	0.838	159.5	211.0	-0.8	0.808
4-2160	4-2500	0.604	350.1	-10.8	-2.54	1.478	106.1	1.183-5.110		330.4	479.8	0.934	---	2.39	0.774	158.1	211.4	-0.7	0.743
4-2160	4-2520	0.565	349.3	-11.9	-2.70	1.450	104.9	1.105-8.964		331.6	482.9	0.942	---	2.53	0.718	156.7	211.7	-0.6	0.686
4-2160	4-2540	0.532	348.6	-13.1	-2.88	1.425	103.9	1.04023.781		332.8	485.9	0.949	---	2.69	0.668	155.1	212.0	-0.4	0.635
4-2160	4-2560	0.504	347.9	-14.3	-3.08	1.405	103.0	0.98563.605		333.9	488.8	0.954	---	2.87	0.623	153.5	212.2	-0.3	0.589
4-2160	4-2580	0.480	347.2	-15.7	-3.31	1.388	102.1	0.93815.591		334.9	491.7	0.959	---	3.08	0.583	151.8	212.3	-0.1	0.548
4-2160	4-2600	0.459	346.7	-17.1	-3.58	1.373	101.4	0.899	9.532	335.9	494.5	0.964	---	3.33	0.547	150.0	212.4	0.1	0.511
4-2160	4-2620	0.442	346.3	-18.7	-3.90	1.360	100.7	0.865	7.174	336.8	497.3	0.968	---	3.63	0.514	148.2	212.4	0.4	0.477
4-2160	4-2640	0.428	346.1	-20.5	-4.28	1.349	100.2	0.836	5.929	337.7	499.9	0.971	---	3.99	0.485	146.2	212.2	0.8	0.447
4-2160	4-2660	0.417	346.1	-22.5	-4.74	1.340	99.7	0.811	5.165	338.4	502.5	0.974	---	4.43	0.459	144.2	212.0	1.2	0.419
4-2160	4-2680	0.408	346.5	-24.7	-5.33	1.332	99.2	0.790	4.652	339.1	505.0	0.976	---	5.00	0.435	142.1	211.7	1.8	0.394
4-2160	4-2700	0.403	347.2	-27.4	-6.08	1.325	98.9	0.772	4.288	339.6	507.4	0.978	---	5.73	0.413	140.0	211.3	2.5	0.371
4-2160	4-2720	0.401	348.6	-30.7	-7.09	1.319	98.6	0.756	4.018	340.1	509.7	0.979	---	6.72	0.394	137.7	210.7	3.5	0.351
4-2160	4-2740	0.405	351.0	-35.0	-8.51	1.314	98.3	0.743	3.812	340.5	511.9	0.981	---	8.13	0.376	135.4	210.0	4.9	0.333
4-2160	4-2760	0.420	355.3	-40.7	-10.70	1.310	98.1	0.731	3.651	340.8	514.0	0.982	---	10.29	0.360	133.1	209.2	7.0	0.318
4-2160	4-2780	0.457	4.0	-48.5	-14.43	1.306	97.9	0.721	3.523	341.0	516.0	0.982	---	14.00	0.346	130.7	208.0	10.5	0.308
4-2160	4-2800	0.561	25.7	-57.8	-22.18	1.303	97.8	0.713	3.420	341.2	518.0	0.983	---	21.73	0.333	128.2	205.9	16.9	0.311
4-2160	4-2820	0.939	77.8	-55.2	-45.31	1.300	97.6	0.705	3.336	341.5	519.8	0.984	---	44.85	0.322	125.7	199.1	28.3	0.377
4-2160	4-2840	1.233	218.7	87.2	63.05	1.297	98.1	0.700	3.268	340.2	521.6	0.981	---	-63.53	0.311	123.3	189.6	-32.0	0.446
4-2160	4-2860	0.617	314.4	54.8	26.07	1.295	97.9	0.694	3.211	340.6	523.3	0.982	---	-26.57	0.302	120.8	199.4	-24.3	0.294
4-2160	4-2880	0.460	321.8	36.2	15.43	1.294	97.9	0.690	3.165	340.5	524.9	0.982	---	-15.96	0.294	118.2	200.7	-17.2	0.257
4-2160	4-2900	0.406	325.9	25.0	10.79	1.292	98.0	0.686	3.126	340.3	526.5	0.981	---	-11.33	0.287	115.7	200.2	-13.3	0.241
4-2160	4-2920	0.381	328.7	17.9	8.22	1.291	98.1	0.683	3.095	340.0	528.0	0.981	---	-8.78	0.281	113.2	199.2	-10.9	0.230
4-2160	4-2940	0.369	330.8	13.1	6.58	1.290	98.2	0.681	3.069	339.6	529.4	0.980	---	-7.17	0.276	110.7	198.0	-9.3	0.222
4-2160	4-2960	0.363	332.6	9.6	5.46	1.289	98.4	0.679	3.048	339.2	530.8	0.979	---	-6.06	0.271	108.3	196.6	-8.1	0.217
4-2160	4-2980	0.360	334.1	7.1	4.63	1.288	98.6	0.677	3.031	338.7	532.1	0.978	---	-5.25	0.267	105.8	195.3	-7.2	0.212
4-2160	4-3000	0.359	335.6	5.2	4.00	1.288	98.8	0.676	3.017	338.2	533.3	0.976	---	-4.64	0.264	103.5	194.0	-6.5	0.208
4-2160	4-3020	0.359	336.9	3.8	3.50	1.287	99.0	0.676	3.007	337.6	534.5	0.975	---	-4.16	0.261	101.1	192.7	-5.9	0.205
4-2160	4-3040	0.360	338.2	2.7	3.09	1.287	99.3	0.676	2.999	336.9	535.7	0.973	---	-3.77	0.259	98.9	191.4	-5.4	0.204
4-2160	4-3060	0.362	339.5	1.8	2.76	1.287	99.6	0.676	2.994	336.2	536.8	0.971	---	-3.46	0.257	96.7	190.2	-4.9	0.202
4-2160	4-3080	0.364	340.7	1.2	2.47	1.287	99.9	0.676	2.991	335.5	537.8	0.969	---	-3.19	0.255	94.5	189.2	-4.5	0.202
4-2160	4-3100	0.367	341.9	0.7	2.23	1.286	100.2	0.677	2.989	334.7	538.8	0.966	---	-2.97	0.254	92.4	188.2	-4.2	0.201
4-2160	4-3120	0.371	343.1	0.3	2.02	1.286	100.5	0.678	2.990	333.9	539.8	0.964	---	-2.78	0.254	90.4	187.3	-3.9	0.202
4-2160	4-3140	0.375	344.3	0.0	1.83	1.287	100.9	0.679	2.991	333.0	540.7	0.961	5.021	-2.61	0.253	88.5	186.5	-3.6	0.203

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2160	4-3160	0.379	345.5	-0.2	1.67	1.287	101.2	0.680	2.994	332.1	541.6	0.958	5.030	-2.47	0.253	86.6	185.8	-3.4	0.204
4-2160	4-3180	0.384	346.7	-0.3	1.52	1.287	101.6	0.681	2.998	331.2	542.5	0.955	5.041	-2.34	0.253	84.7	185.3	-3.2	0.205
4-2160	4-3200	0.389	347.9	-0.3	1.39	1.287	102.0	0.683	3.003	330.2	543.3	0.952	5.055	-2.23	0.253	83.0	184.8	-3.0	0.207
4-2160	4-3220	0.394	349.0	-0.3	1.27	1.287	102.4	0.685	3.009	329.3	544.1	0.948	5.070	-2.13	0.254	81.3	184.5	-2.8	0.209
4-2160	4-3240	0.400	350.2	-0.3	1.16	1.288	102.9	0.687	3.016	328.2	544.8	0.944	5.088	-2.04	0.254	79.6	184.3	-2.6	0.211
4-2160	4-3260	0.406	351.4	-0.2	1.06	1.288	103.3	0.689	3.023	327.2	545.5	0.940	5.107	-1.96	0.255	78.0	184.2	-2.5	0.214
4-2160	4-3280	0.412	352.5	-0.1	0.96	1.288	103.8	0.691	3.032	326.1	546.2	0.936	5.128	-1.89	0.256	76.5	184.1	-2.4	0.216
4-2160	4-3300	0.419	353.6	0.1	0.88	1.289	104.2	0.694	3.040	325.0	546.9	0.931	5.150	-1.82	0.257	75.0	184.2	-2.3	0.219
4-2160	4-3320	0.426	354.8	0.3	0.80	1.289	104.7	0.696	3.050	323.9	547.5	0.926	5.173	-1.76	0.258	73.6	184.4	-2.2	0.222
4-2160	4-3340	0.433	355.9	0.5	0.72	1.289	105.2	0.699	3.060	322.8	548.1	0.921	5.198	-1.71	0.259	72.2	184.6	-2.1	0.225
4-2160	4-3360	0.441	357.0	0.7	0.65	1.290	105.7	0.702	3.070	321.6	548.7	0.916	5.224	-1.66	0.260	70.9	184.9	-2.1	0.228
4-2160	4-3380	0.449	358.1	0.9	0.58	1.290	106.2	0.705	3.081	320.5	549.3	0.910	5.251	-1.61	0.261	69.6	185.3	-2.0	0.231
4-2160	4-3400	0.457	359.2	1.2	0.52	1.291	106.7	0.708	3.092	319.3	549.8	0.904	5.280	-1.57	0.262	68.3	185.8	-1.9	0.234
4-2160	4-3420	0.465	0.2	1.4	0.46	1.291	107.3	0.711	3.104	318.0	550.3	0.898	5.309	-1.54	0.263	67.1	186.3	-1.9	0.238
4-2160	4-3440	0.474	1.3	1.7	0.40	1.292	107.8	0.714	3.115	316.8	550.8	0.892	5.339	-1.50	0.265	65.9	186.9	-1.9	0.241
4-2160	4-3460	0.482	2.3	2.0	0.35	1.292	108.4	0.717	3.128	315.6	551.3	0.885	5.370	-1.47	0.266	64.8	187.6	-1.9	0.244
4-2160	4-3480	0.491	3.4	2.3	0.30	1.293	108.9	0.720	3.140	314.3	551.7	0.878	5.402	-1.44	0.268	63.7	188.3	-1.8	0.248
4-2160	4-3500	0.501	4.4	2.5	0.25	1.293	109.5	0.724	3.153	313.0	552.1	0.871	5.434	-1.41	0.269	62.6	189.1	-1.8	0.251
4-2160	4-3520	0.510	5.4	2.8	0.20	1.294	110.1	0.727	3.165	311.7	552.5	0.864	5.467	-1.39	0.270	61.5	189.9	-1.8	0.254
4-2160	4-3540	0.520	6.4	3.1	0.15	1.294	110.7	0.731	3.179	310.4	552.9	0.856	5.501	-1.37	0.272	60.5	190.7	-1.8	0.258
4-2160	4-3560	0.530	7.3	3.4	0.11	1.295	111.3	0.734	3.192	309.1	553.3	0.848	5.536	-1.35	0.273	59.4	191.6	-1.8	0.261
4-2160	4-3580	0.540	8.3	3.7	0.06	1.295	111.9	0.738	3.205	307.7	553.6	0.840	5.571	-1.33	0.274	58.5	192.6	-1.8	0.265
4-2160	4-3600	0.551	9.3	4.0	0.02	1.296	112.5	0.742	3.219	306.3	553.9	0.831	5.607	-1.31	0.276	57.5	193.5	-1.9	0.268
4-2160	4-3620	0.562	10.2	4.4	-0.02	1.296	113.2	0.746	3.233	305.0	554.2	0.822	5.643	-1.30	0.277	56.5	194.6	-1.9	0.272
4-2160	4-3640	0.572	11.1	4.7	-0.06	1.297	113.8	0.750	3.247	303.6	554.5	0.813	5.680	-1.28	0.279	55.6	195.6	-1.9	0.275
4-2160	4-3660	0.584	12.1	5.0	-0.10	1.297	114.5	0.754	3.261	302.2	554.8	0.803	5.718	-1.27	0.280	54.7	196.7	-1.9	0.279
4-2160	4-3680	0.595	13.0	5.3	-0.14	1.298	115.1	0.758	3.275	300.8	555.0	0.794	5.756	-1.26	0.282	53.8	197.8	-2.0	0.282
4-2160	4-3700	0.606	13.9	5.6	-0.18	1.298	115.8	0.762	3.289	299.4	555.3	0.784	5.795	-1.25	0.283	52.9	198.9	-2.0	0.286
4-2160	4-3720	0.618	14.8	5.9	-0.21	1.299	116.5	0.766	3.304	297.9	555.5	0.773	5.834	-1.24	0.284	52.0	200.1	-2.0	0.289
4-2160	4-3740	0.630	15.7	6.2	-0.25	1.299	117.2	0.770	3.318	296.5	555.7	0.763	5.873	-1.24	0.286	51.2	201.3	-2.1	0.293
4-2160	4-3760	0.642	16.5	6.5	-0.28	1.300	117.9	0.774	3.333	295.0	555.9	0.752	5.913	-1.23	0.287	50.3	202.5	-2.1	0.296
4-2170	4-2470	0.640	351.5	-8.5	-1.87	1.545	104.0	1.385-2.486		335.9	472.9	0.957	---	1.64	0.898	160.2	211.6	-1.0	0.864
4-2170	4-2490	0.590	350.4	-9.4	-1.95	1.505	102.7	1.270-3.577		337.3	476.1	0.964	---	1.69	0.826	158.8	212.0	-1.0	0.792
4-2170	4-2510	0.547	349.2	-10.5	-2.04	1.471	101.6	1.175-5.553		338.6	479.3	0.970	---	1.76	0.764	157.4	212.4	-0.9	0.729
4-2170	4-2530	0.511	348.0	-11.6	-2.13	1.443	100.5	1.09610-.149		339.9	482.4	0.976	---	1.83	0.709	156.0	212.7	-0.9	0.673
4-2170	4-2550	0.481	346.9	-12.7	-2.23	1.420	99.6	1.03132.116		341.2	485.5	0.981	---	1.91	0.660	154.4	213.0	-0.8	0.623
4-2170	4-2570	0.455	345.7	-13.8	-2.34	1.400	98.7	0.97540.179		342.4	488.5	0.985	---	2.00	0.616	152.8	213.1	-0.7	0.578
4-2170	4-2590	0.433	344.6	-15.0	-2.46	1.383	98.0	0.92913.916		343.5	491.5	0.988	---	2.10	0.576	151.1	213.2	-0.6	0.538
4-2170	4-2610	0.414	343.6	-16.2	-2.60	1.369	97.3	0.890	8.977	344.5	494.3	0.991	---	2.22	0.541	149.3	213.3	-0.5	0.501
4-2170	4-2630	0.399	342.7	-17.4	-2.75	1.356	96.7	0.856	6.905	345.5	497.1	0.993	---	2.35	0.509	147.4	213.2	-0.3	0.468
4-2170	4-2650	0.385	341.9	-18.7	-2.91	1.346	96.2	0.828	5.773	346.4	499.9	0.995	---	2.50	0.480	145.5	213.0	-0.1	0.438
4-2170	4-2670	0.374	341.2	-19.9	-3.10	1.337	95.7	0.803	5.066	347.2	502.5	0.997	---	2.67	0.454	143.4	212.7	0.1	0.411
4-2170	4-2690	0.365	340.7	-21.3	-3.32	1.329	95.3	0.782	4.586	347.9	505.0	0.998	---	2.87	0.431	141.3	212.5	0.4	0.386
4-2170	4-2710	0.358	340.4	-22.6	-3.58	1.322	95.0	0.766	4.242	348.4	507.4	0.999	---	3.11	0.410	139.2	212.0	0.7	0.363
4-2170	4-2730	0.352	340.3	-24.1	-3.88	1.317	94.7	0.749	3.986	348.9	509.7	1.000	---	3.39	0.391	136.9	211.5	1.0	0.343
4-2170	4-2750	0.347	340.4	-25.8	-4.24	1.312	94.5	0.736	3.789	349.3	511.9	1.001	---	3.74	0.374	134.6	210.8	1.5	0.324
4-2170	4-2770	0.345	340.9	-27.6	-4.69	1.307	94.4	0.725	3.635	349.6	514.1	1.001	---	4.16	0.358	132.3	210.1	2.1	0.307
4-2170	4-2790	0.344	341.7	-29.7	-5.25	1.304	94.2	0.715	3.512	349.8	516.1	1.001	---	4.70	0.345	129.9	209.2	2.8	0.292
4-2170	4-2810	0.345	342.9	-32.3	-5.97	1.301	94.2	0.707	3.413	350.0	518.0	1.002	---	5.41	0.332	127.5	208.2	3.7	0.279
4-2170	4-2830	0.349	344.9	-35.5	-6.96	1.298	94.1	0.699	3.333	350.0	519.9	1.002	---	6.38	0.321	125.0	207.1	4.9	0.268
4-2170	4-2850	0.359	348.0	-39.8	-8.36	1.295	94.1	0.693	3.267	350.0	521.7	1.002	---	7.76	0.311	122.5	205.9	6.6	0.258
4-2170	4-2870	0.379	353.3	-45.6	-10.54	1.293	94.1	0.688	3.213	349.9	523.4	1.002	---	9.93	0.302	120.0	204.6	9.1	0.251
4-2170	4-2890	0.424	3.8	-53.6	-14.37	1.292	94.2	0.684	3.168	349.7	525.0	1.001	---	13.74	0.295	117.5	203.1	13.2	0.249
4-2170	4-2910	0.546	31.7	-62.9	-22.75	1.290	94.2	0.680	3.132	349.5	526.6	1.001	---	22.10	0.288	115.0	200.9	20.8	0.263
4-2170	4-2930	1.018	93.5	-54.8	-50.77	1.289	94.2	0.677	3.101	349.5	528.1	1.001	---	50.10	0.282	112.6	194.7	32.3	0.366
4-2170	4-2950	1.022	261.4	78.9	51.01	1.288	94.8	0.675	3.077	348.0	529.4	0.999	---	-51.69	0.277	110.2	189.9	-34.0	0.370
4-2170	4-2970	0.531	311.7	50.6	21.81	1.287	94.9	0.673	3.057	347.9	530.8	0.999	---	-22.51	0.272	107.8	194.8	-24.2	0.250
4-2170	4-2990	0.409	320.9	33.5	13.21	1.287	95.0	0.672	3.041	347.5	532.1	0.998	---	-13.93	0.269	105.4	194.9	-17.1	0.223
4-2170	4-3010	0.366	325.8	23.1	9.31	1.286	95.2	0.671	3.028	346.9	533.3	0.998	---	-10.05	0.266	103.1	194.1	-13.0	0.212
4-2170	4-3030	0.348	329.1	16.4	7.10	1.286	95.5	0.670	3.018	346.4	534.5	0.997	---	-7.86	0.263	100.8	193.0	-10.5	0.207
4-2170	4-3050	0.339	331.8	11.9	5.68	1.285	95.7	0.669	3.011	345.7	535.7	0.995	---	-6.45	0.261	98.6	191.9	-8.8	0.203
4-2170	4-3070	0.336	334.0	8.7	4.69	1.285	96.0	0.669	3.007	345.0	536.8	0.994	---	-5.48	0.259	96.5	190.8	-7.6	0.201
4-2170	4-3090	0.334	336.0	6.4	3.96	1.285	96.3	0.670	3.004	344.3	537.8	0.993	---	-4.77	0.258	94.4	189.8	-6.7	0.200
4-2170	4-3110	0.334	337.8	4.8	3.39	1.285	96.6	0.670	3.003	343.5	538.8	0.991	---	-4.22	0.257	92.4	188.9	-5.9	0.199
4-2170	4-3130	0.336	339.5	3.5	2.95	1.285	96.9	0.671	3.004	342.7	539.8	0.990	---	-3.79	0.256	90.4	188.0	-5.3	0.200
4-2170	4-3150	0.338	341.2	2.6	2.58	1.285	97.3	0.671	3.006	341.8	540.7	0.988	5.024	-3.45	0.256	88.6	187.3	-4.8	0.200
4-2170	4-3170	0.341	342.7	1.9	2.28	1.285	97.7	0.672	3.009	340.9	541.6	0.986	5.033	-3.16	0.256	86.7	186.6	-4.4	0.201
4-2170	4-3190	0.344	344.3	1.4	2.02	1.286	98.0	0.674	3.014	340.0	542.4	0.984	5.044	-2.92	0.256	85.0	186.1	-4.0	0.202
4-2170	4-3210	0.347	345.8	1.1	1.80	1.286	98.4	0.675	3.019	339.1	543.3	0.981	5.057	-2.72	0.256	83.3	185.7	-3.7	0.204
4-2170	4-3230	0.352	347.3	0.9	1.61	1.286	98.8	0.677	3.025	338.1	544.0	0.979	5.072	-2.55	0.257	81.7	185.4	-3.4	0.206
4-2170	4-3250	0.358	348.7	0.8	1.44	1.286	99.2	0.678	3.032	337.1	544.8	0.976	5.089	-2.40	0.257	80.1	185.2	-3.2	0.208
4-2170	4-3270	0.361	350.2	0.7	1.29	1.287	99.7	0.680	3.040	336.0	545.5	0.973	5.107	-2.27	0.258	78.6	185.1	-3.0	0.210
4-2170	4-3290	0.366	351.6	0.7	1.16	1.287	100.1	0.682	3.049	335.0	546.2	0.970	5.128	-2.15	0.259	77.1	185.0	-2.8	0.212
4-2170	4-3310	0.372	353.0	0.8	1.04	1.287	100.6	0.684	3.058	333.9	546.9	0.966	5.149	-2.05	0.260	75.7	185.1	-2.7	0.215
4-2170	4-3330	0.377	354.4	1.0	0.93	1.288	101.0	0.686	3.067	332.8	547.5	0.963	5.172	-1.96	0.261	74.3	185.3	-2.5	0.217
4-2170	4-3350	0.383	355.7	1.1	0.83	1.288	101.5	0.688	3.077	331.7	548.1	0.959	5.196	-1.88	0.262	73.0	185.5	-2.4	0.220
4-2170	4-3370	0.390	357.0	1.3	0.74	1.289	102.0	0.691	3.088	330.5	548.7	0.955	5.221	-1.80	0.263	71.7	185.8	-2.3	0.223
4-2170	4-3390	0.397	358.4	1.5	0.65	1.289	102.5	0.693	3.099	329.3	549.3	0.950	5.248	-1.74	0.264	70.5	186.2	-2.3	0.226
4-2170	4-3410	0.404	359.6	1.8	0.58	1.290	103.0	0.696	3.110	328.2	549.8	0.946	5.275	-1.68	0.265	69.3	186.7	-2.2	0.229
4-2170	4-3430	0.411	0.9	2.1	0.50	1.290	103.5	0.699	3.122	327.0	550.4	0.941	5.303	-1.62	0.267	68.1	187.2	-2.1	0.232

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2170	4-3450	0.418	2.2	2.4	0.43	1.290	104.0	0.701	3.134	325.7	550.9	0.936	5.332	-1.57	0.268	67.0	187.8	-2.1	0.235
4-2170	4-3470	0.426	3.4	2.7	0.37	1.291	104.6	0.704	3.146	324.5	551.3	0.931	5.362	-1.53	0.269	65.9	188.4	-2.0	0.238
4-2170	4-3490	0.434	4.6	3.0	0.31	1.291	105.1	0.707	3.159	323.3	551.8	0.925	5.393	-1.49	0.271	64.9	189.1	-2.0	0.241
4-2170	4-3510	0.442	5.8	3.3	0.25	1.292	105.7	0.710	3.172	322.0	552.2	0.919	5.424	-1.45	0.272	63.8	189.9	-2.0	0.244
4-2170	4-3530	0.451	7.0	3.6	0.20	1.292	106.2	0.713	3.185	320.7	552.6	0.913	5.456	-1.42	0.273	62.8	190.7	-2.0	0.247
4-2170	4-3550	0.459	8.1	3.9	0.14	1.293	106.8	0.716	3.198	319.4	553.0	0.907	5.489	-1.39	0.275	61.8	191.5	-2.0	0.251
4-2170	4-3570	0.468	9.3	4.3	0.09	1.293	107.4	0.720	3.211	318.1	553.4	0.900	5.522	-1.36	0.276	60.9	192.4	-2.0	0.254
4-2170	4-3590	0.478	10.4	4.6	0.05	1.294	108.0	0.723	3.225	316.8	553.8	0.893	5.556	-1.33	0.277	59.9	193.3	-2.0	0.257
4-2170	4-3610	0.487	11.5	4.9	0.00	1.294	108.6	0.726	3.238	315.5	554.1	0.886	5.591	-1.31	0.279	59.0	194.3	-2.0	0.260
4-2170	4-3630	0.497	12.6	5.3	-0.04	1.295	109.2	0.730	3.252	314.1	554.5	0.879	5.626	-1.28	0.280	58.1	195.3	-2.0	0.263
4-2170	4-3650	0.507	13.6	5.6	-0.09	1.295	109.8	0.733	3.266	312.8	554.8	0.871	5.661	-1.26	0.282	57.3	196.3	-2.0	0.267
4-2170	4-3670	0.517	14.7	6.0	-0.13	1.296	110.4	0.737	3.280	311.4	555.1	0.863	5.698	-1.24	0.283	56.4	197.3	-2.0	0.270
4-2170	4-3690	0.527	15.7	6.3	-0.17	1.296	111.0	0.741	3.295	310.0	555.4	0.855	5.734	-1.23	0.284	55.5	198.4	-2.0	0.273
4-2170	4-3710	0.537	16.7	6.6	-0.20	1.297	111.7	0.744	3.309	308.6	555.6	0.846	5.771	-1.21	0.286	54.7	199.5	-2.0	0.276
4-2170	4-3730	0.548	17.7	7.0	-0.24	1.297	112.3	0.748	3.323	307.2	555.9	0.837	5.809	-1.20	0.287	53.9	200.7	-2.1	0.280
4-2170	4-3750	0.559	18.7	7.3	-0.28	1.298	113.0	0.752	3.338	305.8	556.1	0.828	5.847	-1.18	0.288	53.1	201.8	-2.1	0.283
4-2170	4-3770	0.570	19.7	7.6	-0.31	1.298	113.6	0.756	3.352	304.4	556.3	0.819	5.885	-1.17	0.290	52.3	203.0	-2.1	0.286
4-2180	4-2460	0.639	351.0	-8.1	-1.58	1.581	100.3	1.513-1.919		343.0	469.4	0.984	---	1.22	0.961	160.8	212.2	-1.2	0.925
4-2180	4-2480	0.585	349.6	-9.1	-1.63	1.534	99.0	1.370-2.672		344.4	472.6	0.989	---	1.25	0.882	159.5	212.6	-1.2	0.845
4-2180	4-2500	0.539	348.0	-10.2	-1.69	1.495	97.9	1.254-3.903		345.8	475.9	0.993	---	1.29	0.812	158.2	213.0	-1.2	0.775
4-2180	4-2520	0.501	346.4	-11.3	-1.74	1.463	96.8	1.160-6.233		347.3	479.2	0.997	---	1.32	0.751	156.8	213.3	-1.1	0.713
4-2180	4-2540	0.468	344.7	-12.5	-1.80	1.436	95.9	1.08212.211		348.7	482.4	1.000	---	1.36	0.697	155.3	213.5	-1.1	0.658
4-2180	4-2560	0.441	343.1	-13.6	-1.86	1.413	95.0	1.01758.861		350.0	485.6	1.003	---	1.41	0.649	153.7	213.7	-1.0	0.609
4-2180	4-2580	0.419	341.5	-14.8	-1.93	1.394	94.3	0.96327.039		351.3	488.7	1.005	---	1.46	0.606	152.1	213.8	-1.0	0.566
4-2180	4-2600	0.400	340.0	-15.9	-2.00	1.377	93.6	0.91712.163		352.5	491.7	1.006	---	1.51	0.567	150.4	213.9	-0.9	0.526
4-2180	4-2620	0.384	338.5	-17.0	-2.08	1.364	93.0	0.879	8.314	353.6	494.7	1.007	---	1.57	0.533	148.6	213.9	-0.8	0.490
4-2180	4-2640	0.370	337.2	-18.0	-2.16	1.352	92.5	0.846	6.559	354.6	497.5	1.008	---	1.63	0.502	146.7	213.8	-0.7	0.458
4-2180	4-2660	0.359	336.0	-19.1	-2.25	1.342	92.0	0.819	5.562	355.5	500.3	1.009	---	1.71	0.473	144.7	213.6	-0.6	0.429
4-2180	4-2680	0.350	334.9	-20.0	-2.35	1.333	91.6	0.795	4.925	356.3	502.9	1.009	---	1.79	0.448	142.7	213.3	-0.5	0.402
4-2180	4-2700	0.342	334.0	-21.0	-2.46	1.325	91.3	0.775	4.486	357.0	505.4	1.010	---	1.88	0.425	140.5	212.9	-0.3	0.378
4-2180	4-2720	0.335	333.3	-21.9	-2.58	1.319	91.0	0.758	4.169	357.6	507.9	1.010	---	1.98	0.405	138.4	212.4	-0.1	0.356
4-2180	4-2740	0.330	332.8	-22.8	-2.71	1.313	90.8	0.743	3.930	358.1	510.2	1.010	---	2.10	0.386	136.1	211.8	0.1	0.336
4-2180	4-2760	0.325	332.5	-23.8	-2.87	1.309	90.6	0.730	3.746	358.5	512.4	1.010	---	2.24	0.370	133.8	211.1	0.3	0.318
4-2180	4-2780	0.322	332.3	-24.7	-3.04	1.305	90.5	0.720	3.602	358.8	514.5	1.010	---	2.40	0.355	131.5	210.3	0.6	0.301
4-2180	4-2800	0.319	332.4	-25.6	-3.24	1.301	90.4	0.710	3.487	359.0	516.5	1.010	---	2.58	0.341	129.1	209.4	0.9	0.286
4-2180	4-2820	0.317	332.6	-26.7	-3.47	1.298	90.4	0.702	3.393	359.1	518.5	1.010	---	2.80	0.329	126.6	208.4	1.3	0.273
4-2180	4-2840	0.315	333.1	-27.8	-3.75	1.295	90.4	0.695	3.318	359.1	520.3	1.010	---	3.06	0.319	124.2	207.3	1.7	0.261
4-2180	4-2860	0.315	333.9	-29.1	-4.08	1.293	90.4	0.690	3.256	359.1	522.1	1.010	---	3.37	0.309	121.7	206.1	2.2	0.251
4-2180	4-2880	0.315	334.9	-30.5	-4.49	1.291	90.4	0.685	3.204	358.9	523.8	1.010	---	3.76	0.301	119.2	204.9	2.8	0.241
4-2180	4-2900	0.317	336.2	-32.3	-5.01	1.290	90.5	0.681	3.163	358.7	525.4	1.010	---	4.27	0.294	116.7	203.6	3.6	0.233
4-2180	4-2920	0.320	338.0	-34.6	-5.68	1.288	90.6	0.677	3.128	358.4	526.9	1.010	---	4.92	0.287	114.3	202.2	4.5	0.226
4-2180	4-2940	0.326	340.5	-37.5	-6.60	1.287	90.8	0.674	3.100	358.1	528.3	1.010	---	5.83	0.281	111.8	200.9	5.8	0.221
4-2180	4-2960	0.337	344.1	-41.6	-7.93	1.286	90.9	0.672	3.077	357.7	529.7	1.010	---	7.14	0.277	109.4	199.5	7.6	0.217
4-2180	4-2980	0.357	349.7	-47.3	-10.03	1.286	91.1	0.670	3.058	357.2	531.1	1.010	---	9.22	0.273	107.1	198.2	10.2	0.216
4-2180	4-3000	0.403	0.9	-55.7	-13.82	1.285	91.3	0.668	3.044	356.7	532.4	1.010	---	13.00	0.269	104.8	196.8	14.6	0.219
4-2180	4-3020	0.533	32.7	-66.1	-22.60	1.284	91.5	0.667	3.032	356.2	533.6	1.009	---	21.77	0.266	102.5	195.4	22.9	0.240
4-2180	4-3040	1.112	106.9	-53.9	-56.73	1.284	91.6	0.666	3.024	356.0	534.8	1.009	---	55.88	0.264	100.2	192.3	33.9	0.379
4-2180	4-3060	0.831	276.6	70.3	40.22	1.284	92.3	0.666	3.018	354.3	535.8	1.008	---	-41.09	0.262	98.2	189.1	-33.6	0.312
4-2180	4-3080	0.460	312.8	44.4	17.75	1.284	92.5	0.666	3.014	353.8	536.9	1.008	---	-18.63	0.260	96.1	190.1	-22.0	0.226
4-2180	4-3100	0.370	322.2	28.8	10.92	1.284	92.7	0.666	3.012	353.1	538.0	1.007	---	-11.82	0.259	94.0	189.7	-15.2	0.209
4-2180	4-3120	0.339	327.4	19.5	7.72	1.284	93.0	0.666	3.012	352.4	539.0	1.007	---	-8.63	0.258	92.1	189.0	-11.5	0.203
4-2180	4-3140	0.326	331.1	13.6	5.88	1.284	93.4	0.666	3.013	351.6	539.9	1.006	---	-6.80	0.258	90.2	188.3	-9.2	0.201
4-2180	4-3160	0.320	334.0	9.7	4.68	1.284	93.7	0.667	3.016	350.7	540.8	1.005	5.027	-5.62	0.258	88.4	187.7	-7.7	0.200
4-2180	4-3180	0.318	336.5	7.0	3.83	1.284	94.1	0.668	3.020	349.8	541.7	1.004	5.036	-4.79	0.258	86.6	187.1	-6.5	0.200
4-2180	4-3200	0.318	338.8	5.1	3.20	1.284	94.5	0.668	3.025	348.9	542.5	1.003	5.047	-4.18	0.258	84.9	186.6	-5.7	0.201
4-2180	4-3220	0.319	340.9	3.8	2.72	1.284	94.8	0.670	3.031	347.9	543.3	1.001	5.060	-3.71	0.258	83.3	186.3	-5.0	0.202
4-2180	4-3240	0.321	342.9	2.8	2.33	1.285	95.2	0.671	3.037	346.9	544.1	1.000	5.075	-3.34	0.259	81.7	186.0	-4.5	0.204
4-2180	4-3260	0.323	344.8	2.2	2.02	1.285	95.7	0.672	3.045	345.9	544.9	0.998	5.092	-3.04	0.259	80.2	185.8	-4.1	0.205
4-2180	4-3280	0.327	346.7	1.8	1.75	1.285	96.1	0.674	3.053	344.9	545.6	0.996	5.110	-2.79	0.260	78.8	185.7	-3.7	0.207
4-2180	4-3300	0.330	348.4	1.5	1.53	1.286	96.5	0.675	3.062	343.8	546.3	0.994	5.130	-2.58	0.261	77.3	185.7	-3.4	0.210
4-2180	4-3320	0.334	350.2	1.3	1.34	1.286	97.0	0.677	3.072	342.7	546.9	0.992	5.151	-2.41	0.262	76.0	185.8	-3.2	0.212
4-2180	4-3340	0.338	351.9	1.3	1.17	1.287	97.4	0.679	3.082	341.6	547.6	0.990	5.174	-2.25	0.263	74.7	186.0	-3.0	0.214
4-2180	4-3360	0.343	353.6	1.4	1.02	1.287	97.9	0.681	3.092	340.5	548.2	0.987	5.197	-2.12	0.264	73.4	186.3	-2.8	0.217
4-2180	4-3380	0.348	355.2	1.5	0.89	1.287	98.3	0.683	3.103	339.4	548.8	0.984	5.222	-2.01	0.265	72.2	186.6	-2.7	0.219
4-2180	4-3400	0.353	356.8	1.7	0.78	1.288	98.8	0.685	3.114	338.2	549.4	0.981	5.247	-1.91	0.267	71.0	187.0	-2.5	0.222
4-2180	4-3420	0.359	358.4	1.9	0.67	1.288	99.3	0.687	3.126	337.0	549.9	0.978	5.274	-1.82	0.268	69.9	187.5	-2.4	0.225
4-2180	4-3440	0.365	359.9	2.1	0.57	1.289	99.8	0.690	3.138	335.9	550.4	0.974	5.301	-1.74	0.269	68.8	188.0	-2.3	0.228
4-2180	4-3460	0.371	1.4	2.4	0.49	1.289	100.3	0.692	3.150	334.6	550.9	0.971	5.330	-1.67	0.270	67.7	188.6	-2.3	0.230
4-2180	4-3480	0.377	2.9	2.7	0.41	1.290	100.8	0.694	3.163	333.4	551.4	0.967	5.359	-1.60	0.272	66.7	189.2	-2.2	0.233
4-2180	4-3500	0.384	4.4	3.1	0.33	1.290	101.4	0.697	3.175	332.2	551.9	0.962	5.388	-1.54	0.273	65.7	189.9	-2.2	0.236
4-2180	4-3520	0.391	5.8	3.4	0.26	1.291	101.9	0.700	3.188	330.9	552.3	0.958	5.419	-1.49	0.274	64.7	190.7	-2.1	0.239
4-2180	4-3540	0.398	7.2	3.8	0.20	1.291	102.5	0.702	3.202	329.7	552.8	0.953	5.450	-1.44	0.276	63.8	191.4	-2.1	0.242
4-2180	4-3560	0.408	8.6	4.2	0.14	1.292	103.0	0.705	3.215	328.4	553.2	0.948	5.481	-1.40	0.277	62.8	192.3	-2.1	0.245
4-2180	4-3580	0.413	9.9	4.5	0.08	1.292	103.6	0.708	3.228	327.1	553.6	0.943	5.514	-1.36	0.279	61.9	193.1	-2.0	0.248
4-2180	4-3600	0.421	11.2	4.9	0.03	1.293	104.1	0.711	3.242	325.8	554.0	0.938	5.547	-1.32	0.280	61.1	194.0	-2.0	0.251
4-2180	4-3620	0.430	12.5	5.3	-0.02	1.293	104.7	0.714	3.256	324.5	554.3	0.932	5.580	-1.29	0.281	60.2	195.0	-2.0	0.254
4-2180	4-3640	0.438	13.8	5.7	-0.07	1.294	105.3	0.717	3.270	323.2	554.7	0.926	5.614	-1.26	0.283	59.4	196.0	-2.0	0.257
4-2180	4-3660	0.447	15.0	6.1	-0.12	1.294	105.9	0.720	3.284	321.8	555.0	0.920	5.648	-1.23	0.284	58.5	197.0	-2.0	0.260
4-2180	4-3680	0.456	16.3	6.4	-0.16	1.295	106.5	0.723	3.298	320.5	555.3	0.913	5.683	-1.21	0.285	57.7	198.0	-2.1	0.263
4-2180	4-3700	0.465	17.5	6.8	-0.20	1.295	107.1	0.726	3.313	319.1	555.6	0.907	5.719	-1.18	0.287	56.9	199.1	-2.1	0.266

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2180	4-3720	0.474	18.7	7.2	-0.24	1.296	107.7	0.730	3.327	317.8	555.9	0.900	5.754	-1.16	0.288	56.2	200.2	-2.1	0.269
4-2180	4-3740	0.484	19.8	7.6	-0.28	1.296	108.3	0.733	3.342	316.4	556.2	0.892	5.791	-1.14	0.289	55.4	201.3	-2.1	0.271
4-2180	4-3760	0.494	20.9	8.0	-0.32	1.297	108.9	0.736	3.356	315.0	556.5	0.885	5.827	-1.12	0.291	54.6	202.4	-2.1	0.274
4-2180	4-3780	0.504	22.1	8.3	-0.36	1.297	109.5	0.740	3.371	313.6	556.7	0.877	5.864	-1.11	0.292	53.9	203.6	-2.2	0.277
4-2190	4-2470	0.593	347.5	-9.5	-1.44	1.568	94.9	1.485-2.076		351.8	469.5	1.006	---	0.94	0.941	160.2	213.0	-1.3	0.902
4-2190	4-2490	0.544	345.6	-10.7	-1.48	1.522	93.8	1.344-2.929		353.4	472.9	1.009	---	0.95	0.863	158.9	213.3	-1.3	0.824
4-2190	4-2510	0.503	343.5	-11.9	-1.51	1.485	92.8	1.231-4.373		354.9	476.3	1.010	---	0.97	0.795	157.6	213.6	-1.3	0.756
4-2190	4-2530	0.470	341.4	-13.1	-1.55	1.453	91.9	1.139-7.298		356.5	479.7	1.011	---	0.99	0.735	156.2	213.9	-1.3	0.696
4-2190	4-2550	0.442	339.3	-14.3	-1.59	1.427	91.0	1.06316.164		358.0	483.0	1.012	---	1.01	0.682	154.7	214.1	-1.3	0.642
4-2190	4-2570	0.420	337.2	-15.4	-1.63	1.406	90.3	1.00011.448		359.4	486.2	1.013	---	1.04	0.635	153.1	214.2	-1.2	0.595
4-2190	4-2590	0.401	335.2	-16.5	-1.67	1.387	89.6	0.94819.300		0.8	129.4	---	---	1.06	0.593	151.5	214.3	-1.2	0.552
4-2190	4-2610	0.385	333.3	-17.6	-1.72	1.371	89.0	0.90410.519		2.0	132.5	---	---	1.09	0.556	149.7	214.3	-1.1	0.513
4-2190	4-2630	0.372	331.5	-18.6	-1.76	1.358	88.5	0.867 7.607		3.2	135.5	---	---	1.12	0.522	147.9	214.2	-1.1	0.479
4-2190	4-2650	0.362	329.9	-19.5	-1.81	1.347	88.1	0.836 6.165		4.2	138.4	---	---	1.15	0.492	146.0	214.0	-1.0	0.447
4-2190	4-2670	0.353	328.5	-20.3	-1.87	1.337	87.7	0.810 5.311		5.1	141.2	---	---	1.19	0.464	144.0	213.7	-0.9	0.419
4-2190	4-2690	0.345	327.2	-21.1	-1.92	1.329	87.4	0.787 4.751		6.0	143.8	---	---	1.23	0.440	141.9	213.4	-0.8	0.393
4-2190	4-2710	0.339	326.2	-21.8	-1.98	1.321	87.1	0.768 4.359		6.7	146.3	---	---	1.28	0.418	139.8	212.9	-0.7	0.369
4-2190	4-2730	0.334	325.3	-22.4	-2.05	1.315	86.9	0.752 4.072		7.3	148.8	---	---	1.33	0.398	137.6	212.4	-0.6	0.348
4-2190	4-2750	0.329	324.6	-23.0	-2.12	1.310	86.7	0.738 3.854		7.7	151.1	---	---	1.39	0.380	135.3	211.7	-0.5	0.329
4-2190	4-2770	0.325	324.2	-23.6	-2.20	1.305	86.6	0.726 3.686		8.1	153.3	---	---	1.45	0.364	132.9	211.0	-0.3	0.311
4-2190	4-2790	0.322	323.9	-24.1	-2.28	1.302	86.5	0.716 3.553		8.4	155.3	---	---	1.52	0.349	130.6	210.1	-0.2	0.295
4-2190	4-2810	0.319	323.7	-24.6	-2.38	1.298	86.5	0.708 3.447		8.5	157.3	---	---	1.60	0.336	128.2	209.2	0.0	0.281
4-2190	4-2830	0.317	323.8	-25.1	-2.48	1.295	86.5	0.700 3.361		8.6	159.2	---	---	1.69	0.325	125.7	208.1	0.2	0.268
4-2190	4-2850	0.315	324.0	-25.6	-2.60	1.293	86.5	0.694 3.291		8.6	161.0	---	---	1.79	0.315	123.2	207.0	0.4	0.257
4-2190	4-2870	0.313	324.4	-26.1	-2.73	1.291	86.5	0.688 3.233		8.5	162.8	---	---	1.91	0.306	120.8	205.8	0.7	0.246
4-2190	4-2890	0.311	325.0	-26.7	-2.88	1.289	86.6	0.684 3.186		8.3	164.4	---	---	2.05	0.298	118.3	204.5	1.0	0.237
4-2190	4-2910	0.310	325.7	-27.2	-3.05	1.288	86.7	0.680 3.148		8.0	166.0	---	---	2.20	0.291	115.8	203.2	1.3	0.229
4-2190	4-2930	0.309	326.6	-27.9	-3.25	1.286	86.9	0.676 3.116		7.7	167.5	---	---	2.39	0.285	113.4	201.8	1.7	0.223
4-2190	4-2950	0.309	327.7	-28.7	-3.49	1.285	87.0	0.673 3.090		7.3	168.9	---	---	2.62	0.279	110.9	200.5	2.1	0.217
4-2190	4-2970	0.309	329.0	-29.6	-3.78	1.284	87.2	0.671 3.069		6.9	170.2	---	---	2.89	0.275	108.6	199.1	2.6	0.212
4-2190	4-2990	0.309	330.5	-30.7	-4.14	1.284	87.4	0.669 3.053		6.4	171.5	---	---	3.24	0.271	106.2	197.8	3.1	0.208
4-2190	4-3010	0.311	332.3	-32.1	-4.59	1.283	87.7	0.668 3.040		5.8	172.8	---	---	3.68	0.268	103.9	196.5	3.8	0.205
4-2190	4-3030	0.313	334.4	-33.9	-5.18	1.283	87.9	0.666 3.030		5.2	174.0	---	---	4.26	0.265	101.7	195.2	4.7	0.202
4-2190	4-3050	0.318	337.1	-36.5	-6.00	1.282	88.2	0.666 3.023		4.6	175.1	---	---	5.06	0.263	99.5	194.0	5.8	0.201
4-2190	4-3070	0.327	340.7	-40.1	-7.19	1.282	88.5	0.665 3.018		3.9	176.2	---	---	6.23	0.262	97.4	193.0	7.4	0.201
4-2190	4-3090	0.344	346.1	-45.5	-9.09	1.282	88.7	0.664 3.016		3.1	177.3	---	---	8.12	0.260	95.4	192.0	9.8	0.202
4-2190	4-3110	0.385	356.2	-54.2	-12.62	1.282	89.1	0.664 3.015		2.4	178.3	---	---	11.64	0.259	93.4	191.3	14.0	0.208
4-2190	4-3130	0.510	26.7	-66.9	-21.32	1.282	89.4	0.664 3.016		1.6	179.2	---	---	20.33	0.259	91.5	191.1	22.4	0.230
4-2190	4-3150	1.200	118.4	-53.5	-62.26	1.282	89.6	0.665 3.018		1.1	180.2	---	5.023	61.25	0.258	89.6	192.9	33.9	0.400
4-2190	4-3170	0.670	289.3	61.7	31.01	1.282	90.2	0.665 3.021		359.5	541.0	1.012	5.030	-32.03	0.258	87.9	187.7	-30.6	0.272
4-2190	4-3190	0.403	316.9	36.8	13.94	1.283	90.5	0.665	3.026	358.7	541.9	1.012	5.040	-14.97	0.258	86.2	187.1	-18.3	0.217
4-2190	4-3210	0.342	325.6	22.8	8.62	1.283	90.9	0.666	3.032	357.8	542.7	1.012	5.051	-9.66	0.259	84.6	186.8	-12.5	0.207
4-2190	4-3230	0.321	330.7	14.8	6.07	1.283	91.3	0.667	3.038	356.8	543.5	1.012	5.065	-7.13	0.259	83.0	186.5	-9.3	0.205
4-2190	4-3250	0.312	334.4	10.0	4.58	1.283	91.7	0.668	3.046	355.8	544.3	1.011	5.080	-5.65	0.260	81.5	186.3	-7.5	0.205
4-2190	4-3270	0.309	337.5	6.9	3.60	1.284	92.1	0.669	3.054	354.8	545.0	1.011	5.097	-4.69	0.261	80.1	186.2	-6.2	0.206
4-2190	4-3290	0.308	340.1	4.8	2.91	1.284	92.5	0.670	3.063	353.8	545.7	1.010	5.115	-4.01	0.262	78.7	186.2	-5.3	0.207
4-2190	4-3310	0.309	342.6	3.4	2.39	1.285	92.9	0.672	3.072	352.7	546.4	1.009	5.135	-3.50	0.263	77.3	186.2	-4.6	0.209
4-2190	4-3330	0.310	344.9	2.5	1.99	1.285	93.4	0.673	3.082	351.6	547.1	1.008	5.156	-3.11	0.264	76.0	186.4	-4.1	0.211
4-2190	4-3350	0.312	347.0	1.9	1.67	1.285	93.8	0.674	3.092	350.5	547.7	1.007	5.178	-2.81	0.265	74.8	186.6	-3.7	0.213
4-2190	4-3370	0.315	349.1	1.6	1.41	1.286	94.3	0.676	3.103	349.4	548.3	1.005	5.201	-2.56	0.266	73.6	186.8	-3.4	0.215
4-2190	4-3390	0.318	351.1	1.4	1.19	1.286	94.7	0.678	3.115	348.3	548.9	1.004	5.225	-2.35	0.267	72.4	187.2	-3.1	0.217
4-2190	4-3410	0.321	353.1	1.4	1.01	1.287	95.2	0.679	3.126	347.1	549.5	1.002	5.251	-2.18	0.268	71.3	187.6	-2.9	0.220
4-2190	4-3430	0.325	355.0	1.5	0.84	1.287	95.7	0.681	3.138	345.9	550.0	1.000	5.277	-2.03	0.270	70.2	188.1	-2.8	0.222
4-2190	4-3450	0.329	356.9	1.6	0.70	1.288	96.2	0.683	3.151	344.7	550.5	0.998	5.303	-1.90	0.271	69.2	188.6	-2.6	0.225
4-2190	4-3470	0.333	358.7	1.9	0.58	1.288	96.7	0.685	3.163	343.5	551.1	0.996	5.331	-1.79	0.272	68.1	189.2	-2.5	0.228
4-2190	4-3490	0.338	0.5	2.2	0.47	1.289	97.2	0.687	3.176	342.3	551.5	0.993	5.359	-1.70	0.274	67.2	189.9	-2.4	0.230
4-2190	4-3510	0.343	2.3	2.5	0.37	1.289	97.7	0.690	3.189	341.1	552.0	0.990	5.388	-1.61	0.275	66.2	190.6	-2.3	0.233
4-2190	4-3530	0.349	4.0	2.9	0.29	1.290	98.2	0.692	3.203	339.8	552.5	0.987	5.418	-1.54	0.276	65.3	191.3	-2.2	0.235
4-2190	4-3550	0.355	5.6	3.2	0.20	1.290	98.7	0.694	3.216	338.6	552.9	0.984	5.448	-1.47	0.278	64.4	192.1	-2.2	0.238
4-2190	4-3570	0.361	7.3	3.7	0.13	1.291	99.3	0.696	3.230	337.3	553.3	0.980	5.479	-1.41	0.279	63.5	193.0	-2.2	0.241
4-2190	4-3590	0.367	8.9	4.1	0.06	1.291	99.8	0.699	3.243	336.0	553.7	0.977	5.510	-1.35	0.281	62.7	193.8	-2.1	0.243
4-2190	4-3610	0.373	10.5	4.5	0.00	1.292	100.4	0.701	3.257	334.8	554.1	0.973	5.542	-1.31	0.282	61.8	194.7	-2.1	0.246
4-2190	4-3630	0.380	12.0	5.0	-0.06	1.292	100.9	0.704	3.271	333.5	554.5	0.968	5.575	-1.26	0.283	61.0	195.7	-2.1	0.249
4-2190	4-3650	0.387	13.5	5.4	-0.11	1.293	101.5	0.707	3.286	332.1	554.9	0.964	5.607	-1.22	0.285	60.2	196.6	-2.1	0.252
4-2190	4-3670	0.395	15.0	5.8	-0.16	1.293	102.1	0.709	3.300	330.8	555.2	0.959	5.641	-1.18	0.286	59.5	197.6	-2.1	0.254
4-2190	4-3690	0.402	16.5	6.3	-0.21	1.294	102.6	0.712	3.314	329.5	555.5	0.954	5.675	-1.15	0.287	58.7	198.7	-2.1	0.257
4-2190	4-3710	0.410	17.9	6.7	-0.26	1.294	103.2	0.715	3.329	328.2	555.9	0.949	5.709	-1.12	0.289	58.0	199.7	-2.1	0.260
4-2190	4-3730	0.418	19.3	7.2	-0.30	1.295	103.8	0.718	3.343	326.8	556.2	0.943	5.743	-1.09	0.290	57.2	200.8	-2.1	0.262
4-2190	4-3750	0.427	20.6	7.6	-0.34	1.295	104.4	0.721	3.358	325.5	556.5	0.938	5.778	-1.07	0.291	56.5	201.9	-2.1	0.265
4-2190	4-3770	0.435	22.0	8.1	-0.38	1.296	105.0	0.724	3.373	324.1	556.7	0.932	5.814	-1.04	0.293	55.8	203.0	-2.1	0.268
4-2190	4-3790	0.444	23.3	8.5	-0.41	1.296	105.6	0.727	3.388	322.7	557.0	0.925	5.850	-1.02	0.294	55.1	204.2	-2.2	0.271
4-2200	4-2460	0.621	344.5	-10.3	-1.33	1.606	90.3	1.614-1.651		359.6	466.8	1.014	---	0.68	1.004	160.9	213.2	-1.5	0.964
4-2200	4-2480	0.567	342.2	-11.6	-1.36	1.552	89.3	1.444-2.284		1.3	110.3	---	---	0.69	0.917	159.7	213.5	-1.4	0.877
4-2200	4-2500	0.524	339.7	-12.9	-1.38	1.509	88.3	1.309-3.284		3.0	113.8	---	---	0.69	0.841	158.5	213.8	-1.4	0.802
4-2200	4-2520	0.490	337.1	-14.1	-1.40	1.473	87.5	1.200-5.066		4.6	117.3	---	---	0.70	0.775	157.1	214.1	-1.4	0.736
4-2200	4-2540	0.462	334.6	-15.3	-1.43	1.443	86.7	1.112-9.064		6.3	120.8	---	---	0.71	0.717	155.7	214.3	-1.4	0.677
4-2200	4-2560	0.439	332.2	-16.4	-1.45	1.418	86.0	1.03925.697		7.9	124.2	---	---	0.72	0.665	154.2	214.4	-1.4	0.625
4-2200	4-2580	0.421	329.9	-17.5	-1.48	1.397	85.4	0.98049.935		9.4	127.6	---	---	0.74	0.620	152.6	214.4	-1.4	0.579
4-2200	4-2600	0.406	327.7	-18.5	-1.51	1.380	84.8	0.93114.468		10.8	130.8	---	---	0.75	0.579	150.9	214.4	-1.3	0.538
4-2200	4-2620	0.394	325.6	-19.4	-1.54	1.365	84.3	0.889 9.075		12.1	133.9	---	---	0.76	0.542	149.1	214.3	-1.3	0.500

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2200	4-264C	0.384	323.8	-20.2	-1.56	1.352	83.9	0.855	6.909	13.3	136.9	---	---	0.78	0.509	147.3	214.2	-1.3	0.466
4-2200	4-266C	0.376	322.2	-20.9	-1.60	1.341	83.5	0.826	5.750	14.3	139.8	---	---	0.80	0.480	145.3	213.9	-1.2	0.436
4-2200	4-268C	0.369	320.8	-21.5	-1.63	1.332	83.2	0.802	5.035	15.3	142.6	---	---	0.82	0.453	143.3	213.6	-1.2	0.408
4-2200	4-270C	0.363	319.6	-22.0	-1.66	1.324	83.0	0.781	4.553	16.1	145.2	---	---	0.84	0.429	141.2	213.1	-1.1	0.383
4-2200	4-272C	0.359	318.5	-22.5	-1.70	1.317	82.8	0.764	4.210	16.7	147.7	---	---	0.86	0.408	139.0	212.6	-1.0	0.361
4-2200	4-274C	0.354	317.7	-22.9	-1.73	1.311	82.6	0.749	3.956	17.3	150.1	---	---	0.88	0.389	136.8	212.0	-0.9	0.340
4-2200	4-276C	0.351	317.1	-23.3	-1.77	1.306	82.5	0.736	3.762	17.7	152.4	---	---	0.91	0.371	134.4	211.2	-0.8	0.321
4-2200	4-278C	0.347	316.7	-23.6	-1.82	1.302	82.4	0.725	3.611	18.0	154.5	---	---	0.94	0.356	132.1	210.4	-0.7	0.305
4-2200	4-280C	0.344	316.4	-23.9	-1.86	1.298	82.4	0.716	3.491	18.2	156.6	---	---	0.98	0.342	129.7	209.5	-0.6	0.289
4-2200	4-282C	0.341	316.3	-24.2	-1.91	1.295	82.4	0.708	3.394	18.4	158.5	---	---	1.01	0.330	127.2	208.5	-0.5	0.276
4-2200	4-284C	0.339	316.3	-24.4	-1.96	1.293	82.4	0.701	3.316	18.4	160.3	---	---	1.05	0.319	124.7	207.4	-0.4	0.264
4-2200	4-286C	0.336	316.5	-24.7	-2.02	1.290	82.5	0.695	3.253	18.3	162.1	---	---	1.10	0.309	122.2	206.2	-0.2	0.253
4-2200	4-288C	0.334	316.8	-24.9	-2.08	1.288	82.6	0.690	3.201	18.1	163.8	---	---	1.15	0.300	119.7	205.0	-0.1	0.243
4-2200	4-290C	0.331	317.3	-25.1	-2.15	1.287	82.7	0.685	3.159	17.9	165.3	---	---	1.20	0.293	117.2	203.7	0.1	0.234
4-2200	4-292C	0.329	317.9	-25.3	-2.22	1.285	82.9	0.682	3.124	17.6	166.8	---	---	1.27	0.286	114.8	202.4	0.3	0.227
4-2200	4-294C	0.327	318.6	-25.5	-2.31	1.284	83.0	0.678	3.096	17.2	168.3	---	---	1.34	0.281	112.3	201.0	0.5	0.220
4-2200	4-296C	0.325	319.4	-25.7	-2.40	1.283	83.2	0.676	3.073	16.8	169.7	---	---	1.42	0.276	109.9	199.6	0.7	0.215
4-2200	4-298C	0.323	320.4	-25.9	-2.50	1.283	83.5	0.673	3.055	16.3	171.0	---	---	1.52	0.272	107.5	198.3	0.9	0.210
4-2200	4-300C	0.321	321.4	-26.1	-2.62	1.282	83.7	0.671	3.040	15.7	172.2	---	---	1.63	0.268	105.2	197.0	1.1	0.206
4-2200	4-302C	0.319	322.6	-26.4	-2.76	1.281	83.9	0.670	3.029	15.1	173.4	---	---	1.75	0.266	102.9	195.7	1.4	0.203
4-2200	4-304C	0.318	323.9	-26.8	-2.92	1.281	84.2	0.669	3.021	14.5	174.6	---	---	1.90	0.263	100.7	194.5	1.7	0.201
4-2200	4-306C	0.317	325.4	-27.2	-3.12	1.281	84.5	0.668	3.016	13.8	175.7	---	---	2.09	0.261	98.6	193.3	2.0	0.199
4-2200	4-308C	0.316	327.0	-27.8	-3.35	1.281	84.8	0.667	3.013	13.0	176.7	---	---	2.31	0.260	96.5	192.3	2.4	0.198
4-2200	4-310C	0.315	328.7	-28.5	-3.64	1.281	85.1	0.666	3.012	12.3	177.7	---	---	2.59	0.259	94.5	191.3	2.8	0.197
4-2200	4-312C	0.315	330.7	-29.5	-4.00	1.281	85.4	0.666	3.012	11.4	178.7	---	---	2.94	0.258	92.6	190.4	3.3	0.197
4-2200	4-314C	0.318	333.0	-30.9	-4.48	1.281	85.8	0.666	3.014	10.6	179.6	---	---	3.41	0.258	90.7	189.7	4.0	0.197
4-2200	4-316C	0.319	335.6	-32.9	-5.15	1.281	86.1	0.666	3.017	9.7	180.5	---	5.026	4.07	0.258	88.9	189.0	4.8	0.198
4-2200	4-318C	0.324	338.9	-35.8	-6.12	1.281	86.5	0.666	3.022	8.8	181.4	---	5.034	5.03	0.258	87.2	188.5	6.1	0.199
4-2200	4-320C	0.336	343.6	-40.6	-7.70	1.281	86.9	0.666	3.027	7.9	182.2	---	5.045	6.60	0.258	85.6	188.2	8.0	0.202
4-2200	4-322C	0.365	351.5	-48.7	-10.70	1.282	87.2	0.667	3.034	6.9	183.0	---	5.057	9.59	0.259	84.0	188.1	11.5	0.207
4-2200	4-324C	0.468	14.5	-63.7	-18.46	1.282	87.6	0.667	3.041	6.0	183.8	---	5.071	17.34	0.260	82.5	188.9	19.4	0.225
4-2200	4-326C	1.245	127.3	-55.1	-65.05	1.282	87.9	0.668	3.050	5.3	184.6	---	5.087	63.92	0.260	81.0	195.7	33.2	0.413
4-2200	4-328C	0.540	301.7	52.3	23.12	1.283	88.5	0.669	3.058	3.7	185.3	---	5.104	-24.26	0.261	79.6	187.1	-25.5	0.249
4-2200	4-330C	0.360	323.2	27.9	10.34	1.283	88.9	0.670	3.068	2.7	185.9	---	5.122	-11.49	0.262	78.3	186.4	-14.0	0.217
4-2200	4-332C	0.322	330.8	16.0	6.33	1.283	89.3	0.671	3.078	1.6	186.6	---	5.142	-7.49	0.263	77.0	186.5	-9.4	0.212
4-2200	4-334C	0.310	335.5	9.7	4.39	1.284	89.8	0.672	3.089	0.5	187.3	---	5.163	-5.56	0.264	75.7	186.7	-7.1	0.212
4-2200	4-336C	0.305	339.1	6.0	3.24	1.284	90.2	0.673	3.100	359.4	547.9	1.014	5.185	-4.42	0.266	74.5	186.9	-5.7	0.214
4-2200	4-338C	0.304	342.0	3.8	2.48	1.285	90.7	0.674	3.111	358.3	548.5	1.014	5.208	-3.67	0.267	73.4	187.3	-4.8	0.215
4-2200	4-340C	0.304	344.7	2.4	1.95	1.285	91.1	0.675	3.123	357.2	549.1	1.014	5.232	-3.15	0.268	72.3	187.7	-4.1	0.217
4-2200	4-342C	0.304	347.2	1.6	1.54	1.286	91.6	0.677	3.135	356.0	549.6	1.013	5.257	-2.75	0.270	71.2	188.1	-3.6	0.219
4-2200	4-344C	0.306	349.6	1.1	1.23	1.286	92.1	0.678	3.148	354.8	550.2	1.012	5.283	-2.45	0.271	70.2	188.6	-3.3	0.222
4-2200	4-346C	0.307	351.8	0.9	0.98	1.287	92.6	0.680	3.160	353.6	550.7	1.012	5.309	-2.21	0.272	69.2	189.2	-3.0	0.224
4-2200	4-348C	0.310	354.0	0.9	0.78	1.287	93.1	0.682	3.173	352.4	551.2	1.011	5.336	-2.02	0.274	68.2	189.8	-2.8	0.226
4-2200	4-350C	0.313	356.1	1.0	0.60	1.288	93.6	0.683	3.187	351.2	551.7	1.009	5.364	-1.85	0.275	67.3	190.5	-2.6	0.229
4-2200	4-352C	0.316	358.2	1.2	0.46	1.288	94.1	0.685	3.200	350.0	552.2	1.008	5.393	-1.72	0.277	66.4	191.2	-2.5	0.231
4-2200	4-354C	0.319	0.2	1.5	0.33	1.289	94.6	0.687	3.214	348.7	552.6	1.006	5.422	-1.60	0.278	65.5	192.0	-2.4	0.233
4-2200	4-356C	0.323	2.2	1.9	0.22	1.289	95.1	0.689	3.228	347.5	553.0	1.004	5.451	-1.50	0.279	64.7	192.8	-2.3	0.236
4-2200	4-358C	0.327	4.1	2.3	0.13	1.290	95.6	0.691	3.242	346.2	553.5	1.002	5.481	-1.42	0.281	63.9	193.6	-2.2	0.238
4-2200	4-360C	0.331	6.0	2.8	0.04	1.290	96.2	0.693	3.256	345.0	553.9	1.000	5.512	-1.34	0.282	63.1	194.5	-2.2	0.241
4-2200	4-362C	0.336	7.9	3.3	-0.04	1.291	96.7	0.695	3.270	343.7	554.3	0.997	5.543	-1.27	0.284	62.3	195.4	-2.1	0.243
4-2200	4-364C	0.341	9.7	3.7	-0.11	1.291	97.2	0.697	3.284	342.4	554.7	0.995	5.574	-1.21	0.285	61.5	196.3	-2.1	0.246
4-2200	4-366C	0.347	11.5	4.3	-0.17	1.292	97.8	0.699	3.299	341.1	555.0	0.992	5.606	-1.16	0.286	60.8	197.3	-2.1	0.248
4-2200	4-368C	0.352	13.3	4.8	-0.23	1.292	98.3	0.702	3.314	339.8	555.4	0.988	5.639	-1.11	0.288	60.1	198.3	-2.1	0.251
4-2200	4-370C	0.358	15.0	5.3	-0.28	1.293	98.9	0.704	3.328	338.5	555.7	0.985	5.672	-1.07	0.289	59.4	199.3	-2.1	0.253
4-2200	4-372C	0.365	16.7	5.8	-0.33	1.293	99.4	0.707	3.343	337.1	556.1	0.981	5.705	-1.03	0.290	58.7	200.4	-2.1	0.256
4-2200	4-374C	0.371	18.3	6.4	-0.38	1.294	100.0	0.709	3.358	335.8	556.4	0.977	5.738	-1.00	0.292	58.0	201.4	-2.1	0.258
4-2200	4-376C	0.378	19.9	6.9	-0.42	1.295	100.6	0.712	3.373	334.5	556.7	0.973	5.772	-0.97	0.293	57.3	202.5	-2.1	0.261
4-2200	4-378C	0.385	21.5	7.4	-0.46	1.295	101.2	0.714	3.388	333.1	557.0	0.968	5.807	-0.94	0.295	56.7	203.6	-2.1	0.263
4-2200	4-380C	0.393	23.1	7.9	-0.50	1.296	101.7	0.717	3.402	331.8	557.3	0.964	5.841	-0.91	0.296	56.0	204.8	-2.1	0.265
4-2210	4-247C	0.615	338.4	-12.7	-1.29	1.587	84.2	1.553-1.822		9.5	108.1	---	---	0.46	0.976	160.7	213.6	-1.5	0.936
4-2210	4-249C	0.568	335.6	-13.9	-1.31	1.536	83.4	1.392-2.562		11.4	111.7	---	---	0.46	0.891	159.5	213.8	-1.5	0.852
4-2210	4-251C	0.532	332.8	-15.2	-1.32	1.495	82.6	1.264-3.782		13.2	115.4	---	---	0.46	0.817	158.2	214.0	-1.5	0.779
4-2210	4-253C	0.503	330.0	-16.3	-1.34	1.460	81.9	1.163-6.130		15.1	119.1	---	---	0.47	0.753	156.8	214.2	-1.5	0.715
4-2210	4-255C	0.480	327.4	-17.4	-1.35	1.432	81.3	1.08012.367		16.8	122.7	---	---	0.47	0.696	155.4	214.3	-1.5	0.658
4-2210	4-257C	0.462	324.9	-18.3	-1.37	1.408	80.7	1.01374.525		18.5	126.2	---	---	0.47	0.646	153.8	214.4	-1.5	0.608
4-2210	4-259C	0.448	322.7	-19.2	-1.38	1.388	80.2	0.95823.668		20.0	129.6	---	---	0.48	0.601	152.2	214.3	-1.5	0.563
4-2210	4-261C	0.436	320.6	-20.0	-1.40	1.372	79.8	0.91311.289		21.5	132.8	---	---	0.48	0.562	150.5	214.2	-1.5	0.523
4-2210	4-263C	0.427	318.7	-20.6	-1.42	1.357	79.4	0.875 7.854		22.8	136.0	---	---	0.49	0.526	148.7	214.1	-1.4	0.487
4-2210	4-265C	0.419	317.1	-21.2	-1.44	1.345	79.1	0.844 6.255		24.0	139.0	---	---	0.50	0.494	146.7	213.8	-1.4	0.454
4-2210	4-267C	0.413	315.7	-21.7	-1.45	1.335	78.8	0.818 5.339		25.0	141.8	---	---	0.51	0.465	144.8	213.5	-1.4	0.425
4-2210	4-269C	0.408	314.5	-22.1	-1.47	1.326	78.6	0.796 4.749		25.9	144.5	---	---	0.51	0.440	142.7	213.0	-1.3	0.398
4-2210	4-271C	0.403	313.5	-22.4	-1.49	1.319	78.4	0.777 4.343		26.6	147.1	---	---	0.52	0.417	140.5	212.5	-1.3	0.374
4-2210	4-273C	0.399	312.7	-22.7	-1.51	1.313	78.3	0.761 4.048		27.2	149.6	---	---	0.53	0.396	138.3	211.9	-1.2	0.352
4-2210	4-275C	0.395	312.1	-23.0	-1.53	1.307	78.2	0.748 3.827		27.7	151.9	---	---	0.55	0.377	136.0	211.1	-1.2	0.333
4-2210	4-277C	0.391	311.6	-23.2	-1.55	1.302	78.1	0.736 3.657		28.1	154.1	---	---	0.56	0.361	133.6	210.3	-1.1	0.315
4-2210	4-279C	0.388	311.3	-23.4	-1.58	1.298	78.1	0.726 3.523		28.3	156.1	---	---	0.57	0.346	131.2	209.4	-1.0	0.299
4-2210	4-281C	0.385	311.1	-23.6	-1.60	1.295	78.2	0.718 3.417		28.4	158.1	---	---	0.59	0.333	128.7	208.4	-0.9	0.284
4-2210	4-283C	0.382	311.1	-23.7	-1.62	1.292	78.2	0.711 3.332		28.5	160.0	---	---	0.60	0.321	126.2	207.4	-0.8	0.271
4-2210	4-285C	0.379	311.2	-23.8	-1.65	1.290	78.3	0.704 3.262		28.4	161.7	---	---	0.62	0.310	123.7	206.2	-0.7	0.260
4-2210	4-287C	0.376	311.4	-23.9	-1.68	1.288	78.4	0.699 3.206		28.3	163.4	---	---	0.64	0.301	121.1	205.0	-0.6	0.250

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2210	4-2890	0.373	311.8	-23.9	-1.71	1.286	78.6	0.694	3.160	28.0	165.0	---	---	0.66	0.293	118.6	203.7	-0.5	0.241
4-2210	4-2910	0.370	312.2	-24.0	-1.74	1.284	78.7	0.690	3.123	27.7	166.5	---	---	0.68	0.286	116.1	202.4	-0.4	0.233
4-2210	4-2930	0.366	312.7	-24.0	-1.77	1.283	78.9	0.687	3.092	27.4	167.9	---	---	0.71	0.280	113.6	201.1	-0.3	0.226
4-2210	4-2950	0.363	313.4	-24.0	-1.81	1.282	79.1	0.684	3.068	26.9	169.3	---	---	0.74	0.275	111.1	199.7	-0.2	0.220
4-2210	4-2970	0.360	314.1	-24.1	-1.85	1.281	79.3	0.681	3.048	26.4	170.6	---	---	0.77	0.271	108.7	198.4	-0.0	0.215
4-2210	4-2990	0.357	314.9	-24.1	-1.89	1.281	79.6	0.679	3.033	25.9	171.9	---	---	0.81	0.267	106.3	197.1	0.1	0.210
4-2210	4-3010	0.354	315.8	-24.1	-1.94	1.280	79.8	0.677	3.021	25.2	173.1	---	---	0.85	0.264	104.0	195.8	0.2	0.207
4-2210	4-3030	0.351	316.8	-24.1	-1.99	1.280	80.1	0.675	3.013	24.6	174.2	---	---	0.89	0.262	101.7	194.6	0.3	0.204
4-2210	4-3050	0.348	317.8	-24.1	-2.05	1.279	80.4	0.674	3.007	23.9	175.3	---	---	0.94	0.260	99.5	193.5	0.5	0.202
4-2210	4-3070	0.345	319.0	-24.1	-2.12	1.279	80.7	0.673	3.003	23.1	176.4	---	---	1.00	0.258	97.4	192.4	0.6	0.200
4-2210	4-3090	0.342	320.2	-24.1	-2.19	1.279	81.0	0.672	3.002	22.3	177.4	---	---	1.07	0.257	95.4	191.4	0.8	0.199
4-2210	4-3110	0.339	321.5	-24.1	-2.28	1.279	81.4	0.671	3.002	21.5	178.3	---	---	1.15	0.257	93.4	190.5	0.9	0.198
4-2210	4-3130	0.336	322.9	-24.1	-2.38	1.279	81.7	0.671	3.004	20.7	179.3	---	---	1.24	0.256	91.5	189.7	1.1	0.198
4-2210	4-3150	0.333	324.4	-24.2	-2.49	1.280	82.1	0.670	3.007	19.8	180.2	---	5.023	1.34	0.256	89.7	189.0	1.3	0.198
4-2210	4-3170	0.331	325.9	-24.4	-2.63	1.280	82.4	0.670	3.012	18.9	181.0	---	5.030	1.47	0.256	87.9	188.4	1.5	0.199
4-2210	4-3190	0.328	327.6	-24.6	-2.79	1.280	82.8	0.670	3.018	17.9	181.8	---	5.039	1.63	0.257	86.3	187.9	1.7	0.199
4-2210	4-3210	0.326	329.4	-24.9	-3.00	1.280	83.2	0.670	3.024	16.9	182.6	---	5.051	1.83	0.257	84.7	187.5	1.9	0.200
4-2210	4-3230	0.325	331.4	-25.5	-3.25	1.281	83.6	0.670	3.032	15.9	183.4	---	5.064	2.08	0.258	83.1	187.3	2.3	0.202
4-2210	4-3250	0.324	333.5	-26.3	-3.60	1.281	84.0	0.671	3.040	14.9	184.2	---	5.079	2.41	0.259	81.7	187.1	2.7	0.203
4-2210	4-3270	0.324	335.9	-27.5	-4.07	1.281	84.4	0.671	3.049	13.9	184.9	---	5.095	2.88	0.260	80.2	187.0	3.2	0.205
4-2210	4-3290	0.325	338.8	-29.5	-4.77	1.282	84.9	0.671	3.059	12.8	185.6	---	5.113	3.57	0.261	78.9	187.0	4.1	0.207
4-2210	4-3310	0.330	342.4	-32.9	-5.90	1.282	85.3	0.672	3.069	11.8	186.2	---	5.132	4.70	0.262	77.6	187.2	5.4	0.209
4-2210	4-3330	0.346	348.1	-39.4	-8.06	1.283	85.7	0.673	3.080	10.7	186.9	---	5.152	6.85	0.263	76.4	187.6	7.8	0.213
4-2210	4-3350	0.408	1.9	-54.0	-13.84	1.283	86.1	0.673	3.091	9.6	187.5	---	5.173	12.62	0.265	75.2	188.6	14.0	0.224
4-2210	4-3370	1.156	128.6	-61.7	-59.52	1.284	86.5	0.674	3.103	8.7	188.1	---	5.195	58.30	0.266	74.0	198.6	32.7	0.392
4-2210	4-3390	0.436	315.0	40.7	16.02	1.284	87.1	0.675	3.115	7.2	188.7	---	5.218	-17.25	0.267	72.9	188.1	-19.0	0.238
4-2210	4-3410	0.331	331.3	17.8	6.84	1.285	87.6	0.676	3.128	6.0	189.3	---	5.242	-8.08	0.269	71.9	188.0	-9.7	0.222
4-2210	4-3430	0.312	337.5	8.7	4.02	1.285	88.0	0.677	3.140	4.9	189.8	---	5.267	-5.26	0.270	70.9	188.5	-6.5	0.222
4-2210	4-3450	0.306	341.5	4.3	2.66	1.286	88.5	0.678	3.154	3.7	190.3	---	5.292	-3.91	0.272	69.9	189.0	-5.0	0.223
4-2210	4-3470	0.304	344.7	2.0	1.85	1.286	89.0	0.679	3.167	2.5	190.9	---	5.319	-3.11	0.273	69.0	189.7	-4.0	0.225
4-2210	4-3490	0.303	347.5	0.7	1.32	1.287	89.5	0.681	3.180	1.3	191.4	---	5.345	-2.59	0.274	68.0	190.3	-3.5	0.226
4-2210	4-3510	0.303	350.1	0.1	0.94	1.287	90.0	0.682	3.194	0.1	191.8	---	5.373	-2.21	0.276	67.2	191.0	-3.1	0.229
4-2210	4-3530	0.304	352.5	-0.2	0.66	1.288	90.5	0.683	3.208	358.8	552.3	1.015	5.401	-1.94	0.277	66.3	191.7	-2.8	0.231
4-2210	4-3550	0.305	354.8	-0.2	0.44	1.288	91.0	0.685	3.222	357.6	552.8	1.015	5.429	-1.73	0.279	65.5	192.5	-2.5	0.233
4- 210	4-3570	0.306	357.1	-0.0	0.27	1.289	91.5	0.687	3.236	356.4	553.2	1.015	5.458	-1.56	0.280	64.7	193.3	-2.4	0.235
4-2210	4-3590	0.308	359.3	0.2	0.12	1.289	92.0	0.688	3.251	355.1	553.6	1.014	5.488	-1.42	0.282	63.9	194.2	-2.3	0.237
4-2210	4-3610	0.310	1.4	0.6	0.00	1.290	92.5	0.690	3.265	353.8	554.0	1.013	5.518	-1.31	0.283	63.2	195.1	-2.2	0.240
4-2210	4-3630	0.313	3.6	1.1	-0.10	1.290	93.0	0.691	3.280	352.6	554.4	1.012	5.548	-1.21	0.285	62.5	196.0	-2.1	0.242
4-2210	4-3650	0.316	5.6	1.6	-0.19	1.291	93.6	0.693	3.295	351.3	554.8	1.011	5.579	-1.13	0.286	61.7	196.9	-2.1	0.244
4-2210	4-3670	0.319	7.7	2.1	-0.27	1.291	94.1	0.695	3.310	350.0	555.2	1.009	5.610	-1.06	0.288	61.0	197.9	-2.0	0.246
4-2210	4-3690	0.323	9.7	2.7	-0.33	1.292	94.6	0.697	3.325	348.7	555.5	1.007	5.642	-1.00	0.289	60.4	198.9	-2.0	0.249
4-2210	4-3710	0.327	11.7	3.3	-0.40	1.292	95.2	0.699	3.340	347.4	555.9	1.005	5.674	-0.94	0.290	59.7	199.9	-2.0	0.251
4-2210	4-3730	0.331	13.6	3.9	-0.45	1.293	95.7	0.701	3.355	346.0	556.2	1.003	5.706	-0.90	0.292	59.1	201.0	-2.0	0.253
4-2210	4-3750	0.336	15.5	4.6	-0.50	1.293	96.3	0.703	3.370	344.7	556.6	1.001	5.739	-0.86	0.293	58.4	202.1	-2.0	0.255
4-2210	4-3770	0.341	17.4	5.2	-0.54	1.294	96.9	0.705	3.385	343.4	556.9	0.998	5.772	-0.82	0.295	57.8	203.1	-2.0	0.257
4-2210	4-3790	0.346	19.3	5.8	-0.58	1.294	97.4	0.707	3.400	342.1	557.2	0.995	5.805	-0.78	0.296	57.2	204.3	-2.0	0.260
4-2210	4-3810	0.351	21.1	6.4	-0.62	1.295	98.0	0.710	3.415	340.7	557.5	0.992	5.839	-0.75	0.297	56.6	205.4	-2.0	0.262
4-2220	4-2480	0.639	331.9	-14.8	-1.28	1.568	77.9	1.479	-2.044	20.3	110.2	---	---	0.24	0.965	160.6	213.6	-1.6	0.908
4-2220	4-2500	0.599	329.0	-16.0	-1.29	1.519	77.2	1.331	-2.940	22.3	114.1	---	---	0.24	0.862	159.4	213.8	-1.6	0.827
4-2220	4-2520	0.568	326.3	-17.0	-1.30	1.480	76.6	1.214	-4.508	24.3	117.9	---	---	0.24	0.791	158.1	213.9	-1.6	0.756
4-2220	4-2540	0.544	323.7	-18.0	-1.31	1.447	76.1	1.122	-7.896	26.3	121.6	---	---	0.24	0.728	156.7	214.0	-1.6	0.694
4-2220	4-2560	0.525	321.2	-18.8	-1.31	1.420	75.6	1.047	20.283	28.1	125.3	---	---	0.24	0.673	155.2	214.0	-1.6	0.639
4-2220	4-2580	0.511	319.1	-19.5	-1.32	1.398	75.2	0.987	71.469	29.8	128.9	---	---	0.24	0.624	153.6	214.0	-1.6	0.590
4-2220	4-2600	0.499	317.1	-20.2	-1.33	1.379	74.8	0.937	15.082	31.4	132.3	---	---	0.25	0.581	152.0	213.9	-1.6	0.547
4-2220	4-2620	0.489	315.4	-20.7	-1.34	1.363	74.5	0.897	9.110	32.8	135.5	---	---	0.25	0.542	150.2	213.7	-1.6	0.508
4-2220	4-2640	0.481	313.9	-21.1	-1.35	1.350	74.2	0.863	6.846	34.1	138.6	---	---	0.25	0.508	148.3	213.4	-1.5	0.473
4-2220	4-2660	0.475	312.6	-21.5	-1.35	1.338	74.0	0.836	5.665	35.2	141.6	---	---	0.25	0.477	146.4	213.0	-1.5	0.442
4-2220	4-2680	0.469	311.5	-21.8	-1.36	1.329	73.9	0.812	4.946	36.1	144.4	---	---	0.25	0.449	144.3	212.6	-1.5	0.414
4-2220	4-2700	0.464	310.6	-22.1	-1.37	1.321	73.7	0.793	4.467	36.9	147.0	---	---	0.26	0.424	142.2	212.0	-1.5	0.388
4-2220	4-2720	0.460	309.9	-22.3	-1.38	1.314	73.7	0.776	4.128	37.6	149.5	---	---	0.26	0.402	139.9	211.4	-1.4	0.365
4-2220	4-2740	0.455	309.3	-22.5	-1.39	1.308	73.6	0.762	3.879	38.1	151.8	---	---	0.26	0.382	137.6	210.7	-1.4	0.345
4-2220	4-2760	0.451	308.9	-22.7	-1.40	1.303	73.6	0.750	3.690	38.5	154.0	---	---	0.27	0.364	135.3	209.9	-1.3	0.326
4-2220	4-2780	0.448	308.6	-22.8	-1.41	1.298	73.6	0.740	3.543	38.7	156.1	---	---	0.27	0.348	132.8	209.0	-1.3	0.309
4-2220	4-2800	0.444	308.5	-22.9	-1.42	1.295	73.7	0.731	3.427	38.9	158.1	---	---	0.28	0.334	130.3	208.0	-1.2	0.294
4-2220	4-2820	0.440	308.4	-22.9	-1.43	1.292	73.8	0.724	3.335	38.9	159.9	---	---	0.28	0.321	127.8	206.9	-1.1	0.280
4-2220	4-2840	0.437	308.5	-23.0	-1.44	1.289	73.9	0.717	3.260	38.9	161.7	---	---	0.29	0.310	125.2	205.8	-1.1	0.268
4-2220	4-2860	0.433	308.7	-23.0	-1.45	1.287	74.0	0.711	3.200	38.7	163.4	---	---	0.29	0.301	122.6	204.6	-1.0	0.257
4-2220	4-2880	0.429	308.9	-23.0	-1.46	1.285	74.2	0.706	3.151	38.5	165.0	---	---	0.30	0.292	120.0	203.3	-0.9	0.248
4-2220	4-2900	0.425	309.3	-23.0	-1.47	1.283	74.4	0.702	3.112	38.1	166.5	---	---	0.31	0.285	117.4	202.0	-0.8	0.239
4-2220	4-2920	0.422	309.7	-23.0	-1.49	1.282	74.6	0.698	3.080	37.7	167.9	---	---	0.32	0.278	114.8	200.7	-0.7	0.232
4-2220	4-2940	0.418	310.2	-22.9	-1.50	1.281	74.8	0.695	3.054	37.3	169.2	---	---	0.33	0.273	112.3	199.4	-0.7	0.226
4-2220	4-2960	0.414	310.8	-22.9	-1.51	1.280	75.1	0.692	3.033	36.8	170.5	---	---	0.33	0.268	109.8	198.1	-0.6	0.220
4-2220	4-2980	0.410	311.5	-22.8	-1.53	1.279	75.3	0.690	3.017	36.2	171.8	---	---	0.35	0.264	107.3	196.8	-0.5	0.216
4-2220	4-3000	0.405	312.2	-22.7	-1.55	1.279	75.6	0.688	3.005	35.6	172.9	---	---	0.36	0.261	104.9	195.6	-0.4	0.212
4-2220	4-3020	0.401	313.0	-22.6	-1.56	1.278	75.9	0.686	2.996	34.9	174.1	---	---	0.37	0.259	102.6	194.4	-0.3	0.209
4-2220	4-3040	0.397	313.8	-22.5	-1.58	1.278	76.2	0.684	2.990	34.2	175.1	---	---	0.38	0.257	100.3	193.3	-0.2	0.206
4-2220	4-3060	0.393	314.7	-22.4	-1.60	1.278	76.5	0.682	2.987	33.4	176.2	---	---	0.40	0.255	98.1	192.2	-0.2	0.204
4-2220	4-3080	0.389	315.7	-22.3	-1.62	1.278	76.9	0.681	2.985	32.6	177.2	---	---	0.42	0.254	96.0	191.2	-0.1	0.203
4-2220	4-3100	0.384	316.7	-22.2	-1.65	1.278	77.2	0.680	2.985	31.7	178.1	---	---	0.44	0.253	94.0	190.3	-0.0	0.202
4-2220	4-3120	0.380	317.8	-22.0	-1.67	1.278	77.6	0.679	2.987	30.9	179.0	---	---	0.46	0.253	92.0	189.5	0.1	0.201

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2220	4-3140	0.376	318.9	-21.9	-1.70	1.278	77.9	0.679	2.991	30.0	179.9	---	---	0.48	0.253	90.2	188.9	0.1	0.201
4-2220	4-3160	0.371	320.1	-21.7	-1.73	1.278	78.3	0.678	2.996	29.0	180.8	---	5.027	0.51	0.253	88.4	188.3	0.2	0.201
4-2220	4-3180	0.367	321.3	-21.5	-1.77	1.279	78.7	0.678	3.002	28.1	181.6	---	5.035	0.54	0.254	86.7	187.8	0.3	0.202
4-2220	4-3200	0.363	322.6	-21.3	-1.81	1.279	79.1	0.677	3.009	27.1	182.4	---	5.046	0.58	0.254	85.1	187.4	0.3	0.203
4-2220	4-3220	0.359	324.0	-21.2	-1.85	1.279	79.5	0.677	3.016	26.1	183.1	---	5.058	0.62	0.255	83.5	187.0	0.4	0.204
4-2220	4-3240	0.355	325.4	-21.0	-1.91	1.280	79.9	0.677	3.025	25.1	183.9	---	5.073	0.67	0.256	82.0	186.8	0.5	0.205
4-2220	4-3260	0.351	326.9	-20.8	-1.97	1.280	80.3	0.677	3.035	24.0	184.6	---	5.088	0.73	0.257	80.6	186.7	0.5	0.206
4-2220	4-3280	0.347	328.5	-20.7	-2.04	1.280	80.8	0.677	3.045	22.9	185.3	---	5.105	0.80	0.258	79.2	186.7	0.6	0.207
4-2220	4-3300	0.344	330.1	-20.6	-2.13	1.281	81.2	0.677	3.055	21.9	185.9	---	5.124	0.88	0.260	77.9	186.7	0.7	0.209
4-2220	4-3320	0.340	331.8	-20.5	-2.24	1.281	81.6	0.677	3.066	20.7	186.6	---	5.143	0.99	0.261	76.7	186.9	0.8	0.211
4-2220	4-3340	0.337	333.6	-20.5	-2.38	1.282	82.1	0.678	3.078	19.6	187.2	---	5.164	1.12	0.262	75.5	187.1	1.0	0.212
4-2220	4-3360	0.334	335.5	-20.7	-2.56	1.282	82.5	0.678	3.090	18.5	187.8	---	5.185	1.30	0.264	74.4	187.4	1.2	0.214
4-2220	4-3380	0.332	337.6	-21.1	-2.82	1.283	83.0	0.678	3.103	17.3	188.4	---	5.208	1.55	0.265	73.3	187.7	1.4	0.216
4-2220	4-3400	0.330	339.9	-21.9	-3.19	1.283	83.5	0.679	3.116	16.2	188.9	---	5.231	1.92	0.267	72.2	188.2	1.8	0.218
4-2220	4-3420	0.330	342.6	-23.4	-3.79	1.284	83.9	0.680	3.129	15.0	189.5	---	5.255	2.52	0.268	71.2	188.7	2.4	0.220
4-2220	4-3440	0.333	346.3	-26.9	-4.93	1.284	84.4	0.680	3.142	13.8	190.0	---	5.280	3.66	0.270	70.3	189.3	3.7	0.223
4-2220	4-3460	0.352	353.1	-36.1	-7.95	1.285	84.9	0.681	3.156	12.6	190.5	---	5.305	6.67	0.271	69.3	190.2	6.9	0.227
4-2220	4-3480	0.752	74.0	-73.7	-35.46	1.286	85.3	0.682	3.170	11.5	191.0	---	5.332	34.17	0.273	68.4	196.9	27.6	0.300
4-2220	4-3500	0.357	330.1	23.9	8.86	1.286	85.9	0.683	3.184	10.2	191.5	---	5.358	-10.15	0.275	67.6	190.8	-11.6	0.235
4-2220	4-3520	0.317	340.9	6.2	3.24	1.287	86.4	0.684	3.198	8.9	192.0	---	5.385	-4.53	0.276	66.8	191.4	-5.6	0.231
4-2220	4-3540	0.310	345.3	1.0	1.62	1.287	86.9	0.685	3.213	7.7	192.5	---	5.413	-2.92	0.278	66.0	192.2	-3.8	0.232
4-2220	4-3560	0.308	348.5	-1.1	0.86	1.288	87.4	0.686	3.227	6.5	192.9	---	5.441	-2.15	0.279	65.2	193.0	-3.0	0.234
4-2220	4-3580	0.307	351.2	-1.9	0.41	1.288	87.9	0.687	3.242	5.2	193.3	---	5.470	-1.71	0.281	64.4	193.9	-2.6	0.236
4-2220	4-3600	0.306	353.7	-2.2	0.11	1.289	88.4	0.688	3.257	4.0	193.8	---	5.499	-1.42	0.282	63.7	194.7	-2.3	0.238
4-2220	4-3620	0.306	356.0	-2.2	-0.09	1.289	88.9	0.690	3.272	2.7	194.2	---	5.528	-1.21	0.284	63.0	195.6	-2.1	0.240
4-2220	4-3640	0.306	358.3	-1.9	-0.25	1.290	89.4	0.691	3.287	1.4	194.6	---	5.558	-1.06	0.285	62.3	196.6	-2.0	0.242
4-2220	4-3660	0.307	0.5	-1.5	-0.37	1.290	90.0	0.692	3.302	0.1	195.0	---	5.588	-0.94	0.287	61.7	197.5	-1.9	0.244
4-2220	4-3680	0.308	2.7	-1.0	-0.47	1.291	90.5	0.694	3.318	358.8	555.3	1.016	5.619	-0.85	0.288	61.0	198.5	-1.8	0.246
4-2220	4-3700	0.309	4.9	-0.4	-0.55	1.291	91.0	0.695	3.333	357.5	555.7	1.016	5.650	-0.78	0.290	60.4	199.5	-1.8	0.248
4-2220	4-3720	0.310	7.0	0.3	-0.61	1.292	91.5	0.697	3.348	356.2	556.0	1.015	5.681	-0.71	0.291	59.8	200.6	-1.8	0.250
4-2220	4-3740	0.312	9.1	0.9	-0.67	1.293	92.1	0.698	3.364	354.9	556.4	1.015	5.713	-0.66	0.293	59.2	201.6	-1.8	0.252
4-2220	4-3760	0.315	11.2	1.6	-0.72	1.293	92.6	0.700	3.379	353.6	556.7	1.014	5.745	-0.62	0.294	58.6	202.7	-1.8	0.254
4-2220	4-3780	0.317	13.3	2.4	-0.76	1.294	93.2	0.702	3.395	352.3	557.0	1.013	5.777	-0.58	0.296	58.0	203.8	-1.8	0.256
4-2220	4-3800	0.320	15.4	3.1	-0.80	1.294	93.7	0.704	3.410	351.0	557.3	1.011	5.809	-0.54	0.297	57.4	204.9	-1.8	0.258
4-2220	4-3820	0.324	17.4	3.8	-0.83	1.295	94.3	0.705	3.426	349.6	557.6	1.009	5.842	-0.51	0.298	56.9	206.0	-1.8	0.260
4-2230	4-2530	0.630	321.3	-18.2	-1.30	1.465	70.4	1.162	-5.619	36.3	121.2	---	---	0.03	0.763	158.2	213.5	-1.7	0.733
4-2230	4-2550	0.609	319.1	-18.9	-1.30	1.434	70.1	1.080	11.261	38.3	125.1	---	---	0.03	0.702	156.8	213.5	-1.7	0.673
4-2230	4-2570	0.593	317.1	-19.5	-1.30	1.408	69.8	1.015	60.842	40.2	128.8	---	---	0.03	0.648	155.3	213.4	-1.7	0.621
4-2230	4-2590	0.580	315.3	-20.0	-1.31	1.387	69.5	0.962	23.380	41.9	132.3	---	---	0.03	0.601	153.6	213.2	-1.7	0.574
4-2230	4-2610	0.569	313.7	-20.5	-1.31	1.370	69.3	0.919	10.912	43.4	135.7	---	---	0.03	0.559	151.9	213.0	-1.7	0.532
4-2230	4-2630	0.560	312.4	-20.8	-1.31	1.355	69.1	0.884	7.564	44.8	138.9	---	---	0.03	0.521	150.1	212.7	-1.6	0.495
4-2230	4-2650	0.552	311.3	-21.1	-1.31	1.342	68.9	0.855	6.023	45.9	141.9	---	---	0.03	0.488	148.2	212.3	-1.6	0.461
4-2230	4-2670	0.546	310.4	-21.4	-1.31	1.331	68.8	0.831	5.145	46.9	144.7	---	---	0.03	0.458	146.2	211.8	-1.6	0.431
4-2230	4-2690	0.540	309.6	-21.6	-1.31	1.323	68.8	0.811	4.583	47.8	147.4	---	---	0.03	0.431	144.0	211.3	-1.6	0.404
4-2230	4-2710	0.534	309.0	-21.7	-1.31	1.315	68.7	0.794	4.197	48.4	149.9	---	---	0.03	0.407	141.8	210.6	-1.5	0.380
4-2230	4-2730	0.529	308.6	-21.9	-1.31	1.308	68.8	0.780	3.918	49.0	152.2	---	---	0.03	0.385	139.5	209.9	-1.5	0.358
4-2230	4-2750	0.525	308.2	-21.9	-1.31	1.303	68.8	0.767	3.710	49.3	154.4	---	---	0.03	0.366	137.1	209.1	-1.5	0.338
4-2230	4-2770	0.520	308.0	-22.0	-1.31	1.298	68.9	0.757	3.550	49.6	156.5	---	---	0.03	0.349	134.6	208.1	-1.4	0.320
4-2230	4-2790	0.516	307.9	-22.1	-1.31	1.294	69.0	0.748	3.425	49.7	158.4	---	---	0.03	0.334	132.1	207.2	-1.4	0.304
4-2230	4-2810	0.511	307.9	-22.1	-1.31	1.291	69.1	0.740	3.326	49.7	160.3	---	---	0.03	0.320	129.5	206.1	-1.3	0.290
4-2230	4-2830	0.507	308.0	-22.1	-1.32	1.288	69.3	0.734	3.247	49.6	162.0	---	---	0.03	0.308	126.8	205.0	-1.3	0.277
4-2230	4-2850	0.502	308.1	-22.1	-1.32	1.286	69.4	0.728	3.184	49.4	163.6	---	---	0.03	0.298	124.2	203.8	-1.2	0.266
4-2230	4-2870	0.498	308.4	-22.1	-1.32	1.284	69.6	0.722	3.132	49.1	165.2	---	---	0.03	0.289	121.5	202.5	-1.1	0.256
4-2230	4-2890	0.493	308.7	-22.0	-1.32	1.282	69.9	0.718	3.091	48.8	166.7	---	---	0.03	0.281	118.8	201.3	-1.1	0.247
4-2230	4-2910	0.488	309.0	-22.0	-1.32	1.281	70.1	0.714	3.058	48.4	168.1	---	---	0.03	0.274	116.1	200.0	-1.0	0.240
4-2230	4-2930	0.484	309.5	-21.9	-1.32	1.280	70.4	0.710	3.031	47.9	169.4	---	---	0.03	0.268	113.5	198.7	-1.0	0.233
4-2230	4-2950	0.479	310.0	-21.8	-1.32	1.279	70.6	0.707	3.010	47.3	170.6	---	---	0.03	0.264	110.8	197.4	-0.9	0.227
4-2230	4-2970	0.474	310.5	-21.7	-1.32	1.278	70.9	0.704	2.994	46.7	171.8	---	---	0.03	0.260	108.3	196.2	-0.8	0.222
4-2230	4-2990	0.469	311.1	-21.6	-1.32	1.277	71.2	0.702	2.981	46.0	173.0	---	---	0.03	0.256	105.8	195.0	-0.8	0.218
4-2230	4-3010	0.464	311.8	-21.5	-1.33	1.277	71.5	0.700	2.972	45.3	174.1	---	---	0.03	0.254	103.3	193.8	-0.7	0.215
4-2230	4-3030	0.459	312.5	-21.4	-1.33	1.277	71.9	0.698	2.966	44.6	175.1	---	---	0.03	0.252	101.0	192.7	-0.6	0.212
4-2230	4-3050	0.454	313.2	-21.2	-1.33	1.277	72.2	0.696	2.963	43.8	176.1	---	---	0.04	0.250	98.7	191.7	-0.6	0.210
4-2230	4-3070	0.448	314.0	-21.1	-1.33	1.277	72.6	0.694	2.961	43.0	177.1	---	---	0.04	0.249	96.5	190.7	-0.5	0.208
4-2230	4-3090	0.443	314.8	-20.9	-1.33	1.277	72.9	0.693	2.962	42.1	178.0	---	---	0.04	0.248	94.4	189.9	-0.5	0.207
4-2230	4-3110	0.438	315.7	-20.7	-1.33	1.277	73.3	0.692	2.964	41.2	178.9	---	---	0.04	0.248	92.4	189.1	-0.4	0.206
4-2230	4-3130	0.432	316.6	-20.5	-1.34	1.277	73.7	0.691	2.968	40.3	179.8	---	---	0.04	0.248	90.5	188.4	-0.4	0.206
4-2230	4-3150	0.427	317.6	-20.3	-1.34	1.277	74.1	0.690	2.973	39.3	180.6	---	5.024	0.04	0.249	88.6	187.9	-0.4	0.206
4-2230	4-3170	0.422	318.6	-20.1	-1.34	1.277	74.5	0.689	2.980	38.3	181.4	---	5.032	0.04	0.249	86.9	187.4	-0.3	0.206
4-2230	4-3190	0.416	319.6	-19.9	-1.34	1.278	74.9	0.688	2.987	37.3	182.2	---	5.042	0.04	0.250	85.2	187.0	-0.3	0.207
4-2230	4-3210	0.411	320.7	-19.6	-1.34	1.278	75.3	0.687	2.995	36.3	182.9	---	5.054	0.05	0.251	83.6	186.7	-0.3	0.208
4-2230	4-3230	0.406	321.8	-19.3	-1.35	1.278	75.7	0.687	3.004	35.3	183.7	---	5.068	0.05	0.252	82.1	186.5	-0.3	0.208
4-2230	4-3250	0.400	323.0	-19.1	-1.35	1.279	76.2	0.686	3.014	34.2	184.4	---	5.083	0.05	0.253	80.6	186.4	-0.3	0.209
4-2230	4-3270	0.395	324.2	-18.7	-1.35	1.279	76.6	0.686	3.025	33.1	185.0	---	5.100	0.05	0.255	79.2	186.4	-0.3	0.211
4-2230	4-3290	0.390	325.4	-18.4	-1.36	1.280	77.1	0.686	3.036	32.0	185.7	---	5.118	0.06	0.256	77.9	186.4	-0.3	0.212
4-2230	4-3310	0.385	326.7	-18.1	-1.36	1.280	77.5	0.686	3.048	30.9	186.3	---	5.137	0.06	0.258	76.7	186.5	-0.3	0.213
4-2230	4-3330	0.380	328.1	-17.7	-1.37	1.281	78.0	0.686	3.060	29.8	186.9	---	5.157	0.07	0.259	75.5	186.7	-0.3	0.215
4-2230	4-3350	0.375	329.4	-17.3	-1.37	1.281	78.4	0.686	3.072	28.6	187.5	---	5.179	0.07	0.261	74.3	187.0	-0.3	0.217
4-2230	4-337.	0.370	330.9	-16.9	-1.38	1.282	78.9	0.686	3.085	27.5	188.1	---	5.201	0.08	0.262	73.3	187.3	-0.3	0.218
4-2230	4-3390	0.365	33213	-16.5	-1.39	1.282	79.3	0.686	3.099	26.3	188.7	---	5.223	0.09	0.264	72.2	187.7	-0.3	0.220
4-2230	4-3410	0.360	333.8	-16.1	-1.40	1.283	79.8	0.686	3.112	25.1	189.2	---	5.247	0.09	0.266	71.2	188.2	-0.3	0.222

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2230	4-3430	0.356	335.4	-15.6	-1.41	1.283	80.3	0.686	3.126	23.9	189.7	---	5.271	0.11	0.267	70.3	188.7	-0.3	0.223
4-2230	4-3450	0.351	337.0	-15.2	-1.42	1.284	80.8	0.686	3.140	22.7	190.3	---	5.296	0.12	0.269	69.4	189.3	-0.4	0.225
4-2230	4-3470	0.347	338.6	-14.7	-1.44	1.285	81.3	0.687	3.155	21.5	190.8	---	5.322	0.14	0.271	68.5	189.9	-0.4	0.227
4-2230	4-3490	0.343	340.3	-14.2	-1.47	1.285	81.8	0.687	3.169	20.3	191.2	---	5.348	0.16	0.272	67.6	190.6	-0.4	0.229
4-2230	4-3510	0.339	342.0	-13.7	-1.51	1.286	82.3	0.688	3.184	19.0	191.7	---	5.374	0.20	0.274	66.8	191.3	-0.4	0.231
4-2230	4-3530	0.336	343.9	-13.3	-1.57	1.286	82.8	0.688	3.199	17.8	192.2	---	5.401	0.26	0.276	66.1	192.0	-0.4	0.232
4-2230	4-3550	0.332	345.8	-13.1	-1.68	1.287	83.3	0.689	3.214	16.6	192.6	---	5.429	0.38	0.278	65.3	192.8	-0.3	0.234
4-2230	4-3570	0.330	348.0	-13.4	-1.96	1.287	83.8	0.690	3.229	15.3	193.1	---	5.457	0.66	0.279	64.6	193.6	-0.0	0.236
4-2230	4-3590	0.333	352.9	-19.8	-3.93	1.288	84.3	0.690	3.245	14.1	193.5	---	5.485	2.63	0.281	63.9	194.6	2.0	0.238
4-2230	4-3610	0.322	348.7	-4.8	0.02	1.289	84.8	0.691	3.260	12.8	193.9	---	5.514	-1.33	0.282	63.2	195.4	-2.2	0.240
4-2230	4-3630	0.319	351.8	-6.9	-0.77	1.289	85.3	0.692	3.276	11.5	194.3	---	5.543	-0.53	0.284	62.6	196.2	-1.4	0.242
4-2230	4-3650	0.317	354.1	-6.9	-0.97	1.290	85.8	0.693	3.291	10.2	194.7	---	5.573	-0.33	0.286	61.9	197.2	-1.3	0.243
4-2230	4-3670	0.316	356.1	-6.4	-1.06	1.290	86.3	0.694	3.307	8.9	195.1	---	5.602	-0.24	0.287	61.3	198.1	-1.2	0.245
4-2230	4-3690	0.314	358.2	-5.8	-1.12	1.291	86.9	0.695	3.323	7.7	195.4	---	5.632	-0.19	0.289	60.7	199.1	-1.2	0.247
4-2230	4-3710	0.313	0.3	-5.1	-1.15	1.291	87.4	0.696	3.338	6.4	195.8	---	5.663	-0.16	0.290	60.1	200.1	-1.2	0.249
4-2230	4-3730	0.312	2.3	-4.3	-1.17	1.292	87.9	0.697	3.354	5.1	196.2	---	5.693	-0.13	0.292	59.6	201.2	-1.2	0.251
4-2230	4-3750	0.311	4.4	-3.5	-1.19	1.292	88.5	0.699	3.370	3.8	196.5	---	5.724	-0.12	0.293	59.0	202.2	-1.3	0.252
4-2230	4-3770	0.311	6.5	-2.7	-1.20	1.293	89.0	0.700	3.386	2.4	196.8	---	5.756	-0.10	0.295	58.5	203.3	-1.3	0.254
4-2230	4-3790	0.311	8.6	-1.8	-1.22	1.294	89.5	0.701	3.402	1.1	197.2	---	5.787	-0.09	0.296	57.9	204.4	-1.4	0.256
4-2230	4-3810	0.312	10.7	-0.9	-1.22	1.294	90.1	0.703	3.418	359.8	557.5	1.017	5.819	-0.09	0.298	57.4	205.5	-1.4	0.258
4-2230	4-3830	0.312	12.8	-0.1	-1.23	1.295	90.6	0.704	3.434	358.5	557.8	1.017	5.851	-0.08	0.299	56.9	206.7	-1.5	0.260
4-2240	4-2580	0.677	315.0	-19.6	-1.33	1.397	63.7	0.98659	150	53.0	133.0	---	---	-0.19	0.622	155.6	212.3	-1.7	0.604
4-2240	4-2600	0.664	313.6	-20.0	-1.32	1.377	63.6	0.94213	.859	54.7	136.5	---	---	-0.19	0.576	153.9	212.1	-1.7	0.559
4-2240	4-2620	0.653	312.5	-20.3	-1.31	1.360	63.5	0.906	8.500	56.1	139.7	---	---	-0.19	0.535	152.2	211.7	-1.7	0.518
4-2240	4-2640	0.643	311.6	-20.5	-1.31	1.346	63.4	0.876	6.437	57.3	142.8	---	---	-0.19	0.499	150.3	211.3	-1.7	0.482
4-2240	4-2660	0.635	310.8	-20.7	-1.30	1.334	63.4	0.852	5.356	58.3	145.6	---	---	-0.19	0.466	148.3	210.8	-1.7	0.450
4-2240	4-2680	0.628	310.2	-20.9	-1.29	1.325	63.4	0.831	4.696	59.1	148.3	---	---	-0.19	0.437	146.2	210.2	-1.7	0.422
4-2240	4-2700	0.621	309.7	-21.0	-1.29	1.316	63.5	0.814	4.256	59.8	150.7	---	---	-0.19	0.411	144.0	209.5	-1.6	0.396
4-2240	4-2720	0.615	309.4	-21.1	-1.28	1.309	63.6	0.800	3.946	60.2	153.1	---	---	-0.19	0.388	141.6	208.8	-1.6	0.373
4-2240	4-2740	0.609	309.1	-21.1	-1.28	1.303	63.7	0.788	3.718	60.6	155.2	---	---	-0.19	0.367	139.2	207.9	-1.6	0.352
4-2240	4-2760	0.603	309.0	-21.2	-1.27	1.298	63.8	0.777	3.545	60.8	157.3	---	---	-0.19	0.349	136.7	207.0	-1.5	0.333
4-2240	4-2780	0.598	308.9	-21.2	-1.26	1.294	64.0	0.768	3.411	60.8	159.2	---	---	-0.19	0.332	134.1	206.0	-1.5	0.317
4-2240	4-2800	0.592	308.9	-21.2	-1.26	1.290	64.2	0.761	3.307	60.8	160.9	---	---	-0.19	0.318	131.5	204.9	-1.4	0.302
4-2240	4-2820	0.587	309.0	-21.2	-1.25	1.287	64.4	0.754	3.224	60.7	162.6	---	---	-0.19	0.305	128.7	203.8	-1.4	0.288
4-2240	4-2840	0.581	309.2	-21.1	-1.24	1.285	64.6	0.748	3.157	60.4	164.2	---	---	-0.20	0.294	126.0	202.6	-1.3	0.277
4-2240	4-2860	0.576	309.5	-21.1	-1.24	1.283	64.8	0.742	3.104	60.1	165.7	---	---	-0.20	0.284	123.2	201.4	-1.3	0.266
4-2240	4-2880	0.570	309.7	-21.0	-1.23	1.281	65.1	0.738	3.061	59.7	167.1	---	---	-0.20	0.276	120.3	200.2	-1.2	0.257
4-2240	4-2900	0.565	310.1	-21.0	-1.22	1.279	65.4	0.733	3.027	59.2	168.5	---	---	-0.20	0.268	117.5	198.9	-1.2	0.249
4-2240	4-2920	0.559	310.5	-20.9	-1.22	1.278	65.7	0.730	3.000	58.7	169.7	---	---	-0.20	0.262	114.7	197.6	-1.1	0.242
4-2240	4-2940	0.553	310.9	-20.8	-1.21	1.277	66.0	0.726	2.978	58.1	171.0	---	---	-0.21	0.257	112.0	196.4	-1.1	0.236
4-2240	4-2960	0.547	311.4	-20.7	-1.20	1.277	66.3	0.723	2.962	57.4	172.1	---	---	-0.21	0.253	109.3	195.2	-1.0	0.231
4-2240	4-2980	0.542	311.9	-20.6	-1.20	1.276	66.7	0.720	2.949	56.7	173.2	---	---	-0.21	0.249	106.6	194.0	-1.0	0.226
4-2240	4-3000	0.536	312.5	-20.4	-1.19	1.276	67.0	0.718	2.941	56.0	174.3	---	---	-0.22	0.247	104.1	192.9	-0.9	0.223
4-2240	4-3020	0.530	313.1	-20.3	-1.18	1.275	67.4	0.716	2.935	55.2	175.3	---	---	-0.22	0.245	101.6	191.8	-0.9	0.220
4-2240	4-3040	0.524	313.7	-20.1	-1.17	1.275	67.7	0.713	2.932	54.3	176.2	---	---	-0.22	0.243	99.2	190.9	-0.8	0.217
4-2240	4-3060	0.518	314.4	-20.0	-1.16	1.275	68.1	0.711	2.931	53.5	177.2	---	---	-0.23	0.242	96.9	190.0	-0.8	0.216
4-2240	4-3080	0.512	315.1	-19.8	-1.16	1.275	68.5	0.710	2.932	52.6	178.1	---	---	-0.23	0.242	94.7	189.1	-0.8	0.214
4-2240	4-3100	0.505	315.8	-19.6	-1.15	1.275	68.9	0.708	2.935	51.6	178.9	---	---	-0.24	0.242	92.6	188.4	-0.7	0.213
4-2240	4-3120	0.499	316.6	-19.4	-1.14	1.276	69.3	0.707	2.939	50.7	179.8	---	---	-0.25	0.242	90.6	187.8	-0.7	0.213
4-2240	4-3140	0.493	317.4	-19.2	-1.13	1.276	69.7	0.705	2.945	49.7	180.6	---	5.021	-0.25	0.242	88.6	187.2	-0.7	0.212
4-2240	4-3160	0.487	318.2	-19.0	-1.12	1.276	70.2	0.704	2.952	48.7	181.3	---	5.029	-0.26	0.243	86.8	186.8	-0.7	0.213
4-2240	4-3180	0.480	319.1	-18.8	-1.10	1.277	70.6	0.703	2.959	47.7	182.1	---	5.039	-0.27	0.244	85.1	186.4	-0.6	0.213
4-2240	4-3200	0.474	320.0	-18.5	-1.09	1.277	71.0	0.702	2.968	46.6	182.8	---	5.051	-0.28	0.245	83.4	186.2	-0.6	0.213
4-2240	4-3220	0.468	320.9	-18.2	-1.08	1.277	71.5	0.701	2.978	45.5	183.5	---	5.065	-0.28	0.247	81.9	186.0	-0.6	0.214
4-2240	4-3240	0.461	321.9	-17.9	-1.07	1.278	71.9	0.700	2.988	44.4	184.2	---	5.080	-0.29	0.248	80.4	185.9	-0.7	0.215
4-2240	4-3260	0.455	322.9	-17.6	-1.05	1.278	72.4	0.699	3.000	43.3	184.8	---	5.097	-0.31	0.250	79.0	185.9	-0.7	0.216
4-2240	4-3280	0.449	323.9	-17.3	-1.04	1.279	72.8	0.698	3.011	42.2	185.5	---	5.114	-0.32	0.251	77.6	186.0	-0.7	0.217
4-2240	4-3300	0.442	324.9	-17.0	-1.02	1.279	73.3	0.698	3.024	41.1	186.1	---	5.133	-0.33	0.253	76.4	186.1	-0.7	0.218
4-2240	4-3320	0.436	326.0	-16.6	-1.00	1.280	73.7	0.697	3.036	39.9	186.7	---	5.153	-0.35	0.255	75.2	186.3	-0.7	0.220
4-2240	4-3340	0.430	327.1	-16.2	-0.98	1.280	74.2	0.697	3.049	38.8	187.3	---	5.174	-0.36	0.256	74.0	186.6	-0.8	0.221
4-2240	4-3360	0.424	328.2	-15.8	-0.96	1.281	74.7	0.696	3.063	37.6	187.9	---	5.196	-0.38	0.258	72.9	187.0	-0.8	0.222
4-2240	4-3380	0.418	329.4	-15.4	-0.93	1.282	75.2	0.696	3.077	36.4	188.4	---	5.219	-0.41	0.260	71.9	187.4	-0.8	0.224
4-2240	4-3400	0.412	330.6	-14.9	-0.91	1.282	75.6	0.696	3.091	35.2	188.9	---	5.242	-0.43	0.262	70.9	187.8	-0.9	0.225
4-2240	4-3420	0.406	331.8	-14.5	-0.87	1.283	76.1	0.696	3.105	34.0	189.5	---	5.266	-0.46	0.264	70.0	188.3	-0.9	0.227
4-2240	4-3440	0.400	333.0	-13.9	-0.84	1.283	76.6	0.696	3.120	32.8	190.0	---	5.290	-0.49	0.266	69.1	188.9	-1.0	0.228
4-2240	4-3460	0.394	334.3	-13.4	-0.80	1.284	77.1	0.695	3.135	31.6	190.5	---	5.315	-0.53	0.268	68.2	189.5	-1.1	0.230
4-2240	4-3480	0.388	335.6	-12.8	-0.75	1.284	77.6	0.695	3.150	30.4	191.0	---	5.341	-0.57	0.269	67.4	190.2	-1.2	0.232
4-2240	4-3500	0.383	336.9	-12.1	-0.69	1.285	78.1	0.696	3.166	29.1	191.4	---	5.367	-0.63	0.271	66.6	190.9	-1.2	0.233
4-2240	4-3520	0.377	338.3	-11.4	-0.63	1.286	78.6	0.696	3.181	27.9	191.9	---	5.394	-0.69	0.273	65.8	191.6	-1.4	0.235
4-2240	4-3540	0.372	339.6	-10.6	-0.54	1.286	79.1	0.696	3.197	26.6	192.3	---	5.421	-0.77	0.275	65.1	192.4	-1.5	0.237
4-2240	4-3560	0.367	341.0	-9.7	-0.44	1.287	79.6	0.696	3.212	25.4	192.8	---	5.448	-0.87	0.277	64.4	193.2	-1.6	0.238
4-2240	4-3580	0.362	342.4	-8.6	-0.30	1.287	80.1	0.696	3.228	24.1	193.2	---	5.476	-1.00	0.278	63.7	194.0	-1.8	0.240
4-2240	4-3600	0.357	343.7	-7.4	-0.12	1.288	80.6	0.697	3.244	22.9	193.6	---	5.504	-1.19	0.280	63.1	194.9	-2.0	0.242
4-2240	4-3620	0.352	344.9	-5.9	0.14	1.289	81.2	0.697	3.260	21.6	194.0	---	5.533	-1.45	0.282	62.4	195.8	-2.3	0.243
4-2240	4-3640	0.348	346.0	-3.8	0.55	1.289	81.7	0.698	3.276	20.3	194.4	---	5.562	-1.85	0.284	61.8	196.7	-2.8	0.245
4-2240	4-3660	0.344	346.6	-0.6	1.28	1.290	82.2	0.698	3.292	19.0	194.8	---	5.591	-2.58	0.285	61.3	197.7	-3.6	0.247
4-2240	4-3680	0.344	345.7	5.8	2.95	1.290	82.7	0.699	3.309	17.7	195.2	---	5.620	-4.24	0.287	60.7	198.6	-5.2	0.249
4-2240	4-3700	0.394	334.8	29.1	10.53	1.291	83.2	0.699	3.325	16.5	195.5	---	5.650	-11.82	0.289	60.1	199.9	-12.5	0.259
4-2240	4-3720	0.452	17.2	-48.8	-15.67	1.292	83.8	0.700	3.341	15.1	195.9	---	5.680	14.38	0.290	59.6	202.6	12.4	0.264
4-2240	4-3740	0.348	4.4	-22.3	-5.84	1.292	84.3	0.701	3.357	13.8	196.2	---	5.710	4.56	0.292	59.1	202.2	3.3	0.254

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2240	4-3760	0.335	3.6	-15.4	-3.99	1.293	84.8	0.702	3.374	12.5	196.6	---	5.741	2.70	0.293	58.6	203.1	1.5	0.255
4-2240	4-3780	0.329	4.3	-11.9	-3.21	1.293	85.4	0.702	3.390	11.2	196.9	---	5.771	1.93	0.295	58.1	204.1	0.6	0.256
4-2240	4-3800	0.326	5.7	-9.6	-2.78	1.294	85.9	0.703	3.406	9.9	197.2	---	5.802	1.50	0.296	57.6	205.1	0.2	0.258
4-2240	4-3820	0.323	7.2	-7.8	-2.50	1.294	86.4	0.704	3.423	8.6	197.6	---	5.833	1.23	0.298	57.1	206.2	-0.2	0.259
4-2240	4-3840	0.321	8.9	-6.3	-2.31	1.295	87.0	0.705	3.439	7.3	197.9	---	5.865	1.04	0.299	56.6	207.4	-0.4	0.261
4-2250	4-2570	0.790	315.8	-19.0	-1.39	1.408	57.4	1.00977	7.393	64.9	134.5	---	---	-0.43	0.646	157.9	211.2	-1.8	0.638
4-2250	4-2590	0.773	314.7	-19.3	-1.38	1.385	57.4	0.96420	0.004	66.6	138.0	---	---	-0.42	0.595	156.3	210.9	-1.7	0.589
4-2250	4-2610	0.759	313.8	-19.5	-1.36	1.366	57.4	0.928	9.861	68.0	141.2	---	---	-0.42	0.550	154.6	210.5	-1.7	0.546
4-2250	4-2630	0.747	313.0	-19.7	-1.35	1.351	57.5	0.899	6.960	69.2	144.3	---	---	-0.42	0.510	152.7	210.1	-1.7	0.507
4-2250	4-2650	0.736	312.4	-19.9	-1.34	1.338	57.6	0.874	5.598	70.2	147.1	---	---	-0.41	0.475	150.8	209.5	-1.7	0.473
4-2250	4-2670	0.727	311.9	-20.0	-1.32	1.327	57.7	0.855	4.816	71.0	149.7	---	---	-0.41	0.443	148.7	208.9	-1.7	0.442
4-2250	4-2690	0.718	311.5	-20.1	-1.31	1.318	57.9	0.838	4.313	71.6	152.1	---	---	-0.41	0.415	146.5	208.2	-1.7	0.415
4-2250	4-2710	0.710	311.3	-20.1	-1.30	1.310	58.0	0.824	3.967	72.0	154.3	---	---	-0.41	0.390	144.2	207.4	-1.6	0.390
4-2250	4-2730	0.703	311.1	-20.2	-1.28	1.304	58.2	0.812	3.718	72.2	156.4	---	---	-0.40	0.367	141.7	206.5	-1.6	0.368
4-2250	4-2750	0.695	311.1	-20.2	-1.27	1.298	58.4	0.801	3.531	72.4	158.4	---	---	-0.40	0.347	139.2	205.6	-1.6	0.348
4-2250	4-2770	0.688	311.1	-20.2	-1.26	1.294	58.7	0.793	3.389	72.3	160.2	---	---	-0.40	0.329	136.5	204.6	-1.6	0.331
4-2250	4-2790	0.682	311.1	-20.2	-1.24	1.290	58.9	0.785	3.278	72.2	161.9	---	---	-0.40	0.314	133.8	203.5	-1.5	0.315
4-2250	4-2810	0.675	311.3	-20.1	-1.23	1.286	59.2	0.778	3.191	72.0	163.5	---	---	-0.40	0.300	131.0	202.4	-1.5	0.301
4-2250	4-2830	0.668	311.5	-20.1	-1.22	1.284	59.5	0.772	3.122	71.7	165.0	---	---	-0.40	0.288	128.1	201.2	-1.4	0.289
4-2250	4-2850	0.662	311.7	-20.0	-1.21	1.282	59.8	0.766	3.067	71.3	166.4	---	---	-0.40	0.277	125.2	200.0	-1.4	0.278
4-2250	4-2870	0.655	312.0	-20.0	-1.19	1.280	60.1	0.761	3.023	70.8	167.8	---	---	-0.41	0.268	122.2	198.8	-1.3	0.268
4-2250	4-2890	0.648	312.3	-19.9	-1.18	1.278	60.4	0.757	2.988	70.3	169.1	---	---	-0.41	0.260	119.2	197.6	-1.3	0.260
4-2250	4-2910	0.642	312.7	-19.8	-1.17	1.277	60.8	0.753	2.961	69.6	170.3	---	---	-0.41	0.254	116.3	196.3	-1.2	0.253
4-2250	4-2930	0.635	313.1	-19.7	-1.15	1.276	61.1	0.749	2.939	69.0	171.4	---	---	-0.41	0.249	113.3	195.1	-1.2	0.246
4-2250	4-2950	0.628	313.6	-19.6	-1.14	1.275	61.5	0.746	2.923	68.3	172.5	---	---	-0.41	0.244	110.4	194.0	-1.1	0.241
4-2250	4-2970	0.622	314.1	-19.4	-1.13	1.275	61.9	0.743	2.911	67.5	173.6	---	---	-0.42	0.241	107.6	192.8	-1.1	0.236
4-2250	4-2990	0.615	314.6	-19.3	-1.11	1.274	62.3	0.740	2.902	66.7	174.6	---	---	-0.42	0.238	104.9	191.8	-1.0	0.232
4-2250	4-3010	0.608	315.1	-19.1	-1.10	1.274	62.7	0.737	2.897	65.9	175.5	---	---	-0.43	0.236	102.2	190.8	-1.0	0.229
4-2250	4-3030	0.601	315.7	-19.0	-1.08	1.274	63.1	0.735	2.894	65.0	176.5	---	---	-0.43	0.234	99.7	189.8	-1.0	0.227
4-2250	4-3050	0.594	316.3	-18.8	-1.07	1.274	63.5	0.732	2.894	64.1	177.3	---	---	-0.44	0.234	97.2	189.0	-0.9	0.225
4-2250	4-3070	0.587	316.9	-18.7	-1.05	1.274	63.9	0.730	2.896	63.1	178.2	---	---	-0.44	0.233	94.8	188.2	-0.9	0.223
4-2250	4-3090	0.580	317.5	-18.5	-1.04	1.274	64.3	0.728	2.899	62.2	179.0	---	---	-0.45	0.233	92.6	187.6	-0.9	0.222
4-2250	4-3110	0.573	318.2	-18.3	-1.02	1.274	64.8	0.726	2.904	61.2	179.8	---	---	-0.46	0.234	90.5	187.0	-0.9	0.221
4-2250	4-3130	0.566	318.9	-18.1	-1.01	1.275	65.2	0.724	2.910	60.1	180.6	---	5.019	-0.47	0.234	88.5	186.5	-0.8	0.221
4-2250	4-3150	0.559	319.6	-17.8	-0.99	1.275	65.7	0.723	2.918	59.1	181.3	---	5.027	-0.48	0.235	86.5	186.1	-0.8	0.221
4-2250	4-3170	0.552	320.4	-17.6	-0.97	1.275	66.1	0.721	2.926	58.0	182.0	---	5.037	-0.48	0.237	84.7	185.8	-0.8	0.221
4-2250	4-3190	0.545	321.1	-17.4	-0.95	1.276	66.6	0.720	2.936	57.0	182.7	---	5.049	-0.50	0.238	83.0	185.5	-0.8	0.221
4-2250	4-3210	0.538	321.9	-17.1	-0.93	1.276	67.0	0.718	2.946	55.9	183.4	---	5.063	-0.51	0.240	81.4	185.4	-0.8	0.221
4-2250	4-3230	0.531	322.7	-16.9	-0.91	1.277	67.5	0.717	2.957	54.7	184.1	---	5.078	-0.52	0.241	79.9	185.3	-0.8	0.222
4-2250	4-3250	0.524	323.5	-16.6	-0.89	1.277	68.0	0.716	2.969	53.6	184.7	---	5.094	-0.53	0.243	78.4	185.3	-0.9	0.223
4-2250	4-3270	0.516	324.4	-16.3	-0.87	1.278	68.4	0.715	2.981	52.5	185.3	---	5.112	-0.55	0.245	77.1	185.4	-0.9	0.224
4-2250	4-3290	0.509	325.2	-16.0	-0.85	1.278	68.9	0.714	2.994	51.3	185.9	---	5.131	-0.56	0.247	75.8	185.6	-0.9	0.225
4-2250	4-3310	0.502	326.1	-15.7	-0.82	1.279	69.4	0.713	3.008	50.2	186.5	---	5.151	-0.58	0.249	74.5	185.8	-0.9	0.226
4-2250	4-3330	0.495	327.1	-15.3	-0.79	1.280	69.9	0.712	3.021	49.0	187.1	---	5.172	-0.60	0.251	73.4	186.1	-1.0	0.227
4-2250	4-3350	0.488	328.0	-15.0	-0.77	1.280	70.4	0.711	3.036	47.8	187.6	---	5.194	-0.62	0.253	72.3	186.5	-1.0	0.228
4-2250	4-3370	0.481	328.9	-14.6	-0.74	1.281	70.9	0.710	3.050	46.6	188.2	---	5.216	-0.65	0.255	71.3	186.9	-1.1	0.230
4-2250	4-3390	0.474	329.9	-14.2	-0.70	1.281	71.4	0.709	3.065	45.4	188.7	---	5.239	-0.67	0.257	70.3	187.4	-1.1	0.231
4-2250	4-3410	0.467	330.9	-13.8	-0.67	1.282	71.9	0.709	3.080	44.2	189.2	---	5.263	-0.70	0.259	69.3	187.9	-1.2	0.232
4-2250	4-3430	0.460	332.0	-13.3	-0.63	1.283	72.4	0.708	3.095	42.9	189.7	---	5.287	-0.73	0.261	68.4	188.5	-1.2	0.234
4-2250	4-3450	0.453	333.0	-12.8	-0.59	1.283	72.9	0.708	3.111	41.7	190.2	---	5.312	-0.77	0.263	67.6	189.1	-1.3	0.235
4-2250	4-3470	0.446	334.1	-12.3	-0.54	1.284	73.4	0.707	3.127	40.5	190.7	---	5.338	-0.81	0.265	66.8	189.8	-1.4	0.237
4-2250	4-3490	0.439	335.2	-11.8	-0.49	1.285	73.9	0.707	3.142	39.2	191.1	---	5.364	-0.85	0.267	66.0	190.5	-1.4	0.238
4-2250	4-3510	0.433	336.3	-11.2	-0.43	1.285	74.4	0.707	3.159	38.0	191.6	---	5.390	-0.90	0.269	65.3	191.2	-1.5	0.239
4-2250	4-3530	0.426	337.4	-10.6	-0.37	1.286	74.9	0.706	3.175	36.7	192.0	---	5.417	-0.96	0.271	64.6	192.0	-1.6	0.241
4-2250	4-3550	0.419	338.6	-10.0	-0.30	1.286	75.4	0.706	3.191	35.5	192.5	---	5.444	-1.03	0.273	63.9	192.8	-1.7	0.242
4-2250	4-3570	0.413	339.7	-9.2	-0.21	1.287	75.9	0.706	3.207	34.2	192.9	---	5.471	-1.11	0.275	63.2	193.6	-1.8	0.244
4-2250	4-3590	0.407	340.9	-8.5	-0.12	1.288	76.5	0.706	3.224	32.9	193.3	---	5.499	-1.20	0.277	62.6	194.5	-2.0	0.245
4-2250	4-3610	0.401	342.1	-7.6	-0.00	1.288	77.0	0.706	3.240	31.6	193.7	---	5.527	-1.30	0.279	62.0	195.4	-2.1	0.247
4-2250	4-3630	0.395	343.3	-6.6	0.13	1.289	77.5	0.706	3.257	30.4	194.1	---	5.556	-1.43	0.281	61.4	196.3	-2.3	0.248
4-2250	4-3650	0.389	344.5	-5.6	0.30	1.290	78.0	0.706	3.274	29.1	194.5	---	5.584	-1.59	0.283	60.9	197.3	-2.5	0.249
4-2250	4-3670	0.383	345.6	-4.3	0.51	1.290	78.5	0.706	3.291	27.8	194.9	---	5.613	-1.79	0.285	60.3	198.3	-2.7	0.251
4-2250	4-3690	0.378	346.7	-2.9	0.77	1.291	79.1	0.706	3.307	26.5	195.2	---	5.643	-2.05	0.286	59.8	199.3	-3.0	0.252
4-2250	4-3710	0.373	347.7	-1.1	1.13	1.291	79.6	0.706	3.324	25.2	195.6	---	5.672	-2.40	0.288	59.3	200.3	-3.4	0.254
4-2250	4-3730	0.368	348.5	1.2	1.63	1.292	80.1	0.707	3.341	23.9	195.9	---	5.702	-2.90	0.290	58.8	201.3	-3.9	0.255
4-2250	4-3750	0.365	348.9	4.3	2.38	1.293	80.7	0.707	3.358	22.6	196.3	---	5.732	-3.65	0.291	58.3	202.4	-4.7	0.257
4-2250	4-3770	0.364	348.6	9.2	3.66	1.293	81.2	0.707	3.374	21.3	196.6	---	5.762	-4.92	0.293	57.9	203.4	-5.9	0.259
4-2250	4-3790	0.373	346.0	18.0	6.29	1.294	81.7	0.708	3.391	20.0	197.0	---	5.792	-7.54	0.295	57.4	204.6	-8.4	0.262
4-2250	4-3810	0.452	332.1	39.0	14.72	1.294	82.2	0.708	3.408	18.7	197.3	---	5.822	-15.97	0.296	57.0	206.5	-15.7	0.276
4-2250	4-3830	1.208	149.3	-75.5	-62.02	1.295	82.9	0.709	3.425	17.1	197.6	---	5.852	60.78	0.298	56.6	222.5	28.8	0.423
4-2250	4-3850	0.430	19.6	-40.5	-13.50	1.295	83.4	0.710	3.442	16.0	197.9	---	5.884	12.26	0.299	56.1	209.4	9.7	0.272
4-2260	4-2580	0.897	316.6	-18.5	-1.49	1.395	50.7	0.98643	5.325	79.3	140.2	---	---	-0.69	0.617	159.0	209.6	-1.8	0.625
4-2260	4-2600	0.878	315.8	-18.7	-1.47	1.374	50.9	0.95112	4.214	80.7	143.4	---	---	-0.68	0.568	157.3	209.1	-1.8	0.578
4-2260	4-2620	0.862	315.2	-18.8	-1.44	1.357	51.1	0.922	7.705	81.8	146.4	---	---	-0.67	0.524	155.6	208.6	-1.7	0.536
4-2260	4-2640	0.848	314.8	-18.9	-1.42	1.342	51.3	0.899	5.915	82.7	149.1	---	---	-0.66	0.485	153.7	208.0	-1.7	0.499
4-2260	4-2660	0.836	314.4	-19.0	-1.40	1.330	51.6	0.880	4.964	83.3	151.6	---	---	-0.65	0.450	151.7	207.4	-1.7	0.466
4-2260	4-2680	0.825	314.2	-19.1	-1.38	1.320	51.8	0.864	4.381	83.8	153.9	---	---	-0.64	0.419	149.5	206.6	-1.7	0.437
4-2260	4-2700	0.814	314.0	-19.1	-1.36	1.311	52.1	0.851	3.991	84.1	156.0	---	---	-0.63	0.392	147.2	205.8	-1.7	0.410
4-2260	4-2720	0.805	313.9	-19.1	-1.33	1.304	52.4	0.839	3.716	84.3	158.0	---	---	-0.63	0.367	144.8	204.9	-1.6	0.387
4-2260	4-2740	0.796	313.9	-19.1	-1.31	1.298	52.7	0.829	3.514	84.3	159.8	---	---	-0.62	0.345	142.2	204.0	-1.6	0.366
4-2260	4-2760	0.787	314.0	-19.1	-1.29	1.293	53.0	0.820	3.362	84.1	161.5	---	---	-0.62	0.326	139.5	203.0	-1.6	0.348

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2260	4-2780	0.779	314.1	-19.1	-1.27	1.289	53.4	0.813	3.245	83.9	163.1	---	---	-0.61	0.309	136.7	201.9	-1.5	0.331
4-2260	4-2800	0.770	314.3	-19.0	-1.25	1.286	53.7	0.806	3.153	83.6	164.6	---	---	-0.61	0.294	133.7	200.8	-1.5	0.317
4-2260	4-2820	0.762	314.5	-18.9	-1.23	1.283	54.1	0.800	3.081	83.2	166.0	---	---	-0.61	0.280	130.7	199.6	-1.5	0.304
4-2260	4-2840	0.754	314.8	-18.9	-1.21	1.281	54.4	0.794	3.024	82.7	167.4	---	---	-0.61	0.269	127.6	198.4	-1.4	0.292
4-2260	4-2860	0.747	315.1	-18.8	-1.19	1.279	54.8	0.789	2.979	82.1	168.6	---	---	-0.60	0.259	124.5	197.2	-1.4	0.282
4-2260	4-2880	0.739	315.4	-18.7	-1.18	1.277	55.2	0.784	2.944	81.5	169.8	---	---	-0.60	0.251	121.3	196.0	-1.3	0.273
4-2260	4-2900	0.731	315.8	-18.6	-1.16	1.276	55.6	0.780	2.916	80.8	170.9	---	---	-0.60	0.244	118.1	194.8	-1.3	0.266
4-2260	4-2920	0.723	316.2	-18.4	-1.14	1.275	56.0	0.776	2.894	80.0	172.0	---	---	-0.60	0.238	115.0	193.7	-1.2	0.259
4-2260	4-2940	0.716	316.7	-18.3	-1.12	1.274	56.4	0.772	2.878	79.2	173.0	---	---	-0.60	0.233	111.8	192.6	-1.2	0.253
4-2260	4-2960	0.708	317.1	-18.2	-1.10	1.273	56.9	0.769	2.866	78.4	174.0	---	---	-0.61	0.230	108.8	191.5	-1.1	0.248
4-2260	4-2980	0.700	317.6	-18.0	-1.08	1.273	57.3	0.766	2.858	77.5	175.0	---	---	-0.61	0.227	105.8	190.5	-1.1	0.244
4-2260	4-3000	0.693	318.1	-17.9	-1.06	1.273	57.8	0.763	2.854	76.6	175.9	---	---	-0.61	0.225	102.9	189.6	-1.1	0.241
4-2260	4-3020	0.685	318.6	-17.7	-1.04	1.273	58.2	0.760	2.851	75.7	176.7	---	---	-0.61	0.223	100.2	188.7	-1.0	0.238
4-2260	4-3040	0.677	319.2	-17.5	-1.02	1.273	58.7	0.757	2.852	74.7	177.6	---	---	-0.62	0.223	97.5	187.9	-1.0	0.236
4-2260	4-3060	0.669	319.7	-17.4	-1.00	1.273	59.1	0.754	2.854	73.7	178.4	---	---	-0.62	0.223	95.0	187.2	-1.0	0.234
4-2260	4-3080	0.662	320.3	-17.2	-0.98	1.273	59.6	0.752	2.858	72.7	179.2	---	---	-0.63	0.223	92.6	186.6	-1.0	0.233
4-2260	4-3100	0.654	320.9	-17.0	-0.96	1.273	60.1	0.750	2.864	71.7	179.9	---	---	-0.63	0.224	90.3	186.1	-0.9	0.232
4-2260	4-3120	0.646	321.5	-16.8	-0.94	1.274	60.5	0.747	2.871	70.6	180.6	---	5.016	-0.64	0.225	88.1	185.6	-0.9	0.231
4-2260	4-3140	0.638	322.2	-16.6	-0.92	1.274	61.0	0.745	2.879	69.5	181.3	---	5.025	-0.65	0.226	86.1	185.3	-0.9	0.231
4-2260	4-3160	0.630	322.8	-16.4	-0.90	1.274	61.5	0.743	2.888	68.5	182.0	---	5.035	-0.66	0.227	84.2	185.0	-0.9	0.230
4-2260	4-3180	0.622	323.5	-16.1	-0.87	1.275	62.0	0.741	2.898	67.3	182.7	---	5.047	-0.67	0.229	82.4	184.8	-0.9	0.231
4-2260	4-3200	0.614	324.2	-15.9	-0.85	1.275	62.5	0.740	2.909	66.2	183.3	---	5.061	-0.68	0.231	80.7	184.7	-0.9	0.231
4-2260	4-3220	0.607	324.9	-15.6	-0.83	1.276	63.0	0.738	2.921	65.1	184.0	---	5.076	-0.69	0.233	79.1	184.7	-0.9	0.231
4-2260	4-3240	0.599	325.6	-15.4	-0.80	1.277	63.5	0.736	2.934	63.9	184.6	---	5.093	-0.70	0.235	77.6	184.7	-0.9	0.232
4-2260	4-3260	0.591	326.3	-15.1	-0.78	1.277	64.0	0.735	2.947	62.7	185.2	---	5.111	-0.71	0.237	76.2	184.9	-1.0	0.233
4-2260	4-3280	0.583	327.1	-14.8	-0.75	1.278	64.5	0.733	2.960	61.6	185.7	---	5.130	-0.73	0.240	74.9	185.1	-1.0	0.233
4-2260	4-3300	0.575	327.9	-14.5	-0.72	1.278	65.0	0.732	2.974	60.4	186.3	---	5.150	-0.74	0.242	73.6	185.3	-1.0	0.234
4-2260	4-3320	0.567	328.6	-14.2	-0.69	1.279	65.5	0.730	2.989	59.2	186.8	---	5.171	-0.76	0.244	72.4	185.6	-1.1	0.235
4-2260	4-3340	0.559	329.4	-13.9	-0.66	1.280	66.0	0.729	3.004	58.0	187.4	---	5.193	-0.78	0.247	71.3	186.0	-1.1	0.236
4-2260	4-3360	0.551	330.3	-13.6	-0.63	1.280	66.5	0.728	3.019	56.8	187.9	---	5.216	-0.80	0.249	70.3	186.5	-1.1	0.237
4-2260	4-3380	0.544	331.1	-13.2	-0.60	1.281	67.0	0.727	3.034	55.5	188.4	---	5.239	-0.82	0.251	69.3	186.9	-1.2	0.238
4-2260	4-3400	0.536	331.9	-12.9	-0.56	1.282	67.5	0.725	3.050	54.3	188.9	---	5.263	-0.85	0.254	68.4	187.5	-1.2	0.240
4-2260	4-3420	0.528	332.8	-12.5	-0.53	1.282	68.0	0.724	3.066	53.1	189.4	---	5.287	-0.87	0.256	67.5	188.1	-1.3	0.241
4-2260	4-3440	0.520	333.7	-12.1	-0.49	1.283	68.5	0.723	3.082	51.8	189.9	---	5.312	-0.90	0.258	66.6	188.7	-1.3	0.242
4-2260	4-3460	0.513	334.6	-11.7	-0.45	1.284	69.1	0.723	3.098	50.6	190.3	---	5.337	-0.93	0.260	65.8	189.4	-1.4	0.243
4-2260	4-3480	0.505	335.5	-11.2	-0.40	1.284	69.6	0.722	3.115	49.3	190.8	---	5.363	-0.97	0.263	65.1	190.1	-1.5	0.244
4-2260	4-3500	0.497	336.4	-10.8	-0.35	1.285	70.1	0.721	3.132	48.0	191.2	---	5.389	-1.01	0.265	64.4	190.8	-1.6	0.246
4-2260	4-3520	0.490	337.4	-10.3	-0.30	1.286	70.6	0.720	3.148	46.8	191.7	---	5.416	-1.05	0.267	63.7	191.6	-1.6	0.247
4-2260	4-3540	0.482	338.3	-9.8	-0.24	1.286	71.2	0.719	3.165	45.5	192.1	---	5.443	-1.09	0.269	63.0	192.4	-1.7	0.248
4-2260	4-3560	0.475	339.3	-9.2	-0.18	1.287	71.7	0.719	3.182	44.2	192.5	---	5.470	-1.15	0.271	62.4	193.3	-1.8	0.249
4-2260	4-3580	0.467	340.3	-8.6	-0.12	1.288	72.2	0.718	3.199	43.0	192.9	---	5.498	-1.20	0.273	61.8	194.1	-1.9	0.250
4-2260	4-3600	0.460	341.3	-8.0	-0.04	1.288	72.7	0.718	3.217	41.7	193.3	---	5.526	-1.27	0.275	61.2	195.0	-2.0	0.252
4-2260	4-3620	0.453	342.4	-7.4	0.04	1.289	73.3	0.717	3.234	40.4	193.7	---	5.554	-1.34	0.277	60.7	196.0	-2.1	0.253
4-2260	4-3640	0.446	343.4	-6.7	0.13	1.289	73.8	0.717	3.251	39.1	194.1	---	5.582	-1.43	0.279	60.1	196.9	-2.3	0.254
4-2260	4-3660	0.439	344.5	-5.9	0.24	1.290	74.3	0.717	3.268	37.8	194.5	---	5.611	-1.52	0.281	59.6	197.9	-2.4	0.255
4-2260	4-3680	0.432	345.5	-5.1	0.36	1.291	74.9	0.716	3.286	36.5	194.9	---	5.640	-1.63	0.283	59.1	198.9	-2.5	0.257
4-2260	4-3700	0.425	346.6	-4.2	0.50	1.291	75.4	0.716	3.303	35.2	195.2	---	5.669	-1.76	0.285	58.7	199.9	-2.7	0.258
4-2260	4-3720	0.419	347.6	-3.2	0.66	1.292	75.9	0.716	3.320	33.9	195.6	---	5.698	-1.91	0.287	58.2	200.9	-2.9	0.259
4-2260	4-3740	0.412	348.7	-2.1	0.85	1.293	76.5	0.716	3.338	32.6	195.9	---	5.727	-2.10	0.289	57.8	202.0	-3.1	0.260
4-2260	4-3760	0.406	349.7	-0.8	1.08	1.293	77.0	0.716	3.355	31.3	196.3	---	5.757	-2.32	0.291	57.3	203.1	-3.4	0.261
4-2260	4-3780	0.400	350.7	0.7	1.37	1.294	77.5	0.716	3.372	30.0	196.6	---	5.787	-2.60	0.292	56.9	204.1	-3.7	0.263
4-2260	4-3800	0.395	351.5	2.4	1.73	1.294	78.1	0.716	3.390	28.7	196.9	---	5.816	-2.95	0.294	56.5	205.2	-4.1	0.264
4-2260	4-3820	0.390	352.3	4.5	2.21	1.295	78.6	0.716	3.407	27.4	197.3	---	5.846	-3.42	0.296	56.1	206.3	-4.5	0.265
4-2260	4-3840	0.386	352.8	7.2	2.86	1.296	79.1	0.716	3.424	26.1	197.6	---	5.877	-4.06	0.297	55.7	207.5	-5.2	0.267
4-2260	4-3860	0.383	352.8	10.8	3.81	1.296	79.7	0.716	3.442	24.8	197.9	---	5.907	-5.01	0.299	55.3	208.6	-6.1	0.268
4-2270	4-2590	1.009	318.5	-17.7	-1.65	1.384	43.8	0.973	17.663	94.0	146.3	---	---	-1.00	0.589	160.6	207.6	-1.7	0.617
4-2270	4-2610	0.989	318.0	-17.8	-1.61	1.364	44.2	0.947	8.952	95.0	149.1	---	---	-0.97	0.541	158.9	207.0	-1.7	0.571
4-2270	4-2630	0.971	317.7	-17.9	-1.57	1.348	44.6	0.925	6.390	95.7	151.6	---	---	-0.95	0.497	157.1	206.4	-1.7	0.530
4-2270	4-2650	0.955	317.4	-17.9	-1.54	1.334	45.0	0.907	5.178	96.2	154.0	---	---	-0.93	0.459	155.1	205.7	-1.7	0.495
4-2270	4-2670	0.940	317.3	-18.0	-1.50	1.323	45.4	0.893	4.480	96.5	156.1	---	---	-0.91	0.425	153.0	204.9	-1.7	0.463
4-2270	4-2690	0.927	317.2	-18.0	-1.47	1.313	45.8	0.880	4.031	96.7	158.1	---	---	-0.90	0.395	150.8	204.1	-1.7	0.435
4-2270	4-2710	0.915	317.3	-18.0	-1.44	1.306	46.2	0.869	3.723	96.6	159.9	---	---	-0.88	0.368	148.4	203.2	-1.6	0.410
4-2270	4-2730	0.903	317.3	-17.9	-1.41	1.299	46.6	0.859	3.501	96.5	161.5	---	---	-0.87	0.344	145.8	202.2	-1.6	0.388
4-2270	4-2750	0.893	317.5	-17.9	-1.38	1.294	47.0	0.851	3.336	96.2	163.1	---	---	-0.86	0.322	143.1	201.2	-1.6	0.368
4-2270	4-2770	0.882	317.6	-17.8	-1.35	1.289	47.5	0.843	3.211	95.8	164.6	---	---	-0.84	0.303	140.2	200.1	-1.5	0.350
4-2270	4-2790	0.872	317.9	-17.7	-1.32	1.285	47.9	0.837	3.114	95.4	165.9	---	---	-0.83	0.287	137.2	199.0	-1.5	0.335
4-2270	4-2810	0.863	318.1	-17.6	-1.29	1.282	48.3	0.830	3.038	94.8	167.2	---	---	-0.83	0.272	134.0	197.9	-1.4	0.321
4-2270	4-2830	0.853	318.4	-17.5	-1.26	1.280	48.8	0.825	2.979	94.2	168.4	---	---	-0.82	0.260	130.8	196.7	-1.4	0.309
4-2270	4-2850	0.844	318.8	-17.4	-1.24	1.278	49.2	0.820	2.933	93.5	169.6	---	---	-0.81	0.249	127.4	195.6	-1.4	0.298
4-2270	4-2870	0.835	319.1	-17.3	-1.21	1.276	49.7	0.815	2.896	92.8	170.7	---	---	-0.80	0.240	124.0	194.4	-1.3	0.289
4-2270	4-2890	0.826	319.5	-17.2	-1.18	1.275	50.2	0.810	2.868	92.0	171.7	---	---	-0.80	0.232	120.6	193.3	-1.3	0.281
4-2270	4-2910	0.817	319.9	-17.1	-1.16	1.273	50.7	0.806	2.846	91.2	172.7	---	---	-0.80	0.226	117.1	192.2	-1.2	0.274
4-2270	4-2930	0.808	320.3	-16.9	-1.13	1.273	51.1	0.802	2.830	90.3	173.6	---	---	-0.79	0.220	113.7	191.1	-1.2	0.268
4-2270	4-2950	0.800	320.8	-16.8	-1.11	1.272	51.6	0.798	2.818	89.4	174.5	---	---	-0.79	0.217	110.3	190.1	-1.2	0.263
4-2270	4-2970	0.791	321.3	-16.6	-1.08	1.272	52.1	0.795	2.811	88.5	175.4	---	---	-0.79	0.214	107.0	189.2	-1.1	0.258
4-2270	4-2990	0.782	321.7	-16.5	-1.06	1.272	52.6	0.791	2.806	87.5	176.2	---	---	-0.79	0.212	103.9	188.3	-1.1	0.255
4-2270	4-3010	0.774	322.2	-16.3	-1.03	1.271	53.1	0.788	2.805	86.5	177.0	---	---	-0.79	0.210	100.8	187.5	-1.0	0.252
4-2270	4-3030	0.765	322.8	-16.1	-1.01	1.271	53.6	0.785	2.805	85.5	177.8	---	---	-0.79	0.210	97.9	186.8	-1.0	0.249
4-2270	4-3050	0.756	323.3	-15.9	-0.98	1.272	54.1	0.782	2.808	84.4	178.6	---	---	-0.79	0.210	95.1	186.1	-1.0	0.247
4-2270	4-3070	0.748	323.8	-15.8	-0.96	1.272	54.6	0.779	2.813	83.3	179.3	---	---	-0.79	0.210	92.5	185.6	-1.0	0.245

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2270	4-309C	0.739	324.4	-15.6	-0.93	1.272	55.1	0.776	2.819	82.3	180.0	---	5.008	-0.79	0.211	90.0	185.1	-1.0	0.244
4-2270	4-311C	0.730	325.0	-15.4	-0.91	1.273	55.7	0.774	2.827	81.2	180.7	---	5.014	-0.80	0.213	87.7	184.7	-1.0	0.243
4-2270	4-313C	0.722	325.6	-15.2	-0.88	1.273	56.2	0.771	2.836	80.0	181.3	---	5.023	-0.80	0.214	85.5	184.4	-0.9	0.243
4-2270	4-315C	0.713	326.2	-14.9	-0.86	1.273	56.7	0.769	2.846	78.9	182.0	---	5.033	-0.81	0.216	83.4	184.2	-0.9	0.242
4-2270	4-317C	0.705	326.8	-14.7	-0.83	1.274	57.2	0.766	2.857	77.7	182.6	---	5.046	-0.81	0.218	81.5	184.1	-0.9	0.242
4-2270	4-319C	0.696	327.4	-14.5	-0.81	1.275	57.7	0.764	2.868	76.6	183.2	---	5.060	-0.82	0.221	79.7	184.0	-1.0	0.242
4-2270	4-321C	0.688	328.0	-14.2	-0.78	1.275	58.3	0.762	2.881	75.4	183.8	---	5.076	-0.83	0.223	78.0	184.0	-1.0	0.242
4-2270	4-323C	0.679	328.7	-14.0	-0.75	1.276	58.8	0.760	2.894	74.2	184.4	---	5.093	-0.84	0.225	76.5	184.1	-1.0	0.243
4-2270	4-325C	0.670	329.3	-13.7	-0.72	1.276	59.3	0.758	2.908	73.0	185.0	---	5.111	-0.85	0.228	75.0	184.3	-1.0	0.243
4-2270	4-327C	0.662	330.0	-13.5	-0.70	1.277	59.8	0.756	2.922	71.8	185.5	---	5.130	-0.86	0.231	73.6	184.5	-1.0	0.244
4-2270	4-329C	0.653	330.7	-13.2	-0.67	1.278	60.4	0.754	2.937	70.6	186.1	---	5.151	-0.87	0.233	72.4	184.8	-1.1	0.244
4-2270	4-331C	0.645	331.4	-12.9	-0.64	1.278	60.9	0.752	2.952	69.4	186.6	---	5.172	-0.88	0.236	71.2	185.1	-1.1	0.245
4-2270	4-333C	0.636	332.1	-12.6	-0.61	1.279	61.4	0.750	2.967	68.1	187.1	---	5.194	-0.90	0.239	70.0	185.6	-1.1	0.246
4-2270	4-335C	0.628	332.8	-12.3	-0.57	1.280	62.0	0.749	2.983	66.9	187.6	---	5.216	-0.92	0.241	69.0	186.0	-1.2	0.247
4-2270	4-337C	0.619	333.5	-12.0	-0.54	1.281	62.5	0.747	2.999	65.7	188.1	---	5.240	-0.93	0.244	68.0	186.5	-1.2	0.248
4-2270	4-339C	0.611	334.2	-11.7	-0.51	1.281	63.0	0.745	3.016	64.4	188.6	---	5.264	-0.95	0.247	67.1	187.1	-1.2	0.249
4-2270	4-341C	0.602	335.0	-11.4	-0.47	1.282	63.6	0.744	3.032	63.2	189.1	---	5.288	-0.97	0.249	66.2	187.7	-1.3	0.250
4-2270	4-343C	0.594	335.7	-11.0	-0.44	1.283	64.1	0.743	3.049	61.9	189.5	---	5.313	-0.99	0.252	65.4	188.3	-1.4	0.251
4-2270	4-345C	0.585	336.5	-10.6	-0.40	1.283	64.7	0.741	3.066	60.6	190.0	---	5.339	-1.02	0.254	64.6	189.0	-1.4	0.251
4-2270	4-347C	0.577	337.3	-10.3	-0.36	1.284	65.2	0.740	3.083	59.4	190.4	---	5.365	-1.04	0.257	63.8	189.7	-1.5	0.252
4-2270	4-349C	0.569	338.1	-9.9	-0.31	1.285	65.7	0.739	3.101	58.1	190.9	---	5.391	-1.07	0.259	63.1	190.5	-1.5	0.253
4-2270	4-351C	0.560	338.9	-9.5	-0.27	1.285	66.3	0.737	3.118	56.8	191.3	---	5.417	-1.10	0.262	62.5	191.3	-1.6	0.255
4-2270	4-353C	0.552	339.7	-9.1	-0.22	1.286	66.8	0.736	3.136	55.5	191.7	---	5.444	-1.14	0.264	61.8	192.1	-1.7	0.256
4-2270	4-355C	0.544	340.6	-8.6	-0.17	1.287	67.3	0.735	3.153	54.3	192.1	---	5.472	-1.17	0.266	61.2	192.9	-1.8	0.257
4-2270	4-357C	0.536	341.4	-8.1	-0.12	1.288	67.9	0.734	3.171	53.0	192.5	---	5.499	-1.21	0.269	60.7	193.8	-1.8	0.258
4-2270	4-359C	0.528	342.3	-7.7	-0.06	1.288	68.4	0.733	3.189	51.7	192.9	---	5.527	-1.26	0.271	60.1	194.7	-1.9	0.259
4-2270	4-361C	0.520	343.2	-7.2	-0.00	1.289	69.0	0.732	3.207	50.4	193.3	---	5.555	-1.30	0.273	59.6	195.6	-2.0	0.260
4-2270	4-363C	0.512	344.1	-6.6	0.07	1.290	69.5	0.731	3.224	49.1	193.7	---	5.583	-1.36	0.275	59.1	196.6	-2.1	0.261
4-2270	4-365C	0.504	345.0	-6.1	0.14	1.290	70.0	0.731	3.242	47.8	194.1	---	5.612	-1.42	0.277	58.6	197.6	-2.2	0.262
4-2270	4-367C	0.496	345.9	-5.5	0.21	1.291	70.6	0.730	3.260	46.5	194.4	---	5.640	-1.48	0.280	58.2	198.6	-2.3	0.263
4-2270	4-369C	0.488	346.8	-4.8	0.30	1.292	71.1	0.729	3.278	45.2	194.8	---	5.669	-1.55	0.282	57.7	199.6	-2.4	0.264
4-2270	4-371C	0.480	347.8	-4.2	0.39	1.292	71.7	0.729	3.296	43.9	195.2	---	5.698	-1.64	0.284	57.3	200.6	-2.6	0.264
4-2270	4-373C	0.473	348.7	-3.5	0.50	1.293	72.2	0.728	3.314	42.6	195.5	---	5.727	-1.73	0.285	56.9	201.6	-2.7	0.265
4-2270	4-375C	0.465	349.7	-2.7	0.61	1.293	72.7	0.728	3.332	41.3	195.8	---	5.756	-1.83	0.287	56.5	202.7	-2.8	0.266
4-2270	4-377C	0.458	350.6	-1.9	0.74	1.294	73.3	0.727	3.350	40.0	196.2	---	5.786	-1.95	0.289	56.1	203.8	-3.0	0.267
4-2270	4-379C	0.451	351.6	-1.0	0.89	1.295	73.8	0.727	3.368	38.7	196.5	---	5.815	-2.08	0.291	55.7	204.9	-3.2	0.268
4-2270	4-381C	0.444	352.6	0.0	1.06	1.295	74.4	0.726	3.385	37.4	196.8	---	5.845	-2.24	0.293	55.4	206.0	-3.4	0.269
4-2270	4-383C	0.437	353.5	1.1	1.25	1.296	74.9	0.726	3.403	36.1	197.2	---	5.875	-2.43	0.295	55.0	207.1	-3.6	0.270
4-2270	4-385C	0.430	354.4	2.3	1.49	1.296	75.5	0.726	3.421	34.8	197.5	---	5.905	-2.65	0.296	54.7	208.3	-3.8	0.271
4-2270	4-387C	0.424	355.3	3.7	1.76	1.297	76.0	0.726	3.439	33.5	197.8	---	5.935	-2.91	0.298	54.3	209.4	-4.1	0.272
4-2280	4-260C	1.126	321.1	-16.7	-1.89	1.375	36.8	0.969	11.535	108.9	152.5	---	---	-1.38	0.563	162.6	205.4	-1.7	0.613
4-2280	4-262C	1.102	320.9	-16.7	-1.83	1.356	37.3	0.951	7.210	109.4	154.8	---	---	-1.33	0.515	161.0	204.7	-1.7	0.568
4-2280	4-264C	1.082	320.8	-16.7	-1.77	1.340	37.9	0.935	5.529	109.6	156.8	---	---	-1.29	0.472	159.1	204.0	-1.7	0.529
4-2280	4-266C	1.064	320.8	-16.7	-1.72	1.327	38.5	0.922	4.646	109.7	158.7	---	---	-1.26	0.434	157.1	203.2	-1.6	0.495
4-2280	4-268C	1.047	320.8	-16.7	-1.67	1.317	39.0	0.910	4.109	109.6	160.5	---	---	-1.22	0.401	155.0	202.4	-1.6	0.464
4-2280	4-270C	1.032	320.9	-16.7	-1.62	1.308	39.6	0.900	3.752	109.3	162.0	---	---	-1.19	0.371	152.7	201.4	-1.6	0.437
4-2280	4-272C	1.018	321.1	-16.6	-1.57	1.300	40.1	0.892	3.502	109.0	163.5	---	---	-1.17	0.344	150.2	200.5	-1.6	0.413
4-2280	4-274C	1.005	321.3	-16.5	-1.53	1.294	40.6	0.884	3.319	108.5	164.9	---	---	-1.14	0.320	147.5	199.4	-1.5	0.392
4-2280	4-276C	0.992	321.5	-16.4	-1.48	1.289	41.2	0.876	3.183	108.0	166.2	---	---	-1.12	0.299	144.6	198.4	-1.5	0.373
4-2280	4-278C	0.980	321.8	-16.3	-1.44	1.285	41.7	0.870	3.078	107.3	167.4	---	---	-1.10	0.280	141.5	197.3	-1.4	0.357
4-2280	4-280C	0.969	322.1	-16.2	-1.40	1.282	42.3	0.864	2.998	106.7	168.5	---	---	-1.08	0.264	138.2	196.2	-1.4	0.342
4-2280	4-282C	0.957	322.4	-16.1	-1.37	1.279	42.8	0.858	2.935	105.9	169.6	---	---	-1.06	0.250	134.8	195.1	-1.4	0.329
4-2280	4-284C	0.947	322.8	-16.0	-1.33	1.277	43.4	0.853	2.886	105.1	170.6	---	---	-1.04	0.238	131.2	193.9	-1.3	0.318
4-2280	4-286C	0.936	323.2	-15.9	-1.29	1.275	43.9	0.848	2.848	104.2	171.6	---	---	-1.03	0.227	127.6	192.8	-1.3	0.308
4-2280	4-288C	0.926	323.6	-15.7	-1.26	1.274	44.5	0.843	2.819	103.3	172.5	---	---	-1.02	0.219	123.8	191.8	-1.2	0.299
4-2280	4-290C	0.916	324.0	-15.6	-1.22	1.272	45.0	0.839	2.796	102.4	173.4	---	---	-1.00	0.212	120.0	190.7	-1.2	0.292
4-2280	4-292C	0.906	324.4	-15.4	-1.19	1.272	45.6	0.834	2.780	101.5	174.2	---	---	-0.99	0.206	116.2	189.7	-1.2	0.285
4-2280	4-294C	0.896	324.9	-15.3	-1.16	1.271	46.1	0.830	2.768	100.5	175.1	---	---	-0.98	0.202	112.5	188.8	-1.1	0.280
4-2280	4-296C	0.886	325.3	-15.1	-1.13	1.271	46.7	0.827	2.761	99.4	175.9	---	---	-0.98	0.198	108.8	187.9	-1.1	0.275
4-2280	4-298C	0.876	325.8	-14.9	-1.09	1.270	47.2	0.823	2.757	98.4	176.6	---	---	-0.97	0.196	105.2	187.1	-1.1	0.271
4-2280	4-300C	0.867	326.3	-14.7	-1.06	1.270	47.8	0.819	2.755	97.3	177.4	---	---	-0.96	0.195	101.8	186.4	-1.0	0.267
4-2280	4-302C	0.857	326.8	-14.6	-1.03	1.270	48.3	0.816	2.756	96.2	178.1	---	---	-0.96	0.195	98.5	185.7	-1.0	0.265
4-2280	4-304C	0.848	327.3	-14.4	-1.00	1.271	48.9	0.812	2.760	95.1	178.8	---	---	-0.96	0.195	95.4	185.1	-1.0	0.262
4-2280	4-306C	0.838	327.9	-14.2	-0.97	1.271	49.5	0.809	2.765	94.0	179.4	---	---	-0.95	0.196	92.4	184.6	-1.0	0.260
4-2280	4-308C	0.829	328.4	-14.0	-0.94	1.271	50.0	0.806	2.772	92.8	180.1	---	5.006	-0.95	0.197	89.7	184.2	-1.0	0.259
4-2280	4-310C	0.819	328.9	-13.8	-0.91	1.272	50.6	0.803	2.780	91.7	180.7	---	5.012	-0.95	0.199	87.1	183.9	-0.9	0.258
4-2280	4-312C	0.810	329.5	-13.6	-0.88	1.272	51.1	0.800	2.789	90.5	181.3	---	5.021	-0.95	0.201	84.7	183.7	-0.9	0.257
4-2280	4-314C	0.801	330.1	-13.3	-0.85	1.273	51.7	0.797	2.800	89.3	181.9	---	5.032	-0.95	0.203	82.5	183.5	-0.9	0.256
4-2280	4-316C	0.791	330.6	-13.1	-0.82	1.273	52.3	0.794	2.812	88.1	182.5	---	5.045	-0.95	0.206	80.4	183.4	-0.9	0.256
4-2280	4-318C	0.782	331.2	-12.9	-0.79	1.274	52.8	0.792	2.824	86.9	183.1	---	5.059	-0.96	0.208	78.5	183.4	-0.9	0.255
4-2280	4-320C	0.773	331.8	-12.7	-0.76	1.274	53.4	0.789	2.837	85.7	183.7	---	5.075	-0.96	0.211	76.7	183.4	-1.0	0.255
4-2280	4-322C	0.763	332.4	-12.4	-0.73	1.275	53.9	0.786	2.851	84.5	184.2	---	5.093	-0.96	0.214	75.0	183.6	-1.0	0.255
4-2280	4-324C	0.754	333.0	-12.2	-0.70	1.276	54.5	0.784	2.865	83.3	184.7	---	5.111	-0.97	0.217	73.5	183.8	-1.0	0.256
4-2280	4-326C	0.745	333.6	-11.9	-0.67	1.277	55.1	0.781	2.880	82.0	185.3	---	5.131	-0.98	0.220	72.1	184.0	-1.0	0.256
4-2280	4-328C	0.736	334.2	-11.7	-0.64	1.277	55.6	0.779	2.896	80.8	185.8	---	5.152	-0.98	0.223	70.8	184.3	-1.0	0.256
4-2280	4-330C	0.727	334.8	-11.4	-0.61	1.278	56.2	0.777	2.911	79.5	186.3	---	5.173	-0.99	0.226	69.5	184.7	-1.1	0.257
4-2280	4-332C	0.717	335.5	-11.1	-0.58	1.279	56.8	0.775	2.928	78.3	186.8	---	5.195	-1.00	0.229	68.4	185.1	-1.1	0.257
4-2280	4-334C	0.708	336.1	-10.8	-0.55	1.279	57.3	0.773	2.944	77.0	187.3	---	5.218	-1.01	0.232	67.3	185.6	-1.1	0.258
4-2280	4-336C	0.699	336.8	-10.6	-0.51	1.280	57.9	0.770	2.961	75.8	187.7	---	5.242	-1.02	0.236	66.3	186.1	-1.2	0.259
4-2280	4-338C	0.690	337.4	-10.3	-0.48	1.281	58.4	0.768	2.978	74.5	188.2	---	5.266	-1.04	0.238	65.4	186.7	-1.2	0.259

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2280	4-340C	0.681	338.1	-10.0	-0.44	1.282	59.0	0.766	2.995	73.2	188.7	---	5.291	-1.05	0.241	64.5	187.3	-1.3	0.260
4-2280	4-342C	0.672	338.8	-9.6	-0.41	1.283	59.6	0.765	3.013	72.0	189.1	---	5.316	-1.07	0.244	63.7	188.0	-1.3	0.261
4-2280	4-344C	0.663	339.5	-9.3	-0.37	1.283	60.1	0.763	3.030	70.7	189.6	---	5.342	-1.08	0.247	62.9	188.7	-1.4	0.262
4-2280	4-346C	0.654	340.2	-9.0	-0.33	1.284	60.7	0.761	3.048	69.4	190.0	---	5.368	-1.10	0.250	62.2	189.4	-1.4	0.262
4-2280	4-348C	0.645	340.9	-8.6	-0.30	1.285	61.2	0.759	3.066	68.1	190.4	---	5.394	-1.12	0.253	61.5	190.2	-1.5	0.263
4-2280	4-350C	0.636	341.6	-8.3	-0.25	1.285	61.8	0.758	3.084	66.8	190.8	---	5.421	-1.15	0.255	60.9	191.0	-1.6	0.264
4-2280	4-352C	0.627	342.3	-7.9	-0.21	1.286	62.3	0.756	3.102	65.5	191.2	---	5.448	-1.17	0.258	60.3	191.8	-1.6	0.265
4-2280	4-354C	0.618	343.0	-7.5	-0.17	1.287	62.9	0.755	3.121	64.2	191.6	---	5.475	-1.20	0.261	59.7	192.6	-1.7	0.266
4-2280	4-356C	0.610	343.8	-7.2	-0.12	1.288	63.5	0.753	3.139	62.9	192.0	---	5.503	-1.22	0.263	59.2	193.5	-1.8	0.266
4-2280	4-358C	0.601	344.5	-6.8	-0.08	1.288	64.0	0.752	3.157	61.7	192.4	---	5.531	-1.25	0.266	58.7	194.4	-1.8	0.267
4-2280	4-360C	0.592	345.3	-6.3	-0.03	1.289	64.6	0.750	3.176	60.4	192.8	---	5.559	-1.29	0.268	58.2	195.3	-1.9	0.268
4-2280	4-362C	0.584	346.1	-5.9	0.03	1.290	65.1	0.749	3.194	59.1	193.2	---	5.587	-1.32	0.270	57.7	196.3	-2.0	0.269
4-2280	4-364C	0.575	346.9	-5.6	0.08	1.291	65.7	0.748	3.213	57.8	193.6	---	5.615	-1.36	0.273	57.3	197.3	-2.1	0.269
4-2280	4-366C	0.566	347.7	-5.0	0.14	1.291	66.2	0.747	3.231	56.5	193.9	---	5.644	-1.41	0.275	56.8	198.3	-2.2	0.270
4-2280	4-368C	0.558	348.5	-4.5	0.20	1.292	66.8	0.746	3.250	55.2	194.3	---	5.673	-1.45	0.277	56.4	199.3	-2.3	0.271
4-2280	4-370C	0.549	349.3	-4.0	0.27	1.293	67.3	0.745	3.268	53.8	194.7	---	5.701	-1.50	0.279	56.0	200.3	-2.3	0.272
4-2280	4-372C	0.541	350.1	-3.4	0.34	1.293	67.9	0.744	3.287	52.5	195.0	---	5.730	-1.56	0.282	55.7	201.4	-2.4	0.273
4-2280	4-374C	0.533	350.9	-2.9	0.42	1.294	68.4	0.743	3.305	51.2	195.3	---	5.759	-1.62	0.284	55.3	202.4	-2.6	0.273
4-2280	4-376C	0.525	351.8	-2.3	0.50	1.295	69.0	0.742	3.323	49.9	195.7	---	5.789	-1.69	0.286	55.0	203.5	-2.7	0.274
4-2280	4-378C	0.516	352.7	-1.7	0.59	1.295	69.5	0.741	3.342	48.6	196.0	---	5.818	-1.76	0.288	54.6	204.6	-2.8	0.275
4-2280	4-380C	0.508	353.5	-1.0	0.69	1.296	70.1	0.740	3.360	47.3	196.3	---	5.847	-1.85	0.290	54.3	205.7	-2.9	0.275
4-2280	4-382C	0.500	354.4	-0.3	0.79	1.296	70.6	0.739	3.379	46.0	196.7	---	5.877	-1.94	0.291	54.0	206.8	-3.0	0.276
4-2280	4-384C	0.493	355.3	0.4	0.91	1.297	71.2	0.739	3.397	44.7	197.0	---	5.906	-2.04	0.293	53.7	207.9	-3.2	0.277
4-2280	4-386C	0.485	356.2	1.2	1.04	1.298	71.7	0.738	3.415	43.4	197.3	---	5.936	-2.16	0.295	53.4	209.1	-3.3	0.278
4-2280	4-388C	0.477	357.1	2.1	1.19	1.298	72.3	0.738	3.433	42.1	197.6	---	5.966	-2.29	0.297	53.1	210.2	-3.5	0.278
4-2290	4-261C	1.244	324.4	-15.5	-2.29	1.367	29.6	0.974	8.892	123.8	158.6	---	---	-1.90	0.540	165.2	203.1	-1.6	0.615
4-2290	4-263C	1.218	324.4	-15.4	-2.18	1.349	30.3	0.961	6.170	123.6	160.3	---	---	-1.82	0.492	163.6	202.3	-1.6	0.571
4-2290	4-265C	1.195	324.5	-15.4	-2.09	1.334	31.1	0.950	4.947	123.3	161.8	---	---	-1.75	0.449	161.8	201.5	-1.6	0.533
4-2290	4-267C	1.175	324.6	-15.3	-2.00	1.321	31.8	0.940	4.260	122.9	163.2	---	---	-1.68	0.411	159.8	200.7	-1.6	0.500
4-2290	4-269C	1.156	324.8	-15.3	-1.92	1.311	32.5	0.932	3.827	122.4	164.5	---	---	-1.62	0.378	157.6	199.7	-1.5	0.470
4-2290	4-271C	1.138	325.0	-15.2	-1.85	1.303	33.2	0.924	3.533	121.8	165.7	---	---	-1.56	0.348	155.3	198.8	-1.5	0.444
4-2290	4-273C	1.122	325.3	-15.1	-1.78	1.296	33.9	0.916	3.324	121.1	166.9	---	---	-1.51	0.321	152.7	197.8	-1.5	0.421
4-2290	4-275C	1.107	325.6	-15.0	-1.71	1.291	34.6	0.910	3.170	120.3	168.0	---	---	-1.47	0.297	149.8	196.7	-1.4	0.401
4-2290	4-277C	1.093	325.9	-14.8	-1.65	1.286	35.2	0.904	3.054	119.5	169.0	---	---	-1.43	0.276	146.8	195.6	-1.4	0.383
4-2290	4-279C	1.080	326.3	-14.7	-1.59	1.282	35.9	0.898	2.965	118.6	169.9	---	---	-1.39	0.257	143.5	194.6	-1.4	0.367
4-2290	4-281C	1.066	326.7	-14.6	-1.54	1.279	36.5	0.892	2.897	117.7	170.8	---	---	-1.36	0.241	140.0	193.5	-1.3	0.353
4-2290	4-283C	1.054	327.0	-14.4	-1.49	1.276	37.2	0.887	2.844	116.8	171.7	---	---	-1.33	0.227	136.3	192.4	-1.3	0.341
4-2290	4-285C	1.042	327.5	-14.3	-1.44	1.274	37.8	0.882	2.804	115.8	172.6	---	---	-1.30	0.215	132.3	191.4	-1.2	0.330
4-2290	4-287C	1.030	327.9	-14.1	-1.39	1.273	38.5	0.877	2.772	114.8	173.4	---	---	-1.27	0.205	128.3	190.3	-1.2	0.321
4-2290	4-289C	1.018	328.3	-13.9	-1.34	1.272	39.1	0.873	2.749	113.7	174.1	---	---	-1.25	0.197	124.1	189.4	-1.2	0.313
4-2290	4-291C	1.007	328.8	-13.8	-1.30	1.271	39.7	0.868	2.731	112.6	174.9	---	---	-1.23	0.190	119.8	188.4	-1.1	0.306
4-2290	4-293C	0.996	329.2	-13.6	-1.25	1.270	40.4	0.864	2.719	111.5	175.6	---	---	-1.21	0.185	115.5	187.5	-1.1	0.299
4-2290	4-295C	0.985	329.7	-13.4	-1.21	1.270	41.0	0.860	2.711	110.4	176.3	---	---	-1.19	0.181	111.3	186.7	-1.0	0.294
4-2290	4-297C	0.974	330.2	-13.2	-1.17	1.269	41.6	0.856	2.707	109.3	177.0	---	---	-1.17	0.179	107.2	186.0	-1.0	0.290
4-2290	4-299C	0.964	330.7	-13.0	-1.13	1.269	42.2	0.852	2.705	108.1	177.6	---	---	-1.16	0.177	103.3	185.3	-1.0	0.286
4-2290	4-301C	0.953	331.2	-12.9	-1.09	1.269	42.8	0.848	2.707	107.0	178.3	---	---	-1.15	0.177	99.5	184.7	-1.0	0.282
4-2290	4-303C	0.943	331.7	-12.7	-1.05	1.270	43.5	0.844	2.710	105.8	178.9	---	---	-1.14	0.177	95.9	184.2	-0.9	0.280
4-2290	4-305C	0.932	332.2	-12.5	-1.02	1.270	44.1	0.841	2.716	104.6	179.5	---	---	-1.13	0.179	92.5	183.8	-0.9	0.277
4-2290	4-307C	0.922	332.8	-12.2	-0.98	1.270	44.7	0.837	2.723	103.4	180.1	---	5.003	-1.12	0.180	89.4	183.4	-0.9	0.276
4-2290	4-309C	0.912	333.3	-12.0	-0.95	1.271	45.3	0.834	2.732	102.2	180.7	---	5.010	-1.11	0.182	86.5	183.2	-0.9	0.274
4-2290	4-311C	0.902	333.8	-11.8	-0.91	1.271	45.9	0.831	2.742	101.0	181.3	---	5.019	-1.10	0.185	83.8	183.0	-0.9	0.273
4-2290	4-313C	0.892	334.4	-11.6	-0.88	1.272	46.5	0.827	2.753	99.8	181.8	---	5.030	-1.10	0.188	81.3	182.8	-0.9	0.272
4-2290	4-315C	0.881	334.9	-11.4	-0.84	1.273	47.1	0.824	2.765	98.5	182.4	---	5.043	-1.09	0.191	79.1	182.8	-0.9	0.271
4-2290	4-317C	0.871	335.5	-11.1	-0.81	1.273	47.7	0.821	2.777	97.3	182.9	---	5.058	-1.09	0.194	77.0	182.8	-0.9	0.271
4-2290	4-319C	0.862	336.0	-10.9	-0.77	1.274	48.3	0.818	2.791	96.0	183.4	---	5.075	-1.09	0.198	75.0	182.9	-0.9	0.270
4-2290	4-321C	0.852	336.6	-10.7	-0.74	1.275	48.9	0.815	2.806	94.8	183.9	---	5.093	-1.09	0.201	73.3	183.1	-0.9	0.270
4-2290	4-323C	0.842	337.1	-10.4	-0.71	1.275	49.5	0.812	2.820	93.5	184.5	---	5.112	-1.09	0.205	71.6	183.3	-1.0	0.270
4-2290	4-325C	0.832	337.7	-10.2	-0.67	1.276	50.1	0.809	2.836	92.2	184.9	---	5.132	-1.09	0.208	70.2	183.6	-1.0	0.270
4-2290	4-327C	0.822	338.3	-9.9	-0.64	1.277	50.7	0.807	2.852	91.0	185.4	---	5.153	-1.09	0.212	68.8	183.9	-1.0	0.270
4-2290	4-329C	0.812	338.9	-9.7	-0.61	1.278	51.3	0.804	2.868	89.7	185.9	---	5.175	-1.09	0.215	67.5	184.3	-1.0	0.271
4-2290	4-331C	0.802	339.5	-9.4	-0.57	1.278	51.9	0.801	2.885	88.4	186.4	---	5.197	-1.10	0.219	66.3	184.8	-1.1	0.271
4-2290	4-333C	0.793	340.1	-9.2	-0.54	1.279	52.5	0.799	2.902	87.1	186.8	---	5.221	-1.10	0.222	65.3	185.3	-1.1	0.271
4-2290	4-335C	0.783	340.7	-8.9	-0.50	1.280	53.1	0.796	2.919	85.9	187.3	---	5.245	-1.11	0.226	64.3	185.8	-1.1	0.272
4-2290	4-337C	0.773	341.3	-8.6	-0.47	1.281	53.7	0.794	2.937	84.6	187.8	---	5.269	-1.12	0.229	63.3	186.4	-1.2	0.272
4-2290	4-339C	0.764	341.9	-8.3	-0.43	1.282	54.3	0.792	2.955	83.3	188.2	---	5.294	-1.12	0.232	62.5	187.0	-1.2	0.272
4-2290	4-341C	0.754	342.5	-8.0	-0.40	1.282	54.8	0.789	2.973	82.0	188.6	---	5.320	-1.13	0.236	61.7	187.7	-1.3	0.273
4-2290	4-343C	0.745	343.1	-7.7	-0.36	1.283	55.4	0.787	2.991	80.7	189.1	---	5.346	-1.14	0.239	60.9	188.4	-1.3	0.273
4-2290	4-345C	0.735	343.8	-7.4	-0.33	1.284	56.0	0.785	3.010	79.4	189.5	---	5.372	-1.16	0.242	60.2	189.1	-1.4	0.274
4-2290	4-347C	0.726	344.4	-7.1	-0.29	1.285	56.6	0.783	3.028	78.1	189.9	---	5.399	-1.17	0.245	59.6	189.9	-1.4	0.275
4-2290	4-349C	0.716	345.0	-6.8	-0.25	1.286	57.2	0.781	3.047	76.8	190.3	---	5.426	-1.18	0.248	58.9	190.7	-1.5	0.275
4-2290	4-351C	0.707	345.7	-6.5	-0.21	1.286	57.8	0.779	3.066	75.5	190.7	---	5.453	-1.20	0.251	58.4	191.5	-1.5	0.276
4-2290	4-353C	0.697	346.3	-6.1	-0.17	1.287	58.3	0.777	3.084	74.2	191.1	---	5.480	-1.22	0.254	57.8	192.4	-1.6	0.276
4-2290	4-355C	0.688	347.0	-5.8	-0.13	1.288	58.9	0.775	3.103	72.9	191.5	---	5.508	-1.24	0.257	57.3	193.3	-1.7	0.277
4-2290	4-357C	0.679	347.7	-5.4	-0.09	1.289	59.5	0.773	3.122	71.6	191.9	---	5.536	-1.26	0.259	56.8	194.2	-1.7	0.277
4-2290	4-359C	0.669	348.4	-5.1	-0.05	1.289	60.1	0.771	3.141	70.3	192.3	---	5.564	-1.28	0.262	56.4	195.1	-1.8	0.278
4-2290	4-361C	0.660	349.1	-4.7	-0.00	1.290	60.6	0.770	3.160	69.0	192.6	---	5.593	-1.31	0.265	56.0	196.1	-1.9	0.278
4-2290	4-363C	0.651	349.7	-4.3	0.05	1.291	61.2	0.768	3.179	67.7	193.0	---	5.621	-1.33	0.267	55.5	197.1	-2.0	0.279
4-2290	4-365C	0.642	350.5	-3.9	0.09	1.292	61.8	0.766	3.199	66.4	193.4	---	5.650	-1.36	0.270	55.2	198.1	-2.0	0.280
4-2290	4-367C	0.633	351.2	-3.5	0.15	1.292	62.3	0.765	3.218	65.0	193.7	---	5.678	-1.39	0.272	54.8	199.1	-2.1	0.280
4-2290	4-369C	0.624	351.9	-3.1	0.20	1.293	62.9	0.763	3.237	63.7	194.1	---	5.707	-1.43	0.275	54.4	200.1	-2.2	0.281

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2500	4-2900	0.858	356.6	1.8	2.25	1.410	126.0	0.98960	.356	287.5	498.4	0.651	---	-2.54	0.621	158.4	239.3	-3.6	0.613
4-2500	4-2920	0.828	356.4	1.6	2.10	1.392	125.0	0.95614	.884	288.0	500.8	0.661	---	-2.41	0.579	156.7	239.3	-3.6	0.571
4-2500	4-2940	0.802	356.2	1.4	1.97	1.376	124.2	0.926	9.112	288.5	503.1	0.671	---	-2.30	0.540	155.0	239.3	-3.6	0.532
4-2500	4-2960	0.780	356.0	1.2	1.85	1.363	123.4	0.901	6.863	289.0	505.3	0.679	---	-2.20	0.506	153.2	239.2	-3.6	0.497
4-2500	4-2980	0.760	355.8	1.0	1.73	1.352	122.7	0.879	5.675	289.3	507.5	0.686	---	-2.11	0.474	151.3	239.0	-3.7	0.466
4-2500	4-3000	0.744	355.7	0.9	1.63	1.342	122.1	0.860	4.947	289.7	509.6	0.692	---	-2.03	0.446	149.3	238.6	-3.7	0.437
4-2500	4-3020	0.729	355.6	0.7	1.53	1.334	121.6	0.844	4.458	289.9	511.7	0.697	---	-1.96	0.420	147.3	238.2	-3.7	0.411
4-2500	4-3040	0.717	355.6	0.6	1.44	1.327	121.2	0.829	4.111	290.1	513.7	0.701	---	-1.89	0.396	145.1	237.6	-3.7	0.388
4-2500	4-3060	0.707	355.6	0.5	1.36	1.321	120.9	0.817	3.854	290.2	515.6	0.704	---	-1.83	0.375	142.9	236.9	-3.7	0.366
4-2500	4-3080	0.699	355.6	0.4	1.28	1.315	120.6	0.807	3.657	290.3	517.4	0.707	---	-1.78	0.355	140.5	236.1	-3.7	0.347
4-2500	4-3100	0.692	355.6	0.3	1.21	1.311	120.4	0.798	3.504	290.3	519.2	0.709	---	-1.73	0.337	138.1	235.2	-3.7	0.330
4-2500	4-3120	0.687	355.7	0.2	1.14	1.307	120.2	0.790	3.382	290.2	520.9	0.710	---	-1.68	0.321	135.6	234.1	-3.7	0.314
4-2500	4-3140	0.683	355.8	0.1	1.07	1.304	120.1	0.784	3.284	290.0	522.6	0.710	---	-1.64	0.306	133.0	233.0	-3.7	0.301
4-2500	4-3160	0.680	356.0	0.1	1.01	1.301	120.1	0.779	3.205	289.8	524.1	0.709	---	-1.61	0.293	130.3	231.7	-3.7	0.288
4-2500	4-3180	0.679	356.2	0.1	0.95	1.298	120.1	0.774	3.140	289.6	525.6	0.708	---	-1.57	0.281	127.5	230.4	-3.6	0.278
4-2500	4-3200	0.678	356.4	0.0	0.89	1.296	120.1	0.771	3.086	289.2	527.1	0.707	---	-1.54	0.270	124.7	229.0	-3.6	0.268
4-2500	4-3220	0.678	356.6	0.0	0.84	1.294	120.2	0.768	3.042	288.9	528.5	0.705	---	-1.51	0.261	121.8	227.6	-3.6	0.260
4-2500	4-3240	0.679	356.9	0.1	0.79	1.293	120.3	0.766	3.006	288.4	529.8	0.702	---	-1.48	0.252	118.9	226.1	-3.5	0.253
4-2500	4-3260	0.681	357.2	0.1	0.73	1.291	120.5	0.765	2.976	287.9	531.1	0.699	---	-1.46	0.244	115.9	224.6	-3.5	0.246
4-2500	4-3280	0.684	357.5	0.1	0.68	1.290	120.7	0.765	2.952	287.4	532.3	0.695	---	-1.44	0.238	113.0	223.1	-3.4	0.243
4-2500	4-3300	0.688	357.9	0.2	0.64	1.289	120.9	0.764	2.933	286.8	533.4	0.691	---	-1.42	0.232	109.9	221.6	-3.3	0.240
4-2500	4-3320	0.692	358.2	0.3	0.59	1.289	121.2	0.765	2.917	286.2	534.6	0.686	---	-1.40	0.227	106.9	220.2	-3.3	0.237
4-2500	4-3340	0.697	358.6	0.3	0.54	1.288	121.5	0.766	2.905	285.5	535.6	0.681	---	-1.39	0.222	103.9	218.9	-3.2	0.235
4-2500	4-3360	0.702	359.0	0.4	0.50	1.288	121.8	0.767	2.895	284.7	536.6	0.675	---	-1.37	0.219	101.0	217.7	-3.1	0.234
4-2500	4-3380	0.708	359.4	0.5	0.46	1.287	122.2	0.768	2.889	284.0	537.6	0.669	---	-1.36	0.216	98.0	216.5	-3.1	0.234
4-2500	4-3400	0.714	359.9	0.6	0.41	1.287	122.6	0.770	2.884	283.1	538.5	0.663	---	-1.35	0.213	95.1	215.5	-3.0	0.234
4-2500	4-3420	0.721	0.3	0.7	0.37	1.287	123.0	0.772	2.882	282.3	539.3	0.656	---	-1.34	0.211	92.2	214.5	-2.9	0.235
4-2500	4-3440	0.729	0.8	0.9	0.33	1.287	123.4	0.775	2.881	281.4	540.2	0.648	5.114	-1.33	0.210	89.4	213.7	-2.9	0.237
4-2500	4-3460	0.736	1.3	1.0	0.29	1.287	123.8	0.778	2.882	280.5	540.9	0.641	5.123	-1.32	0.209	86.7	213.0	-2.8	0.239
4-2500	4-3480	0.745	1.8	1.2	0.25	1.287	124.3	0.781	2.884	279.5	541.7	0.633	5.136	-1.32	0.208	84.0	212.5	-2.8	0.241
4-2500	4-3500	0.753	2.3	1.3	0.21	1.287	124.8	0.784	2.888	278.5	542.4	0.624	5.151	-1.31	0.208	81.4	212.0	-2.7	0.244
4-2500	4-3520	0.763	2.8	1.5	0.17	1.288	125.3	0.787	2.892	277.4	543.0	0.615	5.169	-1.31	0.208	78.9	211.7	-2.7	0.247
4-2500	4-3540	0.772	3.3	1.6	0.13	1.288	125.9	0.791	2.898	276.4	543.7	0.606	5.189	-1.30	0.208	76.5	211.5	-2.7	0.250
4-2500	4-3560	0.782	3.9	1.8	0.10	1.288	126.4	0.795	2.904	275.3	544.3	0.597	5.212	-1.30	0.209	74.1	211.4	-2.6	0.254
4-2500	4-3580	0.792	4.4	2.0	0.06	1.289	127.0	0.798	2.911	274.1	544.8	0.587	5.236	-1.30	0.209	71.8	211.4	-2.6	0.257
4-2500	4-3600	0.803	5.0	2.2	0.02	1.289	127.6	0.802	2.919	273.0	545.3	0.577	5.262	-1.30	0.210	69.6	211.5	-2.6	0.261
4-2500	4-3620	0.814	5.5	2.4	-0.02	1.289	128.2	0.807	2.928	271.8	545.8	0.566	5.290	-1.31	0.211	67.5	211.7	-2.6	0.265
4-2500	4-3640	0.825	6.1	2.6	-0.06	1.290	128.8	0.811	2.938	270.6	546.3	0.556	5.319	-1.31	0.213	65.4	212.0	-2.6	0.269
4-2500	4-3660	0.837	6.7	2.8	-0.10	1.290	129.5	0.815	2.947	269.3	546.7	0.545	5.350	-1.31	0.214	63.4	212.4	-2.6	0.274
4-2500	4-3680	0.848	7.2	3.0	-0.13	1.291	130.1	0.820	2.958	268.1	547.1	0.533	5.382	-1.32	0.216	61.4	212.8	-2.6	0.278
4-2500	4-3700	0.861	7.8	3.2	-0.17	1.291	130.8	0.824	2.969	266.8	547.5	0.522	5.416	-1.33	0.217	59.6	213.4	-2.6	0.283
4-2500	4-3720	0.873	8.4	3.4	-0.21	1.292	131.5	0.829	2.980	265.5	547.8	0.510	5.450	-1.33	0.219	57.7	214.0	-2.6	0.287
4-2500	4-3740	0.886	9.0	3.6	-0.25	1.292	132.2	0.834	2.992	264.1	548.1	0.498	5.486	-1.34	0.221	56.0	214.7	-2.6	0.292
4-2500	4-3760	0.899	9.6	3.8	-0.29	1.293	132.9	0.838	3.004	262.8	548.4	0.486	5.522	-1.35	0.223	54.3	215.4	-2.6	0.296
4-2500	4-3780	0.912	10.2	4.0	-0.33	1.293	133.7	0.843	3.016	261.4	548.7	0.473	5.559	-1.37	0.225	52.6	216.2	-2.6	0.301
4-2500	4-3800	0.925	10.8	4.3	-0.37	1.294	134.4	0.848	3.029	260.0	548.9	0.460	5.598	-1.38	0.226	51.0	217.0	-2.6	0.306
4-2500	4-3820	0.939	11.5	4.5	-0.42	1.294	135.2	0.853	3.042	258.6	549.1	0.448	5.637	-1.39	0.228	49.4	217.9	-2.7	0.311
4-2500	4-3840	0.953	12.1	4.7	-0.46	1.295	136.0	0.858	3.055	257.1	549.3	0.435	5.676	-1.41	0.230	47.9	218.9	-2.7	0.316
4-2500	4-3860	0.967	12.7	4.9	-0.50	1.295	136.7	0.863	3.069	255.7	549.5	0.421	5.717	-1.42	0.232	46.4	219.8	-2.7	0.320
4-2500	4-3880	0.981	13.3	5.2	-0.55	1.296	137.6	0.868	3.083	254.2	549.6	0.408	5.758	-1.44	0.234	44.9	220.9	-2.7	0.325
4-2500	4-3900	0.996	14.0	5.4	-0.59	1.296	138.4	0.873	3.097	252.7	549.7	0.395	5.799	-1.46	0.237	43.5	221.9	-2.8	0.330
4-2500	4-3920	1.011	14.6	5.7	-0.64	1.297	139.2	0.878	3.111	251.2	549.8	0.381	5.841	-1.49	0.239	42.1	223.0	-2.8	0.335
4-2500	4-3940	1.025	15.2	5.9	-0.69	1.298	140.1	0.882	3.126	249.6	549.9	0.367	5.884	-1.51	0.241	40.7	224.2	-2.8	0.340
4-2600	4-3960	1.041	15.9	6.1	-0.74	1.298	140.9	0.887	3.140	248.1	549.9	0.354	5.927	-1.53	0.243	39.4	225.4	-2.9	0.345
4-2500	4-3980	1.056	16.5	6.4	-0.79	1.299	141.8	0.892	3.155	246.5	550.0	0.340	5.970	-1.56	0.245	38.1	226.6	-2.9	0.350
4-2500	4-4000	1.071	17.2	6.6	-0.84	1.299	142.7	0.897	3.170	244.9	550.0	0.326	6.014	-1.59	0.247	36.8	227.8	-2.9	0.355
4-2500	4-4020	1.087	17.8	6.9	-0.90	1.300	143.6	0.902	3.185	243.3	550.0	0.312	6.058	-1.62	0.249	35.6	229.1	-3.0	0.360
4-2500	4-4040	1.103	18.5	7.1	-0.95	1.301	144.5	0.907	3.200	241.7	549.9	0.299	6.102	-1.66	0.251	34.3	230.4	-3.0	0.364
4-2500	4-4060	1.119	19.1	7.4	-1.01	1.301	145.4	0.911	3.216	240.1	549.9	0.285	6.147	-1.70	0.253	33.1	231.7	-3.0	0.369
4-2500	4-4080	1.135	19.8	7.6	-1.08	1.302	146.3	0.916	3.231	238.4	549.8	0.271	6.191	-1.74	0.255	31.9	233.0	-3.1	0.374
4-2500	4-4100	1.151	20.4	7.9	-1.14	1.302	147.2	0.921	3.247	236.8	549.7	0.257	6.236	-1.78	0.258	30.7	234.4	-3.1	0.379
4-2510	4-2910	0.805	1.3	5.5	3.07	1.411	122.8	0.99426	.774	294.2	496.1	0.706	---	-3.47	0.628	157.7	241.1	-4.0	0.613
4-2510	4-2930	0.775	1.0	5.1	2.79	1.393	121.8	0.95817	.007	294.8	498.6	0.717	---	-3.22	0.586	156.0	241.2	-4.0	0.570
4-2510	4-2950	0.749	0.8	4.8	2.56	1.377	120.9	0.926	9.840	295.4	500.9	0.726	---	-3.00	0.548	154.3	241.3	-4.0	0.532
4-2510	4-2970	0.726	0.6	4.4	2.35	1.364	120.2	0.899	7.255	295.9	503.3	0.734	---	-2.82	0.513	152.5	241.2	-4.0	0.497
4-2510	4-2990	0.706	0.5	4.1	2.17	1.353	119.5	0.875	5.932	296.3	505.5	0.741	---	-2.66	0.482	150.6	241.0	-4.0	0.465
4-2510	4-3010	0.689	0.3	3.9	2.01	1.343	118.9	0.855	5.135	296.7	507.7	0.747	---	-2.52	0.454	148.7	240.8	-4.0	0.436
4-2510	4-3030	0.675	0.2	3.6	1.86	1.335	118.4	0.837	4.606	297.0	509.8	0.752	---	-2.39	0.428	146.7	240.4	-4.0	0.410
4-2510	4-3050	0.663	0.2	3.4	1.73	1.327	117.9	0.821	4.232	297.3	511.9	0.757	---	-2.28	0.405	144.5	239.9	-4.0	0.386
4-2510	4-3070	0.652	0.1	3.2	1.61	1.321	117.6	0.808	3.957	297.5	513.9	0.760	---	-2.19	0.383	142.3	239.3	-4.0	0.365
4-2510	4-3090	0.643	0.1	3.0	1.50	1.316	117.3	0.796	3.748	297.6	515.8	0.763	---	-2.10	0.364	140.1	238.5	-4.0	0.345
4-2510	4-3110	0.636	0.2	2.9	1.40	1.311	117.0	0.787	3.585	297.7	517.6	0.765	---	-2.02	0.346	137.7	237.7	-4.0	0.328
4-2510	4-3130	0.630	0.3	2.7	1.30	1.307	116.9	0.778	3.455	297.6	519.4	0.766	---	-1.95	0.330	135.2	236.7	-4.0	0.312
4-2510	4-3150	0.626	0.4	2.6	1.21	1.304	116.7	0.771	3.351	297.6	521.1	0.767	---	-1.88	0.316	132.7	235.6	-4.0	0.298
4-2510	4-3170	0.623	0.5	2.5	1.13	1.301	116.7	0.765	3.267	297.4	522.7	0.767	---	-1.82	0.303	130.1	234.5	-4.0	0.285
4-2510	4-3190	0.621	0.7	2.5	1.05	1.298	116.6	0.760	3.198	297.2	524.3	0.766	---	-1.77	0.291	127.5	233.2	-3.9	0.274
4-2510	4-3210	0.619	0.9	2.4	0.98	1.296	116.7	0.756	3.141	297.0	525.8	0.765	---	-1.72	0.280	124.8	231.9	-3.9	0.264
4-2510	4-3230	0.619	1.2	2.4	0.91	1.294	116.7	0.753	3.094	296.6	527.3	0.764	---	-1.68	0.271	122.0	230.5	-3.9	0.256
4-2510	4-3250	0.620	1.4	2.3	0.85	1.293	116.8	0.751	3.056	296.3	528.6	0.762	---	-1.64	0.262	119.3	229.0	-3.8	0.249
4-2510	4-3270	0.621	1.7	2.3	0.79	1.291	116.9	0.749	3.024	295.8	530.0	0.759	---	-1.60	0.254	116.4	227.5	-3.8	0.242

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2510	4-3290	0.623	2.1	2.4	0.73	1.290	117.1	0.748	2.998	295.3	531.2	0.756	---	-1.57	0.248	113.6	226.1	-3.7	0.237
4-2510	4-3310	0.626	2.4	2.4	0.67	1.289	117.3	0.747	2.976	294.8	532.4	0.752	---	-1.53	0.242	110.8	224.6	-3.6	0.233
4-2510	4-3330	0.629	2.8	2.4	0.62	1.288	117.5	0.747	2.959	294.2	533.6	0.748	---	-1.51	0.237	107.9	223.2	-3.6	0.230
4-2510	4-3350	0.633	3.2	2.5	0.56	1.288	117.8	0.747	2.946	293.6	534.7	0.744	---	-1.48	0.232	105.1	221.8	-3.5	0.228
4-2510	4-3370	0.638	3.6	2.6	0.51	1.287	118.1	0.748	2.935	292.9	535.8	0.739	---	-1.46	0.229	102.3	220.5	-3.4	0.226
4-2510	4-3390	0.643	4.0	2.6	0.46	1.287	118.4	0.749	2.927	292.2	536.8	0.734	---	-1.44	0.225	99.5	219.3	-3.4	0.226
4-2510	4-3410	0.649	4.5	2.7	0.42	1.287	118.8	0.751	2.922	291.4	537.7	0.728	---	-1.42	0.223	96.8	218.2	-3.3	0.225
4-2510	4-3430	0.655	5.0	2.8	0.37	1.287	119.1	0.752	2.918	290.6	538.7	0.722	---	-1.40	0.221	94.1	217.1	-3.2	0.226
4-2510	4-3450	0.661	5.4	3.0	0.33	1.287	119.5	0.755	2.917	289.8	539.5	0.716	---	-1.38	0.219	91.5	216.2	-3.2	0.227
4-2510	4-3470	0.668	5.9	3.1	0.28	1.287	119.9	0.757	2.917	288.9	540.4	0.709	5.124	-1.37	0.218	88.9	215.5	-3.1	0.228
4-2510	4-3490	0.676	6.5	3.2	0.24	1.287	120.3	0.759	2.918	288.0	541.2	0.702	5.134	-1.35	0.217	86.4	214.8	-3.0	0.230
4-2510	4-3510	0.684	7.0	3.4	0.20	1.287	120.8	0.762	2.921	287.0	541.9	0.695	5.147	-1.34	0.217	83.9	214.3	-3.0	0.232
4-2510	4-3530	0.692	7.5	3.5	0.16	1.287	121.3	0.765	2.925	286.0	542.6	0.687	5.163	-1.33	0.216	81.6	213.8	-2.9	0.235
4-2510	4-3550	0.701	8.1	3.7	0.12	1.287	121.8	0.768	2.930	285.0	543.3	0.679	5.181	-1.32	0.216	79.3	213.5	-2.9	0.238
4-2510	4-3570	0.710	8.6	3.8	0.08	1.287	122.3	0.772	2.936	284.0	543.9	0.670	5.201	-1.32	0.217	77.0	213.3	-2.8	0.241
4-2510	4-3590	0.719	9.2	4.0	0.04	1.288	122.8	0.775	2.942	282.9	544.6	0.661	5.224	-1.31	0.217	74.8	213.2	-2.8	0.244
4-2510	4-3610	0.729	9.8	4.2	0.00	1.288	123.3	0.779	2.950	281.8	545.1	0.652	5.248	-1.31	0.218	72.7	213.3	-2.8	0.248
4-2510	4-3630	0.739	10.3	4.4	-0.04	1.288	123.9	0.783	2.958	280.7	545.7	0.643	5.273	-1.30	0.219	70.7	213.4	-2.8	0.251
4-2510	4-3650	0.749	10.9	4.6	-0.08	1.289	124.5	0.787	2.967	279.5	546.2	0.633	5.301	-1.30	0.220	68.7	213.6	-2.7	0.255
4-2510	4-3670	0.760	11.5	4.8	-0.11	1.289	125.1	0.791	2.976	278.3	546.7	0.623	5.330	-1.30	0.221	66.8	213.9	-2.7	0.259
4-2510	4-3690	0.770	12.1	5.0	-0.15	1.290	125.7	0.795	2.986	277.1	547.1	0.613	5.360	-1.30	0.222	65.0	214.2	-2.7	0.263
4-2510	4-3710	0.782	12.7	5.2	-0.19	1.290	126.3	0.799	2.997	275.9	547.6	0.602	5.391	-1.30	0.224	63.2	214.7	-2.7	0.267
4-2510	4-3730	0.793	13.3	5.4	-0.23	1.291	126.9	0.803	3.007	274.6	548.0	0.591	5.424	-1.30	0.225	61.4	215.2	-2.7	0.271
4-2510	4-3750	0.805	13.9	5.6	-0.26	1.291	127.6	0.808	3.019	273.4	548.3	0.580	5.457	-1.30	0.227	59.8	215.8	-2.7	0.276
4-2510	4-3770	0.817	14.5	5.8	-0.30	1.292	128.3	0.812	3.030	272.1	548.7	0.568	5.492	-1.31	0.228	58.1	216.4	-2.7	0.280
4-2510	4-3790	0.829	15.2	6.0	-0.34	1.292	129.0	0.817	3.042	270.7	549.0	0.557	5.528	-1.31	0.230	56.5	217.2	-2.7	0.284
4-2510	4-3810	0.841	15.8	6.2	-0.38	1.293	129.7	0.822	3.054	269.4	549.3	0.545	5.564	-1.32	0.232	55.0	217.9	-2.8	0.289
4-2510	4-3830	0.854	16.4	6.5	-0.42	1.293	130.4	0.826	3.067	268.0	549.6	0.533	5.601	-1.32	0.234	53.5	218.7	-2.8	0.293
4-2510	4-3850	0.867	17.0	6.7	-0.45	1.294	131.1	0.831	3.080	266.7	549.8	0.520	5.639	-1.33	0.235	52.0	219.6	-2.8	0.298
4-2510	4-3870	0.880	17.7	6.9	-0.49	1.294	131.8	0.836	3.093	265.3	550.0	0.508	5.678	-1.34	0.237	50.6	220.5	-2.8	0.302
4-2510	4-3890	0.894	18.3	7.1	-0.53	1.295	132.6	0.841	3.106	263.8	550.2	0.495	5.718	-1.35	0.239	49.2	221.5	-2.8	0.307
4-2510	4-3910	0.907	19.0	7.4	-0.57	1.295	133.3	0.846	3.120	262.4	550.4	0.482	5.758	-1.36	0.241	47.8	222.5	-2.9	0.311
4-2510	4-3930	0.921	19.6	7.6	-0.61	1.296	134.1	0.850	3.134	261.0	550.6	0.469	5.799	-1.38	0.243	46.4	223.5	-2.9	0.316
4-2510	4-3950	0.935	20.2	7.8	-0.65	1.296	134.9	0.855	3.148	259.5	550.7	0.455	5.840	-1.39	0.245	45.1	224.6	-2.9	0.321
4-2510	4-3970	0.949	20.9	8.1	-0.70	1.297	135.7	0.860	3.162	258.0	550.8	0.442	5.882	-1.41	0.247	43.9	225.7	-2.9	0.325
4-2510	4-3990	0.964	21.5	8.3	-0.74	1.297	136.5	0.865	3.176	256.5	550.9	0.428	5.924	-1.42	0.249	42.6	226.9	-3.0	0.330
4-2510	4-4010	0.978	22.2	8.5	-0.78	1.298	137.3	0.870	3.191	255.0	551.0	0.415	5.966	-1.44	0.251	41.4	228.1	-3.0	0.335
4-2510	4-4030	0.993	22.8	8.8	-0.83	1.298	138.2	0.875	3.205	253.5	551.0	0.401	6.009	-1.46	0.253	40.2	229.3	-3.0	0.339
4-2510	4-4050	1.008	23.5	9.0	-0.87	1.299	139.0	0.880	3.220	251.9	551.1	0.387	6.053	-1.48	0.255	39.0	230.5	-3.1	0.344
4-2510	4-4070	1.023	24.2	9.3	-0.92	1.300	139.9	0.885	3.235	250.3	551.1	0.373	6.097	-1.51	0.257	37.8	231.8	-3.1	0.349
4-2510	4-4090	1.038	24.8	9.5	-0.97	1.300	140.7	0.890	3.250	248.8	551.1	0.359	6.141	-1.53	0.258	36.6	233.0	-3.1	0.353
4-2510	4-4110	1.054	25.5	9.7	-1.02	1.301	141.6	0.894	3.265	247.2	551.1	0.345	6.185	-1.56	0.260	35.5	234.3	-3.2	0.358
4-2520	4-2920	0.754	4.8	11.0	5.03	1.411	119.5	0.99958	853	301.0	494.0	0.760	---	-5.54	0.633	156.9	242.8	-5.0	0.611
4-2520	4-2940	0.723	4.6	10.0	4.35	1.393	118.5	0.96019	051	301.7	496.6	0.770	---	-4.88	0.591	155.3	243.0	-4.8	0.569
4-2520	4-2960	0.696	4.5	9.2	3.81	1.377	117.6	0.92610	483	302.3	499.0	0.779	---	-4.36	0.553	153.6	243.1	-4.8	0.530
4-2520	4-2980	0.673	4.4	8.5	3.38	1.364	116.8	0.896	7.594	302.9	501.4	0.787	---	-3.95	0.519	151.8	243.0	-4.7	0.495
4-2520	4-3000	0.653	4.2	8.0	3.02	1.353	116.2	0.871	6.153	303.4	503.7	0.794	---	-3.61	0.488	150.0	242.9	-4.6	0.463
4-2520	4-3020	0.636	4.1	7.4	2.72	1.343	115.6	0.849	5.297	303.9	506.0	0.800	---	-3.33	0.460	148.0	242.7	-4.6	0.434
4-2520	4-3040	0.621	4.0	7.0	2.46	1.335	115.0	0.830	4.733	304.3	508.2	0.805	---	-3.09	0.435	146.0	242.4	-4.6	0.408
4-2520	4-3060	0.608	4.0	6.6	2.23	1.327	114.6	0.813	4.338	304.6	510.3	0.809	---	-2.89	0.412	143.9	241.9	-4.5	0.385
4-2520	4-3080	0.598	4.0	6.2	2.04	1.321	114.2	0.799	4.048	304.9	512.3	0.813	---	-2.71	0.391	141.8	241.4	-4.5	0.363
4-2520	4-3100	0.589	4.0	5.9	1.86	1.316	113.9	0.787	3.827	305.0	514.3	0.816	---	-2.56	0.371	139.5	240.7	-4.5	0.343
4-2520	4-3120	0.581	4.0	5.6	1.71	1.311	113.7	0.776	3.656	305.1	516.2	0.818	---	-2.43	0.354	137.2	239.9	-4.4	0.326
4-2520	4-3140	0.575	4.1	5.3	1.57	1.307	113.5	0.767	3.520	305.2	518.0	0.819	---	-2.31	0.338	134.9	239.0	-4.4	0.310
4-2520	4-3160	0.570	4.2	5.1	1.44	1.304	113.4	0.760	3.411	305.2	519.8	0.820	---	-2.20	0.324	132.4	238.0	-4.4	0.295
4-2520	4-3180	0.567	4.4	4.9	1.33	1.301	113.3	0.753	3.323	305.1	521.5	0.821	---	-2.11	0.311	129.9	236.9	-4.4	0.282
4-2520	4-3200	0.564	4.6	4.8	1.22	1.298	113.2	0.748	3.250	304.9	523.1	0.820	---	-2.03	0.299	127.3	235.7	-4.3	0.271
4-2520	4-3220	0.562	4.8	4.7	1.13	1.296	113.2	0.743	3.191	304.7	524.7	0.820	---	-1.95	0.288	124.7	234.4	-4.3	0.261
4-2520	4-3240	0.562	5.1	4.6	1.04	1.294	113.3	0.739	3.142	304.5	526.2	0.819	---	-1.88	0.279	122.1	233.0	-4.2	0.252
4-2520	4-3260	0.562	5.3	4.5	0.95	1.292	113.3	0.737	3.101	304.1	527.6	0.817	---	-1.82	0.271	119.4	231.6	-4.2	0.244
4-2520	4-3280	0.563	5.7	4.5	0.87	1.291	113.5	0.734	3.067	303.7	529.0	0.815	---	-1.76	0.263	116.7	230.2	-4.1	0.238
4-2520	4-3300	0.564	6.0	4.4	0.80	1.290	113.6	0.733	3.040	303.3	530.3	0.812	---	-1.71	0.256	114.0	228.7	-4.0	0.232
4-2520	4-3320	0.566	6.4	4.4	0.73	1.289	113.8	0.732	3.017	302.8	531.5	0.810	---	-1.67	0.251	111.3	227.3	-4.0	0.228
4-2520	4-3340	0.569	6.8	4.4	0.66	1.288	114.0	0.731	2.999	302.3	532.7	0.806	---	-1.62	0.245	108.6	225.8	-3.9	0.224
4-2520	4-3360	0.573	7.2	4.5	0.60	1.287	114.2	0.731	2.984	301.7	533.9	0.803	---	-1.58	0.241	105.9	224.4	-3.8	0.221
4-2520	4-3380	0.577	7.7	4.5	0.54	1.287	114.5	0.731	2.972	301.0	535.0	0.798	---	-1.55	0.237	103.3	223.1	-3.7	0.219
4-2520	4-3400	0.581	8.1	4.6	0.49	1.286	114.8	0.732	2.964	300.4	536.0	0.794	---	-1.52	0.234	100.7	221.8	-3.6	0.218
4-2520	4-3420	0.586	8.6	4.6	0.43	1.286	115.1	0.733	2.957	299.6	537.0	0.789	---	-1.49	0.231	98.1	220.7	-3.6	0.218
4-2520	4-3440	0.591	9.1	4.7	0.38	1.286	115.4	0.734	2.953	298.9	538.0	0.784	---	-1.46	0.229	95.5	219.6	-3.5	0.218
4-2520	4-3460	0.597	9.6	4.8	0.33	1.286	115.7	0.736	2.951	298.1	538.9	0.779	---	-1.43	0.227	93.0	218.6	-3.4	0.218
4-2520	4-3480	0.604	10.2	5.0	0.28	1.286	116.1	0.738	2.950	297.3	539.8	0.773	---	-1.41	0.226	90.6	217.8	-3.3	0.219
4-2520	4-3500	0.610	10.7	5.1	0.23	1.286	116.5	0.740	2.951	296.4	540.6	0.767	5.136	-1.39	0.225	88.2	217.0	-3.3	0.221
4-2520	4-3520	0.617	11.3	5.2	0.19	1.286	116.9	0.743	2.953	295.5	541.4	0.760	5.146	-1.37	0.224	85.9	216.4	-3.2	0.222
4-2520	4-3540	0.625	11.8	5.4	0.15	1.286	117.4	0.745	2.957	294.5	542.2	0.753	5.160	-1.35	0.224	83.7	215.9	-3.1	0.225
4-2520	4-3560	0.633	12.4	5.5	0.10	1.286	117.8	0.748	2.961	293.6	542.9	0.746	5.176	-1.34	0.224	81.5	215.5	-3.1	0.227
4-2520	4-3580	0.641	13.0	5.7	0.06	1.287	118.3	0.751	2.966	292.6	543.6	0.739	5.194	-1.32	0.224	79.4	215.2	-3.0	0.230
4-2520	4-3600	0.649	13.6	5.9	0.02	1.287	118.8	0.754	2.973	291.5	544.2	0.731	5.214	-1.31	0.224	77.3	215.1	-3.0	0.233
4-2520	4-3620	0.658	14.2	6.0	-0.02	1.287	119.3	0.757	2.980	290.5	544.9	0.723	5.237	-1.30	0.225	75.3	215.0	-3.0	0.236
4-2520	4-3640	0.667	14.8	6.2	-0.06	1.287	119.8	0.761	2.987	289.4	545.5	0.714	5.260	-1.29	0.226	73.4	215.0	-2.9	0.239
4-2520	4-3660	0.677	15.4	6.4	-0.10	1.288	120.3	0.764	2.996	288.3	546.0	0.706	5.286	-1.28	0.227	71.5	215.1	-2.9	0.243

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2530	4-4070	0.831	33.3	12.4	-0.81	1.296	129.0	0.827	3.263	271.5	552.7	0.563	5.962	-1.19	0.262	46.6	231.2	-3.1	0.308
4-2530	4-4090	0.844	34.0	12.6	-0.84	1.297	129.7	0.832	3.277	270.1	552.9	0.550	6.003	-1.20	0.263	45.6	232.4	-3.2	0.313
4-2530	4-4110	0.858	34.7	12.8	-0.88	1.297	130.5	0.837	3.291	268.6	553.0	0.537	6.045	-1.21	0.265	44.5	233.5	-3.2	0.317
4-2530	4-4130	0.871	35.4	13.0	-0.91	1.298	131.3	0.842	3.305	267.2	553.1	0.524	6.087	-1.22	0.267	43.5	234.7	-3.2	0.321
4-2540	4-2940	0.688	28.0	-17.0	-13.62	1.409	112.4	1.00397	.439	315.3	490.6	0.863	---	12.90	0.637	155.5	245.7	2.8	0.606
4-2540	4-2960	0.736	37.3	-27.8	-21.38	1.391	111.4	0.95921	.312	316.2	493.2	0.872	---	20.64	0.596	153.9	244.9	6.5	0.573
4-2540	4-2980	1.076	71.6	-40.3	-47.38	1.376	110.5	0.92111	.195	317.3	495.8	0.881	---	46.62	0.559	152.1	239.1	16.2	0.588
4-2540	4-3000	1.134	13.5	80.0	51.86	1.363	110.1	0.890	7.985	317.1	498.5	0.882	---	-52.63	0.525	150.5	235.7	-23.5	0.575
4-2540	4-3020	0.682	359.3	47.3	21.26	1.351	109.3	0.861	6.420	318.1	500.9	0.890	---	-22.05	0.495	148.6	243.9	-14.5	0.474
4-2540	4-3040	0.581	2.8	32.8	12.68	1.342	108.7	0.837	5.501	318.7	503.3	0.895	---	-13.49	0.467	146.7	245.1	-10.7	0.435
4-2540	4-3060	0.540	4.7	25.2	8.86	1.333	108.2	0.816	4.900	319.3	505.6	0.899	---	-9.68	0.443	144.7	245.3	-8.9	0.406
4-2540	4-3080	0.516	5.9	20.7	6.71	1.326	107.8	0.798	4.480	319.7	507.8	0.903	---	-7.55	0.420	142.7	245.1	-7.8	0.381
4-2540	4-3100	0.500	6.7	17.6	5.33	1.320	107.4	0.783	4.173	320.1	509.9	0.906	---	-6.19	0.399	140.6	244.7	-7.2	0.358
4-2540	4-3120	0.488	7.2	15.5	4.38	1.315	107.1	0.769	3.940	320.4	512.0	0.908	---	-5.25	0.381	138.4	244.2	-6.7	0.338
4-2540	4-3140	0.479	7.7	13.8	3.67	1.310	106.9	0.758	3.760	320.6	514.0	0.910	---	-4.56	0.364	136.2	243.5	-6.3	0.320
4-2540	4-3160	0.472	8.0	12.5	3.13	1.306	106.7	0.748	3.617	320.8	515.9	0.912	---	-4.04	0.349	133.9	242.7	-6.1	0.304
4-2540	4-3180	0.466	8.4	11.5	2.70	1.303	106.5	0.739	3.502	320.8	517.8	0.913	---	-3.63	0.335	131.5	241.8	-5.8	0.289
4-2540	4-3200	0.462	8.8	10.7	2.36	1.299	106.4	0.732	3.409	320.8	519.6	0.913	---	-3.29	0.322	129.2	240.8	-5.7	0.276
4-2540	4-3220	0.458	9.1	10.0	2.06	1.297	106.4	0.726	3.332	320.8	521.3	0.913	---	-3.02	0.311	126.7	239.7	-5.5	0.265
4-2540	4-3240	0.456	9.5	9.5	1.82	1.295	106.4	0.721	3.269	320.6	522.9	0.913	---	-2.79	0.300	124.3	238.5	-5.3	0.254
4-2540	4-3260	0.454	9.9	9.0	1.61	1.293	106.4	0.716	3.217	320.4	524.4	0.913	---	-2.60	0.291	121.8	237.2	-5.2	0.245
4-2540	4-3280	0.454	10.3	8.7	1.43	1.291	106.4	0.713	3.174	320.2	525.9	0.912	---	-2.43	0.283	119.3	235.8	-5.1	0.237
4-2540	4-3300	0.454	10.8	8.4	1.26	1.290	106.5	0.710	3.139	319.9	527.4	0.910	---	-2.29	0.276	116.8	234.4	-5.0	0.230
4-2540	4-3320	0.454	11.2	8.1	1.12	1.289	106.6	0.708	3.109	319.5	528.8	0.909	---	-2.16	0.269	114.3	233.0	-4.8	0.224
4-2540	4-3340	0.456	11.7	8.0	0.99	1.288	106.8	0.706	3.085	319.1	530.1	0.907	---	-2.05	0.264	111.8	231.6	-4.7	0.219
4-2540	4-3360	0.458	12.3	7.8	0.88	1.287	107.0	0.705	3.065	318.6	531.3	0.905	---	-1.96	0.259	109.3	230.2	-4.6	0.215
4-2540	4-3380	0.460	12.8	7.7	0.77	1.286	107.2	0.704	3.049	318.1	532.5	0.902	---	-1.87	0.254	106.8	228.8	-4.5	0.211
4-2540	4-3400	0.463	13.4	7.7	0.68	1.286	107.4	0.704	3.036	317.5	533.7	0.900	---	-1.79	0.251	104.4	227.4	-4.3	0.209
4-2540	4-3420	0.466	14.0	7.7	0.59	1.285	107.6	0.704	3.026	316.9	534.8	0.897	---	-1.72	0.247	102.0	226.1	-4.2	0.207
4-2540	4-3440	0.470	14.6	7.7	0.51	1.285	107.9	0.704	3.019	316.2	535.9	0.893	---	-1.66	0.245	99.6	224.9	-4.1	0.206
4-2540	4-3460	0.474	15.2	7.7	0.44	1.285	108.2	0.705	3.014	315.5	536.9	0.890	---	-1.60	0.242	97.3	223.8	-4.0	0.205
4-2540	4-3480	0.479	15.9	7.8	0.37	1.285	108.5	0.706	3.011	314.8	537.9	0.886	---	-1.55	0.241	95.1	222.7	-3.9	0.205
4-2540	4-3500	0.484	16.6	7.9	0.30	1.284	108.8	0.707	3.010	314.0	538.8	0.882	---	-1.50	0.239	92.9	221.8	-3.8	0.205
4-2540	4-3520	0.489	17.2	8.0	0.24	1.284	109.2	0.709	3.010	313.2	539.7	0.877	---	-1.46	0.238	90.7	220.9	-3.7	0.206
4-2540	4-3540	0.495	17.9	8.1	0.18	1.285	109.5	0.710	3.011	312.4	540.6	0.873	5.150	-1.42	0.237	88.6	220.2	-3.6	0.207
4-2540	4-3560	0.501	18.6	8.2	0.13	1.285	109.9	0.712	3.014	311.5	541.4	0.868	5.160	-1.38	0.237	86.6	219.6	-3.5	0.209
4-2540	4-3580	0.507	19.3	8.4	0.07	1.285	110.3	0.714	3.018	310.6	542.2	0.862	5.173	-1.35	0.237	84.6	219.1	-3.4	0.210
4-2540	4-3600	0.514	20.1	8.5	0.02	1.285	110.7	0.716	3.022	309.7	542.9	0.857	5.188	-1.32	0.236	82.7	218.7	-3.4	0.212
4-2540	4-3620	0.521	20.8	8.7	-0.02	1.285	111.2	0.719	3.028	308.7	543.7	0.851	5.205	-1.29	0.237	80.8	218.4	-3.3	0.215
4-2540	4-3640	0.528	21.5	8.9	-0.07	1.286	111.6	0.722	3.035	307.7	544.3	0.845	5.224	-1.27	0.237	79.0	218.2	-3.3	0.217
4-2540	4-3660	0.536	22.2	9.1	-0.11	1.286	112.0	0.724	3.042	306.7	545.0	0.839	5.245	-1.24	0.237	77.2	218.1	-3.2	0.220
4-2540	4-3680	0.544	23.0	9.3	-0.15	1.286	112.5	0.727	3.050	305.7	545.6	0.832	5.267	-1.22	0.238	75.5	218.1	-3.2	0.223
4-2540	4-3700	0.552	23.7	9.5	-0.19	1.286	113.0	0.730	3.058	304.6	546.2	0.825	5.291	-1.20	0.239	73.9	218.2	-3.1	0.226
4-2540	4-3720	0.560	24.5	9.7	-0.23	1.287	113.5	0.733	3.067	303.6	546.8	0.818	5.316	-1.18	0.240	72.3	218.4	-3.1	0.229
4-2540	4-3740	0.569	25.2	9.9	-0.27	1.287	114.0	0.736	3.077	302.5	547.4	0.811	5.342	-1.17	0.241	70.7	218.7	-3.1	0.232
4-2540	4-3760	0.577	26.0	10.1	-0.31	1.288	114.5	0.740	3.086	301.3	547.9	0.803	5.370	-1.15	0.242	69.2	219.0	-3.0	0.235
4-2540	4-3780	0.587	26.7	10.3	-0.34	1.288	115.1	0.743	3.097	300.2	548.4	0.795	5.398	-1.14	0.243	67.8	219.4	-3.0	0.239
4-2540	4-3800	0.596	27.5	10.5	-0.38	1.289	115.6	0.747	3.108	299.0	548.9	0.787	5.428	-1.13	0.244	66.3	219.9	-3.0	0.242
4-2540	4-3820	0.605	28.2	10.8	-0.41	1.289	116.2	0.750	3.119	297.9	549.3	0.779	5.459	-1.12	0.245	64.9	220.4	-3.0	0.246
4-2540	4-3840	0.615	29.0	11.0	-0.44	1.289	116.7	0.754	3.130	296.7	549.7	0.770	5.490	-1.11	0.247	63.6	221.0	-3.0	0.249
4-2540	4-3860	0.625	29.7	11.2	-0.48	1.290	117.3	0.758	3.142	295.5	550.1	0.761	5.522	-1.10	0.248	62.3	221.7	-3.0	0.253
4-2540	4-3880	0.635	30.5	11.4	-0.51	1.290	117.9	0.762	3.154	294.2	550.5	0.752	5.556	-1.09	0.250	61.0	222.4	-3.0	0.256
4-2540	4-3900	0.646	31.2	11.7	-0.54	1.291	118.5	0.766	3.166	293.0	550.9	0.742	5.590	-1.08	0.251	59.8	223.1	-3.0	0.260
4-2540	4-3920	0.657	32.0	11.9	-0.57	1.291	119.1	0.770	3.178	291.7	551.2	0.733	5.624	-1.08	0.253	58.5	223.9	-3.0	0.264
4-2540	4-3940	0.667	32.7	12.1	-0.60	1.292	119.7	0.774	3.191	290.4	551.6	0.723	5.660	-1.07	0.254	57.4	224.8	-3.0	0.267
4-2540	4-3960	0.678	33.5	12.3	-0.63	1.292	120.4	0.778	3.204	289.1	551.9	0.712	5.696	-1.07	0.256	56.2	225.7	-3.0	0.271
4-2540	4-3980	0.690	34.2	12.6	-0.66	1.293	121.0	0.782	3.217	287.8	552.2	0.702	5.732	-1.06	0.257	55.1	226.6	-3.0	0.275
4-2540	4-4000	0.701	34.9	12.8	-0.69	1.293	121.6	0.786	3.230	286.5	552.4	0.691	5.769	-1.06	0.259	53.9	227.5	-3.1	0.278
4-2540	4-4020	0.713	35.7	13.0	-0.72	1.294	122.3	0.790	3.244	285.2	552.7	0.680	5.807	-1.06	0.260	52.9	228.5	-3.1	0.282
4-2540	4-4040	0.725	36.4	13.3	-0.75	1.294	123.0	0.795	3.257	283.8	552.9	0.669	5.845	-1.06	0.262	51.8	229.6	-3.1	0.286
4-2540	4-4060	0.737	37.2	13.5	-0.78	1.295	123.7	0.799	3.271	282.4	553.1	0.657	5.884	-1.06	0.263	50.7	230.6	-3.1	0.290
4-2540	4-4080	0.749	37.9	13.7	-0.81	1.295	124.3	0.803	3.285	281.0	553.3	0.646	5.923	-1.06	0.265	49.7	231.7	-3.1	0.294
4-2540	4-4100	0.761	38.7	13.9	-0.84	1.296	125.1	0.808	3.298	279.6	553.5	0.634	5.963	-1.06	0.267	48.7	232.8	-3.2	0.297
4-2540	4-4120	0.774	39.4	14.1	-0.87	1.296	125.8	0.812	3.312	278.2	553.7	0.622	6.003	-1.06	0.268	47.7	234.0	-3.2	0.301
4-2540	4-4140	0.787	40.1	14.4	-0.90	1.297	126.5	0.817	3.327	276.8	553.8	0.609	6.044	-1.07	0.270	46.7	235.1	-3.2	0.305
4-2550	4-2910	0.648	22.3	0.5	-3.92	1.452	110.8	1.118	-7.582	320.8	483.7	0.891	---	3.12	0.731	157.8	246.9	-1.6	0.692
4-2550	4-2930	0.613	22.0	-0.9	-4.30	1.428	109.6	1.05516	.460	321.8	486.6	0.900	---	3.49	0.680	156.3	247.2	-1.3	0.641
4-2550	4-2950	0.584	21.9	-2.6	-4.77	1.407	108.6	1.00130	.922	322.8	489.3	0.908	---	3.95	0.635	154.8	247.5	-1.0	0.595
4-2550	4-2970	0.560	22.0	-4.6	-5.39	1.389	107.7	0.95620	.841	323.7	492.1	0.915	---	4.55	0.595	153.1	247.6	-0.6	0.554
4-2550	4-2990	0.540	22.4	-7.1	-6.24	1.374	106.9	0.91711	.138	324.5	494.7	0.922	---	5.38	0.558	151.5	247.7	-0.1	0.516
4-2550	4-3010	0.526	23.4	-10.5	-7.45	1.361	106.2	0.884	7.988	325.3	497.3	0.927	---	6.58	0.525	149.7	247.7	0.8	0.483
4-2550	4-3030	0.522	25.4	-15.2	-9.36	1.350	105.6	0.855	6.440	326.1	499.9	0.932	---	8.48	0.495	147.9	247.5	2.1	0.453
4-2550	4-3050	0.536	29.7	-22.6	-12.79	1.340	105.0	0.831	5.526	326.7	502.3	0.936	---	11.90	0.468	146.0	247.0	4.4	0.428
4-2550	4-3070	0.612	41.4	-35.2	-20.66	1.332	104.6	0.809	4.927	327.4	504.7	0.940	---	19.75	0.444	144.0	245.6	9.5	0.414
4-2550	4-3090	1.075	87.4	-45.8	-51.42	1.325	104.0	0.791	4.508	328.1	506.9	0.944	---	50.49	0.421	142.0	236.9	22.4	0.475
4-2550	4-3110	0.895	337.7	77.8	40.49	1.319	104.0	0.775	4.201	327.8	509.2	0.943	---	-41.43	0.401	139.9	237.8	-26.2	0.428
4-2550	4-3130	0.545	356.2	46.8	17.00	1.314	103.6	0.762	3.968	328.3	511.3	0.946	---	-17.96	0.383	137.8	243.8	-15.9	0.350
4-2550	4-3150	0.470	1.7	32.5	10.27	1.309	103.4	0.750	3.787	328.6	513.3	0.948	---	-11.24	0.366	135.6	244.2	-11.7	0.322
4-2550	4-3170	0.442	4.4	25.0	7.18	1.305	103.2	0.740	3.644	328.8	515.3	0.949	---	-8.17	0.351	133.3	243.8	-9.6	0.303
4-2550	4-3190	0.428	6.1	20.4	5.42	1.302	103.1	0.731	3.529	328.9	517.1	0.950	---	-6.41	0.338	131.0	243.0	-8.4	0.288

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2560	4-3540	0.386	19.3	9.1	0.28	1.283	102.0	0.686	3.055	330.3	539.2	0.959	---	-1.54	0.247	91.8	223.8	-4.1	0.196
4-2560	4-3560	0.390	20.3	9.2	0.19	1.283	102.4	0.687	3.056	329.4	540.1	0.956	5.156	-1.46	0.246	89.9	223.0	-3.9	0.197
4-2560	4-3580	0.395	21.2	9.3	0.11	1.283	102.7	0.689	3.059	328.6	540.9	0.953	5.165	-1.40	0.246	88.0	222.4	-3.8	0.198
4-2560	4-3600	0.400	22.2	9.4	0.03	1.284	103.1	0.690	3.063	327.7	541.7	0.949	5.176	-1.33	0.246	86.2	221.8	-3.7	0.199
4-2560	4-3620	0.405	23.2	9.6	-0.03	1.284	103.5	0.692	3.068	326.8	542.5	0.946	5.189	-1.28	0.245	84.4	221.4	-3.6	0.201
4-2560	4-3640	0.410	24.2	9.8	-0.09	1.284	103.9	0.693	3.073	325.9	543.3	0.942	5.204	-1.23	0.246	82.7	221.1	-3.5	0.203
4-2560	4-3660	0.416	25.2	10.0	-0.15	1.284	104.3	0.695	3.080	325.0	544.0	0.938	5.221	-1.18	0.246	81.1	220.8	-3.4	0.205
4-2560	4-3680	0.422	26.1	10.2	-0.20	1.285	104.7	0.697	3.087	324.0	544.7	0.934	5.240	-1.14	0.246	79.4	220.7	-3.3	0.207
4-2560	4-3700	0.428	27.1	10.4	-0.25	1.285	105.1	0.700	3.095	323.0	545.3	0.929	5.260	-1.11	0.247	77.9	220.6	-3.3	0.209
4-2560	4-3720	0.435	28.1	10.6	-0.30	1.285	105.5	0.702	3.103	322.0	546.0	0.925	5.282	-1.07	0.248	76.4	220.7	-3.2	0.212
4-2560	4-3740	0.441	29.1	10.9	-0.34	1.286	106.0	0.704	3.112	321.0	546.6	0.920	5.304	-1.04	0.248	74.9	220.8	-3.2	0.214
4-2560	4-3760	0.448	30.1	11.1	-0.38	1.286	106.5	0.707	3.122	319.9	547.2	0.915	5.328	-1.02	0.249	73.5	221.0	-3.1	0.217
4-2560	4-3780	0.455	31.1	11.4	-0.42	1.286	106.9	0.710	3.131	318.9	547.8	0.909	5.353	-0.99	0.250	72.1	221.3	-3.1	0.220
4-2560	4-3800	0.463	32.0	11.7	-0.46	1.287	107.4	0.712	3.142	317.8	548.3	0.904	5.380	-0.97	0.251	70.8	221.6	-3.1	0.223
4-2560	4-3820	0.470	33.0	11.9	-0.49	1.287	107.9	0.715	3.152	316.7	548.8	0.898	5.407	-0.94	0.252	69.5	222.0	-3.0	0.226
4-2560	4-3840	0.478	34.0	12.2	-0.53	1.288	108.4	0.718	3.163	315.5	549.3	0.892	5.435	-0.92	0.254	68.2	222.5	-3.0	0.229
4-2560	4-3860	0.486	34.9	12.5	-0.56	1.288	108.9	0.721	3.175	314.4	549.8	0.886	5.464	-0.91	0.255	67.0	223.0	-3.0	0.232
4-2560	4-3880	0.495	35.9	12.7	-0.59	1.288	109.4	0.724	3.186	313.2	550.3	0.879	5.493	-0.89	0.256	65.8	223.6	-3.0	0.235
4-2560	4-3900	0.503	36.8	13.0	-0.62	1.289	110.0	0.727	3.198	312.1	550.7	0.872	5.524	-0.87	0.257	64.7	224.3	-3.0	0.238
4-2560	4-3920	0.512	37.7	13.3	-0.65	1.289	110.5	0.730	3.210	310.9	551.1	0.865	5.555	-0.86	0.259	63.5	224.9	-3.0	0.241
4-2560	4-3940	0.521	38.7	13.5	-0.67	1.290	111.0	0.734	3.223	309.7	551.5	0.858	5.587	-0.85	0.260	62.4	225.7	-3.0	0.244
4-2560	4-3960	0.530	39.6	13.8	-0.70	1.290	111.6	0.737	3.235	308.5	551.9	0.851	5.619	-0.83	0.261	61.4	226.5	-3.0	0.247
4-2560	4-3980	0.539	40.5	14.0	-0.73	1.291	112.2	0.740	3.248	307.2	552.3	0.843	5.653	-0.82	0.263	60.3	227.3	-3.0	0.250
4-2560	4-4000	0.549	41.4	14.3	-0.75	1.291	112.7	0.744	3.261	306.0	552.6	0.835	5.686	-0.81	0.264	59.3	228.1	-3.0	0.254
4-2560	4-4020	0.558	42.3	14.6	-0.77	1.292	113.3	0.747	3.274	304.7	553.0	0.827	5.721	-0.80	0.266	58.3	229.0	-3.0	0.257
4-2560	4-4040	0.568	43.2	14.8	-0.80	1.292	113.9	0.751	3.287	303.5	553.3	0.818	5.755	-0.79	0.267	57.3	230.0	-3.0	0.260
4-2560	4-4060	0.578	44.1	15.1	-0.82	1.293	114.5	0.755	3.300	302.2	553.6	0.810	5.791	-0.79	0.269	56.3	230.9	-3.0	0.263
4-2560	4-4080	0.588	45.0	15.3	-0.84	1.293	115.1	0.758	3.314	300.9	553.9	0.801	5.827	-0.78	0.270	55.4	231.9	-3.1	0.267
4-2560	4-4100	0.599	45.9	15.5	-0.87	1.294	115.7	0.762	3.327	299.6	554.2	0.791	5.863	-0.77	0.272	54.5	232.9	-3.1	0.270
4-2560	4-4120	0.610	46.8	15.8	-0.89	1.294	116.3	0.766	3.341	298.3	554.4	0.782	5.900	-0.77	0.273	53.6	234.0	-3.1	0.273
4-2560	4-4140	0.620	47.7	16.0	-0.91	1.295	117.0	0.770	3.354	296.9	554.7	0.772	5.937	-0.76	0.275	52.7	235.0	-3.1	0.276
4-2560	4-4160	0.631	48.5	16.2	-0.93	1.295	117.6	0.774	3.368	295.6	554.9	0.762	5.974	-0.76	0.276	51.8	236.1	-3.1	0.280
4-2570	4-2890	0.612	24.3	5.3	-1.89	1.505	104.7	1.282-3.393		334.0	475.9	0.957	---	0.90	0.835	159.1	248.6	-2.5	0.789
4-2570	4-2910	0.569	23.2	4.4	-1.94	1.472	103.5	1.188-5.129		335.2	479.0	0.964	---	0.94	0.773	157.8	249.0	-2.5	0.726
4-2570	4-2930	0.532	22.0	3.5	-1.99	1.444	102.4	1.110-8.841		336.4	482.0	0.970	---	0.99	0.718	156.4	249.3	-2.4	0.670
4-2570	4-2950	0.501	20.9	2.6	-2.05	1.420	101.4	1.04422.032		337.6	485.0	0.976	---	1.03	0.669	154.9	249.5	-2.4	0.620
4-2570	4-2970	0.474	19.8	1.7	-2.12	1.400	100.6	0.98991.245		338.7	488.0	0.980	---	1.09	0.625	153.3	249.7	-2.3	0.576
4-2570	4-2990	0.451	18.8	0.8	-2.19	1.383	99.8	0.94317.173		339.8	490.8	0.985	---	1.15	0.586	151.7	249.9	-2.3	0.535
4-2570	4-3010	0.432	17.8	-0.1	-2.27	1.369	99.1	0.90310.196		340.8	493.6	0.988	---	1.22	0.550	150.0	249.9	-2.2	0.499
4-2570	4-3030	0.415	17.0	-1.0	-2.36	1.356	98.5	0.869	7.586	341.7	496.4	0.991	---	1.30	0.518	148.3	249.9	-2.1	0.466
4-2570	4-3050	0.401	16.2	-2.0	-2.46	1.346	98.0	0.841	6.230	342.5	499.0	0.993	---	1.39	0.489	146.5	249.7	-2.0	0.436
4-2570	4-3070	0.389	15.5	-2.9	-2.58	1.336	97.5	0.816	5.406	343.3	501.5	0.996	---	1.50	0.463	144.6	249.5	-1.9	0.409
4-2570	4-3090	0.379	15.0	-3.9	-2.71	1.329	97.1	0.795	4.856	343.9	504.0	0.997	---	1.63	0.440	142.6	249.2	-1.7	0.385
4-2570	4-3110	0.370	14.6	-4.9	-2.88	1.322	96.8	0.776	4.466	344.5	506.3	0.999	---	1.79	0.418	140.6	248.8	-1.5	0.362
4-2570	4-3130	0.363	14.3	-6.0	-3.07	1.316	96.5	0.761	4.178	345.0	508.6	1.000	---	1.97	0.399	138.5	248.3	-1.3	0.342
4-2570	4-3150	0.358	14.3	-7.1	-3.32	1.311	96.3	0.747	3.958	345.4	510.8	1.001	---	2.21	0.381	136.4	247.7	-1.0	0.323
4-2570	4-3170	0.353	14.4	-8.4	-3.63	1.306	96.1	0.736	3.787	345.7	512.8	1.001	---	2.51	0.366	134.2	247.0	-0.7	0.306
4-2570	4-3190	0.351	14.8	-10.0	-4.03	1.303	95.9	0.726	3.650	345.9	514.8	1.002	---	2.91	0.351	132.0	246.1	-0.2	0.291
4-2570	4-3210	0.350	15.6	-12.0	-4.59	1.299	95.8	0.717	3.540	346.0	516.7	1.002	---	3.45	0.338	129.7	245.2	0.5	0.277
4-2570	4-3230	0.351	16.9	-14.8	-5.40	1.297	95.8	0.710	3.451	346.1	518.5	1.002	---	4.26	0.327	127.4	244.2	1.4	0.265
4-2570	4-3250	0.357	19.2	-18.9	-6.70	1.294	95.8	0.703	3.378	346.1	520.3	1.002	---	5.55	0.316	125.1	243.1	2.9	0.255
4-2570	4-3270	0.376	23.5	-25.9	-9.13	1.292	95.8	0.698	3.317	346.0	522.0	1.002	---	7.97	0.307	122.7	241.8	5.6	0.247
4-2570	4-3290	0.444	34.8	-39.6	-15.22	1.290	95.8	0.693	3.267	345.8	523.6	1.002	---	14.05	0.298	120.4	240.0	11.9	0.248
4-2570	4-3310	1.016	103.2	-55.7	-50.65	1.289	95.8	0.689	3.226	345.8	525.1	1.002	---	49.47	0.291	118.0	231.8	30.1	0.363
4-2570	4-3330	0.547	333.1	62.1	22.50	1.287	96.0	0.686	3.192	345.1	526.5	1.001	---	-23.68	0.284	115.7	234.8	-25.8	0.260
4-2570	4-3350	0.375	356.2	35.3	9.29	1.286	96.1	0.684	3.163	344.9	527.9	1.001	---	-10.48	0.278	113.3	235.8	-14.6	0.222
4-2570	4-3370	0.345	2.5	23.8	5.49	1.285	96.3	0.682	3.140	344.5	529.3	1.000	---	-6.70	0.273	111.0	234.8	-10.6	0.212
4-2570	4-3390	0.336	5.8	18.0	3.71	1.285	96.4	0.680	3.121	344.0	530.6	0.999	---	-4.92	0.268	108.7	233.6	-8.5	0.206
4-2570	4-3410	0.334	8.0	14.7	2.67	1.284	96.6	0.679	3.106	343.6	531.8	0.998	---	-3.89	0.264	106.5	232.3	-7.3	0.202
4-2570	4-3430	0.333	9.8	12.6	2.00	1.284	96.9	0.678	3.094	343.0	533.0	0.997	---	-3.23	0.261	104.3	231.1	-6.5	0.199
4-2570	4-3450	0.334	11.3	11.2	1.52	1.283	97.1	0.677	3.085	342.4	534.1	0.996	---	-2.76	0.258	102.1	229.8	-5.9	0.196
4-2570	4-3470	0.335	12.7	10.2	1.16	1.283	97.3	0.677	3.078	341.8	535.2	0.994	---	-2.41	0.256	99.9	228.6	-5.4	0.195
4-2570	4-3490	0.337	14.0	9.6	0.89	1.283	97.6	0.677	3.074	341.1	536.2	0.993	---	-2.14	0.254	97.9	227.5	-5.0	0.193
4-2570	4-3510	0.340	15.3	9.2	0.67	1.283	97.9	0.677	3.071	340.4	537.2	0.991	---	-1.93	0.252	95.8	226.5	-4.7	0.193
4-2570	4-3530	0.342	16.5	9.0	0.49	1.283	98.2	0.678	3.070	339.7	538.2	0.989	---	-1.76	0.251	93.9	225.6	-4.5	0.193
4-2570	4-3550	0.345	17.7	8.8	0.33	1.283	98.5	0.678	3.071	338.9	539.1	0.987	---	-1.61	0.250	91.9	224.7	-4.3	0.193
4-2570	4-3570	0.349	18.9	8.8	0.21	1.283	98.8	0.679	3.073	338.1	540.0	0.985	---	-1.50	0.249	90.1	224.0	-4.1	0.194
4-2570	4-3590	0.352	20.1	8.8	0.10	1.283	99.2	0.680	3.076	337.3	540.8	0.983	5.168	-1.39	0.249	88.3	223.4	-3.9	0.194
4-2570	4-3610	0.356	21.3	8.9	0.00	1.283	99.5	0.682	3.080	336.4	541.6	0.980	5.179	-1.31	0.249	86.5	222.8	-3.7	0.196
4-2570	4-3630	0.360	22.5	9.1	-0.08	1.283	99.9	0.683	3.085	335.5	542.4	0.978	5.192	-1.23	0.249	84.8	222.4	-3.6	0.197
4-2570	4-3650	0.365	23.6	9.3	-0.16	1.284	100.3	0.685	3.091	334.6	543.2	0.975	5.206	-1.16	0.249	83.2	222.1	-3.5	0.199
4-2570	4-3670	0.370	24.8	9.5	-0.23	1.284	100.7	0.686	3.097	333.7	543.9	0.972	5.223	-1.11	0.249	81.6	221.8	-3.4	0.201
4-2570	4-3690	0.375	26.0	9.7	-0.29	1.284	101.1	0.688	3.105	332.7	544.6	0.969	5.241	-1.05	0.250	80.0	221.7	-3.3	0.203
4-2570	4-3710	0.380	27.1	10.0	-0.34	1.284	101.5	0.690	3.113	331.7	545.3	0.965	5.260	-1.01	0.250	78.5	221.6	-3.2	0.205
4-2570	4-3730	0.385	28.3	10.3	-0.39	1.285	101.9	0.692	3.121	330.7	545.9	0.962	5.281	-0.97	0.251	77.1	221.7	-3.2	0.207
4-2570	4-3750	0.391	29.5	10.5	-0.44	1.285	102.4	0.694	3.131	329.7	546.6	0.958	5.303	-0.93	0.252	75.7	221.8	-3.1	0.210
4-2570	4-3770	0.397	30.6	10.8	-0.48	1.285	102.8	0.696	3.140	328.7	547.2	0.954	5.326	-0.89	0.252	74.3	222.0	-3.1	0.212
4-2570	4-3790	0.403	31.8	11.1	-0.52	1.286	103.2	0.698	3.150	327.6	547.7	0.950	5.351	-0.86	0.253	73.0	222.2	-3.0	0.215
4-2570	4-3810	0.410	32.9	11.5	-0.56	1.286	103.7	0.701	3.161	326.5	548.3	0.945	5.376	-0.84	0.254	71.7	222.6	-3.0	0.217
4-2570	4-3830	0.416	34.0	11.8	-0.59	1.287	104.2	0.703	3.171	325.4	548.8	0.941	5.402	-0.81	0.256	70.5	223.0	-3.0	0.220

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2570	4-3850	0.423	35.2	12.1	-0.62	1.287	104.7	0.706	3.183	324.3	549.3	0.936	5.429	-0.79	0.257	69.3	223.4	-3.0	0.223
4-2570	4-3870	0.430	36.3	12.4	-0.66	1.288	105.2	0.709	3.194	323.2	549.8	0.931	5.457	-0.77	0.258	68.1	223.9	-2.9	0.225
4-2570	4-3890	0.437	37.4	12.7	-0.68	1.288	105.7	0.711	3.206	322.1	550.3	0.926	5.486	-0.75	0.259	67.0	224.5	-2.9	0.228
4-2570	4-3910	0.445	38.5	13.0	-0.71	1.288	106.2	0.714	3.218	320.9	550.8	0.920	5.515	-0.73	0.260	65.9	225.1	-2.9	0.231
4-2570	4-3930	0.453	39.6	13.3	-0.74	1.289	106.7	0.717	3.230	319.7	551.2	0.914	5.545	-0.71	0.262	64.8	225.8	-2.9	0.234
4-2570	4-3950	0.461	40.7	13.6	-0.76	1.289	107.2	0.720	3.242	318.6	551.6	0.908	5.576	-0.70	0.263	63.8	226.5	-2.9	0.237
4-2570	4-3970	0.469	41.7	13.9	-0.79	1.290	107.7	0.723	3.255	317.4	552.1	0.902	5.607	-0.68	0.264	62.8	227.3	-2.9	0.240
4-2570	4-3990	0.477	42.8	14.2	-0.81	1.290	108.3	0.726	3.267	316.2	552.4	0.896	5.639	-0.67	0.266	61.8	228.1	-2.9	0.243
4-2570	4-4010	0.486	43.8	14.5	-0.83	1.291	108.8	0.729	3.280	314.9	552.8	0.889	5.671	-0.66	0.267	60.8	228.9	-2.9	0.246
4-2570	4-4030	0.494	44.9	14.8	-0.85	1.291	109.4	0.732	3.293	313.7	553.2	0.882	5.704	-0.65	0.269	59.8	229.8	-2.9	0.249
4-2570	4-4050	0.503	45.9	15.1	-0.87	1.292	109.9	0.735	3.307	312.5	553.5	0.875	5.738	-0.64	0.270	58.9	230.7	-3.0	0.252
4-2570	4-4070	0.513	46.9	15.4	-0.89	1.292	110.5	0.739	3.320	311.2	553.8	0.868	5.772	-0.63	0.272	58.0	231.6	-3.0	0.255
4-2570	4-4090	0.522	47.9	15.7	-0.91	1.293	111.1	0.742	3.333	309.9	554.2	0.860	5.806	-0.62	0.273	57.1	232.6	-3.0	0.258
4-2570	4-4110	0.531	48.9	15.9	-0.93	1.293	111.7	0.745	3.347	308.7	554.5	0.852	5.841	-0.61	0.274	56.2	233.6	-3.0	0.261
4-2570	4-4130	0.541	49.9	16.2	-0.95	1.294	112.2	0.749	3.360	307.4	554.7	0.844	5.877	-0.60	0.276	55.4	234.6	-3.0	0.264
4-2570	4-4150	0.551	50.9	16.4	-0.97	1.294	112.8	0.752	3.374	306.1	555.0	0.836	5.912	-0.60	0.277	54.5	235.6	-3.0	0.267
4-2570	4-4170	0.561	51.8	16.7	-0.98	1.295	113.5	0.756	3.388	304.8	555.3	0.827	5.949	-0.59	0.279	53.7	236.7	-3.1	0.270
4-2580	4-2880	0.605	24.0	5.8	-1.57	1.537	101.1	1.386-2.549		340.9	472.4	0.983	---	0.47	0.892	159.8	249.2	-2.7	0.842
4-2580	4-2900	0.558	22.5	4.9	-1.59	1.497	99.9	1.271-3.655		342.2	475.6	0.989	---	0.49	0.822	158.5	249.6	-2.7	0.772
4-2580	4-2920	0.519	21.0	4.0	-1.61	1.465	98.9	1.176-5.642		343.6	478.7	0.994	---	0.50	0.761	157.1	249.9	-2.7	0.711
4-2580	4-2940	0.486	19.5	3.1	-1.63	1.438	97.9	1.09810.189		344.9	481.9	0.998	---	0.52	0.707	155.7	250.2	-2.7	0.656
4-2580	4-2960	0.457	18.0	2.1	-1.66	1.415	97.0	1.03330.562		346.2	484.9	1.001	---	0.54	0.659	154.2	250.4	-2.6	0.608
4-2580	4-2980	0.434	16.5	1.2	-1.69	1.395	96.2	0.97846.013		347.4	488.0	1.004	---	0.56	0.616	152.7	250.5	-2.6	0.564
4-2580	4-3000	0.414	15.1	0.3	-1.72	1.379	95.5	0.93214.833		348.5	490.9	1.006	---	0.58	0.578	151.1	250.6	-2.6	0.525
4-2580	4-3020	0.397	13.8	-0.6	-1.75	1.365	94.9	0.893	9.440	349.6	493.8	1.008	---	0.60	0.543	149.4	250.6	-2.6	0.489
4-2580	4-3040	0.382	12.5	-1.5	-1.78	1.353	94.4	0.860	7.219	350.5	496.5	1.010	---	0.63	0.512	147.6	250.5	-2.5	0.457
4-2580	4-3060	0.370	11.4	-2.3	-1.82	1.343	93.9	0.832	6.015	351.4	499.2	1.011	---	0.66	0.483	145.7	250.4	-2.5	0.428
4-2580	4-3080	0.360	10.4	-3.0	-1.86	1.334	93.5	0.808	5.267	352.2	501.8	1.012	---	0.70	0.458	143.8	250.1	-2.4	0.401
4-2580	4-3100	0.351	9.6	-3.7	-1.90	1.326	93.1	0.787	4.760	352.9	504.2	1.012	---	0.74	0.435	141.9	249.7	-2.4	0.377
4-2580	4-3120	0.343	8.8	-4.4	-1.95	1.320	92.9	0.770	4.397	353.4	506.6	1.013	---	0.78	0.414	139.8	249.3	-2.3	0.355
4-2580	4-3140	0.337	8.3	-5.0	-2.01	1.314	92.6	0.754	4.127	353.9	508.9	1.013	---	0.83	0.395	137.8	248.7	-2.2	0.335
4-2580	4-3160	0.332	7.8	-5.6	-2.08	1.309	92.4	0.741	3.920	354.3	511.1	1.014	---	0.89	0.378	135.6	248.1	-2.1	0.317
4-2580	4-3180	0.327	7.5	-6.1	-2.15	1.305	92.3	0.730	3.758	354.6	513.1	1.014	---	0.96	0.362	133.4	247.4	-2.0	0.300
4-2580	4-3200	0.324	7.4	-6.6	-2.24	1.301	92.2	0.720	3.628	354.8	515.1	1.014	---	1.05	0.349	131.2	246.5	-1.9	0.286
4-2580	4-3220	0.321	7.4	-7.2	-2.35	1.298	92.1	0.712	3.524	355.0	517.0	1.014	---	1.15	0.336	128.9	245.6	-1.7	0.272
4-2580	4-3240	0.318	7.6	-7.7	-2.47	1.295	92.1	0.705	3.439	355.0	518.8	1.014	---	1.27	0.325	126.6	244.5	-1.5	0.260
4-2580	4-3260	0.317	7.9	-8.3	-2.63	1.293	92.1	0.699	3.369	355.0	520.6	1.014	---	1.42	0.314	124.3	243.4	-1.3	0.249
4-2580	4-3280	0.315	8.5	-9.0	-2.83	1.291	92.1	0.694	3.312	354.9	522.2	1.014	---	1.61	0.305	122.0	242.2	-1.0	0.239
4-2580	4-3300	0.315	9.2	-9.9	-3.09	1.289	92.2	0.689	3.264	354.7	523.8	1.014	---	1.86	0.297	119.7	241.0	-0.6	0.231
4-2580	4-3320	0.315	10.2	-11.1	-3.44	1.288	92.3	0.686	3.225	354.5	525.3	1.014	---	2.22	0.290	117.3	239.7	-0.1	0.223
4-2580	4-3340	0.317	11.5	-12.8	-3.97	1.287	92.4	0.682	3.192	354.2	526.7	1.014	---	2.73	0.284	115.0	238.4	0.6	0.217
4-2580	4-3360	0.321	13.5	-15.5	-4.80	1.286	92.5	0.680	3.166	353.8	528.1	1.014	---	3.56	0.278	112.7	237.0	1.7	0.212
4-2580	4-3380	0.331	16.8	-20.6	-6.36	1.285	92.7	0.678	3.144	353.4	529.4	1.013	---	5.12	0.273	110.4	235.7	3.8	0.208
4-2580	4-3400	0.367	24.5	-32.0	-10.32	1.284	92.8	0.676	3.126	352.9	530.7	1.013	---	9.07	0.269	108.2	234.3	8.6	0.209
4-2580	4-3420	0.778	83.2	-61.3	-37.15	1.284	93.0	0.675	3.112	352.5	531.9	1.012	---	35.90	0.265	105.9	231.0	29.0	0.287
4-2580	4-3440	0.421	342.9	49.5	14.72	1.283	93.3	0.674	3.101	351.8	533.1	1.012	---	-15.98	0.262	103.8	230.4	-21.2	0.217
4-2580	4-3460	0.327	0.2	24.6	5.56	1.283	93.5	0.673	3.093	351.2	534.2	1.011	---	-6.83	0.259	101.6	230.0	-11.1	0.198
4-2580	4-3480	0.315	5.4	16.0	3.07	1.283	93.8	0.673	3.087	350.6	535.3	1.010	---	-4.34	0.257	99.6	229.0	-8.0	0.194
4-2580	4-3500	0.312	8.3	12.1	1.90	1.282	94.1	0.673	3.083	349.9	536.3	1.010	---	-3.18	0.255	97.5	228.0	-6.5	0.192
4-2580	4-3520	0.313	10.5	10.0	1.23	1.282	94.3	0.673	3.081	349.2	537.3	1.009	---	-2.51	0.254	95.6	227.0	-5.6	0.191
4-2580	4-3540	0.314	12.3	8.8	0.79	1.282	94.6	0.673	3.081	348.5	538.2	1.008	---	-2.08	0.253	93.6	226.1	-5.0	0.191
4-2580	4-3560	0.316	13.9	8.1	0.48	1.282	95.0	0.673	3.082	347.7	539.1	1.007	---	-1.78	0.252	91.8	225.3	-4.5	0.191
4-2580	4-3580	0.318	15.5	7.7	0.25	1.282	95.3	0.674	3.084	346.9	540.0	1.005	5.164	-1.55	0.251	90.0	224.6	-4.2	0.191
4-2580	4-3600	0.320	16.9	7.5	0.08	1.283	95.6	0.675	3.088	346.0	540.9	1.004	5.172	-1.38	0.251	88.2	224.0	-3.9	0.192
4-2580	4-3620	0.323	18.4	7.5	-0.07	1.283	96.0	0.676	3.093	345.2	541.7	1.002	5.183	-1.24	0.251	86.5	223.5	-3.7	0.193
4-2580	4-3640	0.326	19.8	7.6	-0.18	1.283	96.3	0.677	3.098	344.3	542.4	1.001	5.195	-1.13	0.251	84.9	223.1	-3.6	0.195
4-2580	4-3660	0.329	21.2	7.8	-0.28	1.283	96.7	0.678	3.104	343.4	543.2	0.999	5.210	-1.04	0.251	83.3	222.8	-3.4	0.196
4-2580	4-3680	0.333	22.6	8.0	-0.36	1.284	97.1	0.680	3.111	342.4	543.9	0.997	5.226	-0.96	0.251	81.8	222.6	-3.3	0.198
4-2580	4-3700	0.336	24.0	8.3	-0.43	1.284	97.5	0.681	3.119	341.5	544.6	0.995	5.244	-0.90	0.252	80.3	222.5	-3.2	0.200
4-2580	4-3720	0.340	25.4	8.6	-0.49	1.284	97.9	0.683	3.127	340.5	545.3	0.992	5.263	-0.84	0.253	78.9	222.4	-3.1	0.202
4-2580	4-3740	0.345	26.8	8.9	-0.55	1.285	98.3	0.684	3.136	339.5	546.0	0.990	5.283	-0.79	0.253	77.5	222.5	-3.0	0.204
4-2580	4-3760	0.349	28.1	9.2	-0.60	1.285	98.7	0.686	3.146	338.5	546.6	0.987	5.305	-0.75	0.254	76.1	222.6	-3.0	0.206
4-2580	4-3780	0.354	29.5	9.6	-0.64	1.285	99.2	0.688	3.156	337.4	547.2	0.984	5.327	-0.71	0.255	74.8	222.8	-2.9	0.208
4-2580	4-3800	0.359	30.9	10.0	-0.68	1.286	99.6	0.690	3.166	336.4	547.8	0.981	5.351	-0.68	0.256	73.6	223.0	-2.9	0.211
4-2580	4-3820	0.364	32.2	10.4	-0.71	1.286	100.1	0.692	3.177	335.3	548.3	0.978	5.375	-0.65	0.257	72.3	223.4	-2.9	0.213
4-2580	4-3840	0.370	33.5	10.8	-0.75	1.286	100.5	0.694	3.188	334.2	548.9	0.974	5.401	-0.62	0.258	71.2	223.8	-2.8	0.216
4-2580	4-3860	0.375	34.9	11.2	-0.78	1.287	101.0	0.697	3.199	333.1	549.4	0.971	5.427	-0.60	0.259	70.0	224.2	-2.8	0.218
4-2580	4-3880	0.381	36.2	11.5	-0.80	1.287	101.5	0.699	3.211	332.0	549.9	0.967	5.454	-0.57	0.261	68.9	224.7	-2.8	0.221
4-2580	4-3900	0.387	37.5	11.9	-0.83	1.288	101.9	0.701	3.222	330.9	550.4	0.963	5.482	-0.55	0.262	67.8	225.3	-2.8	0.223
4-2580	4-3920	0.394	38.8	12.3	-0.85	1.288	102.4	0.704	3.235	329.7	550.9	0.959	5.510	-0.54	0.263	66.8	225.9	-2.8	0.226
4-2580	4-3940	0.400	40.0	12.7	-0.87	1.289	102.9	0.706	3.247	328.6	551.3	0.954	5.539	-0.52	0.264	65.8	226.6	-2.8	0.229
4-2580	4-3960	0.407	41.3	13.1	-0.90	1.289	103.4	0.709	3.259	327.4	551.8	0.950	5.569	-0.51	0.266	64.8	227.3	-2.8	0.231
4-2580	4-3980	0.414	42.5	13.4	-0.92	1.290	103.9	0.711	3.272	326.2	552.2	0.945	5.599	-0.49	0.267	63.8	228.0	-2.8	0.234
4-2580	4-4000	0.422	43.8	13.8	-0.93	1.290	104.5	0.714	3.285	325.1	552.6	0.940	5.630	-0.48	0.268	62.8	228.8	-2.8	0.237
4-2580	4-4020	0.429	45.0	14.2	-0.95	1.291	105.0	0.717	3.298	323.9	553.0	0.934	5.662	-0.47	0.270	61.9	229.6	-2.8	0.239
4-2580	4-4040	0.437	46.2	14.5	-0.97	1.291	105.5	0.720	3.311	322.6	553.3	0.929	5.694	-0.46	0.271	61.0	230.5	-2.8	0.242
4-2580	4-4060	0.445	47.4	14.8	-0.98	1.292	106.1	0.722	3.324	321.4	553.7	0.923	5.726	-0.45	0.273	60.1	231.4	-2.8	0.245
4-2580	4-4080	0.453	48.6	15.2	-1.00	1.292	106.6	0.725	3.338	320.2	554.1	0.917	5.759	-0.44	0.274	59.3	232.3	-2.8	0.248
4-2580	4-4100	0.461	49.7	15.5	-1.01	1.292	107.2	0.728	3.351	318.9	554.4	0.911	5.792	-0.43	0.276	58.4	233.3	-2.9	0.251
4-2580	4-4120	0.470	50.9	15.8	-1.03	1.293	107.7	0.731	3.365	317.7	554.7	0.904	5.826	-0.42	0.277	57.6	234.2	-2.9	0.253

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2580	4-4140	0.478	52.0	16.1	-1.04	1.293	108.3	0.734	3.379	316.4	555.0	0.897	5.860	-0.41	0.278	56.8	235.2	-2.9	0.256
4-2580	4-4160	0.487	53.1	16.4	-1.05	1.294	108.9	0.738	3.392	315.2	555.3	0.890	5.894	-0.41	0.280	56.0	236.3	-2.9	0.259
4-2580	4-4180	0.496	54.2	16.7	-1.07	1.294	109.4	0.741	3.406	313.9	555.6	0.883	5.929	-0.40	0.281	55.2	237.3	-2.9	0.262
4-2590	4-2870	0.610	22.5	5.6	-1.38	1.572	97.2	1.505	-1.987	348.1	469.2	1.003	---	0.16	0.952	160.4	249.6	-2.8	0.900
4-2590	4-2890	0.559	20.7	4.6	-1.39	1.526	96.0	1.364	-2.763	349.6	472.4	1.007	---	0.17	0.874	159.2	250.0	-2.8	0.822
4-2590	4-2910	0.517	18.8	3.6	-1.39	1.488	95.0	1.250	-4.031	351.0	475.7	1.010	---	0.17	0.806	157.9	250.3	-2.8	0.754
4-2590	4-2930	0.482	16.8	2.6	-1.40	1.457	94.0	1.157	-6.427	352.5	479.0	1.012	---	0.17	0.747	156.6	250.6	-2.8	0.694
4-2590	4-2950	0.453	14.9	1.5	-1.41	1.431	93.2	1.081	12.548	353.9	482.2	1.014	---	0.18	0.694	155.1	250.8	-2.8	0.641
4-2590	4-2970	0.429	13.0	0.5	-1.42	1.409	92.4	1.017	59.168	355.3	485.4	1.015	---	0.18	0.647	153.6	251.0	-2.8	0.594
4-2590	4-2990	0.409	11.2	-0.5	-1.42	1.390	91.7	0.964	28.275	356.5	488.5	1.016	---	0.19	0.605	152.1	251.1	-2.8	0.551
4-2590	4-3010	0.392	9.4	-1.4	-1.43	1.374	91.1	0.920	12.624	357.7	491.5	1.016	---	0.19	0.567	150.4	251.1	-2.8	0.513
4-2590	4-3030	0.378	7.8	-2.3	-1.44	1.361	90.5	0.882	8.610	358.8	494.4	1.016	---	0.20	0.533	148.7	251.0	-2.8	0.478
4-2590	4-3050	0.367	6.3	-3.1	-1.45	1.349	90.1	0.850	6.783	359.8	497.2	1.017	---	0.21	0.503	146.9	250.9	-2.8	0.447
4-2590	4-3070	0.357	5.0	-3.8	-1.46	1.339	89.7	0.823	5.748	0.7	139.9	---	---	0.21	0.475	145.1	250.7	-2.8	0.418
4-2590	4-3090	0.349	3.8	-4.5	-1.47	1.331	89.3	0.800	5.086	1.5	142.5	---	---	0.22	0.450	143.1	250.3	-2.7	0.393
4-2590	4-3110	0.342	2.8	-5.1	-1.48	1.323	89.0	0.781	4.630	2.2	145.0	---	---	0.23	0.428	141.1	249.9	-2.7	0.369
4-2590	4-3130	0.336	1.9	-5.6	-1.49	1.317	88.8	0.764	4.300	2.8	147.3	---	---	0.24	0.407	139.1	249.4	-2.7	0.348
4-2590	4-3150	0.330	1.2	-6.0	-1.51	1.312	88.6	0.749	4.052	3.3	149.6	---	---	0.25	0.389	137.0	248.8	-2.7	0.328
4-2590	4-3170	0.326	0.7	-6.4	-1.52	1.307	88.4	0.737	3.861	3.7	151.8	---	---	0.26	0.372	134.8	248.1	-2.6	0.311
4-2590	4-3190	0.322	0.3	-6.7	-1.54	1.303	88.3	0.726	3.710	3.9	153.8	---	---	0.28	0.357	132.6	247.3	-2.6	0.295
4-2590	4-3210	0.319	0.0	-6.9	-1.56	1.300	88.3	0.717	3.590	4.1	155.8	---	---	0.29	0.344	130.4	246.4	-2.5	0.280
4-2590	4-3230	0.316	359.9	-7.1	-1.58	1.297	88.2	0.709	3.493	4.2	157.6	---	---	0.31	0.332	128.1	245.5	-2.5	0.267
4-2590	4-3250	0.314	359.9	-7.2	-1.60	1.294	88.2	0.703	3.414	4.3	159.4	---	---	0.33	0.321	125.8	244.4	-2.4	0.256
4-2590	4-3270	0.311	0.1	-7.3	-1.63	1.292	88.3	0.697	3.349	4.2	161.1	---	---	0.36	0.311	123.5	243.3	-2.4	0.245
4-2590	4-3290	0.310	0.3	-7.4	-1.66	1.290	88.3	0.692	3.295	4.1	162.8	---	---	0.38	0.302	121.2	242.1	-2.3	0.236
4-2590	4-3310	0.308	0.7	-7.4	-1.69	1.288	88.4	0.688	3.251	3.9	164.3	---	---	0.42	0.295	118.8	240.8	-2.2	0.228
4-2590	4-3330	0.306	1.2	-7.4	-1.73	1.287	88.5	0.684	3.214	3.6	165.8	---	---	0.46	0.288	116.5	239.5	-2.1	0.220
4-2590	4-3350	0.305	1.8	-7.4	-1.78	1.286	88.7	0.681	3.184	3.3	167.2	---	---	0.50	0.282	114.2	238.2	-2.0	0.214
4-2590	4-3370	0.304	2.6	-7.4	-1.84	1.285	88.8	0.678	3.160	2.9	168.5	---	---	0.56	0.277	111.9	236.8	-1.9	0.209
4-2590	4-3390	0.303	3.4	-7.4	-1.92	1.284	89.0	0.676	3.140	2.5	169.8	---	---	0.64	0.272	109.6	235.5	-1.7	0.204
4-2590	4-3410	0.303	4.3	-7.5	-2.02	1.284	89.2	0.675	3.124	2.0	171.1	---	---	0.74	0.268	107.4	234.2	-1.5	0.200
4-2590	4-3430	0.303	5.4	-7.7	-2.16	1.283	89.4	0.673	3.111	1.4	172.3	---	---	0.88	0.264	105.2	232.9	-1.3	0.197
4-2590	4-3450	0.303	6.7	-8.1	-2.37	1.283	89.7	0.672	3.102	0.9	173.4	---	---	1.08	0.262	103.1	231.6	-1.0	0.194
4-2590	4-3470	0.303	8.2	-8.9	-2.69	1.282	89.9	0.671	3.095	0.2	174.5	---	---	1.40	0.259	101.0	230.5	-0.5	0.193
4-2590	4-3490	0.305	10.3	-10.7	-3.28	1.282	90.2	0.671	3.090	359.6	535.5	1.017	---	1.99	0.257	99.0	229.4	0.3	0.191
4-2590	4-3510	0.313	13.8	-15.6	-4.74	1.282	90.5	0.671	3.087	358.9	536.5	1.017	---	3.45	0.256	97.0	228.4	2.3	0.191
4-2590	4-3530	0.404	31.2	-41.7	-13.95	1.282	90.7	0.671	3.086	358.1	537.5	1.016	---	12.66	0.254	95.1	227.9	13.6	0.203
4-2590	4-3550	0.322	357.6	26.5	6.13	1.282	91.1	0.671	3.086	357.4	538.4	1.016	---	-7.43	0.253	93.2	226.1	-11.9	0.194
4-2590	4-3570	0.302	6.8	10.3	1.60	1.282	91.4	0.671	3.088	356.6	539.3	1.016	---	-2.90	0.253	91.4	225.5	-6.0	0.190
4-2590	4-3590	0.301	9.9	6.6	0.50	1.282	91.7	0.672	3.091	355.7	540.2	1.015	5.167	-1.80	0.252	89.6	224.9	-4.6	0.190
4-2590	4-3610	0.302	12.1	5.2	0.00	1.282	92.1	0.672	3.096	354.9	541.0	1.015	5.176	-1.31	0.252	87.9	224.4	-3.9	0.191
4-2590	4-3630	0.303	13.9	4.7	-0.28	1.283	92.4	0.673	3.101	354.0	541.8	1.014	5.187	-1.03	0.252	86.3	223.9	-3.5	0.192
4-2590	4-3650	0.305	15.6	4.6	-0.46	1.283	92.8	0.674	3.107	353.1	542.6	1.014	5.200	-0.85	0.252	84.7	223.6	-3.2	0.193
4-2590	4-3670	0.307	17.2	4.7	-0.59	1.283	93.1	0.675	3.114	352.2	543.3	1.013	5.215	-0.72	0.252	83.2	223.3	-3.0	0.195
4-2590	4-3690	0.309	18.8	4.9	-0.68	1.283	93.5	0.676	3.121	351.2	544.0	1.012	5.231	-0.63	0.253	81.7	223.1	-2.9	0.196
4-2590	4-3710	0.311	20.4	5.2	-0.76	1.284	93.9	0.677	3.130	350.3	544.7	1.011	5.248	-0.56	0.253	80.3	223.0	-2.8	0.198
4-2590	4-3730	0.313	22.0	5.6	-0.81	1.284	94.3	0.678	3.138	349.3	545.4	1.009	5.267	-0.50	0.254	78.9	223.0	-2.7	0.200
4-2590	4-3750	0.316	23.5	6.1	-0.86	1.284	94.7	0.680	3.148	348.3	546.0	1.008	5.287	-0.46	0.255	77.5	223.1	-2.7	0.202
4-2590	4-3770	0.319	25.1	6.5	-0.90	1.285	95.2	0.681	3.158	347.3	546.7	1.006	5.309	-0.42	0.256	76.2	223.2	-2.6	0.204
4-2590	4-3790	0.322	26.6	7.0	-0.93	1.285	95.6	0.683	3.168	346.2	547.3	1.005	5.331	-0.39	0.257	75.0	223.4	-2.6	0.206
4-2590	4-3810	0.326	28.2	7.5	-0.96	1.286	96.0	0.684	3.178	345.2	547.9	1.003	5.354	-0.36	0.258	73.8	223.7	-2.6	0.208
4-2590	4-3830	0.330	29.7	8.0	-0.99	1.286	96.5	0.686	3.189	344.1	548.4	1.001	5.378	-0.34	0.259	72.6	224.0	-2.5	0.211
4-2590	4-3850	0.334	31.3	8.6	-1.01	1.287	96.9	0.688	3.201	343.0	549.0	0.999	5.403	-0.32	0.260	71.5	224.5	-2.5	0.213
4-2590	4-3870	0.338	32.8	9.1	-1.03	1.287	97.4	0.690	3.212	341.9	549.5	0.996	5.429	-0.30	0.261	70.4	224.9	-2.5	0.215
4-2590	4-3890	0.342	34.3	9.6	-1.05	1.287	97.8	0.692	3.224	340.8	550.0	0.994	5.455	-0.29	0.263	69.4	225.4	-2.5	0.218
4-2590	4-3910	0.347	35.8	10.1	-1.06	1.288	98.3	0.694	3.236	339.7	550.5	0.991	5.482	-0.27	0.264	68.3	226.0	-2.5	0.220
4-2590	4-3930	0.352	37.3	10.6	-1.08	1.288	98.8	0.696	3.249	338.6	551.0	0.988	5.510	-0.26	0.265	67.3	226.6	-2.5	0.222
4-2590	4-3950	0.357	38.8	11.1	-1.09	1.289	99.3	0.698	3.261	337.4	551.4	0.985	5.538	-0.25	0.267	66.4	227.3	-2.5	0.225
4-2590	4-3970	0.363	40.3	11.6	-1.10	1.289	99.7	0.700	3.274	336.3	551.9	0.981	5.567	-0.24	0.268	65.4	228.0	-2.5	0.227
4-2590	4-3990	0.368	41.7	12.1	-1.11	1.290	100.2	0.703	3.287	335.1	552.3	0.978	5.597	-0.23	0.269	64.5	228.7	-2.6	0.230
4-2590	4-4010	0.374	43.2	12.5	-1.12	1.290	100.7	0.705	3.300	333.9	552.7	0.974	5.627	-0.22	0.271	63.6	229.5	-2.6	0.232
4-2590	4-4030	0.380	44.6	13.0	-1.13	1.291	101.2	0.707	3.313	332.7	553.1	0.970	5.657	-0.22	0.272	62.7	230.3	-2.6	0.235
4-2590	4-4050	0.387	46.0	13.4	-1.14	1.291	101.8	0.710	3.327	331.5	553.5	0.966	5.688	-0.21	0.273	61.9	231.2	-2.6	0.237
4-2590	4-4070	0.394	47.4	13.9	-1.15	1.292	102.3	0.712	3.340	330.3	553.9	0.961	5.719	-0.20	0.275	61.0	232.1	-2.6	0.240
4-2590	4-4090	0.400	48.8	14.3	-1.16	1.292	102.8	0.715	3.354	329.1	554.2	0.957	5.751	-0.20	0.276	60.2	233.0	-2.6	0.242
4-2590	4-4110	0.407	50.1	14.7	-1.17	1.292	103.3	0.717	3.367	327.9	554.6	0.952	5.783	-0.19	0.278	59.4	233.9	-2.7	0.245
4-2590	4-4130	0.415	51.5	15.1	-1.17	1.293	103.9	0.720	3.381	326.7	554.9	0.947	5.816	-0.19	0.279	58.6	234.9	-2.7	0.248
4-2590	4-4150	0.422	52.8	15.4	-1.18	1.293	104.4	0.723	3.395	325.4	555.2	0.941	5.849	-0.18	0.281	57.9	235.9	-2.7	0.250
4-2590	4-4170	0.430	54.1	15.8	-1.19	1.294	105.0	0.726	3.409	324.2	555.6	0.936	5.882	-0.18	0.282	57.1	236.9	-2.7	0.253
4-2590	4-4190	0.438	55.4	16.2	-1.19	1.294	105.5	0.728	3.423	322.9	555.9	0.930	5.916	-0.18	0.284	56.4	237.9	-2.8	0.255
4-2600	4-2860	0.632	20.0	4.9	-1.27	1.612	92.7	1.641	-1.584	355.7	466.3	1.015	---	-0.08	1.017	161.1	249.9	-2.9	0.963
4-2600	4-2880	0.577	17.8	3.8	-1.27	1.559	91.6	1.469	-2.166	357.2	469.7	1.016	---	-0.08	0.930	159.9	250.3	-2.9	0.877
4-2600	4-2900	0.532	15.5	2.7	-1.27	1.515	90.7	1.332	-3.059	358.8	473.1	1.017	---	-0.08	0.854	158.7	250.6	-2.9	0.801
4-2600	4-2920	0.496	13.1	1.5	-1.27	1.478	89.8	1.222	-4.575	0.4	116.5	---	---	-0.09	0.788	157.4	250.9	-2.9	0.735
4-2600	4-2940	0.466	10.8	0.4	-1.26	1.448	88.9	1.133	-7.668	2.0	119.9	---	---	-0.09	0.730	156.1	251.1	-2.9	0.677
4-2600	4-2960	0.442	8.5	-0.7	-1.26	1.423	88.2	1.059	17.235	3.5	123.2	---	---	-0.09	0.678	154.6	251.2	-2.9	0.625
4-2600	4-2980	0.422	6.4	-1.8	-1.26	1.402	87.5	0.998	68.020	4.9	126.5	---	---	-0.09	0.632	153.1	251.3	-3.0	0.579
4-2600	4-3000	0.406	4.4	-2.8	-1.25	1.384	86.9	0.948	19.369	6.3	129.6	---	---	-0.09	0.591	151.5	251.3	-3.0	0.537
4-2600	4-3020	0.393	2.5	-3.7	-1.25	1.369	86.4	0.905	10.706	7.5	132.7	---	---	-0.09	0.554	149.9	251.3	-3.0	0.500
4-2600	4-3040	0.382	0.8	-4.5	-1.25	1.356	86.0	0.870	7.777	8.7	135.6	---	---	-0.10	0.521	148.1	251.1	-3.0	0.466

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2600	4-3060	0.373	359.2	-5.2	-1.24	1.345	85.6	0.840	6.315	9.7	138.4	---	---	-0.10	0.492	146.3	250.9	-3.0	0.436
4-2600	4-3080	0.366	357.9	-5.8	-1.24	1.335	85.2	0.815	5.446	10.6	141.1	---	---	-0.10	0.465	144.4	250.6	-3.0	0.408
4-2600	4-3100	0.359	356.7	-6.4	-1.23	1.327	85.0	0.793	4.875	11.4	143.7	---	---	-0.10	0.440	142.5	250.2	-3.0	0.383
4-2600	4-3120	0.354	355.7	-6.8	-1.23	1.320	84.7	0.775	4.474	12.1	146.2	---	---	-0.11	0.419	140.5	249.8	-3.0	0.361
4-2600	4-3140	0.349	354.8	-7.2	-1.22	1.315	84.6	0.759	4.180	12.8	148.5	---	---	-0.11	0.399	138.4	249.2	-3.0	0.340
4-2600	4-3160	0.345	354.2	-7.5	-1.22	1.309	84.4	0.746	3.957	13.1	150.7	---	---	-0.11	0.381	136.2	248.5	-2.9	0.321
4-2600	4-3180	0.342	353.7	-7.8	-1.21	1.305	84.3	0.734	3.784	13.4	152.9	---	---	-0.12	0.365	134.0	247.8	-2.9	0.305
4-2600	4-3200	0.338	353.3	-7.9	-1.21	1.301	84.3	0.725	3.647	13.7	154.9	---	---	-0.12	0.351	131.8	246.9	-2.9	0.289
4-2600	4-3220	0.335	353.1	-8.0	-1.20	1.298	84.2	0.716	3.538	13.8	156.8	---	---	-0.13	0.338	129.5	246.0	-2.9	0.275
4-2600	4-3240	0.333	353.0	-8.1	-1.19	1.295	84.3	0.709	3.449	13.9	158.6	---	---	-0.13	0.326	127.2	244.9	-2.9	0.263
4-2600	4-3260	0.330	353.0	-8.1	-1.19	1.293	84.3	0.702	3.377	13.9	160.4	---	---	-0.14	0.315	124.9	243.8	-2.9	0.252
4-2600	4-3280	0.328	353.1	-8.0	-1.18	1.291	84.4	0.697	3.317	13.8	162.0	---	---	-0.15	0.306	122.6	242.6	-2.9	0.242
4-2600	4-3300	0.325	353.4	-7.9	-1.17	1.289	84.5	0.692	3.268	13.6	163.6	---	---	-0.15	0.298	120.2	241.4	-2.9	0.233
4-2600	4-3320	0.323	353.7	-7.7	-1.16	1.287	84.6	0.688	3.228	13.3	165.1	---	---	-0.16	0.291	117.9	240.1	-2.8	0.225
4-2600	4-3340	0.321	354.1	-7.5	-1.15	1.286	84.7	0.685	3.195	13.0	166.5	---	---	-0.17	0.284	115.5	238.8	-2.8	0.218
4-2600	4-3360	0.319	354.7	-7.3	-1.14	1.285	84.9	0.682	3.168	12.7	167.9	---	---	-0.18	0.278	113.2	237.5	-2.8	0.212
4-2600	4-3380	0.317	355.3	-7.0	-1.12	1.284	85.1	0.680	3.146	12.2	169.2	---	---	-0.20	0.274	111.0	236.2	-2.8	0.207
4-2600	4-3400	0.315	355.9	-6.7	-1.11	1.284	85.3	0.678	3.128	11.7	170.5	---	---	-0.21	0.269	108.7	234.9	-2.8	0.203
4-2600	4-3420	0.313	356.7	-6.3	-1.09	1.283	85.5	0.676	3.114	11.2	171.7	---	---	-0.23	0.266	106.5	233.6	-2.8	0.199
4-2600	4-3440	0.312	357.5	-5.8	-1.06	1.283	85.7	0.675	3.103	10.6	172.8	---	---	-0.25	0.262	104.3	232.3	-2.8	0.196
4-2600	4-3460	0.310	358.4	-5.4	-1.04	1.282	86.0	0.674	3.095	10.0	173.9	---	---	-0.28	0.260	102.2	231.1	-2.8	0.194
4-2600	4-3480	0.308	359.3	-4.8	-1.00	1.282	86.2	0.673	3.090	9.4	175.0	---	---	-0.31	0.258	100.2	230.0	-2.8	0.192
4-2600	4-3500	0.307	0.3	-4.2	-0.96	1.282	86.5	0.672	3.086	8.7	176.0	---	---	-0.35	0.256	98.1	229.0	-2.8	0.191
4-2600	4-3520	0.305	1.4	-3.6	-0.91	1.282	86.8	0.672	3.085	8.0	176.9	---	---	-0.40	0.255	96.2	228.0	-2.8	0.190
4-2600	4-3540	0.304	2.4	-2.8	-0.83	1.282	87.1	0.671	3.085	7.2	177.9	---	---	-0.48	0.253	94.3	227.1	-2.9	0.190
4-2600	4-3560	0.303	3.4	-1.9	-0.73	1.282	87.4	0.671	3.086	6.4	178.8	---	---	-0.58	0.253	92.5	226.3	-3.0	0.190
4-2600	4-3580	0.302	4.4	-0.7	-0.56	1.282	87.8	0.672	3.089	5.6	179.7	---	---	-0.75	0.252	90.7	225.6	-3.2	0.190
4-2600	4-3600	0.301	5.3	1.1	-0.26	1.282	88.1	0.672	3.093	4.7	180.5	---	5.171	-1.04	0.252	89.0	225.0	-3.5	0.190
4-2600	4-3620	0.301	5.5	4.3	0.42	1.282	88.4	0.672	3.098	3.9	181.3	---	5.181	-1.72	0.252	87.3	224.4	-4.4	0.191
4-2600	4-3640	0.308	1.3	17.3	3.63	1.283	88.8	0.673	3.104	3.0	182.1	---	5.193	-4.94	0.252	85.8	223.9	-8.5	0.194
4-2600	4-3660	0.330	20.5	-22.0	-6.98	1.283	89.2	0.673	3.111	2.0	182.8	---	5.206	5.67	0.252	84.2	224.2	5.1	0.196
4-2600	4-3680	0.306	15.7	-7.6	-3.11	1.283	89.6	0.674	3.119	1.1	183.5	---	5.221	1.81	0.253	82.7	223.7	0.2	0.195
4-2600	4-3700	0.304	16.0	-4.1	-2.38	1.283	89.9	0.675	3.127	0.1	184.2	---	5.237	1.08	0.254	81.3	223.5	-0.7	0.196
4-2600	4-3720	0.303	17.0	-2.3	-2.07	1.284	90.3	0.676	3.136	359.2	544.9	1.017	5.255	0.77	0.254	79.9	223.4	-1.1	0.198
4-2600	4-3740	0.303	18.3	-0.9	-1.90	1.284	90.7	0.677	3.145	358.2	545.6	1.017	5.274	0.60	0.255	78.6	223.4	-1.4	0.200
4-2600	4-3760	0.304	19.7	0.2	-1.79	1.285	91.1	0.678	3.155	357.2	546.2	1.016	5.294	0.49	0.256	77.3	223.5	-1.5	0.201
4-2600	4-3780	0.305	21.2	1.1	-1.71	1.285	91.6	0.679	3.165	356.1	546.8	1.016	5.315	0.42	0.257	76.1	223.7	-1.6	0.203
4-2600	4-3800	0.306	22.8	2.0	-1.66	1.285	92.0	0.680	3.176	355.1	547.4	1.015	5.337	0.36	0.258	74.9	223.9	-1.7	0.205
4-2600	4-3820	0.308	24.3	2.9	-1.61	1.286	92.4	0.682	3.187	354.0	548.0	1.015	5.360	0.32	0.259	73.7	224.2	-1.8	0.207
4-2600	4-3840	0.309	25.9	3.7	-1.58	1.286	92.9	0.683	3.199	353.0	548.6	1.014	5.384	0.29	0.260	72.6	224.6	-1.8	0.209
4-2600	4-3860	0.312	27.6	4.5	-1.55	1.287	93.3	0.685	3.211	351.9	549.1	1.013	5.408	0.26	0.262	71.5	225.0	-1.9	0.212
4-2600	4-3880	0.314	29.2	5.3	-1.53	1.287	93.7	0.686	3.223	350.8	549.6	1.011	5.434	0.24	0.263	70.5	225.5	-1.9	0.214
4-2600	4-3900	0.317	30.9	6.0	-1.51	1.288	94.2	0.688	3.235	349.7	550.1	1.010	5.460	0.22	0.264	69.5	226.0	-2.0	0.216
4-2600	4-3920	0.319	32.5	6.7	-1.49	1.288	94.7	0.689	3.247	348.6	550.6	1.009	5.486	0.21	0.265	68.5	226.6	-2.0	0.218
4-2600	4-3940	0.323	34.2	7.4	-1.48	1.289	95.1	0.691	3.260	347.4	551.1	1.007	5.513	0.19	0.267	67.6	227.3	-2.0	0.220
4-2600	4-3960	0.328	35.8	8.1	-1.47	1.289	95.6	0.693	3.273	346.3	551.5	1.005	5.541	0.18	0.268	66.6	227.9	-2.1	0.223
4-2600	4-3980	0.330	37.5	8.8	-1.46	1.290	96.1	0.695	3.286	345.1	552.0	1.003	5.569	0.17	0.270	65.7	228.6	-2.1	0.225
4-2600	4-4000	0.334	39.1	9.5	-1.45	1.290	96.6	0.697	3.299	344.0	552.4	1.001	5.598	0.16	0.271	64.9	229.4	-2.2	0.227
4-2600	4-4020	0.338	40.8	10.1	-1.44	1.290	97.1	0.699	3.313	342.8	552.8	0.998	5.627	0.15	0.272	64.0	230.2	-2.2	0.230
4-2600	4-4040	0.342	42.4	10.7	-1.43	1.291	97.6	0.701	3.326	341.6	553.3	0.995	5.657	0.15	0.274	63.2	231.0	-2.2	0.232
4-2600	4-4060	0.347	44.0	11.3	-1.42	1.291	98.1	0.703	3.340	340.4	553.7	0.993	5.687	0.14	0.275	62.4	231.8	-2.3	0.234
4-2600	4-4080	0.352	45.7	11.9	-1.41	1.292	98.6	0.705	3.354	339.2	554.0	0.989	5.718	0.14	0.277	61.6	232.7	-2.3	0.236
4-2600	4-4100	0.358	47.3	12.4	-1.41	1.292	99.1	0.707	3.367	338.0	554.4	0.986	5.748	0.13	0.278	60.8	233.6	-2.3	0.239
4-2600	4-4120	0.363	48.8	13.0	-1.40	1.293	99.6	0.709	3.381	336.8	554.8	0.983	5.780	0.13	0.280	60.1	234.6	-2.4	0.241
4-2600	4-4140	0.369	50.4	13.5	-1.40	1.293	100.1	0.712	3.395	335.6	555.1	0.979	5.811	0.12	0.281	59.3	235.5	-2.4	0.243
4-2600	4-4160	0.375	51.9	14.0	-1.39	1.294	100.6	0.714	3.409	334.4	555.4	0.975	5.843	0.12	0.282	58.6	236.5	-2.4	0.246
4-2600	4-4180	0.381	53.5	14.5	-1.39	1.294	101.2	0.716	3.423	333.1	555.8	0.971	5.876	0.11	0.284	57.9	237.5	-2.5	0.248
4-2600	4-4200	0.388	55.0	14.9	-1.38	1.295	101.7	0.719	3.437	331.9	556.1	0.967	5.908	0.11	0.285	57.2	238.5	-2.5	0.251
4-2610	4-2870	0.617	14.3	2.7	-1.21	1.595	86.7	1.585-1.734		5.3	107.3	---	---	-0.30	0.990	160.8	250.4	-3.0	0.936
4-2610	4-2890	0.569	11.6	1.5	-1.20	1.544	85.8	1.421-2.403		7.1	110.9	---	---	-0.30	0.905	159.6	250.7	-3.0	0.852
4-2610	4-2910	0.530	9.0	0.2	-1.19	1.502	85.0	1.291-3.467		8.8	114.5	---	---	-0.30	0.831	158.4	250.9	-3.0	0.779
4-2610	4-2930	0.500	6.5	-1.0	-1.18	1.467	84.3	1.187-5.384		10.5	118.0	---	---	-0.31	0.767	157.1	251.1	-3.0	0.715
4-2610	4-2950	0.476	4.0	-2.1	-1.17	1.439	83.6	1.103-9.785		12.2	121.5	---	---	-0.31	0.710	155.7	251.2	-3.0	0.658
4-2610	4-2970	0.456	1.7	-3.2	-1.16	1.415	83.0	1.03429-730		13.8	124.9	---	---	-0.31	0.660	154.3	251.3	-3.1	0.608
4-2610	4-2990	0.441	359.5	-4.1	-1.15	1.395	82.4	0.97743-462		15.3	128.2	---	---	-0.32	0.615	152.7	251.3	-3.1	0.563
4-2610	4-3010	0.428	357.5	-5.0	-1.14	1.378	82.0	0.93014-242		16.7	131.4	---	---	-0.32	0.575	151.1	251.3	-3.1	0.523
4-2610	4-3030	0.418	355.7	-5.8	-1.13	1.363	81.5	0.891	9.111	18.0	134.5	---	---	-0.33	0.539	149.4	251.1	-3.1	0.487
4-2610	4-3050	0.410	354.2	-6.5	-1.12	1.351	81.2	0.858	6.992	19.1	137.4	---	---	-0.33	0.507	147.6	250.9	-3.1	0.454
4-2610	4-3070	0.403	352.8	-7.1	-1.10	1.340	80.9	0.831	5.843	20.1	140.2	---	---	-0.34	0.478	145.8	250.6	-3.1	0.425
4-2610	4-3090	0.397	351.6	-7.6	-1.09	1.331	80.6	0.808	5.128	21.0	142.9	---	---	-0.34	0.452	143.9	250.2	-3.1	0.398
4-2610	4-3110	0.392	350.6	-8.0	-1.08	1.324	80.4	0.788	4.645	21.7	145.4	---	---	-0.35	0.429	141.9	249.8	-3.1	0.374
4-2610	4-3130	0.388	349.7	-8.3	-1.06	1.317	80.3	0.771	4.300	22.4	147.8	---	---	-0.36	0.407	139.8	249.2	-3.1	0.352
4-2610	4-3150	0.384	349.1	-8.5	-1.05	1.312	80.2	0.757	4.043	22.9	150.1	---	---	-0.37	0.388	137.7	248.5	-3.1	0.333
4-2610	4-3170	0.380	348.5	-8.7	-1.04	1.307	80.1	0.745	3.846	23.3	152.3	---	---	-0.38	0.371	135.5	247.8	-3.2	0.315
4-2610	4-3190	0.377	348.1	-8.9	-1.02	1.303	80.0	0.734	3.693	23.6	154.4	---	---	-0.39	0.356	133.3	246.9	-3.2	0.299
4-2610	4-3210	0.374	347.9	-8.9	-1.00	1.299	80.0	0.725	3.571	23.7	156.3	---	---	-0.40	0.342	131.0	246.0	-3.2	0.284
4-2610	4-3230	0.371	347.7	-9.0	-0.99	1.296	80.1	0.718	3.473	23.8	158.2	---	---	-0.41	0.329	128.7	245.0	-3.2	0.271
4-2610	4-3250	0.368	347.7	-8.9	-0.97	1.293	80.1	0.711	3.394	23.8	159.9	---	---	-0.42	0.318	126.3	243.9	-3.2	0.259
4-2610	4-3270	0.365	347.8	-8.8	-0.95	1.291	80.2	0.705	3.329	23.7	161.6	---	---	-0.44	0.308	123.9	242.8	-3.2	0.248
4-2610	4-3290	0.362	347.9	-8.7	-0.93	1.289	80.3	0.700	3.275	23.6	163.2	---	---	-0.45	0.299	121.6	241.6	-3.2	0.239

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2610	4-3310	0.359	348.2	-8.5	-0.91	1.288	80.4	0.696	3.232	23.3	164.7	---	---	-0.47	0.292	119.2	240.3	-3.2	0.231
4-2610	4-3330	0.357	348.5	-8.3	-0.88	1.286	80.6	0.692	3.196	23.0	166.1	---	---	-0.49	0.285	116.8	239.0	-3.2	0.223
4-2610	4-3350	0.354	349.0	-8.1	-0.86	1.285	80.8	0.689	3.167	22.7	167.5	---	---	-0.51	0.279	114.5	237.7	-3.2	0.217
4-2610	4-3370	0.351	349.5	-7.8	-0.83	1.284	81.0	0.686	3.143	22.2	168.8	---	---	-0.53	0.273	112.2	236.4	-3.2	0.212
4-2610	4-3390	0.348	350.0	-7.5	-0.80	1.284	81.2	0.684	3.124	21.8	170.1	---	---	-0.56	0.269	109.9	235.1	-3.2	0.207
4-2610	4-3410	0.345	350.6	-7.1	-0.77	1.283	81.4	0.682	3.109	21.2	171.3	---	---	-0.58	0.265	107.6	233.8	-3.2	0.203
4-2610	4-3430	0.343	351.3	-6.7	-0.73	1.283	81.7	0.680	3.098	20.7	172.4	---	---	-0.62	0.262	105.4	232.6	-3.2	0.200
4-2610	4-3450	0.340	352.1	-6.2	-0.69	1.282	81.9	0.679	3.089	20.0	173.5	---	---	-0.65	0.259	103.2	231.4	-3.2	0.197
4-2610	4-3470	0.337	352.9	-5.7	-0.64	1.282	82.2	0.678	3.083	19.4	174.6	---	---	-0.70	0.257	101.1	230.3	-3.3	0.195
4-2610	4-3490	0.334	353.7	-5.2	-0.59	1.282	82.5	0.677	3.079	18.7	175.6	---	---	-0.74	0.255	99.1	229.2	-3.3	0.193
4-2610	4-3510	0.332	354.6	-4.5	-0.53	1.282	82.8	0.676	3.077	18.0	176.6	---	---	-0.80	0.253	97.1	228.3	-3.3	0.192
4-2610	4-3530	0.329	355.5	-3.9	-0.46	1.282	83.1	0.676	3.077	17.2	177.5	---	---	-0.87	0.252	95.2	227.4	-3.4	0.192
4-2610	4-3550	0.326	356.5	-3.1	-0.37	1.282	83.4	0.675	3.078	16.4	178.4	---	---	-0.94	0.252	93.3	226.6	-3.5	0.191
4-2610	4-3570	0.324	357.5	-2.3	-0.27	1.282	83.7	0.675	3.081	15.6	179.3	---	---	-1.04	0.251	91.5	225.9	-3.6	0.191
4-2610	4-3590	0.321	358.5	-1.3	-0.15	1.282	84.1	0.675	3.085	14.7	180.1	---	5.167	-1.16	0.251	89.8	225.2	-3.7	0.191
4-2610	4-3610	0.319	359.5	-0.2	-0.00	1.282	84.4	0.675	3.090	13.8	180.9	---	5.176	-1.30	0.251	88.1	224.7	-3.9	0.192
4-2610	4-3630	0.317	0.4	1.0	0.19	1.282	84.8	0.675	3.096	12.9	181.7	---	5.186	-1.49	0.251	86.5	224.3	-4.1	0.193
4-2610	4-3650	0.315	1.3	2.6	0.45	1.283	85.2	0.675	3.103	12.0	182.4	---	5.199	-1.75	0.251	85.0	223.9	-4.4	0.194
4-2610	4-3670	0.313	2.1	4.6	0.82	1.283	85.5	0.676	3.111	11.1	183.2	---	5.213	-2.12	0.252	83.5	223.7	-4.8	0.195
4-2610	4-3690	0.312	2.6	7.3	1.39	1.283	85.9	0.676	3.119	10.1	183.9	---	5.228	-2.67	0.252	82.0	223.5	-5.5	0.197
4-2610	4-3710	0.313	2.4	11.6	2.35	1.284	86.3	0.677	3.128	9.2	184.5	---	5.245	-3.63	0.253	80.7	223.4	-6.7	0.199
4-2610	4-3730	0.320	0.3	19.6	4.37	1.284	86.7	0.677	3.138	8.2	185.2	---	5.263	-5.65	0.254	79.3	223.4	-9.1	0.202
4-2610	4-3750	0.378	348.0	41.1	11.32	1.285	87.1	0.678	3.148	7.2	185.8	---	5.283	-12.60	0.255	78.0	223.6	-16.9	0.213
4-2610	4-3770	0.864	91.5	-70.9	-42.17	1.285	87.6	0.679	3.159	6.0	186.4	---	5.303	40.89	0.256	76.8	230.3	29.8	0.306
4-2610	4-3790	0.359	27.6	-28.6	-9.67	1.285	88.0	0.680	3.169	5.0	187.0	---	5.324	8.41	0.257	75.6	224.7	7.9	0.210
4-2610	4-3810	0.325	23.5	-16.0	-5.89	1.286	88.4	0.681	3.181	4.0	187.6	---	5.346	4.63	0.258	74.5	224.6	3.4	0.208
4-2610	4-3830	0.316	23.0	-10.2	-4.45	1.286	88.8	0.682	3.193	2.9	188.2	---	5.369	3.19	0.260	73.4	224.8	1.7	0.209
4-2610	4-3850	0.312	23.5	-6.8	-3.70	1.287	89.2	0.683	3.205	1.9	188.7	---	5.393	2.44	0.261	72.3	225.1	0.7	0.210
4-2610	4-3870	0.310	24.5	-4.3	-3.23	1.287	89.7	0.684	3.217	0.8	189.3	---	5.417	1.98	0.262	71.3	225.6	0.1	0.212
4-2610	4-3890	0.309	25.7	-2.4	-2.91	1.288	90.1	0.685	3.229	359.7	549.8	1.016	5.442	1.66	0.264	70.3	226.1	-0.3	0.214
4-2610	4-3910	0.309	27.1	-0.8	-2.68	1.288	90.6	0.687	3.242	358.6	550.3	1.016	5.468	1.44	0.265	69.3	226.6	-0.6	0.216
4-2610	4-3930	0.309	28.7	0.5	-2.50	1.289	91.0	0.688	3.255	357.4	550.8	1.016	5.494	1.27	0.266	68.4	227.2	-0.8	0.218
4-2610	4-3950	0.310	30.2	1.8	-2.37	1.289	91.5	0.689	3.268	356.3	551.2	1.016	5.521	1.13	0.268	67.5	227.8	-1.0	0.220
4-2610	4-3970	0.311	31.9	2.9	-2.26	1.290	92.0	0.691	3.282	355.2	551.7	1.015	5.548	1.03	0.269	66.6	228.5	-1.2	0.222
4-2610	4-3990	0.312	33.5	4.0	-2.16	1.290	92.4	0.692	3.295	354.0	552.1	1.014	5.576	0.94	0.271	65.8	229.2	-1.3	0.224
4-2610	4-4010	0.314	35.3	5.0	-2.09	1.291	92.9	0.694	3.309	352.9	552.6	1.013	5.604	0.87	0.272	64.9	230.0	-1.4	0.226
4-2610	4-4030	0.316	37.0	5.9	-2.02	1.291	93.4	0.695	3.322	351.7	553.0	1.012	5.633	0.80	0.274	64.1	230.8	-1.5	0.228
4-2610	4-4050	0.319	38.7	6.8	-1.96	1.292	93.9	0.697	3.336	350.5	553.4	1.011	5.662	0.75	0.275	63.4	231.6	-1.6	0.230
4-2610	4-4070	0.321	40.5	7.7	-1.91	1.292	94.4	0.699	3.350	349.3	553.8	1.009	5.691	0.70	0.277	62.6	232.4	-1.7	0.232
4-2610	4-4090	0.324	42.2	8.5	-1.87	1.292	94.9	0.701	3.364	348.1	554.2	1.008	5.721	0.66	0.278	61.9	233.3	-1.8	0.235
4-2610	4-4110	0.328	44.0	9.2	-1.83	1.293	95.4	0.702	3.378	346.9	554.6	1.006	5.751	0.63	0.279	61.1	234.2	-1.8	0.237
4-2610	4-4130	0.331	45.8	10.0	-1.79	1.293	95.9	0.704	3.392	345.7	554.9	1.004	5.781	0.60	0.281	60.4	235.2	-1.9	0.239
4-2610	4-4150	0.335	47.5	10.7	-1.76	1.294	96.4	0.706	3.407	344.5	555.3	1.001	5.812	0.57	0.282	59.7	236.1	-2.0	0.241
4-2610	4-4170	0.339	49.3	11.4	-1.73	1.294	96.9	0.708	3.421	343.3	555.6	0.999	5.843	0.55	0.284	59.1	237.1	-2.0	0.243
4-2610	4-4190	0.344	51.0	12.0	-1.71	1.295	97.4	0.710	3.435	342.1	556.0	0.996	5.875	0.52	0.285	58.4	238.1	-2.1	0.245
4-2610	4-4210	0.349	52.7	12.6	-1.68	1.295	98.0	0.712	3.450	340.8	556.3	0.993	5.906	0.50	0.287	57.8	239.2	-2.1	0.247
4-2620	4-2880	0.631	8.0	0.3	-1.18	1.577	60.5	1.515	-1.928	15.8	109.2	---	---	-0.50	0.960	160.7	250.6	-3.1	0.909
4-2620	4-2900	0.590	5.2	-1.0	-1.16	1.529	79.8	1.363	-2.723	17.7	112.9	---	---	-0.50	0.877	159.5	250.8	-3.1	0.827
4-2620	4-2920	0.558	2.6	-2.1	-1.15	1.489	79.1	1.243	-4.048	19.6	116.6	---	---	-0.50	0.806	158.3	250.9	-3.1	0.756
4-2620	4-2940	0.532	0.1	-3.8	-1.13	1.456	78.5	1.147	-6.654	21.4	120.3	---	---	-0.50	0.743	156.9	251.0	-3.1	0.694
4-2620	4-2960	0.513	357.8	-4.3	-1.11	1.429	78.0	1.070	13.986	23.2	123.8	---	---	-0.51	0.688	155.5	251.1	-3.1	0.639
4-2620	4-2980	0.497	355.6	-5.2	-1.10	1.406	77.5	1.007	44.574	24.9	127.3	---	---	-0.51	0.639	154.0	251.1	-3.1	0.591
4-2620	4-3000	0.484	353.7	-6.0	-1.08	1.387	77.1	0.955	21.580	26.4	130.6	---	---	-0.51	0.596	152.5	251.0	-3.2	0.547
4-2620	4-3020	0.474	352.0	-6.7	-1.06	1.371	76.8	0.913	11.018	27.8	133.8	---	---	-0.52	0.557	150.8	250.8	-3.2	0.509
4-2620	4-3040	0.466	350.6	-7.3	-1.05	1.357	76.4	0.878	7.817	29.0	136.9	---	---	-0.52	0.522	149.1	250.6	-3.2	0.474
4-2620	4-3060	0.459	349.3	-7.8	-1.03	1.345	76.2	0.848	6.282	30.1	139.8	---	---	-0.53	0.491	147.3	250.3	-3.2	0.442
4-2620	4-3080	0.454	348.2	-8.2	-1.01	1.336	76.0	0.824	5.389	31.1	142.5	---	---	-0.54	0.463	145.4	249.9	-3.2	0.414
4-2620	4-3100	0.448	347.2	-8.6	-0.99	1.327	75.8	0.803	4.810	31.9	145.2	---	---	-0.54	0.437	143.4	249.4	-3.2	0.389
4-2620	4-3120	0.444	346.5	-8.8	-0.97	1.320	75.7	0.786	4.408	32.6	147.6	---	---	-0.55	0.415	141.3	248.8	-3.3	0.366
4-2620	4-3140	0.440	345.9	-9.0	-0.95	1.314	75.6	0.771	4.115	33.1	150.0	---	---	-0.56	0.394	139.2	248.2	-3.3	0.345
4-2620	4-3160	0.436	345.4	-9.2	-0.93	1.309	75.6	0.758	3.895	33.6	152.2	---	---	-0.57	0.376	137.0	247.4	-3.3	0.326
4-2620	4-3180	0.433	345.0	-9.3	-0.91	1.304	75.6	0.747	3.725	33.9	154.2	---	---	-0.58	0.359	134.8	246.6	-3.3	0.309
4-2620	4-3200	0.429	344.8	-9.3	-0.89	1.300	75.6	0.738	3.591	34.1	156.2	---	---	-0.59	0.344	132.5	245.7	-3.3	0.293
4-2620	4-3220	0.426	344.7	-9.3	-0.87	1.297	75.7	0.730	3.484	34.2	158.1	---	---	-0.60	0.331	130.1	244.7	-3.3	0.279
4-2620	4-3240	0.422	344.6	-9.3	-0.85	1.294	75.7	0.723	3.398	34.2	159.8	---	---	-0.61	0.319	127.8	243.6	-3.3	0.267
4-2620	4-3260	0.419	344.7	-9.2	-0.82	1.292	75.9	0.717	3.329	34.1	161.5	---	---	-0.63	0.309	125.4	242.5	-3.3	0.256
4-2620	4-3280	0.416	344.8	-9.1	-0.80	1.290	76.0	0.712	3.272	33.9	163.1	---	---	-0.64	0.299	122.9	241.3	-3.3	0.246
4-2620	4-3300	0.412	345.0	-8.9	-0.77	1.288	76.1	0.707	3.225	33.7	164.6	---	---	-0.66	0.291	120.5	240.0	-3.4	0.237
4-2620	4-3320	0.409	345.3	-8.8	-0.75	1.287	76.3	0.703	3.187	33.4	166.0	---	---	-0.68	0.284	118.1	238.8	-3.4	0.230
4-2620	4-3340	0.405	345.7	-8.5	-0.72	1.285	76.5	0.700	3.156	33.0	167.4	---	---	-0.70	0.277	115.7	237.5	-3.4	0.223
4-2620	4-3360	0.402	346.1	-8.3	-0.69	1.284	76.7	0.697	3.131	32.5	168.7	---	---	-0.72	0.272	113.3	236.2	-3.4	0.217
4-2620	4-3380	0.398	346.5	-8.0	-0.65	1.284	77.0	0.694	3.111	32.0	169.9	---	---	-0.74	0.267	110.9	234.9	-3.4	0.212
4-2620	4-3400	0.394	347.1	-7.7	-0.62	1.283	77.2	0.692	3.096	31.5	171.1	---	---	-0.77	0.263	108.6	233.7	-3.4	0.208
4-2620	4-3420	0.391	347.6	-7.3	-0.58	1.283	77.5	0.690	3.083	30.9	172.3	---	---	-0.80	0.259	106.3	232.5	-3.4	0.204
4-2620	4-3440	0.387	348.3	-7.0	-0.54	1.282	77.7	0.688	3.074	30.3	173.3	---	---	-0.83	0.257	104.1	231.3	-3.4	0.201
4-2620	4-3460	0.383	348.9	-6.5	-0.50	1.282	78.0	0.687	3.068	29.6	174.4	---	---	-0.87	0.254	102.0	230.2	-3.4	0.199
4-2620	4-3480	0.379	349.6	-6.1	-0.45	1.282	78.3	0.685	3.064	28.9	175.4	---	---	-0.90	0.252	99.9	229.2	-3.5	0.197
4-2620	4-3500	0.375	350.4	-5.6	-0.40	1.282	78.6	0.684	3.062	28.1	176.3	---	---	-0.95	0.251	97.8	228.2	-3.5	0.196
4-2620	4-3520	0.372	351.2	-5.1	-0.35	1.282	78.9	0.683	3.062	27.4	177.3	---	---	-1.00	0.250	95.9	227.3	-3.5	0.195
4-2620	4-3540	0.368	352.0	-4.5	-0.28	1.282	79.3	0.683	3.064	26.5	178.2	---	---	-1.05	0.249	94.0	226.5	-3.6	0.194

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2620	4-3560	0.364	352.9	-3.9	-0.21	1.282	79.6	0.682	3.066	25.7	179.0	---	---	-1.11	0.249	92.1	225.8	-3.6	0.194
4-2620	4-3580	0.360	353.8	-3.2	-0.14	1.282	80.0	0.682	3.071	24.8	179.8	---	---	-1.18	0.248	90.3	225.2	-3.7	0.194
4-2620	4-3600	0.357	354.7	-2.5	-0.05	1.282	80.3	0.681	3.076	24.0	180.6	---	5.172	-1.26	0.248	88.6	224.7	-3.8	0.194
4-2620	4-3620	0.353	355.7	-1.7	0.05	1.282	80.7	0.681	3.082	23.1	181.4	---	5.182	-1.35	0.249	87.0	224.3	-3.9	0.195
4-2620	4-3640	0.349	356.6	-0.8	0.17	1.283	81.1	0.681	3.089	22.1	182.1	---	5.193	-1.46	0.249	85.4	223.9	-4.0	0.196
4-2620	4-3660	0.346	357.6	0.2	0.30	1.283	81.4	0.681	3.097	21.2	182.9	---	5.207	-1.59	0.250	83.9	223.7	-4.1	0.197
4-2620	4-3680	0.342	358.6	1.3	0.46	1.283	81.8	0.681	3.106	20.2	183.6	---	5.222	-1.74	0.250	82.5	223.5	-4.3	0.198
4-2620	4-3700	0.339	359.5	2.5	0.66	1.284	82.2	0.681	3.115	19.2	184.2	---	5.238	-1.93	0.251	81.1	223.4	-4.5	0.199
4-2620	4-3720	0.336	0.5	3.9	0.90	1.284	82.6	0.682	3.125	18.2	184.9	---	5.255	-2.16	0.252	79.7	223.4	-4.8	0.200
4-2620	4-3740	0.333	1.3	5.6	1.21	1.285	83.0	0.682	3.136	17.2	185.5	---	5.274	-2.46	0.253	78.5	223.4	-5.1	0.202
4-2620	4-3760	0.331	2.0	7.7	1.61	1.285	83.4	0.682	3.147	16.2	186.1	---	5.294	-2.86	0.254	77.2	223.6	-5.6	0.204
4-2620	4-3780	0.329	2.6	10.3	2.17	1.286	83.9	0.683	3.158	15.1	186.7	---	5.314	-3.42	0.255	76.0	223.8	-6.2	0.206
4-2620	4-3800	0.329	2.6	13.9	3.00	1.286	84.3	0.683	3.170	14.1	187.3	---	5.336	-4.24	0.257	74.9	224.0	-7.2	0.208
4-2620	4-3820	0.333	1.8	19.3	4.35	1.286	84.7	0.684	3.182	13.0	187.9	---	5.358	-5.57	0.258	73.8	224.4	-8.7	0.210
4-2620	4-3840	0.347	358.5	28.4	6.92	1.287	85.1	0.685	3.194	11.9	188.4	---	5.381	-8.14	0.259	72.7	224.8	-11.6	0.215
4-2620	4-3860	0.416	345.2	46.3	13.74	1.287	85.6	0.686	3.207	10.9	189.0	---	5.405	-14.96	0.261	71.7	225.8	-18.5	0.228
4-2620	4-3880	1.205	249.1	50.3	62.27	1.288	85.9	0.686	3.219	10.0	189.5	---	5.429	-63.47	0.262	70.7	236.4	-35.7	0.405
4-2620	4-3900	0.520	45.1	-52.1	-21.27	1.288	86.5	0.687	3.233	8.5	190.0	---	5.454	20.07	0.264	69.8	229.1	18.1	0.243
4-2620	4-3920	0.376	32.6	-29.4	-10.71	1.289	87.0	0.688	3.246	7.4	190.5	---	5.479	9.52	0.265	68.9	227.8	8.3	0.224
4-2620	4-3940	0.343	29.8	-18.9	-7.41	1.289	87.4	0.689	3.259	6.3	190.9	---	5.505	6.22	0.267	68.0	228.0	4.7	0.222
4-2620	4-3960	0.330	29.3	-12.9	-5.80	1.290	87.9	0.690	3.273	5.2	191.4	---	5.532	4.62	0.268	67.1	228.5	2.8	0.222
4-2620	4-3980	0.323	29.8	-8.9	-4.85	1.290	88.3	0.691	3.287	4.1	191.9	---	5.559	3.68	0.270	66.3	229.2	1.7	0.224
4-2620	4-4000	0.319	30.7	-6.0	-4.22	1.291	88.8	0.692	3.301	2.9	192.3	---	5.586	3.06	0.271	65.5	229.9	1.0	0.225
4-2620	4-4020	0.316	31.9	-3.7	-3.78	1.291	89.3	0.694	3.315	1.7	192.7	---	5.614	2.62	0.273	64.7	230.6	0.5	0.227
4-2620	4-4040	0.315	33.3	-1.8	-3.45	1.292	89.8	0.695	3.329	0.6	193.1	---	5.642	2.29	0.274	64.0	231.4	0.1	0.229
4-2620	4-4060	0.314	34.8	-0.1	-3.19	1.292	90.2	0.696	3.343	359.4	553.5	1.016	5.671	2.04	0.276	63.2	232.2	-0.2	0.231
4-2620	4-4080	0.314	36.4	1.4	-2.98	1.293	90.7	0.698	3.358	358.2	553.9	1.016	5.700	1.84	0.277	62.5	233.1	-0.5	0.232
4-2620	4-4100	0.314	38.1	2.7	-2.81	1.293	91.2	0.699	3.372	357.0	554.3	1.015	5.729	1.68	0.279	61.8	233.9	-0.7	0.234
4-2620	4-4120	0.315	39.8	3.9	-2.67	1.294	91.7	0.700	3.386	355.8	554.7	1.015	5.758	1.54	0.280	61.1	234.9	-0.9	0.236
4-2620	4-4140	0.316	41.5	5.1	-2.55	1.294	92.2	0.702	3.401	354.6	555.1	1.014	5.788	1.43	0.282	60.5	235.8	-1.1	0.238
4-2620	4-4160	0.317	43.3	6.1	-2.44	1.295	92.7	0.703	3.416	353.4	555.4	1.013	5.818	1.33	0.283	59.8	236.8	-1.2	0.240
4-2620	4-4180	0.319	45.2	7.1	-2.35	1.295	93.2	0.705	3.430	352.2	555.8	1.012	5.849	1.25	0.285	59.2	237.7	-1.3	0.242
4-2620	4-4200	0.322	47.0	8.1	-2.27	1.296	93.7	0.707	3.445	351.0	556.1	1.011	5.879	1.18	0.286	58.6	238.7	-1.4	0.244
4-2620	4-4220	0.324	48.8	9.0	-2.20	1.296	94.2	0.708	3.460	349.8	556.4	1.009	5.910	1.11	0.288	58.0	239.8	-1.5	0.246
4-2630	4-2910	0.640	359.8	-2.9	-1.15	1.513	73.4	1.298	-3.157	29.3	115.8	---	---	-0.69	0.848	159.6	250.5	-3.1	0.802
4-2630	4-2930	0.612	357.4	-4.0	-1.13	1.475	73.0	1.190	-4.905	31.3	119.6	---	---	-0.69	0.778	158.3	250.6	-3.2	0.734
4-2630	4-2950	0.591	355.2	-4.9	-1.10	1.444	72.5	1.105	-8.845	33.2	123.4	---	---	-0.69	0.717	157.0	250.6	-3.2	0.674
4-2630	4-2970	0.574	353.2	-5.7	-1.08	1.418	72.2	1.03625	-6.489	35.0	127.0	---	---	-0.69	0.664	155.5	250.5	-3.2	0.621
4-2630	4-2990	0.560	351.5	-6.4	-1.06	1.397	71.8	0.98147	-5.113	36.7	130.5	---	---	-0.69	0.616	154.0	250.4	-3.2	0.574
4-2630	4-3010	0.549	349.9	-7.0	-1.04	1.379	71.6	0.93514	-4.040	38.2	133.8	---	---	-0.70	0.574	152.4	250.2	-3.2	0.532
4-2630	4-3030	0.540	348.6	-7.5	-1.02	1.363	71.3	0.898	8.866	39.6	137.0	---	---	-0.70	0.536	150.7	250.0	-3.3	0.495
4-2630	4-3050	0.533	347.5	-8.0	-0.99	1.351	71.1	0.867	6.779	40.7	139.9	---	---	-0.70	0.503	148.9	249.6	-3.3	0.461
4-2630	4-3070	0.526	346.5	-8.3	-0.97	1.340	71.0	0.842	5.660	41.8	142.8	---	---	-0.71	0.472	147.1	249.2	-3.3	0.431
4-2630	4-3090	0.521	345.7	-8.6	-0.95	1.331	70.9	0.820	4.969	42.6	145.4	---	---	-0.71	0.445	145.1	248.7	-3.3	0.404
4-2630	4-3110	0.516	345.1	-8.8	-0.93	1.323	70.8	0.802	4.504	43.3	147.9	---	---	-0.72	0.421	143.1	248.1	-3.3	0.380
4-2630	4-3130	0.511	344.5	-9.0	-0.90	1.316	70.8	0.787	4.173	43.9	150.3	---	---	-0.72	0.399	140.9	247.5	-3.3	0.358
4-2630	4-3150	0.507	344.2	-9.1	-0.88	1.310	70.8	0.774	3.929	44.3	152.5	---	---	-0.73	0.379	138.7	246.7	-3.4	0.338
4-2630	4-3170	0.502	343.9	-9.1	-0.86	1.306	70.8	0.763	3.742	44.6	154.6	---	---	-0.74	0.361	136.5	245.9	-3.4	0.320
4-2630	4-3190	0.498	343.7	-9.2	-0.83	1.301	70.9	0.753	3.597	44.8	156.5	---	---	-0.75	0.345	134.1	244.9	-3.4	0.304
4-2630	4-3210	0.494	343.6	-9.2	-0.81	1.298	71.0	0.745	3.482	44.9	158.4	---	---	-0.75	0.331	131.8	243.9	-3.4	0.289
4-2630	4-3230	0.490	343.6	-9.1	-0.78	1.295	71.1	0.738	3.390	44.9	160.1	---	---	-0.77	0.318	129.3	242.9	-3.4	0.276
4-2630	4-3250	0.486	343.6	-9.0	-0.75	1.292	71.3	0.732	3.316	44.8	161.8	---	---	-0.78	0.307	126.9	241.7	-3.4	0.265
4-2630	4-3270	0.482	343.7	-8.9	-0.73	1.290	71.4	0.726	3.256	44.6	163.3	---	---	-0.79	0.297	124.4	240.6	-3.4	0.254
4-2630	4-3290	0.478	343.9	-8.8	-0.70	1.288	71.6	0.721	3.208	44.3	164.8	---	---	-0.80	0.288	121.9	239.3	-3.4	0.245
4-2630	4-3310	0.474	344.2	-8.6	-0.67	1.287	71.8	0.717	3.168	44.0	166.2	---	---	-0.82	0.281	119.4	238.1	-3.4	0.237
4-2630	4-3330	0.469	344.5	-8.4	-0.64	1.286	72.0	0.714	3.136	43.6	167.6	---	---	-0.84	0.274	116.9	236.8	-3.5	0.230
4-2630	4-3350	0.465	344.8	-8.2	-0.61	1.285	72.3	0.710	3.110	43.1	168.8	---	---	-0.85	0.268	114.4	235.6	-3.5	0.224
4-2630	4-3370	0.461	345.2	-8.0	-0.58	1.284	72.5	0.707	3.089	42.6	170.0	---	---	-0.87	0.263	112.0	234.3	-3.5	0.218
4-2630	4-3390	0.456	345.7	-7.7	-0.54	1.283	72.8	0.705	3.073	42.0	171.2	---	---	-0.89	0.259	109.6	233.1	-3.5	0.214
4-2630	4-3410	0.452	346.2	-7.4	-0.51	1.283	73.1	0.703	3.061	41.4	172.3	---	---	-0.92	0.255	107.2	231.9	-3.5	0.210
4-2630	4-3430	0.447	346.7	-7.1	-0.47	1.282	73.4	0.701	3.052	40.7	173.4	---	---	-0.94	0.252	104.9	230.8	-3.5	0.207
4-2630	4-3450	0.442	347.3	-6.7	-0.43	1.282	73.7	0.699	3.046	40.0	174.4	---	---	-0.97	0.250	102.7	229.7	-3.5	0.204
4-2630	4-3470	0.438	347.9	-6.4	-0.39	1.282	74.0	0.697	3.042	39.3	175.4	---	---	-1.00	0.248	100.5	228.7	-3.5	0.202
4-2630	4-3490	0.433	348.5	-6.0	-0.34	1.282	74.3	0.696	3.040	38.5	176.3	---	---	-1.03	0.247	98.4	227.8	-3.5	0.201
4-2630	4-3510	0.428	349.2	-5.6	-0.30	1.282	74.7	0.695	3.040	37.7	177.2	---	---	-1.07	0.246	96.3	226.9	-3.5	0.200
4-2630	4-3530	0.423	349.9	-5.1	-0.25	1.282	75.0	0.694	3.042	36.9	178.1	---	---	-1.10	0.245	94.4	226.2	-3.6	0.199
4-2630	4-3550	0.418	350.6	-4.6	-0.19	1.282	75.4	0.693	3.045	36.0	178.9	---	---	-1.15	0.244	92.5	225.5	-3.6	0.198
4-2630	4-3570	0.414	351.4	-4.1	-0.13	1.282	75.7	0.692	3.050	35.1	179.7	---	---	-1.19	0.244	90.7	224.9	-3.6	0.198
4-2630	4-3590	0.409	352.2	-3.6	-0.07	1.282	76.1	0.691	3.055	34.2	180.5	---	5.168	-1.25	0.244	88.9	224.4	-3.7	0.198
4-2630	4-3610	0.404	353.0	-3.0	-0.00	1.283	76.5	0.691	3.062	33.3	181.2	---	5.177	-1.30	0.245	87.2	224.0	-3.7	0.199
4-2630	4-3630	0.399	353.9	-2.4	0.07	1.283	76.9	0.690	3.069	32.3	182.0	---	5.189	-1.37	0.245	85.6	223.6	-3.8	0.199
4-2630	4-3650	0.394	354.7	-1.7	0.16	1.283	77.3	0.690	3.078	31.4	182.7	---	5.202	-1.44	0.246	84.1	223.4	-3.9	0.200
4-2630	4-3670	0.390	355.6	-1.0	0.25	1.284	77.7	0.690	3.087	30.4	183.4	---	5.216	-1.52	0.247	82.6	223.2	-4.0	0.201
4-2630	4-3690	0.385	356.5	-0.2	0.35	1.284	78.1	0.690	3.097	29.4	184.0	---	5.232	-1.62	0.248	81.2	223.2	-4.1	0.202
4-2630	4-3710	0.381	357.5	0.6	0.47	1.284	78.5	0.690	3.107	28.4	184.7	---	5.249	-1.72	0.249	79.8	223.2	-4.2	0.203
4-2630	4-3730	0.376	358.4	1.5	0.60	1.285	78.9	0.689	3.118	27.4	185.3	---	5.268	-1.84	0.250	78.6	223.2	-4.3	0.204
4-2630	4-3750	0.372	359.4	2.5	0.75	1.285	79.3	0.690	3.129	26.3	185.9	---	5.287	-1.98	0.251	77.3	223.4	-4.5	0.206
4-2630	4-3770	0.367	0.3	3.6	0.93	1.286	79.7	0.690	3.141	25.3	186.5	---	5.307	-2.15	0.253	76.1	223.6	-4.7	0.207
4-2630	4-3790	0.363	1.2	4.9	1.14	1.286	80.2	0.690	3.153	24.2	187.0	---	5.328	-2.35	0.254	75.0	223.8	-4.9	0.209
4-2630	4-3810	0.359	2.1	6.3	1.39	1.287	80.6	0.690	3.166	23.1	187.6	---	5.350	-2.59	0.255	73.9	224.2	-5.2	0.210

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2630	4-3830	0.356	2.9	7.9	1.70	1.287	81.0	0.690	3.178	22.0	188.1	---	5.373	-2.89	0.257	72.8	224.5	-5.5	0.212
4-2630	4-3850	0.353	3.7	9.8	2.08	1.288	81.5	0.691	3.191	20.9	188.7	---	5.396	-3.26	0.258	71.8	225.0	-5.9	0.214
4-2630	4-3870	0.350	4.3	12.1	2.58	1.288	81.9	0.691	3.205	19.8	189.2	---	5.420	-3.75	0.260	70.8	225.5	-6.5	0.216
4-2630	4-3890	0.348	4.6	15.1	3.25	1.289	82.4	0.692	3.218	18.7	189.7	---	5.444	-4.42	0.262	69.9	226.0	-7.2	0.218
4-2630	4-3910	0.349	4.4	19.0	4.21	1.289	82.8	0.692	3.232	17.6	190.2	---	5.469	-5.37	0.263	69.0	226.6	-8.2	0.220
4-2630	4-3930	0.354	3.3	24.5	5.70	1.290	83.3	0.693	3.246	16.5	190.7	---	5.495	-6.84	0.265	68.1	227.3	-9.8	0.223
4-2630	4-3950	0.370	359.8	32.9	8.28	1.290	83.7	0.693	3.260	15.4	191.1	---	5.521	-9.42	0.266	67.3	228.1	-12.5	0.228
4-2630	4-3970	0.428	348.7	46.8	13.91	1.291	84.2	0.694	3.274	14.2	191.6	---	5.547	-15.03	0.268	66.5	229.3	-17.8	0.239
4-2630	4-3990	0.736	294.1	60.9	34.05	1.291	84.6	0.695	3.289	13.2	192.0	---	5.574	-35.17	0.270	65.7	234.1	-30.8	0.298
4-2630	4-4010	1.001	99.7	-77.2	-49.75	1.292	85.3	0.695	3.303	11.5	192.4	---	5.600	48.64	0.271	65.0	240.6	29.1	0.350
4-2630	4-4030	0.485	43.8	-45.3	-18.58	1.292	85.7	0.696	3.318	10.6	192.9	---	5.628	17.49	0.273	64.2	233.2	14.8	0.249
4-2630	4-4050	0.390	37.6	-29.0	-11.46	1.293	86.1	0.697	3.332	9.4	193.3	---	5.656	10.38	0.274	63.5	232.7	8.3	0.237
4-2630	4-4070	0.358	35.8	-19.8	-8.44	1.293	86.6	0.698	3.347	8.3	193.7	---	5.684	7.37	0.276	62.8	233.2	5.2	0.235
4-2630	4-4090	0.342	35.5	-13.9	-6.78	1.294	87.1	0.699	3.362	7.1	194.1	---	5.713	5.71	0.278	62.2	233.9	3.5	0.236
4-2630	4-4110	0.334	36.0	-9.8	-5.72	1.294	87.6	0.700	3.377	5.9	194.5	---	5.741	4.67	0.279	61.5	234.7	2.3	0.237
4-2630	4-4130	0.328	37.0	-6.6	-4.99	1.295	88.1	0.701	3.392	4.7	194.8	---	5.770	3.95	0.281	60.9	235.6	1.5	0.238
4-2630	4-4150	0.324	38.2	-4.1	-4.46	1.295	88.5	0.702	3.407	3.5	195.2	---	5.800	3.42	0.282	60.2	236.5	1.0	0.239
4-2630	4-4170	0.322	39.6	-2.0	-4.05	1.296	89.0	0.704	3.422	2.3	195.6	---	5.829	3.03	0.284	59.6	237.4	0.5	0.241
4-2630	4-4190	0.320	41.1	-0.1	-3.73	1.296	89.5	0.705	3.437	1.1	195.9	---	5.859	2.71	0.286	59.1	238.4	0.1	0.242
4-2630	4-4210	0.319	42.7	1.5	-3.47	1.297	90.0	0.706	3.452	359.9	556.2	1.014	5.889	2.46	0.287	58.5	239.4	-0.2	0.244
4-2630	4-4230	0.318	44.4	2.9	-3.25	1.297	90.5	0.707	3.467	358.7	556.6	1.014	5.919	2.25	0.289	57.9	240.4	-0.4	0.246
4-2640	4-2980	0.654	350.6	-6.3	-1.08	1.407	66.1	1.00567	3.411	47.7	131.0	---	---	-0.87	0.638	155.8	249.6	-3.3	0.604
4-2640	4-3000	0.641	349.3	-6.9	-1.05	1.387	65.9	0.95819	3.827	49.3	134.4	---	---	-0.87	0.592	154.3	249.4	-3.3	0.559
4-2640	4-3020	0.630	348.2	-7.3	-1.02	1.370	65.8	0.91910	3.302	50.7	137.6	---	---	-0.87	0.551	152.6	249.1	-3.3	0.518
4-2640	4-3040	0.621	347.2	-7.6	-1.00	1.356	65.7	0.887	7.365	52.0	140.7	---	---	-0.87	0.514	150.9	248.7	-3.3	0.482
4-2640	4-3060	0.614	346.4	-7.9	-0.97	1.344	65.6	0.861	5.950	53.0	143.5	---	---	-0.87	0.482	149.0	248.3	-3.3	0.450
4-2640	4-3080	0.607	345.7	-8.1	-0.94	1.334	65.6	0.839	5.125	53.9	146.2	---	---	-0.87	0.452	147.1	247.7	-3.3	0.421
4-2640	4-3100	0.600	345.2	-8.3	-0.91	1.325	65.6	0.821	4.590	54.6	148.7	---	---	-0.87	0.426	145.0	247.1	-3.4	0.396
4-2640	4-3120	0.595	344.8	-8.4	-0.89	1.318	65.6	0.806	4.218	55.2	151.0	---	---	-0.87	0.402	142.9	246.4	-3.4	0.372
4-2640	4-3140	0.589	344.5	-8.5	-0.86	1.312	65.7	0.793	3.948	55.6	153.2	---	---	-0.87	0.381	140.7	245.6	-3.4	0.351
4-2640	4-3160	0.584	344.2	-8.6	-0.83	1.307	65.8	0.782	3.746	55.8	155.3	---	---	-0.88	0.362	138.4	244.8	-3.4	0.332
4-2640	4-3180	0.579	344.1	-8.6	-0.80	1.302	65.9	0.772	3.590	56.0	157.2	---	---	-0.88	0.345	136.1	243.8	-3.4	0.315
4-2640	4-3200	0.574	344.1	-8.5	-0.78	1.299	66.1	0.764	3.467	56.0	159.0	---	---	-0.89	0.330	133.6	242.8	-3.4	0.300
4-2640	4-3220	0.569	344.1	-8.5	-0.75	1.295	66.2	0.757	3.371	56.0	160.7	---	---	-0.90	0.316	131.1	241.8	-3.4	0.287
4-2640	4-3240	0.564	344.2	-8.4	-0.72	1.293	66.4	0.750	3.293	55.8	162.3	---	---	-0.90	0.304	128.6	240.6	-3.5	0.275
4-2640	4-3260	0.559	344.3	-8.3	-0.69	1.290	66.6	0.745	3.230	55.6	163.9	---	---	-0.91	0.293	126.0	239.5	-3.5	0.264
4-2640	4-3280	0.554	344.5	-8.1	-0.66	1.289	66.8	0.740	3.180	55.3	165.3	---	---	-0.92	0.284	123.4	238.3	-3.5	0.254
4-2640	4-3300	0.549	344.7	-8.0	-0.63	1.287	67.1	0.735	3.139	54.9	166.7	---	---	-0.93	0.276	120.8	237.0	-3.5	0.246
4-2640	4-3320	0.544	345.0	-7.8	-0.60	1.286	67.4	0.731	3.106	54.4	167.9	---	---	-0.95	0.269	118.2	235.8	-3.5	0.238
4-2640	4-3340	0.538	345.3	-7.6	-0.57	1.285	67.6	0.728	3.080	53.9	169.2	---	---	-0.96	0.263	115.6	234.6	-3.5	0.232
4-2640	4-3360	0.533	345.7	-7.4	-0.53	1.284	67.9	0.725	3.059	53.3	170.3	---	---	-0.97	0.257	113.1	233.4	-3.5	0.226
4-2640	4-3380	0.528	346.1	-7.2	-0.50	1.283	68.2	0.722	3.043	52.7	171.5	---	---	-0.99	0.253	110.6	232.2	-3.5	0.222
4-2640	4-3400	0.523	346.5	-6.9	-0.47	1.282	68.5	0.720	3.030	52.0	172.5	---	---	-1.01	0.249	108.1	231.0	-3.5	0.218
4-2640	4-3420	0.517	347.0	-6.6	-0.43	1.282	68.8	0.717	3.021	51.3	173.6	---	---	-1.02	0.246	105.7	229.9	-3.5	0.214
4-2640	4-3440	0.512	347.5	-6.4	-0.39	1.282	69.2	0.715	3.015	50.6	174.5	---	---	-1.04	0.244	103.3	228.9	-3.5	0.211
4-2640	4-3460	0.506	348.0	-6.1	-0.35	1.282	69.5	0.713	3.012	49.8	175.5	---	---	-1.07	0.242	101.0	227.9	-3.5	0.209
4-2640	4-3480	0.501	348.6	-5.7	-0.31	1.282	69.9	0.712	3.010	49.0	176.4	---	---	-1.09	0.241	98.8	227.1	-3.5	0.207
4-2640	4-3500	0.495	349.2	-5.4	-0.27	1.282	70.2	0.710	3.011	48.2	177.2	---	---	-1.12	0.240	96.7	226.2	-3.5	0.206
4-2640	4-3520	0.489	349.8	-5.0	-0.23	1.282	70.6	0.709	3.013	47.3	178.1	---	---	-1.14	0.239	94.6	225.5	-3.5	0.205
4-2640	4-3540	0.484	350.4	-4.6	-0.18	1.282	71.0	0.708	3.017	46.4	178.9	---	---	-1.18	0.239	92.7	224.9	-3.5	0.204
4-2640	4-3560	0.478	351.1	-4.2	-0.13	1.282	71.4	0.706	3.022	45.5	179.7	---	---	-1.21	0.239	90.8	224.3	-3.6	0.204
4-2640	4-3580	0.472	351.7	-3.8	-0.08	1.282	71.8	0.705	3.028	44.6	180.4	---	5.164	-1.24	0.239	89.0	223.9	-3.6	0.204
4-2640	4-3600	0.467	352.4	-3.3	-0.03	1.283	72.2	0.704	3.035	43.6	181.2	---	5.173	-1.28	0.239	87.2	223.5	-3.6	0.204
4-2640	4-3620	0.461	353.2	-2.9	0.03	1.283	72.6	0.704	3.043	42.7	181.9	---	5.185	-1.33	0.240	85.6	223.2	-3.7	0.205
4-2640	4-3640	0.455	353.9	-2.4	0.09	1.283	73.0	0.703	3.052	41.7	182.6	---	5.198	-1.37	0.241	84.0	223.0	-3.7	0.205
4-2640	4-3660	0.449	354.7	-1.8	0.16	1.284	73.4	0.702	3.062	40.7	183.2	---	5.212	-1.43	0.242	82.5	222.8	-3.7	0.206
4-2640	4-3680	0.444	355.5	-1.3	0.23	1.284	73.8	0.702	3.072	39.7	183.9	---	5.228	-1.48	0.243	81.0	222.8	-3.8	0.207
4-2640	4-3700	0.438	356.3	-0.7	0.30	1.285	74.2	0.701	3.083	38.6	184.5	---	5.245	-1.55	0.244	79.7	222.8	-3.9	0.208
4-2640	4-3720	0.432	357.1	-0.0	0.39	1.285	74.6	0.701	3.095	37.6	185.1	---	5.263	-1.61	0.246	78.4	222.9	-3.9	0.209
4-2640	4-3740	0.427	358.0	0.6	0.48	1.286	75.1	0.700	3.107	36.5	185.7	---	5.282	-1.69	0.247	77.1	223.0	-4.0	0.210
4-2640	4-3760	0.421	358.8	1.4	0.58	1.286	75.5	0.700	3.119	35.5	186.3	---	5.302	-1.78	0.249	75.9	223.2	-4.1	0.211
4-2640	4-3780	0.416	359.7	2.1	0.69	1.287	75.9	0.700	3.132	34.4	186.8	---	5.323	-1.87	0.250	74.7	223.5	-4.2	0.212
4-2640	4-3800	0.410	0.6	2.9	0.81	1.287	76.4	0.700	3.145	33.3	187.4	---	5.345	-1.98	0.252	73.7	223.8	-4.4	0.214
4-2640	4-3820	0.405	1.5	3.8	0.95	1.288	76.8	0.700	3.158	32.2	187.9	---	5.367	-2.11	0.253	72.6	224.2	-4.5	0.215
4-2640	4-3840	0.400	2.4	4.8	1.10	1.288	77.3	0.700	3.172	31.1	188.4	---	5.390	-2.25	0.255	71.6	224.7	-4.7	0.217
4-2640	4-3860	0.395	3.3	5.9	1.28	1.289	77.7	0.700	3.185	30.0	188.9	---	5.414	-2.42	0.257	70.6	225.2	-4.9	0.218
4-2640	4-3880	0.390	4.2	7.1	1.48	1.289	78.2	0.700	3.199	28.8	189.4	---	5.438	-2.61	0.258	69.7	225.7	-5.1	0.220
4-2640	4-3900	0.385	5.0	8.4	1.72	1.290	78.6	0.700	3.214	27.7	189.9	---	5.462	-2.84	0.260	68.8	226.3	-5.3	0.221
4-2640	4-3920	0.380	5.9	9.8	2.01	1.290	79.1	0.700	3.228	26.6	190.4	---	5.487	-3.11	0.262	68.0	226.9	-5.6	0.223
4-2640	4-3940	0.376	6.6	11.5	2.36	1.291	79.6	0.700	3.243	25.4	190.8	---	5.513	-3.44	0.264	67.1	227.6	-6.0	0.225
4-2640	4-3960	0.373	7.3	13.5	2.78	1.291	80.0	0.700	3.257	24.3	191.3	---	5.539	-3.86	0.265	66.3	228.3	-6.4	0.226
4-2640	4-3980	0.370	7.8	15.9	3.33	1.292	80.5	0.701	3.272	23.1	191.7	---	5.565	-4.39	0.267	65.6	229.0	-7.0	0.228
4-2640	4-4000	0.368	8.0	18.9	4.04	1.293	81.0	0.701	3.287	22.0	192.2	---	5.592	-5.09	0.269	64.8	229.8	-7.7	0.230
4-2640	4-4020	0.369	7.8	22.7	5.03	1.293	81.4	0.702	3.302	20.8	192.6	---	5.619	-6.07	0.271	64.1	230.6	-8.7	0.232
4-2640	4-4040	0.373	6.7	27.8	6.48	1.294	81.9	0.702	3.317	19.7	193.0	---	5.646	-7.50	0.272	63.4	231.5	-10.2	0.235
4-2640	4-4060	0.388	3.6	35.1	8.80	1.294	82.4	0.703	3.333	18.5	193.4	---	5.674	-9.82	0.274	62.8	232.5	-12.4	0.239
4-2640	4-4080	0.430	355.3	45.9	13.16	1.295	82.9	0.703	3.348	17.3	193.8	---	5.702	-14.16	0.276	62.1	233.8	-16.4	0.248
4-2640	4-4100	0.579	325.9	59.5	23.98	1.295	83.3	0.704	3.363	16.2	194.2	---	5.730	-24.97	0.277	61.5	236.6	-24.6	0.274
4-2640	4-4120	1.345	257.0	42.1	70.53	1.296	83.6	0.705	3.379	15.5	194.6	---	5.759	-71.51	0.279	60.9	250.7	-34.2	0.445
4-2640	4-4140	0.757	60.9	-66.2	-35.11	1.296	84.5	0.705	3.394	13.4	194.9	---	5.786	34.14	0.281	60.3	242.4	24.0	0.305

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2660	4-3180	0.760	348.2	-6.3	-0.80	1.300	55.2	0.812	3.410	79.4	161.3	---	---	-1.15	0.323	138.5	239.8	-3.4	0.329
4-2660	4-3200	0.752	348.3	-6.2	-0.76	1.296	55.5	0.805	3.303	79.2	162.9	---	---	-1.15	0.307	135.8	238.7	-3.4	0.314
4-2660	4-3220	0.745	348.5	-6.1	-0.73	1.293	55.8	0.799	3.219	78.8	164.3	---	---	-1.14	0.293	133.1	237.6	-3.4	0.300
4-2660	4-3240	0.738	348.7	-6.0	-0.69	1.291	56.2	0.793	3.152	78.4	165.7	---	---	-1.14	0.281	130.3	236.5	-3.4	0.289
4-2660	4-3260	0.730	348.9	-5.8	-0.65	1.289	56.5	0.788	3.099	78.0	166.9	---	---	-1.14	0.270	127.5	235.3	-3.4	0.278
4-2660	4-3280	0.723	349.1	-5.7	-0.62	1.287	56.9	0.783	3.056	77.4	168.2	---	---	-1.14	0.261	124.6	234.1	-3.4	0.269
4-2660	4-3300	0.716	349.4	-5.5	-0.58	1.285	57.2	0.779	3.022	76.8	169.3	---	---	-1.14	0.253	121.6	233.0	-3.4	0.261
4-2660	4-3320	0.709	349.7	-5.3	-0.55	1.284	57.6	0.775	2.996	76.2	170.4	---	---	-1.14	0.246	118.7	231.8	-3.4	0.254
4-2660	4-3340	0.702	350.1	-5.1	-0.51	1.283	58.0	0.772	2.975	75.5	171.5	---	---	-1.15	0.240	115.8	230.7	-3.4	0.248
4-2660	4-3360	0.695	350.5	-4.9	-0.48	1.283	58.4	0.768	2.959	74.7	172.5	---	---	-1.15	0.235	112.9	229.6	-3.4	0.243
4-2660	4-3380	0.688	350.8	-4.7	-0.44	1.282	58.7	0.765	2.948	73.9	173.4	---	---	-1.16	0.231	110.1	228.5	-3.4	0.238
4-2660	4-3400	0.680	351.2	-4.5	-0.41	1.282	59.1	0.762	2.939	73.1	174.3	---	---	-1.16	0.228	107.3	227.6	-3.3	0.234
4-2660	4-3420	0.673	351.7	-4.3	-0.37	1.282	59.6	0.760	2.934	72.3	175.2	---	---	-1.17	0.226	104.6	226.6	-3.3	0.231
4-2660	4-3440	0.666	352.1	-4.0	-0.34	1.281	60.0	0.757	2.932	71.4	176.0	---	---	-1.18	0.224	102.0	225.8	-3.3	0.228
4-2660	4-3460	0.659	352.6	-3.8	-0.30	1.281	60.4	0.755	2.932	70.5	176.9	---	---	-1.19	0.222	99.5	225.0	-3.3	0.226
4-2660	4-3480	0.652	353.1	-3.5	-0.26	1.282	60.8	0.752	2.934	69.6	177.6	---	---	-1.20	0.222	97.1	224.3	-3.3	0.224
4-2660	4-3500	0.645	353.6	-3.2	-0.22	1.282	61.2	0.750	2.937	68.6	178.4	---	---	-1.21	0.221	94.8	223.7	-3.3	0.223
4-2660	4-3520	0.637	354.1	-2.9	-0.19	1.282	61.7	0.748	2.942	67.7	179.1	---	---	-1.23	0.222	92.6	223.1	-3.3	0.222
4-2660	4-3540	0.630	354.6	-2.6	-0.15	1.282	62.1	0.746	2.949	66.7	179.8	---	---	-1.24	0.222	90.5	222.7	-3.3	0.221
4-2660	4-3560	0.623	355.1	-2.3	-0.11	1.283	62.6	0.744	2.956	65.7	180.5	---	5.157	-1.26	0.223	88.5	222.3	-3.3	0.221
4-2660	4-3580	0.616	355.7	-2.0	-0.06	1.283	63.0	0.743	2.965	64.6	181.2	---	5.167	-1.28	0.224	86.6	222.0	-3.3	0.221
4-2660	4-3600	0.608	356.3	-1.7	-0.02	1.283	63.5	0.741	2.974	63.6	181.8	---	5.179	-1.29	0.225	84.8	221.8	-3.4	0.221
4-2660	4-3620	0.601	356.8	-1.3	0.02	1.284	63.9	0.740	2.985	62.6	182.5	---	5.192	-1.32	0.226	83.0	221.7	-3.4	0.221
4-2660	4-3640	0.594	357.4	-1.0	0.07	1.284	64.4	0.738	2.996	61.5	183.1	---	5.207	-1.34	0.228	81.4	221.6	-3.4	0.221
4-2660	4-3660	0.586	358.0	-0.6	0.11	1.285	64.8	0.737	3.007	60.4	183.7	---	5.223	-1.36	0.229	79.9	221.6	-3.4	0.222
4-2660	4-3680	0.579	358.7	-0.2	0.16	1.285	65.3	0.735	3.020	59.3	184.3	---	5.240	-1.39	0.231	78.4	221.7	-3.5	0.222
4-2660	4-3700	0.572	359.3	0.2	0.21	1.286	65.8	0.734	3.032	58.3	184.8	---	5.258	-1.42	0.233	77.1	221.8	-3.5	0.223
4-2660	4-3720	0.564	360.0	0.6	0.26	1.286	66.2	0.733	3.046	57.1	185.4	---	5.278	-1.45	0.235	75.7	222.0	-3.5	0.224
4-2660	4-3740	0.557	0.6	1.0	0.32	1.287	66.7	0.732	3.059	56.0	185.9	---	5.298	-1.49	0.237	74.5	222.3	-3.6	0.225
4-2660	4-3760	0.550	1.3	1.4	0.38	1.288	67.2	0.731	3.073	54.9	186.4	---	5.319	-1.52	0.239	73.3	222.6	-3.6	0.226
4-2660	4-3780	0.543	2.0	1.9	0.44	1.288	67.6	0.730	3.087	53.8	187.0	---	5.341	-1.56	0.241	72.2	223.0	-3.7	0.226
4-2660	4-3800	0.535	2.7	2.4	0.50	1.289	68.1	0.729	3.102	52.7	187.5	---	5.363	-1.61	0.243	71.2	223.4	-3.7	0.227
4-2660	4-3820	0.528	3.4	2.9	0.56	1.289	68.6	0.728	3.117	51.5	187.9	---	5.386	-1.66	0.245	70.2	223.9	-3.8	0.229
4-2660	4-3840	0.521	4.1	3.4	0.63	1.290	69.1	0.727	3.132	50.4	188.4	---	5.409	-1.71	0.247	69.2	224.4	-3.9	0.230
4-2660	4-3860	0.514	4.9	3.9	0.71	1.291	69.5	0.726	3.147	49.2	188.9	---	5.433	-1.76	0.249	68.3	224.9	-3.9	0.231
4-2660	4-3880	0.507	5.6	4.5	0.79	1.291	70.0	0.726	3.163	48.1	189.4	---	5.458	-1.82	0.251	67.4	225.5	-4.0	0.232
4-2660	4-3900	0.500	6.4	5.1	0.87	1.292	70.5	0.725	3.178	46.9	189.8	---	5.483	-1.89	0.253	66.6	226.2	-4.1	0.233
4-2660	4-3920	0.493	7.2	5.7	0.97	1.292	71.0	0.724	3.194	45.7	190.3	---	5.508	-1.97	0.256	65.8	226.8	-4.2	0.234
4-2660	4-3940	0.486	8.0	6.4	1.06	1.293	71.5	0.724	3.210	44.6	190.7	---	5.534	-2.05	0.258	65.0	227.5	-4.3	0.235
4-2660	4-3960	0.479	8.8	7.1	1.17	1.294	72.0	0.723	3.226	43.4	191.1	---	5.560	-2.14	0.260	64.3	228.3	-4.4	0.236
4-2660	4-3980	0.472	9.6	7.8	1.29	1.294	72.4	0.723	3.242	42.2	191.5	---	5.586	-2.24	0.262	63.6	229.0	-4.5	0.238
4-2660	4-4000	0.466	10.4	8.6	1.42	1.295	72.9	0.722	3.258	41.0	192.0	---	5.612	-2.35	0.264	63.0	229.8	-4.7	0.239
4-2660	4-4020	0.459	11.2	9.4	1.56	1.295	73.4	0.722	3.275	39.9	192.4	---	5.639	-2.47	0.266	62.3	230.7	-4.8	0.240
4-2660	4-4040	0.453	12.1	10.3	1.71	1.296	73.9	0.722	3.291	38.7	192.8	---	5.666	-2.61	0.268	61.7	231.5	-5.0	0.241
4-2660	4-4060	0.446	12.9	11.3	1.89	1.296	74.4	0.721	3.307	37.5	193.2	---	5.693	-2.77	0.270	61.1	232.4	-5.1	0.242
4-2660	4-4080	0.440	13.7	12.3	2.09	1.297	74.9	0.721	3.324	36.3	193.5	---	5.721	-2.95	0.272	60.5	233.3	-5.3	0.244
4-2660	4-4100	0.434	14.5	13.5	2.31	1.298	75.4	0.721	3.340	35.1	193.9	---	5.748	-3.16	0.274	60.0	234.2	-5.5	0.245
4-2660	4-4120	0.429	15.3	14.7	2.57	1.298	75.9	0.721	3.356	33.9	194.3	---	5.776	-3.40	0.276	59.4	235.1	-5.8	0.246
4-2660	4-4140	0.423	16.1	16.1	2.87	1.299	76.4	0.721	3.373	32.7	194.6	---	5.804	-3.68	0.278	58.9	236.1	-6.1	0.247
4-2660	4-4160	0.418	16.8	17.7	3.22	1.299	76.9	0.721	3.389	31.5	195.0	---	5.832	-4.02	0.279	58.4	237.1	-6.4	0.249
4-2660	4-4180	0.413	17.4	19.6	3.65	1.300	77.4	0.721	3.406	30.3	195.4	---	5.861	-4.43	0.281	57.9	238.1	-6.8	0.250
4-2660	4-4200	0.410	17.9	21.7	4.17	1.300	77.9	0.721	3.422	29.1	195.7	---	5.889	-4.94	0.283	57.5	239.1	-7.3	0.251
4-2660	4-4220	0.407	18.2	24.2	4.82	1.301	78.4	0.721	3.439	27.9	196.0	---	5.918	-5.57	0.285	57.0	240.2	-7.9	0.253
4-2660	4-4240	0.406	18.2	27.3	5.67	1.301	78.9	0.721	3.455	26.7	196.4	---	5.947	-6.40	0.287	56.6	241.3	-8.7	0.255
4-2660	4-4260	0.407	17.7	31.2	6.80	1.302	79.4	0.721	3.471	25.5	196.7	---	5.975	-7.53	0.289	56.1	242.4	-9.7	0.257
4-2670	4-2990	0.985	352.7	-4.6	-1.29	1.398	46.1	0.98229.596		88.7	143.9	---	---	-1.50	0.606	160.4	245.0	-3.3	0.614
4-2670	4-3010	0.965	352.2	-4.8	-1.23	1.378	46.5	0.95311.100		89.8	146.8	---	---	-1.47	0.557	158.8	244.5	-3.3	0.568
4-2670	4-3030	0.948	351.8	-4.9	-1.18	1.361	46.8	0.930	7.355	90.6	149.4	---	---	-1.44	0.514	157.1	244.0	-3.3	0.528
4-2670	4-3050	0.933	351.5	-5.0	-1.13	1.347	47.1	0.910	5.762	91.3	151.9	---	---	-1.41	0.476	155.3	243.3	-3.3	0.492
4-2670	4-3070	0.919	351.3	-5.0	-1.08	1.336	47.5	0.894	4.889	91.7	154.1	---	---	-1.39	0.442	153.4	242.6	-3.3	0.460
4-2670	4-3090	0.906	351.2	-5.0	-1.03	1.326	47.8	0.881	4.344	91.9	156.1	---	---	-1.37	0.411	151.3	241.8	-3.3	0.432
4-2670	4-3110	0.895	351.1	-5.0	-0.98	1.318	48.2	0.869	3.976	92.0	158.0	---	---	-1.35	0.384	149.1	241.0	-3.3	0.407
4-2670	4-3130	0.884	351.1	-5.0	-0.94	1.311	48.5	0.859	3.715	92.0	159.7	---	---	-1.33	0.360	146.8	240.0	-3.3	0.385
4-2670	4-3150	0.874	351.2	-4.9	-0.89	1.306	48.9	0.850	3.522	91.8	161.4	---	---	-1.31	0.338	144.3	239.0	-3.3	0.365
4-2670	4-3170	0.864	351.3	-4.8	-0.85	1.301	49.3	0.842	3.375	91.5	162.9	---	---	-1.30	0.319	141.8	238.0	-3.3	0.347
4-2670	4-3190	0.855	351.5	-4.7	-0.81	1.297	49.7	0.835	3.263	91.2	164.3	---	---	-1.29	0.301	139.0	236.9	-3.3	0.331
4-2670	4-3210	0.846	351.7	-4.6	-0.77	1.294	50.1	0.829	3.175	90.7	165.6	---	---	-1.28	0.286	136.2	235.8	-3.3	0.317
4-2670	4-3230	0.837	351.9	-4.4	-0.73	1.291	50.5	0.823	3.105	90.2	166.8	---	---	-1.27	0.273	133.3	234.7	-3.3	0.305
4-2670	4-3250	0.829	352.1	-4.3	-0.69	1.289	50.9	0.818	3.050	89.6	168.0	---	---	-1.26	0.261	130.3	233.6	-3.3	0.294
4-2670	4-3270	0.820	352.4	-4.1	-0.65	1.287	51.3	0.813	3.007	89.0	169.1	---	---	-1.25	0.251	127.2	232.4	-3.3	0.284
4-2670	4-3290	0.812	352.7	-4.0	-0.61	1.285	51.7	0.808	2.973	88.3	170.2	---	---	-1.24	0.242	124.1	231.3	-3.3	0.276
4-2670	4-3310	0.804	353.0	-3.8	-0.57	1.284	52.2	0.804	2.946	87.5	171.2	---	---	-1.24	0.234	120.9	230.2	-3.3	0.268
4-2670	4-3330	0.795	353.4	-3.6	-0.53	1.283	52.6	0.800	2.925	86.8	172.2	---	---	-1.24	0.228	117.8	229.1	-3.3	0.262
4-2670	4-3350	0.787	353.8	-3.4	-0.49	1.282	53.0	0.797	2.910	85.9	173.1	---	---	-1.23	0.223	114.6	228.1	-3.3	0.256
4-2670	4-3370	0.779	354.1	-3.2	-0.46	1.282	53.5	0.793	2.898	85.1	174.0	---	---	-1.23	0.219	111.5	227.1	-3.2	0.252
4-2670	4-3390	0.771	354.5	-3.0	-0.42	1.282	53.9	0.790	2.891	84.2	174.8	---	---	-1.23	0.216	108.5	226.2	-3.2	0.247
4-2670	4-3410	0.763	355.0	-2.8	-0.38	1.281	54.4	0.787	2.886	83.3	175.6	---	---	-1.23	0.213	105.6	225.3	-3.2	0.244
4-2670	4-3430	0.755	355.4	-2.5	-0.35	1.281	54.9	0.784	2.885	82.4	176.4	---	---	-1.23	0.211	102.7	224.5	-3.2	0.241
4-2670	4-3450	0.747	355.8	-2.3	-0.31	1.281	55.3	0.781	2.885	81.4	177.2	---	---	-1.24	0.210	99.9	223.8	-3.2	0.239
4-2670	4-3470	0.739	356.3	-2.0	-0.27	1.281	55.8	0.779	2.888	80.4	177.9	---	---	-1.24	0.210	97.3	223.2	-3.2	0.237

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2680	4-3800	0.683	9.0	4.6	0.39	1.290	59.4	0.770	3.045	72.1	187.4	---	5.389	-1.42	0.230	67.3	223.1	-3.3	0.248
4-2680	4-3820	0.675	9.6	4.9	0.44	1.291	59.9	0.768	3.061	70.9	187.8	---	5.413	-1.44	0.233	66.4	223.6	-3.4	0.248
4-2680	4-3840	0.666	10.2	5.3	0.48	1.292	60.4	0.766	3.078	69.7	188.3	---	5.437	-1.47	0.236	65.5	224.2	-3.4	0.249
4-2680	4-3860	0.658	10.8	5.6	0.53	1.293	60.9	0.765	3.095	68.5	188.7	---	5.462	-1.49	0.238	64.6	224.8	-3.4	0.250
4-2680	4-3880	0.650	11.4	6.0	0.58	1.293	61.5	0.763	3.112	67.3	189.1	---	5.487	-1.51	0.241	63.8	225.5	-3.5	0.250
4-2680	4-3900	0.641	12.0	6.4	0.63	1.294	62.0	0.762	3.129	66.1	189.5	---	5.512	-1.54	0.243	63.1	226.2	-3.5	0.251
4-2680	4-3920	0.633	12.7	6.8	0.68	1.295	62.5	0.760	3.146	64.9	190.0	---	5.538	-1.57	0.246	62.4	226.9	-3.6	0.252
4-2680	4-3940	0.625	13.3	7.2	0.74	1.295	63.0	0.759	3.163	63.7	190.4	---	5.564	-1.60	0.249	61.7	227.6	-3.7	0.253
4-2680	4-3960	0.616	14.0	7.6	0.80	1.296	63.5	0.758	3.181	62.5	190.8	---	5.591	-1.64	0.251	61.0	228.4	-3.7	0.253
4-2680	4-3980	0.608	14.6	8.0	0.86	1.297	64.0	0.757	3.198	61.3	191.2	---	5.617	-1.68	0.253	60.4	229.2	-3.8	0.254
4-2680	4-4000	0.600	15.3	8.5	0.92	1.297	64.6	0.755	3.215	60.1	191.5	---	5.644	-1.72	0.256	59.8	230.0	-3.8	0.255
4-2680	4-4020	0.592	16.0	8.9	0.98	1.298	65.1	0.754	3.233	58.9	191.9	---	5.671	-1.76	0.258	59.2	230.9	-3.9	0.256
4-2680	4-4040	0.584	16.7	9.4	1.05	1.299	65.6	0.753	3.250	57.7	192.3	---	5.698	-1.81	0.261	58.7	231.8	-4.0	0.256
4-2680	4-4060	0.576	17.4	9.9	1.12	1.299	66.1	0.752	3.268	56.5	192.7	---	5.726	-1.86	0.263	58.2	232.7	-4.1	0.257
4-2680	4-4080	0.568	18.1	10.4	1.20	1.300	66.6	0.751	3.286	55.3	193.1	---	5.753	-1.92	0.265	57.7	233.6	-4.1	0.258
4-2680	4-4100	0.560	18.9	10.9	1.28	1.300	67.1	0.750	3.303	54.1	193.4	---	5.781	-1.98	0.268	57.2	234.5	-4.2	0.259
4-2680	4-4120	0.552	19.6	11.5	1.37	1.301	67.6	0.749	3.321	52.9	193.8	---	5.809	-2.04	0.270	56.8	235.5	-4.3	0.259
4-2680	4-4140	0.544	20.4	12.1	1.46	1.302	68.2	0.748	3.338	51.6	194.1	---	5.836	-2.11	0.272	56.3	236.5	-4.4	0.260
4-2680	4-4160	0.536	21.1	12.7	1.56	1.302	68.7	0.747	3.356	50.4	194.5	---	5.864	-2.19	0.274	55.9	237.5	-4.5	0.261
4-2680	4-4180	0.529	21.9	13.3	1.66	1.303	69.2	0.747	3.373	49.2	194.8	---	5.892	-2.28	0.276	55.5	238.5	-4.6	0.262
4-2680	4-4200	0.521	22.7	14.0	1.78	1.303	69.7	0.746	3.391	48.0	195.2	---	5.921	-2.37	0.278	55.1	239.5	-4.7	0.263
4-2680	4-4220	0.514	23.5	14.7	1.90	1.304	70.2	0.745	3.408	46.8	195.5	---	5.949	-2.48	0.280	54.7	240.5	-4.8	0.263
4-2680	4-4240	0.506	24.3	15.4	2.04	1.305	70.7	0.745	3.426	45.6	195.8	---	5.977	-2.60	0.282	54.4	241.6	-5.0	0.264
4-2680	4-4260	0.499	25.1	16.2	2.19	1.305	71.2	0.744	3.443	44.3	196.2	---	6.005	-2.73	0.284	54.0	242.6	-5.1	0.265
4-2680	4-4280	0.492	25.9	17.1	2.35	1.306	71.8	0.744	3.461	43.1	196.5	---	6.034	-2.87	0.286	53.7	243.7	-5.2	0.266
4-2690	4-3010	1.224	357.9	-2.0	-1.70	1.381	31.7	0.97610.877		119.1	156.5	---	---	-2.15	0.556	164.8	240.5	-3.2	0.610
4-2690	4-3030	1.199	357.9	-2.0	-1.60	1.363	32.4	0.961	7.021	119.1	158.3	---	---	-2.06	0.508	163.3	239.8	-3.2	0.567
4-2690	4-3050	1.177	357.9	-1.9	-1.50	1.348	33.0	0.949	5.455	119.0	160.0	---	---	-1.99	0.466	161.6	239.1	-3.2	0.528
4-2690	4-3070	1.157	357.9	-1.9	-1.40	1.335	33.7	0.939	4.615	118.7	161.5	---	---	-1.92	0.428	159.7	238.2	-3.2	0.495
4-2690	4-3090	1.139	358.0	-1.8	-1.32	1.325	34.4	0.929	4.099	118.3	162.9	---	---	-1.86	0.394	157.7	237.3	-3.2	0.465
4-2690	4-3110	1.122	358.2	-1.7	-1.24	1.316	35.0	0.921	3.754	117.8	164.2	---	---	-1.80	0.364	155.6	236.4	-3.2	0.439
4-2690	4-3130	1.107	358.4	-1.6	-1.16	1.309	35.6	0.913	3.511	117.3	165.4	---	---	-1.75	0.337	153.2	235.4	-3.2	0.416
4-2690	4-3150	1.093	358.6	-1.4	-1.09	1.304	36.2	0.907	3.333	116.6	166.6	---	---	-1.71	0.313	150.7	234.4	-3.2	0.396
4-2690	4-3170	1.079	358.9	-1.3	-1.02	1.299	36.8	0.900	3.200	115.9	167.6	---	---	-1.66	0.292	147.9	233.4	-3.1	0.378
4-2690	4-3190	1.066	359.2	-1.1	-0.96	1.295	37.5	0.894	3.098	115.1	168.6	---	---	-1.62	0.273	145.0	232.3	-3.1	0.362
4-2690	4-3210	1.054	359.5	-1.0	-0.90	1.292	38.1	0.889	3.019	114.3	169.6	---	---	-1.59	0.256	141.9	231.2	-3.1	0.347
4-2690	4-3230	1.042	359.8	-0.8	-0.84	1.289	38.7	0.884	2.958	113.4	170.5	---	---	-1.56	0.241	138.6	230.2	-3.1	0.335
4-2690	4-3250	1.030	0.2	-0.6	-0.79	1.287	39.3	0.879	2.910	112.5	171.4	---	---	-1.53	0.229	135.2	229.1	-3.1	0.324
4-2690	4-3270	1.019	0.5	-0.4	-0.73	1.285	39.8	0.874	2.873	111.6	172.2	---	---	-1.50	0.218	131.5	228.1	-3.1	0.314
4-2690	4-3290	1.008	0.9	-0.2	-0.68	1.284	40.4	0.870	2.844	110.7	173.0	---	---	-1.47	0.208	127.8	227.1	-3.0	0.306
4-2690	4-3310	0.997	1.3	-0.0	-0.63	1.283	41.0	0.865	2.822	109.7	173.7	---	---	-1.45	0.200	124.0	226.1	-3.0	0.298
4-2690	4-3330	0.987	1.7	0.2	-0.58	1.282	41.6	0.861	2.806	108.7	174.5	---	---	-1.43	0.194	120.2	225.2	-3.0	0.292
4-2690	4-3350	0.976	2.1	0.4	-0.53	1.281	42.2	0.857	2.795	107.6	175.2	---	---	-1.41	0.189	116.3	224.4	-3.0	0.286
4-2690	4-3370	0.966	2.5	0.6	-0.49	1.281	42.8	0.854	2.788	106.6	175.9	---	---	-1.40	0.185	112.5	223.6	-3.0	0.281
4-2690	4-3390	0.956	2.9	0.8	-0.44	1.281	43.3	0.850	2.784	105.5	176.5	---	---	-1.38	0.182	108.7	222.9	-2.9	0.277
4-2690	4-3410	0.946	3.4	1.1	-0.40	1.281	43.9	0.846	2.783	104.4	177.2	---	---	-1.37	0.180	105.1	222.2	-2.9	0.274
4-2690	4-3430	0.936	3.8	1.3	-0.36	1.281	44.5	0.843	2.784	103.3	177.8	---	---	-1.35	0.179	101.6	221.6	-2.9	0.271
4-2690	4-3450	0.926	4.3	1.5	-0.32	1.281	45.1	0.840	2.787	102.2	178.4	---	---	-1.34	0.179	98.2	221.1	-2.9	0.268
4-2690	4-3470	0.916	4.7	1.7	-0.27	1.281	45.6	0.836	2.793	101.1	179.0	---	---	-1.34	0.179	95.1	220.7	-2.9	0.266
4-2690	4-3490	0.907	5.2	2.0	-0.23	1.282	46.2	0.833	2.799	100.0	179.6	---	---	-1.33	0.180	92.1	220.3	-2.9	0.264
4-2690	4-3510	0.897	5.7	2.2	-0.19	1.282	46.8	0.830	2.808	98.8	180.1	---	5.138	-1.32	0.182	89.3	220.1	-2.9	0.263
4-2690	4-3530	0.888	6.1	2.5	-0.15	1.282	47.3	0.827	2.817	97.7	180.7	---	5.147	-1.32	0.184	86.6	219.9	-2.9	0.261
4-2690	4-3550	0.878	6.6	2.7	-0.12	1.283	47.9	0.824	2.828	96.5	181.2	---	5.158	-1.31	0.186	84.2	219.7	-2.9	0.261
4-2690	4-3570	0.869	7.1	3.0	-0.08	1.283	48.5	0.821	2.839	95.4	181.8	---	5.171	-1.31	0.188	81.9	219.6	-2.9	0.260
4-2690	4-3590	0.859	7.6	3.2	-0.04	1.284	49.0	0.819	2.851	94.2	182.3	---	5.186	-1.31	0.191	79.8	219.6	-2.9	0.259
4-2690	4-3610	0.850	8.1	3.5	-0.00	1.285	49.6	0.816	2.865	93.0	182.8	---	5.202	-1.31	0.193	77.8	219.7	-2.9	0.259
4-2690	4-3630	0.841	8.6	3.8	0.04	1.285	50.1	0.813	2.878	91.9	183.3	---	5.219	-1.31	0.196	76.0	219.8	-2.9	0.259
4-2690	4-3650	0.831	9.1	4.0	0.08	1.286	50.7	0.811	2.892	90.7	183.8	---	5.238	-1.31	0.199	74.3	220.0	-2.9	0.258
4-2690	4-3670	0.822	9.6	4.3	0.11	1.287	51.2	0.808	2.907	89.5	184.3	---	5.257	-1.31	0.202	72.7	220.2	-3.0	0.258
4-2690	4-3690	0.813	10.2	4.6	0.15	1.287	51.8	0.806	2.923	88.3	184.7	---	5.278	-1.31	0.205	71.3	220.5	-3.0	0.259
4-2690	4-3710	0.804	10.7	4.9	0.19	1.288	52.4	0.804	2.938	87.1	185.2	---	5.299	-1.32	0.208	69.9	220.9	-3.0	0.259
4-2690	4-3730	0.795	11.2	5.1	0.23	1.289	52.9	0.801	2.954	85.9	185.7	---	5.321	-1.32	0.212	68.7	221.3	-3.0	0.259
4-2690	4-3750	0.785	11.8	5.4	0.27	1.289	53.5	0.799	2.970	84.7	186.1	---	5.344	-1.33	0.215	67.5	221.7	-3.1	0.259
4-2690	4-3770	0.776	12.3	5.7	0.31	1.290	54.0	0.797	2.987	83.5	186.6	---	5.367	-1.34	0.218	66.4	222.2	-3.1	0.260
4-2690	4-3790	0.767	12.9	6.0	0.35	1.291	54.5	0.795	3.004	82.3	187.0	---	5.391	-1.35	0.221	65.4	222.7	-3.1	0.260
4-2690	4-3810	0.758	13.4	6.3	0.39	1.292	55.1	0.793	3.021	81.1	187.4	---	5.415	-1.36	0.224	64.4	223.3	-3.2	0.260
4-2690	4-3830	0.749	14.0	6.6	0.43	1.292	55.6	0.791	3.038	79.9	187.8	---	5.440	-1.37	0.227	63.5	223.9	-3.2	0.261
4-2690	4-3850	0.740	14.5	7.0	0.47	1.293	56.2	0.789	3.056	78.7	188.3	---	5.465	-1.39	0.230	62.7	224.5	-3.2	0.261
4-2690	4-3870	0.731	15.1	7.3	0.51	1.294	56.7	0.787	3.073	77.5	188.7	---	5.491	-1.40	0.233	61.9	225.2	-3.3	0.262
4-2690	4-3890	0.722	15.7	7.6	0.55	1.295	57.3	0.785	3.091	76.3	189.1	---	5.517	-1.42	0.236	61.1	225.9	-3.3	0.262
4-2690	4-3910	0.714	16.3	7.9	0.60	1.295	57.8	0.783	3.109	75.1	189.5	---	5.543	-1.43	0.239	60.4	226.6	-3.4	0.263
4-2690	4-3930	0.705	16.9	8.3	0.64	1.296	58.3	0.781	3.126	73.9	189.9	---	5.569	-1.45	0.241	59.8	227.4	-3.4	0.263
4-2690	4-3950	0.696	17.5	8.6	0.69	1.297	58.9	0.780	3.144	72.6	190.3	---	5.596	-1.47	0.244	59.2	228.2	-3.5	0.264
4-2690	4-3970	0.687	18.1	9.0	0.74	1.297	59.4	0.778	3.162	71.4	190.7	---	5.623	-1.50	0.247	58.6	229.0	-3.5	0.264
4-2690	4-3990	0.678	18.7	9.3	0.78	1.298	59.9	0.776	3.180	70.2	191.0	---	5.650	-1.52	0.250	58.0	229.8	-3.6	0.265
4-2690	4-4010	0.670	19.4	9.7	0.83	1.299	60.5	0.775	3.199	69.0	191.4	---	5.677	-1.55	0.252	57.5	230.7	-3.6	0.265
4-2690	4-4030	0.661	20.0	10.1	0.89	1.299	61.0	0.773	3.217	67.8	191.8	---	5.704	-1.57	0.255	57.0	231.6	-3.7	0.266
4-2690	4-4050	0.652	20.6	10.5	0.94	1.300	61.5	0.772	3.235	66.6	192.1	---	5.732	-1.61	0.257	56.5	232.5	-3.7	0.267
4-2690	4-4070	0.644	21.3	10.9	0.99	1.301	62.1	0.770	3.253	65.3	192.5	---	5.759	-1.64	0.260	56.0	233.4	-3.8	0.267
4-2690	4-4090	0.635	22.0	11.3	1.05	1.301	62.6	0.769	3.271	64.1	192.9	---	5.787	-1.67	0.262	55.6	234.3	-3.8	0.268

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2900	4-3300	0.884	29.8	13.6	1.08	1.413	127.5	1.00788	8.982	285.4	498.0	0.636	---	-2.08	0.637	159.5	275.7	-3.8	0.621
4-2900	4-3320	0.853	29.5	13.4	0.97	1.394	126.5	0.97324	6.386	285.9	500.3	0.647	---	-1.99	0.594	158.0	275.8	-3.8	0.579
4-2900	4-3340	0.827	29.3	13.2	0.87	1.378	125.6	0.94411	6.755	286.4	502.5	0.656	---	-1.90	0.556	156.4	275.8	-3.8	0.540
4-2900	4-3360	0.804	29.1	13.1	0.78	1.365	124.8	0.919	8.171	286.8	504.6	0.665	---	-1.83	0.520	154.7	275.7	-3.9	0.505
4-2900	4-3380	0.784	29.0	12.9	0.69	1.353	124.1	0.896	6.489	287.2	506.8	0.672	---	-1.76	0.488	153.0	275.5	-3.9	0.473
4-2900	4-3400	0.767	28.8	12.8	0.61	1.343	123.5	0.877	5.519	287.5	508.8	0.679	---	-1.70	0.459	151.2	275.3	-3.9	0.444
4-2900	4-3420	0.752	28.7	12.6	0.53	1.334	123.0	0.860	4.893	287.8	510.8	0.684	---	-1.64	0.433	149.3	274.9	-3.9	0.418
4-2900	4-3440	0.739	28.6	12.5	0.46	1.327	122.5	0.846	4.459	288.0	512.7	0.689	---	-1.59	0.408	147.3	274.4	-3.9	0.394
4-2900	4-3460	0.728	28.6	12.4	0.40	1.320	122.2	0.833	4.143	288.1	514.6	0.692	---	-1.55	0.386	145.3	273.8	-4.0	0.373
4-2900	4-3480	0.719	28.6	12.3	0.33	1.315	121.9	0.822	3.904	288.2	516.4	0.695	---	-1.50	0.366	143.1	273.1	-4.0	0.353
4-2900	4-3500	0.712	28.6	12.2	0.28	1.310	121.6	0.813	3.719	288.2	518.1	0.697	---	-1.47	0.347	140.9	272.3	-4.0	0.335
4-2900	4-3520	0.706	28.7	12.1	0.22	1.306	121.4	0.804	3.573	288.2	519.8	0.699	---	-1.43	0.330	138.6	271.3	-4.0	0.320
4-2900	4-3540	0.701	28.7	12.1	0.17	1.302	121.3	0.798	3.456	288.1	521.4	0.699	---	-1.40	0.315	136.2	270.3	-4.1	0.305
4-2900	4-3560	0.698	28.9	12.0	0.12	1.299	121.2	0.792	3.362	287.9	522.9	0.700	---	-1.37	0.301	133.8	269.2	-4.1	0.292
4-2900	4-3580	0.695	29.0	12.0	0.07	1.296	121.2	0.787	3.284	287.7	524.4	0.699	---	-1.34	0.288	131.2	268.0	-4.1	0.281
4-2900	4-3600	0.694	29.2	12.0	0.02	1.294	121.2	0.783	3.220	287.5	525.8	0.698	---	-1.32	0.276	128.6	266.7	-4.1	0.271
4-2900	4-3620	0.693	29.4	12.0	-0.02	1.292	121.2	0.780	3.167	287.2	527.2	0.696	---	-1.29	0.265	125.9	265.3	-4.1	0.262
4-2900	4-3640	0.694	29.6	12.0	-0.06	1.290	121.3	0.778	3.123	286.8	528.5	0.694	---	-1.27	0.256	123.1	263.9	-4.1	0.255
4-2900	4-3660	0.695	29.8	12.0	-0.11	1.289	121.4	0.776	3.086	286.4	529.7	0.692	---	-1.25	0.247	120.3	262.5	-4.1	0.248
4-2900	4-3680	0.697	30.1	12.0	-0.15	1.287	121.6	0.775	3.056	285.9	530.9	0.688	---	-1.24	0.240	117.5	261.1	-4.1	0.243
4-2900	4-3700	0.699	30.4	12.1	-0.19	1.286	121.8	0.774	3.031	285.4	532.1	0.685	---	-1.22	0.233	114.6	259.6	-4.1	0.238
4-2900	4-3720	0.702	30.7	12.1	-0.22	1.285	122.0	0.774	3.011	284.8	533.2	0.681	---	-1.21	0.227	111.7	258.2	-4.1	0.235
4-2900	4-3740	0.706	31.1	12.2	-0.26	1.285	122.2	0.774	2.995	284.2	534.2	0.676	---	-1.19	0.221	108.7	256.9	-4.1	0.232
4-2900	4-3760	0.711	31.4	12.3	-0.30	1.284	122.5	0.775	2.981	283.6	535.2	0.671	---	-1.18	0.217	105.8	255.6	-4.0	0.230
4-2900	4-3780	0.715	31.8	12.3	-0.33	1.284	122.8	0.776	2.971	282.9	536.2	0.666	---	-1.17	0.213	102.9	254.4	-4.0	0.229
4-2900	4-3800	0.721	32.2	12.4	-0.37	1.283	123.1	0.777	2.964	282.2	537.1	0.660	---	-1.16	0.210	100.0	253.2	-4.0	0.229
4-2900	4-3820	0.727	32.6	12.5	-0.40	1.283	123.5	0.779	2.958	281.4	538.0	0.654	---	-1.15	0.207	97.1	252.2	-4.0	0.229
4-2900	4-3840	0.733	33.0	12.6	-0.43	1.283	123.8	0.781	2.955	280.6	538.8	0.648	---	-1.15	0.205	94.2	251.2	-3.9	0.229
4-2900	4-3860	0.740	33.5	12.7	-0.47	1.283	124.2	0.783	2.953	279.8	539.6	0.641	---	-1.14	0.203	91.4	250.4	-3.9	0.230
4-2900	4-3880	0.747	33.9	12.9	-0.50	1.283	124.7	0.785	2.953	279.0	540.4	0.633	5.272	-1.13	0.202	88.7	249.7	-3.9	0.232
4-2900	4-3900	0.755	34.4	13.0	-0.53	1.283	125.1	0.788	2.954	278.1	541.1	0.626	5.282	-1.13	0.201	86.0	249.1	-3.8	0.234
4-2900	4-3920	0.763	34.9	13.1	-0.56	1.283	125.6	0.791	2.957	277.1	541.8	0.618	5.295	-1.13	0.200	83.4	248.6	-3.8	0.236
4-2900	4-3940	0.771	35.4	13.2	-0.59	1.283	126.0	0.794	2.960	276.2	542.4	0.610	5.311	-1.12	0.200	80.8	248.2	-3.8	0.239
4-2900	4-3960	0.780	35.9	13.4	-0.63	1.283	126.5	0.797	2.965	275.2	543.0	0.601	5.328	-1.12	0.200	78.3	247.9	-3.8	0.241
4-2900	4-3980	0.789	36.4	13.5	-0.66	1.284	127.0	0.801	2.970	274.2	543.6	0.592	5.348	-1.12	0.201	75.9	247.7	-3.7	0.244
4-2900	4-4000	0.798	36.9	13.7	-0.69	1.284	127.6	0.804	2.977	273.1	544.2	0.583	5.370	-1.12	0.201	73.6	247.6	-3.7	0.248
4-2900	4-4020	0.808	37.5	13.8	-0.72	1.284	128.1	0.808	2.984	272.1	544.7	0.574	5.393	-1.12	0.202	71.3	247.7	-3.7	0.251
4-2900	4-4040	0.818	38.0	14.0	-0.75	1.285	128.7	0.811	2.991	271.0	545.2	0.564	5.419	-1.12	0.203	69.1	247.8	-3.7	0.255
4-2900	4-4060	0.828	38.5	14.1	-0.78	1.285	129.2	0.815	3.000	269.9	545.7	0.554	5.445	-1.13	0.204	67.0	248.0	-3.7	0.259
4-2900	4-4080	0.838	39.1	14.3	-0.81	1.285	129.8	0.819	3.009	268.7	546.1	0.544	5.473	-1.13	0.206	64.9	248.2	-3.7	0.262
4-2900	4-4100	0.849	39.7	14.4	-0.84	1.286	130.4	0.823	3.018	267.6	546.5	0.533	5.503	-1.14	0.207	62.9	248.6	-3.6	0.266
4-2900	4-4120	0.860	40.2	14.6	-0.88	1.286	131.1	0.827	3.028	266.4	546.9	0.523	5.533	-1.14	0.209	61.0	249.0	-3.6	0.271
4-2900	4-4140	0.872	40.8	14.8	-0.91	1.287	131.7	0.832	3.038	265.2	547.2	0.512	5.565	-1.15	0.211	59.1	249.5	-3.6	0.275
4-2900	4-4160	0.883	41.4	14.9	-0.94	1.287	132.4	0.836	3.049	263.9	547.6	0.500	5.598	-1.15	0.212	57.3	250.1	-3.6	0.279
4-2900	4-4180	0.895	42.0	15.1	-0.97	1.288	133.0	0.840	3.060	262.7	547.9	0.489	5.632	-1.16	0.214	55.5	250.7	-3.6	0.283
4-2900	4-4200	0.907	42.6	15.3	-1.01	1.288	133.7	0.845	3.072	261.4	548.2	0.477	5.666	-1.17	0.216	53.8	251.4	-3.6	0.288
4-2900	4-4220	0.919	43.2	15.4	-1.04	1.289	134.4	0.849	3.084	260.1	548.4	0.465	5.702	-1.18	0.218	52.2	252.1	-3.6	0.292
4-2900	4-4240	0.932	43.8	15.6	-1.07	1.289	135.1	0.854	3.096	258.8	548.7	0.453	5.738	-1.19	0.221	50.6	252.9	-3.6	0.297
4-2900	4-4260	0.945	44.4	15.8	-1.11	1.290	135.8	0.858	3.108	257.4	548.9	0.441	5.775	-1.20	0.223	49.0	253.7	-3.6	0.301
4-2900	4-4280	0.958	45.0	16.0	-1.14	1.290	136.6	0.863	3.121	256.1	549.1	0.429	5.813	-1.22	0.225	47.5	254.6	-3.6	0.306
4-2900	4-4300	0.971	45.7	16.1	-1.18	1.291	137.3	0.867	3.134	254.7	549.2	0.416	5.851	-1.23	0.227	46.0	255.5	-3.6	0.310
4-2900	4-4320	0.984	46.3	16.3	-1.22	1.291	138.1	0.872	3.147	253.3	549.4	0.404	5.890	-1.25	0.229	44.6	256.5	-3.6	0.315
4-2900	4-4340	0.998	46.9	16.5	-1.25	1.292	138.9	0.876	3.160	251.9	549.5	0.391	5.929	-1.27	0.232	43.2	257.5	-3.6	0.319
4-2900	4-4360	1.012	47.6	16.6	-1.29	1.292	139.6	0.881	3.174	250.5	549.6	0.378	5.969	-1.28	0.234	41.8	258.6	-3.6	0.324
4-2900	4-4380	1.025	48.2	16.8	-1.33	1.293	140.4	0.885	3.187	249.0	549.7	0.365	6.009	-1.30	0.236	40.5	259.6	-3.6	0.329
4-2900	4-4400	1.040	48.9	17.0	-1.37	1.293	141.3	0.890	3.201	247.6	549.8	0.352	6.050	-1.33	0.238	39.2	260.7	-3.6	0.334
4-2900	4-4420	1.054	49.5	17.1	-1.42	1.294	142.1	0.895	3.215	246.1	549.8	0.339	6.091	-1.35	0.241	37.9	261.9	-3.6	0.338
4-2900	4-4440	1.068	50.2	17.3	-1.46	1.294	142.9	0.899	3.229	244.6	549.8	0.326	6.133	-1.37	0.243	36.6	263.0	-3.6	0.343
4-2900	4-4460	1.083	50.8	17.5	-1.51	1.295	143.8	0.904	3.244	243.1	549.8	0.313	6.175	-1.40	0.245	35.4	264.2	-3.6	0.348
4-2900	4-4480	1.098	51.5	17.7	-1.55	1.295	144.6	0.908	3.258	241.5	549.8	0.299	6.217	-1.43	0.248	34.2	265.5	-3.6	0.353
4-2900	4-4500	1.113	52.2	17.8	-1.60	1.296	145.5	0.913	3.273	240.0	549.8	0.286	6.259	-1.46	0.250	33.0	266.7	-3.6	0.357
4-2910	4-3310	0.831	35.2	16.1	1.40	1.414	124.3	1.01448	8.207	291.9	495.7	0.691	---	-2.46	0.644	158.8	277.5	-4.0	0.622
4-2910	4-3330	0.800	34.9	15.8	1.23	1.396	123.3	0.97831	7.367	292.5	498.0	0.702	---	-2.30	0.602	157.3	277.7	-4.0	0.579
4-2910	4-3350	0.773	34.6	15.5	1.08	1.380	122.4	0.94613	6.106	293.0	500.3	0.711	---	-2.17	0.563	155.7	277.7	-4.0	0.540
4-2910	4-3370	0.750	34.4	15.3	0.94	1.366	121.6	0.918	8.777	293.5	502.6	0.720	---	-2.05	0.528	154.1	277.7	-4.0	0.505
4-2910	4-3390	0.730	34.1	15.1	0.82	1.354	120.9	0.894	6.851	294.0	504.7	0.727	---	-1.94	0.496	152.4	277.6	-4.0	0.473
4-2910	4-3410	0.712	34.0	14.8	0.71	1.344	120.3	0.873	5.769	294.4	506.9	0.734	---	-1.85	0.468	150.6	277.4	-4.0	0.444
4-2910	4-3430	0.697	33.8	14.7	0.61	1.335	119.8	0.855	5.082	294.7	508.9	0.739	---	-1.77	0.441	148.7	277.1	-4.0	0.418
4-2910	4-3450	0.684	33.7	14.5	0.52	1.328	119.3	0.839	4.610	295.0	510.9	0.744	---	-1.69	0.417	146.8	276.7	-4.0	0.394
4-2910	4-3470	0.673	33.6	14.3	0.44	1.321	118.9	0.825	4.268	295.2	512.8	0.748	---	-1.63	0.395	144.8	276.1	-4.0	0.372
4-2910	4-3490	0.664	33.6	14.2	0.36	1.316	118.6	0.813	4.012	295.3	514.7	0.751	---	-1.57	0.375	142.7	275.5	-4.1	0.352
4-2910	4-3510	0.658	33.6	14.0	0.29	1.311	118.3	0.802	3.814	295.4	516.5	0.753	---	-1.51	0.356	140.5	274.8	-4.1	0.334
4-2910	4-3530	0.650	33.6	13.9	0.23	1.306	118.1	0.794	3.658	295.4	518.2	0.755	---	-1.46	0.340	138.2	273.9	-4.1	0.318
4-2910	4-3550	0.644	33.7	13.8	0.16	1.303	118.0	0.786	3.533	295.4	519.9	0.756	---	-1.42	0.324	135.9	273.0	-4.1	0.303
4-2910	4-3570	0.640	33.8	13.8	0.11	1.299	117.9	0.779	3.432	295.3	521.5	0.757	---	-1.38	0.310	133.5	271.9	-4.1	0.290
4-2910	4-3590	0.637	33.9	13.7	0.05	1.297	117.8	0.774	3.349	295.2	523.0	0.757	---	-1.34	0.297	131.1	270.8	-4.1	0.278
4-2910	4-3610	0.635	34.1	13.7	0.00	1.294	117.8	0.769	3.281	295.0	524.5	0.756	---	-1.31	0.286	128.5	269.5	-4.2	0.268
4-2910	4-3630	0.634	34.2	13.6	-0.05	1.292	117.8	0.766	3.224	294.7	525.9	0.755	---	-1.27	0.275	126.0	268.2	-4.2	0.258
4-2910	4-3650	0.634	34.5	13.6	-0.10	1.290	117.8	0.763	3.177	294.4	527.3	0.754	---	-1.25	0.266	123.3	266.9	-4.2	0.250
4-2910	4-3670	0.635	34.7	13.6	-0.14	1.289	117.9	0.760	3.138	294.0	528.6	0.752	---	-1.22	0.257	120.7	265.5	-4.2	0.243

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2910	4-3690	0.636	35.0	13.6	-0.18	1.288	118.1	0.759	3.106	293.6	529.8	0.749	---	-1.20	0.250	117.9	264.1	-4.2	0.237
4-2910	4-3710	0.638	35.3	13.6	-0.22	1.287	118.2	0.758	3.079	293.2	531.0	0.746	---	-1.17	0.243	115.2	262.7	-4.2	0.233
4-2910	4-3730	0.640	35.6	13.7	-0.26	1.286	118.4	0.757	3.057	292.7	532.2	0.743	---	-1.15	0.237	112.4	261.3	-4.1	0.229
4-2910	4-3750	0.643	35.9	13.7	-0.30	1.285	118.6	0.757	3.039	292.1	533.3	0.739	---	-1.13	0.232	109.7	259.9	-4.1	0.225
4-2910	4-3770	0.647	36.3	13.8	-0.34	1.284	118.9	0.757	3.024	291.5	534.3	0.735	---	-1.12	0.227	106.9	258.5	-4.1	0.223
4-2910	4-3790	0.651	36.7	13.9	-0.37	1.284	119.1	0.758	3.012	290.9	535.3	0.730	---	-1.10	0.223	104.1	257.3	-4.1	0.221
4-2910	4-3810	0.658	37.1	13.9	-0.41	1.283	119.4	0.759	3.004	290.3	536.3	0.725	---	-1.09	0.220	101.4	256.1	-4.0	0.220
4-2910	4-3830	0.661	37.5	14.0	-0.44	1.283	119.7	0.760	2.997	289.6	537.2	0.720	---	-1.07	0.217	98.7	255.0	-4.0	0.220
4-2910	4-3850	0.667	38.0	14.1	-0.47	1.283	120.1	0.761	2.992	288.8	538.1	0.714	---	-1.06	0.214	96.0	253.9	-4.0	0.220
4-2910	4-3870	0.673	38.4	14.2	-0.50	1.283	120.4	0.763	2.990	288.0	539.0	0.708	---	-1.05	0.212	93.4	253.0	-3.9	0.221
4-2910	4-3890	0.679	38.9	14.3	-0.54	1.283	120.8	0.765	2.989	287.2	539.8	0.702	---	-1.04	0.211	90.8	252.2	-3.9	0.222
4-2910	4-3910	0.686	39.4	14.4	-0.57	1.283	121.2	0.767	2.989	286.4	540.5	0.695	5.283	-1.03	0.210	88.3	251.5	-3.9	0.223
4-2910	4-3930	0.693	39.9	14.5	-0.60	1.283	121.6	0.770	2.991	285.5	541.3	0.688	5.293	-1.02	0.209	85.8	250.9	-3.8	0.225
4-2910	4-3950	0.701	40.4	14.7	-0.62	1.283	122.0	0.773	2.994	284.6	542.0	0.681	5.306	-1.02	0.209	83.4	250.4	-3.8	0.227
4-2910	4-3970	0.708	40.9	14.8	-0.65	1.283	122.5	0.775	2.998	283.7	542.6	0.673	5.322	-1.01	0.209	81.0	250.0	-3.8	0.229
4-2910	4-3990	0.717	41.4	14.9	-0.68	1.283	123.0	0.778	3.002	282.7	543.3	0.665	5.339	-1.01	0.209	78.7	249.8	-3.8	0.232
4-2910	4-4010	0.725	42.0	15.1	-0.71	1.284	123.4	0.782	3.008	281.7	543.9	0.657	5.359	-1.00	0.209	76.5	249.6	-3.7	0.235
4-2910	4-4030	0.734	42.5	15.2	-0.74	1.284	123.9	0.785	3.014	280.7	544.5	0.649	5.380	-1.00	0.210	74.4	249.5	-3.7	0.238
4-2910	4-4050	0.743	43.1	15.4	-0.77	1.284	124.5	0.788	3.022	279.7	545.0	0.640	5.403	-1.00	0.211	72.3	249.5	-3.7	0.241
4-2910	4-4070	0.752	43.6	15.5	-0.79	1.284	125.0	0.792	3.029	278.6	545.5	0.631	5.428	-0.99	0.212	70.2	249.6	-3.7	0.245
4-2910	4-4090	0.762	44.2	15.7	-0.82	1.285	125.5	0.795	3.038	277.5	546.0	0.621	5.454	-0.99	0.213	68.3	249.8	-3.7	0.248
4-2910	4-4110	0.772	44.8	15.8	-0.85	1.285	126.1	0.799	3.047	276.4	546.5	0.612	5.482	-0.99	0.214	66.4	250.1	-3.7	0.252
4-2910	4-4130	0.782	45.4	16.0	-0.88	1.286	126.7	0.803	3.056	275.3	546.9	0.602	5.510	-0.99	0.216	64.5	250.4	-3.6	0.256
4-2910	4-4150	0.793	46.0	16.1	-0.90	1.286	127.3	0.807	3.066	274.1	547.3	0.592	5.540	-0.99	0.217	62.7	250.8	-3.6	0.260
4-2910	4-4170	0.803	46.6	16.3	-0.93	1.286	127.9	0.811	3.076	273.0	547.7	0.581	5.571	-1.00	0.219	61.0	251.3	-3.6	0.263
4-2910	4-4190	0.814	47.2	16.4	-0.96	1.287	128.5	0.815	3.087	271.8	548.1	0.570	5.603	-1.00	0.220	59.3	251.8	-3.6	0.267
4-2910	4-4210	0.825	47.8	16.6	-0.98	1.287	129.1	0.819	3.098	270.5	548.4	0.560	5.636	-1.00	0.222	57.7	252.4	-3.6	0.272
4-2910	4-4230	0.837	48.4	16.7	-1.01	1.288	129.8	0.824	3.109	269.3	548.7	0.548	5.670	-1.01	0.224	56.1	253.1	-3.6	0.276
4-2910	4-4250	0.848	49.1	16.9	-1.04	1.288	130.4	0.828	3.121	268.0	549.0	0.537	5.704	-1.01	0.226	54.6	253.8	-3.6	0.280
4-2910	4-4270	0.860	49.7	17.0	-1.07	1.289	131.1	0.832	3.133	266.8	549.3	0.526	5.740	-1.02	0.228	53.1	254.6	-3.6	0.284
4-2910	4-4290	0.872	50.3	17.2	-1.10	1.289	131.8	0.837	3.145	265.5	549.5	0.514	5.776	-1.02	0.230	51.6	255.4	-3.6	0.288
4-2910	4-4310	0.885	51.0	17.4	-1.13	1.290	132.5	0.841	3.157	264.2	549.8	0.502	5.812	-1.03	0.232	50.2	256.2	-3.6	0.293
4-2910	4-4330	0.897	51.6	17.5	-1.15	1.290	133.2	0.846	3.170	262.8	550.0	0.490	5.850	-1.04	0.234	48.8	257.1	-3.6	0.297
4-2910	4-4350	0.910	52.3	17.7	-1.18	1.291	133.9	0.850	3.182	261.5	550.2	0.477	5.888	-1.05	0.236	47.4	258.1	-3.6	0.301
4-2910	4-4370	0.923	52.9	17.8	-1.21	1.291	134.6	0.855	3.196	260.1	550.3	0.465	5.926	-1.06	0.238	46.1	259.1	-3.6	0.306
4-2910	4-4390	0.936	53.6	18.0	-1.24	1.292	135.4	0.859	3.209	258.7	550.5	0.452	5.965	-1.07	0.240	44.8	260.1	-3.6	0.310
4-2910	4-4410	0.949	54.2	18.1	-1.27	1.292	136.1	0.864	3.222	257.3	550.6	0.439	6.005	-1.08	0.242	43.5	261.1	-3.6	0.315
4-2910	4-4430	0.963	54.9	18.3	-1.31	1.293	136.9	0.868	3.236	255.9	550.7	0.426	6.045	-1.09	0.245	42.3	262.2	-3.6	0.319
4-2910	4-4450	0.977	55.6	18.5	-1.34	1.293	137.7	0.873	3.249	254.5	550.8	0.413	6.085	-1.11	0.247	41.1	263.3	-3.6	0.324
4-2910	4-4470	0.990	56.2	18.6	-1.37	1.294	138.5	0.877	3.263	253.0	550.9	0.400	6.126	-1.12	0.249	39.9	264.4	-3.6	0.328
4-2910	4-4490	1.004	56.9	18.8	-1.41	1.294	139.3	0.882	3.277	251.5	550.9	0.387	6.167	-1.14	0.251	38.7	265.6	-3.6	0.333
4-2910	4-4510	1.019	57.6	18.9	-1.44	1.295	140.1	0.887	3.291	250.0	551.0	0.373	6.209	-1.16	0.253	37.6	266.8	-3.6	0.337
4-2920	4-3320	0.777	39.9	19.0	2.11	1.416	121.1	1.02135.767		298.5	493.5	0.745	---	-3.22	0.650	158.1	279.3	-4.3	0.620
4-2920	4-3340	0.746	39.6	18.5	1.77	1.397	120.1	0.98140.258		299.2	496.0	0.755	---	-2.90	0.607	156.6	279.5	-4.2	0.577
4-2920	4-3360	0.719	39.3	18.0	1.50	1.381	119.2	0.94714.405		299.8	498.3	0.765	---	-2.63	0.569	155.1	279.6	-4.2	0.539
4-2920	4-3380	0.696	39.1	17.6	1.27	1.367	118.4	0.917	9.327	300.4	500.6	0.773	---	-2.42	0.534	153.4	279.6	-4.2	0.504
4-2920	4-3400	0.675	38.8	17.2	1.07	1.355	117.7	0.891	7.173	300.9	502.9	0.780	---	-2.24	0.503	151.7	279.5	-4.2	0.472
4-2920	4-3420	0.658	38.6	16.9	0.90	1.345	117.1	0.869	5.991	301.4	505.1	0.787	---	-2.08	0.474	149.9	279.4	-4.1	0.443
4-2920	4-3440	0.643	38.4	16.6	0.76	1.336	116.5	0.849	5.249	301.8	507.2	0.792	---	-1.95	0.448	148.1	279.1	-4.1	0.416
4-2920	4-3460	0.629	38.3	16.3	0.63	1.329	116.1	0.832	4.743	302.1	509.2	0.797	---	-1.83	0.424	146.2	278.7	-4.1	0.392
4-2920	4-3480	0.618	38.2	16.1	0.52	1.322	115.7	0.817	4.380	302.4	511.2	0.801	---	-1.73	0.402	144.2	278.3	-4.1	0.370
4-2920	4-3500	0.609	38.1	15.8	0.42	1.316	115.3	0.804	4.108	302.6	513.1	0.804	---	-1.65	0.382	142.1	277.7	-4.1	0.350
4-2920	4-3520	0.601	38.1	15.6	0.32	1.311	115.0	0.793	3.899	302.7	515.0	0.807	---	-1.57	0.364	140.0	277.0	-4.1	0.332
4-2920	4-3540	0.594	38.1	15.5	0.24	1.307	114.8	0.783	3.734	302.8	516.8	0.809	---	-1.50	0.347	137.8	276.2	-4.2	0.316
4-2920	4-3560	0.588	38.1	15.3	0.17	1.303	114.6	0.775	3.603	302.8	518.5	0.810	---	-1.44	0.332	135.6	275.3	-4.2	0.301
4-2920	4-3580	0.584	38.2	15.2	0.10	1.300	114.5	0.768	3.496	302.8	520.1	0.811	---	-1.38	0.318	133.2	274.4	-4.2	0.287
4-2920	4-3600	0.581	38.3	15.1	0.03	1.297	114.4	0.762	3.409	302.7	521.7	0.811	---	-1.33	0.306	130.8	273.3	-4.2	0.275
4-2920	4-3620	0.578	38.5	15.0	-0.03	1.295	114.4	0.757	3.337	302.6	523.3	0.811	---	-1.28	0.294	128.4	272.1	-4.2	0.265
4-2920	4-3640	0.577	38.6	15.0	-0.08	1.293	114.4	0.753	3.277	302.3	524.7	0.810	---	-1.24	0.284	125.9	270.9	-4.2	0.255
4-2920	4-3660	0.576	38.8	14.9	-0.14	1.291	114.4	0.749	3.227	302.1	526.1	0.809	---	-1.20	0.274	123.4	269.6	-4.2	0.247
4-2920	4-3680	0.576	39.1	14.9	-0.19	1.289	114.5	0.747	3.186	301.8	527.5	0.807	---	-1.17	0.266	120.8	268.2	-4.2	0.239
4-2920	4-3700	0.577	39.4	14.9	-0.23	1.288	114.6	0.744	3.151	301.4	528.8	0.806	---	-1.14	0.258	118.2	266.8	-4.2	0.233
4-2920	4-3720	0.578	39.7	14.9	-0.27	1.287	114.7	0.743	3.123	301.0	530.0	0.803	---	-1.11	0.252	115.6	265.4	-4.2	0.228
4-2920	4-3740	0.580	40.0	14.9	-0.32	1.286	114.9	0.742	3.099	300.6	531.2	0.800	---	-1.08	0.246	113.0	264.0	-4.1	0.223
4-2920	4-3760	0.583	40.4	14.9	-0.36	1.285	115.1	0.741	3.080	300.1	532.4	0.797	---	-1.06	0.240	110.3	262.6	-4.1	0.220
4-2920	4-3780	0.586	40.7	15.0	-0.39	1.284	115.3	0.741	3.064	299.5	533.5	0.794	---	-1.04	0.236	107.7	261.3	-4.1	0.217
4-2920	4-3800	0.590	41.2	15.0	-0.43	1.284	115.5	0.741	3.051	298.9	534.5	0.790	---	-1.01	0.232	105.1	260.0	-4.1	0.215
4-2920	4-3820	0.594	41.6	15.1	-0.46	1.283	115.8	0.742	3.041	298.3	535.5	0.786	---	-1.00	0.228	102.5	258.7	-4.0	0.213
4-2920	4-3840	0.598	42.0	15.2	-0.50	1.283	116.1	0.743	3.034	297.7	536.5	0.781	---	-0.98	0.225	99.9	257.6	-4.0	0.212
4-2920	4-3860	0.603	42.5	15.3	-0.53	1.283	116.4	0.744	3.028	297.0	537.4	0.776	---	-0.96	0.223	97.4	256.5	-4.0	0.212
4-2920	4-3880	0.608	43.0	15.4	-0.56	1.283	116.7	0.745	3.025	296.2	538.3	0.771	---	-0.95	0.221	94.9	255.5	-4.0	0.212
4-2920	4-3900	0.614	43.5	15.5	-0.59	1.283	117.0	0.747	3.023	295.5	539.2	0.766	---	-0.93	0.219	92.5	254.6	-3.9	0.213
4-2920	4-3920	0.620	44.0	15.6	-0.62	1.283	117.4	0.749	3.023	294.7	540.0	0.760	---	-0.92	0.218	90.1	253.8	-3.9	0.214
4-2920	4-3940	0.627	44.5	15.7	-0.65	1.283	117.8	0.751	3.024	293.8	540.8	0.754	5.294	-0.91	0.217	87.7	253.1	-3.9	0.215
4-2920	4-3960	0.633	45.0	15.8	-0.67	1.283	118.2	0.753	3.026	293.0	541.5	0.747	5.305	-0.90	0.217	85.4	252.6	-3.8	0.217
4-2920	4-3980	0.641	45.6	15.9	-0.70	1.283	118.6	0.756	3.029	292.1	542.2	0.741	5.318	-0.89	0.216	83.2	252.1	-3.8	0.219
4-2920	4-4000	0.648	46.1	16.1	-0.73	1.283	119.0	0.758	3.033	291.2	542.9	0.734	5.333	-0.88	0.216	81.0	251.7	-3.8	0.221
4-2920	4-4020	0.656	46.7	16.2	-0.75	1.283	119.5	0.761	3.039	290.2	543.6	0.726	5.351	-0.87	0.217	78.9	251.5	-3.7	0.224
4-2920	4-4040	0.664	47.3	16.3	-0.78	1.283	119.9	0.764	3.045	289.3	544.2	0.719	5.370	-0.87	0.217	76.9	251.3	-3.7	0.227
4-2920	4-4060	0.672	47.9	16.5	-0.80	1.284	120.4	0.767	3.051	288.3	544.8	0.711	5.392	-0.86	0.218	74.9	251.3	-3.7	0.230

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2920	4-4080	0.681	48.5	16.6	-0.82	1.284	120.9	0.770	3.058	287.3	545.3	0.703	5.414	-0.86	0.219	72.9	251.3	-3.7	0.233
4-2920	4-4100	0.689	49.1	16.7	-0.85	1.284	121.4	0.774	3.066	286.2	545.9	0.694	5.439	-0.85	0.220	71.1	251.4	-3.7	0.236
4-2920	4-4120	0.698	49.7	16.9	-0.87	1.285	121.9	0.777	3.075	285.2	546.4	0.686	5.464	-0.85	0.221	69.3	251.6	-3.6	0.239
4-2920	4-4140	0.708	50.3	17.0	-0.90	1.285	122.5	0.781	3.084	284.1	546.9	0.677	5.491	-0.84	0.222	67.5	251.8	-3.6	0.243
4-2920	4-4160	0.717	50.9	17.2	-0.92	1.285	123.0	0.784	3.093	283.0	547.3	0.667	5.519	-0.84	0.223	65.8	252.2	-3.6	0.246
4-2920	4-4180	0.727	51.6	17.3	-0.94	1.286	123.6	0.788	3.103	281.9	547.8	0.658	5.548	-0.84	0.225	64.1	252.6	-3.6	0.250
4-2920	4-4200	0.737	52.2	17.5	-0.96	1.286	124.1	0.792	3.113	280.7	548.2	0.648	5.578	-0.84	0.226	62.5	253.0	-3.6	0.254
4-2920	4-4220	0.748	52.8	17.6	-0.99	1.287	124.7	0.796	3.124	279.5	548.6	0.638	5.609	-0.84	0.228	60.9	253.6	-3.6	0.257
4-2920	4-4240	0.758	53.5	17.8	-1.01	1.287	125.3	0.800	3.135	278.4	548.9	0.628	5.641	-0.84	0.229	59.4	254.2	-3.6	0.261
4-2920	4-4260	0.769	54.1	17.9	-1.03	1.288	125.9	0.804	3.146	277.2	549.3	0.617	5.674	-0.84	0.231	57.9	254.8	-3.6	0.265
4-2920	4-4280	0.780	54.8	18.1	-1.06	1.288	126.6	0.808	3.157	275.9	549.6	0.607	5.708	-0.84	0.233	56.5	255.5	-3.6	0.269
4-2920	4-4300	0.791	55.4	18.2	-1.08	1.289	127.2	0.812	3.169	274.7	549.9	0.596	5.742	-0.84	0.235	55.1	256.3	-3.6	0.273
4-2920	4-4320	0.803	56.1	18.4	-1.10	1.289	127.8	0.816	3.181	273.4	550.2	0.585	5.778	-0.84	0.237	53.7	257.1	-3.6	0.277
4-2920	4-4340	0.814	56.8	18.5	-1.12	1.289	128.5	0.820	3.193	272.2	550.4	0.573	5.813	-0.85	0.239	52.4	257.9	-3.6	0.281
4-2920	4-4360	0.826	57.4	18.7	-1.15	1.290	129.2	0.825	3.206	270.9	550.7	0.562	5.850	-0.85	0.241	51.1	258.8	-3.6	0.285
4-2920	4-4380	0.838	58.1	18.8	-1.17	1.290	129.8	0.829	3.218	269.5	550.9	0.550	5.887	-0.85	0.242	49.8	259.7	-3.6	0.289
4-2920	4-4400	0.851	58.8	18.9	-1.19	1.291	130.5	0.834	3.231	268.2	551.1	0.538	5.924	-0.86	0.244	48.6	260.6	-3.6	0.293
4-2920	4-4420	0.863	59.5	19.1	-1.22	1.291	131.2	0.838	3.244	266.9	551.3	0.526	5.963	-0.86	0.246	47.4	261.6	-3.6	0.298
4-2920	4-4440	0.876	60.2	19.2	-1.24	1.292	132.0	0.842	3.257	265.5	551.5	0.513	6.001	-0.87	0.249	46.2	262.7	-3.6	0.302
4-2920	4-4460	0.888	60.8	19.4	-1.27	1.292	132.7	0.847	3.271	264.1	551.6	0.501	6.040	-0.88	0.251	45.0	263.7	-3.6	0.306
4-2920	4-4480	0.901	61.5	19.5	-1.29	1.293	133.4	0.851	3.284	262.7	551.7	0.488	6.080	-0.89	0.253	43.9	264.8	-3.6	0.310
4-2920	4-4500	0.915	62.2	19.6	-1.32	1.293	134.2	0.856	3.297	261.3	551.8	0.475	6.120	-0.89	0.255	42.7	265.9	-3.6	0.315
4-2920	4-4520	0.928	62.9	19.8	-1.34	1.294	134.9	0.860	3.311	259.9	551.9	0.462	6.160	-0.90	0.257	41.6	267.0	-3.5	0.319
4-2930	4-3330	0.725	43.3	25.3	4.81	1.416	117.7	1.02630.639		305.3	491.6	0.797	---	-5.97	0.653	157.5	280.9	-5.4	0.618
4-2930	4-3350	0.693	43.2	23.2	3.52	1.397	116.7	0.98449.799		306.1	494.1	0.807	---	-4.69	0.611	156.0	281.1	-5.0	0.575
4-2930	4-3370	0.665	43.1	21.7	2.69	1.381	115.8	0.94715.474		306.8	496.6	0.816	---	-3.87	0.573	154.4	281.2	-4.8	0.536
4-2930	4-3390	0.641	42.9	20.7	2.10	1.367	115.1	0.916	9.766	307.4	498.9	0.824	---	-3.29	0.539	152.8	281.3	-4.6	0.501
4-2930	4-3410	0.621	42.7	19.8	1.67	1.356	114.4	0.888	7.430	308.0	501.2	0.831	---	-2.87	0.507	151.1	281.3	-4.5	0.470
4-2930	4-3430	0.603	42.5	19.2	1.33	1.345	113.7	0.864	6.168	308.5	503.5	0.837	---	-2.55	0.479	149.3	281.1	-4.4	0.441
4-2930	4-3450	0.588	42.3	18.6	1.07	1.337	113.2	0.844	5.383	309.0	505.7	0.842	---	-2.29	0.453	147.5	280.9	-4.4	0.414
4-2930	4-3470	0.575	42.1	18.1	0.85	1.329	112.7	0.826	4.852	309.4	507.8	0.846	---	-2.09	0.429	145.6	280.6	-4.3	0.390
4-2930	4-3490	0.564	42.0	17.7	0.67	1.322	112.3	0.810	4.472	309.7	509.8	0.850	---	-1.91	0.408	143.6	280.2	-4.3	0.368
4-2930	4-3510	0.554	41.9	17.3	0.52	1.317	112.0	0.796	4.188	310.0	511.8	0.853	---	-1.77	0.388	141.6	279.6	-4.2	0.348
4-2930	4-3530	0.546	41.8	17.0	0.39	1.312	111.7	0.784	3.970	310.2	513.7	0.856	---	-1.65	0.370	139.5	279.0	-4.2	0.330
4-2930	4-3550	0.539	41.8	16.8	0.27	1.307	111.5	0.774	3.799	310.3	515.5	0.858	---	-1.55	0.353	137.4	278.3	-4.2	0.313
4-2930	4-3570	0.534	41.8	16.5	0.17	1.304	111.3	0.765	3.662	310.4	517.3	0.859	---	-1.45	0.338	135.1	277.4	-4.2	0.298
4-2930	4-3590	0.529	41.9	16.3	0.08	1.300	111.2	0.758	3.551	310.4	519.0	0.860	---	-1.38	0.325	132.9	276.5	-4.2	0.285
4-2930	4-3610	0.526	42.0	16.2	0.00	1.297	111.1	0.751	3.460	310.4	520.6	0.861	---	-1.31	0.312	130.5	275.5	-4.2	0.273
4-2930	4-3630	0.523	42.1	16.1	-0.07	1.295	111.0	0.746	3.385	310.3	522.2	0.861	---	-1.24	0.301	128.2	274.4	-4.2	0.262
4-2930	4-3650	0.521	42.3	15.9	-0.14	1.293	111.0	0.741	3.323	310.1	523.7	0.860	---	-1.19	0.291	125.8	273.2	-4.2	0.252
4-2930	4-3670	0.520	42.5	15.9	-0.20	1.291	111.0	0.737	3.271	309.9	525.2	0.860	---	-1.14	0.281	123.3	271.9	-4.2	0.243
4-2930	4-3690	0.520	42.8	15.8	-0.25	1.289	111.1	0.734	3.228	309.6	526.6	0.858	---	-1.10	0.273	120.8	270.6	-4.2	0.236
4-2930	4-3710	0.520	43.1	15.8	-0.30	1.288	111.2	0.732	3.192	309.3	527.9	0.857	---	-1.06	0.266	118.3	269.2	-4.1	0.229
4-2930	4-3730	0.521	43.4	15.8	-0.35	1.287	111.3	0.730	3.162	308.9	529.2	0.855	---	-1.02	0.259	115.8	267.9	-4.1	0.223
4-2930	4-3750	0.523	43.8	15.8	-0.39	1.286	111.4	0.728	3.137	308.5	530.4	0.853	---	-0.99	0.253	113.3	266.5	-4.1	0.219
4-2930	4-3770	0.525	44.1	15.8	-0.43	1.285	111.6	0.727	3.117	308.0	531.6	0.850	---	-0.96	0.248	110.8	265.1	-4.1	0.215
4-2930	4-3790	0.528	44.6	15.8	-0.47	1.284	111.8	0.727	3.100	307.5	532.7	0.847	---	-0.93	0.243	108.3	263.7	-4.1	0.211
4-2930	4-3810	0.531	45.0	15.9	-0.51	1.284	112.0	0.726	3.086	307.0	533.8	0.844	---	-0.90	0.239	105.8	262.4	-4.0	0.209
4-2930	4-3830	0.534	45.4	15.9	-0.54	1.283	112.2	0.727	3.076	306.4	534.9	0.841	---	-0.88	0.236	103.3	261.1	-4.0	0.207
4-2930	4-3850	0.538	45.9	16.0	-0.58	1.283	112.5	0.727	3.067	305.8	535.9	0.837	---	-0.86	0.233	100.8	259.9	-4.0	0.206
4-2930	4-3870	0.542	46.4	16.1	-0.61	1.283	112.8	0.728	3.061	305.1	536.8	0.833	---	-0.84	0.230	98.4	258.8	-3.9	0.205
4-2930	4-3890	0.547	46.9	16.2	-0.64	1.283	113.1	0.729	3.057	304.4	537.7	0.828	---	-0.82	0.228	96.1	257.8	-3.9	0.205
4-2930	4-3910	0.552	47.5	16.3	-0.66	1.283	113.4	0.730	3.055	303.7	538.6	0.824	---	-0.80	0.226	93.7	256.8	-3.9	0.205
4-2930	4-3930	0.558	48.0	16.4	-0.69	1.283	113.7	0.732	3.054	303.0	539.5	0.819	---	-0.79	0.225	91.4	256.0	-3.8	0.206
4-2930	4-3950	0.563	48.6	16.5	-0.72	1.283	114.1	0.734	3.055	302.2	540.3	0.813	5.296	-0.78	0.224	89.2	255.2	-3.8	0.207
4-2930	4-3970	0.570	49.2	16.6	-0.74	1.283	114.4	0.736	3.056	301.3	541.1	0.808	5.305	-0.76	0.224	87.0	254.6	-3.8	0.209
4-2930	4-3990	0.576	49.8	16.7	-0.77	1.283	114.8	0.738	3.059	300.5	541.8	0.802	5.316	-0.75	0.223	84.9	254.1	-3.7	0.210
4-2930	4-4010	0.583	50.4	16.8	-0.79	1.283	115.2	0.740	3.063	299.6	542.5	0.796	5.330	-0.74	0.223	82.8	253.6	-3.7	0.212
4-2930	4-4030	0.590	51.0	17.0	-0.81	1.283	115.6	0.743	3.068	298.7	543.2	0.790	5.346	-0.73	0.223	80.8	253.3	-3.7	0.215
4-2930	4-4050	0.597	51.6	17.1	-0.84	1.283	116.1	0.745	3.073	297.8	543.9	0.783	5.364	-0.72	0.224	78.9	253.1	-3.7	0.217
4-2930	4-4070	0.605	52.2	17.2	-0.86	1.284	116.5	0.748	3.080	296.8	544.5	0.776	5.383	-0.71	0.224	77.0	252.9	-3.6	0.220
4-2930	4-4090	0.612	52.9	17.4	-0.88	1.284	117.0	0.751	3.086	295.9	545.1	0.769	5.404	-0.70	0.225	75.2	252.9	-3.6	0.222
4-2930	4-4110	0.620	53.5	17.5	-0.90	1.284	117.4	0.754	3.094	294.9	545.7	0.761	5.427	-0.70	0.226	73.4	252.9	-3.6	0.225
4-2930	4-4130	0.629	54.2	17.7	-0.92	1.285	117.9	0.757	3.102	293.8	546.2	0.754	5.450	-0.69	0.227	71.6	253.1	-3.6	0.228
4-2930	4-4150	0.637	54.8	17.8	-0.94	1.285	118.4	0.760	3.111	292.8	546.8	0.746	5.476	-0.68	0.228	69.9	253.3	-3.6	0.232
4-2930	4-4170	0.646	55.5	18.0	-0.96	1.285	118.9	0.764	3.120	291.7	547.3	0.738	5.502	-0.68	0.229	68.3	253.5	-3.6	0.235
4-2930	4-4190	0.655	56.2	18.1	-0.98	1.286	119.5	0.767	3.129	290.7	547.7	0.729	5.529	-0.68	0.230	66.7	253.9	-3.5	0.238
4-2930	4-4210	0.665	56.9	18.2	-1.00	1.286	120.0	0.770	3.139	289.6	548.2	0.720	5.558	-0.67	0.232	65.2	254.3	-3.5	0.242
4-2930	4-4230	0.674	57.5	18.4	-1.01	1.286	120.5	0.774	3.149	288.4	548.6	0.712	5.587	-0.67	0.233	63.7	254.7	-3.5	0.245
4-2930	4-4250	0.684	58.2	18.5	-1.03	1.287	121.1	0.778	3.160	287.3	549.0	0.702	5.618	-0.67	0.235	62.2	255.3	-3.5	0.249
4-2930	4-4270	0.694	58.9	18.7	-1.05	1.287	121.7	0.781	3.171	286.1	549.4	0.693	5.649	-0.66	0.236	60.8	255.9	-3.5	0.252
4-2930	4-4290	0.704	59.6	18.8	-1.07	1.288	122.2	0.785	3.182	285.0	549.8	0.683	5.681	-0.66	0.238	59.4	256.5	-3.5	0.256
4-2930	4-4310	0.714	60.3	19.0	-1.09	1.288	122.8	0.789	3.193	283.8	550.1	0.673	5.714	-0.66	0.240	58.1	257.2	-3.5	0.260
4-2930	4-4330	0.725	61.0	19.1	-1.10	1.289	123.4	0.793	3.205	282.6	550.5	0.663	5.747	-0.66	0.241	56.8	257.9	-3.5	0.263
4-2930	4-4350	0.736	61.7	19.2	-1.12	1.289	124.1	0.797	3.217	281.3	550.8	0.653	5.781	-0.66	0.243	55.5	258.7	-3.5	0.267
4-2930	4-4370	0.747	62.4	19.4	-1.14	1.289	124.7	0.801	3.229	280.1	551.1	0.642	5.816	-0.66	0.245	54.3	259.5	-3.5	0.271
4-2930	4-4390	0.758	63.1	19.5	-1.16	1.290	125.3	0.805	3.241	278.8	551.3	0.631	5.852	-0.66	0.247	53.0	260.4	-3.5	0.275
4-2930	4-4410	0.769	63.8	19.6	-1.17	1.290	126.0	0.809	3.254	277.5	551.6	0.620	5.888	-0.66	0.249	51.8	261.3	-3.5	0.279
4-2930	4-4430	0.781	64.5	19.8	-1.19	1.291	126.6	0.814	3.267	276.2	551.8	0.609	5.924	-0.66	0.251	50.7	262.3	-3.5	0.282
4-2930	4-4450	0.793	65.2	19.9	-1.21	1.291	127.3	0.818	3.279	274.9	552.0	0.597	5.962	-0.66	0.252	49.5	263.2	-3.5	0.286

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2930	4-4470	0.805	66.0	20.0	-1.23	1.292	128.0	0.822	3.292	273.6	552.2	0.585	6.999	-0.67	0.254	48.4	264.2	-3.5	0.290
4-2930	4-4490	0.817	66.7	20.2	-1.25	1.292	128.7	0.827	3.305	272.3	552.4	0.573	6.037	-0.67	0.256	47.3	265.3	-3.5	0.294
4-2930	4-4510	0.829	67.4	20.3	-1.26	1.293	129.4	0.831	3.319	270.9	552.6	0.561	6.076	-0.67	0.258	46.2	266.3	-3.5	0.298
4-2930	4-4530	0.842	68.1	20.4	-1.28	1.293	130.1	0.835	3.332	269.5	552.7	0.549	6.115	-0.68	0.260	45.2	267.4	-3.5	0.302
4-2940	4-3340	0.703	57.1	-3.3	-12.12	1.416	114.2	1.02928.934		312.4	490.0	0.848	---	10.91	0.654	156.8	282.0	1.6	0.616
4-2940	4-3360	0.944	79.2	-30.9	-36.34	1.397	113.1	0.98556.156		313.3	492.5	0.857	---	35.12	0.613	155.3	278.3	11.1	0.606
4-2940	4-3380	0.743	41.0	58.3	21.96	1.381	112.4	0.94616.109		313.9	495.1	0.864	---	-23.18	0.575	153.7	280.9	-13.5	0.549
4-2940	4-3400	0.606	43.2	34.6	8.11	1.368	111.6	0.91310.036		314.6	497.5	0.871	---	-9.34	0.541	152.1	282.6	-7.7	0.500
4-2940	4-3420	0.572	44.3	27.5	4.58	1.356	110.9	0.884	7.595	315.3	499.9	0.878	---	-5.82	0.510	150.4	282.7	-6.1	0.467
4-2940	4-3440	0.552	44.6	24.1	2.98	1.346	110.3	0.860	6.287	315.9	502.2	0.883	---	-4.23	0.482	148.7	282.7	-5.4	0.438
4-2940	4-3460	0.535	44.7	22.1	2.07	1.337	109.8	0.838	5.477	316.4	504.4	0.888	---	-3.33	0.456	146.8	282.5	-5.0	0.411
4-2940	4-3480	0.522	44.7	20.7	1.48	1.329	109.3	0.819	4.930	316.9	506.6	0.892	---	-2.74	0.433	145.0	282.2	-4.8	0.387
4-2940	4-3500	0.511	44.6	19.7	1.07	1.323	108.9	0.803	4.539	317.3	508.7	0.895	---	-2.34	0.411	143.0	281.8	-4.6	0.365
4-2940	4-3520	0.501	44.6	18.9	0.76	1.317	108.6	0.789	4.248	317.6	510.7	0.898	---	-2.04	0.392	141.0	281.3	-4.5	0.345
4-2940	4-3540	0.493	44.6	18.3	0.53	1.312	108.3	0.776	4.024	317.8	512.6	0.901	---	-1.81	0.374	139.0	280.7	-4.4	0.327
4-2940	4-3560	0.487	44.5	17.8	0.34	1.308	108.1	0.766	3.849	318.0	514.5	0.902	---	-1.63	0.358	136.8	280.1	-4.3	0.311
4-2940	4-3580	0.481	44.6	17.4	0.19	1.304	107.9	0.756	3.709	318.1	516.3	0.904	---	-1.48	0.343	134.7	279.3	-4.2	0.296
4-2940	4-3600	0.476	44.6	17.1	0.06	1.301	107.8	0.748	3.595	318.2	518.1	0.905	---	-1.36	0.330	132.4	278.4	-4.2	0.282
4-2940	4-3620	0.473	44.7	16.8	-0.05	1.298	107.7	0.741	3.502	318.2	519.7	0.905	---	-1.26	0.317	130.2	277.4	-4.2	0.270
4-2940	4-3640	0.470	44.9	16.6	-0.14	1.295	107.6	0.736	3.425	318.1	521.3	0.905	---	-1.17	0.306	127.8	276.3	-4.1	0.259
4-2940	4-3660	0.468	45.1	16.4	-0.23	1.293	107.6	0.731	3.361	318.0	522.9	0.905	---	-1.10	0.296	125.5	275.1	-4.1	0.249
4-2940	4-3680	0.467	45.3	16.3	-0.30	1.291	107.6	0.727	3.308	317.8	524.4	0.905	---	-1.03	0.287	123.1	273.9	-4.1	0.240
4-2940	4-3700	0.467	45.6	16.2	-0.36	1.290	107.6	0.723	3.264	317.6	525.8	0.904	---	-0.98	0.279	120.7	272.6	-4.1	0.232
4-2940	4-3720	0.467	45.9	16.2	-0.42	1.288	107.7	0.720	3.227	317.3	527.1	0.903	---	-0.93	0.271	118.3	271.3	-4.1	0.225
4-2940	4-3740	0.467	46.2	16.1	-0.47	1.287	107.8	0.718	3.196	317.0	528.5	0.901	---	-0.88	0.265	115.9	269.9	-4.0	0.219
4-2940	4-3760	0.468	46.6	16.1	-0.51	1.286	107.9	0.716	3.170	316.6	529.7	0.899	---	-0.84	0.259	113.4	268.6	-4.0	0.214
4-2940	4-3780	0.470	47.0	16.1	-0.56	1.285	108.1	0.715	3.149	316.1	530.9	0.897	---	-0.81	0.254	111.0	267.2	-4.0	0.210
4-2940	4-3800	0.472	47.5	16.1	-0.60	1.285	108.3	0.714	3.132	315.7	532.1	0.895	---	-0.78	0.249	108.6	265.8	-3.9	0.207
4-2940	4-3820	0.475	47.9	16.2	-0.63	1.284	108.5	0.714	3.118	315.2	533.2	0.892	---	-0.75	0.245	106.2	264.5	-3.9	0.204
4-2940	4-3840	0.478	48.4	16.2	-0.66	1.284	108.7	0.714	3.106	314.6	534.3	0.889	---	-0.72	0.242	103.8	263.2	-3.9	0.202
4-2940	4-3860	0.481	49.0	16.3	-0.70	1.283	108.9	0.714	3.098	314.0	535.3	0.886	---	-0.70	0.239	101.4	262.0	-3.9	0.201
4-2940	4-3880	0.485	49.5	16.4	-0.72	1.283	109.2	0.714	3.091	313.4	536.3	0.883	---	-0.68	0.236	99.1	260.9	-3.8	0.200
4-2940	4-3900	0.489	50.1	16.5	-0.75	1.283	109.5	0.715	3.087	312.7	537.2	0.879	---	-0.66	0.234	96.9	259.8	-3.8	0.199
4-2940	4-3920	0.494	50.7	16.6	-0.78	1.283	109.8	0.716	3.084	312.0	538.2	0.875	---	-0.64	0.233	94.6	258.8	-3.8	0.199
4-2940	4-3940	0.499	51.3	16.7	-0.80	1.283	110.1	0.717	3.083	311.3	539.0	0.871	---	-0.62	0.231	92.5	257.9	-3.7	0.200
4-2940	4-3960	0.504	51.9	16.8	-0.82	1.283	110.4	0.719	3.083	310.5	539.9	0.867	---	-0.61	0.230	90.3	257.1	-3.7	0.200
4-2940	4-3980	0.509	52.6	16.9	-0.85	1.283	110.8	0.721	3.084	309.7	540.7	0.862	5.307	-0.59	0.230	88.3	256.5	-3.7	0.202
4-2940	4-4000	0.515	53.2	17.1	-0.87	1.283	111.1	0.722	3.087	308.9	541.5	0.857	5.317	-0.58	0.229	86.2	255.9	-3.6	0.203
4-2940	4-4020	0.521	53.9	17.2	-0.89	1.283	111.5	0.724	3.090	308.1	542.2	0.852	5.329	-0.57	0.229	84.3	255.4	-3.6	0.205
4-2940	4-4040	0.527	54.6	17.4	-0.91	1.283	111.9	0.727	3.095	307.2	542.9	0.846	5.343	-0.56	0.229	82.3	255.0	-3.6	0.207
4-2940	4-4060	0.534	55.3	17.5	-0.92	1.283	112.3	0.729	3.100	306.3	543.6	0.841	5.359	-0.55	0.229	80.5	254.7	-3.6	0.209
4-2940	4-4080	0.541	56.0	17.6	-0.94	1.284	112.7	0.731	3.106	305.4	544.3	0.835	5.377	-0.54	0.230	78.7	254.5	-3.5	0.211
4-2940	4-4100	0.548	56.7	17.8	-0.96	1.284	113.2	0.734	3.113	304.4	544.9	0.829	5.397	-0.53	0.230	76.9	254.4	-3.5	0.214
4-2940	4-4120	0.555	57.4	17.9	-0.98	1.284	113.6	0.736	3.120	303.5	545.5	0.822	5.418	-0.52	0.231	75.2	254.4	-3.5	0.216
4-2940	4-4140	0.563	58.1	18.1	-0.99	1.285	114.1	0.739	3.128	302.5	546.1	0.816	5.440	-0.52	0.232	73.5	254.5	-3.5	0.219
4-2940	4-4160	0.571	58.8	18.2	-1.01	1.285	114.5	0.742	3.136	301.5	546.6	0.809	5.464	-0.51	0.233	71.9	254.6	-3.5	0.222
4-2940	4-4180	0.579	59.5	18.4	-1.02	1.285	115.0	0.745	3.145	300.4	547.2	0.802	5.489	-0.50	0.234	70.4	254.8	-3.5	0.225
4-2940	4-4200	0.587	60.3	18.5	-1.04	1.286	115.5	0.748	3.154	299.4	547.7	0.794	5.515	-0.50	0.235	68.8	255.1	-3.4	0.228
4-2940	4-4220	0.596	61.0	18.7	-1.05	1.286	116.0	0.751	3.164	298.3	548.2	0.787	5.541	-0.49	0.237	67.4	255.5	-3.4	0.231
4-2940	4-4240	0.604	61.7	18.8	-1.07	1.286	116.5	0.755	3.174	297.2	548.6	0.779	5.569	-0.49	0.238	65.9	255.9	-3.4	0.234
4-2940	4-4260	0.613	62.5	19.0	-1.08	1.287	117.0	0.758	3.184	296.1	549.1	0.770	5.598	-0.48	0.239	64.5	256.4	-3.4	0.238
4-2940	4-4280	0.622	63.2	19.1	-1.09	1.287	117.6	0.761	3.195	295.0	549.5	0.762	5.628	-0.48	0.241	63.2	256.9	-3.4	0.241
4-2940	4-4300	0.632	64.0	19.3	-1.11	1.288	118.1	0.765	3.206	293.9	549.9	0.754	5.658	-0.48	0.242	61.9	257.5	-3.4	0.244
4-2940	4-4320	0.641	64.7	19.4	-1.12	1.288	118.7	0.769	3.217	292.7	550.3	0.745	5.690	-0.47	0.244	60.6	258.2	-3.4	0.248
4-2940	4-4340	0.651	65.5	19.5	-1.13	1.288	119.2	0.772	3.229	291.6	550.7	0.736	5.722	-0.47	0.246	59.3	258.9	-3.4	0.251
4-2940	4-4360	0.661	66.2	19.7	-1.15	1.289	119.8	0.776	3.240	290.4	551.0	0.726	5.754	-0.47	0.247	58.1	259.6	-3.4	0.255
4-2940	4-4380	0.671	67.0	19.8	-1.16	1.289	120.4	0.780	3.252	289.2	551.4	0.717	5.788	-0.47	0.249	56.9	260.4	-3.4	0.258
4-2940	4-4400	0.682	67.7	19.9	-1.17	1.290	121.0	0.783	3.264	288.0	551.7	0.707	5.822	-0.46	0.251	55.7	261.2	-3.4	0.262
4-2940	4-4420	0.692	68.5	20.1	-1.18	1.290	121.6	0.787	3.276	286.7	552.0	0.697	5.856	-0.46	0.253	54.6	262.1	-3.4	0.266
4-2940	4-4440	0.703	69.3	20.2	-1.20	1.291	122.2	0.791	3.289	285.5	552.2	0.686	5.891	-0.46	0.254	53.5	262.9	-3.4	0.269
4-2940	4-4460	0.714	70.0	20.3	-1.21	1.291	122.8	0.795	3.301	284.2	552.5	0.676	5.927	-0.46	0.256	52.4	263.9	-3.4	0.273
4-2940	4-4480	0.725	70.8	20.4	-1.22	1.292	123.5	0.799	3.314	282.9	552.8	0.665	5.963	-0.46	0.258	51.3	264.8	-3.4	0.277
4-2940	4-4500	0.736	71.5	20.6	-1.23	1.292	124.1	0.803	3.327	281.6	553.0	0.654	6.000	-0.46	0.260	50.3	265.8	-3.4	0.280
4-2940	4-4520	0.748	72.3	20.7	-1.24	1.292	124.8	0.807	3.340	280.3	553.2	0.643	6.037	-0.46	0.262	49.3	266.9	-3.4	0.284
4-2940	4-4540	0.760	73.1	20.8	-1.26	1.293	125.4	0.812	3.353	279.0	553.4	0.632	6.074	-0.46	0.264	48.2	267.9	-3.4	0.288
4-2950	4-3330	0.638	54.2	14.2	-2.39	1.436	111.5	1.08410.500		318.8	486.0	0.885	---	1.14	0.699	157.5	283.6	-2.5	0.653
4-2950	4-3350	0.606	53.6	13.5	-2.57	1.415	110.5	1.03029.804		319.7	488.6	0.894	---	1.32	0.653	156.1	283.9	-2.4	0.607
4-2950	4-3370	0.579	53.1	12.5	-2.82	1.396	109.5	0.98454.983		320.6	491.3	0.902	---	1.56	0.612	154.6	284.1	-2.3	0.565
4-2950	4-3390	0.555	52.6	11.3	-3.17	1.381	108.7	0.94416.145		321.4	493.8	0.909	---	1.91	0.575	153.0	284.2	-2.0	0.527
4-2950	4-3410	0.535	52.4	9.6	-3.73	1.367	108.0	0.90910.093		322.2	496.3	0.915	---	2.47	0.541	151.4	284.2	-1.7	0.493
4-2950	4-3430	0.520	52.6	6.8	-4.76	1.355	107.3	0.880	7.649	322.9	498.8	0.920	---	3.48	0.511	149.7	284.2	-1.0	0.462
4-2950	4-3450	0.516	54.1	0.6	-7.20	1.345	106.7	0.854	6.336	323.6	501.1	0.925	---	5.92	0.483	148.0	283.9	0.5	0.434
4-2950	4-3470	0.627	66.7	-25.1	-20.57	1.337	106.2	0.832	5.521	324.2	503.4	0.929	---	19.29	0.457	146.2	282.0	8.5	0.422
4-2950	4-3490	0.535	38.7	49.9	13.08	1.329	105.8	0.812	4.972	324.6	505.6	0.932	---	-14.36	0.434	144.3	282.7	-12.2	0.392
4-2950	4-3510	0.466	44.0	28.5	4.08	1.323	105.4	0.796	4.578	325.1	507.8	0.935	---	-5.37	0.413	142.4	283.2	-6.7	0.363
4-2950	4-3530	0.452	45.2	23.0	2.01	1.317	105.1	0.781	4.285	325.4	509.8	0.938	---	-3.30	0.394	140.4	282.8	-5.4	0.342
4-2950	4-3550	0.444	45.6	20.5	1.09	1.312	104.8	0.769	4.059	325.7	511.8	0.940	---	-2.38	0.377	138.4	282.2	-4.8	0.324
4-2950	4-3570	0.437	45.8	19.0	0.57	1.308	104.6	0.758	3.882	326.0	513.7	0.941	---	-1.87	0.361	136.3	281.5	-4.5	0.307
4-2950	4-3590	0.431	45.9	18.0	0.24	1.304	104.4	0.748	3.741	326.1	515.6	0.942	---	-1.54	0.346	134.1	280.8	-4.3	0.292
4-2950	4-3610	0.427	46.0	17.3	0.00	1.301	104.3	0.740	3.626	326.2	517.4	0.943	---	-1.31	0.333	131.9	279.9	-4.2	0.279

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2950	4-3630	0.423	46.2	16.8	-0.17	1.298	104.2	0.733	3.532	326.2	519.1	0.944	---	-1.14	0.321	129.7	278.9	-4.1	0.266
4-2950	4-3650	0.421	46.3	16.5	-0.30	1.296	104.1	0.727	3.455	326.2	520.7	0.944	---	-1.01	0.310	127.4	277.9	-4.0	0.255
4-2950	4-3670	0.419	46.6	16.2	-0.41	1.293	104.1	0.722	3.391	326.1	522.3	0.944	---	-0.91	0.300	125.1	276.7	-4.0	0.245
4-2950	4-3690	0.418	46.8	16.0	-0.49	1.292	104.1	0.717	3.337	325.9	523.8	0.944	---	-0.83	0.291	122.8	275.5	-3.9	0.237
4-2950	4-3710	0.417	47.1	15.9	-0.57	1.290	104.2	0.714	3.292	325.7	525.2	0.943	---	-0.76	0.283	120.4	274.3	-3.9	0.229
4-2950	4-3730	0.417	47.4	15.8	-0.63	1.289	104.3	0.711	3.255	325.5	526.6	0.942	---	-0.70	0.276	118.1	273.0	-3.8	0.222
4-2950	4-3750	0.417	47.8	15.7	-0.68	1.288	104.4	0.708	3.223	325.2	527.9	0.941	---	-0.65	0.269	115.7	271.6	-3.8	0.216
4-2950	4-3770	0.418	48.2	15.7	-0.72	1.287	104.5	0.706	3.197	324.8	529.2	0.939	---	-0.61	0.264	113.4	270.3	-3.8	0.211
4-2950	4-3790	0.419	48.7	15.7	-0.76	1.286	104.6	0.705	3.176	324.4	530.4	0.938	---	-0.58	0.258	111.0	268.9	-3.7	0.206
4-2950	4-3810	0.421	49.2	15.7	-0.80	1.285	104.8	0.704	3.158	323.9	531.6	0.936	---	-0.54	0.254	108.7	267.6	-3.7	0.203
4-2950	4-3830	0.423	49.7	15.8	-0.83	1.285	105.0	0.703	3.144	323.4	532.7	0.934	---	-0.52	0.250	106.3	266.2	-3.7	0.200
4-2950	4-3850	0.426	50.3	15.9	-0.86	1.284	105.2	0.703	3.132	322.9	533.8	0.931	---	-0.49	0.247	104.1	265.0	-3.7	0.198
4-2950	4-3870	0.429	50.9	16.0	-0.89	1.284	105.4	0.703	3.123	322.3	534.9	0.929	---	-0.47	0.244	101.8	263.7	-3.6	0.196
4-2950	4-3890	0.432	51.5	16.1	-0.91	1.283	105.7	0.703	3.117	321.7	535.9	0.926	---	-0.45	0.241	99.6	262.6	-3.6	0.195
4-2950	4-3910	0.436	52.2	16.2	-0.93	1.283	105.9	0.703	3.112	321.1	536.9	0.923	---	-0.43	0.239	97.4	261.5	-3.6	0.194
4-2950	4-3930	0.440	52.8	16.3	-0.95	1.283	106.2	0.704	3.109	320.4	537.8	0.920	---	-0.42	0.238	95.2	260.5	-3.5	0.194
4-2950	4-3950	0.444	53.5	16.5	-0.97	1.283	106.5	0.705	3.108	319.7	538.7	0.916	---	-0.40	0.236	93.1	259.6	-3.5	0.194
4-2950	4-3970	0.448	54.2	16.6	-0.99	1.283	106.8	0.706	3.108	318.9	539.5	0.913	---	-0.39	0.235	91.1	258.8	-3.5	0.195
4-2950	4-3990	0.453	55.0	16.8	-1.00	1.283	107.2	0.708	3.109	318.2	540.4	0.909	5.309	-0.38	0.235	89.1	258.1	-3.5	0.196
4-2950	4-4010	0.458	55.7	16.9	-1.02	1.283	107.5	0.709	3.111	317.4	541.2	0.905	5.318	-0.37	0.234	87.2	257.5	-3.4	0.197
4-2950	4-4030	0.464	56.5	17.1	-1.03	1.283	107.9	0.711	3.115	316.5	541.9	0.901	5.329	-0.35	0.234	85.3	256.9	-3.4	0.198
4-2950	4-4050	0.469	57.2	17.3	-1.04	1.284	108.2	0.713	3.119	315.7	542.7	0.896	5.342	-0.35	0.234	83.4	256.5	-3.4	0.200
4-2950	4-4070	0.475	58.0	17.4	-1.06	1.284	108.6	0.715	3.124	314.8	543.4	0.891	5.357	-0.34	0.234	81.6	256.2	-3.4	0.202
4-2950	4-4090	0.481	58.8	17.6	-1.07	1.284	109.0	0.717	3.130	313.9	544.1	0.886	5.374	-0.33	0.235	79.9	256.0	-3.3	0.204
4-2950	4-4110	0.488	59.6	17.8	-1.08	1.284	109.4	0.719	3.137	313.0	544.7	0.881	5.392	-0.32	0.235	78.2	255.8	-3.3	0.206
4-2950	4-4130	0.494	60.4	17.9	-1.09	1.285	109.9	0.721	3.144	312.1	545.3	0.876	5.412	-0.32	0.236	76.6	255.8	-3.3	0.209
4-2950	4-4150	0.501	61.2	18.1	-1.10	1.285	110.3	0.724	3.152	311.1	545.9	0.870	5.433	-0.31	0.237	75.0	255.8	-3.3	0.211
4-2950	4-4170	0.508	62.0	18.3	-1.11	1.285	110.7	0.726	3.160	310.1	546.5	0.864	5.455	-0.30	0.238	73.5	255.9	-3.3	0.214
4-2950	4-4190	0.516	62.8	18.4	-1.12	1.285	111.2	0.729	3.169	309.1	547.1	0.858	5.479	-0.30	0.239	72.0	256.1	-3.3	0.217
4-2950	4-4210	0.523	63.6	18.6	-1.13	1.286	111.6	0.732	3.178	308.1	547.6	0.852	5.504	-0.29	0.240	70.5	256.3	-3.3	0.220
4-2950	4-4230	0.531	64.4	18.8	-1.14	1.286	112.1	0.735	3.187	307.1	548.1	0.845	5.529	-0.29	0.241	69.1	256.7	-3.3	0.223
4-2950	4-4250	0.539	65.3	18.9	-1.15	1.287	112.6	0.738	3.197	306.0	548.6	0.839	5.556	-0.28	0.242	67.7	257.0	-3.3	0.225
4-2950	4-4270	0.547	66.1	19.1	-1.16	1.287	113.1	0.741	3.207	304.9	549.1	0.832	5.583	-0.28	0.244	66.4	257.5	-3.3	0.229
4-2950	4-4290	0.555	66.9	19.2	-1.17	1.287	113.6	0.744	3.218	303.9	549.6	0.824	5.611	-0.28	0.245	65.1	258.0	-3.3	0.232
4-2950	4-4310	0.564	67.7	19.4	-1.17	1.288	114.1	0.747	3.229	302.8	550.0	0.817	5.641	-0.27	0.247	63.8	258.5	-3.3	0.235
4-2950	4-4330	0.573	68.6	19.5	-1.18	1.288	114.6	0.750	3.240	301.6	550.4	0.809	5.670	-0.27	0.248	62.6	259.1	-3.3	0.238
4-2950	4-4350	0.582	6914	19.7	-1.19	1.289	115.2	0.754	3.251	300.5	550.8	0.801	5.701	-0.27	0.250	61.4	259.8	-3.3	0.241
4-2950	4-4370	0.591	70.2	19.8	-1.20	1.289	115.7	0.757	3.263	299.3	551.2	0.793	5.732	-0.27	0.251	60.2	260.5	-3.3	0.244
4-2950	4-4390	0.600	71.0	20.0	-1.21	1.289	116.3	0.760	3.274	298.2	551.6	0.785	5.764	-0.26	0.253	59.1	261.2	-3.3	0.248
4-2950	4-4410	0.610	71.9	20.1	-1.21	1.290	116.8	0.764	3.286	297.0	551.9	0.776	5.796	-0.26	0.255	58.0	262.0	-3.3	0.251
4-2950	4-4430	0.619	72.7	20.2	-1.22	1.290	117.4	0.767	3.298	295.8	552.3	0.767	5.830	-0.26	0.256	56.9	262.8	-3.3	0.254
4-2950	4-4450	0.629	73.5	20.3	-1.23	1.291	118.0	0.771	3.310	294.6	552.6	0.758	5.863	-0.26	0.258	55.8	263.7	-3.3	0.258
4-2950	4-4470	0.639	74.3	20.5	-1.23	1.291	118.6	0.775	3.323	293.3	552.9	0.748	5.897	-0.26	0.260	54.8	264.6	-3.3	0.261
4-2950	4-4490	0.650	75.1	20.6	-1.24	1.292	119.2	0.778	3.335	292.1	553.2	0.739	5.932	-0.26	0.262	53.8	265.5	-3.3	0.265
4-2950	4-4510	0.660	76.0	20.7	-1.25	1.292	119.8	0.782	3.348	290.8	553.4	0.729	5.967	-0.25	0.263	52.8	266.5	-3.3	0.268
4-2950	4-4530	0.671	76.8	20.8	-1.25	1.292	120.4	0.786	3.361	289.6	553.7	0.719	6.003	-0.25	0.265	51.8	267.4	-3.3	0.272
4-2950	4-4550	0.682	77.6	20.9	-1.26	1.293	121.0	0.790	3.374	288.3	553.9	0.709	6.039	-0.25	0.267	50.8	268.5	-3.3	0.275
4-2960	4-3320	0.615	56.4	16.6	-1.39	1.459	108.6	1.150-6.148		325.3	482.1	0.920	---	0.09	0.746	158.2	284.5	-2.9	0.696
4-2960	4-3340	0.580	55.4	16.2	-1.40	1.434	107.5	1.08411.104		326.3	484.9	0.928	---	0.10	0.696	156.8	284.8	-2.9	0.645
4-2960	4-3360	0.549	54.4	15.9	-1.41	1.413	106.6	1.02833.912		327.4	487.6	0.935	---	0.11	0.650	155.4	285.1	-2.9	0.599
4-2960	4-3380	0.523	53.5	15.5	-1.42	1.395	105.7	0.98046.867		328.3	490.3	0.942	---	0.12	0.609	153.9	285.3	-2.9	0.557
4-2960	4-3400	0.500	52.6	15.1	-1.43	1.379	104.9	0.93915.547		329.2	492.9	0.947	---	0.13	0.573	152.3	285.4	-2.9	0.520
4-2960	4-3420	0.480	51.7	14.7	-1.45	1.366	104.2	0.904	9.920	330.1	495.5	0.952	---	0.15	0.539	150.7	285.5	-2.9	0.486
4-2960	4-3440	0.462	50.9	14.3	-1.47	1.355	103.6	0.874	7.581	330.8	498.0	0.957	---	0.17	0.509	149.1	285.4	-2.9	0.455
4-2960	4-3460	0.448	50.2	13.9	-1.49	1.345	103.0	0.848	6.307	331.5	500.4	0.960	---	0.19	0.482	147.3	285.3	-2.8	0.427
4-2960	4-3480	0.435	4915	13.5	-1.53	1.336	102.6	0.825	5.512	332.2	502.8	0.964	---	0.23	0.457	145.5	285.1	-2.8	0.401
4-2960	4-3500	0.424	49.0	13.1	-1.58	1.329	102.1	0.806	4.972	332.7	505.0	0.966	---	0.28	0.434	143.7	284.8	-2.8	0.378
4-2960	4-3520	0.414	48.6	12.6	-1.66	1.323	101.8	0.789	4.585	333.2	507.2	0.969	---	0.35	0.413	141.7	284.4	-2.7	0.357
4-2960	4-3540	0.406	48.2	12.0	-1.80	1.317	101.5	0.774	4.295	333.6	509.3	0.970	---	0.49	0.394	139.8	283.9	-2.6	0.337
4-2960	4-3560	0.400	48.2	10.8	-2.12	1.312	101.2	0.761	4.073	333.9	511.3	0.972	---	0.81	0.377	137.7	283.4	-2.3	0.319
4-2960	4-3580	0.398	49.4	6.1	-3.62	1.308	101.0	0.750	3.897	334.2	513.3	0.973	---	2.31	0.362	135.7	282.6	-1.1	0.303
4-2960	4-3600	0.388	44.3	21.9	1.46	1.304	100.9	0.741	3.757	334.4	515.1	0.974	---	-2.77	0.347	133.5	281.9	-5.4	0.289
4-2960	4-3620	0.383	46.0	15.8	-0.44	1.301	100.8	0.732	3.644	334.5	516.9	0.975	---	-0.87	0.334	131.4	281.1	-3.8	0.275
4-2960	4-3640	0.380	46.3	14.6	-0.79	1.298	100.7	0.725	3.550	334.5	518.6	0.975	---	-0.52	0.323	129.1	280.1	-3.5	0.263
4-2960	4-3660	0.377	46.5	14.2	-0.94	1.296	100.6	0.719	3.473	334.5	520.3	0.975	---	-0.37	0.312	126.9	279.1	-3.4	0.252
4-2960	4-3680	0.375	46.7	13.9	-1.02	1.294	100.6	0.714	3.410	334.4	521.9	0.975	---	-0.29	0.302	124.6	278.0	-3.3	0.242
4-2960	4-3700	0.374	46.9	13.8	-1.07	1.292	100.6	0.710	3.356	334.3	523.4	0.975	---	-0.23	0.293	122.3	276.8	-3.3	0.233
4-2960	4-3720	0.373	47.2	13.7	-1.11	1.290	100.7	0.706	3.312	334.1	524.9	0.974	---	-0.20	0.286	120.0	275.5	-3.3	0.225
4-2960	4-3740	0.373	47.6	13.7	-1.14	1.289	100.8	0.703	3.275	333.8	526.3	0.974	---	-0.17	0.279	117.7	274.2	-3.3	0.219
4-2960	4-3760	0.373	48.0	13.8	-1.16	1.288	100.9	0.700	3.243	333.5	527.6	0.973	---	-0.15	0.272	115.4	272.9	-3.2	0.213
4-2960	4-3780	0.374	48.4	13.9	-1.17	1.287	101.0	0.698	3.218	333.2	528.9	0.972	---	-0.14	0.267	113.1	271.6	-3.2	0.207
4-2960	4-3800	0.375	48.9	14.0	-1.19	1.286	101.1	0.696	3.196	332.8	530.1	0.971	---	-0.12	0.262	110.8	270.2	-3.2	0.203
4-2960	4-3820	0.376	49.5	14.1	-1.20	1.286	101.3	0.695	3.179	332.3	531.3	0.969	---	-0.11	0.257	108.5	268.9	-3.2	0.199
4-2960	4-3840	0.378	50.1	14.2	-1.21	1.285	101.5	0.694	3.164	331.9	532.5	0.967	---	-0.11	0.254	106.3	267.6	-3.2	0.196
4-2960	4-3860	0.380	50.7	14.4	-1.21	1.285	101.7	0.694	3.153	331.3	533.6	0.966	---	-0.10	0.250	104.1	266.3	-3.2	0.194
4-2960	4-3880	0.382	51.4	14.6	-1.22	1.284	101.9	0.693	3.144	330.8	534.6	0.964	---	-0.09	0.248	101.9	265.1	-3.2	0.192
4-2960	4-3900	0.385	52.1	14.8	-1.23	1.284	102.2	0.694	3.138	330.2	535.6	0.962	---	-0.09	0.245	99.7	263.9	-3.2	0.191
4-2960	4-3920	0.388	52.8	15.0	-1.23	1.284	102.4	0.694	3.133	329.5	536.6	0.959	---	-0.08	0.243	97.6	262.9	-3.1	0.190
4-2960	4-3940	0.391	53.6	15.2	-1.24	1.284	102.7	0.694	3.130	328.9	537.5	0.957	---	-0.08	0.242	95.6	261.9	-3.1	0.190
4-2960	4-3960	0.395	54.4	15.4	-1.24	1.284	103.0	0.695	3.129	328.2	538.4	0.954	---	-0.07	0.240	93.5	261.0	-3.1	0.190

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2960	4-3980	0.399	55.2	15.6	-1.25	1.284	103.3	0.696	3.129	327.5	539.3	0.951	---	-0.07	0.239	91.6	260.1	-3.1	0.190
4-2960	4-4000	0.403	56.0	15.8	-1.25	1.284	103.6	0.697	3.130	326.7	540.2	0.948	5.312	-0.07	0.239	89.6	259.4	-3.1	0.191
4-2960	4-4020	0.407	56.9	16.0	-1.25	1.284	103.9	0.698	3.133	325.9	541.0	0.945	5.320	-0.06	0.238	87.8	258.8	-3.1	0.192
4-2960	4-4040	0.412	57.7	16.2	-1.26	1.284	104.3	0.700	3.136	325.1	541.7	0.941	5.331	-0.06	0.238	86.0	258.2	-3.1	0.193
4-2960	4-4060	0.417	58.6	16.5	-1.26	1.284	104.6	0.701	3.140	324.3	542.5	0.938	5.343	-0.06	0.238	84.2	257.8	-3.1	0.195
4-2960	4-4080	0.422	59.5	16.7	-1.26	1.284	105.0	0.703	3.145	323.4	543.2	0.934	5.357	-0.06	0.238	82.5	257.5	-3.1	0.197
4-2960	4-4100	0.427	60.4	16.9	-1.26	1.284	105.4	0.705	3.151	322.5	543.9	0.930	5.373	-0.06	0.239	80.8	257.2	-3.1	0.199
4-2960	4-4120	0.433	61.3	17.1	-1.27	1.285	105.8	0.707	3.158	321.6	544.6	0.926	5.390	-0.05	0.239	79.2	257.1	-3.1	0.201
4-2960	4-4140	0.439	62.2	17.4	-1.27	1.285	106.2	0.709	3.165	320.7	545.2	0.921	5.409	-0.05	0.240	77.6	257.0	-3.0	0.203
4-2960	4-4160	0.445	63.1	17.6	-1.27	1.285	106.6	0.711	3.173	319.8	545.9	0.917	5.429	-0.05	0.241	76.1	257.0	-3.0	0.205
4-2960	4-4180	0.451	64.1	17.8	-1.27	1.286	107.0	0.713	3.181	318.8	546.5	0.912	5.450	-0.05	0.242	74.6	257.1	-3.0	0.208
4-2960	4-4200	0.457	65.0	18.0	-1.27	1.286	107.4	0.716	3.190	317.8	547.0	0.907	5.473	-0.05	0.243	73.2	257.2	-3.0	0.210
4-2960	4-4220	0.464	65.9	18.2	-1.27	1.286	107.9	0.718	3.199	316.8	547.6	0.902	5.496	-0.05	0.244	71.8	257.4	-3.0	0.213
4-2960	4-4240	0.471	66.9	18.4	-1.28	1.287	108.3	0.721	3.208	315.8	548.1	0.896	5.521	-0.05	0.245	70.4	257.7	-3.0	0.215
4-2960	4-4260	0.478	67.8	18.6	-1.28	1.287	108.8	0.723	3.218	314.8	548.6	0.891	5.546	-0.05	0.246	69.1	258.1	-3.0	0.218
4-2960	4-4280	0.485	68.7	18.8	-1.28	1.287	109.3	0.726	3.228	313.7	549.1	0.885	5.572	-0.04	0.247	67.9	258.5	-3.1	0.221
4-2960	4-4300	0.493	69.7	18.9	-1.28	1.288	109.7	0.729	3.239	312.7	549.6	0.879	5.599	-0.04	0.249	66.6	259.0	-3.1	0.224
4-2960	4-4320	0.501	70.6	19.1	-1.28	1.288	110.2	0.732	3.250	311.6	550.1	0.872	5.627	-0.04	0.250	65.4	259.5	-3.1	0.227
4-2960	4-4340	0.509	71.5	19.3	-1.28	1.289	110.7	0.735	3.261	310.5	550.5	0.866	5.656	-0.04	0.252	64.2	260.1	-3.1	0.230
4-2960	4-4360	0.517	72.5	19.5	-1.28	1.289	111.2	0.737	3.272	309.4	550.9	0.859	5.685	-0.04	0.253	63.1	260.7	-3.1	0.233
4-2960	4-4380	0.525	73.4	19.6	-1.29	1.289	111.7	0.741	3.283	308.2	551.4	0.852	5.715	-0.04	0.255	62.0	261.4	-3.1	0.236
4-2960	4-4400	0.534	74.3	19.8	-1.29	1.290	112.3	0.744	3.295	307.1	551.8	0.845	5.745	-0.04	0.256	60.9	262.1	-3.1	0.239
4-2960	4-4420	0.542	75.2	19.9	-1.29	1.290	112.8	0.747	3.307	306.0	552.1	0.837	5.777	-0.04	0.258	59.8	262.8	-3.1	0.242
4-2960	4-4440	0.551	76.1	20.0	-1.29	1.291	113.3	0.750	3.319	304.8	552.5	0.830	5.808	-0.04	0.260	58.8	263.6	-3.1	0.245
4-2960	4-4460	0.560	77.1	20.2	-1.29	1.291	113.9	0.753	3.331	303.6	552.8	0.822	5.841	-0.04	0.261	57.8	264.4	-3.1	0.248
4-2960	4-4480	0.570	78.0	20.3	-1.29	1.292	114.4	0.757	3.343	302.4	553.2	0.813	5.873	-0.04	0.263	56.8	265.3	-3.1	0.251
4-2960	4-4500	0.579	78.9	20.4	-1.29	1.292	115.0	0.760	3.356	301.2	553.5	0.805	5.907	-0.04	0.265	55.8	266.2	-3.1	0.255
4-2960	4-4520	0.589	79.8	20.5	-1.29	1.292	115.6	0.764	3.368	300.0	553.8	0.796	5.940	-0.04	0.267	54.9	267.1	-3.1	0.258
4-2960	4-4540	0.598	80.7	20.6	-1.30	1.293	116.2	0.767	3.381	298.7	554.1	0.788	5.975	-0.04	0.268	53.9	268.1	-3.1	0.261
4-2960	4-4560	0.608	81.5	20.8	-1.30	1.293	116.8	0.771	3.394	297.5	554.3	0.779	6.009	-0.04	0.270	53.0	269.1	-3.1	0.264
4-2970	4-3290	0.642	58.9	18.0	-1.04	1.520	106.7	1.322-2.927		330.8	475.4	0.943	---	-0.31	0.858	160.1	284.9	-3.1	0.804
4-2970	4-3310	0.597	57.7	17.6	-1.02	1.485	105.5	1.226-4.208		332.0	478.4	0.951	---	-0.32	0.795	158.8	285.3	-3.1	0.741
4-2970	4-3330	0.558	56.4	17.3	-1.00	1.456	104.3	1.146-6.570		333.2	481.3	0.958	---	-0.34	0.739	157.5	285.6	-3.1	0.685
4-2970	4-3350	0.525	55.1	16.9	-0.98	1.431	103.3	1.07912.284		334.3	484.2	0.964	---	-0.36	0.689	156.2	285.9	-3.1	0.634
4-2970	4-3370	0.497	53.8	16.5	-0.96	1.411	102.4	1.02244.841		335.4	487.0	0.970	---	-0.38	0.644	154.7	286.2	-3.1	0.589
4-2970	4-3390	0.472	52.5	16.2	-0.94	1.393	101.6	0.97336.624		336.4	489.8	0.975	---	-0.40	0.604	153.2	286.3	-3.1	0.548
4-2970	4-3410	0.451	51.3	15.9	-0.91	1.378	100.9	0.93214.439		337.4	492.5	0.979	---	-0.43	0.568	151.7	286.4	-3.2	0.512
4-2970	4-3430	0.433	50.1	15.6	-0.87	1.365	100.2	0.897 9.536		338.3	495.1	0.983	---	-0.46	0.535	150.1	286.4	-3.2	0.478
4-2970	4-3450	0.418	49.0	15.4	-0.84	1.354	99.7	0.867 7.394		339.1	497.6	0.986	---	-0.49	0.506	148.4	286.4	-3.2	0.448
4-2970	4-3470	0.404	48.0	15.2	-0.79	1.344	99.2	0.841 6.202		339.9	500.1	0.988	---	-0.53	0.479	146.6	286.2	-3.3	0.420
4-2970	4-3490	0.392	47.1	15.0	-0.74	1.336	98.7	0.818 5.448		340.6	502.5	0.991	---	-0.58	0.454	144.8	286.0	-3.3	0.395
4-2970	4-3510	0.382	46.2	15.0	-0.68	1.328	98.4	0.799 4.931		341.2	504.8	0.992	---	-0.64	0.432	143.0	285.7	-3.4	0.372
4-2970	4-3530	0.374	45.5	15.0	-0.61	1.322	98.0	0.782 4.559		341.7	507.0	0.994	---	-0.71	0.411	141.1	285.3	-3.5	0.351
4-2970	4-3550	0.366	44.8	15.1	-0.51	1.317	97.8	0.767 4.279		342.1	509.1	0.995	---	-0.80	0.393	139.1	284.8	-3.6	0.332
4-2970	4-3570	0.360	44.2	15.3	-0.39	1.312	97.5	0.755 4.063		342.5	511.2	0.996	---	-0.92	0.376	137.1	284.2	-3.7	0.315
4-2970	4-3590	0.355	43.6	15.8	-0.23	1.308	97.4	0.744 3.893		342.7	513.1	0.997	---	-1.08	0.361	135.0	283.5	-3.9	0.299
4-2970	4-3610	0.350	43.1	16.5	-0.00	1.304	97.2	0.734 3.756		342.9	515.0	0.998	---	-1.30	0.347	132.9	282.8	-4.2	0.284
4-2970	4-3630	0.347	42.5	17.7	0.35	1.301	97.1	0.726 3.646		343.1	516.8	0.998	---	-1.65	0.334	130.7	281.9	-4.5	0.271
4-2970	4-3650	0.344	41.8	19.8	0.95	1.298	97.1	0.719 3.555		343.1	518.5	0.998	---	-2.25	0.323	128.5	280.9	-5.2	0.259
4-2970	4-3670	0.344	40.3	24.5	2.23	1.296	97.0	0.713 3.480		343.1	520.2	0.998	---	-3.53	0.312	126.3	279.8	-6.6	0.249
4-2970	4-3690	0.365	34.6	40.3	6.87	1.294	97.0	0.708 3.417		343.0	521.8	0.998	---	-8.17	0.303	124.1	278.5	-11.5	0.243
4-2970	4-3710	0.595	73.5	-44.8	-25.18	1.292	97.1	0.703 3.365		342.9	523.3	0.998	---	23.88	0.294	121.8	274.6	19.2	0.268
4-2970	4-3730	0.359	50.6	-5.3	-6.28	1.291	97.1	0.700 3.322		342.7	524.8	0.998	---	4.99	0.287	119.5	276.2	2.5	0.224
4-2970	4-3750	0.346	48.4	2.2	-4.06	1.290	97.2	0.696 3.286		342.4	526.2	0.997	---	2.78	0.280	117.2	275.0	0.1	0.216
4-2970	4-3770	0.342	47.9	5.3	-3.21	1.288	97.3	0.694 3.255		342.1	527.5	0.997	---	1.93	0.274	115.0	273.7	-0.8	0.210
4-2970	4-3790	0.341	47.9	7.1	-2.76	1.288	97.4	0.692 3.230		341.8	528.8	0.996	---	1.48	0.269	112.7	272.4	-1.3	0.205
4-2970	4-3810	0.340	48.1	8.2	-2.48	1.287	97.6	0.690 3.209		341.4	530.0	0.995	---	1.20	0.264	110.5	271.1	-1.6	0.200
4-2970	4-3830	0.341	48.5	9.1	-2.29	1.286	97.8	0.689 3.192		341.0	531.2	0.994	---	1.01	0.260	108.2	269.8	-1.8	0.197
4-2970	4-3850	0.342	49.1	9.8	-2.15	1.286	97.9	0.688 3.179		340.5	532.4	0.993	---	0.87	0.256	106.0	268.5	-2.0	0.194
4-2970	4-3870	0.343	49.7	10.4	-2.04	1.285	98.1	0.687 3.168		340.0	533.4	0.992	---	0.77	0.253	103.9	267.2	-2.1	0.191
4-2970	4-3890	0.344	50.3	11.0	-1.96	1.285	98.4	0.687 3.159		339.4	534.5	0.990	---	0.69	0.250	101.7	266.0	-2.2	0.189
4-2970	4-3910	0.346	51.1	11.5	-1.89	1.285	98.6	0.686 3.153		338.8	535.5	0.989	---	0.62	0.248	99.6	264.9	-2.2	0.188
4-2970	4-3930	0.348	51.9	11.9	-1.83	1.284	98.9	0.687 3.149		338.2	536.5	0.987	---	0.57	0.246	97.6	263.8	-2.3	0.187
4-2970	4-3950	0.351	52.7	12.4	-1.79	1.284	99.1	0.687 3.146		337.5	537.4	0.985	---	0.53	0.245	95.6	262.9	-2.4	0.187
4-2970	4-3970	0.354	53.6	12.8	-1.75	1.284	99.4	0.687 3.145		336.8	538.3	0.983	---	0.49	0.243	93.6	262.0	-2.4	0.187
4-2970	4-3990	0.357	54.5	13.2	-1.71	1.284	99.7	0.688 3.146		336.1	539.2	0.981	---	0.46	0.243	91.7	261.2	-2.4	0.187
4-2970	4-4010	0.360	55.4	13.6	-1.68	1.284	100.0	0.689 3.147		335.3	540.1	0.979	5.315	0.43	0.242	89.9	260.4	-2.5	0.188
4-2970	4-4030	0.363	56.4	13.9	-1.66	1.284	100.4	0.690 3.150		334.6	540.9	0.976	5.323	0.41	0.242	88.1	259.8	-2.5	0.189
4-2970	4-4050	0.367	57.4	14.3	-1.63	1.285	100.7	0.691 3.153		333.8	541.7	0.974	5.333	0.38	0.241	86.3	259.3	-2.5	0.190
4-2970	4-4070	0.371	58.4	14.7	-1.61	1.285	101.0	0.692 3.158		332.9	542.4	0.971	5.345	0.36	0.241	84.6	258.8	-2.6	0.191
4-2970	4-4090	0.375	59.4	15.0	-1.59	1.285	101.4	0.694 3.163		332.1	543.1	0.968	5.358	0.35	0.242	83.0	258.5	-2.6	0.193
4-2970	4-4110	0.380	60.4	15.3	-1.57	1.285	101.8	0.695 3.169		331.2	543.8	0.965	5.373	0.33	0.242	81.4	258.2	-2.6	0.194
4-2970	4-4130	0.384	61.5	15.7	-1.56	1.285	102.1	0.697 3.176		330.3	544.5	0.962	5.390	0.32	0.243	79.8	258.1	-2.6	0.196
4-2970	4-4150	0.389	62.6	16.0	-1.54	1.286	102.5	0.699 3.183		329.4	545.2	0.958	5.408	0.31	0.243	78.3	258.0	-2.6	0.198
4-2970	4-4170	0.394	63.6	16.3	-1.53	1.286	102.9	0.701 3.191		328.5	545.8	0.955	5.427	0.30	0.244	76.8	258.0	-2.6	0.200
4-2970	4-4190	0.400	64.7	16.6	-1.52	1.286	103.3	0.703 3.199		327.5	546.4	0.951	5.448	0.29	0.245	75.4	258.0	-2.7	0.203
4-2970	4-4210	0.405	65.8	16.9	-1.50	1.287	103.7	0.705 3.208		326.6	547.0	0.947	5.469	0.28	0.246	74.0	258.2	-2.7	0.205
4-2970	4-4230	0.411	66.9	17.1	-1.49	1.287	104.2	0.707 3.218		325.6	547.6	0.943	5.492	0.27	0.247	72.7	258.4	-2.7	0.207
4-2970	4-4250	0.417	67.9	17.4	-1.48	1.287	104.6	0.709 3.227		324.6	548.1	0.939	5.516	0.26	0.248	71.4	258.7	-2.7	0.210
4-2970	4-4270	0.423	69.0	17.7	-1.47	1.288	105.0	0.711 3.237		323.6	548.7	0.934	5.540	0.25	0.249	70.1	259.0	-2.7	0.212

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2970	4-4290	0.430	70.1	17.9	-1.46	1.288	105.5	0.714	3.247	322.5	549.2	0.929	5.565	0.25	0.251	68.9	259.4	-2.7	0.215
4-2970	4-4310	0.436	71.2	18.2	-1.45	1.289	106.0	0.716	3.258	321.5	549.7	0.924	5.591	0.24	0.252	67.7	259.9	-2.8	0.218
4-2970	4-4330	0.443	72.2	18.4	-1.45	1.289	106.4	0.719	3.269	320.4	550.1	0.919	5.618	0.24	0.254	66.6	260.4	-2.8	0.220
4-2970	4-4350	0.450	73.3	18.6	-1.44	1.289	106.9	0.721	3.280	319.3	550.6	0.914	5.646	0.23	0.255	65.5	260.9	-2.8	0.223
4-2970	4-4370	0.457	74.4	18.8	-1.43	1.290	107.4	0.724	3.291	318.2	551.1	0.908	5.674	0.23	0.256	64.4	261.5	-2.8	0.226
4-2970	4-4390	0.465	75.4	19.0	-1.42	1.290	107.9	0.727	3.303	317.1	551.5	0.902	5.703	0.22	0.258	63.3	262.2	-2.8	0.229
4-2970	4-4410	0.472	76.5	19.2	-1.41	1.291	108.4	0.730	3.314	316.0	551.9	0.896	5.732	0.22	0.260	62.3	262.9	-2.8	0.232
4-2970	4-4430	0.480	77.6	19.4	-1.41	1.291	108.9	0.732	3.326	314.9	552.3	0.890	5.762	0.21	0.261	61.3	263.6	-2.8	0.234
4-2970	4-4450	0.488	78.6	19.5	-1.40	1.291	109.4	0.735	3.338	313.7	552.7	0.884	5.792	0.21	0.263	60.3	264.4	-2.9	0.237
4-2970	4-4470	0.496	79.6	19.7	-1.39	1.292	109.9	0.738	3.350	312.6	553.0	0.877	5.823	0.21	0.264	59.3	265.2	-2.9	0.240
4-2970	4-4490	0.505	80.7	19.8	-1.39	1.292	110.5	0.741	3.363	311.4	553.4	0.870	5.855	0.20	0.266	58.4	266.0	-2.9	0.243
4-2970	4-4510	0.513	81.7	20.0	-1.38	1.293	111.0	0.744	3.375	310.2	553.7	0.863	5.887	0.20	0.268	57.5	266.9	-2.9	0.246
4-2970	4-4530	0.522	82.7	20.1	-1.38	1.293	111.5	0.747	3.387	309.0	554.1	0.856	5.919	0.20	0.270	56.6	267.8	-2.9	0.249
4-2970	4-4550	0.531	83.7	20.2	-1.37	1.294	112.1	0.751	3.400	307.8	554.4	0.848	5.952	0.20	0.271	55.7	268.7	-2.9	0.252
4-2970	4-4570	0.540	84.7	20.3	-1.37	1.294	112.7	0.754	3.413	306.6	554.7	0.840	5.985	0.19	0.273	54.8	269.7	-2.9	0.255
4-2980	4-3280	0.634	59.3	18.4	-0.86	1.554	103.2	1.432	-2.246	337.6	471.9	0.971	---	-0.55	0.917	160.7	285.5	-3.1	0.860
4-2980	4-3300	0.585	57.7	18.0	-0.84	1.513	102.0	1.314	-3.111	338.9	474.9	0.978	---	-0.56	0.846	159.5	285.9	-3.2	0.789
4-2980	4-3320	0.544	56.1	17.6	-0.82	1.480	100.9	1.217	-4.530	340.2	477.9	0.983	---	-0.58	0.784	158.2	286.3	-3.2	0.727
4-2980	4-3340	0.508	54.6	17.1	-0.79	1.451	99.8	1.136	-7.250	341.5	481.0	0.988	---	-0.60	0.729	156.9	286.6	-3.2	0.672
4-2980	4-3360	0.479	52.7	16.7	-0.76	1.427	98.9	1.069	14.443	342.7	483.9	0.992	---	-0.62	0.680	155.5	286.8	-3.2	0.622
4-2980	4-3380	0.453	51.1	16.3	-0.73	1.407	98.1	1.012	83.290	343.9	486.8	0.996	---	-0.65	0.636	154.1	287.0	-3.2	0.578
4-2980	4-3400	0.431	49.4	15.9	-0.69	1.390	97.4	0.964	27.712	345.0	489.7	0.999	---	-0.68	0.597	152.6	287.1	-3.3	0.538
4-2980	4-3420	0.413	47.9	15.6	-0.66	1.375	96.7	0.923	13.028	346.0	492.4	1.002	---	-0.71	0.561	151.0	287.2	-3.3	0.502
4-2980	4-3440	0.397	46.4	15.3	-0.62	1.363	96.1	0.888	8.986	347.0	495.1	1.004	---	-0.74	0.529	149.4	287.2	-3.4	0.470
4-2980	4-3460	0.383	45.0	15.0	-0.57	1.352	95.6	0.858	7.106	347.9	497.7	1.006	---	-0.78	0.500	147.7	287.1	-3.4	0.440
4-2980	4-3480	0.372	43.8	14.7	-0.52	1.343	95.1	0.833	6.027	348.7	500.2	1.007	---	-0.82	0.473	146.0	286.9	-3.5	0.413
4-2980	4-3500	0.362	42.6	14.6	-0.47	1.334	94.7	0.811	5.332	349.4	502.6	1.008	---	-0.87	0.449	144.2	286.6	-3.5	0.388
4-2980	4-3520	0.353	41.6	14.5	-0.41	1.327	94.4	0.792	4.851	350.0	504.9	1.009	---	-0.92	0.428	142.3	286.3	-3.6	0.366
4-2980	4-3540	0.346	40.7	14.4	-0.34	1.321	94.1	0.776	4.500	350.5	507.2	1.010	---	-0.99	0.408	140.4	285.9	-3.7	0.345
4-2980	4-3560	0.340	39.9	14.5	-0.26	1.316	93.9	0.761	4.236	351.0	509.3	1.011	---	-1.06	0.390	138.4	285.3	-3.8	0.326
4-2980	4-3580	0.335	39.2	14.6	-0.17	1.312	93.7	0.749	4.031	351.3	511.4	1.011	---	-1.15	0.373	136.4	284.7	-3.9	0.309
4-2980	4-3600	0.330	38.6	14.9	-0.06	1.308	93.6	0.739	3.869	351.6	513.3	1.012	---	-1.25	0.358	134.3	284.0	-4.1	0.294
4-2980	4-3620	0.326	38.1	15.3	0.07	1.304	93.4	0.729	3.738	351.8	515.2	1.012	---	-1.37	0.345	132.2	283.2	-4.2	0.280
4-2980	4-3640	0.323	37.7	15.8	0.22	1.301	93.4	0.721	3.632	352.0	517.0	1.012	---	-1.52	0.332	130.0	282.3	-4.4	0.267
4-2980	4-3660	0.320	37.4	16.5	0.41	1.299	93.3	0.715	3.545	352.0	518.7	1.012	---	-1.70	0.321	127.8	281.3	-4.7	0.255
4-2980	4-3680	0.318	37.0	17.5	0.66	1.296	93.3	0.709	3.474	352.0	520.4	1.012	---	-1.94	0.311	125.6	280.3	-5.0	0.245
4-2980	4-3700	0.317	36.7	18.8	0.98	1.294	93.3	0.704	3.414	351.9	522.0	1.012	---	-2.26	0.302	123.4	279.1	-5.4	0.236
4-2980	4-3720	0.316	36.4	20.6	1.43	1.293	93.4	0.699	3.364	351.8	523.5	1.012	---	-2.71	0.294	121.1	278.0	-6.0	0.227
4-2980	4-3740	0.316	35.7	23.3	2.11	1.291	93.5	0.696	3.322	351.6	524.9	1.012	---	-3.37	0.286	118.9	276.7	-6.9	0.220
4-2980	4-3760	0.319	34.6	27.7	3.21	1.290	93.5	0.692	3.288	351.3	526.3	1.011	---	-4.47	0.280	116.6	275.4	-8.3	0.214
4-2980	4-3780	0.330	31.9	35.8	5.37	1.289	93.7	0.690	3.259	351.0	527.6	1.011	---	-6.63	0.274	114.4	274.0	-10.9	0.211
4-2980	4-3800	0.385	21.3	54.7	10.48	1.288	93.8	0.688	3.235	350.7	528.9	1.011	---	-12.74	0.269	112.1	272.2	-17.9	0.215
4-2980	4-3820	1.394	229.0	48.6	74.40	1.287	93.8	0.686	3.215	350.5	530.1	1.011	---	-75.65	0.264	109.9	261.2	-35.5	0.449
4-2980	4-3840	0.437	60.1	-33.2	-15.61	1.287	94.2	0.684	3.199	349.7	531.3	1.010	---	14.37	0.260	107.7	269.6	13.9	0.211
4-2980	4-3860	0.353	52.2	-13.9	-8.32	1.286	94.4	0.683	3.186	349.3	532.4	1.009	---	7.09	0.257	105.6	268.8	5.9	0.196
4-2980	4-3880	0.334	50.2	-5.7	-5.93	1.286	94.6	0.683	3.176	348.7	533.5	1.008	---	4.70	0.254	103.5	267.7	3.0	0.191
4-2980	4-3900	0.328	49.7	-1.2	-4.74	1.286	94.8	0.682	3.169	348.2	534.6	1.007	---	3.52	0.252	101.4	266.6	1.5	0.188
4-2980	4-3920	0.325	49.8	1.7	-4.03	1.285	95.0	0.682	3.163	347.6	535.6	1.007	---	2.81	0.249	99.3	265.5	0.7	0.187
4-2980	4-3940	0.325	50.2	3.8	-3.56	1.285	95.3	0.682	3.159	346.9	536.5	1.006	---	2.35	0.248	97.3	264.5	0.1	0.186
4-2980	4-3960	0.325	50.8	5.4	-3.22	1.285	95.6	0.682	3.157	346.3	537.5	1.004	---	2.01	0.246	95.4	263.5	-0.4	0.185
4-2980	4-3980	0.326	51.5	6.6	-2.97	1.285	95.8	0.682	3.157	345.6	538.4	1.003	---	1.77	0.245	93.5	262.6	-0.7	0.185
4-2980	4-4000	0.327	52.4	7.7	-2.77	1.285	96.1	0.683	3.157	344.8	539.2	1.002	---	1.57	0.245	91.6	261.8	-1.0	0.185
4-2980	4-4020	0.329	53.3	8.7	-2.61	1.285	96.4	0.683	3.159	344.1	540.1	1.000	5.319	1.42	0.244	89.8	261.1	-1.2	0.186
4-2980	4-4040	0.331	54.3	9.5	-2.48	1.285	96.8	0.684	3.163	343.3	540.9	0.999	5.326	1.30	0.244	88.1	260.5	-1.3	0.186
4-2980	4-4060	0.333	55.4	10.3	-2.37	1.286	97.1	0.685	3.167	342.5	541.7	0.997	5.336	1.19	0.244	86.4	260.0	-1.5	0.187
4-2980	4-4080	0.336	56.5	11.0	-2.28	1.286	97.4	0.686	3.171	341.7	542.4	0.995	5.348	1.11	0.244	84.7	259.6	-1.6	0.189
4-2980	4-4100	0.339	57.6	11.6	-2.20	1.286	97.8	0.687	3.177	340.8	543.2	0.993	5.361	1.03	0.244	83.1	259.3	-1.7	0.190
4-2980	4-4120	0.342	58.7	12.2	-2.13	1.286	98.2	0.689	3.183	340.0	543.9	0.991	5.376	0.97	0.244	81.6	259.0	-1.8	0.192
4-2980	4-4140	0.346	59.9	12.8	-2.07	1.286	98.5	0.690	3.190	339.1	544.5	0.989	5.392	0.91	0.245	80.1	258.9	-1.9	0.193
4-2980	4-4160	0.349	61.1	13.3	-2.01	1.287	98.9	0.692	3.198	338.2	545.2	0.986	5.410	0.86	0.246	78.6	258.8	-1.9	0.195
4-2980	4-4180	0.353	62.3	13.8	-1.96	1.287	99.3	0.693	3.206	337.2	545.8	0.984	5.428	0.82	0.247	77.2	258.8	-2.0	0.197
4-2980	4-4200	0.357	63.6	14.3	-1.92	1.287	99.7	0.695	3.215	336.3	546.4	0.981	5.448	0.78	0.248	75.9	258.9	-2.1	0.199
4-2980	4-4220	0.362	64.8	14.7	-1.88	1.288	100.1	0.697	3.224	335.3	547.0	0.978	5.469	0.74	0.249	74.5	259.0	-2.1	0.201
4-2980	4-4240	0.366	66.1	15.2	-1.84	1.288	100.5	0.698	3.233	334.4	547.6	0.975	5.491	0.71	0.250	73.3	259.2	-2.2	0.204
4-2980	4-4260	0.371	67.3	15.6	-1.81	1.288	100.9	0.700	3.243	333.4	548.2	0.972	5.514	0.69	0.251	72.0	259.5	-2.2	0.206
4-2980	4-4280	0.376	68.6	15.9	-1.78	1.289	101.4	0.702	3.253	332.4	548.7	0.968	5.538	0.66	0.252	70.8	259.8	-2.3	0.208
4-2980	4-4300	0.381	69.8	16.3	-1.75	1.289	101.8	0.704	3.263	331.3	549.2	0.965	5.562	0.64	0.253	69.7	260.2	-2.3	0.211
4-2980	4-4320	0.387	71.1	16.6	-1.72	1.290	102.2	0.707	3.274	330.3	549.7	0.961	5.587	0.62	0.255	68.5	260.7	-2.3	0.213
4-2980	4-4340	0.393	72.3	17.0	-1.70	1.290	102.7	0.709	3.285	329.3	550.2	0.957	5.613	0.60	0.256	67.4	261.2	-2.4	0.216
4-2980	4-4360	0.399	73.6	17.3	-1.67	1.290	103.1	0.711	3.296	328.2	550.7	0.953	5.640	0.58	0.258	66.3	261.7	-2.4	0.218
4-2980	4-4380	0.405	74.8	17.6	-1.65	1.291	103.6	0.713	3.308	327.1	551.2	0.948	5.667	0.56	0.259	65.3	262.3	-2.4	0.221
4-2980	4-4400	0.411	76.0	17.8	-1.63	1.291	104.1	0.716	3.319	326.0	551.6	0.944	5.695	0.55	0.261	64.3	262.9	-2.5	0.223
4-2980	4-4420	0.418	77.3	18.1	-1.61	1.292	104.6	0.718	3.331	324.9	552.0	0.939	5.723	0.53	0.262	63.3	263.6	-2.5	0.226
4-2980	4-4440	0.424	78.5	18.3	-1.59	1.292	105.1	0.721	3.343	323.8	552.4	0.934	5.752	0.52	0.264	62.3	264.3	-2.5	0.229
4-2980	4-4460	0.431	79.7	18.6	-1.57	1.292	105.6	0.723	3.355	322.7	552.8	0.929	5.782	0.51	0.266	61.4	265.1	-2.5	0.231
4-2980	4-4480	0.439	80.9	18.8	-1.55	1.293	106.1	0.726	3.367	321.5	553.2	0.923	5.811	0.50	0.267	60.5	265.9	-2.6	0.234
4-2980	4-4500	0.446	82.1	19.0	-1.54	1.293	106.6	0.728	3.380	320.4	553.6	0.918	5.842	0.49	0.269	59.6	266.7	-2.6	0.237
4-2980	4-4520	0.454	83.3	19.1	-1.52	1.294	107.1	0.731	3.392	319.2	554.0	0.912	5.873	0.48	0.270	58.7	267.6	-2.6	0.239
4-2980	4-4540	0.461	84.4	19.3	-1.51	1.294	107.6	0.734	3.405	318.1	554.3	0.906	5.904	0.47	0.272	57.9	268.5	-2.6	0.242
4-2980	4-4560	0.469	85.6	19.5	-1.49	1.295	108.1	0.737	3.418	316.9	554.7	0.900	5.936	0.46	0.274	57.0	269.4	-2.6	0.245

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

BEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2980	4-4580	0.477	86.7	19.6	-1.48	1.295	108.7	0.740	3.430	315.7	556.0	0.893	5.968	0.46	0.276	56.2	270.3	-2.6	0.248
4-2990	4-3270	0.637	58.4	18.3	-0.77	1.592	99.3	1.560	-1.774	344.8	468.6	0.994	---	-0.71	0.979	161.2	286.0	-3.2	0.919
4-2990	4-3290	0.584	56.4	17.9	-0.74	1.545	98.1	1.415	-2.405	346.2	471.7	0.998	---	-0.73	0.900	160.1	286.4	-3.2	0.841
4-2990	4-3310	0.539	54.3	17.4	-0.71	1.506	97.0	1.297	-3.372	347.6	474.9	1.002	---	-0.74	0.831	158.9	286.7	-3.2	0.772
4-2990	4-3330	0.502	52.2	16.9	-0.68	1.473	96.0	1.201	-5.008	349.0	478.0	1.005	---	-0.76	0.770	157.7	287.1	-3.2	0.711
4-2990	4-3350	0.471	50.1	16.3	-0.65	1.446	95.1	1.121	-8.337	350.4	481.1	1.008	---	-0.78	0.717	156.3	287.3	-3.3	0.657
4-2990	4-3370	0.445	48.0	15.8	-0.62	1.423	94.3	1.054	18.571	351.7	484.2	1.010	---	-0.80	0.668	155.0	287.5	-3.3	0.609
4-2990	4-3390	0.423	46.0	15.3	-0.59	1.403	93.5	0.999	02.845	352.9	487.2	1.011	---	-0.83	0.625	153.5	287.6	-3.3	0.566
4-2990	4-3410	0.405	44.0	14.8	-0.55	1.387	92.9	0.952	21.007	354.1	490.1	1.013	---	-0.85	0.587	152.0	287.7	-3.4	0.527
4-2990	4-3430	0.389	42.2	14.4	-0.51	1.372	92.3	0.912	11.527	355.2	492.9	1.013	---	-0.88	0.552	150.4	287.7	-3.4	0.492
4-2990	4-3450	0.376	40.5	13.9	-0.47	1.360	91.8	0.878	8.334	356.2	495.6	1.014	---	-0.91	0.520	148.8	287.6	-3.5	0.460
4-2990	4-3470	0.365	38.9	13.6	-0.43	1.350	91.3	0.850	6.742	357.1	498.3	1.015	---	-0.94	0.492	147.1	287.5	-3.5	0.431
4-2990	4-3490	0.356	37.5	13.3	-0.38	1.341	90.9	0.825	5.795	358.0	500.8	1.015	---	-0.98	0.466	145.3	287.3	-3.6	0.404
4-2990	4-3510	0.348	36.2	13.0	-0.33	1.333	90.6	0.804	5.172	358.7	503.2	1.015	---	-1.02	0.443	143.5	287.0	-3.6	0.380
4-2990	4-3530	0.341	35.1	12.9	-0.28	1.326	90.3	0.786	4.734	359.3	505.5	1.015	---	-1.07	0.421	141.6	286.6	-3.7	0.358
4-2990	4-3550	0.336	34.1	12.8	-0.22	1.320	90.1	0.770	4.412	359.8	507.8	1.015	---	-1.12	0.402	139.7	286.1	-3.8	0.338
4-2990	4-3570	0.331	33.3	12.7	-0.15	1.315	89.9	0.756	4.167	0.3	149.9	---	---	-1.17	0.384	137.7	285.5	-3.9	0.320
4-2990	4-3590	0.326	32.6	12.8	-0.08	1.311	89.7	0.745	3.977	0.6	151.9	---	---	-1.23	0.368	135.6	284.8	-4.0	0.304
4-2990	4-3610	0.323	32.0	12.9	-0.00	1.307	89.6	0.735	3.825	0.9	153.9	---	---	-1.30	0.354	133.5	284.1	-4.1	0.289
4-2990	4-3630	0.319	31.5	13.2	0.09	1.304	89.5	0.726	3.703	1.1	155.8	---	---	-1.38	0.341	131.4	283.2	-4.3	0.275
4-2990	4-3650	0.317	31.2	13.5	0.19	1.301	89.5	0.718	3.604	1.2	157.5	---	---	-1.48	0.329	129.2	282.3	-4.4	0.263
4-2990	4-3670	0.314	31.0	13.9	0.30	1.299	89.5	0.712	3.522	1.3	159.2	---	---	-1.58	0.318	127.0	281.3	-4.6	0.251
4-2990	4-3690	0.312	30.8	14.4	0.44	1.296	89.5	0.706	3.455	1.2	160.9	---	---	-1.70	0.308	124.8	280.2	-4.8	0.241
4-2990	4-3710	0.310	30.7	15.1	0.59	1.295	89.5	0.701	3.399	1.1	162.4	---	---	-1.85	0.299	122.6	279.1	-5.0	0.232
4-2990	4-3730	0.309	30.7	15.9	0.77	1.293	89.6	0.697	3.352	1.0	163.9	---	---	-2.02	0.291	120.3	277.9	-5.3	0.224
4-2990	4-3750	0.308	30.8	16.9	0.99	1.292	89.7	0.694	3.313	0.7	165.3	---	---	-2.23	0.284	118.1	276.7	-5.6	0.217
4-2990	4-3770	0.307	30.8	18.2	1.26	1.291	89.8	0.691	3.281	0.5	166.7	---	---	-2.49	0.278	115.8	275.4	-6.0	0.211
4-2990	4-3790	0.306	30.9	19.7	1.60	1.290	90.0	0.688	3.254	0.1	168.0	---	---	-2.82	0.273	113.6	274.1	-6.5	0.206
4-2990	4-3810	0.306	30.8	21.7	2.04	1.289	90.1	0.686	3.232	359.7	529.3	1.015	---	-3.26	0.268	111.4	272.8	-7.1	0.201
4-2990	4-3830	0.307	30.6	24.3	2.64	1.288	90.3	0.684	3.213	359.3	530.5	1.015	---	-3.85	0.264	109.2	271.5	-7.9	0.197
4-2990	4-3850	0.310	30.0	27.9	3.51	1.287	90.5	0.683	3.199	358.9	531.6	1.015	---	-4.71	0.260	107.0	270.2	-9.1	0.195
4-2990	4-3870	0.317	28.6	33.3	4.87	1.287	90.7	0.682	3.187	358.3	532.7	1.015	---	-6.06	0.257	104.9	268.9	-10.9	0.193
4-2990	4-3890	0.334	25.1	42.1	7.30	1.287	90.9	0.681	3.178	357.8	533.8	1.015	---	-8.49	0.254	102.8	267.6	-13.9	0.194
4-2990	4-3910	0.394	13.1	57.9	12.91	1.286	91.1	0.680	3.171	357.3	534.8	1.015	---	-14.09	0.252	100.8	266.3	-20.3	0.203
4-2990	4-3930	0.775	274.2	69.7	37.01	1.286	91.3	0.680	3.167	356.8	535.8	1.015	---	-38.18	0.250	98.8	264.1	-35.8	0.282
4-2990	4-3950	0.759	86.1	-62.1	-36.03	1.286	91.7	0.680	3.164	355.7	536.7	1.014	---	34.87	0.248	96.8	264.2	28.6	0.268
4-2990	4-3970	0.418	58.5	-32.8	-14.75	1.286	92.0	0.679	3.163	355.1	537.7	1.014	---	13.60	0.247	94.9	263.8	13.8	0.199
4-2990	4-3990	0.356	53.8	-18.5	-9.48	1.286	92.2	0.680	3.163	354.5	538.6	1.013	---	8.34	0.246	93.1	263.0	7.8	0.189
4-2990	4-4010	0.335	52.3	-10.5	-7.14	1.286	92.5	0.680	3.164	353.7	539.4	1.013	---	6.01	0.245	91.3	262.2	4.9	0.187
4-2990	4-4030	0.326	52.0	-5.5	-5.83	1.286	92.8	0.680	3.167	353.0	540.2	1.012	5.322	4.70	0.245	89.5	261.6	3.2	0.186
4-2990	4-4050	0.321	52.3	-2.0	-4.98	1.286	93.2	0.681	3.171	352.2	541.0	1.011	5.330	3.86	0.245	87.8	261.0	2.1	0.186
4-2990	4-4070	0.319	52.9	0.6	-4.39	1.287	93.5	0.682	3.175	351.4	541.8	1.011	5.340	3.28	0.245	86.2	260.5	1.3	0.187
4-2990	4-4090	0.319	53.7	2.6	-3.96	1.287	93.8	0.683	3.181	350.6	542.5	1.010	5.351	2.86	0.245	84.6	260.1	0.7	0.188
4-2990	4-4110	0.319	54.7	4.3	-3.62	1.287	94.2	0.684	3.187	349.7	543.3	1.009	5.365	2.53	0.246	83.0	259.8	0.2	0.189
4-2990	4-4130	0.320	55.7	5.8	-3.36	1.287	94.5	0.685	3.193	348.8	544.0	1.007	5.380	2.27	0.246	81.5	259.6	-0.1	0.190
4-2990	4-4150	0.321	56.9	7.0	-3.14	1.288	94.9	0.686	3.201	347.9	544.6	1.006	5.396	2.06	0.247	80.1	259.5	-0.4	0.192
4-2990	4-4170	0.323	58.1	8.1	-2.96	1.288	95.3	0.687	3.209	347.0	545.3	1.005	5.413	1.89	0.248	78.7	259.4	-0.6	0.193
4-2990	4-4190	0.325	59.4	9.1	-2.81	1.288	95.7	0.688	3.217	346.1	545.9	1.003	5.432	1.75	0.248	77.3	259.4	-0.8	0.195
4-2990	4-4210	0.327	60.7	10.0	-2.68	1.289	96.0	0.690	3.226	345.2	546.5	1.001	5.451	1.63	0.249	76.0	259.5	-1.0	0.197
4-2990	4-4230	0.330	62.0	10.8	-2.56	1.289	96.4	0.691	3.236	344.2	547.1	1.000	5.472	1.52	0.251	74.7	259.7	-1.2	0.199
4-2990	4-4250	0.333	63.4	11.5	-2.47	1.289	96.9	0.693	3.245	343.2	547.7	0.998	5.493	1.43	0.252	73.5	259.9	-1.3	0.201
4-2990	4-4270	0.336	64.8	12.2	-2.38	1.290	97.3	0.694	3.255	342.2	548.3	0.995	5.516	1.35	0.253	72.3	260.2	-1.4	0.203
4-2990	4-4290	0.340	66.2	12.9	-2.30	1.290	97.7	0.696	3.266	341.2	548.8	0.993	5.539	1.28	0.254	71.2	260.5	-1.5	0.205
4-2990	4-4310	0.344	67.6	13.5	-2.23	1.290	98.1	0.698	3.277	340.2	549.3	0.991	5.563	1.22	0.256	70.0	260.9	-1.6	0.208
4-2990	4-4330	0.348	69.1	14.0	-2.16	1.291	98.5	0.700	3.288	339.2	549.8	0.988	5.587	1.16	0.257	69.0	261.4	-1.7	0.210
4-2990	4-4350	0.352	70.5	14.5	-2.10	1.291	99.0	0.701	3.299	338.1	550.3	0.985	5.612	1.11	0.258	67.9	261.9	-1.8	0.212
4-2990	4-4370	0.357	71.9	15.0	-2.05	1.292	99.4	0.703	3.310	337.1	550.8	0.982	5.638	1.07	0.260	66.9	262.4	-1.9	0.215
4-2990	4-4390	0.361	73.4	15.5	-2.00	1.292	99.9	0.705	3.322	336.0	551.3	0.979	5.665	1.03	0.261	65.9	263.0	-1.9	0.217
4-2990	4-4410	0.366	74.8	15.9	-1.96	1.292	100.3	0.707	3.334	334.9	551.7	0.976	5.692	0.99	0.263	64.9	263.6	-2.0	0.219
4-2990	4-4430	0.372	76.2	16.3	-1.91	1.293	100.8	0.709	3.346	333.9	552.2	0.972	5.719	0.96	0.265	64.0	264.3	-2.0	0.222
4-2990	4-4450	0.377	77.7	16.6	-1.87	1.293	101.3	0.712	3.358	332.7	552.6	0.968	5.747	0.92	0.266	63.1	265.0	-2.1	0.224
4-2990	4-4470	0.383	79.1	17.0	-1.84	1.294	101.8	0.714	3.370	331.6	553.0	0.964	5.776	0.90	0.268	62.2	265.8	-2.1	0.227
4-2990	4-4490	0.389	80.5	17.3	-1.80	1.294	102.3	0.716	3.382	330.5	553.4	0.960	5.805	0.87	0.269	61.3	266.6	-2.2	0.229
4-2990	4-4510	0.395	81.9	17.6	-1.77	1.294	102.7	0.718	3.395	329.4	553.8	0.956	5.834	0.85	0.271	60.5	267.4	-2.2	0.232
4-2990	4-4530	0.401	83.3	17.8	-1.74	1.295	103.2	0.721	3.408	328.2	554.2	0.951	5.864	0.82	0.273	59.6	268.2	-2.2	0.234
4-2990	4-4550	0.408	84.6	18.1	-1.71	1.295	103.7	0.723	3.420	327.1	554.5	0.947	5.894	0.80	0.274	58.8	269.1	-2.3	0.237
4-2990	4-4570	0.415	86.0	18.3	-1.68	1.296	104.3	0.726	3.433	325.9	554.9	0.942	5.925	0.79	0.276	58.0	270.0	-2.3	0.239
4-2990	4-4590	0.422	87.3	18.5	-1.65	1.296	104.8	0.728	3.446	324.7	555.2	0.937	5.956	0.77	0.278	57.3	270.9	-2.3	0.242
4-3000	4-3280	0.598	53.7	17.4	-0.68	1.580	93.7	1.528	-1.914	353.8	468.9	1.010	---	-0.86	0.958	160.8	286.7	-3.2	0.897
4-3000	4-3300	0.550	51.3	16.8	-0.65	1.534	92.7	1.386	-2.622	355.4	472.2	1.012	---	-0.87	0.881	159.6	287.1	-3.3	0.820
4-3000	4-3320	0.511	48.7	16.2	-0.62	1.497	91.7	1.271	-3.739	356.9	475.5	1.013	---	-0.89	0.813	158.4	287.3	-3.3	0.753
4-3000	4-3340	0.479	46.2	15.5	-0.59	1.466	90.9	1.177	-5.722	358.4	478.7	1.014	---	-0.90	0.754	157.2	287.6	-3.3	0.694
4-3000	4-3360	0.453	43.8	14.8	-0.56	1.439	90.1	1.100	10.148	359.9	481.9	1.014	---	-0.92	0.701	155.9	287.8	-3.3	0.641
4-3000	4-3380	0.432	41.4	14.2	-0.53	1.417	89.4	1.036	28.296	1.3	125.0	---	---	-0.94	0.654	154.5	287.9	-3.4	0.594
4-3000	4-3400	0.414	39.1	13.6	-0.49	1.398	88.7	0.982	57.591	2.6	128.1	---	---	-0.96	0.612	153.0	288.0	-3.4	0.552
4-3000	4-3420	0.399	37.0	13.0	-0.46	1.383	88.2	0.938	16.211	3.8	131.1	---	---	-0.98	0.574	151.5	288.0	-3.4	0.514
4-3000	4-3440	0.387	35.1	12.4	-0.42	1.369	87.7	0.900	10.089	4.9	133.9	---	---	-1.00	0.540	149.9	287.9	-3.5	0.480
4-3000	4-3460	0.377	33.3	11.9	-0.38	1.357	87.2	0.868	7.641	6.0	136.7	---	---	-1.03	0.510	148.2	287.8	-3.5	0.449
4-3000	4-3480	0.369	31.7	11.5	-0.34	1.347	86.8	0.840	6.332	6.9	139.3	---	---	-1.05	0.482	146.5	287.6	-3.6	0.421
4-3000	4-3500	0.361	30.3	11.2	-0.29	1.339	86.5	0.817	5.523	7.8	141.9	---	---	-1.08	0.457	144.7	287.3	-3.7	0.395

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3000	4-3520	0.355	29.0	10.9	-0.25	1.331	86.2	0.797	4.978	8.5	144.3	---	---	-1.12	0.434	142.9	286.9	-3.7	0.372
4-3000	4-3540	0.350	28.0	10.7	-0.20	1.325	86.0	0.780	4.589	9.1	146.6	---	---	-1.15	0.413	140.9	286.5	-3.8	0.351
4-3000	4-3560	0.346	27.1	10.6	-0.15	1.319	85.8	0.766	4.299	9.6	148.8	---	---	-1.19	0.394	139.0	285.9	-3.9	0.331
4-3000	4-3580	0.342	26.3	10.5	-0.09	1.314	85.7	0.753	4.077	10.0	150.9	---	---	-1.23	0.377	136.9	285.3	-4.0	0.314
4-3000	4-3600	0.339	25.7	10.5	-0.03	1.310	85.6	0.742	3.904	10.4	152.9	---	---	-1.28	0.361	134.9	284.6	-4.1	0.298
4-3000	4-3620	0.335	25.2	10.6	0.03	1.307	85.5	0.733	3.765	10.6	154.9	---	---	-1.33	0.347	132.8	283.7	-4.2	0.283
4-3000	4-3640	0.333	24.8	10.7	0.10	1.304	85.5	0.725	3.653	10.8	156.7	---	---	-1.39	0.335	130.6	282.9	-4.3	0.270
4-3000	4-3660	0.330	24.6	11.0	0.18	1.301	85.5	0.717	3.562	10.8	158.4	---	---	-1.45	0.323	128.4	281.9	-4.4	0.258
4-3000	4-3680	0.328	24.5	11.3	0.26	1.299	85.5	0.711	3.486	10.8	160.1	---	---	-1.52	0.313	126.2	280.8	-4.6	0.248
4-3000	4-3700	0.326	24.4	11.6	0.35	1.297	85.5	0.706	3.424	10.8	161.7	---	---	-1.60	0.303	124.0	279.7	-4.7	0.238
4-3000	4-3720	0.323	24.5	12.1	0.45	1.295	85.6	0.702	3.373	10.6	163.2	---	---	-1.69	0.295	121.7	278.6	-4.9	0.229
4-3000	4-3740	0.322	24.6	12.6	0.56	1.293	85.7	0.698	3.330	10.4	164.6	---	---	-1.79	0.288	119.5	277.4	-5.1	0.222
4-3000	4-3760	0.320	24.8	13.3	0.69	1.292	85.8	0.694	3.294	10.2	166.0	---	---	-1.90	0.281	117.2	276.1	-5.3	0.215
4-3000	4-3780	0.318	25.0	14.0	0.83	1.291	86.0	0.691	3.264	9.9	167.3	---	---	-2.03	0.275	115.0	274.8	-5.5	0.209
4-3000	4-3800	0.317	25.3	14.8	0.99	1.290	86.1	0.689	3.240	9.5	168.6	---	---	-2.18	0.270	112.7	273.6	-5.7	0.204
4-3000	4-3820	0.315	25.7	15.8	1.18	1.289	86.3	0.687	3.220	9.1	169.8	---	---	-2.36	0.265	110.5	272.3	-6.0	0.200
4-3000	4-3840	0.314	26.0	16.9	1.40	1.289	86.5	0.685	3.204	8.6	171.0	---	---	-2.57	0.261	108.3	271.0	-6.3	0.196
4-3000	4-3860	0.313	26.4	18.3	1.67	1.288	86.7	0.684	3.191	8.1	172.1	---	---	-2.82	0.258	106.2	269.8	-6.7	0.193
4-3000	4-3880	0.312	26.7	19.8	1.99	1.288	86.9	0.682	3.181	7.6	173.2	---	---	-3.13	0.255	104.1	268.6	-7.1	0.190
4-3000	4-3900	0.312	27.0	21.7	2.39	1.288	87.2	0.681	3.173	7.0	174.2	---	---	-3.52	0.252	102.0	267.4	-7.7	0.189
4-3000	4-3920	0.312	27.2	24.1	2.90	1.287	87.4	0.681	3.168	6.4	175.2	---	---	-4.02	0.250	100.0	266.4	-8.4	0.187
4-3000	4-3940	0.314	27.1	27.0	3.58	1.287	87.7	0.680	3.164	5.8	176.2	---	---	-4.69	0.249	98.0	265.3	-9.3	0.187
4-3000	4-3960	0.318	26.6	31.0	4.52	1.287	87.9	0.680	3.163	5.1	177.1	---	---	-5.62	0.247	96.1	264.4	-10.5	0.187
4-3000	4-3980	0.326	25.2	36.4	5.93	1.287	88.2	0.680	3.162	4.4	178.0	---	---	-7.02	0.246	94.2	263.6	-12.3	0.188
4-3000	4-4000	0.344	21.7	44.5	8.27	1.287	88.5	0.680	3.164	3.7	178.9	---	---	-9.35	0.246	92.4	262.8	-15.1	0.191
4-3000	4-4020	0.394	11.4	57.0	12.85	1.287	88.8	0.680	3.166	2.9	179.7	---	---	-13.92	0.245	90.6	262.2	-20.2	0.200
4-3000	4-4040	0.582	319.7	71.2	25.52	1.287	89.1	0.680	3.169	2.3	180.5	---	5.325	-26.58	0.245	88.9	262.2	-30.6	0.237
4-3000	4-4060	1.608	192.1	-65.5	-88.98	1.288	89.8	0.681	3.174	0.5	181.3	---	5.334	87.93	0.245	87.3	266.4	27.2	0.486
4-3000	4-4080	0.604	70.2	-54.2	-26.87	1.288	89.9	0.681	3.179	0.2	182.0	---	5.344	25.83	0.245	85.7	262.2	23.9	0.235
4-3000	4-4100	0.418	58.9	-33.0	-14.77	1.288	90.2	0.682	3.185	359.5	542.8	1.014	5.356	13.74	0.246	84.1	260.9	13.7	0.202
4-3000	4-4120	0.364	55.8	-20.9	-10.32	1.288	90.5	0.682	3.192	358.7	543.5	1.014	5.370	9.30	0.246	82.6	260.4	8.6	0.195
4-3000	4-4140	0.341	54.9	-13.3	-8.03	1.289	90.9	0.683	3.199	357.8	544.2	1.013	5.385	7.03	0.247	81.2	260.1	5.8	0.194
4-3000	4-4160	0.330	54.9	-8.1	-6.64	1.289	91.3	0.684	3.207	356.9	544.8	1.013	5.401	5.65	0.248	79.8	260.0	4.1	0.194
4-3000	4-4180	0.324	55.4	-4.4	-5.71	1.289	91.6	0.685	3.216	356.0	545.5	1.013	5.419	4.73	0.249	78.4	259.9	2.9	0.194
4-3000	4-4200	0.320	56.2	-1.4	-5.04	1.290	92.0	0.686	3.225	355.0	546.1	1.012	5.437	4.07	0.250	77.1	259.9	2.0	0.196
4-3000	4-4220	0.318	57.2	0.9	-4.53	1.290	92.4	0.687	3.234	354.1	546.7	1.012	5.457	3.57	0.251	75.8	260.0	1.4	0.197
4-3000	4-4240	0.318	58.4	2.9	-4.14	1.290	92.8	0.688	3.244	353.1	547.3	1.011	5.477	3.19	0.252	74.6	260.2	0.9	0.199
4-3000	4-4260	0.318	59.6	4.5	-3.82	1.291	93.2	0.690	3.254	352.2	547.8	1.010	5.498	2.88	0.253	73.4	260.4	0.5	0.201
4-3000	4-4280	0.318	61.0	5.9	-3.56	1.291	93.6	0.691	3.265	351.2	548.4	1.009	5.520	2.69	0.254	72.3	260.7	0.1	0.202
4-3000	4-4300	0.319	62.4	7.2	-3.34	1.291	94.0	0.692	3.275	350.2	548.9	1.008	5.543	2.42	0.256	71.2	261.1	-0.2	0.204
4-3000	4-4320	0.321	63.9	8.3	-3.15	1.292	94.4	0.694	3.286	349.1	549.5	1.006	5.567	2.24	0.257	70.1	261.5	-0.4	0.206
4-3000	4-4340	0.323	65.4	9.3	-2.99	1.292	94.9	0.695	3.298	348.1	550.0	1.005	5.591	2.09	0.259	69.1	262.0	-0.6	0.209
4-3000	4-4360	0.325	66.9	10.3	-2.85	1.293	95.3	0.697	3.309	347.1	550.5	1.003	5.615	1.96	0.260	68.1	262.5	-0.8	0.211
4-3000	4-4380	0.328	68.5	11.1	-2.72	1.293	95.7	0.698	3.321	346.0	551.0	1.001	5.641	1.85	0.262	67.1	263.0	-1.0	0.213
4-3000	4-4400	0.331	70.1	11.9	-2.61	1.293	96.2	0.700	3.333	345.0	551.4	0.999	5.667	1.75	0.263	66.2	263.6	-1.1	0.215
4-3000	4-4420	0.334	71.7	12.6	-2.51	1.294	96.6	0.702	3.345	343.9	551.9	0.997	5.693	1.66	0.265	65.2	264.3	-1.2	0.217
4-3000	4-4440	0.337	73.3	13.2	-2.42	1.294	97.1	0.704	3.357	342.8	552.3	0.995	5.720	1.58	0.266	64.3	264.9	-1.3	0.219
4-3000	4-4460	0.341	74.9	13.8	-2.34	1.295	97.6	0.705	3.370	341.7	552.7	0.993	5.747	1.51	0.268	63.5	265.7	-1.4	0.222
4-3000	4-4480	0.345	76.5	14.4	-2.27	1.295	98.0	0.707	3.382	340.6	553.2	0.990	5.775	1.45	0.270	62.6	266.4	-1.5	0.224
4-3000	4-4500	0.349	78.1	14.9	-2.20	1.296	98.5	0.709	3.395	339.5	553.6	0.987	5.803	1.39	0.271	61.8	267.2	-1.6	0.226
4-3000	4-4520	0.354	79.7	15.3	-2.13	1.296	99.0	0.711	3.408	338.4	554.0	0.984	5.831	1.34	0.273	61.0	268.0	-1.7	0.229
4-3000	4-4540	0.359	81.3	15.8	-2.08	1.296	99.5	0.713	3.421	337.2	554.4	0.981	5.860	1.29	0.275	60.2	268.9	-1.7	0.231
4-3000	4-4560	0.364	82.9	16.2	-2.02	1.297	99.9	0.715	3.434	336.1	554.7	0.977	5.890	1.25	0.276	59.5	269.7	-1.8	0.233
4-3000	4-4580	0.369	84.5	16.5	-1.97	1.297	100.4	0.717	3.447	334.9	555.1	0.974	5.919	1.21	0.278	58.7	270.6	-1.9	0.236
4-3000	4-4600	0.375	86.0	16.8	-1.92	1.298	100.9	0.720	3.460	333.8	555.4	0.970	5.949	1.17	0.280	58.0	271.6	-1.9	0.238
4-3010	4-3270	0.633	50.2	16.7	-0.66	1.619	88.8	1.653-1.549		1.9	106.5	---	---	-0.97	1.020	161.5	286.9	-3.3	0.958
4-3010	4-3290	0.582	47.4	15.9	-0.63	1.566	87.9	1.482-2.097		3.6	109.9	---	---	-0.98	0.934	160.4	287.2	-3.3	0.873
4-3010	4-3310	0.541	44.6	15.2	-0.60	1.523	87.0	1.346-2.918		5.2	113.3	---	---	-0.99	0.859	159.3	287.4	-3.3	0.798
4-3010	4-3330	0.508	41.8	14.4	-0.56	1.487	86.2	1.237-4.262		6.9	116.7	---	---	-1.00	0.793	158.1	287.7	-3.3	0.733
4-3010	4-3350	0.482	39.1	13.6	-0.53	1.457	85.5	1.147-6.823		8.5	120.1	---	---	-1.01	0.735	156.8	287.8	-3.4	0.675
4-3010	4-3370	0.460	36.5	12.8	-0.50	1.432	84.8	1.07413.494		10.0	123.4	---	---	-1.03	0.683	155.5	288.0	-3.4	0.624
4-3010	4-3390	0.443	34.1	12.1	-0.46	1.411	84.2	1.01471.133		11.5	126.6	---	---	-1.04	0.638	154.1	288.0	-3.4	0.579
4-3010	4-3410	0.430	31.9	11.4	-0.43	1.393	83.7	0.96427.762		12.9	129.7	---	---	-1.06	0.597	152.6	288.0	-3.5	0.538
4-3010	4-3430	0.418	29.9	10.8	-0.39	1.378	83.2	0.92212.803		14.2	132.7	---	---	-1.07	0.560	151.1	287.9	-3.5	0.501
4-3010	4-3450	0.409	28.1	10.3	-0.36	1.365	82.8	0.887	8.800	15.3	135.5	---	---	-1.09	0.527	149.4	287.8	-3.5	0.468
4-3010	4-3470	0.402	26.5	9.8	-0.32	1.354	82.5	0.857	6.956	16.4	138.3	---	---	-1.11	0.497	147.7	287.6	-3.6	0.438
4-3010	4-3490	0.395	25.1	9.4	-0.28	1.344	82.2	0.832	5.903	17.3	140.9	---	---	-1.13	0.469	146.0	287.3	-3.7	0.411
4-3010	4-3510	0.390	23.8	9.1	-0.24	1.336	81.9	0.811	5.227	18.1	143.5	---	---	-1.15	0.445	144.2	286.9	-3.7	0.386
4-3010	4-3530	0.385	22.8	8.8	-0.19	1.329	81.7	0.792	4.761	18.8	145.8	---	---	-1.18	0.423	142.3	286.5	-3.8	0.364
4-3010	4-3550	0.381	21.9	8.6	-0.15	1.323	81.5	0.777	4.422	19.4	148.1	---	---	-1.21	0.402	140.3	285.9	-3.9	0.343
4-3010	4-3570	0.378	21.2	8.5	-0.10	1.318	81.4	0.763	4.167	19.9	150.3	---	---	-1.24	0.384	138.3	285.3	-3.9	0.324
4-3010	4-3590	0.374	20.6	8.5	-0.05	1.313	81.3	0.752	3.970	20.2	152.4	---	---	-1.27	0.368	136.2	284.6	-4.0	0.308
4-3010	4-3610	0.371	20.1	8.5	-0.00	1.309	81.3	0.742	3.814	20.5	154.3	---	---	-1.30	0.353	134.1	283.8	-4.1	0.292
4-3010	4-3630	0.368	19.8	8.6	0.05	1.306	81.3	0.733	3.690	20.7	156.2	---	---	-1.34	0.339	132.0	282.9	-4.2	0.278
4-3010	4-3650	0.366	19.5	8.7	0.11	1.303	81.3	0.726	3.589	20.8	157.9	---	---	-1.38	0.327	129.8	282.0	-4.3	0.266
4-3010	4-3670	0.363	19.4	8.9	0.17	1.301	81.3	0.719	3.507	20.8	159.6	---	---	-1.43	0.316	127.6	281.0	-4.4	0.254
4-3010	4-3690	0.361	19.4	9.1	0.24	1.298	81.4	0.714	3.439	20.8	161.2	---	---	-1.48	0.306	125.3	279.9	-4.5	0.244
4-3010	4-3710	0.358	19.4	9.4	0.31	1.297	81.5	0.709	3.383	20.6	162.8	---	---	-1.53	0.297	123.0	278.8	-4.7	0.235
4-3010	4-3730	0.356	19.5	9.7	0.38	1.295	81.6	0.705	3.336	20.4	164.2	---	---	-1.59	0.289	120.7	277.6	-4.8	0.227
4-3010	4-3750	0.353	19.7	10.1	0.46	1.294	81.7	0.701	3.298	20.2	165.6	---	---	-1.66	0.282	118.5	276.3	-4.9	0.220

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THETI	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3030	4-429C	0.367	31.3	33.9	5.57	1.296	82.0	0.698	3.257	19.5	188.5	---	5.531	-6.23	0.253	71.5	261.2	-10.2	0.208
4-3030	4-4310	0.370	30.9	37.7	6.59	1.296	82.4	0.698	3.270	18.5	189.0	---	5.553	-7.23	0.254	70.5	261.7	-11.3	0.211
4-3030	4-433C	0.377	29.8	42.5	7.99	1.296	82.8	0.699	3.282	17.5	189.5	---	5.576	-8.61	0.256	69.5	262.3	-12.7	0.214
4-3030	4-435C	0.393	26.8	48.8	10.05	1.297	83.2	0.699	3.295	16.5	190.0	---	5.599	-10.65	0.258	68.6	263.0	-14.8	0.218
4-3030	4-4370	0.427	19.6	57.0	13.35	1.297	83.6	0.700	3.308	15.5	190.5	---	5.623	-13.94	0.259	67.7	264.0	-17.9	0.225
4-3030	4-439C	0.508	358.3	66.7	19.46	1.298	84.0	0.701	3.321	14.5	191.0	---	5.647	-20.04	0.261	66.8	265.6	-23.1	0.240
4-3030	4-4410	0.740	302.1	66.6	33.96	1.298	84.4	0.701	3.334	13.6	191.5	---	5.672	-34.52	0.263	66.0	269.6	-31.5	0.286
4-3030	4-4430	1.493	267.3	35.1	79.97	1.299	84.6	0.702	3.347	13.1	191.9	---	5.698	-80.51	0.265	65.1	281.6	-33.7	0.465
4-3030	4-445C	0.880	70.8	-69.6	-42.33	1.299	85.6	0.702	3.361	10.6	192.3	---	5.721	41.80	0.267	64.4	273.0	27.5	0.315
4-3030	4-4470	0.557	66.9	-46.0	-23.12	1.300	86.0	0.703	3.374	9.7	192.8	---	5.747	22.61	0.268	63.7	269.1	18.4	0.253
4-3030	4-449C	0.445	65.6	-31.5	-15.69	1.300	86.4	0.704	3.388	8.7	193.2	---	5.773	15.20	0.270	62.9	268.5	12.3	0.237
4-3030	4-4510	0.395	65.4	-21.8	-11.88	1.301	86.9	0.705	3.401	7.6	193.6	---	5.799	11.40	0.272	62.2	268.7	8.7	0.233
4-3030	4-453C	0.369	65.9	-14.9	-9.58	1.301	87.3	0.706	3.415	6.5	194.0	---	5.826	9.12	0.274	61.5	269.3	6.4	0.231
4-3030	4-4550	0.353	66.8	-9.8	-8.05	1.302	87.8	0.707	3.429	5.4	194.4	---	5.853	7.60	0.276	60.8	270.0	4.9	0.231
4-3030	4-4570	0.343	67.9	-5.8	-6.95	1.302	88.2	0.708	3.443	4.3	194.8	---	5.880	6.52	0.278	60.2	270.8	3.7	0.232
4-3030	4-459C	0.335	69.3	-2.6	-6.12	1.302	88.7	0.709	3.457	3.2	195.2	---	5.907	5.71	0.280	59.5	271.6	2.8	0.233
4-3030	4-4610	0.330	70.8	-0.1	-5.48	1.303	89.2	0.710	3.471	2.0	195.6	---	5.935	5.08	0.281	58.9	272.5	2.2	0.234
4-3030	4-4630	0.327	72.4	2.1	-4.96	1.303	89.6	0.711	3.485	0.9	195.9	---	5.963	4.58	0.283	58.3	273.4	1.6	0.236
4-3040	4-3380	0.647	24.0	9.0	-0.44	1.428	67.6	1.04220.568		43.8	128.9	---	---	-1.27	0.664	156.9	286.5	-3.5	0.620
4-3040	4-340C	0.634	22.5	8.5	-0.40	1.407	67.4	0.99086.612		45.4	132.3	---	---	-1.26	0.617	155.5	286.4	-3.5	0.574
4-3040	4-3420	0.623	21.1	8.1	-0.36	1.389	67.2	0.94816.289		46.9	135.6	---	---	-1.26	0.575	154.0	286.1	-3.5	0.533
4-3040	4-3440	0.614	20.0	7.7	-0.33	1.374	67.1	0.913	9.719	48.2	138.5	---	---	-1.26	0.537	152.4	285.9	-3.6	0.496
4-3040	4-3460	0.607	19.1	7.4	-0.29	1.361	66.9	0.884	7.265	49.4	141.4	---	---	-1.26	0.503	150.8	285.5	-3.6	0.463
4-3040	4-3480	0.600	18.3	7.2	-0.25	1.351	66.9	0.860	5.992	50.3	144.0	---	---	-1.27	0.472	149.0	285.1	-3.7	0.434
4-3040	4-3500	0.594	17.6	7.0	-0.21	1.341	66.8	0.840	5.220	51.1	146.6	---	---	-1.27	0.445	147.2	284.5	-3.7	0.407
4-3040	4-3520	0.588	17.1	6.9	-0.17	1.334	66.8	0.823	4.706	51.8	148.9	---	---	-1.27	0.420	145.2	283.9	-3.8	0.383
4-3040	4-3540	0.583	16.7	6.8	-0.14	1.327	66.8	0.809	4.343	52.3	151.1	---	---	-1.28	0.398	143.2	283.3	-3.8	0.361
4-3040	4-3560	0.579	16.3	6.7	-0.10	1.321	66.9	0.797	4.075	52.7	153.2	---	---	-1.28	0.377	141.2	282.5	-3.9	0.342
4-3040	4-3580	0.574	16.1	6.7	-0.06	1.316	66.9	0.786	3.872	53.0	155.2	---	---	-1.29	0.359	139.0	281.7	-3.9	0.324
4-3040	4-3600	0.569	15.9	6.7	-0.02	1.312	67.0	0.777	3.714	53.1	157.0	---	---	-1.30	0.343	136.8	280.8	-4.0	0.308
4-3040	4-3620	0.565	15.8	6.8	0.02	1.309	67.1	0.769	3.589	53.2	158.8	---	---	-1.31	0.328	134.5	279.9	-4.1	0.293
4-3040	4-3640	0.560	15.8	6.9	0.06	1.305	67.3	0.762	3.489	53.2	160.4	---	---	-1.32	0.315	132.2	278.9	-4.1	0.280
4-3040	4-366C	0.556	15.8	7.0	0.10	1.303	67.4	0.756	3.408	53.0	161.9	---	---	-1.33	0.303	129.8	277.8	-4.2	0.269
4-3040	4-3680	0.552	15.9	7.1	0.14	1.301	67.6	0.750	3.343	52.8	163.4	---	---	-1.35	0.292	127.3	276.7	-4.3	0.258
4-3040	4-3700	0.547	16.1	7.3	0.18	1.299	67.8	0.746	3.289	52.6	164.8	---	---	-1.36	0.283	124.9	275.5	-4.3	0.249
4-3040	4-372C	0.542	16.3	7.5	0.23	1.297	68.0	0.742	3.245	52.2	166.1	---	---	-1.38	0.275	122.4	274.4	-4.4	0.241
4-3040	4-3740	0.538	16.5	7.7	0.27	1.296	68.3	0.738	3.209	51.9	167.4	---	---	-1.40	0.267	119.9	273.2	-4.4	0.234
4-3040	4-3760	0.533	16.7	7.9	0.32	1.295	68.5	0.734	3.180	51.4	168.6	---	---	-1.42	0.261	117.4	272.0	-4.5	0.227
4-3040	4-3780	0.528	17.0	8.1	0.36	1.294	68.8	0.731	3.156	50.9	169.7	---	---	-1.44	0.255	114.9	270.8	-4.6	0.222
4-3040	4-380C	0.524	17.4	8.4	0.41	1.293	69.0	0.729	3.138	50.4	170.8	---	---	-1.46	0.250	112.5	269.6	-4.6	0.217
4-3040	4-3820	0.519	17.7	8.7	0.46	1.293	69.3	0.726	3.123	49.8	171.9	---	---	-1.49	0.246	110.1	268.5	-4.7	0.213
4-3040	4-3840	0.514	18.1	9.0	0.51	1.292	69.6	0.724	3.112	49.2	172.9	---	---	-1.52	0.243	107.7	267.4	-4.7	0.209
4-3040	4-3860	0.509	18.6	9.3	0.56	1.292	69.9	0.722	3.103	48.5	173.8	---	---	-1.55	0.240	105.4	266.4	-4.8	0.206
4-3040	4-3880	0.504	19.0	9.7	0.62	1.292	70.2	0.720	3.097	47.8	174.8	---	---	-1.58	0.238	103.1	265.4	-4.9	0.204
4-3040	4-390C	0.499	19.5	10.0	0.67	1.291	70.5	0.719	3.094	47.1	175.7	---	---	-1.61	0.236	100.9	264.5	-4.9	0.202
4-3040	4-392C	0.494	20.0	10.4	0.73	1.291	70.9	0.717	3.092	46.3	176.5	---	---	-1.65	0.235	98.7	263.6	-5.0	0.200
4-3040	4-3940	0.489	20.5	10.8	0.80	1.291	71.2	0.716	3.093	45.6	177.4	---	---	-1.69	0.234	96.6	262.8	-5.0	0.199
4-3040	4-3960	0.483	21.1	11.2	0.86	1.291	71.5	0.715	3.095	44.8	178.2	---	---	-1.74	0.233	94.6	262.1	-5.1	0.198
4-3040	4-398C	0.478	21.7	11.7	0.93	1.292	71.9	0.714	3.098	44.0	178.9	---	---	-1.78	0.233	92.7	261.5	-5.1	0.197
4-3040	4-4000	0.473	22.3	12.1	1.00	1.292	72.2	0.713	3.102	43.1	179.7	---	---	-1.84	0.233	90.8	260.9	-5.2	0.197
4-3040	4-402C	0.468	22.9	12.6	1.08	1.292	72.6	0.712	3.108	42.3	180.4	---	5.319	-1.89	0.233	89.0	260.5	-5.3	0.197
4-3040	4-4040	0.462	23.5	13.2	1.16	1.292	73.0	0.711	3.114	41.4	181.1	---	5.327	-1.95	0.233	87.2	260.1	-5.3	0.197
4-3040	4-406C	0.457	24.2	13.7	1.25	1.292	73.3	0.710	3.121	40.5	181.8	---	5.338	-2.02	0.234	85.6	259.8	-5.4	0.198
4-3040	4-4080	0.452	24.9	14.3	1.34	1.293	73.7	0.709	3.129	39.6	182.5	---	5.349	-2.09	0.235	84.0	259.5	-5.5	0.198
4-3040	4-4100	0.447	25.6	14.9	1.44	1.293	74.1	0.709	3.138	38.6	183.1	---	5.362	-2.17	0.236	82.5	259.4	-5.6	0.199
4-3040	4-412C	0.442	26.3	15.6	1.54	1.293	74.5	0.708	3.147	37.7	183.8	---	5.377	-2.26	0.237	81.0	259.3	-5.7	0.200
4-3040	4-4140	0.436	27.1	16.2	1.66	1.294	74.9	0.708	3.157	36.7	184.4	---	5.392	-2.36	0.238	79.6	259.2	-5.8	0.201
4-3040	4-4160	0.431	27.8	17.0	1.78	1.294	75.3	0.708	3.168	35.8	185.0	---	5.409	-2.46	0.240	78.3	259.3	-5.9	0.202
4-3040	4-418C	0.426	28.6	17.8	1.92	1.295	75.7	0.707	3.178	34.8	185.6	---	5.427	-2.58	0.241	77.0	259.4	-6.0	0.203
4-3040	4-4200	0.421	29.4	18.6	2.07	1.295	76.1	0.707	3.190	33.8	186.1	---	5.445	-2.72	0.243	75.7	259.6	-6.1	0.204
4-3040	4-422C	0.417	30.2	19.5	2.24	1.296	76.5	0.707	3.201	32.8	186.7	---	5.464	-2.87	0.244	74.6	259.8	-6.3	0.205
4-3040	4-4240	0.412	31.0	20.5	2.43	1.296	76.9	0.707	3.213	31.8	187.2	---	5.484	-3.03	0.246	73.4	260.1	-6.5	0.207
4-3040	4-4260	0.407	31.8	21.6	2.64	1.296	77.3	0.707	3.225	30.8	187.8	---	5.505	-3.23	0.248	72.3	260.4	-6.7	0.208
4-3040	4-4280	0.403	32.6	22.8	2.87	1.297	77.7	0.707	3.238	29.8	188.3	---	5.526	-3.45	0.249	71.3	260.8	-6.9	0.209
4-3040	4-4300	0.399	33.4	24.1	3.15	1.297	78.1	0.707	3.251	28.7	188.8	---	5.548	-3.70	0.251	70.3	261.3	-7.2	0.211
4-3040	4-432C	0.395	34.2	25.6	3.46	1.298	78.6	0.707	3.264	27.7	189.3	---	5.571	-4.00	0.253	69.3	261.7	-7.5	0.213
4-3040	4-4340	0.391	34.9	27.2	3.83	1.298	79.0	0.707	3.277	26.7	189.8	---	5.593	-4.35	0.255	68.4	262.3	-7.9	0.214
4-3040	4-436C	0.389	35.6	29.1	4.27	1.299	79.4	0.707	3.290	25.6	190.2	---	5.617	-4.77	0.257	67.5	262.8	-8.3	0.216
4-3040	4-438C	0.386	36.1	31.4	4.81	1.299	79.9	0.707	3.304	24.5	190.7	---	5.641	-5.29	0.259	66.7	263.5	-8.8	0.218
4-3040	4-4400	0.385	36.5	34.0	5.47	1.300	80.3	0.708	3.317	23.5	191.2	---	5.665	-5.94	0.260	65.9	264.1	-9.5	0.220
4-3040	4-442C	0.386	36.5	37.2	6.32	1.300	80.7	0.708	3.331	22.4	191.6	---	5.689	-6.77	0.262	65.1	264.9	-10.3	0.222
4-3040	4-4440	0.390	36.1	41.1	7.44	1.301	81.2	0.708	3.345	21.3	192.1	---	5.714	-7.87	0.264	64.3	265.7	-11.4	0.225
4-3040	4-4460	0.399	34.6	46.1	8.99	1.301	81.6	0.709	3.359	20.2	192.5	---	5.739	-9.40	0.266	63.6	266.5	-12.9	0.228
4-3040	4-4480	0.417	31.1	52.6	11.27	1.302	82.1	0.709	3.373	19.2	192.9	---	5.765	-11.67	0.268	62.8	267.5	-15.0	0.233
4-3040	4-4500	0.458	22.1	60.9	14.98	1.302	82.5	0.710	3.387	18.1	193.3	---	5.791	-15.36	0.270	62.1	268.9	-18.3	0.241
4-3040	4-4520	0.553	354.3	69.5	21.94	1.303	82.9	0.710	3.402	17.1	193.7	---	5.817	-22.31	0.272	61.5	271.0	-23.7	0.258
4-3040	4-4540	0.826	297.8	64.0	38.66	1.303	83.3	0.711	3.416	16.2	194.1	---	5.844	-39.01	0.274	60.8	276.4	-32.0	0.311
4-3040	4-456C	1.612	273.6	30.0	87.85	1.304	83.4	0.712	3.430	15.8	194.6	---	5.872	-88.18	0.276	60.1	290.2	-31.6	0.497
4-3040	4-458C	0.860	66.5	-66.4	-40.84	1.304	84.6	0.711	3.445	13.0	194.9	---	5.895	40.52	0.278	59.6	278.3	26.2	0.319
4-3040	4-4600	0.564	68.8	-44.4	-23.18	1.305	85.0	0.712	3.459	12.1	195.3	---	5.923	22.88	0.280	59.0	274.7	17.6	0.265

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3040	4-462C	0.455	69.0	-30.4	-15.94	1.305	85.4	0.713	3.473	11.0	195.7	---	5.950	15.66	0.282	58.4	274.2	12.0	0.250
4-3040	4-464C	0.405	69.6	-20.9	-12.13	1.305	85.9	0.714	3.488	9.9	196.0	---	5.977	11.86	0.284	57.9	274.6	8.6	0.245
4-3050	4-339C	0.742	22.8	8.8	-0.43	1.418	61.2	1.01169	6.633	57.3	133.5	---	---	-1.34	0.638	157.5	285.3	-3.5	0.605
4-3050	4-341C	0.728	21.7	8.4	-0.39	1.398	61.1	0.96823	6.891	58.9	136.8	---	---	-1.33	0.592	156.0	285.0	-3.5	0.560
4-3050	4-343C	0.717	20.7	8.1	-0.35	1.381	61.1	0.93311	6.318	60.2	139.8	---	---	-1.32	0.550	154.5	284.7	-3.6	0.521
4-3050	4-345C	0.707	20.0	7.9	-0.31	1.367	61.0	0.904	7.873	61.3	142.7	---	---	-1.32	0.514	152.9	284.3	-3.6	0.485
4-3050	4-347C	0.698	19.3	7.7	-0.27	1.355	61.1	0.880	6.277	62.3	145.4	---	---	-1.31	0.481	151.2	283.8	-3.6	0.454
4-3050	4-349C	0.691	18.8	7.5	-0.23	1.345	61.1	0.860	5.363	63.1	147.9	---	---	-1.31	0.451	149.3	283.3	-3.7	0.425
4-3050	4-351C	0.684	18.4	7.4	-0.19	1.337	61.2	0.844	4.778	63.7	150.2	---	---	-1.30	0.424	147.4	282.6	-3.7	0.400
4-3050	4-353C	0.677	18.0	7.4	-0.15	1.330	61.3	0.830	4.374	64.2	152.4	---	---	-1.30	0.400	145.4	281.9	-3.8	0.377
4-3050	4-355C	0.671	17.8	7.3	-0.12	1.323	61.4	0.817	4.082	64.5	154.4	---	---	-1.30	0.378	143.4	281.2	-3.8	0.356
4-3050	4-357C	0.665	17.6	7.3	-0.08	1.318	61.5	0.807	3.863	64.7	156.3	---	---	-1.30	0.359	141.2	280.3	-3.9	0.337
4-3050	4-359C	0.659	17.6	7.4	-0.04	1.314	61.7	0.798	3.695	64.8	158.1	---	---	-1.30	0.341	138.9	279.4	-3.9	0.321
4-3050	4-361C	0.654	17.5	7.4	-0.00	1.310	61.8	0.790	3.563	64.8	159.7	---	---	-1.31	0.325	136.6	278.4	-4.0	0.305
4-3050	4-363C	0.648	17.5	7.5	0.04	1.307	62.0	0.783	3.459	64.7	161.3	---	---	-1.31	0.311	134.2	277.4	-4.0	0.292
4-3050	4-365C	0.643	17.6	7.6	0.08	1.304	62.3	0.777	3.375	64.5	162.8	---	---	-1.31	0.298	131.7	276.4	-4.1	0.280
4-3050	4-367C	0.637	17.7	7.8	0.12	1.302	62.5	0.772	3.307	64.3	164.2	---	---	-1.32	0.287	129.2	275.2	-4.1	0.269
4-3050	4-369C	0.632	17.9	7.9	0.15	1.300	62.7	0.767	3.252	63.9	165.5	---	---	-1.33	0.277	126.6	274.1	-4.2	0.259
4-3050	4-371C	0.626	18.1	8.1	0.19	1.298	63.0	0.763	3.207	63.5	166.8	---	---	-1.34	0.268	124.0	273.0	-4.2	0.251
4-3050	4-373C	0.621	18.3	8.2	0.23	1.297	63.3	0.759	3.171	63.1	168.0	---	---	-1.35	0.261	121.4	271.8	-4.3	0.243
4-3050	4-375C	0.615	18.6	8.4	0.27	1.295	63.6	0.755	3.142	62.6	169.1	---	---	-1.36	0.254	118.8	270.6	-4.3	0.237
4-3050	4-377C	0.610	18.9	8.6	0.32	1.294	63.8	0.752	3.118	62.0	170.2	---	---	-1.37	0.248	116.2	269.5	-4.4	0.231
4-3050	4-379C	0.604	19.2	8.9	0.36	1.294	64.2	0.749	3.099	61.4	171.3	---	---	-1.38	0.243	113.6	268.4	-4.4	0.226
4-3050	4-381C	0.598	19.6	9.1	0.40	1.293	64.5	0.746	3.085	60.8	172.3	---	---	-1.40	0.239	111.1	267.3	-4.5	0.221
4-3050	4-383C	0.593	19.9	9.4	0.44	1.293	64.8	0.744	3.074	60.1	173.2	---	---	-1.41	0.235	108.5	266.2	-4.5	0.218
4-3050	4-385C	0.587	20.3	9.6	0.49	1.292	65.1	0.742	3.066	59.4	174.2	---	---	-1.43	0.232	106.1	265.2	-4.5	0.214
4-3050	4-387C	0.581	20.8	9.9	0.53	1.292	65.5	0.740	3.061	58.7	175.0	---	---	-1.45	0.230	103.6	264.3	-4.6	0.212
4-3050	4-389C	0.575	21.2	10.2	0.58	1.292	65.8	0.738	3.058	57.9	175.9	---	---	-1.47	0.228	101.3	263.4	-4.6	0.210
4-3050	4-391C	0.569	21.7	10.5	0.63	1.292	66.2	0.736	3.057	57.1	176.7	---	---	-1.50	0.227	99.0	262.6	-4.7	0.208
4-3050	4-393C	0.563	22.2	10.8	0.67	1.292	66.5	0.734	3.058	56.3	177.5	---	---	-1.52	0.226	96.8	261.9	-4.7	0.207
4-3050	4-395C	0.557	22.7	11.2	0.73	1.292	66.9	0.733	3.060	55.5	178.3	---	---	-1.55	0.226	94.7	261.2	-4.7	0.206
4-3050	4-397C	0.551	23.2	11.5	0.78	1.292	67.3	0.731	3.064	54.6	179.0	---	---	-1.58	0.225	92.7	260.7	-4.8	0.205
4-3050	4-399C	0.545	23.7	11.9	0.83	1.293	67.6	0.730	3.069	53.8	179.7	---	---	-1.61	0.226	90.7	260.2	-4.8	0.204
4-3050	4-401C	0.539	24.3	12.2	0.89	1.293	68.0	0.729	3.075	52.9	180.4	---	5.316	-1.64	0.226	88.8	259.7	-4.8	0.204
4-3050	4-403C	0.533	24.9	12.6	0.95	1.293	68.4	0.727	3.082	51.9	181.1	---	5.324	-1.68	0.227	87.0	259.4	-4.9	0.204
4-3050	4-405C	0.527	25.5	13.0	1.01	1.293	68.8	0.726	3.090	51.0	181.8	---	5.335	-1.72	0.228	85.3	259.1	-4.9	0.204
4-3050	4-407C	0.521	26.1	13.5	1.07	1.294	69.2	0.725	3.099	50.1	182.4	---	5.347	-1.76	0.229	83.7	258.9	-5.0	0.205
4-3050	4-409C	0.515	26.7	13.9	1.14	1.294	69.6	0.724	3.108	49.1	183.0	---	5.360	-1.81	0.230	82.1	258.8	-5.0	0.205
4-3050	4-411C	0.509	27.4	14.4	1.21	1.295	70.0	0.724	3.118	48.2	183.6	---	5.374	-1.85	0.231	80.6	258.7	-5.1	0.206
4-3050	4-413C	0.503	28.0	14.9	1.28	1.295	70.4	0.723	3.129	47.2	184.2	---	5.390	-1.91	0.233	79.1	258.7	-5.1	0.207
4-3050	4-415C	0.497	28.7	15.4	1.36	1.295	70.8	0.722	3.140	46.2	184.8	---	5.407	-1.97	0.234	77.8	258.8	-5.2	0.207
4-3050	4-417C	0.491	29.4	15.9	1.45	1.296	71.2	0.721	3.151	45.2	185.4	---	5.424	-2.03	0.236	76.5	258.9	-5.2	0.208
4-3050	4-419C	0.485	30.1	16.4	1.54	1.296	71.7	0.721	3.163	44.2	185.9	---	5.443	-2.10	0.237	75.2	259.1	-5.3	0.209
4-3050	4-421C	0.479	30.9	17.0	1.63	1.297	72.1	0.720	3.175	43.2	186.5	---	5.462	-2.18	0.239	74.0	259.4	-5.4	0.210
4-3050	4-423C	0.473	31.6	17.6	1.73	1.297	72.5	0.720	3.188	42.2	187.0	---	5.482	-2.26	0.241	72.9	259.6	-5.5	0.212
4-3050	4-425C	0.467	32.4	18.3	1.85	1.298	72.9	0.719	3.201	41.1	187.5	---	5.503	-2.35	0.243	71.8	260.0	-5.6	0.213
4-3050	4-427C	0.461	33.2	19.0	1.96	1.298	73.4	0.719	3.214	40.1	188.0	---	5.524	-2.45	0.245	70.8	260.4	-5.7	0.214
4-3050	4-429C	0.455	34.0	19.7	2.10	1.299	73.8	0.719	3.227	39.0	188.5	---	5.546	-2.56	0.247	69.8	260.8	-5.8	0.215
4-3050	4-431C	0.450	34.8	20.5	2.24	1.299	74.2	0.718	3.241	38.0	189.0	---	5.568	-2.69	0.249	68.8	261.3	-5.9	0.217
4-3050	4-433C	0.444	35.6	21.3	2.39	1.300	74.7	0.718	3.254	36.9	189.5	---	5.591	-2.82	0.251	67.9	261.9	-6.0	0.218
4-3050	4-435C	0.439	36.5	22.2	2.57	1.300	75.1	0.718	3.268	35.9	190.0	---	5.614	-2.98	0.253	67.0	262.4	-6.2	0.219
4-3050	4-437C	0.433	37.3	23.2	2.76	1.301	75.6	0.718	3.282	34.8	190.4	---	5.638	-3.15	0.255	66.2	263.0	-6.4	0.221
4-3050	4-439C	0.428	38.2	24.3	2.98	1.301	76.0	0.717	3.297	33.7	190.9	---	5.662	-3.35	0.257	65.4	263.7	-6.6	0.222
4-3050	4-441C	0.423	39.0	25.5	3.23	1.302	76.4	0.717	3.311	32.6	191.3	---	5.686	-3.58	0.259	64.6	264.4	-6.8	0.224
4-3050	4-443C	0.418	39.8	26.8	3.51	1.302	76.9	0.717	3.325	31.5	191.8	---	5.710	-3.85	0.261	63.8	265.1	-7.1	0.225
4-3050	4-445C	0.414	40.7	28.2	3.84	1.303	77.3	0.717	3.340	30.4	192.2	---	5.735	-4.16	0.263	63.1	265.8	-7.4	0.227
4-3050	4-447C	0.410	41.4	29.9	4.22	1.303	77.8	0.717	3.354	29.3	192.6	---	5.761	-4.52	0.265	62.4	266.6	-7.7	0.228
4-3050	4-449C	0.407	42.1	31.8	4.68	1.304	78.3	0.717	3.369	28.2	193.0	---	5.786	-4.96	0.267	61.8	267.4	-8.1	0.230
4-3050	4-451C	0.404	42.7	34.0	5.23	1.304	78.7	0.718	3.384	27.1	193.4	---	5.812	-5.50	0.269	61.1	268.3	-8.7	0.232
4-3050	4-453C	0.403	43.2	36.6	5.92	1.305	79.2	0.718	3.399	26.0	193.8	---	5.838	-6.18	0.271	60.5	269.1	-9.3	0.234
4-3050	4-455C	0.404	43.3	39.7	6.81	1.305	79.6	0.718	3.413	24.9	194.2	---	5.864	-7.04	0.273	59.9	270.1	-10.1	0.236
4-3050	4-457C	0.408	42.9	43.7	7.97	1.306	80.1	0.718	3.428	23.8	194.6	---	5.890	-8.19	0.275	59.3	271.1	-11.2	0.238
4-3050	4-459C	0.417	41.5	48.7	9.59	1.306	80.5	0.718	3.443	22.7	195.0	---	5.917	-9.79	0.277	58.7	272.1	-12.7	0.241
4-3050	4-461C	0.436	37.9	55.2	11.99	1.307	81.0	0.719	3.458	21.5	195.4	---	5.943	-12.17	0.279	58.2	273.4	-14.8	0.246
4-3050	4-463C	0.479	28.2	63.6	15.88	1.307	81.5	0.719	3.473	20.4	195.7	---	5.970	-16.04	0.281	57.6	274.9	-18.0	0.254
4-3050	4-465C	0.581	356.5	71.6	23.20	1.308	81.9	0.720	3.488	19.4	196.1	---	5.998	-23.35	0.283	57.1	277.5	-23.4	0.272
4-3060	4-338C	0.865	24.1	9.4	-0.48	1.431	54.4	1.03022	2.231	70.0	135.5	---	---	-1.43	0.662	159.8	284.0	-3.5	0.640
4-3060	4-340C	0.848	23.2	9.1	-0.44	1.408	54.5	0.98752	2.337	71.6	138.8	---	---	-1.41	0.611	158.4	283.7	-3.5	0.592
4-3060	4-342C	0.833	22.4	8.8	-0.39	1.389	54.6	0.95313	2.956	72.9	141.9	---	---	-1.39	0.566	157.0	283.3	-3.5	0.549
4-3060	4-344C	0.820	21.8	8.6	-0.35	1.374	54.7	0.925	8.695	74.0	144.7	---	---	-1.38	0.525	155.4	282.9	-3.6	0.511
4-3060	4-346C	0.809	21.3	8.5	-0.30	1.361	54.8	0.902	6.624	74.9	147.3	---	---	-1.36	0.490	153.7	282.4	-3.6	0.477
4-3060	4-348C	0.799	20.9	8.4	-0.26	1.350	54.9	0.883	5.526	75.6	149.7	---	---	-1.35	0.457	151.9	281.8	-3.7	0.446
4-3060	4-350C	0.789	20.6	8.3	-0.22	1.340	55.1	0.867	4.852	76.2	152.0	---	---	-1.34	0.428	150.0	281.1	-3.7	0.419
4-3060	4-352C	0.781	20.3	8.3	-0.18	1.332	55.3	0.853	4.401	76.6	154.0	---	---	-1.33	0.402	148.1	280.4	-3.7	0.395
4-3060	4-354C	0.773	20.2	8.3	-0.14	1.326	55.5	0.842	4.082	76.8	156.0	---	---	-1.32	0.379	146.0	279.6	-3.8	0.373
4-3060	4-356C	0.765	20.1	8.3	-0.10	1.320	55.7	0.831	3.846	76.9	157.8	---	---	-1.32	0.358	143.8	278.7	-3.8	0.353
4-3060	4-358C	0.758	20.1	8.4	-0.06	1.315	56.0	0.823	3.668	76.9	159.5	---	---	-1.31	0.339	141.5	277.8	-3.9	0.336
4-3060	4-360C	0.751	20.1	8.4	-0.02	1.311	56.2	0.815	3.529	76.8	161.1	---	---	-1.31	0.322	139.1	276.8	-3.9	0.320
4-3060	4-362C	0.744	20.2	8.5	0.02	1.308	56.5	0.808	3.420	76.6	162.5	---	---	-1.30	0.306	136.6	275.7	-3.9	0.306
4-3060	4-364C	0.737	20.3	8.6	0.06	1.305	56.8	0.802	3.333	76.3	163.9	---	---	-1.30	0.293	134.1	274.7	-4.0	0.293

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

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

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3060	4-3660	0.731	20.5	8.8	0.09	1.302	57.1	0.797	3.263	76.0	165.3	---	---	-1.30	0.281	131.5	273.6	-4.0	0.282
4-3060	4-3680	0.724	20.6	8.9	0.13	1.300	57.4	0.792	3.207	75.6	166.5	---	---	-1.30	0.270	128.8	272.5	-4.1	0.272
4-3060	4-3700	0.717	20.9	9.1	0.17	1.298	57.7	0.787	3.162	75.1	167.7	---	---	-1.30	0.260	126.1	271.3	-4.1	0.263
4-3060	4-3720	0.711	21.1	9.2	0.21	1.297	58.0	0.783	3.125	74.6	168.8	---	---	-1.30	0.252	123.3	270.2	-4.1	0.255
4-3060	4-3740	0.704	21.4	9.4	0.25	1.296	58.3	0.780	3.096	74.0	169.9	---	---	-1.31	0.245	120.5	269.1	-4.2	0.248
4-3060	4-3760	0.698	21.7	9.6	0.28	1.295	58.7	0.776	3.072	73.4	170.9	---	---	-1.31	0.239	117.7	268.0	-4.2	0.242
4-3060	4-3780	0.691	22.0	9.8	0.32	1.294	59.0	0.773	3.054	72.7	171.9	---	---	-1.32	0.233	115.0	266.9	-4.2	0.237
4-3060	4-3800	0.685	22.4	10.0	0.36	1.294	59.4	0.770	3.040	72.0	172.8	---	---	-1.32	0.229	112.2	265.8	-4.3	0.232
4-3060	4-3820	0.678	22.7	10.2	0.40	1.293	59.8	0.767	3.030	71.3	173.7	---	---	-1.33	0.225	109.5	264.9	-4.3	0.228
4-3060	4-3840	0.672	23.1	10.5	0.44	1.293	60.1	0.765	3.022	70.5	174.6	---	---	-1.34	0.223	106.9	263.9	-4.3	0.225
4-3060	4-3860	0.665	23.5	10.7	0.48	1.293	60.5	0.763	3.018	69.7	175.4	---	---	-1.35	0.220	104.3	263.0	-4.3	0.222
4-3060	4-3880	0.658	24.0	10.9	0.52	1.293	60.9	0.760	3.016	68.9	176.2	---	---	-1.36	0.219	101.8	262.2	-4.4	0.220
4-3060	4-3900	0.652	24.4	11.2	0.56	1.293	61.3	0.758	3.015	68.1	177.0	---	---	-1.38	0.217	99.3	261.5	-4.4	0.218
4-3060	4-3920	0.645	24.9	11.5	0.60	1.293	61.7	0.756	3.017	67.2	177.7	---	---	-1.39	0.217	97.0	260.8	-4.4	0.216
4-3060	4-3940	0.638	25.3	11.7	0.64	1.293	62.1	0.754	3.020	66.3	178.5	---	---	-1.40	0.216	94.7	260.2	-4.4	0.215
4-3060	4-3960	0.631	25.8	12.0	0.68	1.293	62.5	0.753	3.025	65.4	179.2	---	---	-1.42	0.216	92.5	259.7	-4.5	0.214
4-3060	4-3980	0.625	26.3	12.3	0.73	1.293	62.9	0.751	3.030	64.5	179.8	---	---	-1.44	0.217	90.5	259.2	-4.5	0.214
4-3060	4-4000	0.618	26.8	12.6	0.77	1.293	63.3	0.749	3.037	63.6	180.5	---	5.313	-1.46	0.217	88.5	258.9	-4.5	0.213
4-3060	4-4020	0.611	27.4	12.9	0.82	1.294	63.7	0.748	3.045	62.6	181.2	---	5.322	-1.48	0.218	86.6	258.6	-4.5	0.213
4-3060	4-4040	0.604	27.9	13.3	0.87	1.294	64.1	0.746	3.054	61.7	181.8	---	5.332	-1.50	0.219	84.8	258.3	-4.5	0.213
4-3060	4-4060	0.597	28.5	13.6	0.91	1.294	64.5	0.745	3.063	60.7	182.4	---	5.345	-1.53	0.221	83.1	258.2	-4.6	0.213
4-3060	4-4080	0.591	29.1	13.9	0.97	1.295	65.0	0.744	3.073	59.7	183.0	---	5.358	-1.56	0.222	81.4	258.1	-4.6	0.214
4-3060	4-4100	0.584	29.6	14.3	1.02	1.295	65.4	0.742	3.084	58.7	183.6	---	5.373	-1.58	0.224	79.9	258.1	-4.6	0.214
4-3060	4-4120	0.577	30.3	14.7	1.07	1.296	65.8	0.741	3.095	57.7	184.1	---	5.389	-1.62	0.225	78.4	258.1	-4.7	0.215
4-3060	4-4140	0.570	30.9	15.0	1.13	1.296	66.3	0.740	3.107	56.7	184.7	---	5.406	-1.65	0.227	77.0	258.2	-4.7	0.215
4-3060	4-4160	0.563	31.5	15.4	1.19	1.297	66.7	0.739	3.119	55.7	185.2	---	5.424	-1.69	0.229	75.7	258.4	-4.7	0.216
4-3060	4-4180	0.557	32.2	15.8	1.25	1.297	67.1	0.738	3.131	54.7	185.8	---	5.442	-1.73	0.231	74.4	258.6	-4.8	0.217
4-3060	4-4200	0.550	32.8	16.3	1.31	1.298	67.6	0.737	3.144	53.6	186.3	---	5.462	-1.77	0.233	73.2	258.8	-4.8	0.218
4-3060	4-4220	0.543	33.5	16.7	1.38	1.298	68.0	0.736	3.157	52.6	186.8	---	5.482	-1.82	0.235	72.0	259.2	-4.9	0.219
4-3060	4-4240	0.536	34.2	17.2	1.45	1.299	68.4	0.735	3.171	51.5	187.3	---	5.503	-1.87	0.237	70.9	259.5	-4.9	0.220
4-3060	4-4260	0.529	34.9	17.6	1.52	1.299	68.9	0.735	3.185	50.5	187.8	---	5.524	-1.92	0.239	69.9	260.0	-5.0	0.221
4-3060	4-4280	0.523	35.6	18.1	1.60	1.300	69.3	0.734	3.199	49.4	188.3	---	5.546	-1.98	0.242	68.9	260.4	-5.0	0.222
4-3060	4-4300	0.516	36.4	18.6	1.69	1.300	69.8	0.733	3.213	48.3	188.7	---	5.568	-2.04	0.244	67.9	260.9	-5.1	0.223
4-3060	4-4320	0.509	37.1	19.2	1.77	1.301	70.2	0.732	3.227	47.3	189.2	---	5.591	-2.11	0.246	67.0	261.4	-5.2	0.224
4-3060	4-4340	0.503	37.9	19.7	1.87	1.301	70.7	0.732	3.242	46.2	189.7	---	5.614	-2.19	0.248	66.2	262.0	-5.2	0.225
4-3060	4-4360	0.496	38.7	20.3	1.97	1.302	71.1	0.731	3.256	45.1	190.1	---	5.638	-2.27	0.250	65.3	262.6	-5.3	0.226
4-3060	4-4380	0.490	39.5	20.9	2.08	1.302	71.6	0.731	3.271	44.0	190.6	---	5.662	-2.36	0.253	64.6	263.3	-5.4	0.227
4-3060	4-4400	0.483	40.3	21.6	2.20	1.303	72.1	0.730	3.286	42.9	191.0	---	5.686	-2.46	0.255	63.8	264.0	-5.5	0.229
4-3060	4-4420	0.477	41.2	22.3	2.33	1.304	72.5	0.730	3.301	41.8	191.4	---	5.710	-2.57	0.257	63.1	264.7	-5.6	0.230
4-3060	4-4440	0.471	42.0	23.1	2.47	1.304	73.0	0.729	3.316	40.7	191.8	---	5.735	-2.70	0.259	62.4	265.4	-5.7	0.231
4-3060	4-4460	0.465	42.9	23.9	2.63	1.305	73.4	0.729	3.331	39.6	192.3	---	5.760	-2.83	0.261	61.7	266.2	-5.9	0.232
4-3060	4-4480	0.459	43.8	24.7	2.80	1.305	73.9	0.729	3.346	38.5	192.7	---	5.785	-2.99	0.264	61.0	267.0	-6.0	0.234
4-3060	4-4500	0.453	44.6	25.7	3.00	1.306	74.4	0.729	3.362	37.4	193.1	---	5.811	-3.16	0.266	60.4	267.8	-6.2	0.235
4-3060	4-4520	0.447	45.5	26.7	3.21	1.306	74.8	0.728	3.377	36.2	193.5	---	5.837	-3.36	0.268	59.8	268.6	-6.4	0.236
4-3060	4-4540	0.442	46.4	27.8	3.46	1.307	75.3	0.728	3.392	35.1	193.9	---	5.862	-3.59	0.270	59.2	269.5	-6.6	0.238
4-3060	4-4560	0.437	47.3	29.0	3.74	1.307	75.8	0.728	3.408	34.0	194.2	---	5.888	-3.86	0.272	58.7	270.4	-6.8	0.239
4-3060	4-4580	0.432	48.2	30.4	4.07	1.308	76.2	0.728	3.423	32.8	194.6	---	5.915	-4.17	0.274	58.1	271.3	-7.1	0.240
4-3060	4-4600	0.427	49.1	32.0	4.45	1.308	76.7	0.728	3.439	31.7	195.0	---	5.941	-4.53	0.277	57.6	272.3	-7.4	0.242
4-3060	4-4620	0.423	49.9	33.8	4.91	1.309	77.2	0.728	3.454	30.6	195.4	---	5.967	-4.97	0.279	57.1	273.2	-7.8	0.243
4-3060	4-4640	0.421	50.6	35.9	5.46	1.309	77.7	0.728	3.469	29.4	195.7	---	5.994	-5.51	0.281	56.6	274.2	-8.3	0.245
4-3060	4-4660	0.419	51.1	38.5	6.15	1.310	78.1	0.728	3.485	28.3	196.1	---	6.021	-6.18	0.283	56.1	275.3	-8.9	0.247
4-3070	4-3390	0.981	25.4	10.0	-0.50	1.420	47.3	1.00508.351		85.2	141.6	---	---	-1.51	0.634	161.2	282.2	-3.5	0.629
4-3070	4-3410	0.961	24.8	9.8	-0.45	1.399	47.5	0.97319.652		86.4	144.6	---	---	-1.49	0.584	159.8	281.8	-3.5	0.582
4-3070	4-3430	0.945	24.3	9.7	-0.40	1.381	47.8	0.947	9.992	87.4	147.3	---	---	-1.46	0.540	158.3	281.3	-3.5	0.541
4-3070	4-3450	0.930	23.9	9.6	-0.35	1.367	48.1	0.925	7.114	88.2	149.8	---	---	-1.43	0.500	156.7	280.7	-3.6	0.504
4-3070	4-3470	0.917	23.6	9.5	-0.30	1.354	48.3	0.907	5.744	88.8	152.1	---	---	-1.41	0.465	155.0	280.1	-3.6	0.471
4-3070	4-3490	0.905	23.4	9.5	-0.25	1.344	48.6	0.892	4.951	89.2	154.2	---	---	-1.39	0.433	153.1	279.4	-3.6	0.442
4-3070	4-3510	0.894	23.3	9.5	-0.21	1.335	48.9	0.880	4.440	89.4	156.1	---	---	-1.37	0.405	151.2	278.6	-3.7	0.416
4-3070	4-3530	0.883	23.2	9.5	-0.17	1.328	49.2	0.869	4.086	89.5	157.9	---	---	-1.36	0.379	149.1	277.8	-3.7	0.393
4-3070	4-3550	0.874	23.2	9.5	-0.12	1.322	49.6	0.859	3.830	89.5	159.6	---	---	-1.34	0.356	146.9	276.9	-3.7	0.372
4-3070	4-3570	0.864	23.3	9.6	-0.08	1.316	49.9	0.851	3.639	89.3	161.2	---	---	-1.33	0.336	144.6	275.9	-3.8	0.354
4-3070	4-3590	0.856	23.3	9.7	-0.04	1.312	50.2	0.843	3.492	89.1	162.6	---	---	-1.32	0.317	142.2	274.9	-3.8	0.337
4-3070	4-3610	0.847	23.5	9.8	-0.00	1.308	50.6	0.837	3.377	88.8	164.0	---	---	-1.31	0.301	139.7	273.9	-3.8	0.322
4-3070	4-3630	0.839	23.6	9.9	0.04	1.305	50.9	0.831	3.287	88.4	165.3	---	---	-1.30	0.286	137.0	272.8	-3.9	0.309
4-3070	4-3650	0.831	23.8	10.0	0.08	1.303	51.3	0.825	3.215	87.9	166.5	---	---	-1.29	0.273	134.3	271.8	-3.9	0.297
4-3070	4-3670	0.823	24.1	10.2	0.12	1.300	51.7	0.820	3.158	87.4	167.6	---	---	-1.28	0.261	131.5	270.7	-3.9	0.286
4-3070	4-3690	0.815	24.3	10.3	0.15	1.299	52.1	0.816	3.112	86.9	168.7	---	---	-1.27	0.251	128.6	269.5	-4.0	0.277
4-3070	4-3710	0.807	24.6	10.5	0.19	1.297	52.4	0.812	3.075	86.2	169.7	---	---	-1.27	0.242	125.7	268.5	-4.0	0.269
4-3070	4-3730	0.800	24.9	10.7	0.23	1.296	52.8	0.808	3.045	85.6	170.7	---	---	-1.27	0.234	122.7	267.4	-4.0	0.262
4-3070	4-3750	0.792	25.2	10.8	0.26	1.295	53.2	0.804	3.022	84.9	171.7	---	---	-1.26	0.228	119.7	266.3	-4.0	0.255
4-3070	4-3770	0.785	25.5	11.0	0.30	1.294	53.6	0.801	3.004	84.1	172.6	---	---	-1.26	0.222	116.7	265.3	-4.1	0.250
4-3070	4-3790	0.777	25.9	11.2	0.34	1.294	54.1	0.798	2.990	83.3	173.4	---	---	-1.26	0.217	113.7	264.3	-4.1	0.245
4-3070	4-3810	0.769	26.3	11.4	0.37	1.293	54.5	0.795	2.981	82.5	174.3	---	---	-1.26	0.214	110.8	263.4	-4.1	0.241
4-3070	4-3830	0.762	26.7	11.6	0.41	1.293	54.9	0.792	2.974	81.7	175.1	---	---	-1.26	0.211	107.9	262.5	-4.1	0.237
4-3070	4-3850	0.754	27.1	11.8	0.44	1.293	55.3	0.789	2.970	80.9	175.8	---	---	-1.27	0.208	105.1	261.7	-4.1	0.234
4-3070	4-3870	0.747	27.5	12.1	0.48	1.293	55.7	0.786	2.968	80.0	176.6	---	---	-1.27	0.207	102.3	260.9	-4.1	0.232
4-3070	4-3890	0.739	27.9	12.3	0.52	1.293	56.2	0.784	2.969	79.1	177.3	---	---	-1.28	0.206	99.7	260.3	-4.1	0.230
4-3070	4-3910	0.732	28.4	12.5	0.55	1.293	56.6	0.782	2.971	78.2	178.0	---	---	-1.28	0.205	97.1	259.7	-4.2	0.228
4-3070	4-3930	0.724	28.8	12.7	0.59	1.293	57.0	0.779	2.975	77.2	178.7	---	---	-1.29	0.205	94.7	259.1	-4.2	0.227
4-3070	4-3950	0.717	29.3	13.0	0.63	1.293	57.5	0.777	2.980	76.3	179.3	---	---	-1.30	0.205	92.3	258.7	-4.2	0.225

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3070	4-397C	0.710	29.8	13.2	0.66	1.293	57.9	0.775	2.987	75.3	180.0	---	---	-1.30	0.206	90.1	258.3	-4.2	0.225
4-3070	4-399C	0.702	30.3	13.5	0.70	1.294	58.4	0.773	2.994	74.4	180.6	---	5.310	-1.31	0.207	88.0	258.0	-4.2	0.224
4-3070	4-401C	0.695	30.8	13.8	0.74	1.294	58.8	0.771	3.003	73.4	181.2	---	5.319	-1.33	0.208	86.0	257.7	-4.2	0.224
4-3070	4-403C	0.687	31.3	14.0	0.78	1.295	59.3	0.770	3.012	72.4	181.8	---	5.330	-1.34	0.209	84.0	257.5	-4.2	0.224
4-3070	4-405C	0.680	31.8	14.3	0.82	1.295	59.7	0.768	3.022	71.4	182.4	---	5.343	-1.35	0.211	82.2	257.4	-4.3	0.224
4-3070	4-407C	0.672	32.3	14.6	0.86	1.295	60.2	0.766	3.033	70.4	182.9	---	5.357	-1.37	0.213	80.5	257.4	-4.3	0.224
4-3070	4-409C	0.665	32.9	14.9	0.90	1.296	60.6	0.765	3.045	69.3	183.5	---	5.372	-1.38	0.215	78.9	257.4	-4.3	0.224
4-3070	4-411C	0.657	33.4	15.2	0.94	1.296	61.1	0.763	3.057	68.3	184.0	---	5.389	-1.40	0.217	77.3	257.5	-4.3	0.224
4-3070	4-413C	0.650	34.0	15.5	0.99	1.297	61.5	0.761	3.069	67.3	184.6	---	5.406	-1.42	0.219	75.9	257.6	-4.3	0.225
4-3070	4-415C	0.642	34.6	15.8	1.03	1.297	62.0	0.760	3.082	66.2	185.1	---	5.424	-1.44	0.221	74.5	257.8	-4.4	0.225
4-3070	4-417C	0.635	35.2	16.1	1.07	1.298	62.4	0.759	3.095	65.2	185.6	---	5.443	-1.46	0.223	73.2	258.0	-4.4	0.226
4-3070	4-419C	0.627	35.8	16.4	1.12	1.299	62.9	0.757	3.109	64.1	186.1	---	5.463	-1.49	0.226	72.0	258.3	-4.4	0.227
4-3070	4-421C	0.620	36.4	16.8	1.17	1.299	63.4	0.756	3.123	63.0	186.6	---	5.483	-1.51	0.228	70.8	258.7	-4.4	0.227
4-3070	4-423C	0.612	37.1	17.1	1.22	1.300	63.8	0.755	3.137	62.0	187.1	---	5.504	-1.54	0.230	69.7	259.1	-4.5	0.228
4-3070	4-425C	0.605	37.7	17.5	1.27	1.300	64.3	0.754	3.151	60.9	187.5	---	5.526	-1.57	0.233	68.7	259.5	-4.5	0.229
4-3070	4-427C	0.597	38.4	17.8	1.33	1.301	64.7	0.752	3.166	59.8	188.0	---	5.548	-1.61	0.235	67.7	260.0	-4.5	0.230
4-3070	4-429C	0.590	39.0	18.2	1.38	1.301	65.2	0.751	3.181	58.7	188.4	---	5.570	-1.64	0.238	66.7	260.5	-4.6	0.231
4-3070	4-431C	0.583	39.7	18.6	1.44	1.302	65.7	0.750	3.196	57.6	188.9	---	5.593	-1.68	0.240	65.8	261.0	-4.6	0.232
4-3070	4-433C	0.575	40.4	19.0	1.50	1.302	66.1	0.749	3.211	56.5	189.3	---	5.617	-1.72	0.242	65.0	261.6	-4.7	0.233
4-3070	4-435C	0.568	41.1	19.4	1.57	1.303	66.6	0.748	3.226	55.4	189.8	---	5.640	-1.77	0.245	64.2	262.3	-4.7	0.234
4-3070	4-437C	0.561	41.9	19.8	1.64	1.304	67.1	0.747	3.241	54.3	190.2	---	5.664	-1.81	0.247	63.4	262.9	-4.8	0.235
4-3070	4-439C	0.553	42.6	20.3	1.71	1.304	67.6	0.747	3.257	53.2	190.6	---	5.689	-1.87	0.250	62.6	263.6	-4.8	0.236
4-3070	4-441C	0.546	43.4	20.7	1.78	1.305	68.0	0.746	3.273	52.1	191.1	---	5.713	-1.92	0.252	61.9	264.3	-4.9	0.237
4-3070	4-443C	0.539	44.1	21.2	1.86	1.305	68.5	0.745	3.288	51.0	191.5	---	5.738	-1.98	0.255	61.2	265.1	-4.9	0.238
4-3070	4-445C	0.532	44.9	21.7	1.95	1.306	69.0	0.744	3.304	49.9	191.9	---	5.763	-2.05	0.257	60.6	265.8	-5.0	0.239
4-3070	4-447C	0.525	45.7	22.2	2.04	1.306	69.4	0.743	3.320	48.7	192.3	---	5.788	-2.12	0.259	60.0	266.6	-5.0	0.240
4-3070	4-449C	0.518	46.6	22.8	2.14	1.307	69.9	0.743	3.336	47.6	192.7	---	5.813	-2.20	0.262	59.4	267.4	-5.1	0.241
4-3070	4-451C	0.511	47.4	23.3	2.25	1.307	70.4	0.742	3.352	46.5	193.1	---	5.839	-2.29	0.264	58.8	268.3	-5.2	0.242
4-3070	4-453C	0.504	48.3	24.0	2.36	1.308	70.9	0.742	3.367	45.3	193.4	---	5.865	-2.39	0.266	58.3	269.2	-5.3	0.243
4-3070	4-455C	0.497	49.1	24.6	2.49	1.309	71.4	0.741	3.383	44.2	193.8	---	5.891	-2.50	0.269	57.7	270.0	-5.4	0.244
4-3070	4-457C	0.490	50.0	25.3	2.62	1.309	71.8	0.741	3.399	43.1	194.2	---	5.917	-2.62	0.271	57.2	270.9	-5.5	0.245
4-3070	4-459C	0.484	50.9	26.0	2.78	1.310	72.3	0.740	3.415	41.9	194.6	---	5.943	-2.75	0.273	56.7	271.9	-5.6	0.246
4-3070	4-461C	0.477	51.9	26.8	2.94	1.310	72.8	0.740	3.431	40.8	194.9	---	5.969	-2.90	0.275	56.2	272.8	-5.7	0.247
4-3070	4-463C	0.471	52.8	27.7	3.13	1.311	73.3	0.739	3.447	39.6	195.3	---	5.996	-3.07	0.278	55.8	273.8	-5.9	0.249
4-3070	4-465C	0.465	53.8	28.6	3.34	1.311	73.8	0.739	3.463	38.5	195.7	---	6.022	-3.26	0.280	55.3	274.8	-6.1	0.250
4-3070	4-467C	0.459	54.7	29.6	3.57	1.312	74.2	0.739	3.479	37.3	196.0	---	6.049	-3.48	0.282	54.9	275.8	-6.2	0.251
4-3080	4-340C	1.102	27.6	10.9	-0.55	1.411	39.9	0.99143.159		100.8	148.1	---	---	-1.61	0.607	163.1	280.1	-3.5	0.623
4-3080	4-342C	1.080	27.3	10.8	-0.48	1.391	40.4	0.96712.507		101.6	150.6	---	---	-1.57	0.558	161.7	279.5	-3.5	0.578
4-3080	4-344C	1.061	27.0	10.8	-0.42	1.374	40.8	0.948	7.920	102.1	152.9	---	---	-1.53	0.515	160.2	278.9	-3.5	0.537
4-3080	4-346C	1.044	26.8	10.7	-0.36	1.360	41.3	0.933	6.087	102.5	155.0	---	---	-1.49	0.476	158.6	278.2	-3.6	0.502
4-3080	4-348C	1.028	26.7	10.8	-0.31	1.348	41.7	0.919	5.111	102.7	156.9	---	---	-1.46	0.441	156.8	277.5	-3.6	0.470
4-3080	4-350C	1.014	26.7	10.8	-0.26	1.339	42.1	0.908	4.511	102.7	158.6	---	---	-1.43	0.410	154.9	276.7	-3.6	0.442
4-3080	4-352C	1.001	26.7	10.8	-0.20	1.330	42.6	0.898	4.109	102.6	160.2	---	---	-1.40	0.382	152.9	275.9	-3.6	0.417
4-3080	4-354C	0.989	26.8	10.9	-0.16	1.324	43.0	0.889	3.825	102.4	161.7	---	---	-1.38	0.356	150.8	275.0	-3.7	0.395
4-3080	4-356C	0.978	26.9	11.0	-0.11	1.318	43.4	0.881	3.617	102.1	163.1	---	---	-1.36	0.334	148.5	274.0	-3.7	0.375
4-3080	4-358C	0.967	27.1	11.1	-0.07	1.313	43.9	0.874	3.459	101.7	164.4	---	---	-1.33	0.313	146.0	273.0	-3.7	0.358
4-3080	4-360C	0.956	27.3	11.2	-0.02	1.309	44.3	0.868	3.337	101.2	165.6	---	---	-1.31	0.295	143.5	272.0	-3.7	0.342
4-3080	4-362C	0.946	27.5	11.3	0.02	1.306	44.8	0.862	3.242	100.7	166.8	---	---	-1.30	0.279	140.8	270.9	-3.8	0.328
4-3080	4-364C	0.937	27.7	11.5	0.06	1.303	45.2	0.856	3.167	100.1	167.8	---	---	-1.28	0.264	137.9	269.9	-3.8	0.315
4-3080	4-366C	0.927	28.0	11.6	0.10	1.301	45.7	0.852	3.107	99.5	168.9	---	---	-1.27	0.252	135.0	268.8	-3.8	0.304
4-3080	4-368C	0.918	28.3	11.8	0.14	1.299	46.1	0.847	3.060	98.8	169.8	---	---	-1.25	0.240	131.9	267.7	-3.8	0.294
4-3080	4-370C	0.909	28.6	11.9	0.18	1.297	46.6	0.843	3.022	98.0	170.8	---	---	-1.24	0.231	128.8	266.7	-3.8	0.286
4-3080	4-372C	0.900	28.9	12.1	0.22	1.296	47.1	0.839	2.992	97.3	171.6	---	---	-1.23	0.222	125.6	265.7	-3.9	0.278
4-3080	4-374C	0.891	29.3	12.3	0.25	1.295	47.5	0.835	2.969	96.5	172.5	---	---	-1.22	0.215	122.3	264.7	-3.9	0.271
4-3080	4-376C	0.883	29.6	12.4	0.29	1.294	48.0	0.831	2.951	95.6	173.3	---	---	-1.21	0.209	119.0	263.7	-3.9	0.266
4-3080	4-378C	0.874	30.0	12.6	0.32	1.293	48.5	0.828	2.938	94.8	174.1	---	---	-1.21	0.204	115.7	262.8	-3.9	0.260
4-3080	4-380C	0.866	30.4	12.8	0.36	1.293	48.9	0.825	2.929	93.9	174.8	---	---	-1.20	0.200	112.5	261.9	-3.9	0.256
4-3080	4-382C	0.857	30.8	13.0	0.39	1.293	49.4	0.821	2.922	93.0	175.6	---	---	-1.20	0.197	109.3	261.1	-3.9	0.252
4-3080	4-384C	0.849	31.2	13.2	0.43	1.293	49.9	0.818	2.919	92.1	176.3	---	---	-1.19	0.194	106.2	260.4	-3.9	0.249
4-3080	4-386C	0.840	31.6	13.4	0.46	1.293	50.4	0.816	2.918	91.1	177.0	---	---	-1.19	0.193	103.1	259.7	-3.9	0.246
4-3080	4-388C	0.832	32.0	13.6	0.49	1.293	50.8	0.813	2.919	90.2	177.6	---	---	-1.19	0.192	100.2	259.1	-3.9	0.244
4-3080	4-390C	0.824	32.5	13.8	0.53	1.293	51.3	0.810	2.922	89.2	178.3	---	---	-1.19	0.191	97.3	258.5	-3.9	0.242
4-3080	4-392C	0.815	32.9	14.0	0.56	1.293	51.8	0.807	2.927	88.2	178.9	---	---	-1.19	0.192	94.6	258.1	-3.9	0.240
4-3080	4-394C	0.807	33.4	14.2	0.59	1.293	52.3	0.805	2.933	87.2	179.5	---	---	-1.19	0.192	92.1	257.7	-3.9	0.239
4-3080	4-396C	0.799	33.9	14.4	0.63	1.294	52.7	0.803	2.940	86.2	180.1	---	5.299	-1.19	0.193	89.6	257.3	-4.0	0.238
4-3080	4-398C	0.791	34.3	14.7	0.66	1.294	53.2	0.800	2.948	85.2	180.7	---	5.307	-1.19	0.194	87.3	257.1	-4.0	0.237
4-3080	4-400C	0.782	34.8	14.9	0.69	1.294	53.7	0.798	2.957	84.2	181.2	---	5.317	-1.19	0.196	85.1	256.9	-4.0	0.237
4-3080	4-402C	0.774	35.3	15.1	0.73	1.295	54.2	0.796	2.967	83.1	181.8	---	5.329	-1.20	0.198	83.1	256.7	-4.0	0.236
4-3080	4-404C	0.766	35.8	15.4	0.76	1.295	54.7	0.794	2.978	82.1	182.3	---	5.342	-1.20	0.200	81.1	256.7	-4.0	0.236
4-3080	4-406C	0.758	36.4	15.6	0.80	1.296	55.2	0.792	2.990	81.0	182.9	---	5.356	-1.21	0.202	79.3	256.7	-4.0	0.236
4-3080	4-408C	0.750	36.9	15.8	0.83	1.296	55.6	0.790	3.002	80.0	183.4	---	5.372	-1.22	0.204	77.6	256.7	-4.0	0.236
4-3080	4-410C	0.742	37.4	16.1	0.86	1.297	56.1	0.788	3.014	78.9	183.9	---	5.389	-1.23	0.206	76.0	256.9	-4.0	0.236
4-3080	4-412C	0.734	38.0	16.3	0.90	1.297	56.6	0.786	3.027	77.8	184.4	---	5.407	-1.24	0.209	74.5	257.0	-4.0	0.236
4-3080	4-414C	0.725	38.5	16.6	0.93	1.298	57.1	0.784	3.041	76.8	184.9	---	5.425	-1.25	0.211	73.0	257.3	-4.1	0.237
4-3080	4-416C	0.717	39.1	16.8	0.97	1.299	57.6	0.782	3.055	75.7	185.4	---	5.445	-1.26	0.214	71.7	257.5	-4.1	0.237
4-3080	4-418C	0.709	39.6	17.1	1.01	1.299	58.1	0.781	3.069	74.6	185.8	---	5.465	-1.27	0.217	70.4	257.9	-4.1	0.238
4-3080	4-420C	0.701	40.2	17.4	1.05	1.300	58.6	0.779	3.084	73.5	186.3	---	5.486	-1.29	0.219	69.3	258.2	-4.1	0.238
4-3080	4-422C	0.693	40.8	17.7	1.08	1.300	59.0	0.777	3.099	72.4	186.8	---	5.507	-1.30	0.222	68.1	258.6	-4.1	0.239
4-3080	4-424C	0.685	41.4	17.9	1.12	1.301	59.5	0.776	3.114	71.3	187.2	---	5.529	-1.32	0.225	67.1	259.1	-4.2	0.239
4-3080	4-426C	0.677	42.0	18.2	1.16	1.301	60.0	0.774	3.129	70.2	187.7	---	5.551	-1.34	0.227	66.1	259.6	-4.2	0.240

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3080	4-4280	0.669	42.6	18.5	1.20	1.302	60.5	0.773	3.144	69.1	188.1	---	5.574	-1.36	0.230	65.1	260.1	-4.2	0.241
4-3080	4-4300	0.661	43.3	18.8	1.25	1.303	61.0	0.771	3.160	68.0	188.5	---	5.597	-1.38	0.233	64.2	260.7	-4.2	0.241
4-3080	4-4320	0.653	43.9	19.1	1.29	1.303	61.5	0.770	3.176	66.9	189.0	---	5.621	-1.40	0.236	63.4	261.3	-4.2	0.242
4-3080	4-4340	0.645	44.6	19.4	1.34	1.304	62.0	0.768	3.192	65.7	189.4	---	5.645	-1.42	0.238	62.6	261.9	-4.3	0.243
4-3080	4-4360	0.637	45.2	19.7	1.38	1.305	62.5	0.767	3.208	64.6	189.8	---	5.669	-1.45	0.241	61.8	262.6	-4.3	0.244
4-3080	4-4380	0.629	45.9	20.0	1.43	1.305	62.9	0.766	3.224	63.5	190.2	---	5.693	-1.48	0.244	61.1	263.3	-4.3	0.245
4-3080	4-4400	0.621	46.6	20.4	1.48	1.306	63.4	0.765	3.240	62.4	190.6	---	5.718	-1.51	0.246	60.4	264.0	-4.4	0.245
4-3080	4-4420	0.614	47.3	20.7	1.53	1.306	63.9	0.763	3.257	61.2	191.0	---	5.743	-1.54	0.249	59.8	264.8	-4.4	0.246
4-3080	4-4440	0.606	48.0	21.1	1.59	1.307	64.4	0.762	3.273	60.1	191.4	---	5.768	-1.58	0.251	59.1	265.5	-4.4	0.247
4-3080	4-4460	0.598	48.7	21.4	1.65	1.307	64.9	0.761	3.289	59.0	191.8	---	5.793	-1.62	0.254	58.6	266.3	-4.5	0.248
4-3080	4-4480	0.590	49.5	21.8	1.71	1.308	65.4	0.760	3.306	57.8	192.2	---	5.819	-1.66	0.257	58.0	267.2	-4.5	0.249
4-3080	4-4500	0.583	50.2	22.2	1.77	1.309	65.9	0.759	3.322	56.7	192.6	---	5.844	-1.70	0.259	57.4	268.0	-4.6	0.250
4-3080	4-4520	0.575	51.0	22.6	1.84	1.309	66.4	0.758	3.339	55.6	193.0	---	5.870	-1.75	0.262	56.9	268.9	-4.6	0.250
4-3080	4-4540	0.567	51.8	23.0	1.91	1.310	66.8	0.757	3.355	54.4	193.3	---	5.896	-1.80	0.264	56.4	269.7	-4.6	0.251
4-3080	4-4560	0.560	52.6	23.4	1.98	1.310	67.3	0.756	3.372	53.3	193.7	---	5.922	-1.86	0.267	55.9	270.7	-4.7	0.252
4-3080	4-4580	0.552	53.4	23.9	2.06	1.311	67.8	0.756	3.388	52.1	194.1	---	5.948	-1.92	0.269	55.5	271.6	-4.7	0.253
4-3080	4-4600	0.545	54.3	24.3	2.15	1.311	68.3	0.755	3.405	51.0	194.4	---	5.974	-1.99	0.271	55.0	272.5	-4.8	0.254
4-3080	4-4620	0.537	55.1	24.8	2.24	1.312	68.8	0.754	3.421	49.8	194.8	---	6.001	-2.07	0.274	54.6	273.5	-4.9	0.255
4-3080	4-4640	0.530	56.0	25.3	2.34	1.312	69.3	0.753	3.438	48.7	195.2	---	6.027	-2.15	0.276	54.2	274.5	-4.9	0.256
4-3080	4-4660	0.522	56.9	25.9	2.44	1.313	69.8	0.752	3.454	47.5	195.5	---	6.053	-2.24	0.278	53.8	275.4	-5.0	0.257
4-3080	4-4680	0.515	57.8	26.5	2.56	1.314	70.3	0.752	3.471	46.3	195.9	---	6.080	-2.34	0.281	53.4	276.4	-5.1	0.258
4-3090	4-3410	1.226	30.6	12.1	-0.62	1.403	32.4	0.98619.484		116.5	154.7	---	---	-1.73	0.584	165.5	277.8	-3.4	0.623
4-3090	4-3430	1.201	30.5	12.1	-0.54	1.383	33.0	0.970	9.488	116.7	156.7	---	---	-1.67	0.535	164.1	277.1	-3.5	0.578
4-3090	4-3450	1.179	30.4	12.1	-0.46	1.367	33.7	0.957	6.694	116.8	158.4	---	---	-1.61	0.491	162.6	276.4	-3.5	0.539
4-3090	4-3470	1.160	30.4	12.1	-0.39	1.354	34.3	0.946	5.394	116.7	160.0	---	---	-1.56	0.453	161.0	275.7	-3.5	0.504
4-3090	4-3490	1.142	30.5	12.2	-0.33	1.343	34.9	0.936	4.650	116.4	161.5	---	---	-1.51	0.418	159.2	274.9	-3.5	0.474
4-3090	4-3510	1.126	30.6	12.3	-0.26	1.334	35.4	0.927	4.175	116.1	162.8	---	---	-1.47	0.387	157.3	274.0	-3.6	0.447
4-3090	4-3530	1.111	30.8	12.3	-0.21	1.326	36.0	0.919	3.848	115.6	164.1	---	---	-1.43	0.359	155.3	273.1	-3.6	0.423
4-3090	4-3550	1.097	30.9	12.5	-0.15	1.320	36.6	0.912	3.614	115.1	165.3	---	---	-1.40	0.334	153.1	272.1	-3.6	0.401
4-3090	4-3570	1.084	31.2	12.6	-0.10	1.314	37.1	0.906	3.440	114.5	166.4	---	---	-1.36	0.311	150.7	271.2	-3.6	0.382
4-3090	4-3590	1.071	31.4	12.7	-0.05	1.310	37.7	0.900	3.307	113.9	167.4	---	---	-1.33	0.291	148.1	270.1	-3.6	0.366
4-3090	4-3610	1.059	31.7	12.8	-0.00	1.306	38.3	0.894	3.205	113.2	168.4	---	---	-1.31	0.273	145.4	269.1	-3.6	0.351
4-3090	4-3630	1.048	32.0	13.0	0.05	1.303	38.8	0.889	3.124	112.4	169.3	---	---	-1.28	0.257	142.5	268.1	-3.7	0.337
4-3090	4-3650	1.036	32.3	13.1	0.09	1.301	39.3	0.884	3.061	111.6	170.2	---	---	-1.26	0.242	139.5	267.0	-3.7	0.325
4-3090	4-3670	1.026	32.6	13.3	0.13	1.299	39.9	0.880	3.011	110.8	171.0	---	---	-1.24	0.230	136.3	266.0	-3.7	0.315
4-3090	4-3690	1.015	33.0	13.4	0.17	1.297	40.4	0.875	2.972	110.0	171.8	---	---	-1.22	0.219	132.9	265.0	-3.7	0.306
4-3090	4-3710	1.005	33.3	13.6	0.21	1.296	41.0	0.871	2.941	109.1	172.6	---	---	-1.20	0.209	129.5	264.0	-3.7	0.298
4-3090	4-3730	0.995	33.7	13.8	0.25	1.295	41.5	0.867	2.917	108.2	173.4	---	---	-1.18	0.201	125.9	263.1	-3.7	0.290
4-3090	4-3750	0.985	34.1	13.9	0.29	1.294	42.1	0.864	2.899	107.2	174.1	---	---	-1.17	0.194	122.3	262.2	-3.7	0.284
4-3090	4-3770	0.975	34.5	14.1	0.32	1.293	42.6	0.860	2.885	106.3	174.8	---	---	-1.15	0.189	118.6	261.3	-3.7	0.279
4-3090	4-3790	0.966	34.9	14.3	0.36	1.293	43.1	0.856	2.876	105.3	175.4	---	---	-1.14	0.184	115.0	260.5	-3.7	0.274
4-3090	4-3810	0.956	35.3	14.5	0.39	1.292	43.7	0.853	2.870	104.3	176.1	---	---	-1.13	0.181	111.3	259.8	-3.7	0.270
4-3090	4-3830	0.947	35.8	14.6	0.42	1.292	44.2	0.850	2.867	103.3	176.7	---	---	-1.12	0.178	107.8	259.1	-3.7	0.266
4-3090	4-3850	0.937	36.2	14.8	0.46	1.292	44.7	0.847	2.866	102.3	177.3	---	---	-1.11	0.177	104.3	258.5	-3.7	0.263
4-3090	4-3870	0.928	36.6	15.0	0.49	1.292	45.3	0.844	2.868	101.3	177.9	---	---	-1.10	0.176	101.0	258.0	-3.7	0.260
4-3090	4-3890	0.919	37.1	15.2	0.52	1.292	45.8	0.841	2.871	100.3	178.5	---	---	-1.10	0.176	97.8	257.5	-3.7	0.258
4-3090	4-3910	0.910	37.5	15.4	0.55	1.293	46.3	0.838	2.876	99.2	179.1	---	---	-1.09	0.176	94.7	257.1	-3.7	0.256
4-3090	4-3930	0.901	38.0	15.6	0.58	1.293	46.8	0.835	2.883	98.2	179.6	---	---	-1.08	0.177	91.9	256.7	-3.7	0.255
4-3090	4-3950	0.892	38.5	15.8	0.61	1.293	47.4	0.832	2.890	97.1	180.2	---	5.296	-1.08	0.178	89.1	256.5	-3.7	0.253
4-3090	4-3970	0.883	39.0	16.0	0.64	1.294	47.9	0.830	2.899	96.0	180.7	---	5.304	-1.08	0.180	86.6	256.3	-3.7	0.252
4-3090	4-3990	0.874	39.4	16.2	0.67	1.294	48.4	0.827	2.909	95.0	181.2	---	5.315	-1.07	0.182	84.1	256.1	-3.8	0.251
4-3090	4-4010	0.865	39.9	16.4	0.70	1.295	48.9	0.824	2.920	93.9	181.7	---	5.327	-1.07	0.184	81.9	256.0	-3.8	0.251
4-3090	4-4030	0.856	40.4	16.6	0.73	1.295	49.5	0.822	2.931	92.8	182.2	---	5.341	-1.07	0.186	79.8	256.0	-3.8	0.250
4-3090	4-4050	0.848	40.9	16.8	0.76	1.296	50.0	0.820	2.943	91.7	182.7	---	5.356	-1.07	0.189	77.8	256.1	-3.8	0.250
4-3090	4-4070	0.839	41.5	17.0	0.79	1.296	50.5	0.817	2.956	90.6	183.2	---	5.372	-1.07	0.191	76.0	256.2	-3.8	0.250
4-3090	4-4090	0.830	42.0	17.2	0.82	1.297	51.0	0.815	2.969	89.5	183.7	---	5.389	-1.08	0.194	74.3	256.3	-3.8	0.250
4-3090	4-4110	0.821	42.5	17.4	0.85	1.297	51.5	0.813	2.983	88.4	184.2	---	5.407	-1.08	0.197	72.7	256.5	-3.8	0.250
4-3090	4-4130	0.813	43.0	17.6	0.88	1.298	52.1	0.810	2.997	87.3	184.6	---	5.427	-1.08	0.200	71.2	256.8	-3.8	0.250
4-3090	4-4150	0.804	43.6	17.9	0.91	1.299	52.6	0.808	3.012	86.2	185.1	---	5.446	-1.09	0.203	69.8	257.1	-3.8	0.250
4-3090	4-4170	0.795	44.1	18.1	0.94	1.299	53.1	0.806	3.027	85.1	185.5	---	5.467	-1.09	0.206	68.5	257.4	-3.8	0.250
4-3090	4-4190	0.787	44.7	18.3	0.97	1.300	53.6	0.804	3.042	84.0	186.0	---	5.488	-1.10	0.209	67.3	257.8	-3.8	0.251
4-3090	4-4210	0.778	45.2	18.5	1.00	1.301	54.1	0.802	3.057	82.8	186.4	---	5.510	-1.10	0.212	66.2	258.3	-3.9	0.251
4-3090	4-4230	0.769	45.8	18.8	1.03	1.301	54.6	0.800	3.073	81.7	186.8	---	5.532	-1.11	0.215	65.1	258.7	-3.9	0.251
4-3090	4-4250	0.761	46.4	19.0	1.07	1.302	55.1	0.798	3.089	80.6	187.3	---	5.555	-1.12	0.219	64.1	259.3	-3.9	0.252
4-3090	4-4270	0.752	47.0	19.2	1.10	1.303	55.6	0.797	3.105	79.5	187.7	---	5.578	-1.13	0.222	63.2	259.8	-3.9	0.252
4-3090	4-4290	0.744	47.6	19.5	1.13	1.303	56.2	0.795	3.121	78.3	188.1	---	5.602	-1.14	0.225	62.3	260.4	-3.9	0.253
4-3090	4-4310	0.735	48.2	19.7	1.16	1.304	56.7	0.793	3.138	77.2	188.5	---	5.626	-1.15	0.228	61.4	261.0	-3.9	0.253
4-3090	4-4330	0.727	48.8	19.9	1.20	1.304	57.2	0.791	3.154	76.1	188.9	---	5.650	-1.16	0.231	60.7	261.7	-4.0	0.254
4-3090	4-4350	0.718	49.4	20.2	1.23	1.305	57.7	0.790	3.171	74.9	189.3	---	5.675	-1.18	0.234	59.9	262.3	-4.0	0.255
4-3090	4-4370	0.710	50.0	20.4	1.27	1.306	58.2	0.788	3.188	73.8	189.7	---	5.699	-1.19	0.237	59.2	263.0	-4.0	0.255
4-3090	4-4390	0.701	50.7	20.7	1.30	1.306	58.7	0.786	3.205	72.6	190.1	---	5.724	-1.21	0.239	58.6	263.8	-4.0	0.256
4-3090	4-4410	0.693	51.3	20.9	1.34	1.307	59.2	0.785	3.221	71.5	190.5	---	5.750	-1.23	0.242	57.9	264.5	-4.0	0.256
4-3090	4-4430	0.685	52.0	21.2	1.38	1.308	59.7	0.783	3.238	70.4	190.9	---	5.775	-1.24	0.245	57.3	265.3	-4.1	0.257
4-3090	4-4450	0.676	52.6	21.5	1.42	1.308	60.2	0.782	3.255	69.2	191.3	---	5.800	-1.27	0.248	56.8	266.1	-4.1	0.258
4-3090	4-4470	0.668	53.3	21.7	1.46	1.309	60.7	0.780	3.272	68.1	191.7	---	5.826	-1.29	0.251	56.2	266.9	-4.1	0.258
4-3090	4-4490	0.660	54.0	22.0	1.50	1.309	61.2	0.779	3.289	66.9	192.0	---	5.852	-1.31	0.253	55.7	267.8	-4.1	0.259
4-3090	4-4510	0.651	54.7	22.3	1.54	1.310	61.7	0.778	3.307	65.8	192.4	---	5.878	-1.34	0.256	55.2	268.6	-4.1	0.260
4-3090	4-4530	0.643	55.4	22.6	1.59	1.311	62.2	0.776	3.324	64.6	192.8	---	5.904	-1.36	0.259	54.8	269.5	-4.2	0.260
4-3090	4-4550	0.635	56.1	22.9	1.63	1.311	62.7	0.775	3.341	63.5	193.1	---	5.930	-1.39	0.261	54.3	270.4	-4.2	0.261
4-3090	4-4570	0.627	56.9	23.2	1.68	1.312	63.3	0.774	3.358	62.3	193.5	---	5.956	-1.42	0.264	53.9	271.4	-4.2	0.262

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3090	4-4590	0.619	57.6	23.5	1.73	1.312	63.8	0.773	3.375	61.2	193.9	---	5.982	-1.46	0.267	53.5	272.3	-4.3	0.262
4-3090	4-4610	0.610	58.4	23.8	1.79	1.313	64.3	0.771	3.392	60.0	194.2	---	6.009	-1.50	0.269	53.1	273.3	-4.3	0.263
4-3090	4-4630	0.602	59.2	24.1	1.84	1.314	64.8	0.770	3.409	58.8	194.6	---	6.035	-1.54	0.272	52.7	274.2	-4.3	0.264
4-3090	4-4650	0.594	60.0	24.5	1.90	1.314	65.3	0.769	3.426	57.7	194.9	---	6.061	-1.58	0.274	52.3	275.2	-4.3	0.265
4-3090	4-4670	0.586	60.8	24.8	1.97	1.315	65.8	0.768	3.443	56.5	195.3	---	6.088	-1.63	0.277	52.0	276.2	-4.4	0.265
4-3090	4-4690	0.578	61.7	25.2	2.03	1.315	66.3	0.767	3.460	55.3	195.6	---	6.114	-1.68	0.279	51.7	277.2	-4.4	0.266
4-3100	4-3420	1.350	34.2	13.4	-0.75	1.396	24.7	0.9881	3.471	132.2	161.2	---	---	-1.91	0.563	168.4	275.4	-3.4	0.628
4-3100	4-3440	1.323	34.3	13.4	-0.64	1.377	25.5	0.978	7.912	131.8	162.5	---	---	-1.81	0.515	167.1	274.7	-3.4	0.584
4-3100	4-3460	1.298	34.4	13.5	-0.54	1.362	26.3	0.969	5.928	131.2	163.7	---	---	-1.73	0.471	165.7	273.9	-3.4	0.546
4-3100	4-3480	1.276	34.5	13.6	-0.44	1.349	27.1	0.962	4.920	130.6	164.8	---	---	-1.65	0.432	164.1	273.1	-3.4	0.512
4-3100	4-3500	1.256	34.7	13.7	-0.36	1.339	27.9	0.955	4.318	129.9	165.8	---	---	-1.58	0.397	162.4	272.3	-3.5	0.482
4-3100	4-3520	1.238	35.0	13.8	-0.28	1.330	28.6	0.948	3.923	129.2	166.8	---	---	-1.52	0.366	160.5	271.4	-3.5	0.456
4-3100	4-3540	1.221	35.2	13.9	-0.21	1.323	29.3	0.942	3.647	128.4	167.7	---	---	-1.46	0.338	158.4	270.4	-3.5	0.433
4-3100	4-3560	1.205	35.5	14.1	-0.15	1.316	30.0	0.937	3.446	127.6	168.5	---	---	-1.41	0.313	156.2	269.4	-3.5	0.412
4-3100	4-3580	1.190	35.8	14.2	-0.09	1.311	30.7	0.931	3.297	126.7	169.4	---	---	-1.37	0.290	153.8	268.4	-3.5	0.394
4-3100	4-3600	1.176	36.2	14.3	-0.03	1.307	31.4	0.926	3.182	125.8	170.1	---	---	-1.33	0.269	151.1	267.5	-3.5	0.377
4-3100	4-3620	1.162	36.5	14.5	0.03	1.304	32.0	0.921	3.094	124.9	170.9	---	---	-1.29	0.251	148.3	266.4	-3.5	0.363
4-3100	4-3640	1.150	36.9	14.6	0.08	1.301	32.7	0.917	3.025	123.9	171.6	---	---	-1.25	0.235	145.2	265.5	-3.5	0.350
4-3100	4-3660	1.137	37.3	14.8	0.12	1.299	33.3	0.912	2.971	123.0	172.3	---	---	-1.22	0.220	141.9	264.5	-3.5	0.339
4-3100	4-3680	1.125	37.7	15.0	0.17	1.297	34.0	0.908	2.928	122.0	173.0	---	---	-1.19	0.208	138.4	263.5	-3.5	0.329
4-3100	4-3700	1.113	38.1	15.1	0.21	1.295	34.6	0.904	2.895	121.0	173.6	---	---	-1.16	0.197	134.7	262.6	-3.5	0.320
4-3100	4-3720	1.102	38.5	15.3	0.26	1.294	35.2	0.900	2.869	119.9	174.2	---	---	-1.14	0.187	130.9	261.7	-3.6	0.312
4-3100	4-3740	1.091	38.9	15.5	0.29	1.293	35.8	0.896	2.850	118.9	174.8	---	---	-1.12	0.179	126.9	260.9	-3.6	0.305
4-3100	4-3760	1.080	39.3	15.6	0.33	1.293	36.5	0.893	2.836	117.8	175.4	---	---	-1.10	0.173	122.8	260.1	-3.6	0.299
4-3100	4-3780	1.069	39.8	15.8	0.37	1.292	37.1	0.889	2.826	116.8	176.0	---	---	-1.08	0.167	118.6	259.4	-3.6	0.294
4-3100	4-3800	1.058	40.2	16.0	0.40	1.292	37.7	0.885	2.819	115.7	176.6	---	---	-1.06	0.163	114.5	258.7	-3.6	0.290
4-3100	4-3820	1.048	40.7	16.1	0.44	1.292	38.3	0.882	2.816	114.6	177.1	---	---	-1.04	0.161	110.4	258.1	-3.6	0.286
4-3100	4-3840	1.038	41.1	16.3	0.47	1.292	38.9	0.879	2.816	113.5	177.7	---	---	-1.03	0.159	106.3	257.5	-3.6	0.282
4-3100	4-3860	1.028	41.6	16.5	0.50	1.292	39.5	0.875	2.817	112.4	178.2	---	---	-1.02	0.158	102.4	257.0	-3.5	0.279
4-3100	4-3880	1.018	42.1	16.7	0.53	1.292	40.0	0.872	2.821	111.3	178.7	---	---	-1.00	0.158	98.7	256.6	-3.5	0.276
4-3100	4-3900	1.008	42.6	16.8	0.56	1.292	40.6	0.869	2.826	110.2	179.2	---	---	-0.99	0.158	95.2	256.3	-3.5	0.274
4-3100	4-3920	0.998	43.0	17.0	0.59	1.292	41.2	0.866	2.833	109.1	179.7	---	---	-0.98	0.159	91.8	256.0	-3.5	0.272
4-3100	4-3940	0.988	43.5	17.2	0.62	1.293	41.8	0.863	2.841	108.0	180.2	---	5.293	-0.97	0.161	88.7	255.8	-3.6	0.271
4-3100	4-3960	0.978	44.0	17.4	0.65	1.293	42.3	0.860	2.850	106.9	180.7	---	5.301	-0.96	0.163	85.8	255.6	-3.6	0.269
4-3100	4-3980	0.969	44.5	17.5	0.68	1.294	42.9	0.857	2.860	105.8	181.2	---	5.312	-0.96	0.165	83.0	255.5	-3.6	0.268
4-3100	4-4000	0.959	45.0	17.7	0.71	1.294	43.5	0.854	2.871	104.6	181.6	---	5.325	-0.95	0.168	80.5	255.5	-3.6	0.267
4-3100	4-4020	0.950	45.5	17.9	0.73	1.295	44.1	0.852	2.883	103.5	182.1	---	5.339	-0.94	0.171	78.2	255.5	-3.6	0.266
4-3100	4-4040	0.940	46.0	18.1	0.76	1.295	44.6	0.849	2.896	102.4	182.5	---	5.354	-0.94	0.174	76.0	255.6	-3.6	0.266
4-3100	4-4060	0.931	46.5	18.3	0.79	1.296	45.2	0.846	2.909	101.2	183.0	---	5.371	-0.94	0.177	74.1	255.7	-3.6	0.265
4-3100	4-4080	0.921	47.0	18.5	0.81	1.297	45.7	0.844	2.923	100.1	183.4	---	5.389	-0.93	0.181	72.2	255.9	-3.6	0.265
4-3100	4-4100	0.912	47.6	18.6	0.84	1.297	46.3	0.841	2.937	99.0	183.9	---	5.408	-0.93	0.184	70.5	256.1	-3.6	0.265
4-3100	4-4120	0.903	48.1	18.8	0.86	1.298	46.8	0.839	2.952	97.8	184.3	---	5.428	-0.93	0.187	69.0	256.4	-3.6	0.265
4-3100	4-4140	0.893	48.6	19.0	0.89	1.299	47.4	0.836	2.967	96.7	184.7	---	5.448	-0.93	0.191	67.5	256.8	-3.6	0.265
4-3100	4-4160	0.884	49.1	19.2	0.91	1.299	47.9	0.834	2.982	95.5	185.2	---	5.469	-0.93	0.194	66.2	257.1	-3.6	0.265
4-3100	4-4180	0.875	49.7	19.4	0.94	1.300	48.5	0.831	2.998	94.4	185.6	---	5.491	-0.93	0.198	64.9	257.5	-3.6	0.265
4-3100	4-4200	0.866	50.2	19.6	0.96	1.301	49.0	0.829	3.014	93.2	186.0	---	5.513	-0.93	0.201	63.8	258.0	-3.6	0.265
4-3100	4-4220	0.857	50.8	19.8	0.99	1.301	49.6	0.827	3.030	92.1	186.4	---	5.536	-0.93	0.205	62.7	258.5	-3.6	0.265
4-3100	4-4240	0.848	51.3	19.9	1.02	1.302	50.1	0.825	3.047	90.9	186.8	---	5.559	-0.93	0.208	61.7	259.0	-3.7	0.265
4-3100	4-4260	0.839	51.9	20.1	1.04	1.303	50.6	0.822	3.064	89.8	187.2	---	5.583	-0.93	0.212	60.7	259.6	-3.7	0.266
4-3100	4-4280	0.830	52.5	20.3	1.07	1.303	51.2	0.820	3.080	88.7	187.6	---	5.607	-0.94	0.215	59.9	260.2	-3.7	0.266
4-3100	4-4300	0.821	53.0	20.5	1.09	1.304	51.7	0.818	3.097	87.5	188.0	---	5.631	-0.94	0.219	59.1	260.8	-3.7	0.266
4-3100	4-4320	0.812	53.6	20.7	1.12	1.305	52.3	0.816	3.114	86.3	188.4	---	5.656	-0.95	0.222	58.3	261.5	-3.7	0.267
4-3100	4-4340	0.803	54.2	20.9	1.14	1.305	52.8	0.814	3.132	85.2	188.8	---	5.681	-0.95	0.225	57.6	262.2	-3.7	0.267
4-3100	4-4360	0.794	54.8	21.1	1.17	1.306	53.3	0.812	3.149	84.0	189.1	---	5.706	-0.96	0.228	56.9	262.9	-3.7	0.267
4-3100	4-4380	0.785	55.4	21.3	1.20	1.307	53.8	0.810	3.166	82.9	189.5	---	5.732	-0.97	0.232	56.3	263.6	-3.7	0.268
4-3100	4-4400	0.776	56.0	21.5	1.22	1.307	54.4	0.808	3.184	81.7	189.9	---	5.757	-0.97	0.235	55.7	264.4	-3.8	0.268
4-3100	4-4420	0.767	56.6	21.7	1.25	1.308	54.9	0.806	3.201	80.6	190.3	---	5.783	-0.98	0.238	55.1	265.2	-3.8	0.269
4-3100	4-4440	0.758	57.3	21.9	1.28	1.309	55.4	0.805	3.219	79.4	190.7	---	5.809	-0.99	0.241	54.6	266.0	-3.8	0.269
4-3100	4-4460	0.749	57.9	22.1	1.31	1.309	56.0	0.803	3.236	78.3	191.0	---	5.835	-1.00	0.244	54.1	266.8	-3.8	0.270
4-3100	4-4480	0.741	58.5	22.3	1.34	1.310	56.5	0.801	3.254	77.1	191.4	---	5.861	-1.02	0.247	53.6	267.7	-3.8	0.270
4-3100	4-4500	0.732	59.2	22.5	1.37	1.311	57.0	0.799	3.271	75.9	191.7	---	5.887	-1.03	0.250	53.2	268.5	-3.8	0.270
4-3100	4-4520	0.723	59.9	22.7	1.40	1.311	57.5	0.798	3.289	74.8	192.1	---	5.913	-1.04	0.253	52.7	269.4	-3.8	0.271
4-3100	4-4540	0.714	60.5	23.0	1.43	1.312	58.0	0.796	3.307	73.6	192.5	---	5.939	-1.06	0.256	52.3	270.3	-3.9	0.271
4-3100	4-4560	0.706	61.2	23.2	1.46	1.312	58.6	0.795	3.324	72.5	192.8	---	5.966	-1.07	0.258	51.9	271.2	-3.9	0.272
4-3100	4-4580	0.697	61.9	23.4	1.50	1.313	59.1	0.793	3.342	71.3	193.2	---	5.992	-1.09	0.261	51.6	272.2	-3.9	0.272
4-3100	4-4600	0.688	62.6	23.6	1.53	1.314	59.6	0.792	3.359	70.1	193.5	---	6.019	-1.11	0.264	51.2	273.1	-3.9	0.273
4-3100	4-4620	0.680	63.3	23.9	1.57	1.314	60.1	0.790	3.377	69.0	193.9	---	6.045	-1.13	0.267	50.9	274.1	-3.9	0.273
4-3100	4-4640	0.671	64.0	24.1	1.60	1.315	60.6	0.789	3.395	67.8	194.2	---	6.072	-1.15	0.269	50.6	275.1	-3.9	0.274
4-3100	4-4660	0.663	64.8	24.3	1.64	1.315	61.2	0.787	3.412	66.6	194.6	---	6.098	-1.17	0.272	50.2	276.1	-3.9	0.275
4-3100	4-4680	0.654	65.5	24.6	1.68	1.316	61.7	0.786	3.430	65.5	194.9	---	6.125	-1.20	0.274	49.9	277.1	-4.0	0.275
4-3100	4-4700	0.646	66.3	24.8	1.72	1.317	62.2	0.785	3.447	64.3	195.2	---	6.151	-1.23	0.277	49.7	278.1	-4.0	0.276
DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3300	4-3700	0.907	64.7	21.0	-0.31	1.423	128.8	1.03319	-061	283.9	497.1	0.623	---	-1.03	0.661	160.9	311.0	-2.7	0.643
4-3300	4-3720	0.875	64.4	20.9	-0.36	1.403	127.7	0.99819	-815	284.5	499.3	0.634	---	-0.99	0.617	159.5	311.2	-2.7	0.599
4-3300	4-3740	0.847	64.1	20.8	-0.41	1.386	126.8	0.96819	-939	285.0	501.5	0.645	---	-0.95	0.577	158.1	311.3	-2.7	0.559
4-3300	4-3760	0.823	63.8	20.6	-0.45	1.371	126.0	0.94111	-101	285.4	503.6	0.654	---	-0.92	0.541	156.5	311.3	-2.7	0.524
4-3300	4-3780	0.802	63.6	20.5	-0.50	1.359	125.2	0.918	8.055	285.8	505.6	0.662	---	-0.89	0.508	154.9	311.2	-2.7	0.491
4-3300	4-3800	0.783	63.4	20.4	-0.53	1.348	124.6	0.897	6.522	286.2	507.6	0.669	---	-0.86	0.478	153.3	311.0	-2.7	0.461
4-3300	4-3820	0.767	63.2	20.3	-0.57	1.339	124.0	0.880	5.606	286.5	509.6	0.675	---	-0.83	0.450	151.5	310.7	-2.7	0.434
4-3300	4-3840	0.753	63.1	20.2	-0.60	1.331	123.5	0.864	5.000	286.7	511.5	0.680	---	-0.81	0.425	149.7	310.4	-2.8	0.410
4-3300	4-3860	0.741	63.0	20.2	-0.63	1.324	123.1	0.850	4.573	286.9	513.3	0.684	---	-0.78	0.402	147.8	309.9	-2.8	0.387
4-3300	4-3880	0.731	62.9	20.1	-0.66	1.318	122.7	0.838	4.259	287.1	515.0	0.688	---	-0.76	0.380	145.9	309.3	-2.8	0.367
4-3300	4-3900	0.722	62.8	20.0	-0.69	1.312	122.4	0.828	4.019	287.2	516.7	0.691	---	-0.74	0.361	143.8	308.7	-2.9	0.348
4-3300	4-3920	0.715	62.8	20.0	-0.72	1.308	122.2	0.819	3.832	287.2	518.4	0.693	---	-0.73	0.343	141.7	307.9	-2.9	0.331
4-3300	4-3940	0.709	62.9	19.9	-0.75	1.304	122.0	0.811	3.683	287.2	520.0	0.694	---	-0.71	0.326	139.5	307.0	-2.9	0.316
4-3300	4-3960	0.705	62.9	19.9	-0.77	1.300	121.9	0.805	3.562	287.1	521.5	0.695	---	-0.70	0.311	137.2	306.1	-3.0	0.302
4-3300	4-3980	0.701	63.0	19.9	-0.79	1.297	121.8	0.799	3.464	287.0	523.0	0.696	---	-0.68	0.297	134.8	305.0	-3.0	0.290
4-3300	4-4000	0.698	63.1	19.8	-0.82	1.294	121.7	0.794	3.383	286.8	524.4	0.695	---	-0.67	0.284	132.3	303.9	-3.1	0.279
4-3300	4-4020	0.697	63.2	19.8	-0.84	1.292	121.7	0.791	3.316	286.6	525.7	0.695	---	-0.66	0.273	129.8	302.7	-3.1	0.269
4-3300	4-4040	0.696	63.4	19.8	-0.86	1.290	121.8	0.787	3.260	286.3	527.1	0.693	---	-0.65	0.262	127.2	301.4	-3.1	0.260
4-3300	4-4060	0.696	63.6	19.8	-0.88	1.288	121.8	0.785	3.213	286.0	528.3	0.691	---	-0.64	0.253	124.5	300.1	-3.2	0.252
4-3300	4-4080	0.697	63.8	19.8	-0.90	1.287	121.9	0.783	3.173	285.6	529.5	0.689	---	-0.63	0.244	121.7	298.7	-3.2	0.246
4-3300	4-4100	0.698	64.1	19.9	-0.92	1.286	122.0	0.781	3.141	285.2	530.7	0.686	---	-0.62	0.236	118.9	297.3	-3.3	0.240
4-3300	4-4120	0.700	64.4	19.9	-0.94	1.284	122.2	0.781	3.113	284.7	531.8	0.683	---	-0.62	0.230	116.1	296.0	-3.3	0.235
4-3300	4-4140	0.703	64.7	19.9	-0.95	1.284	122.4	0.780	3.090	284.2	532.9	0.679	---	-0.61	0.223	113.2	294.6	-3.3	0.231
4-3300	4-4160	0.706	65.0	19.9	-0.97	1.283	122.6	0.780	3.072	283.7	533.9	0.675	---	-0.60	0.218	110.3	293.3	-3.4	0.228
4-3300	4-4180	0.709	65.3	20.0	-0.99	1.282	122.8	0.780	3.056	283.1	534.9	0.671	---	-0.60	0.213	107.4	292.0	-3.4	0.226
4-3300	4-4200	0.714	65.7	20.0	-1.01	1.282	123.1	0.781	3.044	282.5	535.8	0.666	---	-0.59	0.209	104.4	290.7	-3.4	0.224
4-3300	4-4220	0.718	66.1	20.1	-1.02	1.281	123.4	0.782	3.034	281.9	536.7	0.661	---	-0.59	0.206	101.5	289.6	-3.4	0.223
4-3300	4-4240	0.724	66.5	20.1	-1.04	1.281	123.7	0.783	3.027	281.2	537.6	0.655	---	-0.58	0.203	98.6	288.5	-3.4	0.223
4-3300	4-4260	0.729	66.9	20.2	-1.06	1.281	124.1	0.785	3.022	280.5	538.4	0.649	---	-0.58	0.201	95.7	287.5	-3.4	0.223
4-3300	4-4280	0.735	67.3	20.2	-1.07	1.281	124.4	0.787	3.018	279.7	539.2	0.643	---	-0.58	0.199	92.9	286.6	-3.5	0.224
4-3300	4-4300	0.741	67.8	20.3	-1.09	1.280	124.8	0.789	3.016	278.9	540.0	0.637	---	-0.57	0.198	90.1	285.7	-3.5	0.225
4-3300	4-4320	0.748	68.2	20.4	-1.10	1.280	125.2	0.791	3.016	278.1	540.7	0.630	5.402	-0.57	0.197	87.4	285.0	-3.5	0.226
4-3300	4-4340	0.755	68.7	20.4	-1.12	1.280	125.6	0.794	3.016	277.2	541.4	0.622	5.411	-0.57	0.196	84.7	284.4	-3.5	0.228
4-3300	4-4360	0.763	69.2	20.5	-1.13	1.281	126.0	0.796	3.018	276.4	542.0	0.615	5.422	-0.57	0.196	82.1	283.9	-3.5	0.230
4-3300	4-4380	0.771	69.7	20.6	-1.15	1.281	126.5	0.799	3.021	275.5	542.7	0.607	5.436	-0.57	0.196	79.5	283.5	-3.5	0.233
4-3300	4-4400	0.779	70.2	20.7	-1.16	1.281	126.9	0.802	3.025	274.5	543.3	0.599	5.452	-0.57	0.197	77.1	283.2	-3.4	0.235
4-3300	4-4420	0.787	70.7	20.7	-1.18	1.281	127.4	0.805	3.030	273.6	543.8	0.590	5.470	-0.57	0.197	74.7	283.0	-3.4	0.238
4-3300	4-4440	0.796	71.3	20.8	-1.19	1.281	127.9	0.808	3.036	272.6	544.4	0.581	5.490	-0.57	0.198	72.3	282.9	-3.4	0.241
4-3300	4-4460	0.805	71.8	20.9	-1.21	1.282	128.5	0.812	3.042	271.6	544.9	0.572	5.512	-0.57	0.200	70.1	282.9	-3.4	0.245
4-3300	4-4480	0.815	72.4	20.9	-1.22	1.282	129.0	0.815	3.049	270.5	545.4	0.563	5.535	-0.57	0.201	67.9	282.9	-3.4	0.248
4-3300	4-4500	0.824	72.9	21.0	-1.24	1.282	129.5	0.819	3.057	269.5	545.8	0.553	5.560	-0.57	0.202	65.8	283.1	-3.4	0.252
4-3300	4-4520	0.834	73.5	21.1	-1.25	1.282	130.1	0.823	3.065	268.4	546.3	0.544	5.586	-0.57	0.204	63.8	283.3	-3.4	0.256
4-3300	4-4540	0.844	74.1	21.2	-1.27	1.283	130.7	0.826	3.074	267.2	546.7	0.534	5.613	-0.57	0.206	61.8	283.6	-3.4	0.259
4-3300	4-4560	0.855	74.7	21.2	-1.29	1.283	131.3	0.830	3.083	266.1	547.1	0.523	5.642	-0.58	0.208	59.9	284.0	-3.4	0.263
4-3300	4-4580	0.866	75.3	21.3	-1.30	1.284	131.9	0.834	3.092	265.0	547.4	0.513	5.672	-0.58	0.210	58.1	284.4	-3.4	0.267
4-3300	4-4600	0.877	75.9	21.4	-1.32	1.284	132.5	0.838	3.102	263.8	547.7	0.502	5.702	-0.58	0.212	56.3	284.9	-3.3	0.272
4-3300	4-4620	0.888	76.5	21.5	-1.33	1.284	133.1	0.842	3.112	262.6	548.1	0.491	5.734	-0.59	0.214	54.6	285.5	-3.3	0.276
4-3300	4-4640	0.899	77.1	21.5	-1.35	1.285	133.8	0.846	3.123	261.3	548.3	0.480	5.766	-0.59	0.217	52.9	286.1	-3.3	0.280
4-3300	4-4660	0.911	77.8	21.6	-1.37	1.285	134.5	0.851	3.134	260.1	548.6	0.468	5.800	-0.60	0.219	51.3	286.8	-3.3	0.285
4-3300	4-4680	0.923	78.4	21.7	-1.38	1.286	135.1	0.855	3.145	258.8	548.9	0.456	5.834	-0.60	0.221	49.7	287.5	-3.3	0.289
4-3300	4-4700	0.935	79.0	21.7	-1.40	1.286	135.8	0.859	3.157	257.5	549.1	0.445	5.869	-0.61	0.224	48.2	288.3	-3.3	0.294
4-3300	4-4720	0.948	79.7	21.8	-1.42	1.287	136.6	0.863	3.168	256.2	549.3	0.433	5.904	-0.62	0.226	46.7	289.1	-3.2	0.298
4-3300	4-4740	0.960	80.3	21.8	-1.44	1.287	137.3	0.868	3.180	254.9	549.5	0.420	5.940	-0.62	0.229	45.3	290.0	-3.2	0.303
4-3300	4-4760	0.973	81.0	21.9	-1.45	1.288	138.0	0.872	3.193	253.5	549.6	0.408	5.977	-0.63	0.231	43.9	290.9	-3.2	0.307
4-3300	4-4780	0.986	81.7	22.0	-1.47	1.288	138.8	0.877	3.205	252.2	549.8	0.396	6.015	-0.64	0.234	42.5	291.9	-3.2	0.312
4-3300	4-4800	0.999	82.3	22.0	-1.49	1.289	139.5	0.881	3.218	250.8	549.9	0.383	6.053	-0.65	0.236	41.2	292.9	-3.1	0.317
4-3300	4-4820	1.013	83.0	22.1	-1.51	1.289	140.3	0.885	3.231	249.4	550.0	0.370	6.091	-0.66	0.239	39.9	293.9	-3.1	0.322
4-3300	4-4840	1.027	83.7	22.1	-1.53	1.289	141.1	0.890	3.244	247.9	550.0	0.357	6.130	-0.67	0.242	38.6	295.0	-3.1	0.326
4-3300	4-4860	1.040	84.4	22.2	-1.55	1.290	141.9	0.894	3.257	246.5	550.1	0.345	6.169	-0.68	0.244	37.3	296.1	-3.1	0.331
4-3300	4-4880	1.055	85.1	22.2	-1.57	1.290	142.7	0.899	3.270	245.0	550.1	0.332	6.209	-0.69	0.247	36.1	297.2	-3.0	0.336
4-3300	4-4900	1.069	85.8	22.2	-1.60	1.291	143.5	0.903	3.284	243.5	550.2	0.318	6.249	-0.71	0.250	34.9	298.3	-3.0	0.341
4-3310	4-3710	0.854	70.7	21.6	-0.46	1.425	125.7	1.04216	-116	290.3	494.8	0.678	---	-0.88	0.668	160.2	312.8	-2.6	0.643
4-3310	4-3730	0.822	70.4	21.5	-0.51	1.405	124.6	1.00466	-149	290.9	497.1	0.689	---	-0.83	0.624	158.8	313.0	-2.6	0.599
4-3310	4-3750	0.794	70.0	21.3	-0.56	1.388	123.7	0.97124	-180	291.5	499.3	0.699	---	-0.78	0.584	157.4	313.1	-2.6	0.560
4-3310	4-3770	0.769	69.7	21.2	-0.61	1.374	122.8	0.94212	-249	292.1	501.5	0.708	---	-0.74	0.548	155.9	313.2	-2.6	0.524
4-3310	4-3790	0.748	69.4	21.1	-0.65	1.361	122.1	0.917	8.619	292.5	503.6	0.716	---	-0.70	0.515	154.3	313.1	-2.6	0.491
4-3310	4-3810	0.729	69.1	21.0	-0.69	1.350	121.4	0.895	6.873	293.0	505.7	0.723	---	-0.67	0.485	152.6	313.0	-2.6	0.462
4-3310	4-3830	0.713	68.9	20.8	-0.72	1.341	120.8	0.875	5.853	293.3	507.7	0.730	---	-0.64	0.458	150.9	312.8	-2.6	0.434
4-3310	4-3850	0.698	68.7	20.7	-0.75	1.333	120.3	0.858	5.189	293.7	509.6	0.735	---	-0.62	0.433	149.1	312.5	-2.6	0.410
4-3310	4-3870	0.686	68.5	20.7	-0.78	1.326	119.9	0.844	4.725	293.9	511.5	0.739	---	-0.60	0.410	147.3	312.1	-2.6	0.387
4-3310	4-3890	0.676	68.4	20.6	-0.81	1.319	119.5	0.831	4.386	294.1	513.3	0.743	---	-0.58	0.389	145.3	311.6	-2.6	0.366
4-3310	4-3910	0.667	68.3	20.5	-0.83	1.314	119.2	0.819	4.128	294.3	514.1	0.746	---	-0.56	0.369	143.3	311.0	-2.7	0.348
4-3310	4-3930	0.659	68.3	20.4	-0.86	1.309	118.9	0.809	3.928	294.4	516.8	0.749	---	-0.54	0.351	141.2	310.3	-2.7	0.330
4-3310	4-3950	0.653	68.2	20.4	-0.88	1.305	118.7	0.801	3.769	294.4	518.4	0.751	---	-0.52	0.335	139.1	309.5	-2.7	0.315
4-3310	4-3970	0.648	68.3	20.3	-0.90	1.302	118.6	0.793	3.640	294.4	520.0	0.752	---	-0.51	0.320	136.8	308.7	-2.8	0.301
4-3310	4-3990	0.643	68.3	20.3	-0.92	1.298	118.4	0.787	3.535	294.3	521.5	0.753	---	-0.50	0.306	134.5	307.7	-2.8	0.288
4-3310	4-4010	0.640	68.4	20.3	-0.94	1.296	118.4	0.782	3.449	294.2	523.0	0.753	---	-0.48	0.294	132.1	306.6	-2.8	0.276
4-3310	4-4030	0.638	68.5	20.3	-0.95	1.293	118.3	0.777	3.377	294.0	524.4	0.753	---	-0.47	0.282	129.7	305.5	-2.9	0.266
4-3310	4-4050	0.637	68.7	20.2	-0.97	1.291	118.3	0.773	3.318	293.8	525.8	0.752	---	-0.46	0.272	127.2	304.3	-2.9	0.257
4-3310	4-4070	0.636	68.9	20.2	-0.99	1.290	118.4	0.770	3.267	293.6	527.1	0.750	---	-0.45	0.262	124.6	303.0	-3.0	0.249

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3310	4-4090	0.636	69.1	20.3	-1.00	1.288	118.4	0.768	3.225	293.2	528.4	0.749	---	-0.44	0.254	122.0	301.7	-3.0	0.241
4-3310	4-4110	0.637	69.3	20.3	-1.01	1.287	118.5	0.766	3.190	292.9	529.6	0.747	---	-0.44	0.246	119.3	300.3	-3.0	0.235
4-3310	4-4130	0.639	69.6	20.3	-1.03	1.285	118.7	0.765	3.161	292.5	530.8	0.744	---	-0.43	0.239	116.6	299.0	-3.1	0.230
4-3310	4-4150	0.641	69.9	20.3	-1.04	1.285	118.8	0.764	3.136	292.0	531.9	0.741	---	-0.42	0.233	113.8	297.6	-3.1	0.226
4-3310	4-4170	0.643	70.2	20.3	-1.06	1.284	119.0	0.763	3.115	291.5	533.0	0.738	---	-0.41	0.228	111.1	296.2	-3.1	0.222
4-3310	4-4190	0.646	70.5	20.4	-1.07	1.283	119.2	0.763	3.099	291.0	534.0	0.734	---	-0.41	0.223	108.3	294.9	-3.2	0.219
4-3310	4-4210	0.650	70.9	20.4	-1.08	1.282	119.5	0.763	3.085	290.5	535.0	0.730	---	-0.40	0.219	105.6	293.7	-3.2	0.217
4-3310	4-4230	0.654	71.3	20.5	-1.09	1.282	119.7	0.764	3.074	289.9	535.9	0.725	---	-0.40	0.216	102.8	292.4	-3.2	0.216
4-3310	4-4250	0.658	71.7	20.5	-1.10	1.282	120.0	0.765	3.065	289.2	536.9	0.721	---	-0.39	0.213	100.1	291.3	-3.2	0.215
4-3310	4-4270	0.663	72.1	20.5	-1.12	1.281	120.3	0.766	3.059	288.5	537.7	0.715	---	-0.39	0.210	97.4	290.2	-3.3	0.215
4-3310	4-4290	0.668	72.5	20.6	-1.13	1.281	120.6	0.768	3.054	287.8	538.6	0.710	---	-0.39	0.208	94.7	289.2	-3.3	0.215
4-3310	4-4310	0.674	73.0	20.7	-1.14	1.281	120.9	0.769	3.052	287.1	539.4	0.704	---	-0.38	0.207	92.1	288.3	-3.3	0.215
4-3310	4-4330	0.680	73.5	20.7	-1.15	1.281	121.3	0.771	3.050	286.3	540.2	0.698	5.402	-0.38	0.206	89.5	287.5	-3.3	0.216
4-3310	4-4350	0.687	74.0	20.8	-1.16	1.281	121.7	0.773	3.050	285.5	540.9	0.692	5.409	-0.38	0.205	86.9	286.8	-3.3	0.218
4-3310	4-4370	0.693	74.5	20.8	-1.17	1.281	122.1	0.776	3.051	284.7	541.6	0.685	5.418	-0.37	0.205	84.5	286.2	-3.3	0.220
4-3310	4-4390	0.700	75.0	20.9	-1.18	1.281	122.5	0.778	3.054	283.9	542.3	0.678	5.429	-0.37	0.205	82.1	285.7	-3.3	0.222
4-3310	4-4410	0.708	75.5	21.0	-1.19	1.281	122.9	0.781	3.057	283.0	542.9	0.670	5.443	-0.37	0.205	79.7	285.3	-3.3	0.224
4-3310	4-4430	0.715	76.0	21.0	-1.20	1.281	123.4	0.783	3.061	282.1	543.6	0.663	5.459	-0.37	0.205	77.5	285.0	-3.3	0.226
4-3310	4-4450	0.723	76.6	21.1	-1.21	1.282	123.8	0.786	3.066	281.1	544.1	0.655	5.477	-0.37	0.206	75.3	284.8	-3.3	0.229
4-3310	4-4470	0.732	77.2	21.1	-1.22	1.282	124.3	0.789	3.072	280.2	544.7	0.647	5.497	-0.37	0.207	73.1	284.7	-3.3	0.232
4-3310	4-4490	0.740	77.7	21.2	-1.23	1.282	124.8	0.793	3.078	279.2	545.2	0.638	5.518	-0.36	0.208	71.0	284.7	-3.3	0.235
4-3310	4-4510	0.749	78.3	21.3	-1.24	1.282	125.3	0.796	3.085	278.2	545.8	0.630	5.541	-0.36	0.210	69.0	284.7	-3.3	0.238
4-3310	4-4530	0.758	78.9	21.3	-1.25	1.283	125.8	0.799	3.093	277.1	546.2	0.621	5.565	-0.36	0.211	67.1	284.9	-3.3	0.242
4-3310	4-4550	0.768	79.5	21.4	-1.26	1.283	126.4	0.803	3.101	276.1	546.7	0.611	5.590	-0.36	0.213	65.2	285.1	-3.2	0.245
4-3310	4-4570	0.777	80.1	21.5	-1.27	1.283	126.9	0.806	3.109	275.0	547.1	0.602	5.617	-0.36	0.214	63.4	285.4	-3.2	0.249
4-3310	4-4590	0.787	80.7	21.5	-1.28	1.284	127.5	0.810	3.118	273.9	547.5	0.592	5.645	-0.36	0.216	61.6	285.7	-3.2	0.253
4-3310	4-4610	0.797	81.3	21.6	-1.29	1.284	128.0	0.814	3.128	272.8	547.9	0.582	5.674	-0.37	0.218	59.9	286.2	-3.2	0.257
4-3310	4-4630	0.808	82.0	21.6	-1.30	1.285	128.6	0.818	3.138	271.6	548.3	0.572	5.704	-0.37	0.220	58.2	286.6	-3.2	0.261
4-3310	4-4650	0.818	82.6	21.7	-1.31	1.285	129.2	0.822	3.148	270.4	548.6	0.561	5.734	-0.37	0.222	56.6	287.2	-3.2	0.265
4-3310	4-4670	0.829	83.2	21.7	-1.32	1.285	129.9	0.826	3.158	269.3	549.0	0.550	5.766	-0.37	0.224	55.1	287.8	-3.2	0.269
4-3310	4-4690	0.840	83.9	21.8	-1.33	1.286	130.5	0.830	3.169	268.0	549.3	0.539	5.799	-0.37	0.227	53.6	288.4	-3.2	0.273
4-3310	4-4710	0.852	84.5	21.8	-1.34	1.286	131.1	0.834	3.180	266.8	549.5	0.528	5.832	-0.37	0.229	52.1	289.2	-3.1	0.277
4-3310	4-4730	0.863	85.2	21.9	-1.35	1.287	131.8	0.838	3.191	265.6	549.8	0.517	5.866	-0.38	0.231	50.7	289.9	-3.1	0.281
4-3310	4-4750	0.875	85.9	21.9	-1.36	1.287	132.5	0.842	3.203	264.3	550.0	0.505	6.901	-0.38	0.233	49.3	290.7	-3.1	0.286
4-3310	4-4770	0.887	86.5	22.0	-1.37	1.288	133.1	0.847	3.215	263.0	550.3	0.493	5.936	-0.38	0.236	47.9	291.6	-3.1	0.290
4-3310	4-4790	0.899	87.2	22.0	-1.38	1.288	133.8	0.851	3.227	261.7	550.5	0.481	5.972	-0.38	0.238	46.6	292.5	-3.1	0.295
4-3310	4-4810	0.912	87.9	22.0	-1.39	1.288	134.5	0.855	3.239	260.3	550.6	0.469	6.008	-0.39	0.241	45.3	293.4	-3.0	0.299
4-3310	4-4830	0.924	88.6	22.1	-1.40	1.289	135.3	0.860	3.251	259.0	550.8	0.457	6.046	-0.39	0.243	44.0	294.3	-3.0	0.304
4-3310	4-4850	0.937	89.3	22.1	-1.41	1.289	136.0	0.864	3.264	257.6	550.9	0.444	6.083	-0.40	0.246	42.8	295.4	-3.0	0.308
4-3310	4-4870	0.950	90.0	22.1	-1.42	1.290	136.8	0.868	3.276	256.2	551.1	0.431	6.121	-0.40	0.248	41.6	296.4	-3.0	0.313
4-3310	4-4890	0.964	90.7	22.1	-1.43	1.290	137.5	0.873	3.289	254.8	551.2	0.418	6.160	-0.41	0.250	40.4	297.5	-2.9	0.317
4-3310	4-4910	0.977	91.4	22.2	-1.45	1.291	138.3	0.877	3.302	253.4	551.2	0.405	6.199	-0.41	0.253	39.2	298.6	-2.9	0.322
4-3320	4-3720	0.799	76.4	21.7	-0.76	1.427	122.4	1.05114.414		296.9	492.7	0.731	---	-0.55	0.673	159.6	314.5	-2.4	0.642
4-3320	4-3740	0.767	75.9	21.5	-0.82	1.407	121.4	1.01076.381		297.6	495.0	0.742	---	-0.50	0.629	158.2	314.7	-2.4	0.598
4-3320	4-3760	0.739	75.5	21.4	-0.86	1.390	120.4	0.97429.007		298.2	497.3	0.752	---	-0.46	0.590	156.7	314.9	-2.4	0.559
4-3320	4-3780	0.714	75.1	21.2	-0.90	1.376	119.6	0.94313.342		298.8	499.6	0.761	---	-0.43	0.554	155.2	315.0	-2.4	0.523
4-3320	4-3800	0.693	74.7	21.1	-0.93	1.363	118.8	0.916	9.131	299.4	501.7	0.769	---	-0.40	0.521	153.6	315.0	-2.4	0.490
4-3320	4-3820	0.674	74.4	21.0	-0.96	1.352	118.2	0.892	7.185	299.9	503.9	0.776	---	-0.37	0.492	152.0	314.9	-2.4	0.461
4-3320	4-3840	0.658	74.1	20.8	-0.98	1.343	117.6	0.871	6.072	300.3	505.9	0.782	---	-0.35	0.464	150.3	314.7	-2.4	0.434
4-3320	4-3860	0.643	73.8	20.7	-1.00	1.334	117.1	0.853	5.356	300.7	507.9	0.788	---	-0.33	0.440	148.5	314.5	-2.4	0.409
4-3320	4-3880	0.631	73.6	20.7	-1.02	1.327	116.6	0.837	4.860	301.0	509.9	0.792	---	-0.31	0.417	146.7	314.1	-2.4	0.386
4-3320	4-3900	0.620	73.4	20.6	-1.04	1.321	116.2	0.823	4.498	301.3	511.8	0.796	---	-0.30	0.396	144.8	313.7	-2.4	0.365
4-3320	4-3920	0.611	73.3	20.5	-1.06	1.316	115.9	0.811	4.225	301.5	513.6	0.799	---	-0.28	0.376	142.8	313.2	-2.4	0.346
4-3320	4-3940	0.603	73.2	20.4	-1.07	1.311	115.6	0.800	4.013	301.7	515.3	0.802	---	-0.27	0.359	140.7	312.5	-2.4	0.329
4-3320	4-3960	0.597	73.1	20.4	-1.08	1.307	115.4	0.791	3.845	301.8	517.0	0.804	---	-0.26	0.343	138.6	311.8	-2.5	0.313
4-3320	4-3980	0.591	73.1	20.3	-1.10	1.303	115.2	0.783	3.710	301.8	518.7	0.805	---	-0.25	0.328	136.4	311.0	-2.5	0.299
4-3320	4-4000	0.587	73.1	20.3	-1.11	1.300	115.1	0.776	3.600	301.8	520.3	0.806	---	-0.24	0.314	134.2	310.1	-2.5	0.286
4-3320	4-4020	0.584	73.2	20.3	-1.12	1.297	115.0	0.770	3.509	301.7	521.8	0.807	---	-0.23	0.302	131.9	309.1	-2.6	0.274
4-3320	4-4040	0.581	73.3	20.3	-1.13	1.295	114.9	0.765	3.433	301.6	523.3	0.807	---	-0.23	0.290	129.5	308.0	-2.6	0.263
4-3320	4-4060	0.579	73.4	20.3	-1.14	1.293	114.9	0.761	3.370	301.4	524.7	0.806	---	-0.22	0.280	127.1	306.8	-2.6	0.254
4-3320	4-4080	0.578	73.6	20.3	-1.14	1.291	114.9	0.757	3.318	301.2	526.0	0.806	---	-0.21	0.271	124.6	305.6	-2.7	0.245
4-3320	4-4100	0.578	73.8	20.3	-1.15	1.289	115.0	0.754	3.273	301.0	527.3	0.804	---	-0.21	0.262	122.1	304.3	-2.7	0.238
4-3320	4-4120	0.578	74.0	20.3	-1.16	1.288	115.1	0.752	3.236	300.6	528.6	0.803	---	-0.20	0.255	119.5	303.0	-2.8	0.231
4-3320	4-4140	0.579	74.3	20.3	-1.17	1.287	115.2	0.750	3.204	300.3	529.8	0.801	---	-0.20	0.248	116.9	301.7	-2.8	0.226
4-3320	4-4160	0.581	74.5	20.3	-1.17	1.286	115.3	0.749	3.178	299.9	531.0	0.798	---	-0.19	0.242	114.3	300.3	-2.8	0.221
4-3320	4-4180	0.583	74.9	20.4	-1.18	1.285	115.5	0.748	3.156	299.4	532.1	0.795	---	-0.19	0.236	111.7	299.0	-2.9	0.217
4-3320	4-4200	0.585	75.2	20.4	-1.19	1.284	115.7	0.748	3.138	299.0	533.2	0.792	---	-0.19	0.232	109.0	297.6	-2.9	0.214
4-3320	4-4220	0.588	75.6	20.4	-1.19	1.283	115.9	0.747	3.123	298.4	534.2	0.789	---	-0.18	0.228	106.4	296.3	-2.9	0.211
4-3320	4-4240	0.592	76.0	20.5	-1.20	1.283	116.1	0.748	3.111	297.9	535.2	0.785	---	-0.18	0.224	103.8	295.1	-3.0	0.209
4-3320	4-4260	0.596	76.4	20.5	-1.21	1.283	116.3	0.748	3.102	297.3	536.2	0.781	---	-0.18	0.221	101.2	293.9	-3.0	0.208
4-3320	4-4280	0.600	76.8	20.6	-1.21	1.282	116.6	0.749	3.094	296.7	537.1	0.777	---	-0.17	0.219	98.6	292.8	-3.0	0.207
4-3320	4-4300	0.605	77.3	20.6	-1.22	1.282	116.9	0.750	3.089	296.0	538.0	0.772	---	-0.17	0.217	96.1	291.7	-3.0	0.207
4-3320	4-4320	0.610	77.8	20.7	-1.22	1.282	117.2	0.751	3.085	295.3	538.8	0.767	---	-0.17	0.215	93.6	290.8	-3.0	0.207
4-3320	4-4340	0.615	78.3	20.7	-1.23	1.282	117.5	0.753	3.083	294.6	539.6	0.762	---	-0.17	0.214	91.1	289.9	-3.1	0.208
4-3320	4-4360	0.621	78.8	20.8	-1.23	1.282	117.9	0.755	3.082	293.8	540.4	0.756	5.409	-0.16	0.213	88.7	289.1	-3.1	0.209
4-3320	4-4380	0.627	79.3	20.8	-1.24	1.282	118.2	0.757	3.083	293.0	541.2	0.750	5.416	-0.16	0.212	86.4	288.4	-3.1	0.210
4-3320	4-4400	0.633	79.8	20.9	-1.24	1.282	118.6	0.759	3.085	292.2	541.9	0.744	5.425	-0.16	0.212	84.1	287.9	-3.1	0.212
4-3320	4-4420	0.640	80.4	21.0	-1.25	1.282	119.0	0.761	3.087	291.4	542.6	0.737	5.437	-0.16	0.212	81.9	287.4	-3.1	0.214
4-3320	4-4440	0.647	81.0	21.0	-1.25	1.282	119.4	0.764	3.091	290.5	543.2	0.731	5.451	-0.16	0.213	79.7	287.0	-3.1	0.216
4-3320	4-4460	0.654	81.5	21.1	-1.25	1.282	119.9	0.766	3.095	289.6	543.9	0.724	5.467	-0.16	0.213	77.6	286.7	-3.1	0.219

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

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DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3320	4-4480	0.662	82.1	21.1	-1.26	1.283	120.3	0.769	3.101	288.7	544.5	0.716	5.485	-0.16	0.214	75.6	286.5	-3.1	0.221
4-3320	4-4500	0.669	82.7	21.2	-1.26	1.283	120.7	0.772	3.107	287.8	545.1	0.709	5.504	-0.15	0.215	73.6	286.4	-3.1	0.224
4-3320	4-4520	0.678	83.3	21.2	-1.27	1.283	121.2	0.775	3.113	286.8	545.6	0.701	5.525	-0.15	0.216	71.7	286.4	-3.1	0.227
4-3320	4-4540	0.686	83.9	21.3	-1.27	1.283	121.7	0.778	3.120	285.8	546.1	0.693	5.547	-0.15	0.217	69.8	286.4	-3.1	0.230
4-3320	4-4560	0.695	84.6	21.4	-1.28	1.284	122.2	0.781	3.128	284.8	546.6	0.685	5.571	-0.15	0.219	68.0	286.6	-3.1	0.233
4-3320	4-4580	0.703	85.2	21.4	-1.28	1.284	122.7	0.784	3.136	283.8	547.1	0.676	5.596	-0.15	0.220	66.3	286.8	-3.1	0.237
4-3320	4-4600	0.712	85.8	21.5	-1.28	1.284	123.2	0.788	3.145	282.7	547.6	0.667	5.622	-0.15	0.222	64.6	287.1	-3.1	0.240
4-3320	4-4620	0.722	86.5	21.5	-1.29	1.285	123.8	0.791	3.154	281.6	548.0	0.658	5.649	-0.15	0.224	63.0	287.4	-3.1	0.244
4-3320	4-4640	0.731	87.1	21.5	-1.29	1.285	124.3	0.795	3.163	280.5	548.4	0.649	5.677	-0.15	0.226	61.4	287.8	-3.0	0.247
4-3320	4-4660	0.741	87.8	21.6	-1.30	1.285	124.9	0.799	3.173	279.4	548.8	0.639	5.706	-0.15	0.228	59.8	288.3	-3.0	0.251
4-3320	4-4680	0.751	88.4	21.6	-1.30	1.286	125.4	0.802	3.183	278.3	549.2	0.629	5.736	-0.15	0.230	58.3	288.9	-3.0	0.255
4-3320	4-4700	0.762	89.1	21.7	-1.30	1.286	126.0	0.806	3.193	277.1	549.6	0.619	5.767	-0.15	0.232	56.9	289.5	-3.0	0.259
4-3320	4-4720	0.772	89.8	21.7	-1.31	1.287	126.6	0.810	3.204	275.9	549.9	0.609	5.799	-0.15	0.234	55.4	290.1	-3.0	0.263
4-3320	4-4740	0.783	90.5	21.7	-1.31	1.287	127.2	0.814	3.215	274.7	550.2	0.598	5.831	-0.15	0.236	54.1	290.8	-3.0	0.267
4-3320	4-4760	0.794	91.2	21.8	-1.32	1.287	127.9	0.818	3.226	273.5	550.5	0.587	5.864	-0.15	0.238	52.7	291.5	-3.0	0.271
4-3320	4-4780	0.805	91.8	21.8	-1.32	1.288	128.5	0.822	3.237	272.3	550.8	0.576	5.898	-0.15	0.240	51.4	292.3	-2.9	0.275
4-3320	4-4800	0.816	92.5	21.8	-1.32	1.288	129.1	0.826	3.249	271.0	551.0	0.565	5.933	-0.15	0.243	50.1	293.2	-2.9	0.279
4-3320	4-4820	0.828	93.2	21.8	-1.33	1.289	129.8	0.830	3.260	269.7	551.3	0.553	5.968	-0.15	0.245	48.9	294.0	-2.9	0.283
4-3320	4-4840	0.840	93.9	21.8	-1.33	1.289	130.5	0.834	3.272	268.4	551.5	0.542	6.003	-0.15	0.247	47.7	294.9	-2.9	0.287
4-3320	4-4860	0.852	94.6	21.9	-1.34	1.290	131.2	0.839	3.285	267.1	551.7	0.530	6.040	-0.16	0.250	46.5	295.9	-2.9	0.292
4-3320	4-4880	0.864	95.3	21.9	-1.34	1.290	131.9	0.843	3.297	265.8	551.8	0.518	6.076	-0.16	0.252	45.3	296.9	-2.8	0.296
4-3320	4-4900	0.877	96.1	21.9	-1.34	1.290	132.6	0.847	3.309	264.4	552.0	0.505	6.114	-0.16	0.254	44.2	297.9	-2.8	0.300
4-3320	4-4920	0.889	96.8	21.9	-1.35	1.291	133.3	0.852	3.322	263.1	552.1	0.493	6.151	-0.16	0.257	43.1	298.9	-2.8	0.305
4-3330	4-3730	0.743	81.5	20.1	-1.84	1.429	119.0	1.05813	3.503	303.7	490.8	0.784	---	0.54	0.676	158.9	316.1	-1.9	0.660
4-3330	4-3750	0.711	80.9	20.1	-1.73	1.409	118.0	1.01456	3.127	304.5	493.2	0.794	---	0.44	0.633	157.5	316.3	-1.9	0.596
4-3330	4-3770	0.684	80.4	20.1	-1.66	1.392	117.1	0.97633	3.629	305.2	495.5	0.804	---	0.37	0.594	156.1	316.5	-2.0	0.557
4-3330	4-3790	0.659	79.9	20.1	-1.61	1.377	116.2	0.94314	4.242	305.8	497.8	0.812	---	0.32	0.558	154.6	316.6	-2.0	0.521
4-3330	4-3810	0.638	79.4	20.0	-1.58	1.365	115.5	0.914	9.542	306.4	500.1	0.820	---	0.28	0.526	153.0	316.6	-2.0	0.488
4-3330	4-3830	0.619	79.0	20.0	-1.55	1.354	114.8	0.889	7.436	307.0	502.3	0.826	---	0.25	0.496	151.4	316.6	-2.0	0.459
4-3330	4-3850	0.603	78.6	19.9	-1.52	1.344	114.2	0.867	6.249	307.5	504.4	0.832	---	0.23	0.469	149.7	316.5	-2.0	0.432
4-3330	4-3870	0.589	78.2	19.9	-1.50	1.336	113.7	0.848	5.491	308.0	506.5	0.837	---	0.21	0.444	147.9	316.2	-2.0	0.407
4-3330	4-3890	0.577	77.9	19.8	-1.48	1.329	113.3	0.831	4.970	308.3	508.5	0.842	---	0.19	0.422	146.1	315.9	-2.0	0.384
4-3330	4-3910	0.566	77.7	19.8	-1.47	1.323	112.9	0.816	4.591	308.7	510.4	0.845	---	0.18	0.401	144.2	315.5	-2.0	0.363
4-3330	4-3930	0.557	77.5	19.7	-1.46	1.317	112.5	0.803	4.306	308.9	512.3	0.848	---	0.17	0.382	142.3	315.1	-2.1	0.344
4-3330	4-3950	0.549	77.3	19.7	-1.45	1.312	112.3	0.792	4.085	309.1	514.1	0.851	---	0.16	0.365	140.2	314.5	-2.1	0.327
4-3330	4-3970	0.542	77.2	19.7	-1.44	1.308	112.0	0.782	3.910	309.3	515.8	0.853	---	0.15	0.349	138.2	313.8	-2.1	0.311
4-3330	4-3990	0.537	77.1	19.7	-1.43	1.305	111.9	0.773	3.770	309.4	517.5	0.855	---	0.14	0.334	136.0	313.0	-2.1	0.296
4-3330	4-4010	0.532	77.1	19.7	-1.42	1.301	111.7	0.766	3.655	309.4	519.1	0.856	---	0.13	0.320	133.8	312.2	-2.2	0.283
4-3330	4-4030	0.529	77.1	19.7	-1.41	1.299	111.6	0.759	3.560	309.4	520.7	0.856	---	0.13	0.308	131.5	311.2	-2.2	0.271
4-3330	4-4050	0.526	77.2	19.7	-1.41	1.296	111.5	0.754	3.482	309.3	522.2	0.857	---	0.12	0.297	129.2	310.2	-2.2	0.260
4-3330	4-4070	0.524	77.3	19.7	-1.40	1.294	111.5	0.749	3.416	309.2	523.7	0.856	---	0.12	0.287	126.9	309.1	-2.3	0.251
4-3330	4-4090	0.522	77.5	19.7	-1.39	1.292	111.5	0.745	3.362	309.0	525.1	0.856	---	0.11	0.278	124.5	307.9	-2.3	0.242
4-3330	4-4110	0.522	77.7	19.8	-1.39	1.291	111.5	0.742	3.315	308.8	526.4	0.855	---	0.11	0.269	122.0	306.7	-2.4	0.234
4-3330	4-4130	0.522	77.9	19.8	-1.38	1.289	111.6	0.739	3.276	308.5	527.7	0.854	---	0.10	0.262	119.5	305.4	-2.4	0.228
4-3330	4-4150	0.522	78.2	19.8	-1.38	1.288	111.7	0.737	3.244	308.2	529.0	0.852	---	0.10	0.255	117.0	304.1	-2.4	0.222
4-3330	4-4170	0.523	78.5	19.9	-1.38	1.287	111.8	0.736	3.216	307.8	530.2	0.850	---	0.10	0.249	114.5	302.7	-2.5	0.217
4-3330	4-4190	0.525	78.8	19.9	-1.37	1.286	112.0	0.734	3.193	307.4	531.3	0.848	---	0.10	0.244	112.0	301.4	-2.5	0.212
4-3330	4-4210	0.527	79.2	20.0	-1.37	1.285	112.1	0.734	3.174	307.0	532.4	0.845	---	0.09	0.239	109.5	300.1	-2.6	0.209
4-3330	4-4230	0.530	79.6	20.0	-1.37	1.285	112.3	0.733	3.158	306.5	533.5	0.842	---	0.09	0.235	107.0	298.7	-2.6	0.206
4-3330	4-4250	0.533	80.0	20.1	-1.36	1.284	112.5	0.733	3.145	306.0	534.5	0.839	---	0.09	0.231	104.5	297.5	-2.6	0.204
4-3330	4-4270	0.536	80.4	20.1	-1.36	1.284	112.8	0.733	3.135	305.4	535.5	0.836	---	0.09	0.228	102.0	296.3	-2.7	0.202
4-3330	4-4290	0.540	80.9	20.2	-1.36	1.283	113.0	0.734	3.127	304.8	536.5	0.832	---	0.08	0.226	99.5	295.1	-2.7	0.201
4-3330	4-4310	0.544	81.4	20.3	-1.35	1.283	113.3	0.735	3.121	304.2	537.4	0.828	---	0.08	0.224	97.1	294.0	-2.7	0.201
4-3330	4-4330	0.548	81.9	20.3	-1.35	1.283	113.6	0.736	3.116	303.5	538.3	0.824	---	0.08	0.222	94.7	293.0	-2.7	0.200
4-3330	4-4350	0.553	82.4	20.4	-1.35	1.283	113.9	0.737	3.114	302.9	539.1	0.819	---	0.08	0.221	92.4	292.1	-2.8	0.201
4-3330	4-4370	0.558	83.0	20.5	-1.35	1.283	114.2	0.738	3.113	302.1	540.0	0.815	---	0.08	0.220	90.1	291.3	-2.8	0.201
4-3330	4-4390	0.563	83.5	20.5	-1.34	1.283	114.5	0.740	3.113	301.4	540.7	0.810	5.416	0.08	0.219	87.9	290.5	-2.8	0.202
4-3330	4-4410	0.569	84.1	20.6	-1.34	1.283	114.9	0.742	3.114	300.6	541.5	0.804	5.423	0.08	0.219	85.7	289.9	-2.8	0.204
4-3330	4-4430	0.575	84.7	20.7	-1.34	1.283	115.2	0.744	3.116	299.8	542.2	0.799	5.434	0.07	0.219	83.6	289.3	-2.8	0.205
4-3330	4-4450	0.582	85.3	20.7	-1.34	1.283	115.6	0.746	3.119	299.0	542.9	0.793	5.446	0.07	0.219	81.5	288.9	-2.8	0.207
4-3330	4-4470	0.588	85.9	20.8	-1.33	1.283	116.0	0.748	3.123	298.1	543.6	0.787	5.460	0.07	0.220	79.5	288.5	-2.8	0.209
4-3330	4-4490	0.595	86.5	20.8	-1.33	1.284	116.4	0.751	3.128	297.2	544.2	0.780	5.476	0.07	0.220	77.6	288.3	-2.8	0.212
4-3330	4-4510	0.602	87.2	20.9	-1.33	1.284	116.8	0.753	3.134	296.3	544.9	0.774	5.494	0.07	0.221	75.7	288.1	-2.8	0.214
4-3330	4-4530	0.609	87.8	20.9	-1.33	1.284	117.3	0.756	3.140	295.4	545.4	0.767	5.513	0.07	0.222	73.9	288.0	-2.8	0.217
4-3330	4-4550	0.617	88.5	21.0	-1.33	1.284	117.7	0.759	3.147	294.5	546.0	0.760	5.533	0.07	0.223	72.1	288.0	-2.9	0.220
4-3330	4-4570	0.625	89.1	21.0	-1.32	1.285	118.2	0.761	3.154	293.5	546.6	0.752	5.555	0.07	0.225	70.3	288.1	-2.9	0.223
4-3330	4-4590	0.633	89.8	21.1	-1.32	1.285	118.7	0.764	3.162	292.5	547.1	0.745	5.579	0.07	0.226	68.7	288.2	-2.8	0.226
4-3330	4-4610	0.641	90.5	21.1	-1.32	1.285	119.1	0.768	3.170	291.5	547.6	0.737	5.603	0.07	0.228	67.1	288.4	-2.8	0.229
4-3330	4-4630	0.650	91.2	21.2	-1.32	1.286	119.6	0.771	3.179	290.4	548.1	0.729	5.628	0.07	0.229	65.5	288.7	-2.8	0.232
4-3330	4-4650	0.659	91.9	21.2	-1.32	1.286	120.2	0.774	3.188	289.4	548.5	0.720	5.655	0.07	0.231	64.0	289.1	-2.8	0.236
4-3330	4-4670	0.668	92.5	21.2	-1.31	1.286	120.7	0.777	3.197	288.3	549.0	0.712	5.682	0.07	0.233	62.5	289.5	-2.8	0.239
4-3330	4-4690	0.677	93.2	21.3	-1.31	1.287	121.2	0.781	3.207	287.2	549.4	0.703	5.711	0.07	0.235	61.0	290.0	-2.8	0.243
4-3330	4-4710	0.687	94.0	21.3	-1.31	1.287	121.8	0.784	3.217	286.1	549.8	0.694	5.740	0.07	0.236	59.6	290.5	-2.8	0.246
4-3330	4-4730	0.696	94.7	21.3	-1.31	1.287	122.3	0.788	3.227	285.0	550.1	0.684	5.770	0.07	0.238	58.3	291.1	-2.8	0.250
4-3330	4-4750	0.706	95.4	21.3	-1.31	1.288	122.9	0.792	3.238	283.8	550.5	0.675	5.801	0.07	0.241	56.9	291.7	-2.8	0.254
4-3330	4-4770	0.716	96.1	21.4	-1.31	1.288	123.5	0.795	3.249	282.6	550.8	0.665	5.832	0.07	0.243	55.7	292.4	-2.8	0.257
4-3330	4-4790	0.727	96.8	21.4	-1.30	1.289	124.1	0.799	3.260	281.4	551.2	0.655	5.865	0.07	0.245	54.4	293.2	-2.8	0.261
4-3330	4-4810	0.737	97.5	21.4	-1.30	1.289	124.7	0.803	3.271	280.2	551.5	0.644	5.898	0.07	0.247	53.2	293.9	-2.8	0.265
4-3330	4-4830	0.748	98.2	21.4	-1.30	1.289	125.3	0.807	3.282	279.0	551.7	0.634	5.931	0.07	0.249	52.0	294.7	-2.7	0.269
4-3330	4-4850	0.759	99.0	21.4	-1.30	1.290	125.9	0.811	3.294	277.8	552.0	0.623	5.965	0.07	0.251	50.8	295.6	-2.7	0.273

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3330	4-4870	0.770	99.7	21.4	-1.30	1.290	126.6	0.815	3.306	276.5	552.2	0.612	6.000	0.07	0.253	49.7	296.5	-2.7	0.277
4-3330	4-4890	0.782	100.4	21.4	-1.30	1.291	127.2	0.819	3.318	275.2	552.5	0.601	6.035	0.07	0.256	48.6	297.4	-2.7	0.281
4-3330	4-4910	0.793	101.2	21.4	-1.29	1.291	127.9	0.823	3.330	273.9	552.7	0.589	6.071	0.07	0.258	47.5	298.4	-2.7	0.285
4-3330	4-4930	0.805	101.9	21.4	-1.29	1.291	128.5	0.827	3.342	272.6	552.9	0.577	6.107	0.07	0.260	46.4	299.4	-2.6	0.289
4-3340	4-3740	0.704	86.1	39.0	8.44	1.430	115.4	1.06313.174		310.7	489.1	0.835	---	-9.72	0.677	158.2	317.4	-5.9	0.638
4-3340	4-3780	0.662	86.7	1.9	-10.96	1.393	113.5	0.97736.614		312.3	496.0	0.852	---	9.69	0.596	155.4	317.5	2.2	0.556
4-3340	4-3800	0.615	84.6	10.5	-6.16	1.378	112.7	0.94214.794		313.1	496.4	0.860	---	4.90	0.560	153.9	317.9	0.3	0.518
4-3340	4-3820	0.589	83.7	13.5	-4.54	1.366	112.0	0.912	9.802	313.7	498.7	0.867	---	3.28	0.528	152.3	318.0	-0.4	0.486
4-3340	4-3840	0.568	83.0	15.0	-3.72	1.355	111.3	0.885	7.600	314.4	500.9	0.873	---	2.47	0.499	150.7	318.0	-0.7	0.456
4-3340	4-3860	0.552	82.4	15.9	-3.23	1.346	110.8	0.862	6.368	314.9	503.1	0.878	---	1.98	0.472	149.0	318.0	-0.9	0.429
4-3340	4-3880	0.537	81.9	16.4	-2.90	1.337	110.3	0.842	5.586	315.4	505.2	0.883	---	1.65	0.448	147.3	317.8	-1.1	0.404
4-3340	4-3900	0.525	81.5	16.8	-2.67	1.330	109.8	0.824	5.048	315.9	507.3	0.887	---	1.42	0.425	145.5	317.5	-1.2	0.382
4-3340	4-3920	0.514	81.1	17.1	-2.49	1.324	109.4	0.809	4.659	316.3	509.3	0.890	---	1.25	0.405	143.6	317.1	-1.3	0.361
4-3340	4-3940	0.505	80.8	17.3	-2.35	1.319	109.1	0.795	4.367	316.6	511.2	0.893	---	1.11	0.386	141.7	316.7	-1.3	0.342
4-3340	4-3960	0.497	80.5	17.5	-2.24	1.314	108.8	0.784	4.140	316.8	513.0	0.896	---	1.01	0.369	139.7	316.1	-1.4	0.324
4-3340	4-3980	0.490	80.3	17.7	-2.15	1.310	108.6	0.773	3.961	317.0	514.8	0.898	---	0.92	0.353	137.6	315.5	-1.4	0.308
4-3340	4-4000	0.485	80.2	17.8	-2.07	1.306	108.4	0.764	3.817	317.2	516.6	0.899	---	0.85	0.338	135.5	314.8	-1.5	0.294
4-3340	4-4020	0.480	80.1	17.9	-2.01	1.303	108.3	0.757	3.699	317.2	518.2	0.900	---	0.78	0.325	133.3	313.9	-1.5	0.281
4-3340	4-4040	0.476	80.1	18.1	-1.95	1.300	108.2	0.750	3.602	317.3	519.8	0.901	---	0.73	0.313	131.1	313.0	-1.6	0.269
4-3340	4-4060	0.473	80.1	18.2	-1.90	1.298	108.1	0.744	3.522	317.2	521.4	0.901	---	0.69	0.302	128.9	312.0	-1.7	0.258
4-3340	4-4080	0.471	80.2	18.3	-1.86	1.295	108.1	0.739	3.455	317.1	522.9	0.901	---	0.65	0.292	126.6	311.0	-1.7	0.248
4-3340	4-4100	0.469	80.4	18.4	-1.82	1.294	108.1	0.735	3.398	317.0	524.3	0.901	---	0.61	0.283	124.2	309.8	-1.8	0.239
4-3340	4-4120	0.469	80.5	18.5	-1.78	1.292	108.1	0.731	3.351	316.8	525.7	0.900	---	0.58	0.275	121.8	308.6	-1.8	0.231
4-3340	4-4140	0.468	80.8	18.6	-1.75	1.291	108.1	0.728	3.311	316.5	527.0	0.899	---	0.55	0.267	119.4	307.4	-1.9	0.224
4-3340	4-4160	0.468	81.0	18.7	-1.72	1.289	108.2	0.726	3.277	316.3	528.3	0.898	---	0.53	0.261	117.0	306.1	-1.9	0.218
4-3340	4-4180	0.469	81.4	18.8	-1.70	1.288	108.3	0.724	3.249	315.9	529.5	0.896	---	0.51	0.255	114.6	304.8	-2.0	0.213
4-3340	4-4200	0.470	81.7	18.9	-1.67	1.287	108.5	0.723	3.225	315.6	530.7	0.894	---	0.49	0.250	112.1	303.4	-2.0	0.209
4-3340	4-4220	0.472	82.1	19.0	-1.65	1.287	108.6	0.722	3.205	315.1	531.8	0.892	---	0.47	0.245	109.7	302.1	-2.1	0.205
4-3340	4-4240	0.474	82.5	19.1	-1.63	1.286	108.8	0.721	3.188	314.7	532.9	0.890	---	0.45	0.241	107.3	300.8	-2.1	0.202
4-3340	4-4260	0.477	83.0	19.2	-1.61	1.286	109.0	0.720	3.175	314.2	534.0	0.888	---	0.44	0.237	104.9	299.5	-2.2	0.199
4-3340	4-4280	0.479	83.5	19.3	-1.59	1.285	109.2	0.720	3.164	313.7	535.0	0.885	---	0.43	0.234	102.5	298.3	-2.2	0.197
4-3340	4-4300	0.483	84.0	19.4	-1.58	1.285	109.4	0.721	3.156	313.1	536.0	0.882	---	0.41	0.232	100.2	297.1	-2.2	0.196
4-3340	4-4320	0.486	84.5	19.5	-1.56	1.285	109.7	0.721	3.149	312.5	536.9	0.878	---	0.40	0.230	97.8	296.0	-2.3	0.195
4-3340	4-4340	0.490	85.1	19.6	-1.55	1.284	109.9	0.722	3.145	311.9	537.8	0.875	---	0.39	0.228	95.6	295.0	-2.3	0.195
4-3340	4-4360	0.494	85.6	19.6	-1.53	1.284	110.2	0.723	3.141	311.2	538.7	0.871	---	0.38	0.227	93.3	294.0	-2.4	0.195
4-3340	4-4380	0.499	86.2	19.7	-1.52	1.284	110.5	0.724	3.140	310.5	539.6	0.867	---	0.37	0.226	91.1	293.2	-2.4	0.195
4-3340	4-4400	0.504	86.8	19.8	-1.51	1.284	110.8	0.725	3.140	309.8	540.4	0.863	5.417	0.36	0.225	89.0	292.4	-2.4	0.196
4-3340	4-4420	0.509	87.5	19.9	-1.49	1.284	111.2	0.727	3.141	309.0	541.2	0.858	5.423	0.36	0.225	86.9	291.7	-2.4	0.197
4-3340	4-4440	0.514	88.1	20.0	-1.48	1.284	111.5	0.728	3.142	308.3	541.9	0.853	5.432	0.35	0.225	84.9	291.1	-2.5	0.198
4-3340	4-4460	0.520	88.8	20.1	-1.47	1.284	111.9	0.730	3.145	307.5	542.6	0.848	5.442	0.34	0.225	82.9	290.6	-2.5	0.200
4-3340	4-4480	0.526	89.5	20.1	-1.46	1.285	112.2	0.732	3.149	306.6	543.3	0.843	5.455	0.34	0.225	81.0	290.2	-2.5	0.202
4-3340	4-4500	0.532	90.2	20.2	-1.45	1.285	112.6	0.734	3.154	305.8	544.0	0.838	5.470	0.33	0.226	79.1	289.9	-2.5	0.204
4-3340	4-4520	0.538	90.9	20.3	-1.44	1.285	113.0	0.737	3.159	304.9	544.7	0.832	5.486	0.33	0.227	77.3	289.6	-2.5	0.206
4-3340	4-4540	0.545	91.6	20.3	-1.43	1.285	113.4	0.739	3.165	304.0	545.3	0.826	5.504	0.32	0.228	75.6	289.5	-2.6	0.209
4-3340	4-4560	0.552	92.3	20.4	-1.42	1.285	113.8	0.741	3.171	303.1	545.9	0.820	5.523	0.32	0.229	73.9	289.4	-2.6	0.211
4-3340	4-4580	0.559	93.0	20.5	-1.41	1.286	114.3	0.744	3.178	302.2	546.5	0.814	5.543	0.31	0.230	72.2	289.5	-2.6	0.214
4-3340	4-4600	0.566	93.7	20.5	-1.40	1.286	114.7	0.747	3.186	301.2	547.0	0.807	5.565	0.31	0.231	70.6	289.6	-2.6	0.217
4-3340	4-4620	0.574	94.5	20.6	-1.39	1.286	115.2	0.749	3.194	300.2	547.5	0.800	5.588	0.30	0.233	69.0	289.7	-2.6	0.220
4-3340	4-4640	0.582	95.2	20.6	-1.38	1.287	115.7	0.752	3.202	299.2	548.1	0.793	5.612	0.30	0.234	67.5	290.0	-2.6	0.223
4-3340	4-4660	0.590	96.0	20.6	-1.38	1.287	116.1	0.755	3.211	298.2	548.6	0.786	5.637	0.30	0.236	66.1	290.3	-2.6	0.226
4-3340	4-4680	0.598	96.7	20.7	-1.37	1.287	116.6	0.758	3.220	297.2	549.0	0.778	5.663	0.30	0.237	64.6	290.6	-2.6	0.229
4-3340	4-4700	0.607	97.5	20.7	-1.36	1.288	117.1	0.762	3.230	296.1	549.5	0.770	5.690	0.29	0.239	63.3	291.1	-2.6	0.232
4-3340	4-4720	0.616	98.2	20.7	-1.35	1.288	117.6	0.765	3.240	295.0	549.9	0.762	5.717	0.29	0.241	61.9	291.6	-2.6	0.236
4-3340	4-4740	0.624	99.0	20.7	-1.34	1.288	118.2	0.768	3.250	293.9	550.3	0.754	5.746	0.29	0.243	60.6	292.1	-2.6	0.239
4-3340	4-4760	0.634	99.7	20.8	-1.33	1.289	118.7	0.771	3.260	292.8	550.7	0.745	5.775	0.29	0.245	59.4	292.7	-2.6	0.242
4-3340	4-4780	0.643	100.5	20.8	-1.33	1.289	119.2	0.775	3.271	291.7	551.1	0.737	5.805	0.29	0.247	58.1	293.3	-2.6	0.246
4-3340	4-4800	0.653	101.3	20.8	-1.32	1.290	119.8	0.778	3.282	290.5	551.5	0.728	5.836	0.28	0.249	56.9	294.0	-2.6	0.249
4-3340	4-4820	0.662	102.0	20.8	-1.31	1.290	120.4	0.782	3.293	289.3	551.8	0.718	5.867	0.28	0.251	55.7	294.8	-2.6	0.253
4-3340	4-4840	0.672	102.8	20.8	-1.30	1.290	120.9	0.786	3.304	288.2	552.1	0.709	5.899	0.28	0.253	54.6	295.5	-2.5	0.257
4-3340	4-4860	0.683	103.6	20.8	-1.30	1.291	121.5	0.789	3.315	287.0	552.4	0.699	5.932	0.28	0.255	53.5	296.3	-2.5	0.260
4-3340	4-4880	0.693	104.3	20.7	-1.29	1.291	122.1	0.793	3.327	285.7	552.7	0.689	5.965	0.28	0.257	52.4	297.2	-2.5	0.264
4-3340	4-4900	0.704	105.1	20.7	-1.28	1.292	122.7	0.797	3.339	284.5	553.0	0.679	5.999	0.28	0.259	51.3	298.1	-2.5	0.268
4-3340	4-4920	0.714	105.9	20.7	-1.27	1.292	123.4	0.801	3.351	283.2	553.2	0.668	6.033	0.28	0.262	50.3	299.0	-2.5	0.272
4-3340	4-4940	0.725	106.7	20.7	-1.27	1.292	124.0	0.805	3.363	282.0	553.5	0.657	6.068	0.28	0.264	49.2	300.0	-2.5	0.276
4-3340	4-3750	0.626	88.5	26.5	1.46	1.430	111.7	1.06613.382		318.1	487.7	0.881	---	-2.71	0.676	157.6	318.9	-3.1	0.630
4-3350	4-3770	0.597	87.7	27.8	1.97	1.410	110.7	1.01751.520		319.0	490.2	0.890	---	-3.22	0.634	156.2	319.2	-3.4	0.587
4-3350	4-3790	0.572	86.8	29.6	2.72	1.393	109.8	0.97536.524		319.8	492.7	0.897	---	-3.96	0.595	154.7	319.4	-3.8	0.549
4-3350	4-3810	0.553	86.0	32.6	3.90	1.379	109.0	0.93914.871		320.6	495.2	0.904	---	-5.14	0.560	153.2	319.5	-4.5	0.514
4-3350	4-3830	0.541	85.4	38.1	6.08	1.367	108.3	0.908	9.869	321.4	497.5	0.910	---	-7.30	0.529	151.7	319.4	-5.8	0.483
4-3350	4-3850	0.557	86.2	50.6	11.36	1.356	107.7	0.880	7.658	322.1	499.8	0.915	---	-12.58	0.500	150.1	319.1	-8.8	0.457
4-3350	4-3870	0.907	185.0	77.2	39.48	1.347	107.1	0.857	6.419	322.8	502.1	0.920	---	-40.69	0.473	148.4	313.3	-21.9	0.482
4-3350	4-3890	0.701	95.8	-30.5	-26.19	1.338	106.7	0.836	5.631	323.1	504.3	0.923	---	24.98	0.449	146.7	315.8	12.1	0.425
4-3350	4-3910	0.522	86.5	-6.1	-11.61	1.331	106.3	0.818	5.090	323.7	506.4	0.927	---	10.41	0.427	144.8	318.1	4.6	0.382
4-3350	4-3930	0.485	84.5	2.6	-7.73	1.325	105.9	0.802	4.698	324.1	508.4	0.930	---	6.53	0.407	143.0	318.2	2.4	0.359
4-3350	4-3950	0.467	83.5	6.9	-5.95	1.320	105.6	0.788	4.403	324.5	510.4	0.932	---	4.76	0.388	141.1	317.9	1.4	0.339
4-3350	4-3970	0.455	82.9	9.4	-4.93	1.315	105.3	0.776	4.175	324.8	512.3	0.934	---	3.75	0.371	139.1	317.4	0.8	0.322
4-3350	4-3990	0.446	82.5	11.1	-4.27	1.311	105.1	0.766	3.994	325.0	514.1	0.936	---	3.10	0.355	137.1	316.8	0.4	0.306
4-3350	4-4010	0.439	82.2	12.2	-3.80	1.307	104.9	0.756	3.848	325.2	515.9	0.937	---	2.64	0.341	135.0	316.1	0.1	0.291
4-3350	4-4030	0.434	82.0	13.1	-3.46	1.304	104.8	0.748	3.730	325.3	517.6	0.938	---	2.30	0.328	132.8	315.4	-0.2	0.278
4-3350	4-4050	0.429	81.8	13.8	-3.19	1.301	104.7	0.741	3.632	325.3	519.2	0.939	---	2.04	0.316	130.6	314.5	-0.3	0.266

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3350	4-4070	0.426	81.8	14.4	-2.98	1.299	104.6	0.735	3.551	325.3	520.8	0.939	---	1.84	0.305	128.4	313.5	-0.5	0.255
4-3350	4-4090	0.423	81.8	14.9	-2.81	1.297	104.6	0.730	3.483	325.3	522.3	0.939	---	1.67	0.296	126.1	312.5	-0.6	0.245
4-3350	4-4110	0.421	81.9	15.3	-2.66	1.295	104.6	0.726	3.426	325.2	523.7	0.939	---	1.53	0.287	123.9	311.4	-0.8	0.236
4-3350	4-4130	0.420	82.1	15.6	-2.54	1.293	104.6	0.722	3.378	325.0	525.1	0.939	---	1.42	0.279	121.5	310.2	-0.9	0.228
4-3350	4-4150	0.419	82.3	16.0	-2.44	1.292	104.6	0.719	3.338	324.8	526.5	0.938	---	1.32	0.271	119.2	309.0	-1.0	0.221
4-3350	4-4170	0.419	82.6	16.3	-2.35	1.291	104.7	0.716	3.303	324.5	527.8	0.937	---	1.24	0.265	116.8	307.7	-1.1	0.215
4-3350	4-4190	0.420	82.9	16.5	-2.27	1.290	104.8	0.714	3.275	324.2	529.0	0.936	---	1.16	0.259	114.5	306.4	-1.2	0.210
4-3350	4-4210	0.420	83.3	16.8	-2.20	1.289	104.9	0.713	3.251	323.8	530.2	0.934	---	1.10	0.254	112.1	305.1	-1.2	0.205
4-3350	4-4230	0.422	83.7	17.0	-2.13	1.288	105.1	0.711	3.230	323.5	531.4	0.933	---	1.04	0.250	109.7	303.8	-1.3	0.201
4-3350	4-4250	0.423	84.1	17.2	-2.07	1.288	105.3	0.710	3.214	323.0	532.5	0.931	---	0.99	0.246	107.4	302.5	-1.4	0.198
4-3350	4-4270	0.425	84.6	17.4	-2.02	1.287	105.4	0.710	3.200	322.5	533.6	0.929	---	0.95	0.242	105.1	301.2	-1.5	0.195
4-3350	4-4290	0.427	85.2	17.6	-1.97	1.287	105.6	0.709	3.189	322.0	534.6	0.927	---	0.91	0.239	102.8	300.0	-1.6	0.193
4-3350	4-4310	0.430	85.7	17.8	-1.93	1.286	105.9	0.709	3.180	321.5	535.6	0.924	---	0.87	0.237	100.5	298.8	-1.6	0.192
4-3350	4-4330	0.433	86.3	18.0	-1.89	1.286	106.1	0.710	3.174	320.9	536.6	0.921	---	0.84	0.235	98.3	297.7	-1.7	0.191
4-3350	4-4350	0.436	87.0	18.2	-1.85	1.286	106.4	0.710	3.169	320.3	537.5	0.918	---	0.81	0.233	96.1	296.7	-1.8	0.190
4-3350	4-4370	0.440	87.6	18.3	-1.82	1.286	106.6	0.711	3.166	319.7	538.4	0.915	---	0.78	0.232	93.9	295.7	-1.8	0.190
4-3350	4-4390	0.444	88.3	18.5	-1.79	1.286	106.9	0.712	3.164	319.0	539.3	0.912	---	0.76	0.231	91.8	294.8	-1.9	0.190
4-3350	4-4410	0.448	89.0	18.6	-1.76	1.286	107.2	0.713	3.163	318.3	540.1	0.909	5.418	0.73	0.230	89.8	294.0	-1.9	0.191
4-3350	4-4430	0.453	89.7	18.8	-1.73	1.286	107.5	0.714	3.164	317.6	540.9	0.905	5.423	0.71	0.230	87.8	293.3	-2.0	0.192
4-3350	4-4450	0.457	90.4	18.9	-1.70	1.286	107.8	0.715	3.166	316.8	541.7	0.901	5.431	0.69	0.230	85.8	292.6	-2.0	0.193
4-3350	4-4470	0.462	91.2	19.0	-1.68	1.286	108.2	0.717	3.169	316.0	542.4	0.897	5.441	0.67	0.230	83.9	292.1	-2.0	0.194
4-3350	4-4490	0.468	92.0	19.1	-1.65	1.286	108.5	0.719	3.172	315.2	543.1	0.892	5.452	0.66	0.230	82.1	291.7	-2.1	0.196
4-3350	4-4510	0.473	92.7	19.2	-1.63	1.286	108.9	0.720	3.177	314.4	543.8	0.888	5.466	0.64	0.231	80.3	291.3	-2.1	0.198
4-3350	4-4530	0.479	93.5	19.3	-1.61	1.286	109.3	0.722	3.182	313.5	544.5	0.883	5.481	0.63	0.231	78.5	291.1	-2.1	0.200
4-3350	4-4550	0.485	94.3	19.4	-1.59	1.287	109.7	0.724	3.188	312.7	545.2	0.878	5.497	0.62	0.232	76.9	290.9	-2.2	0.202
4-3350	4-4570	0.491	95.1	19.5	-1.57	1.287	110.1	0.727	3.194	311.8	545.8	0.873	5.515	0.60	0.233	75.2	290.8	-2.2	0.204
4-3350	4-4590	0.497	95.9	19.6	-1.55	1.287	110.5	0.729	3.201	310.9	546.4	0.868	5.534	0.59	0.234	73.6	290.8	-2.2	0.206
4-3350	4-4610	0.504	96.7	19.6	-1.53	1.287	110.9	0.731	3.208	309.9	547.0	0.862	5.555	0.58	0.236	72.1	290.8	-2.2	0.209
4-3350	4-4630	0.511	97.6	19.7	-1.51	1.288	111.3	0.734	3.216	309.0	547.5	0.856	5.576	0.57	0.237	70.6	290.9	-2.3	0.212
4-3350	4-4650	0.518	98.4	19.8	-1.49	1.288	111.8	0.736	3.225	308.0	548.1	0.850	5.599	0.56	0.239	69.2	291.2	-2.3	0.215
4-3350	4-4670	0.525	99.2	19.8	-1.48	1.288	112.2	0.739	3.233	307.0	548.6	0.844	5.623	0.56	0.240	67.8	291.4	-2.3	0.217
4-3350	4-4690	0.533	100.1	19.9	-1.46	1.289	112.7	0.742	3.242	306.0	549.1	0.837	5.647	0.55	0.242	66.4	291.8	-2.3	0.220
4-3350	4-4710	0.541	100.9	19.9	-1.44	1.289	113.2	0.745	3.252	305.0	549.6	0.831	5.673	0.54	0.243	65.1	292.1	-2.3	0.223
4-3350	4-4730	0.549	101.7	19.9	-1.43	1.289	113.6	0.747	3.261	303.9	550.0	0.824	5.699	0.53	0.245	63.8	292.6	-2.3	0.227
4-3350	4-4750	0.557	102.6	19.9	-1.41	1.290	114.1	0.750	3.271	302.8	550.5	0.816	5.726	0.53	0.247	62.5	293.1	-2.3	0.230
4-3350	4-4770	0.565	103.4	20.0	-1.40	1.290	114.6	0.753	3.282	301.8	550.9	0.809	5.754	0.52	0.249	61.3	293.6	-2.3	0.233
4-3350	4-4790	0.574	104.2	20.0	-1.38	1.290	115.2	0.757	3.292	300.7	551.3	0.801	5.783	0.52	0.251	60.1	294.3	-2.3	0.236
4-3350	4-4810	0.583	105.1	20.0	-1.37	1.291	115.7	0.760	3.303	299.5	551.7	0.793	5.812	0.51	0.253	59.0	294.9	-2.3	0.239
4-3350	4-4830	0.592	105.9	20.0	-1.35	1.291	116.2	0.763	3.314	298.4	552.1	0.785	5.842	0.51	0.255	57.9	295.6	-2.3	0.243
4-3350	4-4850	0.601	106.7	20.0	-1.34	1.292	116.8	0.766	3.325	297.3	552.4	0.777	5.873	0.51	0.257	56.8	296.3	-2.3	0.246
4-3350	4-4870	0.610	107.6	19.9	-1.33	1.292	117.3	0.770	3.336	296.1	552.8	0.768	5.904	0.50	0.259	55.7	297.1	-2.3	0.250
4-3350	4-4890	0.620	108.4	19.9	-1.31	1.292	117.9	0.773	3.348	294.9	553.1	0.759	5.936	0.50	0.261	54.7	297.9	-2.3	0.253
4-3350	4-4910	0.630	109.2	19.9	-1.30	1.293	118.5	0.777	3.359	293.7	553.4	0.750	5.968	0.50	0.263	53.6	298.8	-2.3	0.257
4-3350	4-4930	0.640	110.1	19.9	-1.29	1.293	119.0	0.780	3.371	292.5	553.7	0.741	6.001	0.49	0.265	52.6	299.7	-2.3	0.260
4-3350	4-4950	0.650	110.9	19.8	-1.27	1.294	119.6	0.784	3.383	291.3	554.0	0.731	6.034	0.49	0.267	51.7	300.6	-2.2	0.264
4-3360	4-3720	0.638	92.5	24.6	0.54	1.478	109.8	1.193	-4.711	323.7	481.2	0.907	---	-1.79	0.772	159.5	319.5	-2.7	0.721
4-3360	4-3740	0.601	91.3	25.0	0.69	1.451	108.7	1.124	-7.408	324.7	484.0	0.916	---	-1.93	0.720	158.2	319.9	-2.7	0.669
4-3360	4-3760	0.568	90.2	25.5	0.86	1.429	107.7	1.065	14.212	325.7	486.6	0.924	---	-2.09	0.673	156.9	320.1	-2.9	0.622
4-3360	4-3780	0.540	89.1	26.1	1.06	1.410	106.8	1.015	62.636	326.7	489.2	0.931	---	-2.27	0.631	155.5	320.4	-3.0	0.580
4-3360	4-3800	0.516	88.0	26.8	1.30	1.393	105.9	0.972	33.268	327.6	491.8	0.937	---	-2.50	0.593	154.1	320.5	-3.1	0.542
4-3360	4-3820	0.495	87.0	27.7	1.59	1.379	105.2	0.935	14.436	328.5	494.3	0.942	---	-2.78	0.558	152.6	320.7	-3.4	0.507
4-3360	4-3840	0.477	85.9	28.8	1.95	1.367	104.5	0.903	9.728	329.3	496.7	0.947	---	-3.14	0.527	151.0	320.7	-3.6	0.475
4-3360	4-3860	0.462	85.0	30.3	2.42	1.356	103.9	0.875	7.599	330.1	499.1	0.951	---	-3.59	0.498	149.4	320.7	-4.0	0.447
4-3360	4-3880	0.449	84.1	32.2	3.04	1.347	103.4	0.851	6.394	330.7	501.4	0.955	---	-4.21	0.472	147.7	320.5	-4.5	0.420
4-3360	4-3900	0.440	83.2	35.0	3.92	1.339	103.0	0.830	5.623	331.4	503.6	0.958	---	-5.08	0.448	146.0	320.3	-5.2	0.396
4-3360	4-3920	0.435	82.4	39.2	5.25	1.332	102.6	0.811	5.091	331.9	505.8	0.961	---	-6.40	0.427	144.2	320.0	-6.2	0.375
4-3360	4-3940	0.439	81.8	46.0	7.52	1.326	102.2	0.795	4.705	332.4	507.8	0.963	---	-8.66	0.407	142.3	319.6	-8.0	0.356
4-3360	4-3960	0.470	82.3	58.7	12.18	1.321	101.9	0.781	4.413	332.8	509.8	0.965	---	-13.31	0.388	140.4	318.7	-11.6	0.343
4-3360	4-3980	0.656	135.6	84.3	26.79	1.316	101.6	0.769	4.187	333.2	511.8	0.967	---	-27.91	0.372	138.4	315.5	-21.2	0.354
4-3360	4-4000	1.304	146.6	-60.7	-67.06	1.312	101.7	0.759	4.008	332.9	513.6	0.966	---	65.95	0.356	136.5	300.8	26.2	0.465
4-3360	4-4020	0.563	90.8	-31.0	-20.92	1.309	101.4	0.749	3.864	333.4	515.4	0.969	---	19.82	0.342	134.4	314.6	13.4	0.308
4-3360	4-4040	0.452	85.3	-13.4	-12.20	1.306	101.2	0.741	3.746	333.6	517.1	0.969	---	11.10	0.330	132.2	315.5	7.5	0.281
4-3360	4-4060	0.417	83.6	-4.6	-8.77	1.303	101.1	0.734	3.649	333.7	518.8	0.970	---	7.69	0.318	130.1	315.1	4.9	0.266
4-3360	4-4080	0.401	82.8	0.6	-6.95	1.300	101.0	0.728	3.568	333.7	520.4	0.970	---	5.88	0.307	127.9	314.4	3.4	0.254
4-3360	4-4100	0.392	82.4	4.0	-5.83	1.298	101.0	0.723	3.501	333.7	521.9	0.970	---	4.77	0.298	125.6	313.4	2.5	0.243
4-3360	4-4120	0.387	82.2	6.3	-5.06	1.297	101.0	0.718	3.444	333.6	523.4	0.970	---	4.01	0.289	123.4	312.4	1.9	0.234
4-3360	4-4140	0.383	82.2	8.1	-4.51	1.295	101.0	0.714	3.397	333.4	524.8	0.970	---	3.46	0.281	121.1	311.3	1.4	0.226
4-3360	4-4160	0.381	82.3	9.5	-4.09	1.294	101.1	0.711	3.356	333.2	526.2	0.969	---	3.05	0.274	118.8	310.1	1.0	0.219
4-3360	4-4180	0.379	82.5	10.6	-3.75	1.292	101.2	0.708	3.322	333.0	527.5	0.969	---	2.73	0.268	116.5	308.9	0.7	0.213
4-3360	4-4200	0.378	82.8	11.5	-3.49	1.291	101.3	0.706	3.294	332.7	528.7	0.968	---	2.47	0.262	114.2	307.6	0.4	0.207
4-3360	4-4220	0.378	83.2	12.3	-3.26	1.291	101.4	0.704	3.270	332.3	530.0	0.967	---	2.26	0.257	111.9	306.3	0.2	0.202
4-3360	4-4240	0.379	83.6	13.0	-3.08	1.290	101.5	0.703	3.250	332.0	531.1	0.965	---	2.08	0.253	109.6	305.1	-0.0	0.198
4-3360	4-4260	0.379	84.1	13.6	-2.92	1.289	101.7	0.702	3.233	331.5	532.2	0.964	---	1.93	0.249	107.3	303.8	-0.2	0.195
4-3360	4-4280	0.381	84.7	14.1	-2.78	1.289	101.9	0.701	3.220	331.1	533.3	0.962	---	1.80	0.246	105.0	302.5	-0.4	0.192
4-3360	4-4300	0.382	85.2	14.6	-2.66	1.288	102.1	0.701	3.209	330.6	534.4	0.961	---	1.69	0.243	102.8	301.3	-0.5	0.190
4-3360	4-4320	0.384	85.9	15.0	-2.55	1.288	102.3	0.700	3.200	330.0	535.4	0.959	---	1.60	0.241	100.6	300.1	-0.6	0.188
4-3360	4-4340	0.387	86.6	15.4	-2.46	1.288	102.5	0.700	3.193	329.5	536.4	0.957	---	1.51	0.239	98.4	299.0	-0.8	0.187
4-3360	4-4360	0.389	87.3	15.7	-2.37	1.288	102.8	0.701	3.189	328.9	537.3	0.954	---	1.43	0.237	96.3	298.0	-0.9	0.186
4-3360	4-4380	0.392	88.0	16.1	-2.30	1.287	103.0	0.701	3.185	328.2	538.2	0.952	---	1.37	0.236	94.2	297.0	-1.0	0.186
4-3360	4-4400	0.395	88.8	16.4	-2.23	1.287	103.3	0.702	3.184	327.6	539.1	0.949	---	1.31	0.235	92.2	296.1	-1.1	0.186

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3370	4-4750	0.430	105.2	17.6	-1.74	1.293	105.9	0.721	3.299	321.7	550.2	0.922	5.676	1.15	0.252	66.3	294.4	-1.6	0.213
4-3370	4-4770	0.437	106.3	17.7	-1.70	1.293	106.4	0.723	3.309	320.7	550.7	0.917	5.701	1.12	0.254	65.2	294.9	-1.6	0.216
4-3370	4-4790	0.443	107.4	17.8	-1.67	1.294	106.8	0.725	3.319	319.7	551.2	0.912	5.727	1.10	0.256	64.1	295.4	-1.6	0.219
4-3370	4-4810	0.450	108.5	17.8	-1.63	1.294	107.3	0.728	3.330	318.6	551.6	0.906	5.753	1.08	0.258	63.0	296.0	-1.6	0.222
4-3370	4-4830	0.457	109.6	17.9	-1.60	1.294	107.8	0.730	3.340	317.5	552.0	0.901	5.780	1.05	0.259	61.9	296.6	-1.7	0.225
4-3370	4-4850	0.464	110.7	17.9	-1.56	1.295	108.3	0.733	3.351	316.5	552.5	0.895	5.807	1.04	0.261	60.9	297.2	-1.7	0.227
4-3370	4-4870	0.472	111.8	17.9	-1.53	1.295	108.7	0.736	3.362	315.4	552.9	0.889	5.836	1.02	0.263	59.9	297.9	-1.7	0.230
4-3370	4-4890	0.480	112.8	17.9	-1.50	1.295	109.2	0.738	3.374	314.2	553.3	0.883	5.864	1.00	0.265	58.9	298.6	-1.7	0.233
4-3370	4-4910	0.487	113.9	17.9	-1.47	1.296	109.8	0.741	3.385	313.1	553.7	0.876	5.893	0.99	0.267	58.0	299.4	-1.7	0.236
4-3370	4-4930	0.496	114.9	17.9	-1.44	1.296	110.3	0.744	3.396	312.0	554.0	0.870	5.923	0.97	0.269	57.1	300.2	-1.7	0.239
4-3370	4-4950	0.504	116.0	17.9	-1.41	1.297	110.8	0.747	3.408	310.8	554.4	0.863	5.953	0.96	0.271	56.2	301.0	-1.7	0.242
4-3370	4-4970	0.512	117.0	17.8	-1.38	1.297	111.3	0.750	3.420	309.6	554.7	0.856	5.984	0.95	0.273	55.3	301.9	-1.7	0.246
4-3380	4-3700	0.608	94.6	24.0	0.25	1.536	103.1	1.369	-2.619	337.4	474.2	0.966	---	-1.47	0.875	160.6	320.8	-2.5	0.818
4-3380	4-3720	0.564	92.8	24.2	0.31	1.501	101.9	1.267	-3.641	338.7	477.1	0.972	---	-1.52	0.811	159.5	321.2	-2.5	0.754
4-3380	4-3740	0.527	91.0	24.5	0.38	1.471	100.9	1.182	-5.364	340.0	480.0	0.978	---	-1.57	0.755	158.2	321.5	-2.5	0.698
4-3380	4-3760	0.496	89.2	24.7	0.45	1.446	99.9	1.111	-8.837	341.2	482.9	0.983	---	-1.63	0.704	157.0	321.8	-2.6	0.647
4-3380	4-3780	0.469	87.3	25.0	0.53	1.425	99.0	1.051	19.293	342.4	485.7	0.987	---	-1.69	0.659	155.6	322.0	-2.7	0.602
4-3380	4-3800	0.445	85.5	25.3	0.62	1.407	98.2	1.000	83.815	343.5	488.5	0.990	---	-1.76	0.618	154.2	322.2	-2.7	0.561
4-3380	4-3820	0.426	83.7	25.6	0.71	1.391	97.5	0.957	23.018	344.6	491.2	0.993	---	-1.84	0.581	152.8	322.3	-2.8	0.524
4-3380	4-3840	0.409	82.0	25.9	0.81	1.378	96.9	0.920	12.397	345.6	493.8	0.996	---	-1.92	0.547	151.3	322.4	-2.9	0.490
4-3380	4-3860	0.394	80.4	26.3	0.91	1.366	96.3	0.888	8.890	346.5	496.3	0.998	---	-2.01	0.517	149.7	322.3	-3.0	0.460
4-3380	4-3880	0.382	78.9	26.7	1.03	1.356	95.8	0.860	7.152	347.4	498.8	1.000	---	-2.12	0.489	148.1	322.3	-3.1	0.432
4-3380	4-3900	0.371	77.5	27.2	1.16	1.347	95.4	0.836	6.122	348.1	501.2	1.001	---	-2.23	0.464	146.4	322.1	-3.3	0.406
4-3380	4-3920	0.362	76.1	27.7	1.31	1.340	95.0	0.816	5.444	348.8	503.5	1.002	---	-2.36	0.441	144.7	321.8	-3.5	0.383
4-3380	4-3940	0.354	75.0	28.3	1.48	1.333	94.7	0.798	4.968	349.4	505.7	1.003	---	-2.51	0.420	142.9	321.5	-3.7	0.362
4-3380	4-3960	0.348	73.9	29.0	1.66	1.327	94.4	0.783	4.617	349.9	507.8	1.004	---	-2.69	0.401	141.0	321.1	-3.9	0.342
4-3380	4-3980	0.342	72.9	29.8	1.88	1.322	94.2	0.769	4.350	350.4	509.9	1.005	---	-2.88	0.384	139.1	320.6	-4.2	0.324
4-3380	4-4000	0.338	72.1	30.8	2.12	1.318	94.0	0.757	4.142	350.7	511.8	1.005	---	-3.12	0.367	137.1	320.1	-4.5	0.308
4-3380	4-4020	0.334	71.3	31.9	2.41	1.314	93.8	0.747	3.976	351.0	513.7	1.006	---	-3.39	0.353	135.1	319.4	-4.9	0.293
4-3380	4-4040	0.332	70.7	33.3	2.76	1.311	93.7	0.738	3.841	351.3	515.5	1.006	---	-3.72	0.340	133.0	318.7	-5.3	0.280
4-3380	4-4060	0.330	70.1	35.0	3.18	1.308	93.6	0.730	3.731	351.4	517.2	1.006	---	-4.13	0.327	130.9	317.9	-5.9	0.267
4-3380	4-4080	0.329	69.6	37.0	3.70	1.305	93.6	0.724	3.641	351.5	518.9	1.006	---	-4.64	0.316	128.7	317.0	-6.6	0.256
4-3380	4-4100	0.330	69.1	39.7	4.36	1.303	93.5	0.718	3.565	351.5	520.5	1.006	---	-5.29	0.306	126.5	316.0	-7.4	0.246
4-3380	4-4120	0.333	68.5	43.1	5.24	1.301	93.5	0.713	3.502	351.5	522.0	1.006	---	-6.15	0.297	124.3	314.9	-8.5	0.238
4-3380	4-4140	0.340	67.8	47.6	6.46	1.299	93.6	0.708	3.449	351.4	523.5	1.006	---	-7.36	0.289	122.1	313.8	-10.0	0.231
4-3380	4-4160	0.354	66.7	53.9	8.27	1.298	93.6	0.704	3.404	351.3	524.9	1.006	---	-9.15	0.282	119.9	312.6	-12.2	0.225
4-3380	4-4180	0.383	64.3	63.2	11.22	1.297	93.7	0.701	3.366	351.1	526.2	1.006	---	-12.09	0.275	117.6	311.2	-15.6	0.223
4-3380	4-4200	0.455	54.7	77.3	16.86	1.296	93.8	0.698	3.335	350.9	527.5	1.006	---	-17.72	0.269	115.3	309.4	-21.2	0.229
4-3380	4-4220	0.685	266.7	78.0	31.29	1.295	93.8	0.696	3.308	350.7	528.8	1.006	---	-32.13	0.264	113.1	305.9	-31.3	0.269
4-3380	4-4240	1.572	247.4	34.2	85.95	1.294	93.7	0.694	3.286	351.0	530.0	1.006	---	-86.77	0.259	110.8	295.9	-32.9	0.482
4-3380	4-4260	0.746	96.1	-58.6	-34.92	1.293	94.4	0.693	3.267	349.3	531.2	1.004	---	34.11	0.255	108.7	301.9	27.7	0.269
4-3380	4-4280	0.489	85.0	-36.7	-19.20	1.293	94.5	0.691	3.252	349.1	532.3	1.003	---	18.40	0.252	106.5	303.5	18.2	0.216
4-3380	4-4300	0.407	82.5	-23.3	-13.23	1.292	94.6	0.690	3.240	348.7	533.3	1.003	---	12.45	0.249	104.3	303.1	12.5	0.200
4-3380	4-4320	0.372	81.7	-14.5	-10.16	1.292	94.8	0.690	3.230	348.2	534.4	1.002	---	9.39	0.246	102.1	302.2	9.2	0.192
4-3380	4-4340	0.354	81.1	-8.5	-8.29	1.292	95.0	0.689	3.222	347.7	536.4	1.001	---	7.53	0.244	100.0	301.3	7.0	0.188
4-3380	4-4360	0.344	82.0	-4.1	-7.04	1.291	95.3	0.689	3.217	347.1	536.4	1.001	---	6.30	0.243	98.0	300.3	5.5	0.186
4-3380	4-4380	0.339	82.6	-0.7	-6.14	1.291	95.5	0.689	3.213	346.5	537.3	1.000	---	5.41	0.241	96.0	299.3	4.4	0.184
4-3380	4-4400	0.336	83.3	1.9	-5.46	1.291	95.8	0.689	3.210	345.9	538.2	0.998	---	4.75	0.240	94.0	298.4	3.5	0.183
4-3380	4-4420	0.334	84.1	4.0	-4.93	1.291	96.0	0.689	3.209	345.2	539.1	0.997	---	4.23	0.240	92.1	297.6	2.8	0.182
4-3380	4-4440	0.333	85.0	5.7	-4.51	1.291	96.3	0.690	3.210	344.5	539.9	0.996	---	3.82	0.239	90.2	296.8	2.3	0.182
4-3380	4-4460	0.334	86.0	7.2	-4.16	1.291	96.6	0.690	3.211	343.8	540.7	0.995	5.428	3.48	0.239	88.4	296.2	1.8	0.183
4-3380	4-4480	0.334	87.1	8.4	-3.87	1.291	96.9	0.691	3.214	343.1	541.5	0.993	5.434	3.20	0.239	86.6	295.6	1.4	0.183
4-3380	4-4500	0.336	88.2	9.5	-3.62	1.291	97.2	0.692	3.217	342.3	542.3	0.991	5.442	2.97	0.239	84.9	295.0	1.1	0.184
4-3380	4-4520	0.337	89.3	10.4	-3.40	1.292	97.5	0.693	3.221	341.6	543.0	0.990	5.452	2.77	0.240	83.3	294.6	0.8	0.185
4-3380	4-4540	0.340	90.5	11.3	-3.21	1.292	97.9	0.694	3.226	340.8	543.7	0.988	5.464	2.59	0.240	81.7	294.2	0.5	0.186
4-3380	4-4560	0.342	91.7	12.0	-3.05	1.292	98.2	0.695	3.232	339.9	544.4	0.986	5.477	2.44	0.241	80.1	294.0	0.3	0.188
4-3380	4-4580	0.345	92.9	12.6	-2.90	1.292	98.6	0.696	3.238	339.1	545.1	0.984	5.492	2.31	0.242	78.6	293.8	0.1	0.190
4-3380	4-4600	0.348	94.2	13.2	-2.77	1.292	98.9	0.698	3.245	338.2	545.7	0.981	5.508	2.19	0.243	77.2	293.7	-0.1	0.191
4-3380	4-4620	0.351	95.4	13.7	-2.65	1.293	99.3	0.699	3.252	337.3	546.4	0.979	5.525	2.08	0.244	75.7	293.6	-0.3	0.193
4-3380	4-4640	0.355	96.7	14.1	-2.54	1.293	99.7	0.700	3.260	336.4	547.0	0.976	5.543	1.99	0.246	74.4	293.7	-0.4	0.195
4-3380	4-4660	0.359	98.0	14.5	-2.44	1.293	100.1	0.702	3.268	335.5	547.6	0.973	5.562	1.90	0.247	73.1	293.8	-0.5	0.197
4-3380	4-4680	0.363	99.3	14.9	-2.35	1.294	100.5	0.704	3.276	334.6	548.2	0.971	5.582	1.83	0.248	71.8	293.9	-0.6	0.200
4-3380	4-4700	0.367	100.6	15.2	-2.27	1.294	100.9	0.706	3.285	333.6	548.7	0.967	5.603	1.76	0.250	70.5	294.2	-0.7	0.202
4-3380	4-4720	0.372	101.9	15.5	-2.19	1.294	101.3	0.707	3.295	332.7	549.3	0.964	5.625	1.70	0.251	69.3	294.5	-0.8	0.204
4-3380	4-4740	0.377	103.2	15.7	-2.12	1.295	101.7	0.709	3.304	331.7	549.8	0.961	5.648	1.64	0.253	68.2	294.8	-0.9	0.207
4-3380	4-4760	0.382	104.5	15.9	-2.05	1.295	102.1	0.711	3.314	330.7	550.3	0.957	5.671	1.59	0.255	67.0	295.2	-1.0	0.209
4-3380	4-4780	0.387	105.8	16.1	-1.98	1.295	102.6	0.713	3.324	329.7	550.8	0.953	5.695	1.54	0.257	65.9	295.7	-1.1	0.212
4-3380	4-4800	0.392	107.1	16.3	-1.92	1.296	103.0	0.715	3.335	328.7	551.3	0.949	5.720	1.49	0.258	64.9	296.2	-1.1	0.214
4-3380	4-4820	0.398	108.4	16.4	-1.87	1.296	103.5	0.717	3.345	327.6	551.8	0.945	5.745	1.45	0.260	63.8	296.7	-1.2	0.217
4-3380	4-4840	0.404	109.6	16.5	-1.81	1.296	103.9	0.720	3.356	326.8	552.2	0.941	5.771	1.41	0.262	62.8	297.3	-1.2	0.219
4-3380	4-4860	0.410	110.9	16.6	-1.76	1.297	104.4	0.722	3.367	325.5	552.7	0.936	5.798	1.38	0.264	61.9	297.9	-1.3	0.222
4-3380	4-4880	0.417	112.2	16.7	-1.72	1.297	104.9	0.724	3.378	324.4	553.1	0.932	5.825	1.35	0.266	60.9	298.6	-1.3	0.225
4-3380	4-4900	0.423	113.4	16.7	-1.67	1.297	105.3	0.727	3.389	323.3	553.5	0.927	5.852	1.32	0.268	60.0	299.3	-1.3	0.228
4-3380	4-4920	0.430	114.6	16.7	-1.62	1.298	105.8	0.729	3.401	322.2	553.9	0.922	5.880	1.29	0.270	59.1	300.1	-1.4	0.230
4-3380	4-4940	0.437	115.9	16.7	-1.58	1.298	106.3	0.732	3.413	321.1	554.3	0.916	5.909	1.26	0.272	58.2	300.9	-1.4	0.233
4-3380	4-4960	0.444	117.1	16.7	-1.54	1.299	106.8	0.734	3.424	319.9	554.7	0.911	5.938	1.24	0.274	57.3	301.7	-1.4	0.236
4-3380	4-4980	0.452	118.3	16.7	-1.50	1.299	107.3	0.737	3.436	318.8	555.0	0.905	5.968	1.22	0.276	56.5	302.6	-1.4	0.239
4-3390	4-3690	0.606	93.4	23.9	0.19	1.570	99.1	1.477	-2.072	344.8	471.0	0.988	---	-1.41	0.931	161.2	321.3	-2.4	0.871
4-3390	4-3710	0.559	91.2	24.1	0.24	1.529	97.9	1.353	-2.809	346.2	474.1	0.992	---	-1.44	0.860	160.1	321.7	-2.4	0.801
4-3390	4-3730	0.520	89.0	24.3	0.29	1.495	96.9	1.251	-3.958	347.6	477.1	0.996	---	-1.47	0.797	158.9	322.0	-2.5	0.738

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3390	4-3750	0.487	86.6	24.5	0.35	1.466	96.0	1.167	-5.968	348.9	480.1	0.999	---	-1.51	0.742	157.7	322.3	-2.5	0.683
4-3390	4-3770	0.460	8413	24.6	0.41	1.442	95.1	1.097	10.318	350.3	483.1	1.001	---	-1.55	0.692	156.4	322.5	-2.5	0.634
4-3390	4-3790	0.436	82.0	24.8	0.47	1.422	94.3	1.038	26.459	351.5	486.0	1.003	---	-1.59	0.648	155.1	322.7	-2.6	0.589
4-3390	4-3810	0.417	79.8	24.9	0.54	1.404	93.6	0.988	83.769	352.7	488.8	1.005	---	-1.64	0.608	153.7	322.8	-2.7	0.549
4-3390	4-3830	0.400	77.7	25.1	0.60	1.389	93.0	0.946	18.483	353.8	491.6	1.006	---	-1.69	0.571	152.2	322.8	-2.7	0.513
4-3390	4-3850	0.386	75.7	25.2	0.68	1.376	92.4	0.909	11.112	354.9	494.3	1.007	---	-1.74	0.539	150.7	322.8	-2.8	0.480
4-3390	4-3870	0.374	73.8	25.4	0.76	1.365	91.9	0.878	8.287	355.9	496.8	1.007	---	-1.80	0.509	149.1	322.8	-2.9	0.451
4-3390	4-3890	0.364	72.0	25.6	0.84	1.355	91.5	0.852	6.802	356.7	499.3	1.008	---	-1.87	0.482	147.5	322.6	-3.0	0.423
4-3390	4-3910	0.356	7014	25.8	0.93	1.347	91.1	0.829	5.893	357.5	501.7	1.008	---	-1.94	0.457	145.8	322.4	-3.1	0.398
4-3390	4-3930	0.348	69.0	26.0	1.03	1.339	90.8	0.809	5.284	358.2	504.1	1.008	---	-2.02	0.435	144.0	322.1	-3.3	0.376
4-3390	4-3950	0.342	67.7	26.3	1.13	1.333	90.5	0.792	4.849	358.9	506.3	1.009	---	-2.11	0.414	142.2	321.8	-3.4	0.355
4-3390	4-3970	0.337	6616	26.7	1.25	1.327	90.3	0.777	4.527	359.4	508.4	1.009	---	-2.21	0.395	140.3	321.3	-3.6	0.336
4-3390	4-3990	0.333	65.6	27.1	1.37	1.323	90.1	0.764	4.279	359.8	510.4	1.009	---	-2.31	0.378	138.4	320.8	-3.8	0.318
4-3390	4-4010	0.329	6418	27.6	1.51	1.318	89.9	0.753	4.085	0.2	152.4	---	---	-2.43	0.363	136.4	320.2	-4.0	0.302
4-3390	4-4030	0.326	64.0	28.1	1.66	1.315	89.8	0.743	3.930	0.5	154.3	---	---	-2.57	0.348	134.3	319.5	-4.2	0.288
4-3390	4-4050	0.323	6315	28.8	1.83	1.312	89.7	0.735	3.804	0.7	156.1	---	---	-2.72	0.335	132.2	318.7	-4.5	0.275
4-3390	4-4070	0.321	63.0	29.6	2.02	1.309	89.7	0.727	3.700	0.8	157.8	---	---	-2.90	0.324	130.1	317.9	-4.8	0.263
4-3390	4-4090	0.319	62.6	30.4	2.24	1.306	89.6	0.721	3.615	0.9	159.4	---	---	-3.10	0.313	128.0	316.9	-5.1	0.252
4-3390	4-4110	0.317	62.4	31.5	2.49	1.304	89.6	0.715	3.544	0.9	161.0	---	---	-3.34	0.303	125.8	316.0	-5.5	0.242
4-3390	4-4130	0.317	6212	32.7	2.78	1.302	89.7	0.711	3.484	0.8	162.5	---	---	-3.61	0.294	123.5	314.9	-6.0	0.233
4-3390	4-4150	0.316	62.1	34.2	3.13	1.301	89.7	0.706	3.434	0.7	163.9	---	---	-3.94	0.287	121.3	313.8	-6.5	0.225
4-3390	4-4170	0.316	62.0	35.9	3.53	1.299	89.8	0.703	3.392	0.5	165.3	---	---	-4.33	0.280	119.1	312.6	-7.1	0.218
4-3390	4-4190	0.317	62.0	38.0	4.03	1.298	89.9	0.700	3.357	0.3	166.7	---	---	-4.81	0.273	116.8	311.4	-7.8	0.212
4-3390	4-4210	0.320	61.9	40.5	4.66	1.297	90.0	0.697	3.327	0.0	167.9	---	---	-5.42	0.268	114.6	310.2	-8.7	0.207
4-3390	4-4230	0.324	61.7	43.7	5.46	1.296	90.1	0.695	3.303	359.7	529.2	1.009	---	-6.21	0.263	112.3	308.9	-9.8	0.203
4-3390	4-4250	0.331	6142	47.8	6.53	1.295	90.3	0.693	3.282	359.4	530.4	1.009	---	-7.26	0.258	110.1	307.7	-11.3	0.199
4-3390	4-4270	0.343	60.3	53.2	8.03	1.295	90.4	0.691	3.265	359.0	531.5	1.009	---	-8.75	0.255	107.9	306.4	-13.2	0.198
4-3390	4-4290	0.365	5749	60.6	10.29	1.294	90.6	0.690	3.251	358.6	532.6	1.009	---	-11.00	0.251	105.7	305.2	-16.0	0.198
4-3390	4-4310	0.411	50.6	70.9	14.09	1.294	90.8	0.689	3.240	358.1	533.6	1.008	---	-14.77	0.249	103.6	303.9	-20.2	0.203
4-3390	4-4330	0.522	355.5	83.0	21.64	1.294	91.0	0.688	3.231	357.7	534.7	1.008	---	-22.31	0.246	101.5	302.5	-27.0	0.221
4-3390	4-4350	0.867	2669	64.8	42.05	1.293	91.1	0.687	3.224	357.3	535.7	1.008	---	-42.71	0.245	99.4	300.4	-36.3	0.295
4-3390	4-4370	1.419	196.0	-79.4	-75.56	1.293	91.9	0.687	3.220	355.4	536.6	1.007	---	74.92	0.243	97.5	296.7	30.2	0.428
4-3390	4-4390	0.699	89.0	-57.9	-32.31	1.293	91.9	0.687	3.217	355.3	537.5	1.007	---	31.69	0.242	95.5	298.3	27.6	0.251
4-3390	4-4410	0.484	8312	-38.3	-19.23	1.293	92.1	0.687	3.215	354.8	538.4	1.007	---	18.62	0.241	93.5	298.2	19.0	0.207
4-3390	4-4430	0.405	8149	-25.7	-13.66	1.293	92.4	0.687	3.215	354.2	539.2	1.007	---	13.06	0.240	91.6	297.6	13.6	0.194
4-3390	4-4450	0.369	8128	-17.0	-10.62	1.293	92.6	0.687	3.216	353.6	540.1	1.006	5.425	10.04	0.240	89.8	297.0	10.1	0.188
4-3390	4-4470	0.350	8242	-10.8	-8.72	1.293	92.9	0.688	3.218	352.9	540.9	1.005	5.430	8.15	0.240	88.1	296.4	7.8	0.186
4-3390	4-4490	0.339	8219	-6.2	-7.41	1.293	93.2	0.688	3.221	352.1	541.7	1.005	5.436	6.86	0.240	86.3	295.9	6.1	0.185
4-3390	4-4510	0.332	83.8	-2.7	-6.46	1.293	93.5	0.689	3.224	351.4	542.4	1.004	5.445	5.93	0.241	84.7	295.4	4.9	0.185
4-3390	4-4530	0.328	8448	0.2	-5.74	1.294	93.8	0.689	3.229	350.6	543.1	1.003	5.455	5.22	0.241	83.1	295.0	4.0	0.186
4-3390	4-4550	0.326	8640	2.5	-5.17	1.294	94.2	0.690	3.234	349.8	543.9	1.002	5.467	4.67	0.242	81.5	294.7	3.2	0.186
4-3390	4-4570	0.325	8712	4.4	-4.71	1.294	94.5	0.691	3.241	348.9	544.5	1.001	5.480	4.23	0.243	80.0	294.5	2.6	0.187
4-3390	4-4590	0.325	8845	6.0	-4.34	1.294	94.9	0.692	3.247	348.1	545.2	1.000	5.494	3.86	0.244	78.6	294.3	2.1	0.189
4-3390	4-4610	0.325	89.8	7.3	-4.02	1.294	95.2	0.693	3.254	347.2	545.9	0.998	5.510	3.56	0.245	77.1	294.2	1.7	0.190
4-3390	4-4630	0.326	91.2	8.5	-3.74	1.295	95.6	0.694	3.262	346.4	546.5	0.997	5.527	3.30	0.246	75.8	294.2	1.3	0.192
4-3390	4-4650	0.328	92.6	9.5	-3.51	1.295	96.0	0.696	3.270	345.6	547.1	0.995	5.545	3.08	0.247	74.5	294.2	1.0	0.194
4-3390	4-4670	0.329	9411	10.4	-3.30	1.295	96.3	0.697	3.279	344.5	547.7	0.994	5.564	2.89	0.249	73.2	294.4	0.7	0.196
4-3390	4-4690	0.332	95.6	11.2	-3.12	1.296	96.7	0.698	3.288	343.6	548.3	0.992	5.583	2.72	0.250	72.0	294.5	0.5	0.198
4-3390	4-4710	0.334	9741	11.8	-2.95	1.296	97.1	0.700	3.297	342.7	548.8	0.990	5.604	2.57	0.252	70.8	294.8	0.3	0.200
4-3390	4-4730	0.337	98.6	12.4	-2.81	1.296	97.5	0.701	3.306	341.7	549.4	0.988	5.625	2.44	0.254	69.6	295.1	0.1	0.202
4-3390	4-4750	0.340	100.1	12.9	-2.68	1.297	97.9	0.703	3.316	340.7	549.9	0.985	5.647	2.33	0.255	68.5	295.4	-0.1	0.204
4-3390	4-4770	0.344	101.6	13.4	-2.56	1.297	98.4	0.705	3.326	339.7	550.4	0.983	5.670	2.22	0.257	67.4	295.9	-0.2	0.206
4-3390	4-4790	0.347	103.1	13.8	-2.45	1.297	98.8	0.706	3.337	338.7	550.9	0.980	5.693	2.13	0.259	66.4	296.3	-0.3	0.209
4-3390	4-4810	0.351	10416	14.1	-2.35	1.298	99.2	0.708	3.347	337.7	551.4	0.977	5.717	2.05	0.261	65.4	296.8	-0.4	0.211
4-3390	4-4830	0.356	10611	14.4	-2.25	1.298	99.7	0.710	3.358	336.7	551.9	0.974	5.742	1.97	0.262	64.4	297.4	-0.5	0.214
4-3390	4-4850	0.360	10746	14.7	-2.17	1.299	100.1	0.712	3.369	335.6	552.4	0.971	5.767	1.90	0.264	63.4	298.0	-0.6	0.216
4-3390	4-4870	0.365	109.1	14.9	-2.08	1.299	100.6	0.714	3.380	334.6	552.8	0.968	5.793	1.83	0.266	62.5	298.6	-0.7	0.219
4-3390	4-4890	0.370	11046	15.1	-2.01	1.299	101.0	0.716	3.392	333.5	553.3	0.964	5.819	1.78	0.268	61.6	299.3	-0.8	0.221
4-3390	4-4910	0.375	11241	15.2	-1.94	1.300	101.5	0.718	3.403	332.4	553.7	0.961	5.846	1.72	0.270	60.7	300.0	-0.8	0.224
4-3390	4-4930	0.381	11346	15.3	-1.87	1.300	102.0	0.720	3.415	331.3	554.1	0.957	5.873	1.67	0.272	59.8	300.7	-0.9	0.226
4-3390	4-4950	0.387	11510	15.4	-1.81	1.300	102.4	0.722	3.427	330.2	554.5	0.953	5.900	1.63	0.274	59.0	301.5	-0.9	0.229
4-3390	4-4970	0.393	11645	15.6	-1.75	1.301	102.9	0.724	3.438	329.1	554.9	0.948	5.928	1.58	0.276	58.2	302.3	-1.0	0.231
4-3390	4-4990	0.399	117.9	15.8	-1.69	1.301	103.4	0.726	3.450	327.9	555.3	0.944	5.957	1.54	0.278	57.4	303.2	-1.0	0.234
4-3400	4-3680	0.619	90.8	23.8	0.15	1.608	94.6	1.597	-1.675	352.6	468.2	1.001	---	-1.36	0.991	161.8	321.6	-2.4	0.929
4-3400	4-3700	0.569	8841	24.0	0.19	1.560	93.5	1.448	-2.239	354.1	471.4	1.003	---	-1.38	0.911	160.7	322.0	-2.4	0.850
4-3400	4-3720	0.528	85.4	24.1	0.24	1.521	92.5	1.327	-3.073	355.6	474.6	1.004	---	-1.40	0.842	159.6	322.3	-2.4	0.782
4-3400	4-3740	0.494	8216	24.1	0.28	1.488	91.6	1.228	-4.414	357.1	477.7	1.005	---	-1.43	0.781	158.5	322.5	-2.4	0.721
4-3400	4-3760	0.467	7949	24.2	0.33	1.461	90.8	1.146	-6.892	358.5	480.8	1.006	---	-1.45	0.726	157.2	322.7	-2.5	0.667
4-3400	4-3780	0.444	7742	24.2	0.38	1.437	90.0	1.078	12.919	359.9	483.9	1.006	---	-1.48	0.678	156.0	322.9	-2.5	0.619
4-3400	4-3800	0.425	7446	24.1	0.43	1.417	89.4	1.021	48.136	1.3	126.9	---	---	-1.51	0.634	154.6	323.0	-2.6	0.576
4-3400	4-3820	0.409	7211	24.1	0.49	1.400	88.7	0.973	37.216	2.5	129.8	---	---	-1.54	0.595	153.2	323.1	-2.6	0.537
4-3400	4-3840	0.396	69.8	24.1	0.54	1.386	88.2	0.932	14.868	3.7	132.6	---	---	-1.58	0.560	151.7	323.1	-2.7	0.501
4-3400	4-3860	0.385	6747	24.0	0.60	1.373	87.7	0.898	9.841	4.8	135.3	---	---	-1.61	0.528	150.2	323.0	-2.7	0.470
4-3400	4-3880	0.376	6548	24.0	0.66	1.363	87.3	0.869	7.635	5.8	137.9	---	---	-1.65	0.498	148.6	322.9	-2.8	0.440
4-3400	4-3900	0.369	64.0	24.0	0.73	1.353	86.9	0.843	6.403	6.7	140.4	---	---	-1.70	0.472	146.9	322.7	-2.9	0.414
4-3400	4-3920	0.362	6214	24.0	0.80	1.345	86.6	0.822	5.623	7.5	142.8	---	---	-1.75	0.448	145.2	322.4	-3.0	0.390
4-3400	4-3940	0.357	61.1	24.1	0.87	1.338	86.3	0.803	5.088	8.2	145.1	---	---	-1.80	0.426	143.4	322.1	-3.1	0.368
4-3400	4-3960	0.352	5949	24.2	0.94	1.332	86.1	0.787	4.701	8.8	147.3	---	---	-1.85	0.406	141.5	321.6	-3.3	0.368
4-3400	4-3980	0.348	58.8	24.3	1.03	1.327	85.9	0.773	4.410	9.3	149.4	---	---	-1.91	0.388	139.6	321.1	-3.4	0.329
4-3400	4-4000	0.345	58.0	24.5	1.11	1.323	85.8	0.761	4.185	9.7	151.4	---	---	-1.98	0.371	137.7	320.5	-3.5	0.312

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3400	4-4020	0.342	57.2	24.8	1.20	1.319	85.7	0.751	4.008	10.1	153.4	---	---	-2.05	0.356	135.6	319.9	-3.7	0.297
4-3400	4-4040	0.339	56.7	25.1	1.30	1.315	85.6	0.742	3.866	10.3	155.2	---	---	-2.13	0.342	133.6	319.1	-3.9	0.283
4-3400	4-4060	0.337	56.2	25.4	1.41	1.312	85.6	0.734	3.750	10.5	157.0	---	---	-2.22	0.329	131.5	318.3	-4.1	0.270
4-3400	4-4080	0.334	55.9	25.9	1.52	1.309	85.5	0.727	3.655	10.6	158.7	---	---	-2.32	0.318	129.3	317.4	-4.3	0.258
4-3400	4-4100	0.332	55.6	26.4	1.65	1.307	85.5	0.721	3.576	10.7	160.3	---	---	-2.43	0.308	127.1	316.5	-4.5	0.248
4-3400	4-4120	0.330	55.5	26.9	1.79	1.305	85.6	0.715	3.510	10.6	161.8	---	---	-2.55	0.298	124.9	315.4	-4.8	0.238
4-3400	4-4140	0.329	55.5	27.6	1.94	1.303	85.6	0.711	3.456	10.5	163.3	---	---	-2.68	0.290	122.7	314.3	-5.0	0.230
4-3400	4-4160	0.327	55.6	28.3	2.11	1.302	85.7	0.707	3.410	10.4	164.7	---	---	-2.83	0.283	120.4	313.2	-5.3	0.222
4-3400	4-4180	0.326	55.7	29.1	2.30	1.301	85.8	0.703	3.371	10.2	166.0	---	---	-3.00	0.276	118.2	312.0	-5.7	0.215
4-3400	4-4200	0.325	55.9	30.1	2.51	1.299	85.9	0.700	3.339	9.9	167.3	---	---	-3.20	0.270	115.9	310.8	-6.0	0.209
4-3400	4-4220	0.324	56.1	31.2	2.75	1.298	86.1	0.698	3.311	9.6	168.6	---	---	-3.42	0.265	113.6	309.6	-6.4	0.204
4-3400	4-4240	0.323	56.5	32.4	3.03	1.298	86.2	0.696	3.289	9.2	169.8	---	---	-3.68	0.260	111.4	308.4	-6.9	0.199
4-3400	4-4260	0.323	56.8	33.9	3.35	1.297	86.4	0.694	3.270	8.8	170.9	---	---	-3.99	0.256	109.2	307.2	-7.4	0.196
4-3400	4-4280	0.323	57.2	35.5	3.74	1.296	86.6	0.692	3.255	8.4	172.0	---	---	-4.36	0.253	107.0	306.0	-8.0	0.192
4-3400	4-4300	0.324	57.5	37.5	4.19	1.296	86.8	0.691	3.243	7.9	173.1	---	---	-4.80	0.250	104.8	304.8	-8.6	0.190
4-3400	4-4320	0.325	57.8	39.9	4.75	1.296	87.0	0.690	3.233	7.4	174.1	---	---	-5.34	0.247	102.7	303.7	-9.4	0.188
4-3400	4-4340	0.328	58.0	42.7	5.46	1.295	87.2	0.689	3.226	6.9	175.1	---	---	-6.03	0.245	100.6	302.6	-10.4	0.187
4-3400	4-4360	0.334	58.0	46.3	6.36	1.295	87.4	0.688	3.220	6.3	176.1	---	---	-6.92	0.243	98.6	301.6	-11.6	0.186
4-3400	4-4380	0.342	57.5	50.8	7.58	1.295	87.7	0.688	3.217	5.7	177.0	---	---	-8.12	0.242	96.6	300.6	-13.1	0.187
4-3400	4-4400	0.358	56.1	56.7	9.31	1.295	87.9	0.688	3.214	5.1	177.9	---	---	-9.83	0.241	94.6	299.8	-15.2	0.189
4-3400	4-4420	0.386	52.1	64.5	11.93	1.295	88.2	0.687	3.214	4.5	178.7	---	---	-12.44	0.241	92.8	299.0	-18.3	0.193
4-3400	4-4440	0.445	37.6	74.8	16.40	1.295	88.4	0.687	3.214	3.8	179.6	---	---	-16.89	0.240	90.9	298.5	-22.8	0.203
4-3400	4-4460	0.586	31.3	79.9	25.50	1.295	88.7	0.687	3.216	3.2	180.4	---	5.427	-25.97	0.240	89.1	298.4	-29.9	0.230
4-3400	4-4480	1.014	27.2	56.7	50.47	1.295	88.9	0.688	3.219	2.8	181.2	---	5.432	-50.93	0.240	87.4	299.6	-37.4	0.327
4-3400	4-4500	1.292	157.4	-86.9	-67.24	1.295	89.8	0.688	3.223	0.6	181.9	---	5.439	66.81	0.240	85.8	298.8	31.4	0.393
4-3400	4-4520	0.684	84.3	-57.4	-31.38	1.295	89.9	0.688	3.227	0.3	182.7	---	5.448	30.95	0.241	84.2	296.5	27.0	0.249
4-3400	4-4540	0.487	82.3	-38.9	-19.41	1.296	90.2	0.689	3.233	359.6	543.4	1.006	5.459	19.00	0.242	82.6	295.6	18.9	0.211
4-3400	4-4560	0.409	82.2	-26.7	-13.98	1.296	90.5	0.689	3.239	358.8	544.1	1.006	5.471	13.59	0.243	81.1	295.1	13.6	0.199
4-3400	4-4580	0.371	82.7	-18.2	-10.93	1.296	90.8	0.690	3.245	358.0	544.8	1.006	5.485	10.56	0.244	79.6	294.8	10.2	0.195
4-3400	4-4600	0.351	83.5	-12.0	-8.98	1.296	91.1	0.691	3.252	357.2	545.4	1.006	5.499	8.63	0.245	78.2	294.7	7.9	0.193
4-3400	4-4620	0.339	84.6	-7.3	-7.64	1.297	91.5	0.692	3.260	356.3	546.1	1.005	5.515	7.30	0.246	76.8	294.6	6.3	0.193
4-3400	4-4640	0.331	85.8	-3.6	-6.65	1.297	91.9	0.693	3.268	355.5	546.7	1.005	5.532	6.32	0.247	75.5	294.6	5.0	0.194
4-3400	4-4660	0.326	87.2	-0.7	-5.89	1.297	92.2	0.694	3.277	354.6	547.3	1.004	5.549	5.58	0.249	74.3	294.7	4.1	0.195
4-3400	4-4680	0.323	88.6	1.7	-5.29	1.298	92.6	0.695	3.286	353.6	547.9	1.004	5.568	5.00	0.250	73.0	294.8	3.3	0.196
4-3400	4-4700	0.321	90.1	3.7	-4.81	1.298	93.0	0.696	3.295	352.7	548.4	1.003	5.587	4.53	0.252	71.9	295.0	2.7	0.198
4-3400	4-4720	0.320	91.7	5.3	-4.40	1.298	93.4	0.697	3.305	351.8	549.0	1.002	5.608	4.15	0.253	70.7	295.3	2.2	0.200
4-3400	4-4740	0.320	93.3	6.7	-4.06	1.299	93.8	0.698	3.315	350.8	549.6	1.001	5.629	3.82	0.255	69.6	295.6	1.8	0.202
4-3400	4-4760	0.321	94.9	7.9	-3.77	1.299	94.2	0.699	3.325	349.8	550.1	1.000	5.650	3.55	0.257	68.5	296.0	1.4	0.203
4-3400	4-4780	0.322	96.6	9.0	-3.52	1.299	94.6	0.701	3.335	348.8	550.6	0.998	5.673	3.31	0.259	67.5	296.4	1.1	0.205
4-3400	4-4800	0.323	98.3	9.9	-3.30	1.300	95.0	0.702	3.346	347.8	551.1	0.997	5.696	3.11	0.260	66.5	296.9	0.8	0.208
4-3400	4-4820	0.325	100.0	10.6	-3.10	1.300	95.4	0.704	3.357	346.8	551.6	0.995	5.719	2.93	0.262	65.5	297.4	0.6	0.210
4-3400	4-4840	0.327	101.7	11.3	-2.93	1.300	95.9	0.705	3.368	345.8	552.1	0.993	5.743	2.77	0.264	64.6	297.9	0.4	0.212
4-3400	4-4860	0.330	103.4	11.9	-2.77	1.301	96.3	0.707	3.380	344.8	552.5	0.991	5.768	2.63	0.266	63.7	298.5	0.2	0.214
4-3400	4-4880	0.333	105.1	12.4	-2.63	1.301	96.8	0.708	3.391	343.7	553.0	0.989	5.793	2.51	0.268	62.8	299.2	0.1	0.216
4-3400	4-4900	0.336	106.9	12.8	-2.50	1.302	97.2	0.710	3.403	342.6	553.4	0.987	5.818	2.40	0.270	61.9	299.9	-0.0	0.219
4-3400	4-4920	0.339	108.6	13.2	-2.38	1.302	97.7	0.712	3.414	341.6	553.9	0.985	5.844	2.30	0.272	61.1	300.6	-0.2	0.221
4-3400	4-4940	0.343	110.3	13.5	-2.28	1.302	98.1	0.713	3.426	340.5	554.3	0.982	5.870	2.21	0.274	60.3	301.3	-0.3	0.224
4-3400	4-4960	0.347	112.0	13.7	-2.18	1.303	98.6	0.715	3.438	339.4	554.7	0.979	5.897	2.12	0.276	59.5	302.1	-0.4	0.226
4-3400	4-4980	0.352	113.7	13.9	-2.08	1.303	99.1	0.717	3.450	338.2	555.1	0.976	5.924	2.05	0.278	58.7	302.9	-0.4	0.228
4-3400	4-5000	0.356	115.4	14.1	-1.99	1.304	99.5	0.719	3.462	337.1	555.5	0.973	5.952	1.98	0.280	58.0	303.8	-0.5	0.231
4-3410	4-3690	0.600	84.0	23.8	0.16	1.595	88.6	1.551	-1.820	2.4	109.1	---	---	-1.34	0.966	161.5	322.1	-2.3	0.904
4-3410	4-3710	0.557	80.9	23.7	0.20	1.549	87.6	1.407	-2.460	4.0	112.4	---	---	-1.35	0.889	160.4	322.4	-2.4	0.828
4-3410	4-3730	0.522	77.8	23.7	0.24	1.511	86.8	1.291	-3.436	5.7	115.7	---	---	-1.37	0.821	159.3	322.6	-2.4	0.761
4-3410	4-3750	0.494	74.8	23.6	0.28	1.480	86.0	1.197	-5.077	7.3	119.0	---	---	-1.38	0.761	158.1	322.8	-2.4	0.702
4-3410	4-3770	0.472	71.8	23.4	0.33	1.454	85.3	1.119	-8.375	8.8	122.2	---	---	-1.40	0.708	156.9	322.9	-2.4	0.650
4-3410	4-3790	0.454	69.1	23.2	0.37	1.431	84.7	1.055	18.199	10.3	125.3	---	---	-1.42	0.661	155.6	323.0	-2.5	0.603
4-3410	4-3810	0.439	66.5	23.0	0.42	1.412	84.1	1.001	30.506	11.7	128.4	---	---	-1.44	0.618	154.2	323.1	-2.5	0.561
4-3410	4-3830	0.427	64.1	22.8	0.46	1.396	83.6	0.956	22.599	13.0	131.3	---	---	-1.46	0.580	152.8	323.1	-2.6	0.523
4-3410	4-3850	0.417	62.0	22.7	0.51	1.382	83.2	0.918	12.097	14.3	134.1	---	---	-1.48	0.545	151.3	323.0	-2.6	0.489
4-3410	4-3870	0.409	60.0	22.5	0.56	1.370	82.8	0.886	8.670	15.4	136.9	---	---	-1.51	0.514	149.8	322.9	-2.7	0.458
4-3410	4-3890	0.403	58.3	22.3	0.61	1.360	82.4	0.859	6.981	16.4	139.5	---	---	-1.53	0.486	148.1	322.7	-2.8	0.430
4-3410	4-3910	0.397	56.8	22.2	0.66	1.351	82.1	0.836	5.983	17.3	142.0	---	---	-1.56	0.460	146.4	322.4	-2.9	0.404
4-3410	4-3930	0.392	55.5	22.2	0.72	1.344	81.9	0.816	5.327	18.0	144.4	---	---	-1.60	0.436	144.7	322.0	-2.9	0.381
4-3410	4-3950	0.388	54.4	22.1	0.77	1.337	81.7	0.799	4.868	18.7	146.7	---	---	-1.63	0.415	142.8	321.6	-3.0	0.360
4-3410	4-3970	0.385	53.4	22.1	0.83	1.331	81.5	0.784	4.530	19.3	148.8	---	---	-1.67	0.396	140.9	321.1	-3.1	0.340
4-3410	4-3990	0.381	52.6	22.2	0.89	1.326	81.4	0.771	4.273	19.8	150.9	---	---	-1.71	0.378	139.0	320.5	-3.3	0.322
4-3410	4-4010	0.379	51.9	22.3	0.96	1.322	81.3	0.760	4.074	20.1	152.9	---	---	-1.75	0.362	137.0	319.9	-3.4	0.306
4-3410	4-4030	0.376	51.4	22.4	1.03	1.318	81.3	0.751	3.915	20.4	154.7	---	---	-1.80	0.347	134.9	319.1	-3.5	0.291
4-3410	4-4050	0.373	51.0	22.6	1.10	1.315	81.2	0.742	3.787	20.6	156.5	---	---	-1.85	0.334	132.8	318.3	-3.7	0.278
4-3410	4-4070	0.371	50.7	22.8	1.17	1.312	81.2	0.735	3.682	20.8	158.2	---	---	-1.90	0.322	130.7	317.5	-3.8	0.265
4-3410	4-4090	0.369	50.5	23.0	1.25	1.310	81.2	0.729	3.596	20.8	159.9	---	---	-1.96	0.311	128.5	316.5	-4.0	0.254
4-3410	4-4110	0.366	50.4	23.4	1.34	1.308	81.3	0.723	3.525	20.8	161.4	---	---	-2.03	0.301	126.2	315.5	-4.2	0.244
4-3410	4-4130	0.364	50.4	23.7	1.43	1.306	81.4	0.718	3.466	20.7	162.9	---	---	-2.10	0.292	124.0	314.4	-4.4	0.235
4-3410	4-4150	0.362	50.4	24.1	1.53	1.304	81.5	0.714	3.416	20.5	164.3	---	---	-2.17	0.284	121.7	313.3	-4.5	0.227
4-3410	4-4170	0.360	50.6	24.6	1.63	1.303	81.6	0.710	3.375	20.3	165.7	---	---	-2.26	0.277	119.4	312.2	-4.8	0.220
4-3410	4-4190	0.358	50.8	25.1	1.74	1.302	81.7	0.707	3.340	20.1	167.0	---	---	-2.35	0.270	117.1	311.0	-5.0	0.213
4-3410	4-4210	0.355	51.1	25.6	1.86	1.301	81.8	0.704	3.311	19.8	168.2	---	---	-2.46	0.265	114.9	309.8	-5.2	0.208
4-3410	4-4230	0.353	51.5	26.3	2.00	1.300	82.0	0.702	3.287	19.4	169.4	---	---	-2.57	0.260	112.6	308.6	-5.4	0.203
4-3410	4-4250	0.351	51.9	27.0	2.14	1.299	82.2	0.700	3.267	19.0	170.6	---	---	-2.70	0.256	110.3	307.4	-5.7	0.198
4-3410	4-4270	0.349	52.3	27.7	2.30	1.298	82.4	0.698	3.251	18.6	171.7	---	---	-2.84	0.252	108.1	306.2	-6.0	0.195

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3410	4-4290	0.347	52.9	28.6	2.48	1.298	82.6	0.696	3.238	18.1	172.7	---	---	-3.00	0.249	105.9	305.0	-6.3	0.192
4-3410	4-4310	0.345	53.4	29.5	2.68	1.298	82.8	0.695	3.227	17.6	173.8	---	---	-3.18	0.246	103.7	303.9	-6.6	0.189
4-3410	4-4330	0.344	54.0	30.6	2.91	1.297	83.0	0.694	3.219	17.0	174.7	---	---	-3.39	0.244	101.6	302.8	-6.9	0.187
4-3410	4-4350	0.342	54.6	31.8	3.17	1.297	83.3	0.693	3.214	16.4	175.7	---	---	-3.63	0.242	99.5	301.8	-7.3	0.186
4-3410	4-4370	0.341	55.3	33.2	3.46	1.297	83.5	0.692	3.210	15.8	176.6	---	---	-3.91	0.241	97.5	300.8	-7.7	0.184
4-3410	4-4390	0.340	55.9	34.7	3.81	1.297	83.8	0.692	3.207	15.2	177.5	---	---	-4.23	0.240	95.5	299.9	-8.2	0.184
4-3410	4-4410	0.340	56.6	36.5	4.21	1.297	84.1	0.691	3.207	14.5	178.4	---	---	-4.62	0.239	93.6	299.1	-8.7	0.183
4-3410	4-4430	0.340	57.2	38.6	4.70	1.297	84.3	0.691	3.207	13.8	179.2	---	---	-5.09	0.239	91.8	298.3	-9.3	0.184
4-3410	4-4450	0.342	57.7	41.1	5.30	1.297	84.6	0.691	3.209	13.1	180.0	---	5.425	-5.67	0.239	90.0	297.7	-10.1	0.184
4-3410	4-4470	0.344	58.1	44.0	6.05	1.297	84.9	0.691	3.212	12.4	180.8	---	5.429	-6.41	0.239	88.2	297.1	-11.0	0.185
4-3410	4-4490	0.350	58.2	47.7	7.02	1.297	85.2	0.691	3.215	11.6	181.6	---	5.436	-7.36	0.239	86.5	296.6	-12.2	0.187
4-3410	4-4510	0.359	57.7	52.4	8.33	1.297	85.6	0.691	3.220	10.9	182.3	---	5.444	-8.65	0.240	84.9	296.2	-13.7	0.189
4-3410	4-4530	0.376	56.1	58.4	10.19	1.297	85.9	0.691	3.225	10.1	183.0	---	5.454	-10.49	0.240	83.3	296.0	-15.8	0.193
4-3410	4-4550	0.407	51.0	66.4	13.03	1.298	86.2	0.691	3.231	9.3	183.7	---	5.465	-13.32	0.241	81.8	296.0	-18.8	0.199
4-3410	4-4570	0.473	31.5	76.3	17.89	1.298	86.5	0.692	3.238	8.5	184.4	---	5.478	-18.17	0.242	80.3	296.3	-23.4	0.211
4-3410	4-4590	0.631	310.3	77.5	27.89	1.298	86.8	0.692	3.246	7.8	185.1	---	5.491	-28.14	0.243	78.9	297.7	-30.4	0.242
4-3410	4-4610	1.097	277.2	52.8	55.13	1.299	87.0	0.693	3.253	7.3	185.7	---	5.507	-55.36	0.245	77.5	302.1	-36.9	0.349
4-3410	4-4630	1.248	48.2	-85.8	-64.23	1.299	88.0	0.693	3.262	4.9	186.3	---	5.521	64.01	0.246	76.3	301.7	31.3	0.385
4-3410	4-4650	0.685	81.2	-56.6	-31.20	1.299	88.2	0.694	3.270	4.4	186.9	---	5.539	30.99	0.248	75.0	297.2	26.1	0.255
4-3410	4-4670	0.494	82.5	-38.8	-19.59	1.299	88.5	0.694	3.280	3.6	187.5	---	5.557	19.40	0.249	73.8	295.9	18.3	0.221
4-3410	4-4690	0.415	83.4	-26.8	-14.16	1.300	88.9	0.695	3.289	2.8	188.1	---	5.575	13.99	0.251	72.6	295.5	13.2	0.210
4-3410	4-4710	0.376	84.6	-18.3	-11.08	1.300	89.2	0.696	3.299	1.9	188.7	---	5.595	10.92	0.252	71.4	295.6	10.0	0.206
4-3410	4-4730	0.354	85.8	-12.1	-9.09	1.300	89.6	0.697	3.309	0.9	189.2	---	5.615	8.95	0.254	70.3	295.8	7.7	0.205
4-3410	4-4750	0.341	87.2	-7.4	-7.71	1.301	90.0	0.698	3.320	360.0	549.7	1.003	5.636	7.59	0.256	69.3	296.1	6.1	0.205
4-3410	4-4770	0.332	88.8	-3.7	-6.69	1.301	90.4	0.699	3.330	359.0	550.3	1.003	5.657	6.58	0.258	68.3	296.4	4.9	0.206
4-3410	4-4790	0.327	90.4	-0.7	-5.90	1.302	90.8	0.700	3.341	358.0	550.8	1.003	5.679	5.82	0.260	67.3	296.9	4.0	0.207
4-3410	4-4810	0.323	92.0	1.6	-5.28	1.302	91.2	0.701	3.352	357.0	551.3	1.003	5.702	5.21	0.261	66.3	297.3	3.3	0.209
4-3410	4-4830	0.320	93.8	3.6	-4.78	1.302	91.7	0.702	3.364	356.0	551.8	1.002	5.725	4.73	0.263	65.4	297.9	2.7	0.211
4-3410	4-4850	0.319	95.6	5.2	-4.36	1.303	92.1	0.703	3.375	355.0	552.3	1.002	5.749	4.33	0.265	64.5	298.4	2.2	0.212
4-3410	4-4870	0.318	97.4	6.6	-4.01	1.303	92.5	0.704	3.387	353.9	552.7	1.001	5.773	3.99	0.267	63.6	299.1	1.8	0.214
4-3410	4-4890	0.318	99.2	7.8	-3.70	1.304	93.0	0.706	3.399	352.9	553.2	1.000	5.797	3.70	0.269	62.8	299.7	1.4	0.216
4-3410	4-4910	0.319	101.1	8.8	-3.44	1.304	93.4	0.707	3.411	351.8	553.6	0.999	5.822	3.46	0.271	62.0	300.4	1.2	0.218
4-3410	4-4930	0.319	103.0	9.7	-3.21	1.304	93.8	0.708	3.423	350.7	554.1	0.998	5.847	3.25	0.273	61.2	301.1	0.9	0.220
4-3410	4-4950	0.321	104.9	10.4	-3.01	1.305	94.3	0.710	3.435	349.6	554.5	0.997	5.873	3.06	0.275	60.4	301.9	0.7	0.223
4-3410	4-4970	0.323	106.8	11.0	-2.83	1.305	94.8	0.711	3.447	348.5	554.9	0.995	5.899	2.90	0.277	59.7	302.7	0.5	0.225
4-3410	4-4990	0.325	108.7	11.5	-2.66	1.306	95.2	0.713	3.460	347.4	555.3	0.993	5.926	2.75	0.280	58.9	303.5	0.3	0.227
4-3410	4-5010	0.327	110.7	12.0	-2.51	1.306	95.7	0.714	3.472	346.3	555.7	0.991	5.953	2.62	0.282	58.2	304.4	0.2	0.229
4-3420	4-3700	0.612	76.5	23.3	0.17	1.580	82.2	1.491-2.008		13.0	110.8	---	---	-1.32	0.939	161.3	322.3	-2.3	0.879
4-3420	4-3720	0.575	73.2	23.1	0.21	1.537	81.5	1.356-2.757		14.8	114.2	---	---	-1.32	0.864	160.3	322.5	-2.3	0.805
4-3420	4-3740	0.546	70.1	22.9	0.25	1.501	80.8	1.248-3.944		16.6	117.7	---	---	-1.33	0.798	159.2	322.6	-2.4	0.740
4-3420	4-3760	0.524	67.1	22.6	0.29	1.471	80.2	1.160-6.080		18.3	121.0	---	---	-1.34	0.740	158.0	322.7	-2.4	0.683
4-3420	4-3780	0.506	64.4	22.3	0.33	1.446	79.6	1.08810.981		20.0	124.3	---	---	-1.35	0.688	156.7	322.8	-2.4	0.632
4-3420	4-3800	0.491	61.9	22.0	0.37	1.425	79.1	1.02933.217		21.5	127.5	---	---	-1.36	0.642	155.4	322.8	-2.5	0.587
4-3420	4-3820	0.480	59.7	21.7	0.41	1.407	78.6	0.98048.004		23.0	130.6	---	---	-1.37	0.600	154.0	322.8	-2.5	0.546
4-3420	4-3840	0.471	57.7	21.5	0.45	1.391	78.2	0.93915.691		24.3	133.5	---	---	-1.38	0.563	152.6	322.7	-2.6	0.510
4-3420	4-3860	0.463	55.9	21.2	0.49	1.378	77.9	0.905	9.997	25.5	136.4	---	---	-1.40	0.529	151.1	322.6	-2.6	0.477
4-3420	4-3880	0.457	54.3	21.0	0.53	1.367	77.6	0.876	7.641	26.6	139.1	---	---	-1.41	0.498	149.5	322.3	-2.7	0.447
4-3420	4-3900	0.452	53.0	20.8	0.58	1.357	77.4	0.851	6.361	27.6	141.7	---	---	-1.43	0.471	147.8	322.0	-2.7	0.419
4-3420	4-3920	0.447	51.8	20.7	0.62	1.349	77.1	0.830	5.564	28.4	144.1	---	---	-1.45	0.446	146.1	321.7	-2.8	0.395
4-3420	4-3940	0.443	50.8	20.6	0.67	1.342	77.0	0.812	5.023	29.1	146.5	---	---	-1.47	0.423	144.2	321.2	-2.9	0.372
4-3420	4-3960	0.440	50.0	20.6	0.71	1.335	76.8	0.797	4.635	29.7	148.7	---	---	-1.49	0.402	142.4	320.7	-3.0	0.352
4-3420	4-3980	0.437	49.3	20.5	0.76	1.330	76.8	0.784	4.346	30.2	150.8	---	---	-1.52	0.383	140.4	320.1	-3.1	0.333
4-3420	4-4000	0.434	48.7	20.6	0.81	1.325	76.7	0.772	4.123	30.7	152.8	---	---	-1.54	0.366	138.4	319.5	-3.2	0.316
4-3420	4-4020	0.431	48.3	20.6	0.86	1.321	76.7	0.762	3.949	31.0	154.7	---	---	-1.57	0.350	136.4	318.7	-3.3	0.300
4-3420	4-4040	0.428	48.0	20.7	0.92	1.318	76.7	0.754	3.809	31.2	156.5	---	---	-1.60	0.336	134.2	317.9	-3.4	0.286
4-3420	4-4060	0.425	47.7	20.8	0.97	1.315	76.7	0.746	3.696	31.3	158.2	---	---	-1.63	0.323	132.1	317.1	-3.5	0.273
4-3420	4-4080	0.423	47.6	21.0	1.03	1.312	76.7	0.740	3.604	31.4	159.8	---	---	-1.67	0.312	129.9	316.1	-3.7	0.262
4-3420	4-4100	0.420	47.5	21.2	1.09	1.310	76.8	0.734	3.527	31.3	161.4	---	---	-1.70	0.301	127.6	315.1	-3.8	0.251
4-3420	4-4120	0.417	47.5	21.4	1.15	1.308	76.9	0.729	3.464	31.2	162.8	---	---	-1.75	0.292	125.3	314.1	-3.9	0.242
4-3420	4-4140	0.414	47.6	21.6	1.22	1.306	77.0	0.724	3.412	31.1	164.3	---	---	-1.79	0.284	123.0	313.0	-4.1	0.233
4-3420	4-4160	0.411	47.8	21.9	1.29	1.305	77.1	0.721	3.368	30.9	165.6	---	---	-1.84	0.276	120.7	311.8	-4.2	0.226
4-3420	4-4180	0.409	48.0	22.2	1.36	1.303	77.3	0.717	3.331	30.6	166.9	---	---	-1.89	0.269	118.3	310.7	-4.4	0.219
4-3420	4-4200	0.406	48.2	22.6	1.44	1.302	77.4	0.714	3.301	30.3	168.1	---	---	-1.95	0.263	116.0	309.5	-4.5	0.213
4-3420	4-4220	0.403	48.6	23.0	1.52	1.301	77.6	0.711	3.276	29.9	169.3	---	---	-2.01	0.258	113.7	308.3	-4.7	0.208
4-3420	4-4240	0.400	49.0	23.4	1.60	1.301	77.8	0.709	3.255	29.5	170.4	---	---	-2.07	0.254	111.4	307.1	-4.9	0.203
4-3420	4-4260	0.397	49.4	23.9	1.70	1.300	78.0	0.707	3.238	29.0	171.5	---	---	-2.15	0.250	109.1	305.9	-5.0	0.199
4-3420	4-4280	0.394	49.9	24.4	1.79	1.300	78.2	0.705	3.224	28.5	172.6	---	---	-2.22	0.247	106.8	304.8	-5.2	0.196
4-3420	4-4300	0.391	50.4	24.9	1.90	1.299	78.5	0.704	3.214	28.0	173.6	---	---	-2.31	0.244	104.6	303.7	-5.4	0.193
4-3420	4-4320	0.388	51.0	25.5	2.02	1.299	78.7	0.702	3.206	27.4	174.6	---	---	-2.41	0.242	102.4	302.6	-5.6	0.190
4-3420	4-4340	0.384	51.6	26.1	2.14	1.299	79.0	0.701	3.200	26.8	175.5	---	---	-2.51	0.240	100.3	301.6	-5.8	0.189
4-3420	4-4360	0.381	52.2	26.8	2.27	1.299	79.2	0.700	3.196	26.2	176.4	---	---	-2.63	0.238	98.2	300.6	-6.0	0.187
4-3420	4-4380	0.378	52.9	27.5	2.42	1.298	79.5	0.699	3.193	25.6	177.3	---	---	-2.76	0.237	96.2	299.7	-6.2	0.186
4-3420	4-4400	0.375	53.6	28.3	2.59	1.298	79.8	0.699	3.193	24.9	178.2	---	---	-2.90	0.237	94.3	298.9	-6.4	0.185
4-3420	4-4420	0.373	54.4	29.2	2.77	1.298	80.1	0.698	3.193	24.2	179.0	---	---	-3.07	0.236	92.4	298.2	-6.6	0.185
4-3420	4-4440	0.370	55.2	30.2	2.97	1.299	80.4	0.697	3.195	23.4	179.8	---	---	-3.25	0.236	90.5	297.5	-6.9	0.185
4-3420	4-4460	0.367	56.0	31.3	3.20	1.299	80.7	0.697	3.198	22.7	180.5	---	5.427	-3.46	0.236	88.7	296.9	-7.2	0.185
4-3420	4-4480	0.365	56.8	32.5	3.46	1.299	81.0	0.697	3.202	21.9	181.3	---	5.433	-3.71	0.237	87.0	296.4	-7.5	0.186
4-3420	4-4500	0.363	57.6	33.9	3.77	1.299	81.3	0.697	3.207	21.1	182.0	---	5.441	-3.99	0.237	85.4	295.9	-7.8	0.186
4-3420	4-4520	0.361	58.5	35.4	4.12	1.299	81.7	0.697	3.212	20.3	182.7	---	5.450	-4.32	0.238	83.8	295.6	-8.2	0.187
4-3420	4-4540	0.360	59.3	37.2	4.53	1.299	82.0	0.696	3.219	19.5	183.4	---	5.460	-4.72	0.239	82.2	295.3	-8.7	0.188

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3430	4-4850	0.645	325.5	79.3	27.94	1.307	83.8	0.708	3.367	14.9	192.1	---	5.750	-27.75	0.264	64.2	302.9	-27.7	0.261
4-3430	4-4870	1.091	291.0	55.3	54.14	1.307	84.1	0.709	3.379	14.2	192.6	---	5.773	-53.94	0.266	63.4	310.7	-34.9	0.358
4-3430	4-4890	1.283	21.3	-76.6	-65.77	1.308	85.2	0.708	3.392	11.6	193.0	---	5.794	66.00	0.268	62.7	312.0	30.2	0.406
4-3430	4-4910	0.700	79.2	-54.1	-31.46	1.308	85.4	0.709	3.405	11.0	193.5	---	5.819	31.70	0.270	61.9	304.5	24.3	0.278
4-3430	4-4930	0.504	85.9	-36.3	-19.45	1.309	85.8	0.710	3.417	10.1	193.9	---	5.844	19.71	0.273	61.2	302.8	16.6	0.245
4-3430	4-4950	0.424	88.9	-24.3	-13.89	1.309	86.2	0.711	3.430	9.1	194.4	---	5.868	14.16	0.275	60.5	302.8	11.8	0.235
4-3430	4-4970	0.384	91.1	-15.9	-10.73	1.309	86.7	0.711	3.443	8.0	194.8	---	5.893	11.03	0.277	59.8	303.3	8.8	0.232
4-3430	4-4990	0.361	93.2	-9.8	-8.71	1.310	87.1	0.712	3.456	7.0	195.2	---	5.918	9.02	0.279	59.1	303.9	6.8	0.231
4-3430	4-5010	0.347	95.2	-5.3	-7.31	1.310	87.6	0.713	3.470	5.9	195.6	---	5.944	7.63	0.281	58.5	304.7	5.4	0.232
4-3430	4-5030	0.338	97.2	-1.8	-6.27	1.311	88.0	0.714	3.483	4.8	196.0	---	5.970	6.62	0.283	57.9	305.5	4.3	0.233
4-3440	4-3780	0.661	57.8	20.8	0.32	1.451	67.6	1.081	10.616	43.1	127.7	---	---	-1.24	0.690	158.3	321.6	-2.4	0.646
4-3440	4-3800	0.647	56.0	20.5	0.35	1.428	67.3	1.025	34.087	44.8	131.0	---	---	-1.23	0.641	157.0	321.5	-2.4	0.599
4-3440	4-3820	0.636	54.5	20.3	0.39	1.409	67.1	0.979	40.962	46.3	134.2	---	---	-1.23	0.597	155.7	321.3	-2.5	0.556
4-3440	4-3840	0.627	53.2	20.0	0.42	1.393	66.9	0.942	14.420	47.7	137.2	---	---	-1.23	0.558	154.2	321.1	-2.5	0.518
4-3440	4-3860	0.619	52.0	19.8	0.46	1.380	66.7	0.911	9.337	48.9	140.0	---	---	-1.23	0.522	152.7	320.8	-2.5	0.484
4-3440	4-3880	0.612	51.1	19.7	0.49	1.368	66.6	0.885	7.196	50.0	142.7	---	---	-1.23	0.490	151.1	320.4	-2.6	0.453
4-3440	4-3900	0.607	50.3	19.6	0.53	1.358	66.5	0.863	6.025	50.9	145.2	---	---	-1.23	0.461	149.4	320.0	-2.7	0.426
4-3440	4-3920	0.601	49.6	19.5	0.56	1.350	66.5	0.845	5.292	51.7	147.6	---	---	-1.24	0.435	147.6	319.5	-2.7	0.400
4-3440	4-3940	0.596	49.1	19.4	0.60	1.342	66.5	0.829	4.795	52.3	149.8	---	---	-1.24	0.412	145.8	318.9	-2.8	0.378
4-3440	4-3960	0.592	48.6	19.4	0.63	1.336	66.5	0.816	4.438	52.8	151.9	---	---	-1.25	0.390	143.9	318.3	-2.8	0.357
4-3440	4-3980	0.587	48.3	19.4	0.67	1.331	66.5	0.804	4.171	53.2	153.9	---	---	-1.25	0.370	141.8	317.6	-2.9	0.338
4-3440	4-4000	0.583	48.0	19.4	0.70	1.326	66.6	0.794	3.967	53.5	155.8	---	---	-1.26	0.353	139.8	316.8	-3.0	0.321
4-3440	4-4020	0.579	47.8	19.4	0.74	1.322	66.7	0.785	3.807	53.6	157.5	---	---	-1.27	0.337	137.6	316.0	-3.1	0.306
4-3440	4-4040	0.575	47.7	19.5	0.78	1.319	66.8	0.778	3.680	53.7	159.2	---	---	-1.28	0.322	135.4	315.1	-3.2	0.292
4-3440	4-4060	0.571	47.7	19.6	0.81	1.316	66.9	0.771	3.577	53.7	160.8	---	---	-1.29	0.309	133.1	314.1	-3.2	0.279
4-3440	4-4080	0.566	47.7	19.7	0.85	1.313	67.0	0.765	3.493	53.6	162.2	---	---	-1.30	0.297	130.7	313.1	-3.3	0.268
4-3440	4-4100	0.562	47.8	19.8	0.89	1.311	67.2	0.760	3.424	53.4	163.7	---	---	-1.31	0.287	128.3	312.1	-3.4	0.258
4-3440	4-4120	0.558	47.9	19.9	0.93	1.309	67.4	0.756	3.367	53.2	165.0	---	---	-1.33	0.277	125.9	311.0	-3.5	0.249
4-3440	4-4140	0.554	48.1	20.1	0.97	1.307	67.6	0.751	3.321	52.9	166.3	---	---	-1.34	0.269	123.4	309.9	-3.6	0.240
4-3440	4-4160	0.549	48.3	20.3	1.01	1.306	67.8	0.748	3.282	52.6	167.5	---	---	-1.36	0.262	120.9	308.7	-3.7	0.233
4-3440	4-4180	0.545	48.6	20.4	1.05	1.305	68.0	0.744	3.250	52.2	168.7	---	---	-1.37	0.255	118.4	307.6	-3.8	0.227
4-3440	4-4200	0.540	48.9	20.6	1.09	1.304	68.2	0.741	3.224	51.7	169.8	---	---	-1.39	0.249	115.9	306.4	-3.9	0.221
4-3440	4-4220	0.536	49.2	20.8	1.14	1.303	68.5	0.739	3.203	51.3	170.9	---	---	-1.42	0.245	113.4	305.3	-4.0	0.216
4-3440	4-4240	0.531	49.6	21.1	1.18	1.303	68.8	0.736	3.186	50.7	171.9	---	---	-1.44	0.240	111.0	304.2	-4.1	0.212
4-3440	4-4260	0.527	50.0	21.3	1.23	1.302	69.0	0.734	3.172	50.2	172.9	---	---	-1.46	0.237	108.5	303.1	-4.2	0.208
4-3440	4-4280	0.522	50.4	21.6	1.27	1.302	69.3	0.732	3.162	49.6	173.8	---	---	-1.49	0.234	106.1	302.1	-4.2	0.205
4-3440	4-4300	0.517	50.9	21.8	1.32	1.301	69.6	0.730	3.154	48.9	174.7	---	---	-1.52	0.232	103.8	301.1	-4.3	0.202
4-3440	4-4320	0.512	51.4	22.1	1.38	1.301	69.9	0.729	3.148	48.3	175.6	---	---	-1.55	0.230	101.5	300.1	-4.4	0.200
4-3440	4-4340	0.507	51.9	22.4	1.43	1.301	70.2	0.727	3.145	47.6	176.5	---	---	-1.58	0.228	99.2	299.2	-4.5	0.198
4-3440	4-4360	0.502	52.4	22.7	1.48	1.301	70.5	0.726	3.143	46.9	177.3	---	---	-1.62	0.227	97.1	298.4	-4.6	0.197
4-3440	4-4380	0.497	53.0	23.0	1.54	1.301	70.8	0.724	3.143	46.1	178.1	---	---	-1.65	0.227	95.0	297.7	-4.6	0.195
4-3440	4-4400	0.492	53.6	23.4	1.60	1.301	71.1	0.723	3.145	45.4	178.9	---	---	-1.70	0.226	92.9	297.0	-4.7	0.195
4-3440	4-4420	0.487	54.2	23.7	1.67	1.301	71.5	0.722	3.147	44.6	179.6	---	---	-1.74	0.226	91.0	296.4	-4.8	0.194
4-3440	4-4440	0.482	54.9	24.1	1.73	1.301	71.8	0.721	3.151	43.8	180.4	---	5.424	-1.79	0.227	89.1	295.8	-4.9	0.194
4-3440	4-4460	0.477	55.6	24.5	1.81	1.301	72.2	0.720	3.156	43.0	181.1	---	5.429	-1.84	0.227	87.2	295.3	-4.9	0.194
4-3440	4-4480	0.472	56.3	24.9	1.88	1.302	72.5	0.719	3.162	42.2	181.8	---	5.436	-1.90	0.228	85.5	295.0	-5.0	0.194
4-3440	4-4500	0.467	57.0	25.4	1.96	1.302	72.9	0.719	3.168	41.3	182.4	---	5.445	-1.96	0.229	83.8	294.6	-5.1	0.195
4-3440	4-4520	0.462	57.8	25.8	2.05	1.302	73.2	0.718	3.176	40.5	183.1	---	5.456	-2.03	0.230	82.2	294.4	-5.2	0.195
4-3440	4-4540	0.457	58.6	26.3	2.14	1.302	73.6	0.717	3.183	39.6	183.7	---	5.467	-2.10	0.232	80.7	294.2	-5.3	0.196
4-3440	4-4560	0.452	59.4	26.8	2.24	1.303	74.0	0.717	3.192	38.7	184.4	---	5.480	-2.18	0.233	79.2	294.1	-5.3	0.197
4-3440	4-4580	0.447	60.2	27.4	2.35	1.303	74.3	0.716	3.201	37.8	185.0	---	5.494	-2.27	0.235	77.8	294.1	-5.4	0.198
4-3440	4-4600	0.442	61.1	27.9	2.46	1.303	74.7	0.716	3.211	36.9	185.6	---	5.509	-2.37	0.236	76.4	294.1	-5.5	0.199
4-3440	4-4620	0.437	62.0	28.6	2.59	1.304	75.1	0.716	3.221	35.9	186.1	---	5.525	-2.48	0.238	75.1	294.2	-5.7	0.200
4-3440	4-4640	0.432	62.9	29.2	2.72	1.304	75.5	0.715	3.231	35.0	186.7	---	5.542	-2.60	0.240	73.9	294.3	-5.8	0.201
4-3440	4-4660	0.427	63.9	30.0	2.88	1.305	75.9	0.715	3.242	34.0	187.3	---	5.560	-2.73	0.242	72.7	294.5	-5.9	0.202
4-3440	4-4680	0.422	64.9	30.8	3.05	1.305	76.3	0.715	3.253	33.1	187.8	---	5.578	-2.89	0.244	71.6	294.8	-6.1	0.204
4-3440	4-4700	0.418	65.9	31.6	3.24	1.305	76.7	0.715	3.264	32.1	188.3	---	5.597	-3.06	0.246	70.5	295.1	-6.2	0.205
4-3440	4-4720	0.413	67.0	32.6	3.45	1.306	77.1	0.715	3.276	31.1	188.9	---	5.616	-3.25	0.248	69.4	295.4	-6.4	0.207
4-3440	4-4740	0.409	68.0	33.6	3.69	1.306	77.5	0.714	3.288	30.1	189.4	---	5.637	-3.48	0.250	68.5	295.8	-6.6	0.208
4-3440	4-4760	0.405	69.1	34.8	3.97	1.307	77.9	0.714	3.300	29.1	189.9	---	5.657	-3.74	0.252	67.5	296.3	-6.9	0.210
4-3440	4-4780	0.402	70.2	36.1	4.29	1.307	78.3	0.714	3.312	28.1	190.4	---	5.678	-4.05	0.254	66.6	296.8	-7.2	0.212
4-3440	4-4800	0.399	71.4	37.7	4.68	1.308	78.8	0.714	3.325	27.1	190.9	---	5.700	-4.41	0.257	65.7	297.3	-7.6	0.213
4-3440	4-4820	0.396	72.5	39.5	5.13	1.308	79.2	0.715	3.337	26.1	191.4	---	5.722	-4.86	0.259	64.8	297.9	-8.0	0.215
4-3440	4-4840	0.395	73.6	41.6	5.69	1.308	79.6	0.715	3.350	25.0	191.8	---	5.744	-5.40	0.261	64.0	298.6	-8.5	0.217
4-3440	4-4860	0.394	74.7	44.2	6.39	1.309	80.0	0.715	3.363	24.0	192.3	---	5.767	-6.08	0.263	63.2	299.3	-9.2	0.219
4-3440	4-4880	0.396	75.7	47.4	7.30	1.309	80.5	0.715	3.376	22.9	192.7	---	5.790	-6.97	0.266	62.5	300.0	-10.1	0.222
4-3440	4-4900	0.402	76.4	51.4	8.51	1.310	80.9	0.715	3.389	21.9	193.2	---	5.814	-8.17	0.268	61.7	300.9	-11.2	0.225
4-3440	4-4920	0.414	76.6	56.8	10.23	1.310	81.3	0.716	3.403	20.8	193.6	---	5.838	-9.87	0.270	61.0	301.8	-12.8	0.228
4-3440	4-4940	0.438	75.2	64.1	12.83	1.311	81.8	0.716	3.416	19.8	194.1	---	5.862	-12.45	0.272	60.3	303.0	-15.2	0.234
4-3440	4-4960	0.491	66.8	74.2	17.24	1.311	82.2	0.716	3.429	18.7	194.5	---	5.886	-16.85	0.275	59.7	304.6	-18.9	0.244
4-3440	4-4980	0.624	349.6	82.5	26.14	1.312	82.6	0.717	3.443	17.7	194.9	---	5.911	-25.74	0.277	59.0	307.5	-25.2	0.267
4-3440	4-5000	1.031	297.7	60.1	50.25	1.312	82.9	0.717	3.457	16.9	195.3	---	5.936	-49.82	0.279	58.4	315.5	-33.4	0.351
4-3440	4-5020	1.331	18.8	-71.9	-68.39	1.312	84.0	0.717	3.470	14.4	195.7	---	5.959	68.83	0.281	57.9	318.9	29.6	0.425
4-3440	4-5040	0.702	80.3	-52.1	-31.23	1.313	84.3	0.718	3.484	13.8	196.1	---	5.985	31.69	0.284	57.3	310.0	23.4	0.289
4-3450	4-3790	0.758	56.5	20.5	0.35	1.440	60.9	1.044	17.146	56.9	132.3	---	---	-1.17	0.663	159.0	320.4	-2.4	0.630
4-3450	4-3810	0.744	55.2	20.2	0.38	1.419	60.8	0.998	29.882	58.5	135.5	---	---	-1.17	0.615	157.6	320.2	-2.4	0.584
4-3450	4-3830	0.733	54.1	20.1	0.41	1.401	60.7	0.961	18.989	59.9	138.6	---	---	-1.16	0.573	156.2	319.9	-2.5	0.543
4-3450	4-3850	0.723	53.1	19.9	0.45	1.386	60.7	0.930	10.567	61.2	141.4	---	---	-1.15	0.534	154.8	319.6	-2.5	0.506
4-3450	4-3870	0.714	52.4	19.8	0.48	1.373	60.6	0.904	7.702	62.2	144.1	---	---	-1.15	0.500	153.2	319.2	-2.6	0.474
4-3450	4-3890	0.706	51.7	19.7	0.51	1.363	60.6	0.882	6.269	63.1	146.6	---	---	-1.14	0.469	151.5	318.7	-2.6	0.444

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3450	4-3910	0.699	51.2	19.6	0.55	1.353	60.7	0.864	5.416	63.8	149.0	---	---	-1.14	0.440	149.8	318.2	-2.7	0.417
4-3450	4-3930	0.693	50.8	19.6	0.58	1.345	60.7	0.849	4.856	64.4	151.2	---	---	-1.14	0.415	148.0	317.6	-2.7	0.393
4-3450	4-3950	0.687	50.4	19.6	0.61	1.339	60.8	0.836	4.462	64.9	153.2	---	---	-1.14	0.392	146.0	316.9	-2.8	0.372
4-3450	4-3970	0.681	50.2	19.6	0.64	1.333	60.9	0.825	4.174	65.2	155.1	---	---	-1.14	0.371	144.0	316.2	-2.8	0.352
4-3450	4-3990	0.676	50.0	19.6	0.67	1.328	61.1	0.815	3.956	65.4	156.9	---	---	-1.14	0.352	141.9	315.4	-2.9	0.334
4-3450	4-4010	0.670	49.9	19.6	0.70	1.324	61.2	0.806	3.786	65.5	158.6	---	---	-1.14	0.335	139.7	314.5	-3.0	0.318
4-3450	4-4030	0.665	49.9	19.7	0.74	1.320	61.4	0.799	3.652	65.5	160.2	---	---	-1.14	0.319	137.5	313.6	-3.0	0.304
4-3450	4-4050	0.660	49.9	19.8	0.77	1.317	61.5	0.792	3.545	65.4	161.7	---	---	-1.14	0.305	135.1	312.6	-3.1	0.290
4-3450	4-4070	0.655	50.0	19.8	0.80	1.314	61.7	0.787	3.458	65.3	163.1	---	---	-1.15	0.293	132.7	311.6	-3.2	0.279
4-3450	4-4090	0.649	50.1	19.9	0.83	1.312	62.0	0.781	3.388	65.0	164.5	---	---	-1.15	0.282	130.2	310.6	-3.3	0.268
4-3450	4-4110	0.644	50.3	20.0	0.86	1.310	62.2	0.777	3.330	64.7	165.8	---	---	-1.16	0.272	127.7	309.5	-3.3	0.259
4-3450	4-4130	0.639	50.5	20.2	0.90	1.308	62.4	0.773	3.282	64.4	167.0	---	---	-1.16	0.263	125.1	308.4	-3.4	0.250
4-3450	4-4150	0.634	50.7	20.3	0.93	1.307	62.7	0.769	3.243	64.0	168.2	---	---	-1.17	0.255	122.5	307.3	-3.5	0.243
4-3450	4-4170	0.628	51.0	20.5	0.96	1.306	62.9	0.765	3.211	63.5	169.3	---	---	-1.18	0.248	119.9	306.1	-3.6	0.236
4-3450	4-4190	0.623	51.3	20.6	1.00	1.305	63.2	0.762	3.185	63.0	170.3	---	---	-1.19	0.242	117.2	305.0	-3.6	0.230
4-3450	4-4210	0.618	51.6	20.8	1.03	1.304	63.5	0.759	3.164	62.5	171.3	---	---	-1.20	0.237	114.6	303.9	-3.7	0.225
4-3450	4-4230	0.612	51.9	21.0	1.07	1.303	63.8	0.757	3.147	61.9	172.3	---	---	-1.21	0.233	112.0	302.9	-3.8	0.220
4-3450	4-4250	0.607	52.3	21.1	1.10	1.303	64.1	0.754	3.134	61.3	173.3	---	---	-1.22	0.229	109.4	301.8	-3.8	0.216
4-3450	4-4270	0.601	52.7	21.3	1.14	1.302	64.4	0.752	3.124	60.7	174.2	---	---	-1.24	0.226	106.9	300.8	-3.9	0.213
4-3450	4-4290	0.596	53.2	21.5	1.17	1.302	64.7	0.750	3.117	60.0	175.0	---	---	-1.25	0.224	104.4	299.9	-4.0	0.210
4-3450	4-4310	0.590	53.6	21.7	1.21	1.302	65.1	0.748	3.112	59.3	175.9	---	---	-1.27	0.222	102.0	299.0	-4.0	0.208
4-3450	4-4330	0.585	54.1	22.0	1.25	1.302	65.4	0.746	3.109	58.6	176.7	---	---	-1.29	0.220	99.6	298.1	-4.1	0.206
4-3450	4-4350	0.579	54.6	22.2	1.29	1.302	65.7	0.744	3.108	57.8	177.5	---	---	-1.31	0.220	97.3	297.4	-4.1	0.204
4-3450	4-4370	0.573	55.1	22.4	1.33	1.302	66.1	0.743	3.109	57.0	178.2	---	---	-1.33	0.219	95.1	296.7	-4.2	0.203
4-3450	4-4390	0.567	55.7	22.7	1.37	1.302	66.4	0.741	3.111	56.2	179.0	---	---	-1.35	0.219	92.9	296.0	-4.2	0.202
4-3450	4-4410	0.562	56.2	22.9	1.42	1.302	66.8	0.740	3.114	55.4	179.7	---	---	-1.37	0.219	90.9	295.5	-4.3	0.202
4-3450	4-4430	0.556	56.8	23.2	1.46	1.302	67.1	0.739	3.118	54.6	180.4	---	5.422	-1.40	0.220	88.9	295.0	-4.3	0.201
4-3450	4-4450	0.550	57.4	23.5	1.51	1.302	67.5	0.737	3.124	53.7	181.1	---	5.428	-1.43	0.220	87.0	294.5	-4.4	0.201
4-3450	4-4470	0.544	58.1	23.7	1.56	1.302	67.9	0.736	3.130	52.9	181.7	---	5.435	-1.46	0.221	85.2	294.2	-4.4	0.201
4-3450	4-4490	0.538	58.7	24.0	1.61	1.303	68.3	0.735	3.137	52.0	182.4	---	5.444	-1.49	0.222	83.5	293.9	-4.4	0.201
4-3450	4-4510	0.532	59.4	24.3	1.66	1.303	68.6	0.734	3.145	51.1	183.0	---	5.455	-1.53	0.224	81.8	293.7	-4.5	0.202
4-3450	4-4530	0.526	60.1	24.7	1.72	1.303	69.0	0.733	3.154	50.2	183.6	---	5.467	-1.56	0.225	80.2	293.6	-4.5	0.202
4-3450	4-4550	0.520	60.8	25.0	1.78	1.304	69.4	0.732	3.163	49.3	184.2	---	5.480	-1.60	0.227	78.7	293.5	-4.6	0.203
4-3450	4-4570	0.514	61.6	25.3	1.84	1.304	69.8	0.732	3.173	48.4	184.8	---	5.494	-1.65	0.229	77.2	293.5	-4.6	0.204
4-3450	4-4590	0.508	62.3	25.7	1.90	1.305	70.2	0.731	3.183	47.4	185.4	---	5.509	-1.70	0.231	75.9	293.5	-4.7	0.205
4-3450	4-4610	0.502	63.1	26.1	1.97	1.305	70.6	0.730	3.193	46.5	185.9	---	5.525	-1.75	0.233	74.6	293.6	-4.7	0.206
4-3450	4-4630	0.496	63.9	26.5	2.05	1.305	71.0	0.729	3.204	45.5	186.5	---	5.542	-1.81	0.235	73.3	293.8	-4.8	0.207
4-3450	4-4650	0.490	64.8	26.9	2.12	1.306	71.4	0.729	3.216	44.5	187.0	---	5.560	-1.87	0.237	72.1	294.0	-4.8	0.208
4-3450	4-4670	0.484	65.6	27.3	2.21	1.306	71.8	0.728	3.227	43.5	187.6	---	5.578	-1.93	0.239	71.0	294.3	-4.9	0.209
4-3450	4-4690	0.479	66.5	27.7	2.30	1.307	72.2	0.728	3.239	42.6	188.1	---	5.597	-2.01	0.241	69.9	294.6	-5.0	0.210
4-3450	4-4710	0.473	67.4	28.2	2.40	1.307	72.6	0.727	3.252	41.6	188.6	---	5.616	-2.09	0.243	68.8	294.9	-5.0	0.212
4-3450	4-4730	0.467	68.4	28.7	2.50	1.308	73.1	0.727	3.264	40.6	189.1	---	5.636	-2.18	0.246	67.8	295.4	-5.1	0.213
4-3450	4-4750	0.461	69.3	29.3	2.62	1.308	73.5	0.726	3.277	39.5	189.6	---	5.657	-2.28	0.248	66.9	295.8	-5.2	0.214
4-3450	4-4770	0.456	70.3	29.9	2.74	1.308	73.9	0.726	3.290	38.5	190.1	---	5.678	-2.39	0.250	66.0	296.3	-5.3	0.216
4-3450	4-4790	0.450	71.4	30.5	2.88	1.309	74.3	0.726	3.303	37.5	190.6	---	5.699	-2.51	0.253	65.1	296.9	-5.4	0.217
4-3450	4-4810	0.444	72.4	31.2	3.04	1.309	74.8	0.725	3.316	36.4	191.0	---	5.721	-2.65	0.255	64.3	297.4	-5.5	0.218
4-3450	4-4830	0.439	73.5	31.9	3.21	1.310	75.2	0.725	3.329	35.4	191.5	---	5.743	-2.80	0.257	63.5	298.0	-5.6	0.220
4-3450	4-4850	0.434	74.6	32.7	3.40	1.310	75.6	0.725	3.343	34.3	192.0	---	5.766	-2.98	0.260	62.7	298.7	-5.8	0.222
4-3450	4-4870	0.429	75.8	33.7	3.62	1.311	76.1	0.725	3.356	33.3	192.4	---	5.789	-3.19	0.262	62.0	299.4	-6.0	0.223
4-3450	4-4890	0.424	77.0	34.7	3.88	1.311	76.5	0.725	3.370	32.2	192.8	---	5.812	-3.43	0.265	61.2	300.1	-6.2	0.225
4-3450	4-4910	0.420	78.2	35.8	4.17	1.312	77.0	0.725	3.384	31.1	193.3	---	5.835	-3.70	0.267	60.6	300.9	-6.4	0.226
4-3450	4-4930	0.416	79.5	37.2	4.52	1.312	77.4	0.724	3.398	30.1	193.7	---	5.859	-4.04	0.269	59.9	301.6	-6.7	0.228
4-3450	4-4950	0.412	80.8	38.7	4.93	1.313	77.9	0.724	3.412	29.0	194.1	---	5.883	-4.44	0.272	59.3	302.5	-7.1	0.230
4-3450	4-4970	0.409	82.1	40.6	5.44	1.313	78.3	0.725	3.426	27.9	194.5	---	5.907	-4.93	0.274	58.7	303.3	-7.5	0.232
4-3450	4-4990	0.408	83.4	42.8	6.07	1.313	78.8	0.725	3.440	26.8	195.0	---	5.932	-5.55	0.277	58.1	304.2	-8.1	0.234
4-3450	4-5010	0.408	84.7	45.7	6.89	1.314	79.2	0.725	3.454	25.7	195.4	---	5.956	-6.35	0.279	57.5	305.2	-8.8	0.236
4-3450	4-5030	0.411	86.0	49.3	7.98	1.314	79.7	0.725	3.468	24.6	195.8	---	5.981	-7.43	0.281	56.9	306.2	-9.8	0.238
4-3450	4-5050	0.420	87.0	54.1	9.52	1.315	80.2	0.725	3.482	23.5	196.2	---	6.006	-8.95	0.284	56.4	307.3	-11.2	0.241
4-3460	4-3800	0.867	56.9	20.5	0.39	1.430	53.9	1.01542	5.688	71.5	137.7	---	---	-1.10	0.636	159.9	318.9	-2.4	0.616
4-3460	4-3820	0.852	56.0	20.4	0.42	1.410	54.0	0.97829	5.947	72.9	140.7	---	---	-1.09	0.590	158.6	318.5	-2.4	0.572
4-3460	4-3840	0.839	55.3	20.2	0.45	1.393	54.1	0.94912	6.430	74.1	143.5	---	---	-1.08	0.548	157.2	318.2	-2.5	0.532
4-3460	4-3860	0.827	54.6	20.2	0.49	1.379	54.2	0.924	8.358	75.1	146.2	---	---	-1.06	0.510	155.7	317.7	-2.5	0.497
4-3460	4-3880	0.817	54.1	20.1	0.52	1.367	54.3	0.903	6.559	75.9	148.6	---	---	-1.05	0.476	154.1	317.2	-2.6	0.466
4-3460	4-3900	0.808	53.7	20.0	0.55	1.357	54.4	0.886	5.554	76.6	150.9	---	---	-1.05	0.446	152.3	316.6	-2.6	0.437
4-3460	4-3920	0.799	53.4	20.0	0.58	1.348	54.6	0.871	4.918	77.1	153.0	---	---	-1.04	0.418	150.5	316.0	-2.7	0.412
4-3460	4-3940	0.791	53.2	20.0	0.61	1.341	54.8	0.859	4.483	77.4	154.9	---	---	-1.03	0.393	148.6	315.3	-2.7	0.389
4-3460	4-3960	0.784	53.1	20.0	0.64	1.335	55.0	0.848	4.170	77.6	156.7	---	---	-1.03	0.371	146.6	314.5	-2.8	0.368
4-3460	4-3980	0.777	53.0	20.1	0.67	1.329	55.2	0.839	3.936	77.7	158.4	---	---	-1.02	0.351	144.5	313.7	-2.8	0.349
4-3460	4-4000	0.770	53.0	20.1	0.69	1.325	55.4	0.831	3.757	77.7	160.0	---	---	-1.02	0.332	142.3	312.8	-2.9	0.333
4-3460	4-4020	0.763	53.0	20.2	0.72	1.321	55.6	0.824	3.617	77.7	161.5	---	---	-1.01	0.316	140.0	311.9	-2.9	0.317
4-3460	4-4040	0.757	53.1	20.2	0.75	1.317	55.9	0.817	3.505	77.5	163.0	---	---	-1.01	0.301	137.6	310.9	-3.0	0.304
4-3460	4-4060	0.750	53.2	20.3	0.78	1.315	56.1	0.811	3.416	77.2	164.3	---	---	-1.01	0.287	135.1	309.9	-3.1	0.291
4-3460	4-4080	0.744	53.4	20.4	0.81	1.312	56.4	0.806	3.344	76.9	165.6	---	---	-1.01	0.275	132.5	308.8	-3.1	0.280
4-3460	4-4100	0.738	53.6	20.5	0.83	1.310	56.7	0.802	3.285	76.5	166.8	---	---	-1.01	0.264	129.9	307.7	-3.2	0.271
4-3460	4-4120	0.731	53.8	20.6	0.86	1.308	57.0	0.797	3.237	76.1	167.9	---	---	-1.01	0.255	127.2	306.7	-3.2	0.262
4-3460	4-4140	0.725	54.0	20.7	0.89	1.307	57.3	0.793	3.197	75.6	169.0	---	---	-1.01	0.246	124.4	305.6	-3.3	0.254
4-3460	4-4160	0.719	54.3	20.9	0.92	1.306	57.6	0.790	3.165	75.1	170.0	---	---	-1.01	0.239	121.7	304.5	-3.4	0.247
4-3460	4-4180	0.713	54.6	21.0	0.95	1.305	57.9	0.787	3.140	74.5	171.0	---	---	-1.01	0.233	118.9	303.4	-3.4	0.241
4-3460	4-4200	0.706	55.0	21.1	0.97	1.304	58.3	0.783	3.119	73.9	172.0	---	---	-1.02	0.227	116.1	302.3	-3.5	0.236
4-3460	4-4220	0.700	55.3	21.3	1.00	1.303	58.6	0.781	3.102	73.3	172.9	---	---	-1.02	0.223	113.3	301.3	-3.5	0.231

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3460	4-4240	0.694	55.7	21.4	1.03	1.303	58.9	0.778	3.090	72.6	173.7	---	---	-1.03	0.219	110.5	300.3	-3.6	0.227
4-3460	4-4260	0.687	56.1	21.6	1.06	1.302	59.3	0.775	3.080	71.9	174.6	---	---	-1.03	0.216	107.8	299.4	-3.6	0.223
4-3460	4-4280	0.681	56.5	21.7	1.09	1.302	59.6	0.773	3.074	71.2	175.4	---	---	-1.04	0.214	105.1	298.5	-3.7	0.220
4-3460	4-4300	0.675	57.0	21.9	1.12	1.302	60.0	0.771	3.069	70.4	176.2	---	---	-1.05	0.212	102.5	297.7	-3.7	0.218
4-3460	4-4320	0.668	57.4	22.1	1.15	1.302	60.4	0.769	3.067	69.6	177.0	---	---	-1.05	0.211	100.0	296.9	-3.7	0.216
4-3460	4-4340	0.662	57.9	22.2	1.18	1.302	60.7	0.767	3.067	68.8	177.7	---	---	-1.06	0.210	97.5	296.2	-3.8	0.214
4-3460	4-4360	0.655	58.4	22.4	1.21	1.302	61.1	0.765	3.068	68.0	178.4	---	---	-1.07	0.209	95.1	295.5	-3.8	0.213
4-3460	4-4380	0.649	58.9	22.6	1.24	1.302	61.5	0.763	3.071	67.2	179.1	---	---	-1.09	0.210	92.8	295.0	-3.9	0.212
4-3460	4-4400	0.642	59.4	22.8	1.27	1.302	61.9	0.761	3.075	66.3	179.8	---	---	-1.10	0.210	90.7	294.4	-3.9	0.211
4-3460	4-4420	0.636	60.0	23.0	1.30	1.302	62.3	0.760	3.080	65.5	180.5	---	5.421	-1.11	0.211	88.6	294.0	-3.9	0.210
4-3460	4-4440	0.629	60.5	23.2	1.33	1.303	62.7	0.758	3.086	64.6	181.1	---	5.427	-1.13	0.212	86.6	293.6	-3.9	0.210
4-3460	4-4460	0.623	61.1	23.4	1.37	1.303	63.1	0.757	3.093	63.7	181.7	---	5.434	-1.14	0.213	84.6	293.3	-4.0	0.210
4-3460	4-4480	0.616	61.7	23.6	1.40	1.303	63.5	0.755	3.101	62.8	182.3	---	5.444	-1.16	0.214	82.8	293.1	-4.0	0.210
4-3460	4-4500	0.609	62.3	23.8	1.44	1.304	63.9	0.754	3.110	61.8	182.9	---	5.455	-1.18	0.216	81.1	292.9	-4.0	0.210
4-3460	4-4520	0.603	63.0	24.0	1.48	1.304	64.3	0.753	3.119	60.9	183.5	---	5.467	-1.20	0.218	79.5	292.8	-4.0	0.211
4-3460	4-4540	0.596	63.6	24.3	1.51	1.304	64.7	0.751	3.129	60.0	184.1	---	5.480	-1.22	0.219	77.9	292.8	-4.1	0.211
4-3460	4-4560	0.589	64.3	24.5	1.55	1.305	65.1	0.750	3.139	59.0	184.7	---	5.495	-1.24	0.222	76.4	292.8	-4.1	0.212
4-3460	4-4580	0.583	64.9	24.7	1.59	1.305	65.5	0.749	3.150	58.0	185.2	---	5.510	-1.26	0.224	75.0	292.9	-4.1	0.213
4-3460	4-4600	0.576	65.6	25.0	1.64	1.306	65.9	0.748	3.161	57.1	185.8	---	5.526	-1.29	0.226	73.6	293.0	-4.1	0.213
4-3460	4-4620	0.569	66.3	25.2	1.68	1.306	66.4	0.747	3.173	56.1	186.3	---	5.543	-1.32	0.228	72.4	293.2	-4.2	0.214
4-3460	4-4640	0.562	67.1	25.5	1.73	1.307	66.8	0.746	3.185	55.1	186.8	---	5.561	-1.35	0.230	71.2	293.5	-4.2	0.215
4-3460	4-4660	0.556	67.8	25.8	1.78	1.307	67.2	0.745	3.197	54.1	187.3	---	5.580	-1.38	0.233	70.0	293.7	-4.2	0.216
4-3460	4-4680	0.549	68.6	26.1	1.83	1.307	67.6	0.744	3.210	53.1	187.8	---	5.599	-1.42	0.235	68.9	294.1	-4.2	0.217
4-3460	4-4700	0.542	69.4	26.4	1.88	1.308	68.1	0.743	3.223	52.1	188.3	---	5.618	-1.46	0.238	67.9	294.5	-4.3	0.218
4-3460	4-4720	0.536	70.2	26.7	1.94	1.308	68.5	0.743	3.236	51.0	188.8	---	5.639	-1.50	0.240	66.9	294.9	-4.3	0.219
4-3460	4-4740	0.529	71.1	27.0	2.00	1.309	69.0	0.742	3.249	50.0	189.3	---	5.659	-1.54	0.243	65.9	295.4	-4.3	0.221
4-3460	4-4760	0.522	71.9	27.3	2.07	1.309	69.4	0.741	3.263	49.0	189.8	---	5.680	-1.59	0.245	65.0	295.9	-4.4	0.222
4-3460	4-4780	0.516	72.8	27.6	2.13	1.310	69.8	0.740	3.276	47.9	190.2	---	5.702	-1.65	0.248	64.2	296.4	-4.4	0.223
4-3460	4-4800	0.509	73.7	28.0	2.21	1.310	70.3	0.740	3.290	46.9	190.7	---	5.723	-1.70	0.250	63.3	297.0	-4.4	0.224
4-3460	4-4820	0.503	74.7	28.4	2.29	1.311	70.7	0.739	3.304	45.8	191.1	---	5.746	-1.77	0.253	62.6	297.6	-4.5	0.226
4-3460	4-4840	0.496	75.6	28.8	2.37	1.311	71.2	0.738	3.318	44.8	191.6	---	5.768	-1.84	0.256	61.8	298.3	-4.5	0.227
4-3460	4-4860	0.490	76.6	29.2	2.46	1.312	71.6	0.738	3.332	43.7	192.0	---	5.791	-1.92	0.258	61.1	298.9	-4.6	0.228
4-3460	4-4880	0.483	77.6	29.6	2.56	1.312	72.1	0.737	3.346	42.6	192.5	---	5.814	-2.00	0.261	60.4	299.7	-4.6	0.230
4-3460	4-4900	0.477	78.7	30.1	2.67	1.313	72.5	0.737	3.361	41.5	192.9	---	5.837	-2.10	0.263	59.7	300.4	-4.7	0.231
4-3460	4-4920	0.471	79.8	30.6	2.80	1.313	73.0	0.736	3.375	40.4	193.3	---	5.861	-2.21	0.266	59.1	301.2	-4.8	0.232
4-3460	4-4940	0.464	80.9	31.2	2.93	1.314	73.4	0.736	3.390	39.3	193.7	---	5.885	-2.33	0.268	58.5	302.0	-4.9	0.234
4-3460	4-4960	0.458	82.0	31.8	3.08	1.314	73.9	0.736	3.404	38.3	194.1	---	5.909	-2.46	0.271	57.9	302.8	-5.0	0.235
4-3460	4-4980	0.452	83.2	32.4	3.25	1.315	74.4	0.735	3.419	37.1	194.5	---	5.933	-2.62	0.273	57.3	303.6	-5.1	0.237
4-3460	4-5000	0.447	84.4	33.2	3.44	1.315	74.8	0.735	3.433	36.0	194.9	---	5.957	-2.80	0.276	56.8	304.5	-5.2	0.238
4-3460	4-5020	0.441	85.7	34.0	3.66	1.316	75.3	0.735	3.448	34.9	195.3	---	5.982	-3.01	0.278	56.3	305.4	-5.4	0.239
4-3460	4-5040	0.436	87.0	35.0	3.92	1.316	75.8	0.735	3.463	33.8	195.7	---	6.006	-3.25	0.281	55.8	306.3	-5.6	0.241
4-3460	4-5060	0.431	88.4	36.1	4.22	1.317	76.2	0.734	3.477	32.7	196.1	---	6.031	-3.54	0.283	55.3	307.3	-5.8	0.243
4-3470	4-3810	0.984	58.7	20.8	0.44	1.420	46.8	0.99505	2.949	86.7	143.6	---	---	-1.01	0.610	161.4	317.0	-2.4	0.606
4-3470	4-3830	0.967	58.1	20.7	0.48	1.401	47.0	0.96715	2.909	87.8	146.3	---	---	-0.99	0.564	160.0	316.5	-2.4	0.563
4-3470	4-3850	0.951	57.7	20.7	0.51	1.385	47.3	0.944	9.348	88.7	148.8	---	---	-0.97	0.523	158.6	316.0	-2.5	0.525
4-3470	4-3870	0.938	57.3	20.6	0.54	1.372	47.5	0.926	6.962	89.4	151.1	---	---	-0.96	0.486	157.0	315.5	-2.5	0.491
4-3470	4-3890	0.926	57.0	20.6	0.57	1.361	47.8	0.910	5.739	89.9	153.3	---	---	-0.95	0.453	155.4	314.9	-2.6	0.461
4-3470	4-3910	0.915	56.8	20.6	0.60	1.351	48.0	0.896	5.001	90.2	155.2	---	---	-0.93	0.423	153.6	314.2	-2.6	0.434
4-3470	4-3930	0.904	56.7	20.6	0.63	1.343	48.3	0.885	4.513	90.4	157.0	---	---	-0.92	0.396	151.7	313.4	-2.6	0.409
4-3470	4-3950	0.895	56.6	20.7	0.66	1.336	48.6	0.875	4.170	90.5	158.7	---	---	-0.91	0.371	149.8	312.6	-2.7	0.387
4-3470	4-3970	0.886	56.7	20.7	0.68	1.330	48.9	0.866	3.917	90.5	160.3	---	---	-0.90	0.349	147.7	311.8	-2.7	0.368
4-3470	4-3990	0.877	56.7	20.8	0.71	1.325	49.2	0.858	3.726	90.3	161.7	---	---	-0.89	0.329	145.4	310.9	-2.8	0.350
4-3470	4-4010	0.869	56.8	20.8	0.74	1.321	49.5	0.851	3.579	90.1	163.1	---	---	-0.88	0.311	143.1	310.0	-2.8	0.334
4-3470	4-4030	0.861	56.9	20.9	0.76	1.318	49.9	0.845	3.462	89.8	164.4	---	---	-0.88	0.295	140.7	309.0	-2.9	0.320
4-3470	4-4050	0.853	57.1	21.0	0.79	1.315	50.2	0.839	3.370	89.5	165.6	---	---	-0.87	0.280	138.1	308.0	-3.0	0.307
4-3470	4-4070	0.845	57.3	21.0	0.81	1.312	50.6	0.834	3.295	89.0	166.8	---	---	-0.87	0.267	135.4	306.9	-3.0	0.295
4-3470	4-4090	0.837	57.6	21.1	0.84	1.310	50.9	0.830	3.235	88.5	167.9	---	---	-0.86	0.256	132.7	305.9	-3.1	0.285
4-3470	4-4110	0.830	57.8	21.2	0.86	1.308	51.3	0.825	3.186	88.0	168.9	---	---	-0.86	0.245	129.8	304.8	-3.1	0.276
4-3470	4-4130	0.823	58.1	21.3	0.88	1.307	51.6	0.821	3.147	87.4	169.9	---	---	-0.85	0.236	126.9	303.7	-3.2	0.268
4-3470	4-4150	0.815	58.4	21.4	0.91	1.305	52.0	0.818	3.115	86.8	170.9	---	---	-0.85	0.229	123.9	302.7	-3.2	0.261
4-3470	4-4170	0.808	58.8	21.6	0.93	1.304	52.4	0.814	3.089	86.2	171.8	---	---	-0.85	0.222	120.9	301.7	-3.2	0.254
4-3470	4-4190	0.801	59.1	21.7	0.95	1.304	52.8	0.811	3.069	85.5	172.7	---	---	-0.85	0.216	117.9	300.7	-3.3	0.249
4-3470	4-4210	0.793	59.5	21.8	0.98	1.303	53.2	0.808	3.053	84.8	173.5	---	---	-0.85	0.211	114.9	299.7	-3.3	0.244
4-3470	4-4230	0.786	59.9	21.9	1.00	1.302	53.5	0.805	3.041	84.0	174.3	---	---	-0.85	0.207	111.9	298.8	-3.4	0.240
4-3470	4-4250	0.779	60.3	22.0	1.02	1.302	53.9	0.802	3.032	83.2	175.1	---	---	-0.85	0.204	108.9	297.9	-3.4	0.236
4-3470	4-4270	0.772	60.7	22.2	1.04	1.302	54.3	0.800	3.026	82.5	175.8	---	---	-0.85	0.202	106.0	297.0	-3.4	0.233
4-3470	4-4290	0.764	61.1	22.3	1.07	1.302	54.8	0.797	3.022	81.6	176.6	---	---	-0.85	0.200	103.1	296.3	-3.5	0.230
4-3470	4-4310	0.757	61.6	22.4	1.09	1.302	55.2	0.795	3.021	80.8	177.3	---	---	-0.85	0.199	100.4	295.6	-3.5	0.228
4-3470	4-4330	0.750	62.0	22.6	1.11	1.302	55.6	0.792	3.021	79.9	178.0	---	---	-0.85	0.198	97.7	294.9	-3.5	0.226
4-3470	4-4350	0.743	62.5	22.7	1.14	1.302	56.0	0.790	3.023	79.1	178.6	---	---	-0.86	0.198	95.1	294.3	-3.5	0.224
4-3470	4-4370	0.736	63.0	22.9	1.16	1.302	56.4	0.788	3.027	78.2	179.3	---	---	-0.86	0.198	92.7	293.8	-3.6	0.223
4-3470	4-4390	0.728	63.5	23.0	1.18	1.302	56.8	0.786	3.031	77.3	179.9	---	---	-0.87	0.199	90.3	293.4	-3.6	0.222
4-3470	4-4410	0.721	64.0	23.2	1.21	1.302	57.2	0.784	3.037	76.4	180.5	---	5.419	-0.87	0.200	88.1	293.0	-3.6	0.222
4-3470	4-4430	0.714	64.6	23.3	1.23	1.303	57.7	0.782	3.044	75.5	181.1	---	5.426	-0.88	0.201	85.9	292.7	-3.6	0.221
4-3470	4-4450	0.706	65.1	23.5	1.26	1.303	58.1	0.780	3.052	74.5	181.7	---	5.434	-0.89	0.203	83.9	292.4	-3.6	0.221
4-3470	4-4470	0.699	65.7	23.6	1.28	1.303	58.5	0.779	3.061	73.6	182.3	---	5.444	-0.89	0.204	82.0	292.2	-3.7	0.221
4-3470	4-4490	0.692	66.2	23.8	1.31	1.304	59.0	0.777	3.070	72.6	182.9	---	5.455	-0.90	0.206	80.1	292.1	-3.7	0.221
4-3470	4-4510	0.685	66.8	23.9	1.33	1.304	59.4	0.775	3.080	71.6	183.4	---	5.468	-0.91	0.208	78.4	292.1	-3.7	0.221
4-3470	4-4530	0.677	67.4	24.1	1.36	1.304	59.8	0.774	3.090	70.7	184.0	---	5.482	-0.92	0.210	76.8	292.1	-3.7	0.221
4-3470	4-4550	0.670	68.0	24.3	1.39	1.305	60.3	0.772	3.102	69.7	184.5	---	5.496	-0.93	0.213	75.2	292.1	-3.7	0.222

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3470	4-4570	0.663	68.7	24.4	1.41	1.305	60.7	0.771	3.113	68.7	185.0	---	5.512	-0.94	0.215	73.8	292.3	-3.7	0.222
4-3470	4-4590	0.655	69.3	24.6	1.44	1.306	61.2	0.769	3.125	67.7	185.5	---	5.529	-0.96	0.218	72.4	292.4	-3.7	0.223
4-3470	4-4610	0.648	69.9	24.8	1.47	1.306	61.6	0.768	3.137	66.7	186.1	---	5.546	-0.97	0.220	71.1	292.6	-3.7	0.224
4-3470	4-4630	0.641	70.6	25.0	1.50	1.307	62.0	0.766	3.150	65.7	186.5	---	5.564	-0.99	0.223	69.9	292.9	-3.7	0.224
4-3470	4-4650	0.633	71.3	25.2	1.53	1.307	62.5	0.765	3.163	64.6	187.0	---	5.583	-1.00	0.226	68.7	293.2	-3.8	0.225
4-3470	4-4670	0.626	72.0	25.3	1.56	1.308	62.9	0.764	3.176	63.6	187.5	---	5.602	-1.02	0.228	67.6	293.6	-3.8	0.226
4-3470	4-4690	0.618	72.7	25.5	1.60	1.308	63.4	0.763	3.190	62.6	188.0	---	5.622	-1.04	0.231	66.5	294.0	-3.8	0.227
4-3470	4-4710	0.611	73.4	25.7	1.63	1.309	63.8	0.761	3.203	61.5	188.5	---	5.643	-1.06	0.234	65.6	294.4	-3.8	0.228
4-3470	4-4730	0.604	74.1	25.9	1.67	1.309	64.3	0.760	3.217	60.5	188.9	---	5.663	-1.08	0.236	64.6	294.9	-3.8	0.229
4-3470	4-4750	0.596	74.9	26.1	1.70	1.310	64.7	0.759	3.231	59.4	189.4	---	5.685	-1.10	0.239	63.7	295.4	-3.8	0.230
4-3470	4-4770	0.589	75.7	26.3	1.74	1.310	65.2	0.758	3.246	58.4	189.8	---	5.706	-1.13	0.242	62.9	296.0	-3.8	0.231
4-3470	4-4790	0.582	76.5	26.5	1.78	1.311	65.7	0.757	3.260	57.3	190.3	---	5.728	-1.16	0.245	62.1	296.6	-3.8	0.232
4-3470	4-4810	0.575	77.3	26.8	1.83	1.311	66.1	0.756	3.275	56.2	190.7	---	5.750	-1.19	0.248	61.3	297.2	-3.8	0.233
4-3470	4-4830	0.567	78.1	27.0	1.87	1.312	66.6	0.755	3.289	55.2	191.2	---	5.773	-1.22	0.250	60.6	297.9	-3.8	0.234
4-3470	4-4850	0.560	79.0	27.2	1.92	1.312	67.0	0.754	3.304	54.1	191.6	---	5.796	-1.25	0.253	59.9	298.6	-3.9	0.235
4-3470	4-4870	0.553	79.8	27.4	1.97	1.313	67.5	0.753	3.319	53.0	192.0	---	5.819	-1.29	0.256	59.2	299.3	-3.9	0.237
4-3470	4-4890	0.545	80.7	27.7	2.02	1.314	68.0	0.752	3.334	51.9	192.4	---	5.842	-1.33	0.258	58.6	300.0	-3.9	0.238
4-3470	4-4910	0.538	81.6	28.0	2.08	1.314	68.4	0.752	3.349	50.8	192.9	---	5.866	-1.37	0.261	58.0	300.8	-3.9	0.239
4-3470	4-4930	0.531	82.6	28.2	2.14	1.315	68.9	0.751	3.364	49.7	193.3	---	5.889	-1.42	0.264	57.4	301.6	-3.9	0.240
4-3470	4-4950	0.524	83.5	28.5	2.20	1.315	69.4	0.750	3.379	48.6	193.7	---	5.913	-1.48	0.267	56.8	302.4	-4.0	0.241
4-3470	4-4970	0.517	84.5	28.8	2.28	1.316	69.9	0.749	3.394	47.5	194.1	---	5.937	-1.54	0.269	56.3	303.3	-4.0	0.242
4-3470	4-4990	0.510	85.6	29.1	2.35	1.316	70.3	0.749	3.409	46.4	194.5	---	5.962	-1.60	0.272	55.8	304.1	-4.0	0.244
4-3470	5-5010	0.503	86.6	29.4	2.44	1.317	70.8	0.748	3.424	45.3	194.9	---	5.986	-1.67	0.274	55.3	305.0	-4.1	0.245
4-3470	4-5030	0.496	87.7	29.8	2.53	1.317	71.3	0.748	3.439	44.1	195.3	---	6.011	-1.75	0.277	54.8	305.9	-4.1	0.246
4-3470	4-5050	0.489	88.8	30.2	2.63	1.317	71.8	0.747	3.455	43.0	195.6	---	6.035	-1.84	0.280	54.3	306.9	-4.1	0.247
4-3470	4-5070	0.482	90.0	30.6	2.74	1.318	72.2	0.746	3.470	41.9	196.0	---	6.060	-1.94	0.282	53.9	307.8	-4.2	0.249
4-3480	4-3800	1.128	62.0	21.3	0.49	1.432	39.0	1.00944	4.937	101.4	147.4	---	---	-0.91	0.635	164.5	315.3	-2.4	0.648
4-3480	4-3820	1.105	61.5	21.3	0.53	1.411	39.4	0.98525	4.428	102.3	149.9	---	---	-0.89	0.584	163.3	314.8	-2.4	0.601
4-3480	4-3840	1.085	61.2	21.3	0.56	1.393	39.8	0.96511	4.137	102.9	152.2	---	---	-0.87	0.539	161.9	314.3	-2.5	0.559
4-3480	4-3860	1.068	61.0	21.3	0.59	1.377	40.2	0.948	3.912	103.4	154.2	---	---	-0.85	0.499	160.5	313.7	-2.5	0.522
4-3480	4-3880	1.052	60.8	21.3	0.62	1.365	40.6	0.934	6.030	103.7	156.1	---	---	-0.83	0.462	158.9	313.0	-2.5	0.490
4-3480	4-3900	1.038	60.7	21.3	0.65	1.354	41.1	0.922	5.140	103.8	157.9	---	---	-0.81	0.429	157.2	312.3	-2.6	0.460
4-3480	4-3920	1.025	60.7	21.3	0.68	1.345	41.5	0.912	4.575	103.8	159.5	---	---	-0.80	0.400	155.4	311.5	-2.6	0.434
4-3480	4-3940	1.013	60.7	21.4	0.71	1.338	41.9	0.903	4.188	103.7	161.0	---	---	-0.78	0.373	153.5	310.7	-2.6	0.411
4-3480	4-3960	1.001	60.8	21.4	0.73	1.332	42.3	0.895	3.911	103.5	162.4	---	---	-0.77	0.349	151.5	309.8	-2.7	0.390
4-3480	4-3980	0.990	61.0	21.5	0.76	1.326	42.7	0.888	3.704	103.2	163.7	---	---	-0.76	0.327	149.3	308.9	-2.7	0.371
4-3480	4-4000	0.980	61.1	21.5	0.78	1.322	43.1	0.881	3.546	102.8	164.9	---	---	-0.74	0.307	146.9	308.0	-2.8	0.354
4-3480	4-4020	0.970	61.3	21.6	0.80	1.318	43.5	0.875	3.422	102.4	166.1	---	---	-0.73	0.290	144.5	307.0	-2.8	0.339
4-3480	4-4040	0.961	61.6	21.7	0.82	1.315	44.0	0.870	3.325	101.9	167.1	---	---	-0.72	0.274	141.9	306.0	-2.9	0.325
4-3480	4-4060	0.951	61.8	21.7	0.85	1.312	44.4	0.865	3.247	101.3	168.2	---	---	-0.72	0.259	139.1	305.0	-2.9	0.313
4-3480	4-4080	0.942	62.1	21.8	0.87	1.310	44.8	0.860	3.185	100.7	169.1	---	---	-0.71	0.247	136.2	303.9	-2.9	0.303
4-3480	4-4100	0.933	62.4	21.9	0.89	1.308	45.3	0.856	3.135	100.1	170.1	---	---	-0.70	0.235	133.3	302.9	-3.0	0.293
4-3480	4-4120	0.925	62.7	22.0	0.91	1.306	45.7	0.852	3.095	99.4	171.0	---	---	-0.69	0.225	130.2	301.9	-3.0	0.284
4-3480	4-4140	0.916	63.1	22.1	0.93	1.305	46.1	0.848	3.063	98.7	171.8	---	---	-0.69	0.217	127.0	300.9	-3.1	0.277
4-3480	4-4160	0.908	63.4	22.2	0.95	1.304	46.6	0.844	3.037	97.9	172.6	---	---	-0.68	0.209	123.7	299.9	-3.1	0.270
4-3480	4-4180	0.899	63.8	22.3	0.97	1.303	47.0	0.841	3.017	97.1	173.4	---	---	-0.68	0.203	120.4	299.0	-3.1	0.264
4-3480	4-4200	0.891	64.2	22.4	0.99	1.302	47.5	0.838	3.001	96.3	174.2	---	---	-0.67	0.198	117.1	298.1	-3.2	0.259
4-3480	4-4220	0.883	64.6	22.5	1.00	1.302	47.9	0.835	2.989	95.5	174.9	---	---	-0.67	0.194	113.8	297.2	-3.2	0.255
4-3480	4-4240	0.875	65.0	22.6	1.02	1.301	48.4	0.832	2.981	94.7	175.6	---	---	-0.67	0.190	110.5	296.4	-3.2	0.251
4-3480	4-4260	0.867	65.5	22.7	1.04	1.301	48.8	0.829	2.975	93.8	176.3	---	---	-0.66	0.188	107.2	295.6	-3.2	0.247
4-3480	4-4280	0.859	65.9	22.8	1.06	1.301	49.3	0.826	2.972	92.9	176.9	---	---	-0.66	0.186	104.1	294.9	-3.3	0.244
4-3480	4-4300	0.850	66.4	22.9	1.08	1.301	49.7	0.823	2.971	92.0	177.6	---	---	-0.66	0.185	101.0	294.3	-3.3	0.242
4-3480	4-4320	0.842	66.8	23.1	1.09	1.301	50.2	0.821	2.972	91.1	178.2	---	---	-0.66	0.184	98.0	293.7	-3.3	0.240
4-3480	4-4340	0.834	67.3	23.2	1.11	1.301	50.6	0.818	2.975	90.2	178.8	---	---	-0.66	0.184	95.2	293.2	-3.3	0.238
4-3480	4-4360	0.826	67.8	23.3	1.13	1.301	51.1	0.816	2.979	89.2	179.4	---	---	-0.66	0.185	92.5	292.7	-3.3	0.237
4-3480	4-4380	0.818	68.3	23.4	1.15	1.301	51.6	0.813	2.985	88.3	180.0	---	5.413	-0.66	0.186	89.9	292.3	-3.4	0.236
4-3480	4-4400	0.810	68.8	23.5	1.17	1.302	52.0	0.811	2.991	87.3	180.6	---	5.418	-0.66	0.187	87.4	292.0	-3.4	0.235
4-3480	4-4420	0.803	69.3	23.6	1.18	1.302	52.5	0.809	2.999	86.4	181.2	---	5.425	-0.66	0.189	85.1	291.8	-3.4	0.234
4-3480	4-4440	0.795	69.8	23.7	1.20	1.302	52.9	0.807	3.007	85.4	181.7	---	5.434	-0.66	0.190	82.9	291.6	-3.4	0.234
4-3480	4-4460	0.787	70.4	23.9	1.22	1.303	53.4	0.805	3.017	84.4	182.2	---	5.444	-0.66	0.192	80.8	291.4	-3.4	0.233
4-3480	4-4480	0.779	70.9	24.0	1.24	1.303	53.9	0.803	3.027	83.4	182.8	---	5.456	-0.67	0.195	78.9	291.4	-3.4	0.233
4-3480	4-4500	0.771	71.5	24.1	1.25	1.304	54.3	0.801	3.037	82.4	183.3	---	5.469	-0.67	0.197	77.1	291.4	-3.4	0.233
4-3480	4-4520	0.763	72.0	24.2	1.27	1.304	54.8	0.799	3.048	81.4	183.8	---	5.483	-0.67	0.200	75.4	291.4	-3.4	0.233
4-3480	4-4540	0.755	72.6	24.3	1.29	1.305	55.3	0.797	3.060	80.4	184.3	---	5.499	-0.68	0.202	73.7	291.5	-3.4	0.234
4-3480	4-4560	0.747	73.2	24.4	1.31	1.305	55.7	0.795	3.072	79.3	184.8	---	5.515	-0.68	0.205	72.2	291.7	-3.4	0.234
4-3480	4-4580	0.739	73.8	24.6	1.33	1.306	56.2	0.793	3.085	78.3	185.3	---	5.532	-0.69	0.208	70.8	291.9	-3.4	0.234
4-3480	4-4600	0.731	74.4	24.7	1.35	1.306	56.7	0.791	3.098	77.3	185.8	---	5.550	-0.69	0.211	69.5	292.1	-3.4	0.235
4-3480	4-4620	0.723	75.0	24.8	1.37	1.307	57.1	0.790	3.111	76.2	186.2	---	5.568	-0.70	0.214	68.2	292.4	-3.4	0.235
4-3480	4-4640	0.715	75.6	24.9	1.39	1.307	57.6	0.788	3.125	75.2	186.7	---	5.587	-0.71	0.217	67.0	292.7	-3.4	0.236
4-3480	4-4660	0.707	76.3	25.1	1.41	1.308	58.1	0.786	3.139	74.1	187.2	---	5.607	-0.71	0.220	65.9	293.1	-3.4	0.237
4-3480	4-4680	0.699	76.9	25.2	1.43	1.308	58.6	0.785	3.153	73.1	187.6	---	5.627	-0.72	0.223	64.9	293.6	-3.4	0.237
4-3480	4-4700	0.691	77.6	25.3	1.45	1.309	59.0	0.783	3.167	72.0	188.1	---	5.648	-0.73	0.226	63.9	294.0	-3.4	0.238
4-3480	4-4720	0.684	78.2	25.4	1.47	1.309	59.5	0.782	3.182	71.0	188.5	---	5.669	-0.74	0.229	62.9	294.5	-3.4	0.239
4-3480	4-4740	0.676	78.9	25.6	1.49	1.310	60.0	0.780	3.196	69.9	189.0	---	5.691	-0.75	0.232	62.0	295.1	-3.4	0.240
4-3480	4-4760	0.668	79.6	25.7	1.52	1.311	60.5	0.779	3.211	68.8	189.4	---	5.713	-0.76	0.235	61.2	295.6	-3.4	0.241
4-3480	4-4780	0.660	80.3	25.8	1.54	1.311	60.9	0.777	3.226	67.7	189.8	---	5.735	-0.78	0.238	60.4	296.3	-3.4	0.242
4-3480	4-4800	0.652	81.1	26.0	1.56	1.312	61.4	0.776	3.241	66.6	190.3	---	5.757	-0.79	0.241	59.7	296.9	-3.4	0.242
4-3480	4-4820	0.644	81.8	26.1	1.59	1.312	61.9	0.775	3.257	65.6	190.7	---	5.780	-0.80	0.244	59.0	297.6	-3.4	0.243
4-3480	4-4840	0.636	82.5	26.2	1.62	1.313	62.4	0.773	3.272	64.5	191.1	---	5.803	-0.82	0.247	58.3	298.3	-3.4	0.244
4-3480	4-4860	0.628	83.3	26.4	1.64	1.313	62.8	0.772	3.287	63.4	191.5	---	5.826	-0.84	0.250	57.6	299.0	-3.4	0.245

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3480	4-4880	0.620	84.1	26.5	1.67	1.314	63.3	0.771	3.303	62.3	191.9	---	5.850	-0.85	0.253	57.0	299.7	-3.4	0.246
4-3480	4-4900	0.613	84.9	26.6	1.70	1.314	63.8	0.770	3.319	61.2	192.3	---	5.873	-0.87	0.256	56.5	300.5	-3.4	0.247
4-3480	4-4920	0.605	85.7	26.8	1.73	1.315	64.3	0.769	3.334	60.1	192.7	---	5.897	-0.89	0.259	55.9	301.3	-3.4	0.248
4-3480	4-4940	0.597	86.5	26.9	1.77	1.315	64.8	0.768	3.350	58.9	193.1	---	5.921	-0.92	0.262	55.4	302.1	-3.4	0.249
4-3480	4-4960	0.589	87.4	27.1	1.80	1.316	65.3	0.766	3.365	57.8	193.5	---	5.945	-0.94	0.264	54.9	303.0	-3.4	0.250
4-3480	4-4980	0.581	88.3	27.2	1.84	1.316	65.7	0.765	3.381	56.7	193.9	---	5.969	-0.97	0.267	54.4	303.8	-3.4	0.251
4-3480	4-5000	0.574	89.1	27.4	1.88	1.317	66.2	0.764	3.397	55.6	194.3	---	5.994	-1.00	0.270	53.9	304.7	-3.4	0.252
4-3480	4-5020	0.566	90.1	27.5	1.92	1.318	66.7	0.763	3.413	54.4	194.7	---	6.018	-1.03	0.273	53.5	305.6	-3.4	0.253
4-3480	4-5040	0.558	91.0	27.7	1.96	1.318	67.2	0.763	3.428	53.3	195.1	---	6.043	-1.06	0.275	53.1	306.6	-3.4	0.254
4-3480	4-5060	0.551	91.9	27.9	2.01	1.319	67.7	0.762	3.444	52.2	195.5	---	6.067	-1.10	0.278	52.6	307.5	-3.4	0.256
4-3480	4-5080	0.543	92.9	28.1	2.06	1.319	68.2	0.761	3.460	51.0	195.8	---	6.092	-1.14	0.281	52.3	308.5	-3.4	0.257
4-3490	4-3810	1.254	65.3	21.9	0.62	1.423	31.3	0.99858	3.352	117.6	154.3	---	---	-0.75	0.612	166.9	313.1	-2.4	0.647
4-3490	4-3830	1.228	65.1	21.9	0.66	1.402	31.9	0.98315	3.334	117.9	156.2	---	---	-0.72	0.562	165.7	312.5	-2.4	0.601
4-3490	4-3850	1.206	65.0	21.9	0.69	1.385	32.5	0.969	8.825	118.0	157.9	---	---	-0.70	0.517	164.4	311.9	-2.5	0.560
4-3490	4-3870	1.186	65.0	21.9	0.72	1.371	33.0	0.958	6.542	118.0	159.5	---	---	-0.68	0.476	162.9	311.2	-2.5	0.524
4-3490	4-3890	1.168	65.0	21.9	0.75	1.359	33.6	0.948	5.389	117.9	161.0	---	---	-0.66	0.440	161.4	310.4	-2.5	0.492
4-3490	4-3910	1.152	65.1	22.0	0.77	1.349	34.2	0.939	4.700	117.6	162.3	---	---	-0.64	0.407	159.7	309.6	-2.6	0.464
4-3490	4-3930	1.136	65.2	22.0	0.80	1.340	34.7	0.931	4.248	117.2	163.6	---	---	-0.62	0.378	157.9	308.8	-2.6	0.439
4-3490	4-3950	1.122	65.4	22.1	0.82	1.333	35.3	0.924	3.931	116.8	164.8	---	---	-0.60	0.351	156.0	307.9	-2.6	0.416
4-3490	4-3970	1.109	65.6	22.1	0.84	1.327	35.8	0.918	3.700	116.3	165.8	---	---	-0.59	0.327	153.8	307.0	-2.7	0.396
4-3490	4-3990	1.096	65.8	22.2	0.86	1.322	36.3	0.912	3.527	115.7	166.9	---	---	-0.58	0.305	151.6	306.1	-2.7	0.378
4-3490	4-4010	1.084	66.1	22.3	0.88	1.318	36.9	0.906	3.393	115.1	167.8	---	---	-0.56	0.286	149.2	305.1	-2.7	0.362
4-3490	4-4030	1.073	66.4	22.4	0.90	1.314	37.4	0.901	3.289	114.4	168.8	---	---	-0.55	0.268	146.5	304.1	-2.8	0.348
4-3490	4-4050	1.062	66.7	22.4	0.92	1.311	37.9	0.897	3.206	113.7	169.6	---	---	-0.54	0.252	143.8	303.1	-2.8	0.335
4-3490	4-4070	1.051	67.0	22.5	0.94	1.309	38.4	0.892	3.140	113.0	170.5	---	---	-0.53	0.238	140.8	302.1	-2.8	0.323
4-3490	4-4090	1.041	67.4	22.6	0.96	1.307	38.9	0.888	3.088	112.2	171.3	---	---	-0.52	0.225	137.7	301.1	-2.9	0.313
4-3490	4-4110	1.031	67.8	22.7	0.97	1.305	39.5	0.884	3.046	111.4	172.0	---	---	-0.51	0.214	134.4	300.2	-2.9	0.304
4-3490	4-4130	1.021	68.1	22.7	0.99	1.304	40.0	0.880	3.012	110.6	172.8	---	---	-0.51	0.204	131.0	299.2	-2.9	0.296
4-3490	4-4150	1.011	68.5	22.8	1.00	1.303	40.5	0.876	2.986	109.7	173.5	---	---	-0.50	0.196	127.5	298.3	-3.0	0.289
4-3490	4-4170	1.002	68.9	22.9	1.02	1.302	41.0	0.873	2.965	108.8	174.2	---	---	-0.49	0.189	123.9	297.4	-3.0	0.283
4-3490	4-4190	0.992	69.4	23.0	1.03	1.301	41.5	0.869	2.949	107.9	174.8	---	---	-0.49	0.183	120.2	296.5	-3.0	0.277
4-3490	4-4210	0.983	69.8	23.1	1.05	1.300	42.0	0.866	2.938	107.0	175.5	---	---	-0.48	0.178	116.5	295.7	-3.0	0.272
4-3490	4-4230	0.974	70.2	23.2	1.06	1.300	42.5	0.863	2.929	106.1	176.1	---	---	-0.48	0.174	112.8	295.0	-3.1	0.268
4-3490	4-4250	0.965	70.7	23.3	1.08	1.300	43.1	0.860	2.924	105.2	176.7	---	---	-0.47	0.172	109.1	294.3	-3.1	0.264
4-3490	4-4270	0.956	71.1	23.3	1.09	1.300	43.6	0.857	2.921	104.2	177.3	---	---	-0.47	0.170	105.5	293.7	-3.1	0.261
4-3490	4-4290	0.947	71.6	23.4	1.10	1.300	44.1	0.854	2.921	103.2	177.9	---	---	-0.47	0.169	102.0	293.1	-3.1	0.258
4-3490	4-4310	0.938	72.1	23.5	1.12	1.300	44.6	0.851	2.922	102.3	178.5	---	---	-0.46	0.168	98.7	292.6	-3.1	0.256
4-3490	4-4330	0.929	72.6	23.6	1.13	1.300	45.1	0.848	2.925	101.3	179.0	---	---	-0.46	0.168	95.4	292.1	-3.1	0.254
4-3490	4-4350	0.921	73.1	23.7	1.14	1.300	45.6	0.845	2.930	100.3	179.6	---	---	-0.46	0.169	92.4	291.7	-3.2	0.252
4-3490	4-4370	0.912	73.6	23.8	1.15	1.300	46.1	0.843	2.936	99.3	180.1	---	5.411	-0.45	0.170	89.5	291.4	-3.2	0.251
4-3490	4-4390	0.903	74.1	23.9	1.17	1.301	46.6	0.840	2.943	98.3	180.6	---	5.416	-0.45	0.172	86.7	291.1	-3.2	0.250
4-3490	4-4410	0.895	74.6	23.9	1.18	1.301	47.1	0.838	2.951	97.3	181.1	---	5.424	-0.45	0.174	84.1	290.9	-3.2	0.249
4-3490	4-4430	0.886	75.1	24.0	1.19	1.301	47.6	0.835	2.960	96.2	181.6	---	5.433	-0.45	0.176	81.7	290.8	-3.2	0.248
4-3490	4-4450	0.877	75.6	24.1	1.20	1.302	48.1	0.833	2.970	95.2	182.1	---	5.444	-0.45	0.179	79.5	290.7	-3.2	0.248
4-3490	4-4470	0.869	76.2	24.2	1.21	1.302	48.6	0.830	2.981	94.2	182.6	---	5.456	-0.45	0.182	77.4	290.7	-3.2	0.247
4-3490	4-4490	0.860	76.7	24.3	1.23	1.303	49.1	0.828	2.992	93.1	183.1	---	5.470	-0.45	0.184	75.4	290.7	-3.2	0.247
4-3490	4-4510	0.852	77.2	24.4	1.24	1.303	49.6	0.826	3.004	92.1	183.6	---	5.485	-0.45	0.187	73.6	290.8	-3.2	0.247
4-3490	4-4530	0.843	77.8	24.5	1.25	1.304	50.1	0.824	3.016	91.0	184.1	---	5.501	-0.45	0.191	71.9	290.9	-3.2	0.247
4-3490	4-4550	0.835	78.4	24.5	1.26	1.304	50.6	0.822	3.029	90.0	184.5	---	5.518	-0.45	0.194	70.3	291.1	-3.2	0.247
4-3490	4-4570	0.826	78.9	24.6	1.27	1.305	51.1	0.819	3.042	88.9	185.0	---	5.535	-0.45	0.197	68.8	291.4	-3.2	0.247
4-3490	4-4590	0.818	79.5	24.7	1.29	1.306	51.6	0.817	3.056	87.9	185.4	---	5.553	-0.45	0.200	67.4	291.7	-3.2	0.248
4-3490	4-4610	0.809	80.1	24.8	1.30	1.306	52.1	0.815	3.070	86.8	185.9	---	5.572	-0.45	0.204	66.1	292.0	-3.2	0.248
4-3490	4-4630	0.801	80.7	24.9	1.31	1.307	52.6	0.813	3.084	85.7	186.3	---	5.592	-0.46	0.207	64.9	292.3	-3.2	0.249
4-3490	4-4650	0.792	81.3	25.0	1.32	1.307	53.1	0.811	3.099	84.6	186.8	---	5.612	-0.46	0.210	63.8	292.8	-3.2	0.249
4-3490	4-4670	0.784	81.9	25.0	1.33	1.308	53.6	0.809	3.113	83.6	187.2	---	5.633	-0.46	0.214	62.8	293.2	-3.2	0.250
4-3490	4-4690	0.775	82.5	25.1	1.35	1.308	54.1	0.807	3.128	82.5	187.6	---	5.654	-0.46	0.217	61.8	293.7	-3.2	0.250
4-3490	4-4710	0.767	83.1	25.2	1.36	1.309	54.6	0.806	3.143	81.4	188.1	---	5.676	-0.47	0.221	60.8	294.2	-3.2	0.251
4-3490	4-4730	0.758	83.8	25.3	1.37	1.310	55.1	0.804	3.159	80.3	188.5	---	5.697	-0.47	0.224	60.0	294.8	-3.1	0.251
4-3490	4-4750	0.750	84.4	25.3	1.39	1.310	55.6	0.802	3.174	79.2	188.9	---	5.720	-0.48	0.227	59.2	295.4	-3.1	0.252
4-3490	4-4770	0.742	85.0	25.4	1.40	1.311	56.1	0.800	3.190	78.1	189.3	---	5.742	-0.48	0.231	58.4	296.0	-3.1	0.253
4-3490	4-4790	0.733	85.7	25.5	1.41	1.311	56.6	0.799	3.205	77.0	189.7	---	5.765	-0.49	0.234	57.7	296.6	-3.1	0.253
4-3490	4-4810	0.725	86.4	25.6	1.43	1.312	57.1	0.797	3.221	75.9	190.1	---	5.788	-0.49	0.237	57.0	297.3	-3.1	0.254
4-3490	4-4830	0.716	87.1	25.6	1.44	1.313	57.6	0.795	3.237	74.8	190.5	---	5.811	-0.50	0.240	56.3	298.0	-3.1	0.255
4-3490	4-4850	0.708	87.7	25.7	1.46	1.313	58.1	0.794	3.253	73.7	190.9	---	5.835	-0.50	0.243	55.7	298.7	-3.1	0.256
4-3490	4-4870	0.700	88.4	25.8	1.47	1.314	58.6	0.792	3.269	72.6	191.3	---	5.859	-0.51	0.247	55.1	299.5	-3.1	0.256
4-3490	4-4890	0.691	89.2	25.9	1.49	1.314	59.1	0.791	3.285	71.5	191.7	---	5.882	-0.52	0.250	54.6	300.3	-3.1	0.257
4-3490	4-4910	0.683	89.9	25.9	1.50	1.315	59.6	0.789	3.301	70.3	192.1	---	5.906	-0.53	0.253	54.1	301.1	-3.0	0.258
4-3490	4-4930	0.675	90.6	26.0	1.52	1.315	60.1	0.788	3.318	69.2	192.5	---	5.930	-0.54	0.256	53.6	301.9	-3.0	0.259
4-3490	4-4950	0.666	91.4	26.1	1.54	1.316	60.6	0.786	3.334	68.1	192.9	---	5.955	-0.55	0.259	53.1	302.8	-3.0	0.260
4-3490	4-4970	0.658	92.1	26.2	1.56	1.316	61.1	0.785	3.350	67.0	193.3	---	5.979	-0.56	0.262	52.7	303.6	-3.0	0.261
4-3490	4-4990	0.650	92.9	26.2	1.57	1.317	61.6	0.783	3.366	65.8	193.7	---	6.004	-0.57	0.265	52.2	304.5	-3.0	0.261
4-3490	4-5010	0.642	93.7	26.3	1.59	1.318	62.1	0.782	3.383	64.7	194.0	---	6.028	-0.58	0.268	51.8	305.4	-3.0	0.262
4-3490	4-5030	0.633	94.5	26.4	1.61	1.318	62.6	0.781	3.399	63.6	194.4	---	6.053	-0.59	0.271	51.4	306.3	-2.9	0.263
4-3490	4-5050	0.625	95.3	26.4	1.64	1.319	63.1	0.780	3.415	62.4	194.8	---	6.077	-0.61	0.274	51.1	307.3	-2.9	0.264
4-3490	4-5070	0.617	96.2	26.5	1.66	1.319	63.6	0.778	3.431	61.3	195.2	---	6.102	-0.62	0.276	50.7	308.2	-2.9	0.265
4-3490	4-5090	0.609	97.0	26.6	1.68	1.320	64.1	0.777	3.448	60.1	195.5	---	6.127	-0.64	0.279	50.4	309.2	-2.9	0.266
4-3500	4-3840	1.352	69.3	22.5	0.88	1.395	24.2	0.98611	1.598	133.5	162.3	---	---	-0.47	0.542	168.6	310.1	-2.4	0.606
4-3500	4-3860	1.327	69.4	22.5	0.90	1.379	25.0	0.978	7.538	133.0	163.5	---	---	-0.44	0.497	167.4	309.4	-2.5	0.567
4-3500	4-3880	1.304	69.5	22.5	0.93	1.365	25.7	0.971	5.856	132.4	164.6	---	---	-0.42	0.457	166.0	308.7	-2.5	0.531
4-3500	4-3900	1.284	69.7	22.6	0.95	1.353	26.4	0.964	4.946	131.8	165.6	---	---	-0.40	0.420	164.5	307.9	-2.5	0.500

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3710	4-4530	0.624	103.8	20.1	-1.51	1.288	118.2	0.767	3.238	293.8	529.8	0.753	---	0.46	0.243	119.1	334.7	-0.9	0.235
4-3710	4-4550	0.625	104.1	20.1	-1.49	1.287	118.3	0.766	3.206	293.4	530.9	0.751	---	0.45	0.236	116.4	333.4	-1.0	0.229
4-3710	4-4570	0.626	104.4	20.1	-1.48	1.286	118.4	0.765	3.180	293.0	532.0	0.748	---	0.44	0.230	113.6	332.1	-1.0	0.225
4-3710	4-4590	0.629	104.7	20.1	-1.46	1.285	118.6	0.764	3.158	292.6	533.1	0.745	---	0.44	0.225	110.8	330.8	-1.1	0.221
4-3710	4-4610	0.631	105.0	20.1	-1.45	1.284	118.8	0.764	3.140	292.1	534.1	0.742	---	0.43	0.221	108.0	329.4	-1.1	0.218
4-3710	4-4630	0.634	105.3	20.1	-1.44	1.284	119.0	0.764	3.124	291.6	535.1	0.738	---	0.43	0.217	105.2	328.2	-1.2	0.215
4-3710	4-4650	0.638	105.7	20.1	-1.43	1.283	119.2	0.764	3.112	291.0	536.1	0.734	---	0.42	0.214	102.4	326.9	-1.3	0.213
4-3710	4-4670	0.642	106.1	20.1	-1.41	1.283	119.5	0.765	3.102	290.4	537.0	0.729	---	0.41	0.211	99.6	325.7	-1.3	0.212
4-3710	4-4690	0.646	106.5	20.1	-1.40	1.283	119.8	0.766	3.094	289.8	537.9	0.725	---	0.41	0.209	96.8	324.6	-1.4	0.212
4-3710	4-4710	0.651	106.9	20.1	-1.39	1.282	120.1	0.767	3.088	289.1	538.8	0.720	---	0.41	0.207	94.1	323.6	-1.4	0.211
4-3710	4-4730	0.656	107.4	20.1	-1.38	1.282	120.4	0.768	3.084	288.4	539.6	0.714	---	0.40	0.206	91.4	322.6	-1.5	0.212
4-3710	4-4750	0.662	107.9	20.1	-1.37	1.282	120.7	0.770	3.082	287.7	540.4	0.709	5.454	0.40	0.205	88.8	321.7	-1.5	0.212
4-3710	4-4770	0.668	108.3	20.1	-1.36	1.282	121.1	0.772	3.080	287.0	541.1	0.703	5.458	0.40	0.205	86.3	321.0	-1.6	0.214
4-3710	4-4790	0.674	108.8	20.1	-1.35	1.282	121.4	0.774	3.080	286.2	541.8	0.696	5.464	0.39	0.205	83.8	320.3	-1.6	0.215
4-3710	4-4810	0.681	109.3	20.1	-1.34	1.282	121.8	0.776	3.081	285.4	542.5	0.690	5.473	0.39	0.205	81.4	319.7	-1.6	0.217
4-3710	4-4830	0.688	109.9	20.1	-1.32	1.282	122.2	0.779	3.084	284.5	543.2	0.683	5.484	0.39	0.206	79.0	319.2	-1.6	0.219
4-3710	4-4850	0.695	110.4	20.1	-1.31	1.282	122.7	0.781	3.087	283.6	543.8	0.676	5.498	0.39	0.207	76.7	318.8	-1.7	0.221
4-3710	4-4870	0.702	111.0	20.0	-1.30	1.282	123.1	0.784	3.090	282.7	544.4	0.668	5.513	0.38	0.208	74.5	318.5	-1.7	0.224
4-3710	4-4890	0.710	111.5	20.0	-1.29	1.283	123.6	0.787	3.095	281.8	545.0	0.660	5.530	0.38	0.209	72.4	318.3	-1.7	0.227
4-3710	4-4910	0.718	112.1	20.0	-1.28	1.283	124.0	0.790	3.100	280.9	545.6	0.652	5.549	0.38	0.210	70.3	318.2	-1.7	0.230
4-3710	4-4930	0.727	112.7	19.9	-1.27	1.283	124.5	0.793	3.106	279.9	546.1	0.644	5.569	0.38	0.212	68.3	318.1	-1.7	0.233
4-3710	4-4950	0.735	113.2	19.9	-1.26	1.283	125.0	0.796	3.113	278.9	546.6	0.635	5.591	0.38	0.214	66.4	318.2	-1.7	0.237
4-3710	4-4970	0.744	113.8	19.9	-1.25	1.284	125.5	0.799	3.120	277.8	547.1	0.626	5.614	0.38	0.216	64.5	318.3	-1.7	0.240
4-3710	4-4990	0.754	114.4	19.8	-1.24	1.284	126.1	0.803	3.128	276.8	547.6	0.617	5.638	0.38	0.218	62.7	318.5	-1.7	0.244
4-3710	4-5010	0.763	115.1	19.8	-1.23	1.284	126.6	0.806	3.136	275.7	548.0	0.608	5.664	0.38	0.220	60.9	318.8	-1.7	0.248
4-3710	4-5030	0.773	115.7	19.7	-1.22	1.285	127.2	0.810	3.144	274.6	548.4	0.598	5.691	0.38	0.222	59.3	319.2	-1.7	0.252
4-3710	4-5060	0.783	116.3	19.6	-1.21	1.285	127.7	0.814	3.153	273.5	548.8	0.588	5.719	0.38	0.225	57.6	319.6	-1.7	0.256
4-3710	4-5070	0.794	116.9	19.6	-1.20	1.285	128.3	0.817	3.163	272.3	549.2	0.578	5.748	0.38	0.227	56.0	320.1	-1.7	0.260
4-3710	4-5090	0.804	117.6	19.5	-1.19	1.286	128.9	0.821	3.172	271.1	549.5	0.567	5.777	0.38	0.230	54.5	320.6	-1.7	0.264
4-3710	4-5110	0.815	118.2	19.4	-1.18	1.286	129.6	0.825	3.182	269.9	549.8	0.556	5.808	0.39	0.232	53.0	321.2	-1.7	0.268
4-3710	4-5130	0.826	118.9	19.4	-1.17	1.286	130.2	0.829	3.192	268.7	550.1	0.545	5.840	0.39	0.235	51.6	321.9	-1.6	0.273
4-3710	4-5150	0.838	119.5	19.3	-1.16	1.287	130.8	0.833	3.203	267.5	550.4	0.534	5.872	0.39	0.237	50.2	322.6	-1.6	0.277
4-3710	4-5170	0.849	120.2	19.2	-1.15	1.287	131.5	0.837	3.214	266.2	550.7	0.522	5.905	0.39	0.240	48.8	323.3	-1.6	0.282
4-3710	4-5190	0.861	120.9	19.1	-1.14	1.288	132.2	0.842	3.225	264.9	550.9	0.511	5.939	0.40	0.243	47.5	324.2	-1.5	0.286
4-3710	4-5210	0.873	121.5	19.0	-1.13	1.288	132.9	0.846	3.236	263.6	551.1	0.499	5.973	0.40	0.245	46.2	325.0	-1.5	0.291
4-3710	4-5230	0.886	122.2	18.9	-1.12	1.289	133.6	0.850	3.247	262.3	551.3	0.486	6.008	0.40	0.248	44.9	325.9	-1.5	0.296
4-3710	4-5250	0.898	122.9	18.8	-1.11	1.289	134.3	0.855	3.259	260.9	551.5	0.474	6.044	0.41	0.251	43.7	326.8	-1.4	0.300
4-3710	4-5270	0.911	123.6	18.7	-1.09	1.289	135.0	0.859	3.271	259.5	551.6	0.461	6.081	0.41	0.254	42.5	327.8	-1.4	0.305
4-3710	4-5290	0.924	124.3	18.6	-1.08	1.290	135.8	0.863	3.283	258.1	551.8	0.448	6.118	0.42	0.257	41.3	328.8	-1.4	0.310
4-3710	4-5310	0.938	125.0	18.5	-1.07	1.290	136.5	0.868	3.295	256.7	551.9	0.435	6.155	0.42	0.259	40.1	329.9	-1.3	0.315
4-3720	4-4140	0.777	110.9	17.1	-3.15	1.421	121.8	1.03620.544		297.6	494.0	0.738	---	2.06	0.650	159.4	348.1	0.1	0.624
4-3720	4-4160	0.747	110.4	17.3	-2.97	1.403	120.8	0.99857.332		298.3	496.2	0.748	---	1.89	0.609	158.0	348.3	0.1	0.583
4-3720	4-4180	0.721	110.0	17.4	-2.81	1.387	119.9	0.96521.943		298.9	498.4	0.758	---	1.74	0.572	156.6	348.5	0.1	0.546
4-3720	4-4200	0.698	109.6	17.6	-2.68	1.374	119.1	0.93712.091		299.5	500.6	0.766	---	1.62	0.538	155.1	348.5	0.1	0.512
4-3720	4-4220	0.678	109.2	17.7	-2.57	1.362	118.4	0.911	8.723	300.1	502.7	0.774	---	1.51	0.507	153.5	348.5	0.1	0.482
4-3720	4-4240	0.660	108.8	17.8	-2.47	1.352	117.8	0.889	7.033	300.6	504.8	0.780	---	1.42	0.479	151.9	348.5	0.1	0.454
4-3720	4-4260	0.644	108.5	17.9	-2.38	1.343	117.2	0.869	6.023	301.0	506.8	0.786	---	1.34	0.453	150.2	348.3	0.1	0.428
4-3720	4-4280	0.631	108.2	18.0	-2.30	1.335	116.7	0.852	5.356	301.4	508.7	0.791	---	1.27	0.429	148.5	348.1	0.1	0.404
4-3720	4-4300	0.619	108.0	18.1	-2.23	1.329	116.3	0.837	4.885	301.7	510.6	0.796	---	1.21	0.407	146.6	347.8	0.1	0.382
4-3720	4-4320	0.608	107.8	18.2	-2.16	1.323	115.9	0.824	4.537	302.0	512.4	0.800	---	1.15	0.387	144.7	347.3	0.0	0.362
4-3720	4-4340	0.599	107.6	18.2	-2.10	1.318	115.6	0.812	4.271	302.2	514.2	0.803	---	1.10	0.369	142.7	346.8	0.0	0.344
4-3720	4-4360	0.592	107.5	18.3	-2.05	1.313	115.3	0.802	4.063	302.4	515.9	0.806	---	1.06	0.352	140.7	346.3	-0.0	0.327
4-3720	4-4380	0.585	107.4	18.4	-2.00	1.309	115.1	0.793	3.897	302.5	517.5	0.808	---	1.02	0.336	138.6	345.6	-0.0	0.312
4-3720	4-4400	0.580	107.4	18.5	-1.96	1.305	114.9	0.785	3.762	302.6	519.1	0.809	---	0.98	0.322	136.4	344.8	-0.1	0.298
4-3720	4-4420	0.575	107.4	18.5	-1.91	1.302	114.8	0.778	3.651	302.6	520.7	0.810	---	0.95	0.308	134.1	344.0	-0.1	0.285
4-3720	4-4440	0.572	107.4	18.6	-1.87	1.300	114.7	0.772	3.560	302.6	522.1	0.811	---	0.91	0.296	131.8	343.0	-0.2	0.274
4-3720	4-4460	0.569	107.5	18.6	-1.84	1.297	114.6	0.767	3.483	302.5	523.6	0.811	---	0.89	0.285	129.4	342.0	-0.2	0.263
4-3720	4-4480	0.567	107.6	18.7	-1.80	1.295	114.6	0.763	3.419	302.3	525.0	0.811	---	0.86	0.275	126.9	340.9	-0.3	0.254
4-3720	4-4500	0.566	107.8	18.7	-1.77	1.293	114.6	0.759	3.365	302.2	526.3	0.810	---	0.84	0.266	124.4	339.8	-0.3	0.245
4-3720	4-4520	0.565	108.0	18.8	-1.74	1.292	114.6	0.756	3.319	301.9	527.6	0.809	---	0.81	0.258	121.8	338.5	-0.4	0.238
4-3720	4-4540	0.565	108.2	18.8	-1.71	1.290	114.7	0.754	3.280	301.7	528.8	0.808	---	0.79	0.251	119.2	337.3	-0.4	0.231
4-3720	4-4560	0.566	108.4	18.9	-1.68	1.289	114.8	0.752	3.247	301.3	530.0	0.806	---	0.78	0.244	116.6	336.0	-0.5	0.225
4-3720	4-4580	0.567	108.7	18.9	-1.65	1.288	114.9	0.750	3.220	301.0	531.2	0.804	---	0.76	0.238	113.9	334.7	-0.6	0.220
4-3720	4-4600	0.569	109.0	18.9	-1.63	1.287	115.0	0.749	3.196	300.6	532.3	0.802	---	0.74	0.233	111.3	333.4	-0.6	0.216
4-3720	4-4620	0.571	109.3	19.0	-1.60	1.287	115.2	0.749	3.177	300.1	533.4	0.799	---	0.73	0.229	108.6	332.0	-0.7	0.212
4-3720	4-4640	0.573	109.7	19.0	-1.58	1.286	115.4	0.748	3.160	299.7	534.4	0.796	---	0.71	0.225	105.9	330.7	-0.8	0.210
4-3720	4-4660	0.576	110.1	19.0	-1.56	1.285	115.6	0.748	3.147	299.1	535.4	0.792	---	0.70	0.222	103.2	329.5	-0.8	0.207
4-3720	4-4680	0.580	110.5	19.0	-1.54	1.285	115.8	0.749	3.136	298.6	536.4	0.789	---	0.69	0.219	100.6	328.3	-0.9	0.206
4-3720	4-4700	0.584	110.9	19.0	-1.51	1.285	116.1	0.749	3.127	298.0	537.3	0.785	---	0.68	0.217	98.0	327.1	-1.0	0.205
4-3720	4-4720	0.588	111.4	19.0	-1.49	1.284	116.3	0.750	3.121	297.4	538.2	0.780	---	0.67	0.215	95.4	326.0	-1.0	0.204
4-3720	4-4740	0.592	111.8	19.0	-1.47	1.284	116.6	0.751	3.116	296.7	539.1	0.776	---	0.66	0.214	92.9	325.0	-1.1	0.204
4-3720	4-4760	0.597	112.3	19.0	-1.45	1.284	116.9	0.752	3.113	296.0	539.9	0.771	---	0.65	0.213	90.4	324.1	-1.1	0.205
4-3720	4-4780	0.603	112.8	19.0	-1.44	1.284	117.3	0.754	3.111	295.3	540.7	0.765	5.456	0.64	0.213	87.9	323.2	-1.2	0.205
4-3720	4-4800	0.608	113.3	19.0	-1.42	1.284	117.6	0.756	3.110	294.6	541.4	0.760	5.460	0.63	0.212	85.6	322.5	-1.2	0.207
4-3720	4-4820	0.614	113.9	19.0	-1.40	1.284	118.0	0.758	3.111	293.8	542.2	0.754	5.467	0.63	0.213	83.3	321.8	-1.3	0.208
4-3720	4-4840	0.620	114.4	19.0	-1.38	1.284	118.3	0.760	3.112	293.0	542.9	0.748	5.476	0.62	0.213	81.0	321.2	-1.3	0.210
4-3720	4-4860	0.627	115.0	19.0	-1.36	1.284	118.7	0.762	3.115	292.2	543.6	0.742	5.488	0.61	0.214	78.8	320.8	-1.3	0.212
4-3720	4-4880	0.634	115.6	18.9	-1.35	1.284	119.1	0.764	3.118	291.3	544.2	0.735	5.501	0.61	0.215	76.7	320.4	-1.4	0.214
4-3720	4-4900	0.641	116.1	18.9	-1.33	1.284	119.5	0.767	3.122	290.4	544.8	0.728	5.516	0.60	0.216	74.7	320.1	-1.4	0.217
4-3720	4-4920	0.648	116.7	18.9	-1.31	1.285	120.0	0.769	3.127	289.5	545.4	0.721	5.533	0.60	0.217	72.7	319.9	-1.4	0.219

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3720	4-4940	0.656	117.3	18.8	-1.30	1.285	120.4	0.772	3.133	288.6	546.0	0.714	5.552	0.60	0.219	70.8	319.8	-1.4	0.222
4-3720	4-4960	0.664	118.0	18.8	-1.28	1.285	120.9	0.775	3.139	287.6	546.6	0.706	5.572	0.59	0.220	68.9	319.8	-1.4	0.225
4-3720	4-4980	0.672	118.6	18.7	-1.27	1.285	121.4	0.778	3.146	286.6	547.1	0.698	5.593	0.59	0.222	67.2	319.8	-1.5	0.229
4-3720	4-5000	0.681	119.2	18.7	-1.25	1.286	121.9	0.781	3.153	285.6	547.6	0.690	5.616	0.59	0.224	65.4	320.0	-1.5	0.232
4-3720	4-5020	0.690	119.8	18.6	-1.23	1.286	122.4	0.784	3.161	284.6	548.1	0.681	5.640	0.59	0.226	63.7	320.2	-1.5	0.236
4-3720	4-5040	0.699	120.5	18.6	-1.22	1.286	122.9	0.788	3.169	283.5	548.5	0.672	5.665	0.58	0.228	62.1	320.5	-1.5	0.239
4-3720	4-5060	0.708	121.1	18.5	-1.20	1.287	123.4	0.791	3.177	282.4	549.0	0.663	5.691	0.58	0.230	60.6	320.8	-1.5	0.243
4-3720	4-5080	0.717	121.8	18.4	-1.19	1.287	124.0	0.795	3.186	281.3	549.4	0.654	5.718	0.58	0.232	59.0	321.2	-1.5	0.247
4-3720	4-5100	0.727	122.4	18.4	-1.17	1.287	124.5	0.798	3.195	280.2	549.8	0.644	5.746	0.58	0.235	57.6	321.7	-1.4	0.251
4-3720	4-5120	0.737	123.1	18.3	-1.16	1.288	125.1	0.802	3.205	279.1	550.2	0.635	5.775	0.58	0.237	56.1	322.2	-1.4	0.255
4-3720	4-5140	0.748	123.8	18.2	-1.14	1.288	125.7	0.806	3.215	277.9	550.5	0.624	5.805	0.58	0.240	54.7	322.8	-1.4	0.259
4-3720	4-5160	0.758	124.5	18.1	-1.13	1.288	126.3	0.810	3.225	276.7	550.8	0.614	5.836	0.58	0.242	53.4	323.5	-1.4	0.263
4-3720	4-5180	0.769	125.1	18.0	-1.11	1.289	126.9	0.814	3.235	275.5	551.1	0.603	5.867	0.59	0.245	52.1	324.2	-1.4	0.267
4-3720	4-5200	0.780	125.8	17.9	-1.09	1.289	127.6	0.818	3.246	274.2	551.4	0.592	5.900	0.59	0.247	50.8	324.9	-1.3	0.271
4-3720	4-5220	0.791	126.5	17.8	-1.08	1.290	128.2	0.822	3.257	273.0	551.7	0.581	5.933	0.59	0.250	49.5	325.7	-1.3	0.276
4-3720	4-5240	0.803	127.2	17.7	-1.06	1.290	128.9	0.826	3.268	271.7	552.0	0.570	5.966	0.59	0.252	48.3	326.6	-1.3	0.280
4-3720	4-5260	0.815	127.9	17.6	-1.05	1.290	129.5	0.830	3.279	270.4	552.2	0.558	6.001	0.60	0.255	47.1	327.5	-1.3	0.285
4-3720	4-5280	0.827	128.6	17.5	-1.03	1.291	130.2	0.834	3.291	269.1	552.4	0.546	6.036	0.60	0.258	46.0	328.4	-1.2	0.289
4-3720	4-5300	0.839	129.3	17.3	-1.01	1.291	130.9	0.838	3.303	267.7	552.6	0.534	6.071	0.60	0.260	44.8	329.3	-1.2	0.294
4-3720	4-5320	0.852	130.0	17.2	-1.00	1.292	131.6	0.843	3.314	266.4	552.8	0.521	6.107	0.61	0.263	43.7	330.3	-1.1	0.299
4-3730	4-4150	0.730	114.8	9.6	-6.80	1.423	118.4	1.04	219.024	304.5	492.2	0.790	---	5.79	0.653	158.7	349.5	1.6	0.622
4-3730	4-4170	0.698	114.4	11.0	-5.81	1.405	117.4	1.00	177.156	305.3	494.5	0.800	---	4.82	0.612	157.3	349.7	1.4	0.581
4-3730	4-4190	0.670	113.9	12.0	-5.11	1.390	116.5	0.96	624.056	306.0	496.8	0.808	---	4.13	0.575	155.9	349.9	1.2	0.544
4-3730	4-4210	0.646	113.4	12.8	-4.58	1.376	115.7	0.93	612.709	306.7	499.0	0.816	---	3.61	0.542	154.4	350.0	1.1	0.511
4-3730	4-4230	0.625	113.0	13.4	-4.17	1.365	115.0	0.909	9.041	307.3	501.1	0.824	---	3.21	0.511	152.9	350.1	1.0	0.480
4-3730	4-4250	0.607	112.6	13.9	-3.85	1.355	114.4	0.885	7.238	307.8	503.3	0.830	---	2.90	0.483	151.3	350.0	1.0	0.452
4-3730	4-4270	0.591	112.3	14.3	-3.58	1.346	113.8	0.865	6.172	308.4	505.3	0.835	---	2.64	0.457	149.6	349.9	0.9	0.426
4-3730	4-4290	0.578	111.9	14.7	-3.35	1.338	113.3	0.846	5.473	308.8	507.3	0.840	---	2.42	0.434	147.8	349.7	0.8	0.402
4-3730	4-4310	0.565	111.6	15.0	-3.16	1.331	112.9	0.830	4.981	309.2	509.2	0.845	---	2.24	0.412	146.0	349.4	0.8	0.381
4-3730	4-4330	0.555	111.4	15.3	-3.00	1.325	112.5	0.816	4.619	309.5	511.1	0.848	---	2.09	0.392	144.1	349.1	0.8	0.361
4-3730	4-4350	0.546	111.2	15.5	-2.86	1.320	112.2	0.804	4.343	309.8	512.9	0.851	---	1.96	0.374	142.2	348.6	0.7	0.342
4-3730	4-4370	0.538	111.0	15.8	-2.73	1.316	111.9	0.793	4.128	310.0	514.7	0.854	---	1.84	0.357	140.1	348.1	0.7	0.326
4-3730	4-4390	0.531	110.9	16.0	-2.62	1.311	111.7	0.784	3.955	310.2	516.4	0.856	---	1.74	0.341	138.1	347.4	0.6	0.310
4-3730	4-4410	0.526	110.8	16.2	-2.52	1.308	111.5	0.775	3.816	310.3	518.0	0.858	---	1.65	0.327	135.9	346.7	0.6	0.296
4-3730	4-4430	0.521	110.8	16.3	-2.43	1.305	111.3	0.768	3.702	310.4	519.6	0.859	---	1.57	0.314	133.7	345.9	0.5	0.283
4-3730	4-4450	0.517	110.8	16.5	-2.35	1.302	111.2	0.762	3.607	310.4	521.2	0.860	---	1.50	0.302	131.4	345.0	0.5	0.271
4-3730	4-4470	0.514	110.9	16.6	-2.27	1.300	111.2	0.756	3.528	310.3	522.6	0.860	---	1.44	0.292	129.0	344.1	0.4	0.261
4-3730	4-4490	0.512	111.0	16.8	-2.20	1.298	111.1	0.752	3.461	310.2	524.1	0.860	---	1.38	0.282	126.7	343.0	0.3	0.251
4-3730	4-4510	0.510	111.1	16.9	-2.14	1.296	111.1	0.748	3.405	310.1	525.4	0.860	---	1.33	0.273	124.2	341.9	0.3	0.242
4-3730	4-4530	0.509	111.3	17.0	-2.08	1.294	111.1	0.744	3.358	309.9	526.8	0.859	---	1.28	0.265	121.7	340.7	0.2	0.234
4-3730	4-4550	0.509	111.5	17.1	-2.03	1.293	111.2	0.741	3.318	309.7	528.1	0.858	---	1.24	0.257	119.2	339.5	0.1	0.228
4-3730	4-4570	0.509	111.8	17.2	-1.97	1.292	111.2	0.739	3.283	309.4	529.3	0.856	---	1.20	0.251	116.7	338.2	0.1	0.222
4-3730	4-4590	0.510	112.1	17.3	-1.93	1.291	111.4	0.737	3.255	309.1	530.5	0.855	---	1.16	0.245	114.1	336.9	0.0	0.216
4-3730	4-4610	0.511	112.4	17.4	-1.88	1.290	111.5	0.736	3.230	308.7	531.6	0.853	---	1.13	0.240	111.5	335.6	-0.1	0.212
4-3730	4-4630	0.513	112.8	17.4	-1.84	1.289	111.6	0.735	3.210	308.3	532.7	0.850	---	1.10	0.236	108.9	334.3	-0.2	0.208
4-3730	4-4650	0.515	113.2	17.5	-1.80	1.288	111.8	0.734	3.193	307.8	533.8	0.848	---	1.07	0.232	106.4	333.0	-0.2	0.205
4-3730	4-4670	0.517	113.6	17.6	-1.76	1.288	112.0	0.734	3.178	307.4	534.8	0.845	---	1.04	0.229	103.8	331.7	-0.3	0.202
4-3730	4-4690	0.520	114.0	17.6	-1.72	1.287	112.2	0.734	3.167	306.8	535.8	0.842	---	1.02	0.226	101.3	330.5	-0.4	0.201
4-3730	4-4710	0.524	114.5	17.6	-1.69	1.287	112.4	0.734	3.158	306.3	536.8	0.839	---	1.00	0.224	98.8	329.3	-0.5	0.199
4-3730	4-4730	0.527	115.0	17.7	-1.66	1.287	112.7	0.735	3.150	305.7	537.7	0.835	---	0.98	0.222	96.3	328.2	-0.5	0.198
4-3730	4-4750	0.531	115.5	17.7	-1.62	1.286	112.9	0.736	3.145	305.1	538.6	0.831	---	0.96	0.221	93.9	327.2	-0.6	0.198
4-3730	4-4770	0.536	116.0	17.7	-1.59	1.286	113.2	0.737	3.141	304.4	539.5	0.827	---	0.94	0.220	91.5	326.2	-0.7	0.198
4-3730	4-4790	0.540	116.5	17.7	-1.56	1.286	113.5	0.738	3.139	303.8	540.3	0.823	5.455	0.92	0.219	89.2	325.3	-0.7	0.199
4-3730	4-4810	0.545	117.1	17.7	-1.53	1.286	113.8	0.739	3.138	303.0	541.1	0.818	5.457	0.91	0.219	86.9	324.5	-0.8	0.199
4-3730	4-4830	0.551	117.7	17.7	-1.51	1.286	114.2	0.741	3.138	302.3	541.8	0.813	5.463	0.89	0.219	84.7	323.8	-0.8	0.201
4-3730	4-4850	0.556	118.3	17.7	-1.48	1.286	114.5	0.743	3.139	301.5	542.6	0.808	5.470	0.88	0.219	82.6	323.1	-0.9	0.202
4-3730	4-4870	0.562	118.9	17.7	-1.45	1.286	114.9	0.745	3.141	300.7	543.3	0.802	5.480	0.87	0.220	80.5	322.6	-0.9	0.204
4-3730	4-4890	0.568	119.5	17.7	-1.43	1.286	115.3	0.747	3.144	299.9	544.0	0.797	5.492	0.85	0.221	78.5	322.2	-1.0	0.206
4-3730	4-4910	0.575	120.1	17.7	-1.40	1.287	115.6	0.749	3.148	299.1	544.7	0.791	5.506	0.84	0.222	76.5	321.8	-1.0	0.208
4-3730	4-4930	0.582	120.7	17.6	-1.38	1.287	116.0	0.751	3.153	298.2	545.3	0.784	5.521	0.83	0.223	74.6	321.6	-1.1	0.210
4-3730	4-4950	0.589	121.4	17.6	-1.36	1.287	116.5	0.754	3.158	297.3	545.9	0.778	5.538	0.83	0.224	72.8	321.4	-1.1	0.213
4-3730	4-4970	0.596	122.0	17.6	-1.33	1.287	116.9	0.756	3.164	296.4	546.5	0.771	5.556	0.82	0.226	71.0	321.3	-1.1	0.216
4-3730	4-4990	0.603	122.7	17.5	-1.31	1.287	117.3	0.759	3.170	295.4	547.1	0.764	5.576	0.81	0.228	69.3	321.3	-1.1	0.219
4-3730	4-5010	0.611	123.4	17.4	-1.29	1.288	117.8	0.762	3.177	294.4	547.6	0.757	5.597	0.80	0.229	67.7	321.4	-1.1	0.222
4-3730	4-5030	0.619	124.1	17.4	-1.27	1.288	118.3	0.765	3.184	293.4	548.1	0.749	5.620	0.80	0.231	66.0	321.5	-1.2	0.225
4-3730	4-5050	0.628	124.7	17.3	-1.24	1.288	118.8	0.768	3.192	292.4	548.6	0.741	5.643	0.79	0.233	64.5	321.7	-1.2	0.228
4-3730	4-5070	0.636	125.4	17.2	-1.22	1.289	119.3	0.771	3.200	291.4	549.1	0.733	5.668	0.79	0.235	63.0	322.0	-1.2	0.232
4-3730	4-5090	0.645	126.1	17.2	-1.20	1.289	119.8	0.774	3.209	290.3	549.6	0.725	5.693	0.78	0.237	61.5	322.4	-1.2	0.235
4-3730	4-5110	0.654	126.8	17.1	-1.18	1.289	120.3	0.777	3.218	289.2	550.0	0.716	5.720	0.78	0.240	60.1	322.8	-1.2	0.239
4-3730	4-5130	0.663	127.5	17.0	-1.16	1.290	120.8	0.781	3.227	288.1	550.4	0.708	5.747	0.78	0.242	58.7	323.3	-1.2	0.243
4-3730	4-5150	0.673	128.2	16.9	-1.14	1.290	121.4	0.784	3.237	287.0	550.8	0.698	5.775	0.77	0.244	57.4	323.8	-1.2	0.247
4-3730	4-5170	0.683	128.9	16.8	-1.12	1.290	122.0	0.788	3.247	285.8	551.2	0.689	5.805	0.77	0.247	56.1	324.4	-1.2	0.250
4-3730	4-5190	0.693	129.6	16.7	-1.10	1.291	122.5	0.791	3.257	284.7	551.5	0.679	5.835	0.77	0.249	54.8	325.1	-1.1	0.254
4-3730	4-5210	0.703	130.4	16.6	-1.08	1.291	123.1	0.795	3.267	283.5	551.9	0.669	5.865	0.77	0.251	53.6	325.8	-1.1	0.258
4-3730	4-5230	0.713	131.1	16.5	-1.06	1.291	123.7	0.799	3.278	282.3	552.2	0.659	5.897	0.77	0.254	52.4	326.5	-1.1	0.262
4-3730	4-5250	0.724	131.8	16.3	-1.04	1.292	124.3	0.803	3.289	281.0	552.5	0.649	5.929	0.77	0.256	51.2	327.3	-1.1	0.267
4-3730	4-5270	0.735	132.5	16.2	-1.01	1.292	125.0	0.807	3.300	279.8	552.8	0.638	5.962	0.77	0.259	50.1	328.1	-1.1	0.271
4-3730	4-5290	0.746	133.2	16.1	-0.99	1.293	125.6	0.811	3.311	278.5	553.0	0.627	5.995	0.77	0.262	49.0	329.0	-1.0	0.275
4-3730	4-5310	0.758	134.0	15.9	-0.97	1.293	126.3	0.815	3.322	277.2	553.3	0.616	6.029	0.77	0.264	47.9	329.9	-1.0	0.279
4-3730	4-5330	0.769	134.7	15.8	-0.95	1.293	126.9	0.819	3.334	275.9	553.5	0.604	6.064	0.78	0.267	46.8	330.9	-1.0	0.284

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3740	4-4200	0.804	119.6	-27.1	-27.11	1.392	113.0	0.96625	.142	313.2	495.3	0.855	---	26.22	0.577	155.3	348.5	10.4	0.559
4-3740	4-4220	0.663	116.1	-11.4	-16.03	1.378	112.2	0.93413	.041	314.0	497.6	0.863	---	15.15	0.543	153.8	350.3	6.5	0.514
4-3740	4-4240	0.608	115.2	-3.5	-11.45	1.367	111.5	0.906	9.222	314.7	499.8	0.870	---	10.58	0.513	152.2	350.9	4.8	0.480
4-3740	4-4260	0.575	114.7	1.1	-8.98	1.357	110.8	0.881	7.362	315.4	502.0	0.875	---	8.13	0.485	150.6	351.1	3.8	0.451
4-3740	4-4280	0.552	114.3	4.1	-7.44	1.348	110.3	0.859	6.266	316.0	504.1	0.880	---	6.60	0.460	148.9	351.1	3.2	0.424
4-3740	4-4300	0.534	114.0	6.2	-6.39	1.340	109.8	0.841	5.549	316.5	506.2	0.885	---	5.56	0.436	147.2	351.0	2.8	0.401
4-3740	4-4320	0.520	113.7	7.8	-5.62	1.333	109.4	0.824	5.046	316.9	508.2	0.889	---	4.80	0.415	145.4	350.8	2.5	0.379
4-3740	4-4340	0.508	113.5	9.0	-5.04	1.328	109.0	0.809	4.676	317.3	510.1	0.892	---	4.23	0.395	143.5	350.4	2.3	0.359
4-3740	4-4360	0.498	113.3	10.0	-4.58	1.322	108.7	0.796	4.395	317.6	511.9	0.895	---	3.78	0.377	141.6	350.0	2.1	0.340
4-3740	4-4380	0.489	113.1	10.8	-4.21	1.318	108.4	0.785	4.175	317.9	513.7	0.897	---	3.43	0.361	139.6	349.5	1.9	0.323
4-3740	4-4400	0.482	113.0	11.5	-3.90	1.314	108.2	0.775	3.999	318.1	515.5	0.899	---	3.13	0.345	137.5	349.0	1.8	0.308
4-3740	4-4420	0.475	112.9	12.1	-3.64	1.310	108.0	0.766	3.857	318.3	517.2	0.901	---	2.89	0.331	135.4	348.3	1.7	0.294
4-3740	4-4440	0.470	112.8	12.6	-3.42	1.307	107.8	0.759	3.740	318.4	518.8	0.902	---	2.68	0.318	133.2	347.5	1.6	0.281
4-3740	4-4460	0.466	112.8	13.0	-3.23	1.305	107.7	0.752	3.644	318.4	520.4	0.903	---	2.50	0.307	130.9	346.7	1.5	0.269
4-3740	4-4480	0.463	112.9	13.4	-3.06	1.302	107.6	0.747	3.563	318.4	521.9	0.903	---	2.35	0.296	128.6	345.7	1.3	0.258
4-3740	4-4500	0.460	113.0	13.8	-2.92	1.300	107.6	0.742	3.495	318.4	523.3	0.903	---	2.21	0.286	126.3	344.7	1.3	0.248
4-3740	4-4520	0.458	113.2	14.1	-2.79	1.298	107.6	0.737	3.438	318.2	524.8	0.903	---	2.09	0.278	123.9	343.7	1.2	0.240
4-3740	4-4540	0.457	113.4	14.4	-2.67	1.297	107.6	0.734	3.390	318.1	526.1	0.902	---	1.99	0.270	121.5	342.5	1.1	0.232
4-3740	4-4560	0.456	113.6	14.6	-2.56	1.295	107.6	0.731	3.348	317.9	527.4	0.902	---	1.89	0.263	119.0	341.3	1.0	0.225
4-3740	4-4580	0.456	113.9	14.9	-2.46	1.294	107.7	0.728	3.314	317.6	528.7	0.901	---	1.81	0.256	116.6	340.1	0.9	0.218
4-3740	4-4600	0.456	114.2	15.1	-2.37	1.293	107.8	0.726	3.284	317.3	529.9	0.899	---	1.74	0.251	114.1	338.8	0.8	0.213
4-3740	4-4620	0.457	114.6	15.3	-2.29	1.292	107.9	0.725	3.259	317.0	531.1	0.898	---	1.67	0.246	111.6	337.5	0.7	0.208
4-3740	4-4640	0.458	115.0	15.4	-2.22	1.291	108.0	0.723	3.238	316.6	532.2	0.896	---	1.60	0.241	109.1	336.2	0.6	0.204
4-3740	4-4660	0.460	115.4	15.6	-2.15	1.291	108.2	0.722	3.220	316.2	533.3	0.894	---	1.55	0.238	106.6	334.9	0.5	0.201
4-3740	4-4680	0.462	115.9	15.7	-2.08	1.290	108.4	0.722	3.206	315.7	534.4	0.892	---	1.50	0.234	104.1	333.7	0.4	0.198
4-3740	4-4700	0.465	116.4	15.8	-2.02	1.290	108.6	0.722	3.194	315.2	535.4	0.889	---	1.45	0.232	101.7	332.4	0.3	0.196
4-3740	4-4720	0.467	116.9	15.9	-1.96	1.289	108.8	0.722	3.184	314.7	536.4	0.886	---	1.41	0.230	99.3	331.2	0.2	0.195
4-3740	4-4740	0.471	117.4	16.0	-1.91	1.289	109.0	0.722	3.176	314.1	537.3	0.883	---	1.37	0.228	96.9	330.1	0.1	0.193
4-3740	4-4760	0.474	118.0	16.1	-1.86	1.289	109.3	0.722	3.171	313.6	538.2	0.880	---	1.33	0.226	94.6	329.0	-0.0	0.193
4-3740	4-4780	0.478	118.6	16.2	-1.81	1.289	109.5	0.723	3.166	312.9	539.1	0.877	---	1.29	0.226	92.3	328.0	-0.1	0.193
4-3740	4-4800	0.482	119.2	16.2	-1.76	1.289	109.8	0.724	3.164	312.3	540.0	0.873	---	1.26	0.225	90.1	327.1	-0.2	0.193
4-3740	4-4820	0.486	119.8	16.3	-1.72	1.288	110.1	0.725	3.163	311.6	540.8	0.869	5.456	1.23	0.225	87.9	326.3	-0.3	0.193
4-3740	4-4840	0.491	120.5	16.3	-1.68	1.288	110.4	0.727	3.162	310.9	541.6	0.865	5.460	1.21	0.225	85.8	325.5	-0.3	0.194
4-3740	4-4860	0.496	121.1	16.3	-1.64	1.288	110.8	0.728	3.163	310.1	542.3	0.860	5.466	1.18	0.225	83.8	324.8	-0.4	0.196
4-3740	4-4880	0.501	121.8	16.3	-1.60	1.289	111.1	0.730	3.165	309.4	543.1	0.856	5.475	1.16	0.225	81.8	324.3	-0.5	0.197
4-3740	4-4900	0.507	122.5	16.3	-1.56	1.289	111.4	0.731	3.168	308.6	543.8	0.851	5.485	1.14	0.226	79.8	323.8	-0.5	0.199
4-3740	4-4920	0.513	123.2	16.3	-1.52	1.289	111.8	0.733	3.172	307.7	544.5	0.846	5.497	1.12	0.227	78.0	323.4	-0.6	0.201
4-3740	4-4940	0.519	123.9	16.3	-1.49	1.289	112.2	0.735	3.176	306.9	545.2	0.841	5.511	1.10	0.228	76.1	323.1	-0.6	0.203
4-3740	4-4960	0.525	124.6	16.3	-1.46	1.289	112.6	0.737	3.181	306.0	545.8	0.835	5.527	1.08	0.230	74.4	322.9	-0.7	0.205
4-3740	4-4980	0.532	125.3	16.2	-1.42	1.289	113.0	0.740	3.187	305.1	546.4	0.829	5.544	1.07	0.231	72.7	322.7	-0.7	0.208
4-3740	4-5000	0.538	126.1	16.2	-1.39	1.290	113.4	0.742	3.193	304.2	547.0	0.823	5.563	1.05	0.233	71.0	322.7	-0.8	0.211
4-3740	4-5020	0.546	126.8	16.1	-1.36	1.290	113.9	0.745	3.200	303.3	547.6	0.817	5.582	1.04	0.234	69.4	322.7	-0.8	0.213
4-3740	4-5040	0.553	127.5	16.1	-1.33	1.290	114.3	0.747	3.207	302.3	548.1	0.810	5.603	1.02	0.236	67.9	322.8	-0.8	0.216
4-3740	4-5060	0.560	128.3	16.0	-1.30	1.290	114.8	0.750	3.214	301.3	548.7	0.804	5.625	1.01	0.238	66.4	323.0	-0.8	0.219
4-3740	4-5080	0.568	129.0	15.9	-1.27	1.291	115.2	0.753	3.223	300.3	549.2	0.797	5.648	1.00	0.240	65.0	323.2	-0.9	0.223
4-3740	4-5100	0.576	129.8	15.8	-1.24	1.291	115.7	0.756	3.231	299.3	549.7	0.789	5.672	0.99	0.242	63.5	323.5	-0.9	0.226
4-3740	4-5120	0.584	130.5	15.7	-1.22	1.291	116.2	0.759	3.240	298.2	550.1	0.782	5.698	0.98	0.244	62.2	323.9	-0.9	0.229
4-3740	4-5140	0.593	131.3	15.6	-1.19	1.292	116.7	0.762	3.249	297.2	550.6	0.774	5.724	0.97	0.246	60.9	324.4	-0.9	0.233
4-3740	4-5160	0.602	132.1	15.5	-1.16	1.292	117.2	0.765	3.258	296.1	551.0	0.766	5.750	0.97	0.249	59.6	324.8	-0.9	0.236
4-3740	4-5180	0.611	132.8	15.4	-1.14	1.292	117.7	0.768	3.268	295.0	551.4	0.758	5.778	0.96	0.251	58.3	325.4	-0.9	0.240
4-3740	4-5200	0.620	133.6	15.3	-1.11	1.293	118.3	0.771	3.278	293.8	551.8	0.749	5.806	0.95	0.253	57.1	326.0	-0.9	0.243
4-3740	4-5220	0.629	134.4	15.2	-1.08	1.293	118.8	0.775	3.288	292.7	552.2	0.740	5.836	0.95	0.256	56.0	326.7	-0.9	0.247
4-3740	4-5240	0.639	135.1	15.1	-1.06	1.294	119.4	0.778	3.298	291.5	552.6	0.731	5.866	0.95	0.258	54.8	327.4	-0.9	0.251
4-3740	4-5260	0.649	135.9	14.9	-1.03	1.294	120.0	0.782	3.309	290.3	552.9	0.722	5.896	0.94	0.260	53.7	328.1	-0.8	0.255
4-3740	4-5280	0.659	136.7	14.8	-1.01	1.294	120.6	0.785	3.320	289.1	553.2	0.712	5.927	0.94	0.263	52.6	328.9	-0.8	0.259
4-3740	4-5300	0.670	137.4	14.7	-0.98	1.295	121.2	0.789	3.331	287.9	553.6	0.702	5.959	0.94	0.265	51.6	329.7	-0.8	0.263
4-3740	4-5320	0.680	138.2	14.5	-0.96	1.295	121.8	0.793	3.342	286.6	553.8	0.692	5.992	0.94	0.268	50.5	330.6	-0.8	0.267
4-3740	4-5340	0.691	139.0	14.3	-0.93	1.295	122.4	0.797	3.353	285.3	554.1	0.682	6.025	0.93	0.270	49.5	331.5	-0.8	0.271
4-3750	4-4150	0.638	126.3	28.9	4.45	1.446	111.8	1.097	-9.001	318.5	486.8	0.877	---	-5.30	0.696	158.7	352.1	-2.5	0.656
4-3750	4-4170	0.609	126.1	31.2	5.27	1.426	110.8	1.04619	.170	319.4	489.3	0.886	---	-6.11	0.652	157.4	352.4	-2.9	0.612
4-3750	4-4190	0.587	126.3	34.2	6.38	1.408	109.9	1.00250	.762	320.3	491.7	0.893	---	-7.21	0.612	156.0	352.6	-3.5	0.573
4-3750	4-4210	0.571	127.1	38.3	7.97	1.393	109.0	0.96424	.788	321.2	494.1	0.900	---	-8.78	0.576	154.6	352.7	-4.4	0.537
4-3750	4-4230	0.567	129.3	44.2	10.44	1.380	108.3	0.93013	.014	322.0	496.5	0.907	---	-11.24	0.543	153.1	352.7	-5.8	0.506
4-3750	4-4250	0.587	135.5	53.1	14.77	1.368	107.6	0.901	9.238	322.8	498.8	0.912	---	-15.55	0.513	151.5	352.3	-8.3	0.480
4-3750	4-4270	0.684	159.9	65.4	24.15	1.358	107.0	0.876	7.388	323.5	501.0	0.918	---	-24.91	0.486	149.9	350.9	-13.2	0.465
4-3750	4-4290	1.129	227.4	56.2	53.74	1.350	106.3	0.853	6.295	324.5	503.1	0.923	---	-54.49	0.460	148.2	342.8	-23.7	0.511
4-3750	4-4310	1.141	141.1	-60.7	-54.84	1.342	106.3	0.835	5.578	324.0	505.3	0.922	---	54.11	0.437	146.6	340.0	22.4	0.491
4-3750	4-4330	0.677	116.6	-35.2	-25.58	1.335	105.8	0.817	5.075	324.8	507.4	0.927	---	24.86	0.416	144.7	348.6	14.1	0.399
4-3750	4-4350	0.550	113.8	-19.8	-16.28	1.330	105.4	0.802	4.704	325.3	509.3	0.930	---	15.57	0.397	142.9	350.2	9.6	0.365
4-3750	4-4370	0.498	113.1	-10.9	-11.97	1.325	105.1	0.789	4.422	325.7	511.2	0.933	---	11.28	0.379	140.9	350.5	7.3	0.342
4-3750	4-4390	0.470	112.9	-5.2	-9.51	1.320	104.8	0.778	4.202	326.1	513.1	0.935	---	8.83	0.362	138.9	350.3	6.0	0.323
4-3750	4-4410	0.453	112.8	-1.3	-7.92	1.316	104.6	0.767	4.025	326.3	514.8	0.936	---	7.26	0.347	136.9	349.9	5.1	0.307
4-3750	4-4430	0.441	112.8	1.5	-6.82	1.313	104.4	0.759	3.883	326.5	516.6	0.938	---	6.17	0.334	134.8	349.3	4.4	0.292
4-3750	4-4450	0.432	112.8	3.7	-6.00	1.310	104.2	0.751	3.766	326.6	518.2	0.939	---	5.36	0.321	132.6	348.6	3.9	0.279
4-3750	4-4470	0.426	112.9	5.4	-5.37	1.307	104.1	0.744	3.669	326.7	519.8	0.939	---	4.75	0.310	130.4	347.9	3.6	0.267
4-3750	4-4490	0.421	113.0	6.8	-4.87	1.305	104.1	0.738	3.588	326.7	521.3	0.940	---	4.26	0.299	128.1	347.0	3.2	0.256
4-3750	4-4510	0.417	113.1	7.9	-4.46	1.302	104.0	0.733	3.519	326.7	522.8	0.940	---	3.87	0.290	125.8	346.0	3.0	0.246
4-3750	4-4530	0.414	113.3	8.9	-4.12	1.301	104.0	0.729	3.462	326.6	524.3	0.940	---	3.55	0.281	123.5	345.0	2.7	0.237
4-3750	4-4550	0.411	113.6	9.7	-3.84	1.299	104.0	0.725	3.413	326.5	525.6	0.939	---	3.27	0.273	121.1	343.9	2.5	0.229
4-3750	4-4570	0.410	113.9	10.4	-3.69	1.298	104.0	0.722	3.372	326.3	527.0	0.939	---	3.04	0.266	118.7	342.7	2.3	0.222

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3750	4-4590	0.409	114.2	11.0	-3.38	1.296	104.1	0.719	3.337	326.1	528.3	0.938	---	2.84	0.260	116.3	341.5	2.1	0.216
4-3750	4-4610	0.409	114.6	11.5	-3.19	1.295	104.2	0.717	3.307	325.8	529.5	0.937	---	2.67	0.255	113.9	340.3	1.9	0.210
4-3750	4-4630	0.409	115.0	12.0	-3.02	1.295	104.3	0.715	3.282	325.5	530.7	0.936	---	2.52	0.250	111.4	339.0	1.8	0.205
4-3750	4-4650	0.410	115.5	12.4	-2.88	1.294	104.4	0.713	3.260	325.1	531.8	0.934	---	2.39	0.246	109.0	337.7	1.6	0.201
4-3750	4-4670	0.411	116.0	12.8	-2.74	1.293	104.6	0.712	3.243	324.7	532.9	0.933	---	2.27	0.242	106.6	336.5	1.4	0.198
4-3750	4-4690	0.412	116.6	13.1	-2.62	1.293	104.8	0.712	3.228	324.3	534.0	0.931	---	2.16	0.239	104.2	335.2	1.3	0.195
4-3750	4-4710	0.414	117.1	13.4	-2.51	1.292	104.9	0.711	3.216	323.8	535.1	0.929	---	2.07	0.236	101.9	334.0	1.1	0.193
4-3750	4-4730	0.416	117.7	13.6	-2.41	1.292	105.1	0.711	3.206	323.3	536.1	0.927	---	1.98	0.234	99.6	332.8	1.0	0.191
4-3750	4-4750	0.419	118.4	13.8	-2.32	1.291	105.4	0.711	3.198	322.7	537.0	0.924	---	1.91	0.232	97.3	331.6	0.9	0.190
4-3750	4-4770	0.422	119.0	14.0	-2.23	1.291	105.6	0.711	3.192	322.2	538.0	0.922	---	1.84	0.231	95.0	330.6	0.7	0.189
4-3750	4-4790	0.425	119.7	14.2	-2.15	1.291	105.9	0.712	3.188	321.6	538.9	0.919	---	1.77	0.230	92.8	329.6	0.6	0.188
4-3750	4-4810	0.428	120.4	14.3	-2.08	1.291	106.1	0.712	3.185	320.9	539.7	0.916	---	1.71	0.230	90.7	328.6	0.5	0.188
4-3750	4-4830	0.432	121.2	14.5	-2.01	1.291	106.4	0.713	3.184	320.3	540.6	0.913	5.455	1.66	0.229	88.6	327.7	0.4	0.189
4-3750	4-4850	0.436	121.9	14.6	-1.94	1.291	106.7	0.714	3.184	319.6	541.4	0.909	5.458	1.61	0.229	86.6	327.0	0.3	0.189
4-3750	4-4870	0.440	122.7	14.6	-1.88	1.291	107.0	0.716	3.185	318.8	542.2	0.906	5.463	1.56	0.230	84.6	326.3	0.2	0.190
4-3750	4-4890	0.445	123.5	14.7	-1.82	1.291	107.3	0.717	3.186	318.1	542.9	0.902	5.471	1.52	0.230	82.7	325.7	0.1	0.192
4-3750	4-4910	0.450	124.2	14.8	-1.77	1.291	107.7	0.718	3.189	317.3	543.7	0.898	5.480	1.48	0.231	80.8	325.2	-0.0	0.193
4-3750	4-4930	0.455	125.0	14.8	-1.71	1.291	108.0	0.720	3.193	316.5	544.4	0.894	5.492	1.45	0.232	79.0	324.8	-0.1	0.195
4-3750	4-4950	0.460	125.9	14.8	-1.66	1.291	108.4	0.722	3.197	315.7	545.1	0.889	5.505	1.41	0.233	77.3	324.4	-0.2	0.197
4-3750	4-4970	0.466	126.7	14.8	-1.62	1.292	108.8	0.724	3.202	314.8	545.7	0.885	5.519	1.38	0.234	75.6	324.2	-0.2	0.199
4-3750	4-4990	0.472	127.5	14.8	-1.57	1.292	109.2	0.726	3.207	314.0	546.4	0.880	5.535	1.36	0.235	73.9	324.0	-0.3	0.201
4-3750	4-5010	0.478	128.3	14.8	-1.53	1.292	109.6	0.728	3.214	313.1	547.0	0.875	6.552	1.33	0.237	72.3	323.9	-0.3	0.204
4-3750	4-5030	0.484	129.2	14.7	-1.48	1.292	110.0	0.730	3.220	312.1	547.6	0.870	5.571	1.30	0.239	70.8	323.9	-0.4	0.206
4-3750	4-5050	0.491	130.0	14.7	-1.44	1.293	110.4	0.732	3.227	311.2	548.2	0.864	5.591	1.28	0.240	69.3	324.0	-0.4	0.209
4-3750	4-5070	0.497	130.9	14.6	-1.40	1.293	110.8	0.735	3.235	310.2	548.7	0.858	5.611	1.26	0.242	67.9	324.1	-0.5	0.212
4-3750	4-5090	0.504	131.7	14.6	-1.36	1.293	111.3	0.737	3.243	309.3	549.2	0.853	5.633	1.24	0.244	66.5	324.3	-0.5	0.215
4-3750	4-5110	0.512	132.6	14.5	-1.33	1.293	111.7	0.740	3.251	308.3	549.8	0.846	5.656	1.22	0.246	65.2	324.6	-0.5	0.218
4-3750	4-5130	0.519	133.4	14.4	-1.29	1.294	112.2	0.742	3.260	307.2	550.3	0.840	5.680	1.20	0.248	63.9	325.0	-0.5	0.221
4-3750	4-5150	0.527	134.3	14.3	-1.25	1.294	112.7	0.745	3.269	306.2	550.8	0.833	5.705	1.19	0.250	62.6	325.4	-0.6	0.224
4-3750	4-5170	0.535	135.1	14.2	-1.22	1.294	113.2	0.748	3.278	305.1	551.2	0.826	5.730	1.17	0.253	61.4	325.8	-0.6	0.228
4-3750	4-5190	0.543	136.0	14.1	-1.18	1.295	113.7	0.751	3.288	304.0	551.7	0.819	5.756	1.16	0.255	60.2	326.3	-0.6	0.231
4-3750	4-5210	0.552	136.8	14.0	-1.15	1.295	114.2	0.754	3.298	302.9	552.1	0.812	5.783	1.15	0.257	59.0	326.9	-0.6	0.234
4-3750	4-5230	0.560	137.6	13.8	-1.12	1.295	114.7	0.757	3.308	301.8	552.5	0.804	5.811	1.14	0.259	57.9	327.5	-0.6	0.238
4-3750	4-5250	0.569	138.5	13.7	-1.09	1.296	115.2	0.760	3.318	300.7	552.9	0.796	5.840	1.13	0.262	56.8	328.2	-0.6	0.241
4-3750	4-5270	0.578	139.3	13.5	-1.06	1.296	115.8	0.763	3.329	299.5	553.3	0.788	5.869	1.12	0.264	55.7	328.9	-0.6	0.245
4-3750	4-5290	0.588	140.2	13.4	-1.02	1.297	116.3	0.767	3.339	298.3	553.6	0.780	5.899	1.11	0.266	54.7	329.7	-0.6	0.249
4-3750	4-5310	0.597	141.0	13.2	-0.99	1.297	116.9	0.770	3.350	297.1	554.0	0.771	5.929	1.10	0.269	53.7	330.5	-0.6	0.252
4-3750	4-5330	0.607	141.8	13.1	-0.96	1.297	117.5	0.773	3.361	295.9	554.3	0.762	5.960	1.10	0.271	52.7	331.3	-0.5	0.256
4-3750	4-5350	0.617	142.7	12.9	-0.93	1.298	118.1	0.777	3.372	294.7	554.6	0.753	5.992	1.09	0.274	51.7	332.2	-0.5	0.260
4-3760	4-4120	0.647	128.6	23.5	2.14	1.497	109.8	1.231	-3.905	324.2	480.4	0.902	---	-2.94	0.794	160.5	352.6	-1.4	0.749
4-3760	4-4140	0.608	127.7	24.5	2.36	1.470	108.7	1.159	-5.743	325.3	483.1	0.911	---	-3.14	0.740	159.3	353.0	-1.6	0.695
4-3760	4-4160	0.575	126.7	25.6	2.60	1.446	107.6	1.097	-9.483	326.3	485.7	0.919	---	-3.37	0.692	158.0	353.3	-1.7	0.647
4-3760	4-4180	0.546	125.9	26.8	2.88	1.426	106.7	1.044	21.034	327.3	488.3	0.926	---	-3.63	0.648	156.7	353.5	-1.9	0.604
4-3760	4-4200	0.522	125.0	28.1	3.21	1.408	105.8	0.999	65.653	328.3	490.8	0.932	---	-3.94	0.609	155.3	353.8	-2.1	0.565
4-3760	4-4220	0.500	124.3	29.7	3.60	1.394	105.1	0.959	23.048	329.2	493.3	0.938	---	-4.32	0.573	153.9	353.9	-2.4	0.529
4-3760	4-4240	0.483	123.7	31.5	4.07	1.381	104.4	0.925	12.615	330.1	495.7	0.943	---	-4.77	0.541	152.4	354.0	-2.7	0.497
4-3760	4-4260	0.468	123.2	33.6	4.65	1.369	103.7	0.896	9.078	330.9	498.1	0.947	---	-5.34	0.511	150.9	354.0	-3.2	0.467
4-3760	4-4280	0.456	123.0	36.2	5.39	1.360	103.2	0.870	7.309	331.7	500.4	0.951	---	-6.06	0.484	149.3	353.9	-3.7	0.440
4-3760	4-4300	0.449	123.2	39.4	6.35	1.351	102.7	0.847	6.253	332.4	502.6	0.955	---	-7.00	0.459	147.6	353.8	-4.5	0.416
4-3760	4-4320	0.446	124.0	43.5	7.66	1.344	102.2	0.828	5.556	333.0	504.8	0.958	---	-8.30	0.436	145.8	353.6	-5.5	0.393
4-3760	4-4340	0.451	126.0	49.1	9.57	1.337	101.8	0.810	5.064	333.5	506.8	0.960	---	-10.19	0.415	144.0	353.2	-7.0	0.374
4-3760	4-4360	0.471	130.9	56.8	12.57	1.331	101.5	0.795	4.701	334.0	508.8	0.962	---	-13.17	0.396	142.2	352.6	-9.3	0.358
4-3760	4-4380	0.529	146.0	67.1	17.97	1.326	101.2	0.782	4.424	334.5	510.8	0.964	---	-18.55	0.379	140.2	351.5	-13.3	0.348
4-3760	4-4400	0.704	204.5	72.5	30.10	1.322	100.9	0.770	4.206	335.0	512.7	0.966	---	-30.67	0.363	138.3	348.5	-20.8	0.358
4-3760	4-4420	1.323	248.3	44.7	67.99	1.318	100.5	0.760	4.033	335.7	514.4	0.969	---	-68.55	0.348	136.2	335.7	-30.0	0.468
4-3760	4-4440	1.006	129.4	-65.9	-48.60	1.315	100.9	0.752	3.892	334.6	516.2	0.966	---	48.06	0.334	134.2	338.9	26.4	0.386
4-3760	4-4460	0.617	112.2	-41.8	-25.09	1.312	100.6	0.744	3.776	335.0	517.9	0.967	---	24.56	0.322	132.0	345.8	18.3	0.305
4-3760	4-4480	0.493	110.4	-26.7	-16.57	1.309	100.5	0.737	3.680	335.2	519.5	0.968	---	16.06	0.311	129.8	347.1	13.1	0.277
4-3760	4-4500	0.440	110.3	-17.0	-12.37	1.307	100.4	0.731	3.600	335.3	521.1	0.969	---	11.87	0.301	127.6	347.0	10.2	0.260
4-3760	4-4520	0.413	110.5	-10.5	-9.89	1.305	100.4	0.726	3.533	335.3	522.6	0.969	---	9.41	0.291	125.3	346.4	8.3	0.248
4-3760	4-4540	0.398	110.8	-5.8	-8.26	1.303	100.3	0.721	3.476	335.2	524.0	0.969	---	7.79	0.283	123.0	345.6	7.0	0.237
4-3760	4-4560	0.388	111.2	-2.4	-7.10	1.301	100.4	0.717	3.428	335.1	525.4	0.968	---	6.65	0.275	120.6	344.6	6.1	0.228
4-3760	4-4580	0.381	111.7	0.3	-6.24	1.300	100.4	0.714	3.387	335.0	526.7	0.968	---	5.81	0.269	118.3	343.5	5.4	0.221
4-3760	4-4600	0.377	112.1	2.4	-5.57	1.299	100.5	0.711	3.352	334.8	528.0	0.967	---	5.16	0.263	115.9	342.4	4.8	0.214
4-3760	4-4620	0.374	112.6	4.2	-5.04	1.298	100.5	0.709	3.323	334.5	529.3	0.967	---	4.64	0.257	113.5	341.2	4.3	0.208
4-3760	4-4640	0.372	113.2	5.6	-4.60	1.297	100.7	0.707	3.298	334.2	530.5	0.966	---	4.22	0.253	111.1	340.0	3.8	0.203
4-3760	4-4660	0.371	113.8	6.8	-4.24	1.296	100.8	0.706	3.277	333.8	531.6	0.965	---	3.87	0.249	108.8	338.8	3.5	0.199
4-3760	4-4680	0.371	114.4	7.8	-3.93	1.296	100.9	0.704	3.259	333.4	532.8	0.964	---	3.58	0.245	106.4	337.5	3.1	0.195
4-3760	4-4700	0.371	115.1	8.6	-3.66	1.295	101.1	0.703	3.244	333.0	533.8	0.962	---	3.33	0.242	104.1	336.3	2.8	0.192
4-3760	4-4720	0.372	115.8	9.3	-3.43	1.295	101.3	0.703	3.233	332.5	534.9	0.961	---	3.11	0.240	101.8	335.1	2.6	0.190
4-3760	4-4740	0.373	116.5	10.0	-3.23	1.294	101.5	0.702	3.223	332.0	535.9	0.959	---	2.93	0.238	99.5	333.9	2.3	0.188
4-3760	4-4760	0.374	117.3	10.5	-3.05	1.294	101.7	0.702	3.215	331.5	536.9	0.957	---	2.76	0.236	97.3	332.8	2.1	0.187
4-3760	4-4780	0.376	118.1	11.0	-2.89	1.294	101.9	0.702	3.210	330.9	537.8	0.955	---	2.62	0.235	95.1	331.7	1.8	0.186
4-3760	4-4800	0.379	119.0	11.4	-2.74	1.294	102.2	0.703	3.205	330.3	538.7	0.953	---	2.49	0.234	93.0	330.7	1.6	0.185
4-3760	4-4820	0.381	119.8	11.8	-2.61	1.293	102.4	0.703	3.203	329.7	539.6	0.951	---	2.38	0.233	90.9	329.8	1.5	0.185
4-3760	4-4840	0.384	120.7	12.1	-2.49	1.293	102.7	0.704	3.202	329.1	540.5	0.948	5.455	2.27	0.233	88.9	328.9	1.3	0.185
4-3760	4-4860	0.387	121.6	12.3	-2.38	1.293	103.0	0.705	3.201	328.4	541.3	0.946	5.457	2.18	0.233	87.0	328.1	1.1	0.186
4-3760	4-4880	0.391	122.5	12.6	-2.28	1.293	103.3	0.706	3.202	327.7	542.1	0.943	5.462	2.09	0.233	85.1	327.4	1.0	0.186
4-3760	4-4900	0.395	123.4	12.7	-2.19	1.294	103.6	0.707	3.204	326.9	542.8	0.940	5.469	2.02	0.234	83.2	326.8	0.8	0.188
4-3760	4-4920	0.399	124.4	12.9	-2.10	1.294	103.9	0.708	3.207	326.2	543.6	0.937	5.477	1.95	0.235	81.4	326.3	0.7	0.189

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3770	4-5270	0.444	142.1	11.2	-1.25	1.301	107.1	0.731	3.353	319.1	553.4	0.901	5.804	1.55	0.268	59.6	329.8	0.0	0.227
4-3770	4-5290	0.451	143.2	11.1	-1.20	1.301	107.6	0.734	3.363	318.0	553.8	0.895	5.831	1.52	0.270	58.6	330.4	0.0	0.230
4-3770	4-5310	0.459	144.3	10.9	-1.15	1.302	108.1	0.736	3.374	316.8	554.2	0.889	5.858	1.49	0.273	57.7	331.2	-0.0	0.233
4-3770	4-5330	0.467	145.4	10.7	-1.10	1.302	108.7	0.739	3.385	315.7	554.6	0.883	5.886	1.47	0.275	56.7	331.9	-0.0	0.237
4-3770	4-5350	0.475	146.5	10.6	-1.06	1.302	109.2	0.742	3.396	314.5	555.0	0.877	5.915	1.45	0.277	55.9	332.7	-0.0	0.240
4-3770	4-5370	0.483	147.6	10.4	-1.01	1.303	109.7	0.745	3.407	313.3	556.4	0.870	5.944	1.43	0.280	55.0	333.5	-0.0	0.243
4-3780	4-4100	0.617	129.8	21.5	1.18	1.559	102.7	1.416-2.308		338.3	473.5	0.961	---	-1.84	0.899	161.5	353.8	-1.0	0.847
4-3780	4-4120	0.572	128.1	22.2	1.26	1.522	101.5	1.309-3.126		339.7	476.4	0.967	---	-1.90	0.833	160.4	354.2	-1.0	0.782
4-3780	4-4140	0.534	126.4	23.0	1.34	1.491	100.5	1.220-4.413		341.0	479.3	0.972	---	-1.96	0.775	159.3	354.5	-1.0	0.724
4-3780	4-4160	0.501	124.6	23.9	1.42	1.465	99.5	1.145-6.712		342.2	482.1	0.976	---	-2.02	0.723	158.1	354.8	-1.1	0.672
4-3780	4-4180	0.473	122.8	24.7	1.51	1.442	98.6	1.08211.913		343.5	484.9	0.980	---	-2.09	0.676	156.8	355.1	-1.2	0.626
4-3780	4-4200	0.449	121.0	25.5	1.60	1.423	97.8	1.02934.393		344.6	487.7	0.984	---	-2.16	0.634	155.5	355.3	-1.2	0.584
4-3780	4-4220	0.429	119.2	26.4	1.70	1.407	97.1	0.98357.375		345.8	490.3	0.987	---	-2.24	0.595	154.1	355.4	-1.3	0.546
4-3780	4-4240	0.412	117.5	27.2	1.81	1.392	96.4	0.94317.504		346.8	492.9	0.989	---	-2.33	0.561	152.7	355.5	-1.4	0.511
4-3780	4-4260	0.397	115.9	28.1	1.93	1.380	95.8	0.91010.973		347.8	495.5	0.991	---	-2.43	0.529	151.1	355.5	-1.5	0.480
4-3780	4-4280	0.384	114.3	29.0	2.06	1.370	95.3	0.880	8.305	348.7	497.9	0.993	---	-2.54	0.501	149.6	355.5	-1.7	0.451
4-3780	4-4300	0.373	112.9	29.9	2.20	1.360	94.8	0.855	6.865	349.6	500.3	0.994	---	-2.66	0.474	148.0	355.4	-1.8	0.425
4-3780	4-4320	0.364	111.6	30.8	2.35	1.352	94.4	0.833	5.969	350.3	502.6	0.996	---	-2.80	0.450	146.3	355.2	-2.0	0.401
4-3780	4-4340	0.356	110.4	31.8	2.52	1.345	94.0	0.814	5.361	351.0	504.8	0.996	---	-2.95	0.428	144.5	355.0	-2.2	0.379
4-3780	4-4360	0.350	109.3	32.8	2.71	1.339	93.7	0.797	4.924	351.6	507.0	0.997	---	-3.12	0.408	142.7	354.6	-2.4	0.358
4-3780	4-4380	0.344	108.4	33.8	2.93	1.334	93.5	0.783	4.598	352.1	509.0	0.998	---	-3.31	0.390	140.8	354.3	-2.7	0.340
4-3780	4-4400	0.340	107.7	35.0	3.17	1.329	93.2	0.770	4.346	352.6	511.0	0.998	---	-3.54	0.373	138.9	353.8	-3.0	0.323
4-3780	4-4420	0.337	107.1	36.3	3.44	1.325	93.0	0.759	4.147	352.9	512.9	0.999	---	-3.80	0.358	136.9	353.2	-3.4	0.307
4-3780	4-4440	0.334	106.6	37.7	3.76	1.321	92.9	0.749	3.988	353.2	514.7	0.999	---	-4.10	0.344	134.8	352.6	-3.8	0.292
4-3780	4-4460	0.332	106.4	39.3	4.13	1.318	92.8	0.741	3.858	353.5	516.5	0.999	---	-4.45	0.331	132.7	351.9	-4.3	0.279
4-3780	4-4480	0.332	106.3	41.1	4.58	1.315	92.7	0.734	3.751	353.6	518.2	0.999	---	-4.88	0.319	130.5	351.1	-4.9	0.267
4-3780	4-4500	0.332	106.4	43.3	5.12	1.313	92.6	0.727	3.662	353.7	519.8	0.999	---	-5.40	0.308	128.3	350.3	-5.6	0.257
4-3780	4-4520	0.335	106.8	45.9	5.78	1.311	92.6	0.721	3.587	353.8	521.3	1.000	---	-6.05	0.299	126.1	349.3	-6.5	0.247
4-3780	4-4540	0.339	107.5	49.1	6.62	1.309	92.6	0.716	3.525	353.8	522.8	1.000	---	-6.87	0.290	123.8	348.3	-7.6	0.239
4-3780	4-4560	0.347	108.7	53.1	7.73	1.307	92.6	0.712	3.472	353.7	524.3	0.999	---	-7.96	0.282	121.5	347.3	-9.0	0.231
4-3780	4-4580	0.360	110.7	58.2	9.26	1.306	92.7	0.708	3.427	353.6	525.7	0.999	---	-9.47	0.275	119.2	346.1	-10.8	0.226
4-3780	4-4600	0.384	114.5	64.8	11.49	1.304	92.7	0.705	3.389	353.4	527.0	0.999	---	-11.69	0.269	116.9	344.9	-13.4	0.223
4-3780	4-4620	0.428	124.3	73.7	15.04	1.303	92.8	0.702	3.357	353.2	528.3	0.999	---	-15.22	0.263	114.6	343.4	-17.2	0.223
4-3780	4-4640	0.525	179.8	82.8	21.54	1.302	92.9	0.700	3.330	353.0	529.5	0.999	---	-21.70	0.258	112.2	341.6	-23.2	0.234
4-3780	4-4660	0.774	258.6	69.5	36.39	1.301	92.9	0.698	3.307	352.9	530.7	0.999	---	-36.53	0.254	109.9	338.2	-31.8	0.280
4-3780	4-4680	1.485	270.7	35.8	79.32	1.301	92.8	0.696	3.288	353.2	531.9	0.999	---	-79.44	0.250	107.6	330.6	-33.2	0.448
4-3780	4-4700	0.937	101.8	-72.2	-45.78	1.300	93.6	0.695	3.272	351.1	532.9	0.997	---	45.67	0.247	105.4	331.8	32.0	0.310
4-3780	4-4720	0.583	102.2	-48.8	-25.15	1.300	93.7	0.694	3.259	350.9	534.0	0.997	---	25.06	0.245	103.2	334.5	24.5	0.232
4-3780	4-4740	0.454	103.8	-33.8	-16.94	1.299	93.9	0.693	3.248	350.6	535.0	0.996	---	16.86	0.243	101.0	334.7	18.2	0.207
4-3780	4-4760	0.397	105.3	-23.5	-12.71	1.299	94.1	0.693	3.240	350.1	536.0	0.996	---	12.65	0.241	98.8	334.1	14.1	0.196
4-3780	4-4780	0.368	106.8	-16.1	-10.15	1.299	94.3	0.692	3.233	349.6	537.0	0.995	---	10.11	0.240	96.7	333.4	11.3	0.190
4-3780	4-4800	0.351	108.1	-10.6	-8.44	1.299	94.5	0.692	3.229	349.0	537.9	0.995	---	8.41	0.239	94.6	332.5	9.3	0.187
4-3780	4-4820	0.341	109.5	-6.5	-7.21	1.299	94.7	0.692	3.225	348.4	538.8	0.994	---	7.21	0.238	92.6	331.7	7.9	0.185
4-3780	4-4840	0.335	110.8	-3.3	-6.30	1.298	95.0	0.692	3.224	347.8	539.7	0.993	---	6.31	0.238	90.6	330.8	6.7	0.183
4-3780	4-4860	0.331	112.2	-0.7	-5.58	1.298	95.3	0.692	3.223	347.2	540.6	0.992	5.455	5.61	0.238	88.7	330.1	5.8	0.183
4-3780	4-4880	0.329	113.5	1.4	-5.01	1.298	95.5	0.693	3.224	346.5	541.4	0.991	5.457	5.05	0.238	86.9	329.4	5.0	0.183
4-3780	4-4900	0.328	114.9	3.1	-4.54	1.299	95.8	0.693	3.225	345.8	542.2	0.989	5.461	4.60	0.238	85.1	328.7	4.4	0.183
4-3780	4-4920	0.328	116.3	4.5	-4.14	1.299	96.1	0.694	3.228	345.0	543.0	0.988	5.468	4.22	0.239	83.3	328.2	3.8	0.184
4-3780	4-4940	0.329	117.7	5.6	-3.81	1.299	96.4	0.695	3.231	344.3	543.7	0.987	5.476	3.91	0.240	81.7	327.7	3.4	0.185
4-3780	4-4960	0.330	119.1	6.6	-3.52	1.299	96.8	0.696	3.236	343.5	544.4	0.985	5.486	3.64	0.241	80.0	327.3	3.0	0.186
4-3780	4-4980	0.331	120.5	7.4	-3.27	1.299	97.1	0.697	3.240	342.7	545.1	0.983	5.498	3.40	0.242	78.5	327.0	2.6	0.187
4-3780	4-5000	0.333	121.9	8.1	-3.05	1.299	97.4	0.698	3.246	341.9	545.8	0.982	5.510	3.20	0.243	77.0	326.8	2.3	0.189
4-3780	4-5020	0.335	123.3	8.6	-2.85	1.299	97.8	0.699	3.252	341.0	546.5	0.980	5.525	3.02	0.245	75.5	326.6	2.1	0.191
4-3780	4-5040	0.338	124.8	9.1	-2.68	1.300	98.2	0.700	3.259	340.1	547.1	0.977	5.540	2.86	0.246	74.1	326.5	1.8	0.192
4-3780	4-5060	0.341	126.2	9.5	-2.52	1.300	98.5	0.701	3.266	339.3	547.8	0.975	5.556	2.72	0.248	72.7	326.5	1.6	0.194
4-3780	4-5080	0.344	127.6	9.8	-2.37	1.300	98.9	0.703	3.273	338.3	548.4	0.973	5.574	2.60	0.250	71.4	326.6	1.4	0.197
4-3780	4-5100	0.348	129.1	10.0	-2.24	1.301	99.3	0.704	3.281	337.4	549.0	0.970	5.592	2.48	0.252	70.1	326.7	1.3	0.199
4-3780	4-5120	0.352	130.5	10.2	-2.12	1.301	99.7	0.706	3.290	336.5	549.6	0.968	5.612	2.38	0.254	68.9	326.9	1.1	0.201
4-3780	4-5140	0.356	131.9	10.4	-2.01	1.301	100.1	0.708	3.298	335.5	550.1	0.965	5.632	2.29	0.256	67.7	327.1	1.0	0.204
4-3780	4-5160	0.360	133.3	10.4	-1.91	1.301	100.5	0.709	3.307	334.5	550.7	0.962	5.653	2.20	0.258	66.6	327.5	0.9	0.206
4-3780	4-5180	0.365	134.8	10.5	-1.81	1.302	101.0	0.711	3.317	333.5	551.2	0.958	5.675	2.13	0.260	65.5	327.8	0.8	0.209
4-3780	4-5200	0.370	136.2	10.5	-1.72	1.302	101.4	0.713	3.326	332.5	551.7	0.955	5.698	2.06	0.262	64.4	328.3	0.7	0.211
4-3780	4-5220	0.375	137.5	10.5	-1.63	1.302	101.8	0.715	3.336	331.5	552.2	0.951	5.721	1.99	0.264	63.4	328.7	0.6	0.214
4-3780	4-5240	0.380	138.9	10.4	-1.56	1.303	102.3	0.717	3.346	330.5	552.7	0.948	5.745	1.93	0.266	62.4	329.3	0.5	0.217
4-3780	4-5260	0.386	140.3	10.4	-1.48	1.303	102.7	0.719	3.356	329.4	553.2	0.944	5.769	1.88	0.268	61.4	329.8	0.5	0.220
4-3780	4-5280	0.392	141.6	10.3	-1.41	1.304	103.2	0.721	3.367	328.3	553.6	0.939	5.795	1.83	0.271	60.4	330.5	0.4	0.222
4-3780	4-5300	0.398	143.0	10.1	-1.34	1.304	103.7	0.723	3.378	327.2	554.1	0.935	5.820	1.78	0.273	59.5	331.1	0.4	0.225
4-3780	4-5320	0.404	144.3	10.0	-1.28	1.304	104.2	0.725	3.388	326.1	554.5	0.930	5.847	1.74	0.275	58.6	331.8	0.3	0.228
4-3780	4-5340	0.411	145.6	9.8	-1.22	1.305	104.7	0.728	3.399	325.0	554.9	0.926	5.873	1.70	0.278	57.7	332.6	0.3	0.231
4-3780	4-5360	0.418	146.9	9.6	-1.16	1.305	105.2	0.730	3.411	323.8	555.3	0.920	5.901	1.66	0.280	56.9	333.4	0.3	0.234
4-3780	4-5380	0.425	148.1	9.4	-1.10	1.305	105.7	0.733	3.422	322.7	555.7	0.915	6.929	1.63	0.282	56.1	334.2	0.3	0.237
4-3790	4-4090	0.616	128.3	21.4	1.00	1.594	98.5	1.528-1.857		345.9	470.5	0.981	---	-1.58	0.955	162.0	354.2	-0.8	0.901
4-3790	4-4110	0.568	126.2	22.2	1.05	1.551	97.4	1.399-2.470		347.4	473.5	0.985	---	-1.61	0.883	161.0	354.6	-0.8	0.829
4-3790	4-4130	0.528	124.0	23.0	1.11	1.516	96.3	1.292-3.382		348.8	476.5	0.988	---	-1.65	0.818	159.9	354.9	-0.9	0.765
4-3790	4-4150	0.494	121.7	23.8	1.16	1.486	95.4	1.204-4.861		350.2	479.5	0.991	---	-1.68	0.761	158.7	355.2	-0.9	0.709
4-3790	4-4170	0.466	119.3	24.6	1.23	1.460	94.5	1.130-7.639		351.6	482.4	0.993	---	-1.72	0.710	157.5	355.4	-1.0	0.658
4-3790	4-4190	0.442	117.0	25.4	1.29	1.439	93.7	1.06814.660		352.9	485.3	0.995	---	-1.76	0.664	156.3	355.6	-1.0	0.613
4-3790	4-4210	0.422	114.8	26.1	1.36	1.420	93.0	1.01565.242		354.1	488.1	0.996	---	-1.81	0.623	154.9	355.8	-1.1	0.572
4-3790	4-4230	0.406	112.6	26.8	1.43	1.404	92.3	0.97133.897		355.3	490.8	0.997	---	-1.86	0.585	153.5	355.9	-1.1	0.535
4-3790	4-4250	0.391	110.4	27.5	1.50	1.391	91.7	0.93214.758		356.4	493.5	0.998	---	-1.91	0.551	152.1	355.9	-1.2	0.501

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3790	4-4270	0.379	108.5	28.1	1.58	1.379	91.2	0.900	9.948	357.5	496.1	0.999	---	-1.97	0.520	150.6	355.9	-1.3	0.470
4-3790	4-4290	0.369	106.6	28.8	1.66	1.369	90.7	0.871	7.769	358.4	498.6	0.999	---	-2.03	0.492	149.0	355.8	-1.4	0.442
4-3790	4-4310	0.361	104.9	29.4	1.75	1.360	90.3	0.847	6.534	359.3	501.0	0.999	---	-2.10	0.466	147.3	355.6	-1.5	0.416
4-3790	4-4330	0.354	103.3	30.0	1.84	1.352	90.0	0.826	5.744	0.1	143.3	---	---	-2.17	0.443	145.6	355.4	-1.6	0.393
4-3790	4-4350	0.348	101.9	30.6	1.94	1.345	89.7	0.808	5.198	0.8	145.5	---	---	-2.26	0.421	143.8	355.1	-1.8	0.371
4-3790	4-4370	0.342	100.7	31.2	2.05	1.339	89.4	0.792	4.801	1.4	147.7	---	---	-2.35	0.402	142.0	354.8	-1.9	0.351
4-3790	4-4390	0.338	99.6	31.8	2.17	1.334	89.2	0.778	4.502	1.9	149.7	---	---	-2.45	0.384	140.1	354.3	-2.1	0.333
4-3790	4-4410	0.334	98.7	32.4	2.30	1.330	89.0	0.766	4.269	2.3	151.7	---	---	-2.56	0.367	138.1	353.8	-2.3	0.316
4-3790	4-4430	0.331	98.0	33.1	2.44	1.326	88.8	0.756	4.085	2.7	153.6	---	---	-2.68	0.352	136.1	353.2	-2.5	0.301
4-3790	4-4450	0.328	97.4	33.8	2.59	1.322	88.7	0.746	3.937	3.0	155.4	---	---	-2.81	0.339	134.0	352.6	-2.8	0.287
4-3790	4-4470	0.326	97.0	34.5	2.76	1.319	88.6	0.738	3.815	3.2	157.1	---	---	-2.96	0.326	131.9	351.8	-3.1	0.274
4-3790	4-4490	0.324	96.7	35.4	2.95	1.316	88.6	0.731	3.715	3.3	158.8	---	---	-3.14	0.315	129.7	351.0	-3.4	0.262
4-3790	4-4510	0.323	96.5	36.3	3.17	1.314	88.6	0.725	3.632	3.4	160.4	---	---	-3.33	0.304	127.5	350.1	-3.7	0.252
4-3790	4-4530	0.322	96.5	37.3	3.41	1.312	88.6	0.720	3.562	3.4	161.9	---	---	-3.55	0.295	125.3	349.2	-4.1	0.242
4-3790	4-4550	0.321	96.6	38.5	3.68	1.310	88.6	0.715	3.503	3.4	163.4	---	---	-3.81	0.287	123.0	348.2	-4.6	0.233
4-3790	4-4570	0.321	96.9	39.8	4.00	1.309	88.6	0.711	3.454	3.3	164.8	---	---	-4.11	0.279	120.7	347.1	-5.1	0.226
4-3790	4-4590	0.322	97.3	41.4	4.38	1.307	88.7	0.707	3.412	3.1	166.2	---	---	-4.47	0.273	118.4	346.0	-5.7	0.219
4-3790	4-4610	0.323	97.8	43.1	4.82	1.306	88.8	0.704	3.376	2.9	167.5	---	---	-4.89	0.267	116.0	344.8	-6.3	0.213
4-3790	4-4630	0.325	98.5	45.3	5.36	1.305	88.9	0.702	3.346	2.7	168.7	---	---	-5.41	0.261	113.7	343.6	-7.1	0.207
4-3790	4-4650	0.328	99.4	47.8	6.02	1.304	89.0	0.699	3.321	2.4	170.0	---	---	-6.06	0.257	111.4	342.4	-8.1	0.203
4-3790	4-4670	0.334	100.5	51.0	6.86	1.303	89.2	0.697	3.300	2.0	171.1	---	---	-6.89	0.253	109.1	341.2	-9.3	0.199
4-3790	4-4690	0.343	102.0	54.9	7.97	1.303	89.3	0.696	3.282	1.7	172.2	---	---	-7.98	0.249	106.8	340.0	-10.7	0.197
4-3790	4-4710	0.357	104.0	60.0	9.49	1.302	89.5	0.694	3.268	1.3	173.3	---	---	-9.48	0.247	104.6	338.9	-12.7	0.196
4-3790	4-4730	0.381	107.3	66.7	11.71	1.302	89.7	0.693	3.256	0.8	174.4	---	---	-11.68	0.244	102.3	337.7	-15.4	0.197
4-3790	4-4750	0.427	114.9	75.8	15.24	1.301	89.9	0.692	3.246	0.4	175.4	---	---	-15.19	0.242	100.2	336.6	-19.3	0.202
4-3790	4-4770	0.524	183.4	86.0	21.66	1.301	90.0	0.692	3.239	359.9	536.4	0.999	---	-21.60	0.241	98.0	335.5	-25.1	0.217
4-3790	4-4790	0.771	270.0	70.3	36.27	1.301	90.2	0.691	3.234	359.5	537.3	0.999	---	-36.19	0.240	95.9	334.2	-33.2	0.267
4-3790	4-4810	1.473	279.6	37.0	78.39	1.301	90.2	0.691	3.230	359.6	538.3	0.999	---	-78.30	0.239	93.9	332.0	-33.7	0.437
4-3790	4-4830	0.945	86.5	-72.6	-46.27	1.301	91.1	0.691	3.227	357.3	539.1	0.999	---	46.39	0.238	92.0	329.6	32.7	0.307
4-3790	4-4850	0.581	98.4	-49.4	-25.20	1.301	91.3	0.691	3.226	356.9	540.0	0.999	---	25.34	0.238	90.1	330.0	25.2	0.227
4-3790	4-4870	0.449	102.0	-34.4	-16.85	1.301	91.5	0.691	3.227	356.3	540.8	0.998	5.455	17.00	0.238	88.2	329.7	18.6	0.202
4-3790	4-4890	0.391	104.5	-23.9	-12.57	1.301	91.8	0.691	3.228	355.7	541.6	0.998	5.458	12.73	0.239	86.4	329.2	14.2	0.193
4-3790	4-4910	0.360	106.6	-16.4	-9.98	1.301	92.0	0.691	3.230	355.0	542.4	0.998	5.463	10.16	0.239	84.7	328.8	11.3	0.189
4-3790	4-4930	0.343	108.4	-10.9	-8.25	1.301	92.3	0.692	3.233	354.3	543.2	0.997	5.470	8.45	0.240	83.0	328.3	9.2	0.187
4-3790	4-4950	0.333	110.2	-6.7	-7.02	1.301	92.7	0.692	3.237	353.5	543.9	0.997	5.478	7.24	0.241	81.3	327.9	7.6	0.187
4-3790	4-4970	0.326	112.0	-3.4	-6.09	1.301	93.0	0.693	3.242	352.7	544.6	0.996	5.488	6.33	0.242	79.8	327.6	6.4	0.187
4-3790	4-4990	0.322	113.7	-0.8	-5.37	1.302	93.3	0.694	3.247	351.9	545.3	0.995	6.500	5.63	0.243	78.3	327.3	5.5	0.188
4-3790	4-5010	0.320	115.4	1.2	-4.80	1.302	93.6	0.694	3.253	351.1	546.0	0.994	5.512	5.07	0.245	76.8	327.1	4.7	0.189
4-3790	4-5030	0.319	117.1	2.9	-4.32	1.302	94.0	0.695	3.260	350.2	546.7	0.993	5.526	4.61	0.246	75.4	327.0	4.1	0.190
4-3790	4-5060	0.319	118.8	4.3	-3.93	1.302	94.4	0.696	3.267	349.4	547.3	0.992	5.542	4.23	0.248	74.0	327.0	3.6	0.192
4-3790	4-5070	0.319	120.5	5.4	-3.59	1.302	94.7	0.697	3.274	348.5	547.9	0.991	5.558	3.91	0.250	72.7	327.0	3.2	0.194
4-3790	4-5090	0.320	122.2	6.3	-3.30	1.303	95.1	0.699	3.282	347.6	548.5	0.990	5.575	3.64	0.252	71.4	327.1	2.8	0.196
4-3790	4-5110	0.321	123.9	7.1	-3.05	1.303	95.5	0.700	3.291	346.7	549.1	0.988	5.593	3.41	0.254	70.2	327.2	2.5	0.198
4-3790	4-5130	0.323	125.6	7.7	-2.83	1.303	95.9	0.701	3.299	345.7	549.7	0.986	5.612	3.20	0.255	69.0	327.4	2.2	0.200
4-3790	4-5150	0.325	127.3	8.2	-2.63	1.304	96.3	0.702	3.308	344.8	550.3	0.985	5.632	3.02	0.258	67.9	327.7	1.9	0.202
4-3790	4-5170	0.328	129.0	8.6	-2.45	1.304	96.7	0.704	3.318	343.8	550.8	0.983	5.653	2.86	0.260	66.8	328.0	1.7	0.204
4-3790	4-5190	0.330	130.7	8.9	-2.29	1.304	97.1	0.705	3.327	342.8	551.4	0.981	5.674	2.72	0.262	65.7	328.4	1.5	0.207
4-3790	4-5210	0.334	132.4	9.1	-2.15	1.305	97.5	0.707	3.337	341.8	551.9	0.978	5.696	2.60	0.264	64.7	328.9	1.4	0.209
4-3790	4-5230	0.337	134.1	9.2	-2.01	1.305	98.0	0.708	3.347	340.8	552.4	0.976	5.718	2.48	0.266	63.7	329.3	1.2	0.212
4-3790	4-5250	0.341	135.7	9.3	-1.89	1.305	98.4	0.710	3.358	339.7	552.9	0.973	5.742	2.38	0.268	62.8	329.9	1.1	0.214
4-3790	4-5270	0.345	137.4	9.4	-1.78	1.306	98.9	0.712	3.368	338.7	553.4	0.971	5.765	2.29	0.271	61.8	330.5	1.0	0.217
4-3790	4-5290	0.349	139.0	9.4	-1.68	1.306	99.3	0.714	3.379	337.6	553.8	0.968	5.790	2.20	0.273	60.9	331.1	0.9	0.219
4-3790	4-5310	0.354	140.6	9.3	-1.58	1.306	99.8	0.715	3.390	336.5	554.3	0.965	6.815	2.12	0.275	60.1	331.8	0.8	0.222
4-3790	4-5330	0.359	142.2	9.2	-1.49	1.307	100.2	0.717	3.401	335.4	554.7	0.961	5.840	2.05	0.277	59.2	332.5	0.8	0.225
4-3790	4-5350	0.364	143.8	9.1	-1.40	1.307	100.7	0.719	3.412	334.3	555.2	0.958	5.866	1.99	0.280	58.4	333.2	0.7	0.228
4-3790	4-5370	0.369	145.3	9.0	-1.32	1.308	101.2	0.721	3.423	333.2	555.6	0.954	5.893	1.93	0.282	57.6	334.0	0.7	0.230
4-3790	4-5390	0.375	146.9	8.8	-1.25	1.308	101.7	0.723	3.435	332.0	556.0	0.950	5.920	1.87	0.284	56.8	334.8	0.6	0.233
4-3800	4-4080	0.632	125.4	21.8	0.88	1.633	93.8	1.653	-1.520	354.0	467.8	0.993	---	-1.38	1.016	162.6	354.5	-0.7	0.960
4-3800	4-4100	0.581	122.9	22.6	0.92	1.583	92.7	1.497	-2.002	355.5	471.0	0.994	---	-1.40	0.935	161.6	354.8	-0.7	0.880
4-3800	4-4120	0.539	120.1	23.4	0.97	1.543	91.7	1.370	-2.690	357.1	474.1	0.996	---	-1.42	0.863	160.6	355.1	-0.8	0.810
4-3800	4-4140	0.505	117.4	24.1	1.01	1.508	90.8	1.266	-3.742	358.6	477.2	0.996	---	-1.44	0.800	159.5	355.4	-0.8	0.747
4-3800	4-4160	0.477	114.6	24.9	1.06	1.479	89.9	1.180	-5.521	0.1	120.3	---	---	-1.46	0.744	158.3	355.6	-0.8	0.692
4-3800	4-4180	0.453	111.8	25.5	1.10	1.455	89.2	1.109	-9.135	1.6	123.3	---	---	-1.49	0.694	157.1	355.8	-0.9	0.643
4-3800	4-4200	0.434	109.1	26.1	1.15	1.434	88.5	1.049	20.236	3.0	126.2	---	---	-1.51	0.649	155.8	355.9	-0.9	0.599
4-3800	4-4220	0.418	106.6	26.7	1.20	1.417	87.9	0.999	66.523	4.3	129.1	---	---	-1.54	0.609	154.5	356.0	-0.9	0.559
4-3800	4-4240	0.405	104.1	27.2	1.25	1.401	87.3	0.956	22.670	5.5	131.9	---	---	-1.57	0.572	153.1	356.1	-1.0	0.522
4-3800	4-4260	0.395	101.9	27.6	1.31	1.388	86.8	0.920	12.388	6.7	134.6	---	---	-1.60	0.539	151.6	356.0	-1.1	0.489
4-3800	4-4280	0.386	99.8	28.0	1.36	1.377	86.4	0.889	8.922	7.7	137.2	---	---	-1.64	0.509	150.1	355.9	-1.1	0.460
4-3800	4-4300	0.378	97.9	28.4	1.42	1.367	86.0	0.862	7.192	8.7	139.7	---	---	-1.68	0.481	148.5	355.8	-1.2	0.432
4-3800	4-4320	0.372	96.2	28.7	1.48	1.358	85.6	0.839	6.162	9.6	142.2	---	---	-1.72	0.456	146.8	355.6	-1.3	0.407
4-3800	4-4340	0.367	94.7	29.1	1.55	1.351	85.3	0.820	5.482	10.4	144.5	---	---	-1.76	0.433	145.0	355.3	-1.4	0.384
4-3800	4-4360	0.362	93.3	29.4	1.62	1.345	85.1	0.803	5.004	11.0	146.7	---	---	-1.81	0.412	143.2	354.9	-1.5	0.363
4-3800	4-4380	0.358	92.2	29.7	1.69	1.339	84.9	0.788	4.651	11.6	148.8	---	---	-1.86	0.393	141.4	354.5	-1.6	0.344
4-3800	4-4400	0.355	91.2	30.0	1.76	1.334	84.7	0.775	4.382	12.1	150.8	---	---	-1.92	0.376	139.4	354.0	-1.8	0.326
4-3800	4-4420	0.352	90.4	30.4	1.84	1.330	84.6	0.764	4.172	12.6	152.8	---	---	-1.98	0.360	137.4	353.4	-1.9	0.310
4-3800	4-4440	0.350	89.7	30.7	1.93	1.326	84.5	0.754	4.004	12.9	154.7	---	---	-2.04	0.345	135.4	352.8	-2.1	0.295
4-3800	4-4460	0.347	89.2	31.1	2.02	1.323	84.4	0.745	3.869	13.1	156.4	---	---	-2.12	0.332	133.3	352.1	-2.2	0.282
4-3800	4-4480	0.345	88.8	31.5	2.12	1.320	84.4	0.738	3.757	13.3	158.1	---	---	-2.20	0.320	131.1	351.3	-2.4	0.269
4-3800	4-4500	0.343	88.6	32.0	2.22	1.317	84.3	0.731	3.665	13.4	159.8	---	---	-2.28	0.309	128.9	350.4	-2.6	0.258
4-3800	4-4520	0.341	88.5	32.4	2.34	1.315	84.3	0.726	3.589	13.5	161.3	---	---	-2.38	0.299	126.6	349.5	-2.9	0.248

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3800	4-4540	0.340	88.5	32.9	2.46	1.313	84.4	0.721	3.525	13.4	162.8	---	---	-2.48	0.290	124.3	348.5	-3.1	0.238
4-3800	4-4560	0.338	88.6	33.5	2.60	1.311	84.4	0.716	3.471	13.4	164.2	---	---	-2.60	0.282	122.0	347.5	-3.4	0.230
4-3800	4-4580	0.336	88.8	34.1	2.74	1.310	84.5	0.712	3.425	13.2	165.6	---	---	-2.73	0.275	119.7	346.4	-3.7	0.222
4-3800	4-4600	0.335	89.1	34.8	2.91	1.309	84.6	0.709	3.387	13.0	166.9	---	---	-2.88	0.268	117.4	345.2	-4.0	0.216
4-3800	4-4620	0.334	89.5	35.6	3.09	1.307	84.7	0.706	3.354	12.8	168.2	---	---	-3.04	0.263	115.0	344.1	-4.3	0.210
4-3800	4-4640	0.333	90.0	36.4	3.30	1.307	84.8	0.703	3.327	12.5	169.4	---	---	-3.23	0.258	112.7	342.9	-4.7	0.204
4-3800	4-4660	0.332	90.6	37.4	3.53	1.306	85.0	0.701	3.304	12.2	170.6	---	---	-3.45	0.254	110.4	341.7	-5.1	0.200
4-3800	4-4680	0.331	91.3	38.5	3.79	1.305	85.2	0.699	3.285	11.8	171.7	---	---	-3.70	0.250	108.1	340.5	-5.5	0.196
4-3800	4-4700	0.331	92.1	39.7	4.10	1.305	85.3	0.698	3.269	11.4	172.8	---	---	-3.98	0.247	105.8	339.3	-6.0	0.193
4-3800	4-4720	0.331	93.0	41.2	4.46	1.304	85.5	0.696	3.257	10.9	173.9	---	---	-4.33	0.244	103.6	338.2	-6.6	0.190
4-3800	4-4740	0.332	94.0	42.9	4.89	1.304	85.7	0.695	3.246	10.4	174.9	---	---	-4.74	0.242	101.4	337.0	-7.2	0.188
4-3800	4-4760	0.334	95.1	44.9	5.40	1.303	85.9	0.694	3.238	9.9	175.9	---	---	-5.23	0.241	99.2	336.0	-7.9	0.186
4-3800	4-4780	0.336	96.4	47.3	6.04	1.303	86.2	0.693	3.232	9.3	176.8	---	---	-5.85	0.239	97.1	334.9	-8.8	0.185
4-3800	4-4800	0.341	97.8	50.3	6.85	1.303	86.4	0.693	3.228	8.8	177.8	---	---	-6.64	0.238	95.0	334.0	-9.9	0.185
4-3800	4-4820	0.349	99.4	54.1	7.90	1.303	86.7	0.692	3.225	8.2	178.6	---	---	-7.69	0.238	93.0	333.1	-11.3	0.185
4-3800	4-4840	0.361	101.4	59.0	9.35	1.303	86.9	0.692	3.224	7.5	179.5	---	---	-9.12	0.238	91.1	332.4	-13.1	0.187
4-3800	4-4860	0.384	104.1	65.4	11.46	1.303	87.2	0.692	3.224	6.9	180.4	---	5.454	-11.21	0.238	89.2	331.7	-15.5	0.190
4-3800	4-4880	0.425	109.0	74.3	14.80	1.303	87.5	0.692	3.225	6.2	181.2	---	5.456	-14.53	0.238	87.4	331.3	-19.1	0.197
4-3800	4-4900	0.514	142.8	86.4	20.84	1.303	87.7	0.692	3.227	5.6	182.0	---	5.460	-20.55	0.239	85.6	331.2	-24.6	0.213
4-3800	4-4920	0.743	277.6	73.3	34.47	1.303	88.0	0.692	3.230	5.0	182.7	---	5.465	-34.16	0.239	83.9	332.0	-32.5	0.259
4-3800	4-4940	1.421	287.7	40.5	74.76	1.303	88.0	0.692	3.234	4.8	183.5	---	5.473	-74.44	0.240	82.2	334.8	-34.2	0.423
4-3800	4-4960	0.963	74.2	-71.3	-47.14	1.303	89.0	0.692	3.239	2.5	184.2	---	5.481	47.47	0.241	80.8	329.7	32.6	0.313
4-3800	4-4980	0.579	96.3	-48.6	-24.98	1.304	89.2	0.693	3.244	1.9	184.9	---	5.492	25.33	0.243	79.2	328.1	24.7	0.231
4-3800	4-5000	0.445	101.9	-33.4	-16.45	1.304	89.5	0.693	3.250	1.2	185.6	---	5.504	16.82	0.244	77.7	327.5	17.8	0.207
4-3800	4-5020	0.386	105.2	-22.9	-12.14	1.304	89.8	0.694	3.257	0.4	186.2	---	5.517	12.53	0.246	76.3	327.3	13.4	0.200
4-3800	4-5040	0.356	107.8	-15.4	-9.56	1.304	90.2	0.695	3.264	359.6	546.9	0.996	5.531	9.96	0.247	75.0	327.2	10.5	0.197
4-3800	4-5060	0.339	110.2	-9.9	-7.85	1.305	90.5	0.695	3.271	358.7	547.5	0.996	5.546	8.27	0.249	73.6	327.2	8.4	0.196
4-3800	4-5080	0.329	112.3	-5.7	-6.63	1.305	90.9	0.696	3.279	357.8	548.1	0.996	5.562	7.07	0.251	72.4	327.3	7.0	0.196
4-3800	4-5100	0.322	114.4	-2.6	-5.72	1.305	91.3	0.697	3.288	356.9	548.8	0.996	5.580	6.17	0.253	71.2	327.4	5.8	0.197
4-3800	4-5120	0.318	116.4	-0.1	-5.01	1.305	91.7	0.698	3.296	356.0	549.3	0.995	5.597	5.48	0.255	70.0	327.6	5.0	0.199
4-3800	4-5140	0.316	118.4	1.8	-4.45	1.306	92.0	0.699	3.306	355.0	549.9	0.995	5.616	4.93	0.257	68.9	327.8	4.3	0.200
4-3800	4-5160	0.314	120.4	3.4	-3.98	1.306	92.4	0.700	3.315	354.1	550.5	0.994	5.636	4.48	0.259	67.8	328.1	3.7	0.202
4-3800	4-5180	0.313	122.4	4.6	-3.59	1.306	92.8	0.701	3.325	353.1	551.0	0.993	5.656	4.11	0.261	66.7	328.5	3.2	0.204
4-3800	4-5200	0.313	124.3	5.6	-3.26	1.307	93.3	0.702	3.335	352.1	551.6	0.992	5.677	3.80	0.263	65.7	328.9	2.8	0.206
4-3800	4-5220	0.314	126.3	6.4	-2.98	1.307	93.7	0.704	3.345	351.1	552.1	0.991	5.698	3.54	0.265	64.7	329.3	2.5	0.209
4-3800	4-5240	0.315	128.3	7.1	-2.73	1.308	94.1	0.705	3.355	350.1	552.6	0.990	5.721	3.31	0.268	63.8	329.8	2.2	0.211
4-3800	4-5260	0.317	130.2	7.5	-2.51	1.308	94.5	0.706	3.366	349.0	553.1	0.989	5.743	3.11	0.270	62.9	330.4	2.0	0.213
4-3800	4-5280	0.318	132.1	7.9	-2.32	1.308	95.0	0.708	3.377	348.0	553.6	0.987	5.766	2.93	0.272	62.0	331.0	1.8	0.216
4-3800	4-5300	0.321	134.1	8.2	-2.15	1.309	95.4	0.709	3.388	346.9	554.0	0.986	5.790	2.78	0.275	61.1	331.6	1.6	0.218
4-3800	4-5320	0.323	136.0	8.4	-1.99	1.309	95.9	0.711	3.399	345.8	554.5	0.984	5.815	2.64	0.277	60.3	332.3	1.5	0.220
4-3800	4-5340	0.326	137.9	8.5	-1.85	1.309	96.3	0.712	3.410	344.7	555.0	0.982	5.839	2.51	0.279	59.5	333.0	1.3	0.223
4-3800	4-5360	0.330	139.7	8.5	-1.72	1.310	96.8	0.714	3.422	343.6	555.4	0.979	5.864	2.40	0.282	58.7	333.8	1.2	0.226
4-3800	4-5380	0.333	141.6	8.5	-1.60	1.310	97.3	0.715	3.434	342.5	555.8	0.977	5.890	2.30	0.284	58.0	334.6	1.1	0.228
4-3800	4-5400	0.337	143.4	8.4	-1.49	1.310	97.8	0.717	3.445	341.4	556.2	0.974	5.916	2.21	0.286	57.2	335.4	1.0	0.231
4-3810	4-4090	0.617	118.7	23.1	0.85	1.619	87.5	1.602	-1.648	4.1	108.8	---	---	-1.23	0.991	162.3	354.9	-0.7	0.935
4-3810	4-4110	0.573	115.6	23.8	0.88	1.571	86.6	1.452	-2.192	5.8	112.1	---	---	-1.24	0.911	161.3	355.2	-0.7	0.857
4-3810	4-4130	0.538	112.4	24.5	0.92	1.532	85.7	1.331	-2.990	7.5	115.3	---	---	-1.25	0.842	160.3	355.4	-0.7	0.789
4-3810	4-4150	0.509	109.3	25.1	0.96	1.499	85.0	1.232	-4.251	9.1	118.6	---	---	-1.26	0.780	159.2	355.6	-0.7	0.728
4-3810	4-4170	0.487	106.3	25.6	0.99	1.472	84.2	1.151	-6.524	10.7	121.7	---	---	-1.27	0.725	158.0	355.8	-0.7	0.675
4-3810	4-4190	0.468	103.5	26.1	1.03	1.449	83.6	1.08411	.750	12.3	124.8	---	---	-1.29	0.677	156.8	355.9	-0.8	0.627
4-3810	4-4210	0.454	100.7	26.4	1.07	1.429	83.0	1.02735	.741	13.8	127.9	---	---	-1.30	0.633	155.5	356.0	-0.8	0.584
4-3810	4-4230	0.442	98.2	26.7	1.11	1.412	82.5	0.98049	.637	15.1	130.8	---	---	-1.32	0.593	154.2	356.0	-0.8	0.545
4-3810	4-4250	0.432	96.0	27.0	1.15	1.397	82.0	0.94116	.396	16.4	133.6	---	---	-1.34	0.557	152.7	355.9	-0.9	0.510
4-3810	4-4270	0.424	93.9	27.2	1.19	1.385	81.6	0.90710	.438	17.6	136.4	---	---	-1.36	0.525	151.2	355.8	-0.9	0.478
4-3810	4-4290	0.418	92.0	27.4	1.23	1.374	81.3	0.878	7.963	18.7	139.0	---	---	-1.38	0.495	149.7	355.7	-1.0	0.448
4-3810	4-4310	0.412	90.4	27.6	1.28	1.365	81.0	0.854	6.615	19.6	141.5	---	---	-1.40	0.468	148.0	355.4	-1.1	0.422
4-3810	4-4330	0.408	88.9	27.8	1.32	1.356	80.7	0.833	5.772	20.5	143.9	---	---	-1.43	0.444	146.3	355.1	-1.1	0.398
4-3810	4-4350	0.404	87.7	27.9	1.37	1.349	80.5	0.815	5.200	21.2	146.1	---	---	-1.45	0.421	144.5	354.8	-1.2	0.376
4-3810	4-4370	0.400	86.6	28.1	1.42	1.343	80.3	0.799	4.789	21.9	148.3	---	---	-1.48	0.401	142.7	354.4	-1.3	0.355
4-3810	4-4390	0.397	85.7	28.3	1.47	1.338	80.2	0.786	4.482	22.4	150.4	---	---	-1.51	0.382	140.8	353.9	-1.4	0.337
4-3810	4-4410	0.394	84.9	28.4	1.52	1.333	80.0	0.774	4.245	22.9	152.4	---	---	-1.54	0.365	138.8	353.3	-1.5	0.320
4-3810	4-4430	0.392	84.3	28.6	1.57	1.329	80.0	0.764	4.058	23.2	154.3	---	---	-1.58	0.350	136.7	352.6	-1.6	0.304
4-3810	4-4450	0.389	83.8	28.8	1.63	1.326	79.9	0.755	3.908	23.5	156.1	---	---	-1.62	0.336	134.6	351.9	-1.8	0.290
4-3810	4-4470	0.387	83.5	29.0	1.69	1.323	79.9	0.747	3.786	23.7	157.8	---	---	-1.66	0.323	132.5	351.1	-1.9	0.277
4-3810	4-4490	0.385	83.2	29.2	1.75	1.320	79.9	0.740	3.686	23.8	159.5	---	---	-1.70	0.311	130.2	350.3	-2.0	0.265
4-3810	4-4510	0.383	83.1	29.5	1.82	1.317	79.9	0.734	3.603	23.9	161.0	---	---	-1.75	0.301	128.0	349.4	-2.2	0.254
4-3810	4-4530	0.380	83.1	29.7	1.89	1.315	80.0	0.729	3.534	23.9	162.5	---	---	-1.80	0.291	125.7	348.4	-2.4	0.244
4-3810	4-4550	0.378	83.1	30.0	1.96	1.314	80.0	0.724	3.476	23.8	164.0	---	---	-1.86	0.283	123.4	347.4	-2.5	0.236
4-3810	4-4570	0.376	83.3	30.4	2.04	1.312	80.1	0.720	3.428	23.6	165.4	---	---	-1.92	0.275	121.0	346.3	-2.7	0.228
4-3810	4-4590	0.374	83.5	30.7	2.13	1.311	80.2	0.717	3.387	23.5	166.7	---	---	-1.99	0.269	118.6	345.2	-2.9	0.220
4-3810	4-4610	0.372	83.9	31.1	2.22	1.310	80.4	0.714	3.353	23.2	167.9	---	---	-2.06	0.263	116.3	344.0	-3.1	0.214
4-3810	4-4630	0.369	84.3	31.5	2.32	1.309	80.5	0.711	3.324	22.9	169.2	---	---	-2.14	0.257	113.9	342.8	-3.3	0.208
4-3810	4-4650	0.367	84.7	31.9	2.42	1.308	80.7	0.708	3.300	22.6	170.3	---	---	-2.23	0.253	111.5	341.7	-3.5	0.204
4-3810	4-4670	0.365	85.3	32.4	2.54	1.307	80.8	0.706	3.279	22.2	171.5	---	---	-2.33	0.249	109.2	340.5	-3.8	0.199
4-3810	4-4690	0.363	85.9	32.9	2.67	1.306	81.0	0.704	3.263	21.8	172.5	---	---	-2.44	0.246	106.9	339.3	-4.0	0.195
4-3810	4-4710	0.361	86.6	33.5	2.80	1.306	81.2	0.703	3.249	21.3	173.6	---	---	-2.56	0.243	104.6	338.2	-4.3	0.192
4-3810	4-4730	0.358	87.3	34.1	2.96	1.306	81.4	0.701	3.239	20.8	174.6	---	---	-2.70	0.241	102.3	337.0	-4.5	0.190
4-3810	4-4750	0.356	88.1	34.8	3.13	1.305	81.7	0.700	3.230	20.3	175.6	---	---	-2.85	0.239	100.1	336.0	-4.8	0.188
4-3810	4-4770	0.354	89.0	35.6	3.32	1.305	81.9	0.699	3.224	19.7	176.5	---	---	-3.02	0.238	98.0	334.9	-5.1	0.186
4-3810	4-4790	0.353	90.0	36.5	3.53	1.305	82.2	0.698	3.219	19.1	177.4	---	---	-3.22	0.237	95.9	334.0	-5.5	0.185

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3810	4-4810	0.351	91.0	37.5	3.78	1.305	82.4	0.698	3.216	18.5	178.3	---	---	-3.45	0.236	93.9	333.1	-5.8	0.184
4-3810	4-4830	0.350	92.1	38.6	4.06	1.305	82.7	0.697	3.215	17.8	179.2	---	---	-3.72	0.236	91.9	332.2	-6.2	0.183
4-3810	4-4850	0.349	93.3	39.9	4.40	1.305	83.0	0.697	3.215	17.2	180.0	---	5.454	-4.04	0.236	90.0	331.4	-6.7	0.183
4-3810	4-4870	0.348	94.6	41.5	4.79	1.305	83.2	0.696	3.216	16.5	180.8	---	5.455	-4.42	0.236	88.1	330.8	-7.2	0.183
4-3810	4-4890	0.349	96.0	43.3	5.27	1.305	83.5	0.696	3.218	15.7	181.6	---	5.458	-4.88	0.237	86.3	330.1	-7.8	0.184
4-3810	4-4910	0.350	97.5	45.5	5.85	1.305	83.8	0.696	3.221	15.0	182.4	---	5.463	-5.45	0.237	84.6	329.6	-8.5	0.185
4-3810	4-4930	0.353	99.1	48.2	6.60	1.305	84.2	0.696	3.225	14.2	183.1	---	5.469	-6.18	0.238	82.9	329.2	-9.4	0.186
4-3810	4-4950	0.358	100.9	51.7	7.57	1.305	84.5	0.696	3.230	13.5	183.8	---	5.478	-7.13	0.240	81.3	328.9	-10.6	0.188
4-3810	4-4970	0.368	103.0	56.2	8.90	1.305	84.8	0.696	3.235	12.7	184.5	---	5.487	-8.45	0.241	79.8	328.7	-12.1	0.191
4-3810	4-4990	0.386	105.7	62.2	10.83	1.306	85.1	0.696	3.242	11.9	185.2	---	5.498	-10.36	0.242	78.3	328.7	-14.3	0.195
4-3810	4-5010	0.421	109.6	70.5	13.86	1.306	85.5	0.696	3.248	11.0	185.9	---	5.511	-13.38	0.244	76.9	328.9	-17.4	0.201
4-3810	4-5030	0.498	121.5	82.5	19.31	1.306	85.8	0.697	3.256	10.2	186.5	---	5.524	-18.81	0.246	75.5	329.6	-22.4	0.215
4-3810	4-5050	0.698	281.2	78.3	31.55	1.306	86.1	0.697	3.263	9.5	187.2	---	5.539	-31.04	0.247	74.2	331.7	-30.3	0.255
4-3810	4-5070	1.342	294.8	45.8	69.41	1.307	86.3	0.698	3.272	9.1	187.8	---	5.555	-68.88	0.249	72.9	338.1	-34.4	0.406
4-3810	4-5090	0.978	67.2	-68.7	-47.76	1.307	87.2	0.698	3.280	6.8	188.4	---	5.570	48.31	0.251	71.8	332.0	32.0	0.323
4-3810	4-5110	0.571	96.4	-46.5	-24.20	1.307	87.5	0.699	3.289	6.1	189.0	---	5.587	24.76	0.253	70.6	328.8	23.3	0.238
4-3810	4-5130	0.437	103.6	-31.0	-15.60	1.308	87.8	0.699	3.298	5.3	189.6	---	5.605	16.18	0.255	69.5	328.2	16.3	0.217
4-3810	4-5150	0.381	107.7	-20.4	-11.36	1.308	88.2	0.700	3.308	4.4	190.1	---	5.624	11.96	0.257	68.4	328.2	12.0	0.210
4-3810	4-5170	0.353	110.7	-13.1	-8.86	1.308	88.6	0.701	3.318	3.4	190.7	---	5.643	9.47	0.260	67.3	328.5	9.3	0.208
4-3810	4-5190	0.337	113.4	-7.9	-7.21	1.309	89.0	0.702	3.328	2.5	191.2	---	5.663	7.83	0.262	66.3	328.8	7.4	0.206
4-3810	4-5210	0.327	115.8	-4.0	-6.04	1.309	89.4	0.702	3.339	1.5	191.8	---	5.684	6.68	0.264	65.4	329.2	6.1	0.209
4-3810	4-5230	0.321	118.2	-1.1	-5.17	1.309	89.8	0.703	3.349	0.5	192.3	---	5.705	5.83	0.266	64.4	329.7	5.1	0.211
4-3810	4-5250	0.317	120.4	1.2	-4.49	1.310	90.2	0.704	3.360	359.4	552.8	0.994	5.727	5.17	0.269	63.5	330.3	4.3	0.212
4-3810	4-5270	0.314	122.6	2.9	-3.95	1.310	90.7	0.705	3.371	358.4	553.3	0.993	5.749	4.64	0.271	62.7	330.8	3.7	0.214
4-3810	4-5290	0.312	124.8	4.3	-3.51	1.311	91.1	0.706	3.383	357.4	553.8	0.993	5.772	4.22	0.273	61.8	331.4	3.2	0.216
4-3810	4-5310	0.311	127.0	5.3	-3.14	1.311	91.5	0.708	3.394	356.3	554.2	0.993	5.796	3.87	0.276	61.0	332.1	2.8	0.218
4-3810	4-5330	0.311	129.2	6.2	-2.83	1.311	92.0	0.709	3.406	355.2	554.7	0.992	5.819	3.57	0.278	60.2	332.8	2.5	0.221
4-3810	4-5350	0.311	131.3	6.8	-2.56	1.312	92.4	0.710	3.417	354.1	555.1	0.991	5.843	3.32	0.281	59.5	333.5	2.2	0.223
4-3810	4-5370	0.312	133.5	7.2	-2.33	1.312	92.9	0.711	3.429	353.0	555.6	0.990	5.868	3.10	0.283	58.8	334.3	2.0	0.225
4-3810	4-5390	0.313	135.6	7.6	-2.12	1.312	93.4	0.712	3.441	351.9	556.0	0.989	5.893	2.91	0.285	58.0	335.1	1.8	0.228
4-3810	4-5410	0.314	137.7	7.8	-1.94	1.313	93.8	0.714	3.453	350.8	556.4	0.988	5.918	2.75	0.288	57.3	335.9	1.6	0.230
4-3820	4-4100	0.634	111.1	24.1	0.84	1.603	80.9	1.535-1.812		15.1	110.6	---	---	-1.08	0.962	162.2	355.0	-0.6	0.909
4-3820	4-4120	0.597	107.8	24.7	0.87	1.558	80.1	1.396-2.442		16.9	114.0	---	---	-1.09	0.885	161.3	355.2	-0.6	0.834
4-3820	4-4140	0.568	104.7	25.1	0.90	1.521	79.5	1.283-3.397		18.8	117.4	---	---	-1.09	0.817	160.2	355.4	-0.6	0.767
4-3820	4-4160	0.545	101.6	25.5	0.93	1.490	78.8	1.192-4.989		20.5	120.7	---	---	-1.10	0.757	159.1	355.5	-0.7	0.709
4-3820	4-4180	0.526	98.8	25.8	0.96	1.463	78.3	1.117-8.139		22.2	124.0	---	---	-1.10	0.704	157.9	355.6	-0.7	0.657
4-3820	4-4200	0.512	96.2	26.0	0.99	1.441	77.8	1.05517.147		23.8	127.2	---	---	-1.11	0.656	156.7	355.6	-0.7	0.610
4-3820	4-4220	0.501	93.9	26.2	1.02	1.422	77.3	1.00433.278		25.4	130.2	---	---	-1.12	0.613	155.4	355.6	-0.7	0.568
4-3820	4-4240	0.491	91.7	26.4	1.05	1.406	76.9	0.96124.281		26.8	133.2	---	---	-1.12	0.575	154.0	355.6	-0.8	0.531
4-3820	4-4260	0.484	89.8	26.5	1.08	1.392	76.5	0.92512.532		28.0	136.0	---	---	-1.13	0.540	152.5	355.4	-0.8	0.496
4-3820	4-4280	0.478	88.2	26.6	1.12	1.380	76.2	0.895	8.876	29.2	138.7	---	---	-1.14	0.508	151.0	355.2	-0.9	0.466
4-3820	4-4300	0.472	86.7	26.6	1.15	1.370	76.0	0.869	7.103	30.2	141.3	---	---	-1.16	0.479	149.4	355.0	-0.9	0.437
4-3820	4-4320	0.468	85.4	26.7	1.18	1.361	75.7	0.847	6.064	31.1	143.8	---	---	-1.17	0.453	147.7	354.7	-1.0	0.412
4-3820	4-4340	0.464	84.3	26.8	1.22	1.354	75.6	0.829	5.386	31.9	146.1	---	---	-1.18	0.429	146.0	354.3	-1.0	0.388
4-3820	4-4360	0.461	83.4	26.9	1.25	1.347	75.4	0.813	4.912	32.6	148.3	---	---	-1.20	0.408	144.1	353.9	-1.1	0.367
4-3820	4-4380	0.458	82.6	26.9	1.29	1.341	75.3	0.799	4.564	33.2	150.4	---	---	-1.21	0.388	142.2	353.3	-1.2	0.348
4-3820	4-4400	0.455	82.0	27.0	1.33	1.336	75.2	0.787	4.300	33.7	152.4	---	---	-1.23	0.370	140.3	352.8	-1.3	0.330
4-3820	4-4420	0.452	81.5	27.1	1.36	1.332	75.2	0.776	4.095	34.1	154.3	---	---	-1.25	0.353	138.2	352.1	-1.4	0.314
4-3820	4-4440	0.449	81.1	27.2	1.40	1.328	75.2	0.767	3.932	34.3	156.2	---	---	-1.27	0.338	136.1	351.4	-1.5	0.299
4-3820	4-4460	0.447	80.8	27.3	1.44	1.325	75.2	0.759	3.801	34.5	157.9	---	---	-1.29	0.325	133.9	350.6	-1.6	0.285
4-3820	4-4480	0.444	80.6	27.5	1.49	1.322	75.2	0.752	3.693	34.7	159.5	---	---	-1.31	0.312	131.7	349.7	-1.7	0.273
4-3820	4-4500	0.441	80.5	27.6	1.53	1.319	75.2	0.746	3.605	34.7	161.1	---	---	-1.34	0.301	129.4	348.8	-1.8	0.261
4-3820	4-4520	0.439	80.5	27.7	1.57	1.317	75.3	0.741	3.532	34.7	162.6	---	---	-1.37	0.291	127.1	347.8	-1.9	0.251
4-3820	4-4540	0.436	80.6	27.9	1.62	1.315	75.4	0.736	3.471	34.6	164.0	---	---	-1.40	0.282	124.7	346.8	-2.0	0.242
4-3820	4-4560	0.433	80.7	28.1	1.67	1.314	75.5	0.732	3.419	34.4	165.4	---	---	-1.43	0.274	122.3	345.7	-2.2	0.234
4-3820	4-4580	0.430	80.9	28.3	1.72	1.312	75.7	0.728	3.377	34.2	166.7	---	---	-1.46	0.267	119.9	344.6	-2.3	0.226
4-3820	4-4600	0.427	81.2	28.5	1.78	1.311	75.8	0.725	3.341	34.0	167.9	---	---	-1.50	0.261	117.5	343.5	-2.5	0.220
4-3820	4-4620	0.424	81.5	28.7	1.83	1.310	76.0	0.722	3.311	33.6	169.1	---	---	-1.54	0.255	115.0	342.3	-2.6	0.214
4-3820	4-4640	0.421	81.9	29.0	1.89	1.309	76.2	0.719	3.286	33.3	170.3	---	---	-1.58	0.250	112.6	341.2	-2.7	0.208
4-3820	4-4660	0.418	82.4	29.2	1.96	1.308	76.3	0.717	3.265	32.9	171.4	---	---	-1.63	0.246	110.2	340.0	-2.9	0.204
4-3820	4-4680	0.415	82.9	29.5	2.02	1.308	76.6	0.715	3.248	32.4	172.5	---	---	-1.68	0.243	107.8	338.9	-3.1	0.200
4-3820	4-4700	0.412	83.5	29.8	2.09	1.307	76.8	0.713	3.234	32.0	173.5	---	---	-1.73	0.240	105.5	337.7	-3.2	0.197
4-3820	4-4720	0.408	84.1	30.1	2.17	1.307	77.0	0.711	3.223	31.4	174.5	---	---	-1.79	0.238	103.2	336.6	-3.4	0.194
4-3820	4-4740	0.405	84.7	30.5	2.25	1.307	77.2	0.710	3.214	30.9	175.4	---	---	-1.86	0.236	100.9	335.6	-3.5	0.191
4-3820	4-4760	0.402	85.5	30.8	2.34	1.306	77.5	0.709	3.208	30.3	176.4	---	---	-1.93	0.234	98.7	334.6	-3.7	0.189
4-3820	4-4780	0.398	86.2	31.2	2.43	1.306	77.8	0.707	3.203	29.7	177.3	---	---	-2.01	0.233	96.5	333.6	-3.9	0.188
4-3820	4-4800	0.395	87.1	31.6	2.54	1.306	78.0	0.707	3.200	29.1	178.1	---	---	-2.10	0.233	94.5	332.7	-4.0	0.187
4-3820	4-4820	0.392	87.9	32.1	2.65	1.306	78.3	0.706	3.199	28.4	179.0	---	---	-2.20	0.233	92.4	331.9	-4.2	0.186
4-3820	4-4840	0.388	88.9	32.6	2.77	1.306	78.6	0.705	3.199	27.7	179.8	---	---	-2.31	0.233	90.5	331.1	-4.4	0.186
4-3820	4-4860	0.385	89.8	33.2	2.91	1.306	78.9	0.704	3.201	27.0	180.6	---	5.455	-2.43	0.233	88.6	330.4	-4.6	0.185
4-3820	4-4880	0.382	90.9	33.8	3.06	1.306	79.2	0.704	3.203	26.3	181.4	---	5.457	-2.57	0.234	86.7	329.8	-4.8	0.185
4-3820	4-4900	0.379	92.0	34.5	3.23	1.306	79.5	0.703	3.206	25.5	182.1	---	5.461	-2.72	0.234	85.0	329.3	-5.0	0.186
4-3820	4-4920	0.376	93.1	35.2	3.43	1.306	79.8	0.703	3.211	24.7	182.9	---	5.468	-2.90	0.235	83.3	328.8	-5.2	0.186
4-3820	4-4940	0.373	94.3	36.1	3.65	1.307	80.2	0.703	3.216	23.9	183.6	---	5.475	-3.10	0.237	81.7	328.4	-5.5	0.187
4-3820	4-4960	0.371	95.6	37.0	3.90	1.307	80.5	0.703	3.221	23.1	184.3	---	5.484	-3.34	0.238	80.1	328.1	-5.8	0.188
4-3820	4-4980	0.368	97.0	38.2	4.20	1.307	80.8	0.702	3.228	22.3	184.9	---	5.495	-3.62	0.239	78.6	327.9	-6.1	0.189
4-3820	4-5000	0.366	98.4	39.5	4.55	1.307	81.2	0.702	3.235	21.4	185.6	---	5.507	-3.96	0.241	77.2	327.7	-6.5	0.191
4-3820	4-5020	0.365	99.9	41.0	4.97	1.308	81.5	0.702	3.242	20.5	186.2	---	5.520	-4.37	0.243	75.8	327.7	-7.0	0.192
4-3820	4-5040	0.365	101.6	42.9	5.49	1.308	81.9	0.702	3.250	19.7	186.9	---	5.534	-4.88	0.245	74.5	327.7	-7.6	0.194
4-3820	4-5060	0.366	103.4	45.3	6.15	1.308	82.3	0.703	3.259	18.8	187.5	---	5.549	-5.52	0.247	73.2	327.8	-8.3	0.196

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3820	4-5080	0.369	105.3	48.3	7.01	1.309	82.6	0.703	3.268	17.9	188.1	---	5.565	-6.37	0.249	72.0	327.9	-9.2	0.198
4-3820	4-5100	0.375	107.6	52.2	8.19	1.309	83.0	0.703	3.277	16.9	188.7	---	5.581	-7.53	0.251	70.8	328.2	-10.5	0.201
4-3820	4-5120	0.389	110.3	57.6	9.88	1.309	83.4	0.703	3.287	16.0	189.3	---	5.599	-9.21	0.253	69.7	328.6	-12.3	0.205
4-3820	4-5140	0.416	114.1	65.2	12.55	1.310	83.8	0.704	3.297	15.1	189.8	---	5.617	-11.86	0.255	68.6	329.3	-15.0	0.211
4-3820	4-5160	0.477	121.8	76.5	17.32	1.310	84.2	0.704	3.307	14.1	190.4	---	5.636	-16.62	0.258	67.6	330.4	-19.4	0.222
4-3820	4-5180	0.644	270.2	84.6	28.02	1.310	84.5	0.705	3.318	13.3	190.9	---	5.655	-27.31	0.260	66.6	333.1	-27.0	0.253
4-3820	4-5200	1.247	300.8	52.3	63.27	1.311	84.8	0.705	3.328	12.7	191.5	---	5.676	-62.54	0.262	65.6	341.8	-34.1	0.388
4-3820	4-5220	0.975	66.1	-65.1	-47.27	1.311	85.7	0.705	3.339	10.5	192.0	---	5.695	48.01	0.265	64.8	335.9	31.2	0.332
4-3820	4-5240	0.550	99.0	-42.8	-22.55	1.311	86.0	0.706	3.351	9.7	192.5	---	5.716	23.31	0.267	63.9	331.6	21.2	0.246
4-3820	4-5260	0.424	107.3	-27.1	-14.19	1.312	86.4	0.707	3.362	8.8	193.0	---	5.738	14.96	0.269	63.0	331.1	14.3	0.228
4-3820	4-5280	0.374	111.8	-16.8	-10.17	1.312	86.8	0.707	3.374	7.8	193.5	---	5.760	10.96	0.272	62.2	331.4	10.4	0.223
4-3820	4-5300	0.349	115.2	-9.9	-7.84	1.313	87.2	0.708	3.385	6.7	193.9	---	5.783	8.64	0.274	61.4	331.9	7.9	0.222
4-3820	4-5320	0.335	118.1	-5.0	-6.31	1.313	87.6	0.709	3.397	5.7	194.4	---	5.806	7.13	0.277	60.6	332.6	6.3	0.222
4-3820	4-5340	0.327	120.8	-1.6	-5.23	1.313	88.1	0.710	3.409	4.6	194.9	---	5.829	6.06	0.279	59.9	333.3	5.2	0.224
4-3820	4-5360	0.321	123.3	1.0	-4.43	1.314	88.5	0.711	3.421	3.5	195.3	---	5.853	5.28	0.282	59.2	334.0	4.3	0.225
4-3820	4-5380	0.317	125.7	2.9	-3.82	1.314	89.0	0.712	3.434	2.4	195.8	---	5.877	4.68	0.284	58.5	334.8	3.7	0.227
4-3820	4-5400	0.314	128.1	4.4	-3.32	1.315	89.5	0.712	3.446	1.3	196.2	---	5.901	4.20	0.286	57.8	335.6	3.2	0.229
4-3820	4-5420	0.312	130.4	5.4	-2.92	1.315	89.9	0.713	3.458	0.2	196.6	---	5.926	3.81	0.289	57.2	336.4	2.8	0.231
4-3830	4-4150	0.628	98.5	25.3	0.90	1.508	72.9	1.230-3.963		31.0	120.3	---	---	-0.93	0.791	160.3	355.0	-0.6	0.746
4-3830	4-4170	0.608	95.9	25.5	0.93	1.479	72.4	1.148-6.108		32.8	123.7	---	---	-0.93	0.733	159.2	355.1	-0.6	0.689
4-3830	4-4190	0.593	93.5	25.6	0.95	1.454	72.0	1.08111.031		34.6	127.1	---	---	-0.93	0.681	158.0	355.1	-0.6	0.639
4-3830	4-4210	0.581	91.4	25.7	0.98	1.433	71.6	1.02733.447		36.2	130.3	---	---	-0.94	0.634	156.8	355.0	-0.7	0.594
4-3830	4-4230	0.571	89.5	25.8	1.00	1.415	71.3	0.98147.802		37.7	133.3	---	---	-0.94	0.592	155.4	354.9	-0.7	0.553
4-3830	4-4250	0.563	87.9	25.9	1.03	1.400	71.0	0.94415.683		39.1	136.3	---	---	-0.94	0.555	154.0	354.8	-0.7	0.517
4-3830	4-4270	0.556	86.5	25.9	1.05	1.387	70.8	0.912	9.995	40.4	139.0	---	---	-0.94	0.521	152.5	354.5	-0.8	0.484
4-3830	4-4290	0.550	85.2	25.9	1.08	1.376	70.6	0.886	7.638	41.4	141.7	---	---	-0.95	0.490	151.0	354.3	-0.8	0.454
4-3830	4-4310	0.545	84.2	26.0	1.11	1.366	70.4	0.863	6.358	42.4	144.2	---	---	-0.95	0.462	149.3	353.9	-0.9	0.427
4-3830	4-4330	0.541	83.3	26.0	1.13	1.358	70.3	0.844	5.559	43.2	146.6	---	---	-0.96	0.436	147.6	353.5	-0.9	0.402
4-3830	4-4350	0.537	82.5	26.0	1.16	1.350	70.2	0.828	5.017	43.9	148.8	---	---	-0.97	0.413	145.8	353.0	-1.0	0.380
4-3830	4-4370	0.533	81.9	26.1	1.19	1.344	70.1	0.814	4.629	44.5	150.9	---	---	-0.97	0.392	143.9	352.5	-1.0	0.359
4-3830	4-4390	0.530	81.4	26.1	1.21	1.339	70.1	0.802	4.338	45.0	152.9	---	---	-0.98	0.373	141.9	351.9	-1.1	0.341
4-3830	4-4410	0.527	81.0	26.2	1.24	1.334	70.1	0.791	4.115	45.4	154.8	---	---	-0.99	0.355	139.9	351.2	-1.2	0.324
4-3830	4-4430	0.523	80.7	26.2	1.27	1.330	70.1	0.782	3.940	45.6	156.6	---	---	-1.00	0.339	137.7	350.5	-1.3	0.308
4-3830	4-4450	0.520	80.5	26.3	1.30	1.327	70.2	0.774	3.800	45.8	158.3	---	---	-1.01	0.325	135.6	349.7	-1.3	0.294
4-3830	4-4470	0.517	80.3	26.4	1.33	1.324	70.2	0.767	3.686	45.9	159.9	---	---	-1.02	0.312	133.3	348.8	-1.4	0.281
4-3830	4-4490	0.513	80.3	26.4	1.36	1.321	70.3	0.761	3.593	45.9	161.5	---	---	-1.04	0.300	131.0	347.9	-1.5	0.270
4-3830	4-4510	0.510	80.3	26.5	1.39	1.319	70.4	0.756	3.516	45.9	162.9	---	---	-1.05	0.289	128.6	346.9	-1.6	0.259
4-3830	4-4530	0.507	80.4	26.6	1.42	1.317	70.6	0.751	3.453	45.7	164.3	---	---	-1.06	0.280	126.2	345.9	-1.7	0.249
4-3830	4-4550	0.503	80.5	26.8	1.45	1.315	70.7	0.746	3.400	45.5	165.7	---	---	-1.08	0.271	123.7	344.8	-1.8	0.241
4-3830	4-4570	0.500	80.8	26.9	1.49	1.313	70.9	0.743	3.356	45.3	166.9	---	---	-1.10	0.264	121.2	343.7	-1.9	0.233
4-3830	4-4590	0.496	81.0	27.0	1.52	1.312	71.1	0.739	3.319	45.0	168.2	---	---	-1.12	0.257	118.7	342.6	-2.0	0.226
4-3830	4-4610	0.492	81.3	27.1	1.56	1.311	71.2	0.736	3.288	44.7	169.3	---	---	-1.14	0.251	116.2	341.4	-2.1	0.220
4-3830	4-4630	0.488	81.7	27.3	1.60	1.310	71.4	0.733	3.262	44.3	170.5	---	---	-1.16	0.246	113.7	340.3	-2.3	0.215
4-3830	4-4650	0.484	82.1	27.4	1.63	1.309	71.7	0.731	3.241	43.8	171.5	---	---	-1.18	0.242	111.2	339.2	-2.4	0.210
4-3830	4-4670	0.481	82.5	27.6	1.67	1.309	71.9	0.729	3.224	43.4	172.6	---	---	-1.21	0.238	108.7	338.0	-2.5	0.206
4-3830	4-4690	0.477	83.0	27.8	1.72	1.308	72.1	0.727	3.210	42.8	173.6	---	---	-1.23	0.235	106.3	336.9	-2.6	0.202
4-3830	4-4710	0.472	83.5	28.0	1.76	1.308	72.4	0.725	3.199	42.3	174.5	---	---	-1.26	0.233	103.9	335.9	-2.7	0.199
4-3830	4-4730	0.468	84.1	28.2	1.81	1.308	72.6	0.723	3.191	41.7	175.5	---	---	-1.29	0.231	101.6	334.8	-2.8	0.197
4-3830	4-4750	0.464	84.7	28.4	1.85	1.307	72.9	0.722	3.184	41.1	176.4	---	---	-1.33	0.230	99.3	333.9	-2.9	0.195
4-3830	4-4770	0.460	85.3	28.6	1.91	1.307	73.2	0.720	3.180	40.5	177.2	---	---	-1.36	0.229	97.0	332.9	-3.0	0.193
4-3830	4-4790	0.455	86.0	28.8	1.96	1.307	73.5	0.719	3.178	39.8	178.1	---	---	-1.40	0.228	94.9	332.1	-3.1	0.192
4-3830	4-4810	0.451	86.7	29.0	2.02	1.307	73.8	0.718	3.177	39.1	178.9	---	---	-1.45	0.228	92.8	331.3	-3.2	0.191
4-3830	4-4830	0.447	87.5	29.3	2.08	1.307	74.1	0.717	3.177	38.4	179.7	---	---	-1.49	0.228	90.7	330.5	-3.3	0.190
4-3830	4-4850	0.442	88.3	29.5	2.14	1.307	74.4	0.716	3.179	37.7	180.5	---	5.455	-1.55	0.228	88.8	329.9	-3.4	0.190
4-3830	4-4870	0.438	89.1	29.8	2.21	1.307	74.7	0.715	3.181	36.9	181.2	---	5.457	-1.60	0.229	86.9	329.3	-3.5	0.190
4-3830	4-4890	0.433	90.0	30.1	2.29	1.307	75.0	0.714	3.185	36.1	182.0	---	5.461	-1.66	0.230	85.1	328.7	-3.6	0.190
4-3830	4-4910	0.429	90.9	30.4	2.37	1.308	75.4	0.714	3.190	35.3	182.7	---	5.467	-1.73	0.231	83.4	328.3	-3.7	0.190
4-3830	4-4930	0.424	91.9	30.8	2.46	1.308	75.7	0.713	3.195	34.5	183.4	---	5.474	-1.81	0.232	81.7	327.9	-3.8	0.191
4-3830	4-4950	0.420	92.9	31.2	2.55	1.308	76.1	0.713	3.201	33.7	184.0	---	5.483	-1.89	0.234	80.1	327.6	-3.9	0.191
4-3830	4-4970	0.416	93.9	31.6	2.66	1.308	76.4	0.712	3.208	32.8	184.7	---	5.494	-1.98	0.235	78.6	327.4	-4.0	0.192
4-3830	4-4990	0.411	95.0	32.0	2.78	1.308	76.8	0.712	3.216	32.0	185.4	---	5.506	-2.09	0.237	77.1	327.3	-4.2	0.193
4-3830	4-5010	0.407	96.2	32.5	2.91	1.309	77.1	0.712	3.224	31.1	186.0	---	5.518	-2.20	0.239	75.7	327.2	-4.3	0.195
4-3830	4-5030	0.403	97.3	33.0	3.05	1.309	77.5	0.711	3.232	30.2	186.6	---	5.532	-2.33	0.241	74.4	327.2	-4.4	0.196
4-3830	4-5050	0.399	98.6	33.6	3.22	1.309	77.9	0.711	3.241	29.3	187.2	---	5.546	-2.49	0.243	73.1	327.2	-4.6	0.197
4-3830	4-5070	0.395	99.9	34.3	3.40	1.310	78.3	0.711	3.251	28.4	187.8	---	5.562	-2.66	0.245	71.9	327.3	-4.8	0.199
4-3830	4-5090	0.391	101.3	35.1	3.62	1.310	78.6	0.711	3.260	27.4	188.4	---	5.578	-2.86	0.247	70.7	327.5	-5.0	0.200
4-3830	4-5110	0.387	102.7	35.9	3.87	1.310	79.0	0.711	3.270	26.5	189.0	---	5.595	-3.10	0.250	69.6	327.7	-5.2	0.202
4-3830	4-5130	0.384	104.2	37.0	4.17	1.311	79.4	0.711	3.281	25.5	189.5	---	5.613	-3.39	0.252	68.5	328.0	-5.5	0.204
4-3830	4-5150	0.382	105.8	38.2	4.53	1.311	79.8	0.711	3.292	24.5	190.1	---	5.631	-3.74	0.254	67.5	328.4	-5.9	0.206
4-3830	4-5170	0.380	107.6	39.8	4.98	1.312	80.2	0.711	3.302	23.5	190.6	---	5.651	-4.17	0.257	66.5	328.8	-6.3	0.208
4-3830	4-5190	0.379	109.4	41.7	5.54	1.312	80.7	0.711	3.314	22.5	191.1	---	5.670	-4.72	0.259	65.6	329.3	-6.9	0.210
4-3830	4-5210	0.379	111.5	44.2	6.27	1.312	81.1	0.711	3.325	21.5	191.6	---	5.690	-5.44	0.262	64.7	329.8	-7.6	0.212
4-3830	4-5230	0.382	113.8	47.4	7.27	1.313	81.5	0.712	3.337	20.5	192.1	---	5.711	-6.43	0.264	63.8	330.4	-8.6	0.215
4-3830	4-5250	0.391	116.6	52.0	8.71	1.313	81.9	0.712	3.349	19.5	192.6	---	5.732	-7.85	0.267	63.0	331.2	-10.1	0.218
4-3830	4-5270	0.410	120.3	58.7	10.97	1.314	82.3	0.712	3.361	18.5	193.1	---	5.754	-10.10	0.269	62.2	332.1	-12.3	0.223
4-3830	4-5290	0.455	126.7	69.0	15.02	1.314	82.8	0.712	3.373	17.4	193.6	---	5.776	-14.14	0.272	61.4	333.4	-16.0	0.231
4-3830	4-5310	0.589	169.6	85.3	24.21	1.314	83.2	0.713	3.385	16.4	194.1	---	5.798	-23.32	0.274	60.6	336.1	-23.1	0.254
4-3830	4-5330	1.151	305.5	59.3	57.22	1.315	83.5	0.713	3.397	15.7	194.6	---	5.821	-56.31	0.277	59.9	345.9	-33.1	0.373
4-3830	4-5350	0.929	71.4	-60.8	-44.36	1.315	84.3	0.713	3.410	13.7	195.0	---	5.843	45.28	0.279	59.3	340.3	30.0	0.332
4-3830	4-5370	0.513	104.4	-37.3	-19.75	1.316	84.7	0.714	3.422	12.8	195.5	---	5.866	20.68	0.282	58.6	335.8	18.4	0.253

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3830	4-5390	0.406	113.0	-21.6	-12.12	1.316	85.1	0.715	3.435	11.8	195.9	---	5.890	13.06	0.285	58.0	335.6	11.9	0.239
4-3830	4-5410	0.365	117.7	-12.0	-8.55	1.316	85.6	0.715	3.448	10.7	196.3	---	5.914	9.51	0.287	57.3	336.2	8.5	0.236
4-3830	4-5430	0.345	121.3	-5.8	-6.50	1.317	86.0	0.716	3.461	9.5	196.7	---	5.939	7.47	0.290	56.7	337.0	6.5	0.236
4-3840	4-4200	0.680	90.8	25.3	0.97	1.444	65.5	1.04717.388		47.9	131.0	---	---	-0.76	0.656	158.4	354.2	-0.6	0.622
4-3840	4-4240	0.658	87.8	25.4	1.01	1.407	65.1	0.96221.217		50.9	137.2	---	---	-0.76	0.570	155.8	353.8	-0.7	0.539
4-3840	4-4260	0.650	86.6	25.4	1.03	1.393	64.9	0.93011.457		52.2	140.0	---	---	-0.76	0.533	154.3	353.6	-0.7	0.504
4-3840	4-4280	0.643	85.6	25.4	1.05	1.381	64.8	0.903	8.248	53.3	142.7	---	---	-0.76	0.500	152.8	353.2	-0.7	0.472
4-3840	4-4300	0.637	84.7	25.4	1.07	1.370	64.7	0.881	6.663	54.3	145.2	---	---	-0.76	0.470	151.2	352.8	-0.8	0.444
4-3840	4-4320	0.631	84.0	25.5	1.09	1.361	64.7	0.862	5.724	55.1	147.5	---	---	-0.76	0.442	149.5	352.4	-0.8	0.418
4-3840	4-4340	0.626	83.4	25.5	1.11	1.353	64.6	0.846	5.109	55.8	149.8	---	---	-0.76	0.418	147.7	351.9	-0.9	0.394
4-3840	4-4360	0.622	82.9	25.5	1.14	1.347	64.6	0.832	4.677	56.3	151.9	---	---	-0.76	0.395	145.8	351.3	-0.9	0.373
4-3840	4-4380	0.617	82.5	25.5	1.16	1.341	64.7	0.820	4.360	56.8	153.8	---	---	-0.77	0.374	143.8	350.7	-1.0	0.353
4-3840	4-4400	0.613	82.2	25.6	1.18	1.336	64.7	0.809	4.120	57.1	155.7	---	---	-0.77	0.356	141.8	350.0	-1.0	0.335
4-3840	4-4420	0.609	82.0	25.6	1.20	1.331	64.8	0.800	3.933	57.3	157.5	---	---	-0.77	0.339	139.7	349.2	-1.1	0.319
4-3840	4-4440	0.604	81.9	25.7	1.22	1.328	64.9	0.793	3.785	57.5	159.1	---	---	-0.78	0.323	137.4	348.4	-1.2	0.304
4-3840	4-4460	0.600	81.8	25.7	1.24	1.324	65.0	0.786	3.666	57.5	160.7	---	---	-0.78	0.309	135.1	347.5	-1.3	0.291
4-3840	4-4480	0.596	81.8	25.8	1.26	1.322	65.1	0.780	3.569	57.5	162.2	---	---	-0.79	0.297	132.8	346.5	-1.3	0.279
4-3840	4-4500	0.592	81.9	25.8	1.28	1.319	65.3	0.774	3.489	57.4	163.6	---	---	-0.79	0.286	130.3	345.6	-1.4	0.268
4-3840	4-4520	0.588	82.0	25.9	1.30	1.317	65.5	0.769	3.424	57.2	164.9	---	---	-0.80	0.275	127.8	344.5	-1.5	0.258
4-3840	4-4540	0.583	82.2	26.0	1.33	1.315	65.7	0.765	3.370	57.0	166.2	---	---	-0.80	0.266	125.3	343.5	-1.6	0.249
4-3840	4-4560	0.579	82.4	26.1	1.35	1.314	65.9	0.761	3.324	56.7	167.5	---	---	-0.81	0.258	122.7	342.4	-1.7	0.241
4-3840	4-4580	0.575	82.6	26.1	1.37	1.313	66.1	0.757	3.287	56.3	168.6	---	---	-0.82	0.251	120.1	341.3	-1.7	0.234
4-3840	4-4600	0.570	82.9	26.2	1.40	1.311	66.3	0.754	3.256	55.9	169.7	---	---	-0.83	0.245	117.5	340.2	-1.8	0.228
4-3840	4-4620	0.565	83.3	26.3	1.42	1.311	66.5	0.751	3.230	55.5	170.8	---	---	-0.84	0.240	114.9	339.0	-1.9	0.222
4-3840	4-4640	0.561	83.6	26.4	1.45	1.310	66.8	0.749	3.209	55.0	171.9	---	---	-0.85	0.236	112.3	337.9	-2.0	0.217
4-3840	4-4660	0.556	84.0	26.5	1.47	1.309	67.0	0.746	3.192	54.5	172.9	---	---	-0.86	0.232	109.7	336.8	-2.1	0.213
4-3840	4-4680	0.551	84.5	26.6	1.50	1.309	67.3	0.744	3.178	53.9	173.8	---	---	-0.88	0.229	107.1	335.8	-2.2	0.209
4-3840	4-4700	0.546	84.9	26.7	1.53	1.308	67.6	0.742	3.168	53.4	174.7	---	---	-0.89	0.226	104.6	334.8	-2.3	0.206
4-3840	4-4720	0.542	85.4	26.9	1.55	1.308	67.9	0.740	3.160	52.7	175.6	---	---	-0.90	0.224	102.1	333.8	-2.3	0.204
4-3840	4-4740	0.537	86.0	27.0	1.58	1.308	68.2	0.738	3.154	52.1	176.5	---	---	-0.92	0.223	99.7	332.8	-2.4	0.201
4-3840	4-4760	0.531	86.5	27.1	1.61	1.308	68.5	0.737	3.150	51.4	177.3	---	---	-0.94	0.222	97.4	332.0	-2.5	0.200
4-3840	4-4780	0.526	87.1	27.2	1.64	1.307	68.8	0.735	3.148	50.7	178.1	---	---	-0.96	0.221	95.1	331.1	-2.5	0.198
4-3840	4-4800	0.521	87.7	27.4	1.68	1.307	69.1	0.734	3.147	50.0	178.9	---	---	-0.98	0.221	92.9	330.4	-2.6	0.197
4-3840	4-4820	0.516	88.4	27.5	1.71	1.307	69.4	0.733	3.148	49.3	179.7	---	---	-1.00	0.221	90.8	329.7	-2.7	0.196
4-3840	4-4840	0.511	89.1	27.6	1.74	1.308	69.8	0.731	3.151	48.5	180.4	---	5.455	-1.02	0.222	88.8	329.1	-2.7	0.196
4-3840	4-4860	0.505	89.8	27.8	1.78	1.308	70.1	0.730	3.154	47.7	181.2	---	5.457	-1.05	0.223	86.8	328.5	-2.8	0.196
4-3840	4-4880	0.500	90.5	27.9	1.82	1.308	70.4	0.729	3.158	46.9	181.9	---	5.461	-1.07	0.224	85.0	328.0	-2.8	0.196
4-3840	4-4900	0.495	91.3	28.1	1.86	1.308	70.8	0.728	3.163	46.1	182.6	---	5.467	-1.10	0.225	83.2	327.6	-2.9	0.196
4-3840	4-4920	0.489	92.1	28.3	1.91	1.308	71.1	0.727	3.169	45.2	183.2	---	5.475	-1.14	0.227	81.5	327.3	-3.0	0.196
4-3840	4-4940	0.484	92.9	28.4	1.95	1.309	71.5	0.727	3.176	44.4	183.9	---	5.484	-1.17	0.228	79.8	327.0	-3.0	0.197
4-3840	4-4960	0.478	93.7	28.6	2.00	1.309	71.9	0.726	3.183	43.5	184.5	---	5.494	-1.21	0.230	78.3	326.8	-3.1	0.198
4-3840	4-4980	0.473	94.6	28.8	2.05	1.309	72.2	0.725	3.191	42.6	185.2	---	5.506	-1.25	0.232	76.8	326.7	-3.1	0.198
4-3840	4-5000	0.468	95.5	29.0	2.11	1.309	72.6	0.725	3.200	41.7	185.8	---	5.518	-1.29	0.234	75.4	326.6	-3.2	0.199
4-3840	4-5020	0.462	96.5	29.2	2.17	1.310	73.0	0.724	3.209	40.8	186.4	---	5.532	-1.34	0.236	74.0	326.6	-3.2	0.201
4-3840	4-5040	0.457	97.5	29.4	2.23	1.310	73.4	0.723	3.218	39.9	187.0	---	5.546	-1.40	0.238	72.7	326.7	-3.3	0.202
4-3840	4-5060	0.451	98.5	29.7	2.31	1.310	73.8	0.723	3.228	38.9	187.5	---	5.562	-1.46	0.241	71.5	326.8	-3.3	0.203
4-3840	4-5080	0.446	99.6	29.9	2.38	1.311	74.2	0.722	3.239	38.0	188.1	---	5.578	-1.52	0.243	70.3	327.0	-3.4	0.204
4-3840	4-5100	0.440	100.7	30.2	2.47	1.311	74.6	0.722	3.249	37.0	188.7	---	5.595	-1.60	0.246	69.2	327.2	-3.4	0.206
4-3840	4-5120	0.435	101.8	30.5	2.56	1.312	75.0	0.722	3.260	36.1	189.2	---	5.613	-1.68	0.248	68.1	327.5	-3.5	0.207
4-3840	4-5140	0.430	103.0	30.8	2.67	1.312	75.4	0.721	3.271	35.1	189.7	---	5.631	-1.78	0.251	67.1	327.8	-3.6	0.209
4-3840	4-5160	0.425	104.2	31.2	2.78	1.312	75.8	0.721	3.283	34.1	190.3	---	5.650	-1.88	0.253	66.1	328.2	-3.7	0.210
4-3840	4-5180	0.420	105.5	31.6	2.92	1.313	76.2	0.721	3.294	33.1	190.8	---	5.669	-2.00	0.256	65.2	328.7	-3.8	0.212
4-3840	4-5200	0.415	106.9	32.1	3.07	1.313	76.6	0.721	3.306	32.0	191.3	---	5.689	-2.15	0.258	64.3	329.2	-3.9	0.214
4-3840	4-5220	0.410	108.3	32.6	3.24	1.314	77.1	0.720	3.318	31.0	191.8	---	5.709	-2.31	0.261	63.4	329.7	-4.1	0.216
4-3840	4-5240	0.405	109.7	33.3	3.45	1.314	77.5	0.720	3.331	30.0	192.3	---	5.730	-2.50	0.264	62.6	330.3	-4.2	0.217
4-3840	4-5260	0.401	111.3	34.0	3.69	1.315	77.9	0.720	3.343	28.9	192.8	---	5.751	-2.73	0.266	61.8	330.9	-4.4	0.219
4-3840	4-5280	0.397	112.9	35.0	3.98	1.315	78.4	0.720	3.356	27.9	193.3	---	5.773	-3.01	0.269	61.1	331.5	-4.7	0.221
4-3840	4-5300	0.393	114.6	36.1	4.34	1.315	78.8	0.720	3.368	26.8	193.7	---	5.795	-3.36	0.271	60.3	332.2	-5.0	0.223
4-3840	4-5320	0.390	116.5	37.5	4.79	1.316	79.3	0.720	3.381	25.7	194.2	---	5.817	-3.80	0.274	59.7	333.0	-5.4	0.225
4-3840	4-5340	0.389	118.5	39.4	5.38	1.316	79.7	0.720	3.394	24.6	194.7	---	5.839	-4.39	0.277	59.0	333.8	-5.9	0.227
4-3840	4-5360	0.389	120.8	42.0	6.19	1.317	80.2	0.721	3.407	23.5	195.1	---	5.862	-5.18	0.279	58.3	334.6	-6.7	0.230
4-3840	4-5380	0.393	123.6	45.6	7.36	1.317	80.6	0.721	3.420	22.4	195.5	---	5.886	-6.34	0.282	57.7	335.5	-7.8	0.232
4-3840	4-5400	0.404	127.1	51.2	9.20	1.318	81.1	0.721	3.434	21.3	196.0	---	5.909	-8.17	0.285	57.1	336.6	-9.5	0.236
4-3840	4-5420	0.435	132.6	60.2	12.53	1.318	81.5	0.721	3.447	20.2	196.4	---	5.933	-11.49	0.287	56.5	338.0	-12.5	0.242
4-3840	4-5440	0.536	149.2	76.5	20.28	1.318	82.0	0.721	3.460	19.1	196.8	---	5.957	-19.24	0.290	56.0	340.4	-18.9	0.259
4-3850	4-4210	0.781	90.2	25.0	1.02	1.433	58.7	1.01840.839		62.0	135.7	---	---	-0.58	0.630	159.1	352.9	-0.6	0.607
4-3850	4-4230	0.769	89.1	25.1	1.03	1.415	58.7	0.97934.606		63.4	138.8	---	---	-0.58	0.586	157.8	352.6	-0.6	0.565
4-3850	4-4250	0.758	88.1	25.1	1.05	1.399	58.6	0.94813.596		64.7	141.6	---	---	-0.58	0.546	156.4	352.3	-0.6	0.527
4-3850	4-4270	0.749	87.3	25.1	1.06	1.385	58.6	0.922	9.003	65.8	144.3	---	---	-0.57	0.510	154.9	351.9	-0.7	0.493
4-3850	4-4290	0.741	86.6	25.1	1.08	1.374	58.6	0.900	7.004	66.8	146.8	---	---	-0.57	0.478	153.3	351.5	-0.7	0.463
4-3850	4-4310	0.733	86.0	25.1	1.10	1.364	58.6	0.881	5.894	67.5	149.1	---	---	-0.57	0.448	151.7	351.0	-0.8	0.435
4-3850	4-4330	0.727	85.6	25.2	1.11	1.356	58.7	0.866	5.194	68.2	151.3	---	---	-0.56	0.422	149.9	350.5	-0.8	0.410
4-3850	4-4350	0.720	85.2	25.2	1.13	1.348	58.8	0.852	4.715	68.7	153.3	---	---	-0.56	0.397	148.1	349.9	-0.8	0.388
4-3850	4-4370	0.714	84.9	25.2	1.14	1.342	58.9	0.841	4.371	69.0	155.2	---	---	-0.56	0.375	146.1	349.2	-0.9	0.367
4-3850	4-4390	0.709	84.8	25.2	1.16	1.337	59.0	0.831	4.113	69.3	157.0	---	---	-0.56	0.355	144.1	348.4	-1.0	0.349
4-3850	4-4410	0.703	84.6	25.3	1.17	1.332	59.1	0.822	3.915	69.4	158.7	---	---	-0.56	0.337	141.9	347.6	-1.0	0.332
4-3850	4-4430	0.698	84.6	25.3	1.19	1.328	59.3	0.814	3.759	69.5	160.3	---	---	-0.56	0.321	139.7	346.8	-1.1	0.317
4-3850	4-4450	0.693	84.6	25.3	1.20	1.325	59.5	0.808	3.635	69.5	161.8	---	---	-0.56	0.306	137.3	345.9	-1.1	0.303
4-3850	4-4470	0.687	84.7	25.4	1.22	1.322	59.7	0.802	3.534	69.4	163.2	---	---	-0.56	0.292	134.9	344.9	-1.2	0.290
4-3850	4-4490	0.682	84.8	25.4	1.23	1.319	59.9	0.796	3.453	69.2	164.5	---	---	-0.56	0.280	132.4	343.9	-1.3	0.279

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3850	4-4510	0.677	84.9	25.5	1.25	1.317	60.1	0.791	3.386	68.9	165.8	---	---	-0.56	0.270	129.8	342.9	-1.3	0.269
4-3850	4-4530	0.672	85.1	25.5	1.26	1.315	60.3	0.787	3.330	68.6	167.0	---	---	-0.57	0.260	127.2	341.9	-1.4	0.259
4-3850	4-4550	0.666	85.3	25.6	1.28	1.314	60.6	0.783	3.285	68.3	168.2	---	---	-0.57	0.251	124.5	340.8	-1.5	0.251
4-3850	4-4570	0.661	85.6	25.6	1.29	1.312	60.8	0.779	3.247	67.9	169.3	---	---	-0.57	0.244	121.8	339.7	-1.6	0.244
4-3850	4-4590	0.656	85.9	25.7	1.31	1.311	61.1	0.776	3.216	67.4	170.3	---	---	-0.58	0.238	119.0	338.6	-1.6	0.237
4-3850	4-4610	0.650	86.2	25.7	1.32	1.310	61.4	0.773	3.190	66.9	171.4	---	---	-0.58	0.232	116.2	337.5	-1.7	0.232
4-3850	4-4630	0.645	86.6	25.8	1.34	1.309	61.7	0.770	3.170	66.4	172.3	---	---	-0.58	0.227	113.5	336.5	-1.8	0.227
4-3850	4-4650	0.639	87.0	25.9	1.36	1.309	62.0	0.768	3.153	65.8	173.3	---	---	-0.59	0.223	110.7	335.4	-1.8	0.222
4-3850	4-4670	0.634	87.4	25.9	1.37	1.308	62.3	0.765	3.140	65.2	174.2	---	---	-0.59	0.220	108.0	334.4	-1.9	0.218
4-3850	4-4690	0.628	87.8	26.0	1.39	1.308	62.6	0.763	3.129	64.6	175.1	---	---	-0.60	0.218	105.3	333.4	-2.0	0.215
4-3850	4-4710	0.622	88.3	26.1	1.41	1.308	62.9	0.761	3.122	63.9	175.9	---	---	-0.60	0.216	102.7	332.5	-2.0	0.212
4-3850	4-4730	0.617	88.8	26.1	1.42	1.307	63.2	0.759	3.117	63.2	176.7	---	---	-0.61	0.214	100.2	331.6	-2.1	0.210
4-3850	4-4750	0.611	89.3	26.2	1.44	1.307	63.6	0.757	3.113	62.5	177.5	---	---	-0.62	0.213	97.7	330.8	-2.1	0.208
4-3850	4-4770	0.605	89.8	26.3	1.46	1.307	63.9	0.755	3.112	61.7	178.3	---	---	-0.63	0.213	95.3	330.0	-2.2	0.207
4-3850	4-4790	0.599	90.4	26.3	1.48	1.307	64.2	0.753	3.112	61.0	179.0	---	---	-0.64	0.213	93.0	329.3	-2.2	0.205
4-3850	4-4810	0.593	90.9	26.4	1.50	1.307	64.6	0.752	3.114	60.2	179.8	---	---	-0.64	0.213	90.7	328.7	-2.3	0.204
4-3850	4-4830	0.587	91.5	26.5	1.52	1.307	64.9	0.750	3.116	59.4	180.5	---	5.455	-0.65	0.214	88.6	328.1	-2.3	0.204
4-3850	4-4850	0.581	92.2	26.6	1.54	1.308	65.3	0.749	3.120	58.6	181.2	---	5.458	-0.67	0.215	86.5	327.6	-2.3	0.203
4-3850	4-4870	0.575	92.8	26.7	1.56	1.308	65.7	0.748	3.125	57.7	181.8	---	5.462	-0.68	0.216	84.6	327.1	-2.4	0.203
4-3850	4-4890	0.569	93.5	26.7	1.58	1.308	66.0	0.746	3.131	56.9	182.5	---	5.468	-0.69	0.218	82.7	326.8	-2.4	0.203
4-3850	4-4910	0.563	94.1	26.8	1.60	1.308	66.4	0.745	3.138	56.0	183.1	---	5.476	-0.70	0.219	80.9	326.5	-2.4	0.204
4-3850	4-4930	0.557	94.8	26.9	1.63	1.309	66.8	0.744	3.145	55.1	183.8	---	5.485	-0.72	0.221	79.3	326.3	-2.5	0.204
4-3850	4-4950	0.550	95.6	27.0	1.65	1.309	67.2	0.743	3.153	54.2	184.4	---	5.496	-0.73	0.223	77.6	326.1	-2.5	0.205
4-3850	4-4970	0.544	96.3	27.1	1.68	1.309	67.6	0.742	3.162	53.3	185.0	---	5.507	-0.75	0.225	76.1	326.0	-2.5	0.205
4-3850	4-4990	0.538	97.1	27.1	1.70	1.310	68.0	0.741	3.171	52.4	185.6	---	5.520	-0.77	0.228	74.7	326.0	-2.5	0.206
4-3850	4-5010	0.532	97.9	27.2	1.73	1.310	68.4	0.740	3.181	51.5	186.2	---	5.534	-0.79	0.230	73.3	326.0	-2.6	0.207
4-3850	4-5030	0.525	98.7	27.3	1.76	1.310	68.8	0.739	3.191	50.5	186.7	---	5.549	-0.81	0.233	72.0	326.1	-2.6	0.208
4-3850	4-5050	0.519	99.6	27.4	1.80	1.311	69.2	0.738	3.201	49.6	187.3	---	5.564	-0.83	0.235	70.7	326.2	-2.6	0.209
4-3850	4-5070	0.513	100.4	27.5	1.83	1.311	69.6	0.737	3.212	48.6	187.8	---	5.580	-0.86	0.238	69.5	326.4	-2.6	0.210
4-3850	4-5090	0.507	101.3	27.6	1.87	1.311	70.0	0.737	3.223	47.6	188.4	---	5.597	-0.89	0.240	68.4	326.7	-2.6	0.212
4-3850	4-5110	0.500	102.3	27.7	1.90	1.312	70.4	0.736	3.235	46.6	188.9	---	5.615	-0.92	0.243	67.3	327.0	-2.6	0.213
4-3850	4-5130	0.494	103.2	27.8	1.94	1.312	70.9	0.735	3.246	45.6	189.4	---	5.633	-0.95	0.246	66.3	327.4	-2.7	0.214
4-3850	4-5150	0.488	104.2	27.9	1.99	1.313	71.3	0.735	3.258	44.6	189.9	---	5.652	-0.99	0.248	65.4	327.8	-2.7	0.216
4-3850	4-5170	0.481	105.2	28.0	2.04	1.313	71.7	0.734	3.271	43.6	190.4	---	5.671	-1.03	0.251	64.4	328.2	-2.7	0.217
4-3850	4-5190	0.475	106.2	28.1	2.09	1.314	72.1	0.733	3.283	42.6	190.9	---	5.691	-1.07	0.254	63.5	328.7	-2.7	0.219
4-3850	4-5210	0.469	107.3	28.3	2.15	1.314	72.6	0.733	3.296	41.5	191.4	---	5.711	-1.12	0.257	62.7	329.2	-2.7	0.220
4-3850	4-5230	0.463	108.4	28.4	2.21	1.315	73.0	0.732	3.309	40.5	191.9	---	5.732	-1.17	0.259	61.9	329.8	-2.8	0.222
4-3850	4-5250	0.457	109.6	28.6	2.28	1.315	73.5	0.732	3.321	39.4	192.4	---	5.753	-1.23	0.262	61.1	330.4	-2.8	0.223
4-3850	4-5270	0.450	110.8	28.8	2.35	1.315	73.9	0.732	3.335	38.4	192.9	---	5.774	-1.30	0.265	60.4	331.0	-2.8	0.225
4-3850	4-5290	0.444	112.0	29.0	2.44	1.316	74.4	0.731	3.348	37.3	193.3	---	5.796	-1.38	0.268	59.7	331.7	-2.9	0.227
4-3850	4-5310	0.438	113.3	29.2	2.54	1.316	74.8	0.731	3.361	36.2	193.8	---	5.818	-1.47	0.271	59.0	332.4	-2.9	0.228
4-3850	4-5330	0.433	114.6	29.4	2.65	1.317	75.3	0.731	3.375	35.1	194.2	---	5.840	-1.57	0.273	58.4	333.2	-3.0	0.230
4-3850	4-5350	0.427	116.0	29.8	2.78	1.317	75.7	0.730	3.388	34.0	194.7	---	5.862	-1.69	0.276	57.8	333.9	-3.1	0.232
4-3850	4-5370	0.421	117.5	30.1	2.93	1.318	76.2	0.730	3.402	32.9	195.1	---	5.885	-1.84	0.279	57.2	334.7	-3.2	0.234
4-3850	4-5390	0.416	119.0	30.6	3.11	1.318	76.7	0.730	3.416	31.8	195.6	---	5.908	-2.01	0.282	56.6	335.6	-3.3	0.235
4-3850	4-5410	0.411	120.6	31.2	3.32	1.319	77.1	0.730	3.429	30.7	196.0	---	5.932	-2.22	0.284	56.0	336.5	-3.4	0.237
4-3850	4-5430	0.406	122.3	31.9	3.59	1.319	77.6	0.730	3.443	29.5	196.4	---	5.955	-2.47	0.287	55.5	337.4	-3.6	0.239
4-3850	4-5450	0.401	124.1	32.8	3.92	1.319	78.1	0.729	3.457	28.4	196.8	---	5.979	-2.80	0.290	55.0	338.3	-3.9	0.241
4-3860	4-4200	0.909	92.4	24.8	1.08	1.444	51.7	1.03218.897		75.3	138.1	---	---	-0.39	0.652	161.4	351.5	-0.6	0.641
4-3860	4-4220	0.892	91.4	24.8	1.09	1.423	51.7	0.99534.207		76.7	141.1	---	---	-0.38	0.604	160.2	351.2	-0.6	0.595
4-3860	4-4240	0.878	90.6	24.8	1.11	1.405	51.8	0.96517.375		78.0	143.9	---	---	-0.38	0.560	158.9	350.8	-0.6	0.554
4-3860	4-4260	0.866	90.0	24.9	1.12	1.390	51.9	0.94110.065		79.0	146.5	---	---	-0.37	0.522	157.4	350.4	-0.7	0.518
4-3860	4-4280	0.855	89.5	24.9	1.13	1.378	52.1	0.920 7.439		79.9	148.9	---	---	-0.37	0.486	155.9	349.9	-0.7	0.485
4-3860	4-4300	0.845	89.0	24.9	1.14	1.367	52.2	0.903 6.097		80.5	151.2	---	---	-0.36	0.455	154.3	349.4	-0.7	0.456
4-3860	4-4320	0.836	88.7	24.9	1.15	1.358	52.4	0.888 5.290		81.1	153.2	---	---	-0.36	0.426	152.6	348.8	-0.8	0.430
4-3860	4-4340	0.828	88.5	24.9	1.16	1.350	52.5	0.875 4.755		81.5	155.1	---	---	-0.36	0.400	150.8	348.2	-0.8	0.406
4-3860	4-4360	0.820	88.3	25.0	1.17	1.343	52.7	0.864 4.378		81.7	156.9	---	---	-0.36	0.376	148.9	347.5	-0.8	0.384
4-3860	4-4380	0.813	88.2	25.0	1.18	1.337	52.9	0.855 4.101		81.9	158.6	---	---	-0.35	0.355	146.8	346.7	-0.9	0.365
4-3860	4-4400	0.806	88.2	25.0	1.19	1.332	53.2	0.847 3.890		81.9	160.2	---	---	-0.35	0.335	144.7	345.9	-0.9	0.347
4-3860	4-4420	0.799	88.2	25.0	1.20	1.328	53.4	0.839 3.727		81.9	161.7	---	---	-0.35	0.317	142.4	345.0	-1.0	0.331
4-3860	4-4440	0.792	88.3	25.1	1.21	1.325	53.6	0.833 3.597		81.7	163.1	---	---	-0.35	0.301	140.0	344.1	-1.1	0.317
4-3860	4-4460	0.786	88.4	25.1	1.22	1.321	53.9	0.827 3.493		81.5	164.4	---	---	-0.35	0.287	137.6	343.1	-1.1	0.304
4-3860	4-4480	0.779	88.5	25.1	1.23	1.319	54.2	0.822 3.409		81.2	165.6	---	---	-0.35	0.274	135.0	342.1	-1.2	0.292
4-3860	4-4500	0.773	88.7	25.2	1.23	1.317	54.5	0.817 3.341		80.9	166.8	---	---	-0.34	0.262	132.3	341.1	-1.2	0.281
4-3860	4-4520	0.766	89.0	25.2	1.24	1.315	54.7	0.813 3.285		80.5	168.0	---	---	-0.34	0.252	129.5	340.0	-1.3	0.272
4-3860	4-4540	0.760	89.2	25.2	1.25	1.313	55.0	0.809 3.239		80.1	169.0	---	---	-0.34	0.243	126.7	339.0	-1.4	0.263
4-3860	4-4560	0.754	89.5	25.3	1.26	1.312	55.4	0.805 3.201		79.6	170.1	---	---	-0.34	0.235	123.8	337.9	-1.4	0.256
4-3860	4-4580	0.747	89.8	25.3	1.27	1.310	55.7	0.801 3.170		79.1	171.1	---	---	-0.34	0.228	120.9	336.9	-1.5	0.249
4-3860	4-4600	0.741	90.2	25.3	1.28	1.309	56.0	0.798 3.144		78.5	172.0	---	---	-0.34	0.222	117.9	335.8	-1.5	0.243
4-3860	4-4620	0.735	90.5	25.4	1.29	1.309	56.3	0.795 3.124		77.9	172.9	---	---	-0.35	0.217	115.0	334.8	-1.6	0.238
4-3860	4-4640	0.728	90.9	25.4	1.30	1.308	56.7	0.792 3.108		77.2	173.8	---	---	-0.35	0.213	112.0	333.8	-1.6	0.233
4-3860	4-4660	0.722	91.3	25.4	1.31	1.307	57.0	0.790 3.095		76.6	174.6	---	---	-0.35	0.210	109.1	332.8	-1.7	0.229
4-3860	4-4680	0.715	91.7	25.5	1.32	1.307	57.4	0.787 3.086		75.9	175.4	---	---	-0.35	0.207	106.2	331.9	-1.8	0.226
4-3860	4-4700	0.709	92.2	25.5	1.33	1.307	57.7	0.785 3.079		75.2	176.2	---	---	-0.35	0.205	103.4	331.0	-1.8	0.223
4-3860	4-4720	0.702	92.6	25.5	1.34	1.307	58.1	0.783 3.074		74.4	177.0	---	---	-0.35	0.204	100.6	330.2	-1.8	0.220
4-3860	4-4740	0.696	93.1	25.6	1.35	1.307	58.5	0.781 3.071		73.6	177.7	---	---	-0.35	0.203	97.9	329.4	-1.9	0.218
4-3860	4-4760	0.689	93.6	25.6	1.36	1.306	58.8	0.778 3.071		72.9	178.5	---	---	-0.36	0.203	95.4	328.7	-1.9	0.217
4-3860	4-4780	0.683	94.1	25.6	1.37	1.307	59.2	0.776 3.072		72.0	179.2	---	---	-0.36	0.203	92.9	328.1	-2.0	0.215
4-3860	4-4800	0.676	94.6	25.7	1.38	1.307	59.6	0.775 3.074		71.2	179.9	---	---	-0.36	0.203	90.5	327.5	-2.0	0.214
4-3860	4-4820	0.669	95.2	25.7	1.39	1.307	60.0	0.773 3.077		70.4	180.5	---	5.455	-0.37	0.204	88.2	327.0	-2.0	0.214

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3860	4-4840	0.663	95.8	25.7	1.40	1.307	60.4	0.771	3.082	69.5	181.2	---	5.458	-0.37	0.205	86.1	326.6	-2.0	0.213
4-3860	4-4860	0.656	96.3	25.8	1.41	1.307	60.8	0.769	3.088	68.6	181.8	---	5.463	-0.37	0.207	84.0	326.2	-2.1	0.213
4-3860	4-4880	0.649	96.9	25.8	1.42	1.307	61.2	0.768	3.094	67.8	182.4	---	5.470	-0.38	0.209	82.0	325.9	-2.1	0.213
4-3860	4-4900	0.642	97.5	25.8	1.43	1.308	61.6	0.766	3.101	66.9	183.0	---	5.478	-0.38	0.211	80.2	325.6	-2.1	0.213
4-3860	4-4920	0.636	98.2	25.9	1.44	1.308	62.0	0.765	3.109	65.9	183.6	---	5.487	-0.39	0.213	78.4	325.5	-2.1	0.213
4-3860	4-4940	0.629	98.8	25.9	1.45	1.308	62.4	0.763	3.118	65.0	184.2	---	5.498	-0.39	0.215	76.7	325.3	-2.1	0.214
4-3860	4-4960	0.622	99.5	25.9	1.46	1.309	62.8	0.762	3.127	64.1	184.8	---	5.510	-0.40	0.217	75.1	325.3	-2.1	0.214
4-3860	4-4980	0.615	100.1	25.9	1.48	1.309	63.2	0.761	3.137	63.1	185.4	---	5.523	-0.41	0.220	73.7	325.3	-2.1	0.215
4-3860	4-5000	0.608	100.8	26.0	1.49	1.310	63.6	0.759	3.147	62.2	185.9	---	5.537	-0.41	0.223	72.2	325.4	-2.2	0.216
4-3860	4-5020	0.601	101.5	26.0	1.50	1.310	64.1	0.758	3.158	61.2	186.5	---	5.552	-0.42	0.225	70.9	325.5	-2.2	0.216
4-3860	4-5040	0.594	102.3	26.0	1.52	1.310	64.5	0.757	3.169	60.2	187.0	---	5.568	-0.43	0.228	69.6	325.7	-2.2	0.217
4-3860	4-5060	0.587	103.0	26.0	1.53	1.311	64.9	0.756	3.181	59.2	187.5	---	5.584	-0.44	0.231	68.4	325.9	-2.2	0.218
4-3860	4-5080	0.580	103.8	26.0	1.55	1.311	65.3	0.755	3.193	58.2	188.1	---	5.602	-0.45	0.234	67.3	326.2	-2.1	0.220
4-3860	4-5100	0.573	104.6	26.0	1.56	1.312	65.8	0.753	3.205	57.2	188.6	---	5.619	-0.46	0.237	66.2	326.5	-2.1	0.221
4-3860	4-5120	0.566	105.4	26.1	1.58	1.312	66.2	0.752	3.217	56.2	189.1	---	5.638	-0.47	0.240	65.2	326.9	-2.1	0.222
4-3860	4-5140	0.559	106.2	26.1	1.60	1.313	66.6	0.751	3.230	55.2	189.6	---	5.657	-0.48	0.243	64.2	327.3	-2.1	0.223
4-3860	4-5160	0.552	107.0	26.1	1.61	1.313	67.1	0.750	3.243	54.2	190.1	---	5.676	-0.49	0.246	63.3	327.7	-2.1	0.224
4-3860	4-5180	0.545	107.9	26.1	1.63	1.314	67.5	0.749	3.256	53.1	190.6	---	5.696	-0.51	0.249	62.5	328.2	-2.1	0.226
4-3860	4-5200	0.538	108.8	26.1	1.65	1.314	68.0	0.749	3.269	52.1	191.0	---	5.716	-0.52	0.251	61.6	328.8	-2.1	0.227
4-3860	4-5220	0.531	109.7	26.1	1.68	1.314	68.4	0.748	3.282	51.0	191.5	---	5.736	-0.54	0.254	60.8	329.4	-2.1	0.228
4-3860	4-5240	0.524	110.6	26.1	1.70	1.315	68.9	0.747	3.296	49.9	192.0	---	5.757	-0.56	0.257	60.1	330.0	-2.1	0.230
4-3860	4-5260	0.517	111.6	26.1	1.73	1.315	69.3	0.746	3.309	48.9	192.4	---	5.779	-0.58	0.260	59.4	330.6	-2.1	0.231
4-3860	4-5280	0.510	112.6	26.1	1.75	1.316	69.8	0.745	3.323	47.8	192.9	---	5.800	-0.60	0.263	58.7	331.3	-2.1	0.233
4-3860	4-5300	0.503	113.6	26.1	1.78	1.316	70.3	0.745	3.337	46.7	193.3	---	5.822	-0.63	0.266	58.0	332.0	-2.0	0.234
4-3860	4-5320	0.496	114.6	26.1	1.81	1.317	70.7	0.744	3.351	45.6	193.8	---	5.844	-0.65	0.269	57.4	332.7	-2.0	0.236
4-3860	4-5340	0.489	115.7	26.1	1.85	1.317	71.2	0.743	3.365	44.5	194.2	---	5.867	-0.68	0.272	56.8	333.5	-2.0	0.237
4-3860	4-5360	0.482	116.8	26.1	1.89	1.318	71.7	0.743	3.379	43.4	194.7	---	5.889	-0.72	0.275	56.3	334.3	-2.0	0.239
4-3860	4-5380	0.475	117.9	26.2	1.93	1.318	72.1	0.742	3.394	42.2	195.1	---	5.912	-0.75	0.278	55.7	335.2	-2.0	0.240
4-3860	4-5400	0.468	119.1	26.2	1.98	1.319	72.6	0.742	3.408	41.1	195.5	---	5.935	-0.80	0.281	55.2	336.0	-2.0	0.242
4-3860	4-5420	0.462	120.3	26.2	2.03	1.319	73.1	0.741	3.422	40.0	195.9	---	5.958	-0.84	0.284	54.7	336.9	-2.0	0.243
4-3860	4-5440	0.455	121.6	26.2	2.09	1.320	73.6	0.741	3.437	38.8	196.4	---	5.982	-0.90	0.286	54.2	337.8	-2.0	0.245
4-3860	4-5460	0.448	122.9	26.3	2.16	1.320	74.1	0.740	3.451	37.7	196.8	---	6.006	-0.96	0.289	53.8	338.7	-2.0	0.247
4-3870	4-4210	1.028	94.5	24.6	1.21	1.433	44.3	1.00951	.195	90.9	144.3	---	---	-0.14	0.626	163.0	349.6	-0.6	0.631
4-3870	4-4230	1.010	93.9	24.6	1.22	1.413	44.6	0.98226	.761	92.0	147.0	---	---	-0.14	0.578	161.7	349.2	-0.6	0.587
4-3870	4-4250	0.993	93.4	24.6	1.22	1.396	44.8	0.96011	.831	92.9	149.4	---	---	-0.14	0.536	160.4	348.7	-0.6	0.547
4-3870	4-4270	0.979	93.0	24.6	1.23	1.382	45.1	0.941	8.079	93.6	151.7	---	---	-0.14	0.497	159.0	348.2	-0.7	0.512
4-3870	4-4290	0.966	92.7	24.7	1.23	1.370	45.3	0.925	6.383	94.1	153.7	---	---	-0.13	0.463	157.4	347.6	-0.7	0.481
4-3870	4-4310	0.954	92.5	24.7	1.24	1.360	45.6	0.912	5.426	94.4	155.6	---	---	-0.13	0.432	155.8	347.0	-0.7	0.453
4-3870	4-4330	0.944	92.4	24.7	1.24	1.351	45.9	0.900	4.816	94.7	157.4	---	---	-0.13	0.403	154.0	346.3	-0.8	0.427
4-3870	4-4350	0.934	92.3	24.7	1.24	1.344	46.2	0.890	4.397	94.8	159.0	---	---	-0.13	0.377	152.1	345.6	-0.8	0.404
4-3870	4-4370	0.924	92.3	24.7	1.25	1.338	46.5	0.882	4.095	94.8	160.6	---	---	-0.13	0.354	150.1	344.8	-0.9	0.384
4-3870	4-4390	0.915	92.4	24.8	1.25	1.332	46.8	0.874	3.868	94.7	162.0	---	---	-0.13	0.333	148.0	343.9	-0.9	0.365
4-3870	4-4410	0.906	92.5	24.8	1.26	1.328	47.2	0.867	3.695	94.5	163.4	---	---	-0.12	0.314	145.7	343.0	-1.0	0.348
4-3870	4-4430	0.898	92.6	24.8	1.26	1.324	47.5	0.861	3.559	94.2	164.6	---	---	-0.12	0.296	143.3	342.1	-1.0	0.333
4-3870	4-4450	0.890	92.8	24.8	1.26	1.321	47.8	0.855	3.451	93.9	165.8	---	---	-0.12	0.281	140.8	341.2	-1.1	0.320
4-3870	4-4470	0.882	93.0	24.8	1.27	1.318	48.2	0.850	3.364	93.5	167.0	---	---	-0.12	0.267	138.2	340.2	-1.1	0.307
4-3870	4-4490	0.874	93.2	24.8	1.27	1.315	48.5	0.845	3.293	93.1	168.0	---	---	-0.12	0.254	135.4	339.1	-1.2	0.296
4-3870	4-4510	0.867	93.5	24.9	1.27	1.313	48.9	0.841	3.236	92.6	169.1	---	---	-0.12	0.243	132.5	338.1	-1.2	0.286
4-3870	4-4530	0.859	93.7	24.9	1.28	1.312	49.2	0.837	3.189	92.0	170.0	---	---	-0.12	0.233	129.5	337.1	-1.3	0.278
4-3870	4-4550	0.852	94.1	24.9	1.28	1.310	49.6	0.833	3.151	91.4	171.0	---	---	-0.12	0.224	126.5	336.1	-1.3	0.270
4-3870	4-4570	0.844	94.4	24.9	1.28	1.309	50.0	0.830	3.120	90.8	171.9	---	---	-0.12	0.217	123.3	335.0	-1.4	0.263
4-3870	4-4590	0.837	94.7	24.9	1.29	1.308	50.4	0.826	3.095	90.1	172.7	---	---	-0.12	0.210	120.1	334.0	-1.4	0.257
4-3870	4-4610	0.829	95.1	24.9	1.29	1.307	50.8	0.823	3.075	89.5	173.6	---	---	-0.12	0.205	116.9	333.1	-1.5	0.251
4-3870	4-4630	0.822	95.5	24.9	1.29	1.306	51.1	0.820	3.059	88.7	174.4	---	---	-0.12	0.201	113.7	332.1	-1.5	0.247
4-3870	4-4650	0.815	95.9	25.0	1.29	1.306	51.5	0.817	3.047	88.0	175.1	---	---	-0.12	0.197	110.5	331.2	-1.6	0.242
4-3870	4-4670	0.807	96.3	25.0	1.30	1.306	51.9	0.815	3.038	87.2	175.9	---	---	-0.12	0.194	107.3	330.4	-1.6	0.239
4-3870	4-4690	0.800	96.8	25.0	1.30	1.305	52.3	0.812	3.031	86.5	176.6	---	---	-0.12	0.192	104.2	329.5	-1.6	0.236
4-3870	4-4710	0.793	97.2	25.0	1.30	1.305	52.7	0.809	3.027	85.7	177.3	---	---	-0.12	0.191	101.2	328.8	-1.7	0.233
4-3870	4-4730	0.786	97.7	25.0	1.31	1.305	53.2	0.807	3.026	84.8	178.0	---	---	-0.12	0.190	98.3	328.1	-1.7	0.231
4-3870	4-4750	0.778	98.2	25.0	1.31	1.305	53.6	0.805	3.025	84.0	178.7	---	---	-0.12	0.190	95.5	327.5	-1.7	0.229
4-3870	4-4770	0.771	98.7	25.0	1.31	1.305	54.0	0.802	3.027	83.1	179.3	---	---	-0.12	0.191	92.8	326.9	-1.8	0.228
4-3870	4-4790	0.764	99.2	25.0	1.32	1.305	54.4	0.800	3.030	82.3	180.0	---	---	-0.12	0.191	90.2	326.4	-1.8	0.226
4-3870	4-4810	0.758	99.7	25.0	1.32	1.305	54.8	0.798	3.034	81.4	180.6	---	5.456	-0.12	0.193	87.7	325.9	-1.8	0.225
4-3870	4-4830	0.749	100.2	25.0	1.32	1.306	55.3	0.796	3.039	80.5	181.2	---	5.459	-0.12	0.194	85.4	325.5	-1.8	0.225
4-3870	4-4850	0.741	100.7	25.0	1.33	1.306	55.7	0.794	3.046	79.6	181.8	---	5.464	-0.12	0.196	83.2	325.2	-1.9	0.224
4-3870	4-4870	0.734	101.3	25.0	1.33	1.306	56.1	0.792	3.053	78.6	182.4	---	5.471	-0.12	0.198	81.1	325.0	-1.9	0.224
4-3870	4-4890	0.727	101.9	25.0	1.33	1.307	56.5	0.790	3.061	77.7	182.9	---	5.480	-0.12	0.200	79.1	324.8	-1.9	0.224
4-3870	4-4910	0.719	102.4	25.0	1.34	1.307	57.0	0.788	3.070	76.7	183.5	---	5.490	-0.12	0.203	77.2	324.6	-1.9	0.224
4-3870	4-4930	0.712	103.0	25.0	1.34	1.307	57.4	0.787	3.079	75.8	184.1	---	5.501	-0.12	0.205	75.5	324.6	-1.9	0.224
4-3870	4-4950	0.704	103.6	25.0	1.34	1.308	57.9	0.785	3.089	74.8	184.6	---	5.514	-0.12	0.208	73.8	324.6	-1.9	0.225
4-3870	4-4970	0.697	104.2	25.0	1.35	1.308	58.3	0.783	3.099	73.8	185.1	---	5.527	-0.12	0.211	72.3	324.6	-1.9	0.225
4-3870	4-4990	0.689	104.9	24.9	1.35	1.309	58.7	0.782	3.110	72.9	185.7	---	5.542	-0.13	0.214	70.8	324.7	-1.9	0.226
4-3870	4-5010	0.682	105.5	24.9	1.35	1.309	59.2	0.780	3.122	71.9	186.2	---	5.557	-0.13	0.217	69.5	324.9	-1.9	0.227
4-3870	4-5030	0.674	106.1	24.9	1.36	1.309	59.6	0.778	3.134	70.9	186.7	---	5.573	-0.13	0.220	68.2	325.1	-1.9	0.227
4-3870	4-5050	0.667	106.8	24.9	1.36	1.310	60.1	0.777	3.146	69.8	187.2	---	5.590	-0.13	0.223	67.0	325.3	-1.9	0.228
4-3870	4-5070	0.659	107.5	24.9	1.36	1.310	60.5	0.775	3.158	68.8	187.7	---	5.607	-0.13	0.226	65.8	325.6	-1.9	0.229
4-3870	4-5090	0.651	108.2	24.8	1.37	1.311	61.0	0.774	3.171	67.8	188.2	---	5.625	-0.13	0.229	64.7	326.0	-1.8	0.230
4-3870	4-5110	0.644	108.9	24.8	1.37	1.311	61.5	0.773	3.184	66.8	188.7	---	5.644	-0.14	0.233	63.7	326.4	-1.8	0.231
4-3870	4-5130	0.636	109.6	24.8	1.38	1.312	61.9	0.771	3.197	65.7	189.2	---	5.663	-0.14	0.236	62.8	326.8	-1.8	0.232
4-3870	4-5150	0.628	110.3	24.7	1.38	1.312	62.4	0.770	3.211	64.7	189.6	---	5.682	-0.14	0.239	61.9	327.3	-1.8	0.233

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3870	4-5170	0.621	111.0	24.7	1.39	1.313	62.8	0.769	3.224	63.6	190.1	---	5.702	-0.14	0.242	61.0	327.8	-1.8	0.234
4-3870	4-5190	0.613	111.8	24.6	1.39	1.313	63.3	0.767	3.238	62.5	190.6	---	5.723	-0.15	0.245	60.2	328.4	-1.7	0.236
4-3870	4-5210	0.606	112.6	24.6	1.40	1.314	63.8	0.766	3.252	61.5	191.0	---	5.743	-0.15	0.249	59.4	329.0	-1.7	0.237
4-3870	4-5230	0.598	113.4	24.5	1.40	1.314	64.2	0.765	3.266	60.4	191.5	---	5.765	-0.15	0.252	58.7	329.6	-1.7	0.238
4-3870	4-5250	0.590	114.2	24.5	1.41	1.315	64.7	0.764	3.280	59.3	191.9	---	5.786	-0.16	0.255	58.0	330.2	-1.7	0.239
4-3870	4-5270	0.583	115.0	24.4	1.41	1.315	65.2	0.763	3.295	58.2	192.4	---	5.808	-0.16	0.258	57.3	330.9	-1.6	0.241
4-3870	4-5290	0.575	115.8	24.3	1.42	1.316	65.7	0.762	3.309	57.1	192.8	---	5.829	-0.17	0.261	56.7	331.6	-1.6	0.242
4-3870	4-5310	0.567	116.7	24.3	1.43	1.316	66.1	0.760	3.324	56.0	193.3	---	5.852	-0.17	0.264	56.1	332.4	-1.6	0.243
4-3870	4-5330	0.560	117.6	24.2	1.43	1.317	66.6	0.759	3.338	54.9	193.7	---	5.874	-0.18	0.267	55.6	333.2	-1.5	0.244
4-3870	4-5350	0.552	118.5	24.1	1.44	1.317	67.1	0.758	3.353	53.8	194.1	---	5.896	-0.18	0.270	55.0	334.0	-1.5	0.246
4-3870	4-5370	0.544	119.4	24.0	1.45	1.318	67.6	0.758	3.368	52.7	194.5	---	5.919	-0.19	0.273	54.5	334.8	-1.5	0.247
4-3870	4-5390	0.537	120.4	23.9	1.46	1.318	68.1	0.757	3.383	51.5	195.0	---	5.942	-0.19	0.276	54.0	335.7	-1.4	0.249
4-3870	4-5410	0.529	121.3	23.8	1.47	1.319	68.6	0.756	3.398	50.4	195.4	---	5.965	-0.20	0.279	53.5	336.5	-1.4	0.250
4-3870	4-5430	0.521	122.3	23.7	1.48	1.319	69.0	0.755	3.413	49.2	195.8	---	5.989	-0.21	0.282	53.1	337.4	-1.4	0.251
4-3870	4-5450	0.514	123.3	23.6	1.49	1.320	69.5	0.754	3.428	48.1	196.2	---	6.012	-0.22	0.285	52.7	338.4	-1.3	0.253
4-3870	4-5470	0.506	124.4	23.5	1.50	1.320	70.0	0.753	3.443	46.9	196.6	---	6.036	-0.23	0.288	52.3	339.3	-1.3	0.254
4-3880	4-4220	1.151	97.6	24.3	1.42	1.423	36.8	0.99697	7.582	106.7	150.8	---	---	0.17	0.601	165.0	347.5	-0.6	0.626
4-3880	4-4240	1.130	97.2	24.3	1.41	1.403	37.2	0.97715	5.554	107.4	153.0	---	---	0.16	0.554	163.8	347.0	-0.6	0.583
4-3880	4-4260	1.111	97.0	24.4	1.41	1.387	37.6	0.961	9.180	107.8	155.0	---	---	0.16	0.512	162.4	346.4	-0.7	0.545
4-3880	4-4280	1.095	96.8	24.4	1.40	1.374	38.0	0.948	6.847	108.1	156.8	---	---	0.15	0.474	161.0	345.8	-0.7	0.511
4-3880	4-4300	1.080	96.7	24.4	1.40	1.363	38.5	0.936	5.648	108.3	158.5	---	---	0.15	0.440	159.4	345.1	-0.7	0.480
4-3880	4-4320	1.066	96.7	24.4	1.39	1.353	38.9	0.926	4.925	108.3	160.0	---	---	0.15	0.409	157.8	344.4	-0.8	0.453
4-3880	4-4340	1.053	96.8	24.4	1.39	1.345	39.3	0.918	4.445	108.2	161.5	---	---	0.14	0.381	156.0	343.6	-0.8	0.429
4-3880	4-4360	1.041	96.8	24.4	1.38	1.338	39.7	0.910	4.108	108.0	162.8	---	---	0.14	0.355	154.1	342.8	-0.9	0.407
4-3880	4-4380	1.030	97.0	24.4	1.38	1.332	40.2	0.903	3.860	107.7	164.1	---	---	0.14	0.332	152.0	342.0	-0.9	0.387
4-3880	4-4400	1.019	97.1	24.4	1.37	1.327	40.6	0.896	3.672	107.3	165.2	---	---	0.14	0.311	149.8	341.1	-0.9	0.369
4-3880	4-4420	1.009	97.3	24.5	1.37	1.323	41.0	0.891	3.527	106.9	166.3	---	---	0.13	0.292	147.4	340.1	-1.0	0.353
4-3880	4-4440	0.999	97.6	24.5	1.36	1.319	41.4	0.885	3.412	106.4	167.4	---	---	0.13	0.275	144.9	339.2	-1.0	0.339
4-3880	4-4460	0.989	97.8	24.5	1.36	1.316	41.9	0.880	3.321	105.9	168.4	---	---	0.13	0.260	142.2	338.2	-1.1	0.326
4-3880	4-4480	0.980	98.1	24.5	1.36	1.314	42.3	0.876	3.247	105.3	169.3	---	---	0.13	0.246	139.3	337.2	-1.1	0.314
4-3880	4-4500	0.971	98.4	24.5	1.35	1.312	42.7	0.872	3.188	104.7	170.2	---	---	0.13	0.233	136.3	336.2	-1.2	0.304
4-3880	4-4520	0.962	98.7	24.5	1.35	1.310	43.2	0.868	3.140	104.0	171.1	---	---	0.13	0.222	133.2	335.2	-1.2	0.295
4-3880	4-4540	0.954	99.1	24.5	1.35	1.308	43.6	0.864	3.101	103.3	171.9	---	---	0.12	0.213	129.9	334.2	-1.3	0.287
4-3880	4-4560	0.945	99.4	24.5	1.34	1.307	44.1	0.860	3.070	102.6	172.7	---	---	0.12	0.205	126.6	333.2	-1.3	0.279
4-3880	4-4580	0.936	99.8	24.4	1.34	1.306	44.5	0.857	3.044	101.9	173.5	---	---	0.12	0.197	123.1	332.3	-1.4	0.273
4-3880	4-4600	0.928	100.2	24.4	1.34	1.305	44.9	0.853	3.024	101.1	174.2	---	---	0.12	0.191	119.6	331.4	-1.4	0.267
4-3880	4-4620	0.920	100.6	24.4	1.33	1.304	45.4	0.850	3.009	100.3	174.9	---	---	0.12	0.187	116.0	330.5	-1.4	0.262
4-3880	4-4640	0.911	101.0	24.4	1.33	1.304	45.8	0.847	2.997	99.5	175.6	---	---	0.12	0.183	112.5	329.7	-1.5	0.258
4-3880	4-4660	0.903	101.4	24.4	1.33	1.304	46.3	0.844	2.988	98.6	176.3	---	---	0.12	0.180	109.0	328.9	-1.5	0.254
4-3880	4-4680	0.895	101.9	24.4	1.32	1.303	46.7	0.841	2.982	97.8	177.0	---	---	0.12	0.178	105.5	328.1	-1.5	0.251
4-3880	4-4700	0.887	102.3	24.4	1.32	1.303	47.2	0.839	2.979	96.9	177.6	---	---	0.12	0.176	102.1	327.4	-1.6	0.248
4-3880	4-4720	0.879	102.8	24.4	1.32	1.303	47.7	0.836	2.977	96.0	178.2	---	---	0.12	0.176	98.8	326.8	-1.6	0.245
4-3880	4-4740	0.871	103.3	24.4	1.31	1.303	48.1	0.833	2.978	95.1	178.9	---	---	0.12	0.176	95.7	326.2	-1.6	0.243
4-3880	4-4760	0.863	103.7	24.3	1.31	1.303	48.6	0.831	2.980	94.2	179.5	---	---	0.12	0.176	92.7	325.7	-1.6	0.242
4-3880	4-4780	0.855	104.2	24.3	1.31	1.303	49.0	0.828	2.983	93.3	180.0	---	5.455	0.12	0.177	89.8	325.3	-1.7	0.240
4-3880	4-4800	0.846	104.7	24.3	1.30	1.304	49.5	0.826	2.988	92.3	180.6	---	5.456	0.12	0.179	87.1	324.9	-1.7	0.239
4-3880	4-4820	0.838	105.2	24.3	1.30	1.304	50.0	0.824	2.994	91.4	181.2	---	5.460	0.12	0.181	84.5	324.5	-1.7	0.238
4-3880	4-4840	0.830	105.8	24.2	1.30	1.304	50.4	0.821	3.001	90.4	181.7	---	5.466	0.12	0.183	82.1	324.3	-1.7	0.238
4-3880	4-4860	0.822	106.3	24.2	1.29	1.304	50.9	0.819	3.009	89.5	182.3	---	5.473	0.12	0.185	79.9	324.1	-1.7	0.237
4-3880	4-4880	0.814	106.8	24.2	1.29	1.305	51.4	0.817	3.018	88.5	182.8	---	5.482	0.12	0.188	77.8	323.9	-1.7	0.237
4-3880	4-4900	0.806	107.4	24.1	1.29	1.305	51.8	0.815	3.027	87.5	183.3	---	5.493	0.12	0.191	75.8	323.9	-1.7	0.237
4-3880	4-4920	0.798	107.9	24.1	1.29	1.306	52.3	0.813	3.037	86.5	183.8	---	5.505	0.12	0.194	73.9	323.8	-1.7	0.237
4-3880	4-4940	0.790	108.5	24.1	1.28	1.306	52.8	0.810	3.048	85.5	184.4	---	5.518	0.12	0.197	72.2	323.9	-1.7	0.237
4-3880	4-4960	0.782	109.0	24.0	1.28	1.307	53.2	0.808	3.059	84.5	184.9	---	5.532	0.12	0.200	70.6	324.0	-1.7	0.238
4-3880	4-4980	0.774	109.6	24.0	1.28	1.307	53.7	0.807	3.070	83.5	185.4	---	5.546	0.12	0.204	69.1	324.1	-1.7	0.238
4-3880	4-5000	0.766	110.2	23.9	1.27	1.308	54.2	0.805	3.082	82.5	185.8	---	5.562	0.12	0.207	67.7	324.3	-1.7	0.238
4-3880	4-5020	0.758	110.8	23.9	1.27	1.308	54.7	0.803	3.095	81.4	186.3	---	5.579	0.12	0.210	66.4	324.5	-1.7	0.239
4-3880	4-5040	0.750	111.4	23.8	1.27	1.309	55.1	0.801	3.107	80.4	186.8	---	5.596	0.12	0.214	65.1	324.8	-1.7	0.240
4-3880	4-5060	0.741	112.0	23.8	1.26	1.309	55.6	0.799	3.121	79.4	187.3	---	5.614	0.12	0.217	64.0	325.2	-1.7	0.240
4-3880	4-5080	0.733	112.6	23.7	1.26	1.310	56.1	0.797	3.134	78.3	187.8	---	5.632	0.12	0.221	62.9	325.5	-1.6	0.241
4-3880	4-5100	0.725	113.2	23.6	1.26	1.310	56.6	0.795	3.147	77.2	188.2	---	5.651	0.12	0.224	61.9	326.0	-1.6	0.242
4-3880	4-5120	0.717	113.9	23.6	1.25	1.311	57.1	0.794	3.161	76.2	188.7	---	5.670	0.13	0.228	60.9	326.4	-1.6	0.243
4-3880	4-5140	0.709	114.5	23.5	1.25	1.311	57.5	0.792	3.175	75.1	189.1	---	5.690	0.13	0.231	60.0	326.9	-1.6	0.244
4-3880	4-5160	0.701	115.2	23.4	1.24	1.312	58.0	0.790	3.190	74.0	189.6	---	5.711	0.13	0.235	59.2	327.4	-1.5	0.245
4-3880	4-5180	0.693	115.9	23.4	1.24	1.312	58.5	0.789	3.204	73.0	190.0	---	5.731	0.13	0.238	58.4	328.0	-1.5	0.246
4-3880	4-5200	0.684	116.5	23.3	1.24	1.313	59.0	0.787	3.219	71.9	190.5	---	5.752	0.13	0.242	57.6	328.6	-1.5	0.247
4-3880	4-5220	0.676	117.2	23.2	1.23	1.313	59.5	0.786	3.233	70.8	190.9	---	5.773	0.13	0.245	56.9	329.3	-1.5	0.248
4-3880	4-5240	0.668	117.9	23.1	1.23	1.314	60.0	0.784	3.248	69.7	191.4	---	5.795	0.14	0.249	56.3	329.9	-1.4	0.249
4-3880	4-5260	0.660	118.7	23.0	1.22	1.314	60.5	0.783	3.263	68.6	191.8	---	5.817	0.14	0.252	55.6	330.6	-1.4	0.250
4-3880	4-5280	0.652	119.4	22.9	1.22	1.315	61.0	0.781	3.278	67.5	192.2	---	5.839	0.14	0.255	55.0	331.3	-1.4	0.251
4-3880	4-5300	0.643	120.1	22.8	1.22	1.315	61.4	0.780	3.293	66.4	192.6	---	5.861	0.14	0.259	54.5	332.1	-1.3	0.252
4-3880	4-5320	0.635	120.9	22.7	1.21	1.316	61.9	0.778	3.308	65.2	193.1	---	5.883	0.15	0.262	53.9	332.9	-1.3	0.253
4-3880	4-5340	0.627	121.6	22.6	1.20	1.316	62.4	0.777	3.324	64.1	193.5	---	5.906	0.15	0.265	53.4	333.7	-1.2	0.255
4-3880	4-5360	0.619	122.4	22.4	1.20	1.317	62.9	0.776	3.339	63.0	193.9	---	5.929	0.15	0.268	53.0	334.5	-1.2	0.256
4-3880	4-5380	0.611	123.2	22.3	1.19	1.318	63.4	0.774	3.354	61.8	194.3	---	5.952	0.16	0.272	52.5	335.4	-1.1	0.257
4-3880	4-5400	0.602	124.0	22.2	1.19	1.318	63.9	0.773	3.370	60.7	194.7	---	5.975	0.16	0.275	52.1	336.3	-1.1	0.258
4-3880	4-5420	0.594	124.9	22.0	1.18	1.319	64.4	0.772	3.385	59.6	195.1	---	5.998	0.17	0.278	51.7	337.2	-1.1	0.259
4-3880	4-5440	0.586	125.7	21.9	1.18	1.319	64.9	0.771	3.401	58.4	195.5	---	6.022	0.17	0.281	51.3	338.1	-1.0	0.261
4-3880	4-5460	0.578	126.6	21.7	1.17	1.320	65.4	0.770	3.416	57.2	195.9	---	6.045	0.18	0.284	50.9	339.0	-1.0	0.262
4-3880	4-5480	0.570	127.5	21.5	1.16	1.320	66.0	0.768	3.432	56.1	196.3	---	6.069	0.18	0.287	50.5	340.0	-0.9	0.263

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3890	4-4230	1.275	101.4	24.0	1.76	1.413	29.1	0.99228	4.139	122.7	157.3	---	---	0.61	0.580	167.5	345.2	-0.7	0.627
4-3890	4-4250	1.251	101.3	24.0	1.73	1.395	29.7	0.98011	4.450	122.8	158.9	---	---	0.58	0.533	166.3	344.6	-0.7	0.585
4-3890	4-4270	1.230	101.2	24.0	1.70	1.380	30.3	0.969	7.691	122.7	160.4	---	---	0.56	0.491	165.0	344.0	-0.7	0.547
4-3890	4-4290	1.211	101.2	24.0	1.68	1.367	30.9	0.960	6.045	122.5	161.8	---	---	0.54	0.453	163.6	343.3	-0.7	0.514
4-3890	4-4310	1.194	101.3	24.0	1.66	1.356	31.5	0.952	5.130	122.2	163.0	---	---	0.53	0.419	162.1	342.5	-0.8	0.484
4-3890	4-4330	1.178	101.5	24.0	1.64	1.347	32.0	0.944	4.553	121.9	164.2	---	---	0.51	0.388	160.4	341.8	-0.8	0.458
4-3890	4-4350	1.163	101.6	24.0	1.62	1.339	32.6	0.938	4.160	121.4	165.3	---	---	0.50	0.360	158.6	340.9	-0.9	0.434
4-3890	4-4370	1.149	101.8	24.0	1.60	1.332	33.1	0.932	3.879	120.9	166.3	---	---	0.48	0.334	156.7	340.1	-0.9	0.413
4-3890	4-4390	1.136	102.1	24.0	1.58	1.327	33.7	0.926	3.670	120.3	167.3	---	---	0.47	0.311	154.6	339.2	-0.9	0.394
4-3890	4-4410	1.124	102.3	24.0	1.56	1.322	34.2	0.921	3.510	119.7	168.2	---	---	0.46	0.290	152.3	338.2	-1.0	0.377
4-3890	4-4430	1.112	102.6	24.0	1.55	1.318	34.7	0.916	3.385	119.1	169.1	---	---	0.45	0.271	149.8	337.3	-1.0	0.362
4-3890	4-4450	1.101	102.9	24.0	1.53	1.315	35.3	0.911	3.287	118.4	169.9	---	---	0.44	0.254	147.2	336.3	-1.1	0.348
4-3890	4-4470	1.090	103.3	24.0	1.52	1.312	35.8	0.907	3.209	117.6	170.7	---	---	0.43	0.238	144.3	335.4	-1.1	0.336
4-3890	4-4490	1.079	103.6	23.9	1.50	1.310	36.3	0.903	3.146	116.9	171.5	---	---	0.42	0.224	141.3	334.4	-1.1	0.325
4-3890	4-4510	1.069	104.0	23.9	1.49	1.308	36.8	0.899	3.096	116.1	172.2	---	---	0.41	0.212	138.0	333.4	-1.2	0.315
4-3890	4-4530	1.059	104.4	23.9	1.48	1.306	37.4	0.895	3.055	115.3	172.9	---	---	0.41	0.201	134.6	332.5	-1.2	0.306
4-3890	4-4550	1.049	104.8	23.9	1.46	1.305	37.9	0.891	3.022	114.4	173.6	---	---	0.40	0.192	131.0	331.6	-1.3	0.299
4-3890	4-4570	1.039	105.2	23.8	1.45	1.304	38.4	0.888	2.996	113.6	174.3	---	---	0.39	0.184	127.2	330.7	-1.3	0.292
4-3890	4-4590	1.030	105.6	23.8	1.44	1.303	38.9	0.885	2.976	112.7	174.9	---	---	0.39	0.177	123.3	329.8	-1.3	0.286
4-3890	4-4610	1.020	106.0	23.8	1.43	1.302	39.4	0.881	2.960	111.8	175.5	---	---	0.38	0.171	119.4	329.0	-1.4	0.280
4-3890	4-4630	1.011	106.4	23.8	1.42	1.302	39.9	0.878	2.948	110.9	176.2	---	---	0.38	0.167	115.4	328.2	-1.4	0.276
4-3890	4-4650	1.002	106.9	23.7	1.41	1.301	40.4	0.875	2.939	110.0	176.8	---	---	0.37	0.164	111.4	327.5	-1.4	0.271
4-3890	4-4670	0.993	107.3	23.7	1.40	1.301	40.9	0.872	2.933	109.1	177.3	---	---	0.37	0.161	107.4	326.8	-1.5	0.268
4-3890	4-4690	0.984	107.8	23.7	1.39	1.301	41.5	0.869	2.930	108.1	177.9	---	---	0.37	0.160	103.6	326.2	-1.5	0.265
4-3890	4-4710	0.975	108.3	23.6	1.38	1.301	42.0	0.866	2.929	107.2	178.5	---	---	0.36	0.159	99.8	325.6	-1.5	0.262
4-3890	4-4730	0.966	108.7	23.6	1.37	1.301	42.5	0.863	2.930	106.2	179.0	---	---	0.36	0.159	96.2	325.1	-1.5	0.260
4-3890	4-4750	0.957	109.2	23.5	1.36	1.301	43.0	0.860	2.932	105.2	179.5	---	---	0.36	0.160	92.8	324.7	-1.6	0.258
4-3890	4-4770	0.948	109.7	23.5	1.35	1.301	43.5	0.858	2.936	104.3	180.1	---	5.455	0.36	0.161	89.5	324.3	-1.6	0.256
4-3890	4-4790	0.939	110.2	23.4	1.34	1.301	44.0	0.855	2.941	103.3	180.6	---	5.456	0.35	0.163	86.5	324.0	-1.6	0.255
4-3890	4-4810	0.931	110.7	23.4	1.33	1.302	44.5	0.853	2.948	102.3	181.1	---	5.461	0.35	0.166	83.6	323.7	-1.6	0.254
4-3890	4-4830	0.922	111.2	23.3	1.32	1.302	45.0	0.850	2.955	101.3	181.6	---	5.467	0.35	0.168	80.9	323.5	-1.6	0.253
4-3890	4-4850	0.913	111.7	23.3	1.31	1.302	45.5	0.847	2.963	100.3	182.1	---	5.475	0.35	0.171	78.5	323.3	-1.6	0.252
4-3890	4-4870	0.905	112.2	23.2	1.30	1.303	46.0	0.845	2.973	99.2	182.6	---	5.485	0.35	0.174	76.1	323.2	-1.6	0.252
4-3890	4-4890	0.896	112.7	23.2	1.29	1.303	46.5	0.843	2.983	98.2	183.1	---	5.496	0.35	0.177	74.0	323.2	-1.6	0.252
4-3890	4-4910	0.887	113.2	23.1	1.28	1.304	47.0	0.840	2.993	97.2	183.6	---	5.508	0.34	0.181	72.0	323.2	-1.6	0.251
4-3890	4-4930	0.879	113.8	23.1	1.27	1.304	47.5	0.838	3.004	96.2	184.0	---	5.521	0.34	0.185	70.2	323.3	-1.6	0.251
4-3890	4-4950	0.870	114.3	23.0	1.26	1.304	48.0	0.836	3.016	95.1	184.5	---	5.536	0.34	0.188	68.5	323.4	-1.6	0.251
4-3890	4-4970	0.861	114.9	22.9	1.25	1.305	48.5	0.833	3.028	94.1	185.0	---	5.551	0.34	0.192	66.9	323.6	-1.6	0.252
4-3890	4-4990	0.853	115.4	22.9	1.24	1.306	49.1	0.831	3.041	93.0	185.4	---	5.567	0.34	0.196	65.5	323.8	-1.6	0.252
4-3890	4-5010	0.844	116.0	22.8	1.24	1.306	49.6	0.829	3.054	91.9	185.9	---	5.584	0.35	0.200	64.1	324.1	-1.6	0.252
4-3890	4-5030	0.835	116.5	22.7	1.23	1.307	50.1	0.827	3.067	90.9	186.4	---	5.602	0.35	0.203	62.9	324.4	-1.5	0.253
4-3890	4-5050	0.827	117.1	22.6	1.22	1.307	50.6	0.825	3.080	89.8	186.8	---	5.620	0.35	0.207	61.7	324.8	-1.5	0.253
4-3890	4-5070	0.818	117.7	22.5	1.21	1.308	51.1	0.822	3.094	88.7	187.2	---	5.639	0.35	0.211	60.6	325.2	-1.5	0.254
4-3890	4-5090	0.810	118.2	22.5	1.20	1.308	51.6	0.820	3.108	87.7	187.7	---	5.658	0.35	0.215	59.6	325.6	-1.5	0.255
4-3890	4-5110	0.801	118.8	22.4	1.19	1.309	52.1	0.818	3.123	86.6	188.1	---	5.678	0.35	0.219	58.6	326.1	-1.5	0.255
4-3890	4-5130	0.792	119.4	22.3	1.18	1.309	52.6	0.816	3.137	85.5	188.6	---	5.699	0.35	0.223	57.8	326.6	-1.4	0.256
4-3890	4-5150	0.784	120.0	22.2	1.17	1.310	53.1	0.814	3.152	84.4	189.0	---	5.719	0.36	0.227	56.9	327.2	-1.4	0.257
4-3890	4-5170	0.775	120.6	22.1	1.16	1.311	53.6	0.812	3.167	83.3	189.4	---	5.740	0.36	0.230	56.2	327.7	-1.4	0.258
4-3890	4-5190	0.766	121.2	22.0	1.15	1.311	54.1	0.810	3.182	82.2	189.9	---	5.761	0.36	0.234	55.5	328.4	-1.3	0.258
4-3890	4-5210	0.758	121.9	21.9	1.14	1.312	54.6	0.809	3.198	81.1	190.3	---	5.783	0.36	0.238	54.8	329.0	-1.3	0.259
4-3890	4-5230	0.749	122.5	21.8	1.13	1.312	55.1	0.807	3.213	80.0	190.7	---	5.805	0.37	0.241	54.1	329.7	-1.3	0.260
4-3890	4-5250	0.740	123.1	21.6	1.12	1.313	55.6	0.805	3.228	78.9	191.1	---	5.827	0.37	0.245	53.5	330.4	-1.2	0.261
4-3890	4-5270	0.732	123.8	21.5	1.11	1.313	56.2	0.803	3.244	77.7	191.5	---	5.849	0.38	0.249	53.0	331.1	-1.2	0.262
4-3890	4-5290	0.723	124.4	21.4	1.10	1.314	56.7	0.801	3.260	76.6	191.9	---	5.872	0.38	0.252	52.5	331.9	-1.2	0.263
4-3890	4-5310	0.714	125.1	21.3	1.08	1.314	57.2	0.800	3.275	75.5	192.4	---	5.895	0.39	0.256	52.0	332.7	-1.1	0.264
4-3890	4-5330	0.706	125.8	21.1	1.07	1.315	57.7	0.798	3.291	74.4	192.8	---	5.917	0.39	0.259	51.5	333.5	-1.1	0.265
4-3890	4-5350	0.697	126.5	21.0	1.06	1.316	58.2	0.796	3.307	73.2	193.2	---	5.940	0.40	0.263	51.0	334.3	-1.0	0.266
4-3890	4-5370	0.688	127.2	20.8	1.05	1.316	58.7	0.795	3.323	72.1	193.6	---	5.964	0.40	0.266	50.6	335.2	-1.0	0.267
4-3890	4-5390	0.680	127.9	20.7	1.04	1.317	59.2	0.793	3.339	70.9	194.0	---	5.987	0.41	0.269	50.2	336.1	-0.9	0.268
4-3890	4-5410	0.671	128.6	20.5	1.02	1.317	59.8	0.792	3.355	69.8	194.4	---	6.010	0.42	0.273	49.9	337.0	-0.9	0.269
4-3890	4-5430	0.662	129.3	20.3	1.01	1.318	60.3	0.790	3.371	68.6	194.8	---	6.034	0.43	0.276	49.5	337.9	-0.8	0.270
4-3890	4-5450	0.654	130.1	20.2	0.99	1.318	60.8	0.788	3.387	67.4	195.2	---	6.057	0.44	0.279	49.2	338.8	-0.8	0.271
4-3890	4-5470	0.645	130.8	20.0	0.98	1.319	61.3	0.787	3.403	66.3	195.6	---	6.081	0.44	0.282	48.8	339.8	-0.7	0.272
4-3890	4-5490	0.636	131.6	19.8	0.96	1.319	61.8	0.786	3.419	65.1	196.0	---	6.105	0.46	0.285	48.5	340.8	-0.7	0.273
4-3900	4-4240	1.398	105.7	23.5	2.37	1.406	21.3	0.99318	0.025	138.5	163.7	---	---	1.32	0.562	170.4	342.9	-0.7	0.633
4-3900	4-4260	1.371	105.8	23.5	2.29	1.388	22.1	0.986	9.455	137.9	164.7	---	---	1.25	0.515	169.3	342.3	-0.7	0.591
4-3900	4-4280	1.348	105.9	23.5	2.22	1.373	22.9	0.979	6.797	137.3	165.6	---	---	1.18	0.473	168.1	341.6	-0.8	0.555
4-3900	4-4300	1.326	106.1	23.5	2.16	1.360	23.6	0.974	5.514	136.6	166.5	---	---	1.13	0.435	166.8	340.8	-0.8	0.522
4-3900	4-4320	1.307	106.3	23.5	2.10	1.350	24.3	0.968	4.767	135.9	167.3	---	---	1.08	0.401	165.3	340.0	-0.8	0.493
4-3900	4-4340	1.289	106.6	23.5	2.04	1.341	25.0	0.963	4.282	135.2	168.1	---	---	1.03	0.370	163.7	339.2	-0.9	0.467
4-3900	4-4360	1.272	106.9	23.5	2.00	1.333	25.7	0.958	3.946	134.4	168.9	---	---	0.99	0.341	162.0	338.3	-0.9	0.444
4-3900	4-4380	1.256	107.2	23.4	1.95	1.327	26.4	0.953	3.702	133.6	169.6	---	---	0.95	0.315	160.1	337.4	-0.9	0.424
4-3900	4-4400	1.242	107.5	23.4	1.91	1.322	27.1	0.949	3.520	132.7	170.3	---	---	0.92	0.292	158.0	336.5	-1.0	0.405
4-3900	4-4420	1.228	107.9	23.4	1.87	1.317	27.7	0.945	3.380	131.8	170.9	---	---	0.89	0.270	155.7	335.6	-1.0	0.389
4-3900	4-4440	1.214	108.2	23.3	1.83	1.314	28.4	0.941	3.271	131.0	171.6	---	---	0.86	0.251	153.2	334.7	-1.1	0.374
4-3900	4-4460	1.202	108.6	23.3	1.80	1.310	29.0	0.937	3.185	130.1	172.2	---	---	0.84	0.234	150.4	333.7	-1.1	0.361
4-3900	4-4480	1.189	109.0	23.3	1.77	1.308	29.6	0.933	3.116	129.1	172.8	---	---	0.81	0.218	147.4	332.8	-1.1	0.349
4-3900	4-4500	1.178	109.4	23.2	1.74	1.306	30.2	0.929	3.061	128.2	173.4	---	---	0.79	0.204	144.2	331.9	-1.2	0.339
4-3900	4-4520	1.166	109.8	23.2	1.71	1.304	30.8	0.925	3.017	127.3	174.0	---	---	0.77	0.191	140.7	331.0	-1.2	0.329
4-3900	4-4540	1.155	110.3	23.1	1.68	1.302	31.4	0.922	2.982	126.3	174.5	---	---	0.75	0.180	136.9	330.1	-1.2	0.321

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3900	4-4560	1.144	110.7	23.1	1.65	1.301	32.0	0.919	2.954	125.3	175.1	---	---	0.74	0.170	132.9	329.3	-1.3	0.314
4-3900	4-4580	1.133	111.1	23.0	1.63	1.300	32.6	0.915	2.932	124.3	175.6	---	---	0.72	0.162	128.7	328.5	-1.3	0.307
4-3900	4-4600	1.123	111.6	23.0	1.60	1.299	33.2	0.912	2.915	123.4	176.1	---	---	0.70	0.156	124.2	327.7	-1.3	0.301
4-3900	4-4620	1.112	112.0	22.9	1.58	1.299	33.8	0.909	2.902	122.4	176.7	---	---	0.69	0.150	119.7	327.0	-1.4	0.296
4-3900	4-4640	1.102	112.5	22.9	1.56	1.298	34.4	0.906	2.893	121.3	177.2	---	---	0.68	0.146	115.1	326.3	-1.4	0.291
4-3900	4-4660	1.092	113.0	22.8	1.54	1.298	34.9	0.902	2.887	120.3	177.7	---	---	0.67	0.143	110.5	325.7	-1.4	0.287
4-3900	4-4680	1.082	113.4	22.8	1.52	1.298	35.5	0.899	2.883	119.3	178.2	---	---	0.66	0.142	105.9	325.2	-1.4	0.284
4-3900	4-4700	1.072	113.9	22.7	1.50	1.298	36.1	0.896	2.882	118.3	178.6	---	---	0.65	0.141	101.5	324.6	-1.5	0.281
4-3900	4-4720	1.063	114.4	22.6	1.48	1.298	36.6	0.893	2.883	117.3	179.1	---	---	0.64	0.141	97.3	324.2	-1.5	0.278
4-3900	4-4740	1.053	114.9	22.6	1.46	1.298	37.2	0.891	2.885	116.2	179.6	---	---	0.63	0.142	93.2	323.8	-1.5	0.276
4-3900	4-4760	1.044	115.4	22.5	1.44	1.298	37.8	0.888	2.889	115.2	180.1	---	5.454	0.62	0.144	89.4	323.5	-1.5	0.274
4-3900	4-4780	1.034	115.8	22.4	1.42	1.298	38.3	0.885	2.895	114.1	180.5	---	5.456	0.61	0.146	85.9	323.2	-1.5	0.273
4-3900	4-4800	1.025	116.3	22.4	1.41	1.299	38.9	0.882	2.902	113.1	181.0	---	5.461	0.61	0.148	82.6	323.0	-1.5	0.271
4-3900	4-4820	1.015	116.8	22.3	1.39	1.299	39.4	0.879	2.909	112.0	181.4	---	5.467	0.60	0.151	79.6	322.8	-1.5	0.270
4-3900	4-4840	1.006	117.3	22.2	1.37	1.299	40.0	0.877	2.918	111.0	181.9	---	5.476	0.59	0.155	76.8	322.7	-1.5	0.269
4-3900	4-4860	0.997	117.8	22.1	1.36	1.300	40.5	0.874	2.927	109.9	182.3	---	5.486	0.59	0.158	74.2	322.7	-1.5	0.269
4-3900	4-4880	0.987	118.3	22.1	1.34	1.300	41.1	0.871	2.938	108.8	182.8	---	5.497	0.58	0.162	71.9	322.7	-1.5	0.268
4-3900	4-4900	0.978	118.9	22.0	1.32	1.301	41.6	0.869	2.949	107.8	183.2	---	5.510	0.58	0.166	69.7	322.7	-1.5	0.268
4-3900	4-4920	0.969	119.4	21.9	1.31	1.301	42.2	0.866	2.960	106.7	183.7	---	5.524	0.58	0.170	67.8	322.9	-1.5	0.267
4-3900	4-4940	0.960	119.9	21.8	1.29	1.302	42.7	0.864	2.972	105.6	184.1	---	5.539	0.57	0.175	66.0	323.0	-1.5	0.267
4-3900	4-4960	0.951	120.4	21.7	1.28	1.302	43.2	0.861	2.985	104.5	184.5	---	5.555	0.57	0.179	64.3	323.2	-1.5	0.267
4-3900	4-4980	0.941	120.9	21.6	1.26	1.303	43.8	0.859	2.998	103.5	185.0	---	5.572	0.57	0.183	62.8	323.5	-1.5	0.267
4-3900	4-5000	0.932	121.5	21.5	1.25	1.304	44.3	0.856	3.011	102.4	185.4	---	5.589	0.57	0.188	61.4	323.8	-1.5	0.267
4-3900	4-5020	0.923	122.0	21.4	1.23	1.304	44.9	0.854	3.025	101.3	185.8	---	5.607	0.56	0.192	60.1	324.1	-1.4	0.268
4-3900	4-5040	0.914	122.5	21.3	1.22	1.305	45.4	0.851	3.039	100.2	186.2	---	5.626	0.56	0.196	58.9	324.5	-1.4	0.268
4-3900	4-5060	0.905	123.1	21.2	1.20	1.305	45.9	0.849	3.053	99.1	186.7	---	5.645	0.56	0.200	57.9	324.9	-1.4	0.268
4-3900	4-5080	0.896	123.6	21.1	1.19	1.306	46.5	0.847	3.068	98.0	187.1	---	5.665	0.56	0.205	56.9	325.4	-1.4	0.269
4-3900	4-5100	0.887	124.2	21.0	1.17	1.307	47.0	0.844	3.083	96.9	187.5	---	5.686	0.56	0.209	55.9	325.9	-1.4	0.269
4-3900	4-5120	0.878	124.7	20.9	1.16	1.307	47.5	0.842	3.098	95.8	187.9	---	5.706	0.56	0.213	55.1	326.4	-1.3	0.270
4-3900	4-5140	0.869	125.3	20.8	1.14	1.308	48.1	0.840	3.113	94.7	188.3	---	5.728	0.56	0.217	54.3	327.0	-1.3	0.270
4-3900	4-5160	0.860	125.9	20.7	1.13	1.308	48.6	0.838	3.129	93.5	188.7	---	5.749	0.56	0.221	53.5	327.6	-1.3	0.271
4-3900	4-5180	0.851	126.4	20.6	1.11	1.309	49.1	0.835	3.144	92.4	189.1	---	5.771	0.57	0.226	52.9	328.2	-1.2	0.272
4-3900	4-5200	0.841	127.0	20.4	1.10	1.310	49.7	0.833	3.160	91.3	189.5	---	5.793	0.57	0.230	52.2	328.9	-1.2	0.272
4-3900	4-5220	0.832	127.6	20.3	1.08	1.310	50.2	0.831	3.176	90.2	190.0	---	5.815	0.57	0.233	51.6	329.5	-1.2	0.273
4-3900	4-5240	0.823	128.2	20.2	1.07	1.311	50.7	0.829	3.192	89.0	190.4	---	5.837	0.57	0.237	51.1	330.3	-1.1	0.274
4-3900	4-5260	0.814	128.8	20.0	1.05	1.311	51.3	0.827	3.208	87.9	190.8	---	5.860	0.58	0.241	50.5	331.0	-1.1	0.274
4-3900	4-5280	0.805	129.4	19.9	1.03	1.312	51.8	0.825	3.224	86.8	191.2	---	5.883	0.58	0.245	50.1	331.8	-1.1	0.275
4-3900	4-5300	0.796	130.0	19.8	1.02	1.313	52.3	0.823	3.240	85.6	191.6	---	5.906	0.58	0.249	49.6	332.6	-1.0	0.276
4-3900	4-5320	0.787	130.6	19.6	1.00	1.313	52.9	0.821	3.256	84.5	192.0	---	5.929	0.59	0.253	49.2	333.4	-1.0	0.277
4-3900	4-5340	0.778	131.2	19.5	0.99	1.314	53.4	0.819	3.273	83.3	192.4	---	5.953	0.59	0.256	48.8	334.2	-0.9	0.277
4-3900	4-5360	0.769	131.8	19.3	0.97	1.314	53.9	0.817	3.289	82.2	192.8	---	5.976	0.60	0.260	48.4	335.1	-0.9	0.278
4-3900	4-5380	0.760	132.4	19.1	0.95	1.315	54.5	0.815	3.305	81.0	193.1	---	6.000	0.61	0.263	48.1	335.9	-0.8	0.279
4-3900	4-5400	0.751	133.1	19.0	0.93	1.315	55.0	0.813	3.322	79.9	193.5	---	6.023	0.61	0.267	47.7	336.8	-0.8	0.280
4-3900	4-5420	0.742	133.7	18.8	0.91	1.316	55.5	0.811	3.338	78.7	193.9	---	6.047	0.62	0.270	47.4	337.8	-0.7	0.281
4-3900	4-5440	0.733	134.4	18.6	0.90	1.317	56.1	0.809	3.355	77.5	194.3	---	6.071	0.63	0.274	47.1	338.7	-0.7	0.282
4-3900	4-5460	0.724	135.0	18.4	0.88	1.317	56.6	0.808	3.371	76.4	194.7	---	6.095	0.64	0.277	46.8	339.7	-0.6	0.283
4-3900	4-5480	0.714	135.7	18.2	0.86	1.318	57.1	0.806	3.388	75.2	195.1	---	6.119	0.65	0.280	46.6	340.7	-0.6	0.283
4-3900	4-5500	0.705	136.4	18.0	0.83	1.318	57.7	0.804	3.405	74.0	195.5	---	6.143	0.66	0.284	46.3	341.6	-0.5	0.284

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4100	4-4520	0.878	133.4	14.3	-2.38	1.426	128.0	1.03717	-105	285.7	497.2	0.637	---	1.62	0.653	161.3	16.8	1.4	0.646
4-4100	4-4540	0.847	133.0	14.4	-2.30	1.407	126.9	1.00385	.937	286.3	499.4	0.648	---	1.56	0.611	159.9	17.0	1.4	0.604
4-4100	4-4560	0.820	132.7	14.5	-2.22	1.391	126.0	0.97425	.083	286.8	501.4	0.658	---	1.50	0.572	158.5	17.1	1.5	0.566
4-4100	4-4580	0.796	132.3	14.6	-2.16	1.377	125.2	0.94812	.718	287.4	503.5	0.667	---	1.44	0.537	157.1	17.2	1.5	0.532
4-4100	4-4600	0.775	132.1	14.7	-2.09	1.365	124.4	0.924	8.931	287.8	505.4	0.675	---	1.39	0.505	155.5	17.1	1.5	0.500
4-4100	4-4620	0.756	131.8	14.8	-2.04	1.354	123.8	0.904	7.106	288.2	507.4	0.683	---	1.35	0.476	153.9	17.0	1.5	0.471
4-4100	4-4640	0.740	131.6	14.9	-1.98	1.345	123.2	0.886	6.038	288.6	509.3	0.689	---	1.31	0.449	152.2	16.8	1.5	0.445
4-4100	4-4660	0.726	131.4	14.9	-1.93	1.337	122.7	0.870	5.341	288.9	511.1	0.695	---	1.27	0.424	150.4	16.6	1.5	0.420
4-4100	4-4680	0.713	131.2	15.0	-1.88	1.330	122.2	0.856	4.853	289.2	512.9	0.700	---	1.23	0.401	148.6	16.2	1.5	0.398
4-4100	4-4700	0.702	131.1	15.1	-1.84	1.324	121.8	0.843	4.495	289.4	514.6	0.704	---	1.20	0.380	146.6	15.8	1.5	0.378
4-4100	4-4720	0.693	131.0	15.1	-1.79	1.318	121.5	0.833	4.223	289.6	516.3	0.707	---	1.17	0.360	144.6	15.3	1.5	0.359
4-4100	4-4740	0.685	130.9	15.2	-1.75	1.313	121.2	0.823	4.010	289.7	517.9	0.710	---	1.14	0.343	142.5	14.7	1.5	0.342
4-4100	4-4760	0.678	130.9	15.2	-1.71	1.309	121.0	0.815	3.841	289.8	519.5	0.712	---	1.11	0.326	140.3	14.0	1.5	0.326
4-4100	4-4780	0.673	130.9	15.3	-1.67	1.306	120.8	0.807	3.704	289.8	521.0	0.714	---	1.09	0.311	138.0	13.2	1.4	0.311
4-4100	4-4800	0.668	130.9	15.3	-1.64	1.302	120.7	0.801	3.592	289.8	522.5	0.715	---	1.07	0.297	135.6	12.3	1.4	0.298
4-4100	4-4820	0.664	131.0	15.3	-1.60	1.299	120.6	0.796	3.499	289.7	523.9	0.715	---	1.05	0.284	133.1	11.3	1.4	0.286
4-4100	4-4840	0.662	131.1	15.4	-1.57	1.297	120.5	0.791	3.422	289.6	525.3	0.715	---	1.03	0.273	130.5	10.3	1.3	0.276
4-4100	4-4860	0.660	131.2	15.4	-1.54	1.295	120.5	0.787	3.357	289.4	526.7	0.715	---	1.01	0.262	127.8	9.1	1.3	0.266
4-4100	4-4880	0.659	131.3	15.4	-1.51	1.293	120.5	0.784	3.302	289.2	527.9	0.714	---	0.99	0.253	125.1	8.0	1.2	0.257
4-4100	4-4900	0.658	131.5	15.4	-1.48	1.291	120.5	0.781	3.256	288.9	529.2	0.713	---	0.98	0.244	122.2	6.7	1.2	0.250
4-4100	4-4920	0.659	131.7	15.4	-1.45	1.290	120.6	0.779	3.217	288.6	530.4	0.711	---	0.96	0.237	119.3	5.4	1.1	0.243
4-4100	4-4940	0.659	132.0	15.4	-1.42	1.289	120.7	0.777	3.183	288.2	531.5	0.708	---	0.95	0.230	116.4	4.1	1.0	0.237
4-4100	4-4960	0.661	132.2	15.4	-1.39	1.287	120.9	0.776	3.155	287.8	532.6	0.706	---	0.94	0.224	113.4	2.8	1.0	0.232
4-4100	4-4980	0.663	132.5	15.4	-1.36	1.287	121.0	0.776	3.132	287.4	533.7	0.703	---	0.93	0.219	110.4	1.4	0.9	0.228
4-4100	4-5000	0.666	132.8	15.4	-1.34	1.286	121.2	0.775	3.112	286.9	534.7	0.699	---	0.92	0.214	107.4	0.1	0.8	0.225
4-4100	4-5020	0.669	133.1	15.3	-1.31	1.285	121.4	0.775	3.096	286.4	535.7	0.695	---	0.91	0.211	104.3	358.8	0.8	0.222
4-4100	4-5040	0.673	133.5	15.3	-1.29	1.285	121.7	0.776	3.082	285.8	536.7	0.691	---	0.90	0.208	101.3	357.5	0.7	0.220
4-4100	4-5060	0.677	133.8	15.3	-1.26	1.284	121.9	0.777	3.071	285.2	537.6	0.686	---	0.89	0.205	98.3	356.3	0.6	0.219
4-4100	4-5080	0.681	134.2	15.2	-1.24	1.284	122.2	0.778	3.062	284.5	538.5	0.681	---	0.88	0.203	95.3	355.1	0.6	0.218
4-4100	4-5100	0.686	134.6	15.2	-1.21	1.283	122.5	0.779	3.056	283.9	539.3	0.676	---	0.88	0.202	92.4	354.1	0.5	0.218
4-4100	4-5120	0.692	135.1	15.1	-1.19	1.283	122.8	0.780	3.051	283.2	540.1	0.670	5.431	0.87	0.201	89.5	353.1	0.4	0.219
4-4100	4-5140	0.697	135.5	15.0	-1.16	1.283	123.2	0.782	3.047	282.4	540.9	0.664	5.430	0.87	0.201	86.7	352.1	0.4	0.219
4-4100	4-5160	0.704	135.9	15.0	-1.14	1.283	123.5	0.784	3.045	281.6	541.7	0.658	5.433	0.86	0.201	84.0	351.3	0.3	0.221
4-4100	4-5180	0.710	136.4	14.9	-1.12	1.283	123.9	0.786	3.045	280.8	542.4	0.651	5.438	0.86	0.201	81.3	350.6	0.3	0.222
4-4100	4-5200	0.717	136.9	14.8	-1.09	1.283	124.3	0.789	3.045	280.0	543.1	0.644	5.447	0.86	0.202	78.8	350.0	0.2	0.224
4-4100	4-5220	0.725	137.4	14.7	-1.07	1.283	124.8	0.791	3.047	279.1	543.7	0.637	5.457	0.85	0.203	76.3	349.5	0.2	0.227
4-4100	4-5240	0.732	137.9	14.6	-1.05	1.283	125.2	0.794	3.049	278.2	544.4	0.629	5.470	0.85	0.204	73.9	349.1	0.1	0.229
4-4100	4-5260	0.740	138.4	14.5	-1.03	1.283	125.7	0.797	3.053	277.3	545.0	0.621	5.485	0.85	0.206	71.6	348.7	0.1	0.232
4-4100	4-5280	0.749	139.0	14.4	-1.00	1.283	126.2	0.800	3.057	276.3	545.5	0.612	5.502	0.85	0.208	69.3	348.5	0.1	0.235
4-4100	4-5300	0.757	139.5	14.3	-0.98	1.284	126.7	0.803	3.062	275.3	546.1	0.604	5.521	0.85	0.210	67.2	348.4	0.1	0.239
4-4100	4-5320	0.766	140.0	14.2	-0.96	1.284	127.2	0.806	3.068	274.3	546.6	0.595	5.541	0.85	0.212	65.1	348.4	0.1	0.242
4-4100	4-5340	0.776	140.6	14.1	-0.93	1.284	127.7	0.810	3.074	273.2	547.1	0.585	5.563	0.85	0.214	63.1	348.4	0.0	0.246
4-4100	4-5360	0.785	141.2	14.0	-0.91	1.284	128.3	0.813	3.081	272.2	547.5	0.576	5.586	0.85	0.217	61.2	348.5	0.0	0.250
4-4100	4-5380	0.795	141.8	13.9	-0.89	1.285	128.8	0.817	3.088	271.0	548.0	0.566	5.611	0.86	0.219	59.3	348.8	0.0	0.254
4-4100	4-5400	0.806	142.3	13.7	-0.86	1.285	129.4	0.821	3.096	269.9	548.4	0.556	5.637	0.86	0.222	57.5	349.1	0.0	0.259
4-4100	4-5420	0.816	142.9	13.6	-0.84	1.285	130.0	0.824	3.104	268.7	548.8	0.545	5.664	0.86	0.225	55.8	349.4	0.0	0.263
4-4100	4-5440	0.827	143.5	13.4	-0.82	1.286	130.6	0.828	3.113	267.5	549.2	0.534	5.692	0.87	0.228	54.1	349.9	0.1	0.268
4-4100	4-5460	0.838	144.2	13.3	-0.79	1.286	131.3	0.832	3.122	266.3	549.5	0.523	5.721	0.87	0.230	52.5	350.4	0.1	0.272
4-4100	4-5480	0.850	144.8	13.1	-0.77	1.287	131.9	0.837	3.132	265.1	549.8	0.512	5.752	0.88	0.233	50.9	351.0	0.1	0.277
4-4100	4-5500	0.862	145.4	13.0	-0.74	1.287	132.6	0.841	3.142	263.8	550.1	0.500	5.783	0.89	0.236	49.4	351.6	0.1	0.282
4-4100	4-5520	0.874	146.0	12.8	-0.72	1.287	133.3	0.845	3.152	262.5	550.4	0.488	5.815	0.89	0.239	48.0	352.3	0.1	0.287
4-4100	4-5540	0.886	146.7	12.6	-0.69	1.288	134.0	0.849	3.162	261.1	550.6	0.476	5.848	0.90	0.242	46.5	353.1	0.2	0.292
4-4100	4-5560	0.899	147.3	12.5	-0.66	1.288	134.7	0.854	3.173	259.8	550.8	0.464	5.882	0.91	0.246	45.1	353.9	0.2	0.297
4-4100	4-5580	0.912	148.0	12.3	-0.64	1.289	135.5	0.858	3.184	258.4	551.0	0.451	5.917	0.92	0.249	43.8	354.7	0.2	0.303
4-4100	4-5600	0.925	148.6	12.1	-0.61	1.289	136.2	0.863	3.195	257.0	551.2	0.438	5.952	0.93	0.252	42.5	355.7	0.3	0.308
4-4100	4-5620	0.939	149.3	11.9	-0.58	1.289	137.0	0.867	3.207	255.5	551.4	0.425	5.988	0.94	0.255	41.2	356.6	0.3	0.313
4-4100	4-5640	0.953	150.0	11.7	-0.55	1.290	137.8	0.872	3.218	254.1	551.5	0.412	6.025	0.96	0.258	39.9	357.6	0.4	0.319
4-4100	4-5660	0.967	150.6	11.5	-0.52	1.290	138.6	0.877	3.230	252.6	551.6	0.398	6.063	0.97	0.261	38.7	358.7	0.4	0.325
4-4100	4-5680	0.981	151.3	11.3	-0.49	1.291	139.4	0.881	3.243	251.0	551.7	0.384	6.101	0.99	0.264	37.5	359.8	0.5	0.330
4-4100	4-5700	0.996	152.0	11.1	-0.45	1.291	140.3	0.886	3.255	249.5	551.7	0.370	6.139	1.00	0.267	36.3	0.9	0.5	0.336
4-4110	4-4530	0.825	138.3	11.2	-3.23	1.430	124.7	1.04515	-190	292.4	495.1	0.691	---	2.60	0.659	160.6	18.4	1.9	0.646
4-4110	4-4550	0.794	137.9	11.4	-3.07	1.411	123.6	1.00980	.355	293.0	497.3	0.702	---	2.45	0.617	159.3	18.6	1.9	0.604
4-4110	4-4570	0.766	137.6	11.6	-2.92	1.395	122.7	0.97630	.268	293.7	499.4	0.712	---	2.31	0.578	157.9	18.8	1.9	0.566
4-4110	4-4590	0.742	137.2	11.8	-2.78	1.381	121.9	0.94813	.883	294.3	501.5	0.721	---	2.19	0.543	156.4	18.9	1.9	0.532
4-4110	4-4610	0.720	136.9	12.0	-2.66	1.368	121.1	0.923	9.472	294.8	503.6	0.729	---	2.09	0.512	154.8	18.9	1.9	0.500
4-4110	4-4630	0.702	136.6	12.1	-2.55	1.358	120.5	0.901	7.433	295.3	505.6	0.737	---	1.99	0.482	153.2	18.8	1.9	0.471
4-4110	4-4650	0.685	136.3	12.3	-2.45	1.349	119.9	0.881	6.265	295.7	507.5	0.743	---	1.91	0.455	151.5	18.7	1.9	0.444
4-4110	4-4670	0.670	136.1	12.4	-2.36	1.340	119.3	0.864	5.512	296.1	509.4	0.749	---	1.83	0.431	149.8	18.5	1.9	0.420
4-4110	4-4690	0.658	135.9	12.6	-2.28	1.333	118.9	0.849	4.990	296.5	511.3	0.754	---	1.76	0.408	147.9	18.2	1.9	0.398
4-4110	4-4710	0.647	135.7	12.7	-2.20	1.327	118.5	0.836	4.609	296.7	513.1	0.758	---	1.69	0.387	146.0	17.8	1.9	0.377
4-4110	4-4730	0.637	135.6	12.8	-2.13	1.322	118.1	0.824	4.320	297.0	514.8	0.761	---	1.64	0.368	144.0	17.3	1.9	0.358
4-4110	4-4750	0.629	135.5	12.9	-2.06	1.317	117.8	0.813	4.096	297.1	516.5	0.764	---	1.58	0.350	141.9	16.8	1.9	0.340
4-4110	4-4770	0.622	135.4	13.0	-2.00	1.313	117.6	0.804	3.918	297.3	518.1	0.767	---	1.53	0.334	139.8	16.2	1.9	0.325
4-4110	4-4790	0.616	135.4	13.1	-1.94	1.309	117.4	0.796	3.773	297.3	519.7	0.769	---	1.49	0.319	137.5	15.4	1.9	0.310
4-4110	4-4810	0.611	135.4	13.2	-1.88	1.306	117.2	0.789	3.655	297.4	521.2	0.770	---	1.45	0.305	135.1	14.6	1.8	0.296
4-4110	4-4830	0.607	135.4	13.3	-1.83	1.303	117.1	0.783	3.558	297.3	522.7	0.771	---	1.41	0.293	132.7	13.7	1.8	0.284
4-4110	4-4850	0.603	135.5	13.4	-1.77	1.300	117.0	0.778	3.476	297.3	524.2	0.771	---	1.37	0.281	130.2	12.7	1.8	0.273
4-4110	4-4870	0.601	135.6	13.4	-1.73	1.298	117.0	0.774	3.408	297.1	525.5	0.771	---	1.34	0.271	127.6	11.7	1.7	0.263
4-4110	4-4890	0.600	135.8	13.5	-1.68	1.296	117.0	0.770	3.350	297.0	526.9	0.771	---	1.31	0.261	125.0	10.5	1.7	0.254
4-4110	4-4910	0.599	135.9	13.5	-1.64	1.294	117.0	0.767	3.302	296.7	528.2	0.770	---	1.28	0.253	122.3	9.3	1.6	0.246

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4110	4-4930	0.599	136.1	13.5	-1.59	1.293	117.0	0.764	3.260	296.5	529.4	0.768	---	1.26	0.245	119.5	8.1	1.6	0.239
4-4110	4-4950	0.599	136.4	13.6	-1.55	1.292	117.1	0.762	3.225	296.2	530.6	0.766	---	1.23	0.239	116.7	6.8	1.5	0.233
4-4110	4-4970	0.600	136.6	13.6	-1.51	1.290	117.2	0.761	3.196	295.8	531.8	0.764	---	1.21	0.233	113.8	5.5	1.4	0.228
4-4110	4-4990	0.602	136.9	13.6	-1.47	1.290	117.4	0.760	3.171	295.4	532.9	0.762	---	1.19	0.228	110.9	4.1	1.4	0.223
4-4110	4-5010	0.604	137.2	13.6	-1.44	1.289	117.5	0.759	3.149	295.0	534.0	0.759	---	1.17	0.223	108.1	2.8	1.3	0.220
4-4110	4-5030	0.606	137.5	13.6	-1.40	1.288	117.7	0.759	3.132	294.5	535.0	0.756	---	1.15	0.219	105.2	1.5	1.2	0.216
4-4110	4-5050	0.609	137.9	13.5	-1.37	1.287	117.9	0.759	3.117	294.0	536.0	0.752	---	1.14	0.216	102.3	0.2	1.1	0.214
4-4110	4-5070	0.613	138.3	13.5	-1.33	1.287	118.2	0.759	3.105	293.4	537.0	0.748	---	1.12	0.214	99.5	358.9	1.1	0.212
4-4110	4-5090	0.617	138.7	13.5	-1.30	1.287	118.4	0.760	3.095	292.8	537.9	0.744	---	1.11	0.212	96.6	357.7	1.0	0.211
4-4110	4-5110	0.621	139.1	13.4	-1.27	1.286	118.7	0.761	3.088	292.2	538.8	0.739	---	1.09	0.210	93.9	356.6	0.9	0.211
4-4110	4-5130	0.626	139.5	13.4	-1.24	1.286	119.0	0.762	3.082	291.5	539.6	0.734	---	1.08	0.210	91.2	355.5	0.8	0.211
4-4110	4-5150	0.631	140.0	13.3	-1.21	1.286	119.3	0.763	3.078	290.8	540.5	0.729	5.427	1.07	0.209	88.5	354.6	0.8	0.211
4-4110	4-5170	0.637	140.4	13.3	-1.18	1.286	119.6	0.765	3.075	290.1	541.3	0.723	5.427	1.06	0.209	85.9	353.7	0.7	0.212
4-4110	4-5190	0.643	140.9	13.2	-1.15	1.286	120.0	0.767	3.074	289.3	542.0	0.718	5.431	1.05	0.209	83.4	352.9	0.6	0.213
4-4110	4-5210	0.649	141.4	13.1	-1.12	1.286	120.4	0.769	3.074	288.5	542.8	0.711	5.437	1.04	0.210	81.0	352.2	0.6	0.215
4-4110	4-5230	0.655	141.9	13.0	-1.09	1.286	120.7	0.771	3.075	287.7	543.5	0.705	5.445	1.04	0.211	78.6	351.6	0.5	0.217
4-4110	4-5250	0.662	142.5	12.9	-1.06	1.286	121.2	0.773	3.077	286.9	544.1	0.698	5.456	1.03	0.212	76.3	351.1	0.5	0.219
4-4110	4-5270	0.670	143.0	12.8	-1.03	1.286	121.6	0.776	3.080	286.0	544.8	0.691	5.469	1.02	0.213	74.1	350.7	0.5	0.222
4-4110	4-5290	0.677	143.6	12.7	-1.01	1.286	122.0	0.778	3.084	285.1	545.4	0.683	5.484	1.02	0.215	71.9	350.4	0.4	0.224
4-4110	4-5310	0.685	144.1	12.6	-0.98	1.286	122.5	0.781	3.088	284.1	546.0	0.676	5.501	1.01	0.217	69.9	350.2	0.4	0.227
4-4110	4-5330	0.694	144.7	12.5	-0.95	1.286	123.0	0.784	3.093	283.1	546.6	0.668	5.519	1.01	0.219	67.9	350.0	0.4	0.231
4-4110	4-5350	0.702	145.3	12.4	-0.92	1.287	123.4	0.787	3.099	282.1	547.1	0.659	5.539	1.01	0.221	66.0	350.0	0.3	0.234
4-4110	4-5370	0.711	145.8	12.3	-0.90	1.287	124.0	0.791	3.106	281.1	547.6	0.651	5.561	1.01	0.223	64.1	350.1	0.3	0.238
4-4110	4-5390	0.720	146.4	12.1	-0.87	1.287	124.5	0.794	3.113	280.0	548.1	0.642	5.584	1.00	0.225	62.3	350.2	0.3	0.242
4-4110	4-5410	0.730	147.0	12.0	-0.84	1.288	125.0	0.797	3.120	278.9	548.6	0.632	5.608	1.00	0.228	60.6	350.4	0.3	0.246
4-4110	4-5430	0.739	147.7	11.8	-0.81	1.288	125.6	0.801	3.128	277.8	549.0	0.623	5.633	1.00	0.230	58.9	350.7	0.3	0.250
4-4110	4-5450	0.749	148.3	11.7	-0.79	1.288	126.2	0.805	3.136	276.7	549.5	0.613	5.660	1.00	0.233	57.3	351.1	0.3	0.254
4-4110	4-5470	0.760	148.9	11.5	-0.76	1.289	126.7	0.808	3.145	275.5	549.9	0.602	5.687	1.01	0.236	55.8	351.5	0.3	0.258
4-4110	4-5490	0.771	149.5	11.4	-0.73	1.289	127.4	0.812	3.154	274.3	550.2	0.592	5.716	1.01	0.239	54.3	352.0	0.3	0.263
4-4110	4-5510	0.782	150.2	11.2	-0.70	1.289	128.0	0.816	3.163	273.1	550.6	0.581	5.746	1.01	0.241	52.8	352.6	0.3	0.267
4-4110	4-5530	0.793	150.8	11.0	-0.67	1.290	128.6	0.820	3.173	271.8	550.9	0.570	5.776	1.02	0.244	51.4	353.2	0.4	0.272
4-4110	4-5550	0.804	151.5	10.9	-0.65	1.290	129.3	0.824	3.183	270.6	551.2	0.559	5.808	1.02	0.247	50.0	353.9	0.4	0.277
4-4110	4-5570	0.816	152.1	10.7	-0.62	1.290	129.9	0.829	3.194	269.3	551.5	0.547	5.840	1.03	0.250	48.7	354.7	0.4	0.281
4-4110	4-5590	0.828	152.8	10.5	-0.59	1.291	130.6	0.833	3.204	267.9	551.7	0.535	5.873	1.03	0.253	47.4	355.5	0.4	0.286
4-4110	4-5610	0.841	153.4	10.3	-0.56	1.291	131.3	0.837	3.215	266.6	552.0	0.523	5.907	1.04	0.256	46.1	356.3	0.5	0.291
4-4110	4-5630	0.853	154.1	10.1	-0.53	1.292	132.1	0.842	3.226	265.2	552.2	0.510	5.942	1.05	0.259	44.9	357.2	0.5	0.297
4-4110	4-5650	0.866	154.8	9.9	-0.50	1.292	132.8	0.846	3.237	263.8	552.4	0.497	5.977	1.06	0.262	43.7	358.2	0.5	0.302
4-4110	4-5670	0.880	155.5	9.7	-0.47	1.292	133.6	0.851	3.249	262.4	552.6	0.484	6.014	1.07	0.265	42.5	359.1	0.6	0.307
4-4110	4-5690	0.893	156.1	9.5	-0.43	1.293	134.3	0.856	3.261	260.9	552.7	0.471	6.050	1.08	0.268	41.3	0.2	0.6	0.312
4-4110	4-5710	0.907	156.8	9.3	-0.40	1.293	135.1	0.860	3.273	259.4	552.8	0.458	6.088	1.09	0.271	40.2	1.2	0.7	0.318
4-4120	4-4540	0.772	142.2	6.1	-5.25	1.433	121.2	1.05314.112		299.3	493.1	0.744	---	4.73	0.662	159.9	19.9	2.7	0.645
4-4120	4-4560	0.741	141.8	6.7	-4.78	1.414	120.2	1.01357.428		300.0	495.3	0.755	---	4.27	0.621	158.6	20.1	2.7	0.603
4-4120	4-4580	0.713	141.4	7.2	-4.39	1.398	119.3	0.97835.547		300.7	497.6	0.765	---	3.90	0.583	157.2	20.3	2.6	0.565
4-4120	4-4600	0.688	141.0	7.7	-4.06	1.384	118.5	0.94814.884		301.4	499.7	0.773	---	3.59	0.548	155.7	20.4	2.6	0.530
4-4120	4-4620	0.666	140.7	8.1	-3.78	1.372	117.7	0.921	9.920	302.0	501.9	0.781	---	3.32	0.516	154.2	20.5	2.6	0.499
4-4120	4-4640	0.647	140.4	8.5	-3.54	1.361	117.0	0.898	7.702	302.5	503.9	0.788	---	3.10	0.487	152.6	20.4	2.6	0.470
4-4120	4-4660	0.631	140.1	8.8	-3.33	1.352	116.4	0.877	6.452	303.0	505.9	0.794	---	2.90	0.460	150.9	20.3	2.5	0.443
4-4120	4-4680	0.616	139.8	9.1	-3.14	1.344	115.9	0.859	5.654	303.5	507.9	0.800	---	2.73	0.436	149.1	20.2	2.5	0.419
4-4120	4-4700	0.603	139.6	9.4	-2.98	1.337	115.4	0.842	5.104	303.9	509.8	0.805	---	2.58	0.413	147.3	19.9	2.5	0.396
4-4120	4-4720	0.592	139.4	9.7	-2.83	1.330	115.0	0.828	4.704	304.2	511.7	0.809	---	2.45	0.393	145.4	19.6	2.5	0.376
4-4120	4-4740	0.582	139.2	9.9	-2.70	1.325	114.7	0.815	4.402	304.5	513.5	0.812	---	2.33	0.374	143.4	19.2	2.5	0.357
4-4120	4-4760	0.573	139.1	10.2	-2.58	1.320	114.4	0.804	4.168	304.8	515.2	0.815	---	2.23	0.356	141.3	18.7	2.4	0.339
4-4120	4-4780	0.566	139.0	10.4	-2.47	1.316	114.1	0.795	3.983	304.9	516.9	0.818	---	2.13	0.340	139.2	18.1	2.4	0.323
4-4120	4-4800	0.560	139.0	10.6	-2.36	1.312	113.9	0.786	3.833	305.1	518.5	0.820	---	2.05	0.325	137.0	17.4	2.4	0.308
4-4120	4-4820	0.555	139.0	10.7	-2.27	1.309	113.7	0.779	3.710	305.1	520.1	0.821	---	1.97	0.312	134.7	16.7	2.4	0.295
4-4120	4-4840	0.550	139.0	10.9	-2.18	1.306	113.6	0.772	3.609	305.2	521.6	0.822	---	1.90	0.299	132.3	15.8	2.3	0.282
4-4120	4-4860	0.547	139.1	11.0	-2.10	1.303	113.5	0.766	3.524	305.1	523.1	0.823	---	1.84	0.288	129.9	14.9	2.3	0.271
4-4120	4-4880	0.544	139.2	11.2	-2.02	1.301	113.5	0.762	3.453	305.0	524.6	0.823	---	1.78	0.278	127.3	13.9	2.2	0.261
4-4120	4-4900	0.542	139.3	11.3	-1.95	1.299	113.4	0.757	3.393	304.9	526.9	0.823	---	1.72	0.269	124.8	12.8	2.2	0.252
4-4120	4-4920	0.541	139.5	11.4	-1.89	1.298	113.4	0.754	3.342	304.7	527.3	0.822	---	1.67	0.260	122.1	11.6	2.1	0.243
4-4120	4-4940	0.541	139.7	11.5	-1.82	1.296	113.5	0.751	3.299	304.5	528.6	0.821	---	1.63	0.253	119.5	10.4	2.1	0.236
4-4120	4-4960	0.541	140.0	11.5	-1.76	1.295	113.5	0.749	3.263	304.2	529.8	0.820	---	1.58	0.246	116.8	9.1	2.0	0.230
4-4120	4-4980	0.541	140.2	11.6	-1.71	1.294	113.6	0.747	3.232	303.9	531.0	0.818	---	1.54	0.240	114.0	7.9	1.9	0.224
4-4120	4-5000	0.542	140.5	11.6	-1.65	1.293	113.7	0.745	3.206	303.6	532.1	0.816	---	1.51	0.235	111.3	6.5	1.9	0.219
4-4120	4-5020	0.544	140.9	11.7	-1.60	1.292	113.9	0.744	3.183	303.2	533.3	0.814	---	1.47	0.231	108.5	5.2	1.8	0.215
4-4120	4-5040	0.546	141.2	11.7	-1.55	1.291	114.0	0.744	3.165	302.7	534.3	0.811	---	1.44	0.227	105.8	3.9	1.7	0.212
4-4120	4-5060	0.549	141.6	11.7	-1.50	1.290	114.2	0.743	3.149	302.3	535.4	0.808	---	1.41	0.224	103.0	2.6	1.6	0.209
4-4120	4-5080	0.552	142.0	11.7	-1.46	1.290	114.4	0.743	3.136	301.7	536.4	0.805	---	1.39	0.221	100.3	1.3	1.5	0.207
4-4120	4-5100	0.555	142.4	11.7	-1.41	1.290	114.7	0.744	3.126	301.2	537.4	0.801	---	1.36	0.219	97.6	0.1	1.4	0.205
4-4120	4-5120	0.559	142.9	11.6	-1.37	1.289	114.9	0.744	3.118	300.6	538.3	0.797	---	1.34	0.218	95.0	358.9	1.4	0.204
4-4120	4-5140	0.563	143.3	11.6	-1.33	1.289	115.2	0.745	3.111	300.0	539.2	0.793	---	1.31	0.217	92.4	357.8	1.3	0.204
4-4120	4-5160	0.568	143.8	11.6	-1.29	1.289	115.5	0.746	3.107	299.3	540.0	0.789	5.425	1.29	0.216	89.9	356.8	1.2	0.204
4-4120	4-5180	0.572	144.3	11.5	-1.25	1.289	115.8	0.747	3.104	298.6	540.9	0.784	5.423	1.28	0.216	87.4	355.9	1.1	0.204
4-4120	4-5200	0.578	144.8	11.5	-1.21	1.289	116.1	0.749	3.102	297.9	541.7	0.779	5.425	1.26	0.216	85.0	355.0	1.1	0.205
4-4120	4-5220	0.583	145.4	11.4	-1.17	1.289	116.5	0.751	3.101	297.1	542.5	0.774	5.429	1.24	0.217	82.7	354.2	1.0	0.207
4-4120	4-5240	0.589	145.9	11.3	-1.14	1.289	116.8	0.752	3.102	296.3	543.2	0.768	5.436	1.23	0.217	80.4	353.6	0.9	0.208
4-4120	4-5260	0.596	146.5	11.2	-1.10	1.289	117.2	0.754	3.103	295.5	543.9	0.762	5.445	1.21	0.218	78.2	353.0	0.9	0.210
4-4120	4-5280	0.602	147.0	11.1	-1.07	1.289	117.6	0.757	3.106	294.7	544.6	0.756	5.456	1.20	0.220	76.1	352.5	0.8	0.212
4-4120	4-5300	0.609	147.6	11.0	-1.03	1.289	118.0	0.759	3.109	293.8	545.3	0.749	5.469	1.19	0.221	74.1	352.1	0.8	0.215
4-4120	4-5320	0.616	148.2	10.9	-1.00	1.289	118.4	0.762	3.113	292.9	545.9	0.742	5.484	1.18	0.223	72.1	351.9	0.7	0.218

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4120	4-5340	0.624	148.8	10.8	-0.97	1.289	118.9	0.764	3.118	292.0	546.5	0.735	5.501	1.17	0.225	70.2	351.7	0.7	0.221
4-4120	4-5360	0.632	149.4	10.7	-0.93	1.289	119.3	0.767	3.124	291.0	547.1	0.728	5.519	1.16	0.227	68.3	351.6	0.6	0.224
4-4120	4-5380	0.640	150.1	10.5	-0.90	1.290	119.8	0.770	3.130	290.0	547.7	0.720	5.539	1.16	0.229	66.6	351.6	0.6	0.227
4-4120	4-5400	0.648	150.7	10.4	-0.87	1.290	120.3	0.773	3.136	289.0	548.2	0.712	5.560	1.15	0.231	64.8	351.6	0.6	0.230
4-4120	4-5420	0.657	151.3	10.2	-0.84	1.290	120.8	0.776	3.143	287.9	548.7	0.704	5.583	1.14	0.233	63.2	351.8	0.6	0.234
4-4120	4-5440	0.666	152.0	10.1	-0.81	1.290	121.3	0.779	3.151	286.9	549.2	0.695	5.606	1.14	0.236	61.6	352.0	0.6	0.238
4-4120	4-5460	0.675	152.6	9.9	-0.78	1.291	121.8	0.783	3.159	285.8	549.7	0.686	5.631	1.14	0.238	60.1	352.3	0.6	0.242
4-4120	4-5480	0.685	153.3	9.8	-0.74	1.291	122.4	0.786	3.167	284.7	550.1	0.677	5.657	1.13	0.241	58.6	352.7	0.6	0.246
4-4120	4-5500	0.695	153.9	9.6	-0.71	1.291	123.0	0.790	3.176	283.5	550.5	0.668	5.684	1.13	0.244	57.1	353.1	0.6	0.250
4-4120	4-5520	0.705	154.6	9.4	-0.68	1.292	123.5	0.793	3.185	282.3	550.9	0.658	5.712	1.13	0.246	55.7	353.6	0.6	0.254
4-4120	4-5540	0.715	155.2	9.2	-0.65	1.292	124.1	0.797	3.195	281.1	551.3	0.648	5.741	1.13	0.249	54.4	354.2	0.6	0.259
4-4120	4-5560	0.726	155.9	9.1	-0.62	1.293	124.7	0.801	3.204	279.9	551.7	0.637	5.771	1.13	0.252	53.0	354.8	0.6	0.263
4-4120	4-5580	0.737	156.6	8.9	-0.59	1.293	125.4	0.805	3.214	278.7	552.0	0.627	5.802	1.13	0.254	51.8	355.5	0.6	0.267
4-4120	4-5600	0.748	157.3	8.7	-0.56	1.293	126.0	0.809	3.225	277.4	552.3	0.616	5.834	1.13	0.257	50.5	356.3	0.6	0.272
4-4120	4-5620	0.760	158.0	8.5	-0.52	1.294	126.7	0.813	3.235	276.1	552.6	0.604	5.866	1.14	0.260	49.3	357.1	0.7	0.277
4-4120	4-5640	0.772	158.7	8.3	-0.49	1.294	127.3	0.817	3.246	274.8	552.9	0.593	5.899	1.14	0.263	48.1	357.9	0.7	0.282
4-4120	4-5660	0.784	159.3	8.1	-0.46	1.294	128.0	0.822	3.257	273.4	553.1	0.581	5.933	1.15	0.266	46.9	358.8	0.7	0.286
4-4120	4-5680	0.796	160.0	7.8	-0.43	1.295	128.7	0.826	3.268	272.0	553.4	0.569	5.968	1.15	0.269	45.8	359.7	0.7	0.291
4-4120	4-5700	0.809	160.7	7.6	-0.39	1.295	129.5	0.830	3.280	270.6	553.6	0.556	6.003	1.16	0.272	44.7	0.7	0.8	0.296
4-4120	4-5720	0.822	161.4	7.4	-0.36	1.296	130.2	0.835	3.291	269.2	553.8	0.543	6.039	1.17	0.274	43.6	1.7	0.8	0.301
4-4130	4-4550	0.763	143.1	-11.8	-14.65	1.436	117.6	1.05813.638		306.4	491.3	0.796	---	14.25	0.664	159.3	20.6	6.2	0.646
4-4130	4-4570	0.712	143.1	-7.0	-11.33	1.417	116.6	1.01649.853		307.2	493.7	0.806	---	10.94	0.623	157.9	21.1	5.3	0.602
4-4130	4-4590	0.675	143.0	-3.8	-9.25	1.401	115.7	0.97939.466		308.0	495.9	0.815	---	8.88	0.585	156.5	21.4	4.8	0.564
4-4130	4-4610	0.645	142.8	-1.6	-7.82	1.387	114.9	0.94715.555		308.7	498.2	0.823	---	7.47	0.550	155.0	21.6	4.4	0.529
4-4130	4-4630	0.620	142.7	0.1	-6.79	1.375	114.2	0.91910.223		309.4	500.4	0.830	---	6.45	0.519	153.5	21.8	4.1	0.497
4-4130	4-4650	0.599	142.5	1.5	-6.00	1.364	113.5	0.894	7.887	310.0	502.5	0.837	---	5.68	0.490	151.9	21.8	3.9	0.468
4-4130	4-4670	0.581	142.2	2.6	-5.38	1.355	112.9	0.872	6.583	310.6	504.6	0.843	---	5.08	0.464	150.2	21.7	3.8	0.441
4-4130	4-4690	0.565	142.0	3.6	-4.88	1.347	112.4	0.853	5.756	311.1	506.6	0.848	---	4.59	0.439	148.5	21.6	3.7	0.417
4-4130	4-4710	0.552	141.9	4.3	-4.47	1.340	111.9	0.836	5.187	311.6	508.6	0.852	---	4.19	0.417	146.6	21.4	3.6	0.394
4-4130	4-4730	0.540	141.7	5.0	-4.12	1.334	111.5	0.821	4.775	312.0	510.5	0.856	---	3.86	0.397	144.7	21.1	3.5	0.374
4-4130	4-4750	0.529	141.6	5.6	-3.82	1.328	111.1	0.808	4.465	312.3	512.3	0.859	---	3.58	0.378	142.8	20.8	3.4	0.355
4-4130	4-4770	0.521	141.5	6.2	-3.56	1.323	110.8	0.796	4.224	312.6	514.1	0.862	---	3.34	0.360	140.7	20.3	3.3	0.337
4-4130	4-4790	0.513	141.4	6.7	-3.34	1.319	110.6	0.786	4.034	312.9	515.9	0.865	---	3.13	0.345	138.6	19.7	3.3	0.321
4-4130	4-4810	0.506	141.4	7.1	-3.14	1.315	110.4	0.777	3.880	313.0	517.5	0.866	---	2.95	0.330	136.4	19.1	3.2	0.306
4-4130	4-4830	0.501	141.4	7.5	-2.96	1.312	110.2	0.769	3.754	313.1	519.2	0.868	---	2.79	0.317	134.2	18.4	3.1	0.292
4-4130	4-4850	0.496	141.4	7.8	-2.80	1.309	110.1	0.762	3.650	313.2	520.7	0.869	---	2.65	0.304	131.8	17.6	3.1	0.280
4-4130	4-4870	0.493	141.5	8.1	-2.66	1.307	110.0	0.756	3.563	313.2	522.3	0.870	---	2.52	0.293	129.4	16.7	3.0	0.269
4-4130	4-4890	0.490	141.6	8.4	-2.53	1.304	109.9	0.751	3.490	313.2	523.7	0.870	---	2.41	0.283	127.0	15.7	2.9	0.258
4-4130	4-4910	0.488	141.8	8.6	-2.41	1.302	109.9	0.746	3.429	313.1	525.2	0.870	---	2.31	0.274	124.5	14.7	2.9	0.249
4-4130	4-4930	0.486	142.0	8.9	-2.30	1.301	109.8	0.742	3.377	312.9	526.5	0.870	---	2.21	0.266	121.9	13.6	2.8	0.241
4-4130	4-4950	0.485	142.2	9.0	-2.20	1.299	109.9	0.739	3.333	312.8	527.8	0.869	---	2.13	0.259	119.3	12.4	2.7	0.233
4-4130	4-4970	0.485	142.5	9.2	-2.10	1.298	109.9	0.737	3.295	312.5	529.1	0.868	---	2.05	0.252	116.7	11.2	2.6	0.226
4-4130	4-4990	0.485	142.8	9.4	-2.01	1.297	110.0	0.734	3.263	312.2	530.4	0.867	---	1.98	0.246	114.0	9.9	2.6	0.220
4-4130	4-5010	0.486	143.1	9.5	-1.93	1.296	110.1	0.733	3.236	311.9	531.5	0.865	---	1.92	0.241	111.4	8.6	2.5	0.215
4-4130	4-5030	0.487	143.5	9.6	-1.86	1.295	110.2	0.731	3.213	311.5	532.7	0.863	---	1.86	0.237	108.7	7.3	2.4	0.211
4-4130	4-5050	0.489	143.9	9.7	-1.78	1.294	110.4	0.730	3.194	311.1	533.8	0.861	---	1.81	0.233	106.1	6.0	2.3	0.207
4-4130	4-5070	0.491	144.3	9.7	-1.71	1.293	110.6	0.730	3.178	310.7	534.9	0.858	---	1.76	0.230	103.5	4.7	2.2	0.204
4-4130	4-5090	0.493	144.8	9.8	-1.65	1.293	110.7	0.730	3.164	310.2	535.9	0.856	---	1.71	0.228	100.8	3.4	2.1	0.202
4-4130	4-5110	0.496	145.2	9.8	-1.59	1.293	111.0	0.730	3.153	309.7	536.9	0.853	---	1.67	0.226	98.3	2.2	2.0	0.200
4-4130	4-5130	0.499	145.7	9.8	-1.53	1.292	111.2	0.730	3.145	309.1	537.9	0.850	---	1.63	0.224	95.8	1.0	1.9	0.199
4-4130	4-5150	0.503	146.3	9.8	-1.47	1.292	111.4	0.730	3.138	308.5	538.8	0.846	---	1.59	0.223	93.3	359.9	1.8	0.198
4-4130	4-5170	0.507	146.8	9.8	-1.42	1.292	111.7	0.731	3.133	307.9	539.7	0.842	---	1.56	0.223	90.9	358.8	1.7	0.198
4-4130	4-5190	0.511	147.3	9.8	-1.37	1.292	112.0	0.732	3.129	307.2	540.6	0.838	5.420	1.53	0.222	88.5	357.8	1.6	0.198
4-4130	4-5210	0.516	147.9	9.7	-1.32	1.292	112.3	0.733	3.127	306.5	541.4	0.834	5.420	1.50	0.222	86.2	356.9	1.5	0.199
4-4130	4-5230	0.521	148.5	9.7	-1.27	1.291	112.6	0.735	3.126	305.8	542.2	0.829	5.423	1.47	0.223	84.0	356.1	1.4	0.200
4-4130	4-5250	0.526	149.1	9.6	-1.22	1.291	113.0	0.736	3.126	305.1	543.0	0.825	5.428	1.44	0.224	81.8	355.4	1.3	0.201
4-4130	4-5270	0.532	149.7	9.5	-1.18	1.292	113.3	0.738	3.128	304.3	543.7	0.820	5.436	1.42	0.224	79.7	354.8	1.3	0.203
4-4130	4-5290	0.538	150.4	9.4	-1.13	1.292	113.7	0.740	3.130	303.5	544.4	0.814	5.446	1.40	0.226	77.7	354.2	1.2	0.205
4-4130	4-5310	0.544	151.0	9.4	-1.09	1.292	114.1	0.742	3.133	302.6	545.1	0.809	5.457	1.38	0.227	75.7	353.8	1.1	0.207
4-4130	4-5330	0.551	151.7	9.2	-1.05	1.292	114.5	0.744	3.137	301.7	545.8	0.803	5.471	1.36	0.229	73.8	353.5	1.1	0.209
4-4130	4-5350	0.558	152.3	9.1	-1.01	1.292	114.9	0.746	3.141	300.8	546.5	0.797	5.486	1.34	0.230	72.0	353.2	1.0	0.212
4-4130	4-5370	0.565	153.0	9.0	-0.97	1.292	115.3	0.749	3.147	299.9	547.1	0.790	5.503	1.33	0.232	70.2	353.1	1.0	0.215
4-4130	4-5390	0.572	153.7	8.9	-0.93	1.292	115.7	0.751	3.152	298.9	547.7	0.783	5.521	1.31	0.234	68.5	353.0	0.9	0.218
4-4130	4-5410	0.580	154.3	8.7	-0.89	1.293	116.2	0.754	3.159	298.0	548.3	0.776	5.541	1.30	0.236	66.9	353.0	0.9	0.221
4-4130	4-5430	0.588	155.0	8.6	-0.86	1.293	116.7	0.757	3.166	297.0	548.8	0.769	5.562	1.29	0.239	65.3	353.1	0.9	0.224
4-4130	4-5450	0.596	155.7	8.4	-0.82	1.293	117.2	0.760	3.173	295.9	549.3	0.762	5.584	1.28	0.241	63.8	353.3	0.9	0.228
4-4130	4-5470	0.605	156.4	8.3	-0.78	1.294	117.7	0.763	3.181	294.9	549.8	0.754	5.607	1.27	0.243	62.3	353.5	0.8	0.231
4-4130	4-5490	0.613	157.1	8.1	-0.75	1.294	118.2	0.766	3.189	293.8	550.3	0.746	5.632	1.26	0.246	60.9	353.8	0.8	0.235
4-4130	4-5510	0.623	157.8	7.9	-0.71	1.294	118.7	0.769	3.197	292.7	550.8	0.737	5.657	1.25	0.248	59.5	354.2	0.8	0.239
4-4130	4-5530	0.632	158.5	7.7	-0.68	1.295	119.2	0.773	3.206	291.5	551.2	0.729	5.684	1.24	0.251	58.1	354.7	0.8	0.243
4-4130	4-5550	0.642	159.2	7.5	-0.64	1.295	119.8	0.776	3.215	290.4	551.7	0.720	5.711	1.24	0.253	56.8	355.2	0.8	0.247
4-4130	4-5570	0.651	160.0	7.3	-0.61	1.295	120.4	0.780	3.225	289.2	552.1	0.710	5.740	1.23	0.256	55.6	355.8	0.8	0.251
4-4130	4-5590	0.662	160.7	7.1	-0.57	1.296	121.0	0.783	3.235	288.0	552.4	0.701	5.769	1.23	0.259	54.3	356.4	0.8	0.255
4-4130	4-5610	0.672	161.4	6.9	-0.54	1.296	121.6	0.787	3.245	286.8	552.8	0.691	5.799	1.23	0.261	53.1	357.1	0.8	0.260
4-4130	4-5630	0.683	162.1	6.7	-0.51	1.296	122.2	0.791	3.255	285.5	553.1	0.681	5.830	1.22	0.264	52.0	357.9	0.9	0.264
4-4130	4-5650	0.694	162.9	6.5	-0.47	1.297	122.8	0.795	3.266	284.2	553.5	0.670	5.861	1.22	0.267	50.8	358.7	0.9	0.268
4-4130	4-5670	0.705	163.6	6.3	-0.44	1.297	123.4	0.799	3.277	282.9	553.8	0.659	5.894	1.22	0.270	49.7	359.5	0.9	0.273
4-4130	4-5690	0.717	164.3	6.0	-0.40	1.298	124.1	0.803	3.287	281.6	554.0	0.648	5.927	1.22	0.273	48.6	0.4	0.9	0.278
4-4130	4-5710	0.728	165.0	5.8	-0.37	1.298	124.8	0.807	3.299	280.3	554.3	0.637	5.961	1.23	0.275	47.6	1.3	1.0	0.282
4-4130	4-5730	0.741	165.8	5.6	-0.33	1.298	125.5	0.811	3.310	278.9	554.5	0.625	5.995	1.23	0.278	46.5	2.3	1.0	0.287

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-414C	4-456C	0.727	170.3	38.9	16.81	1.437	113.7	1.06213	701	314.1	489.8	0.847	---	-17.09	0.664	158.5	22.2	-5.2	0.643
4-414C	4-458C	0.796	185.3	48.2	25.50	1.419	112.6	1.01749	584	315.1	492.2	0.856	---	-25.77	0.623	157.2	21.3	-8.8	0.611
4-414C	4-460C	1.099	224.6	50.0	48.05	1.403	111.7	0.97840	227	316.2	494.5	0.865	---	-48.30	0.585	155.8	16.7	-16.1	0.615
4-414C	4-462C	1.483	190.3	-70.0	-74.09	1.389	111.5	0.94515	747	315.7	497.0	0.865	---	73.85	0.551	154.4	6.7	21.1	0.647
4-414C	4-464C	0.869	142.7	-47.5	-34.46	1.377	110.6	0.91510	333	316.9	499.2	0.874	---	34.24	0.520	152.8	18.3	15.7	0.526
4-414C	4-466C	0.673	140.0	-30.1	-20.90	1.367	109.8	0.889	7.966	317.7	501.4	0.881	---	20.70	0.491	151.2	21.2	11.2	0.477
4-414C	4-468C	0.594	140.2	-20.0	-14.85	1.357	109.2	0.867	6.647	318.4	503.5	0.886	---	14.66	0.465	149.5	22.0	8.9	0.445
4-414C	4-470C	0.551	140.6	-13.6	-11.49	1.349	108.7	0.847	5.809	319.0	505.6	0.891	---	11.32	0.441	147.8	22.3	7.5	0.418
4-414C	4-472C	0.524	140.9	-9.3	-9.37	1.342	108.3	0.829	5.234	319.6	507.6	0.895	---	9.22	0.419	146.0	22.3	6.6	0.394
4-414C	4-474C	0.505	141.2	-6.2	-7.91	1.336	107.9	0.814	4.818	320.0	509.5	0.898	---	7.77	0.399	144.1	22.2	6.0	0.373
4-414C	4-476C	0.490	141.3	-3.8	-6.84	1.331	107.5	0.800	4.504	320.4	511.4	0.901	---	6.72	0.380	142.1	21.9	5.6	0.353
4-414C	4-478C	0.478	141.4	-1.9	-6.02	1.326	107.2	0.788	4.261	320.8	513.3	0.904	---	5.92	0.363	140.1	21.5	5.2	0.335
4-414C	4-480C	0.468	141.5	-0.4	-5.38	1.322	106.9	0.777	4.068	321.0	515.1	0.906	---	5.30	0.348	138.0	21.0	5.0	0.319
4-414C	4-482C	0.460	141.6	0.9	-4.86	1.318	106.7	0.768	3.912	321.2	516.8	0.908	---	4.80	0.333	135.8	20.4	4.7	0.304
4-414C	4-484C	0.454	141.8	2.0	-4.43	1.315	106.6	0.760	3.785	321.4	518.5	0.909	---	4.38	0.320	133.6	19.8	4.5	0.290
4-414C	4-486C	0.448	141.9	2.9	-4.07	1.312	106.4	0.753	3.680	321.5	520.1	0.910	---	4.04	0.308	131.3	19.0	4.4	0.278
4-414C	4-488C	0.444	142.1	3.7	-3.76	1.310	106.3	0.747	3.592	321.6	521.6	0.910	---	3.74	0.297	128.9	18.2	4.2	0.266
4-414C	4-490C	0.440	142.3	4.3	-3.49	1.307	106.3	0.741	3.518	321.5	523.1	0.911	---	3.49	0.287	126.5	17.2	4.1	0.256
4-414C	4-492C	0.437	142.5	4.9	-3.25	1.305	106.2	0.736	3.456	321.5	524.6	0.911	---	3.28	0.278	124.1	16.2	3.9	0.246
4-414C	4-494C	0.435	142.8	5.4	-3.05	1.304	106.2	0.732	3.404	321.4	526.0	0.911	---	3.09	0.270	121.6	15.1	3.8	0.238
4-414C	4-496C	0.434	143.1	5.9	-2.86	1.302	106.2	0.729	3.359	321.2	527.3	0.910	---	2.92	0.263	119.0	14.0	3.7	0.230
4-414C	4-498C	0.433	143.5	6.3	-2.70	1.301	106.3	0.726	3.321	321.0	528.6	0.909	---	2.77	0.257	116.5	12.8	3.5	0.223
4-414C	4-500C	0.433	143.8	6.6	-2.54	1.300	106.4	0.724	3.288	320.7	529.9	0.908	---	2.64	0.251	113.9	11.6	3.4	0.217
4-414C	4-502C	0.433	144.2	6.9	-2.41	1.299	106.5	0.722	3.261	320.4	531.1	0.907	---	2.52	0.246	111.3	10.3	3.3	0.212
4-414C	4-504C	0.434	144.7	7.1	-2.28	1.298	106.6	0.720	3.238	320.1	532.3	0.906	---	2.41	0.242	108.7	9.0	3.1	0.208
4-414C	4-506C	0.435	145.2	7.4	-2.17	1.297	106.7	0.719	3.218	319.7	533.4	0.904	---	2.32	0.239	106.2	7.7	3.0	0.204
4-414C	4-508C	0.437	145.7	7.5	-2.06	1.296	106.9	0.718	3.201	319.3	534.5	0.902	---	2.23	0.236	103.6	6.4	2.9	0.201
4-414C	4-510C	0.439	146.2	7.7	-1.96	1.296	107.1	0.718	3.188	318.8	535.5	0.900	---	2.15	0.233	101.1	5.2	2.8	0.198
4-414C	4-512C	0.441	146.8	7.8	-1.87	1.296	107.3	0.718	3.177	318.3	536.6	0.897	---	2.07	0.231	98.6	3.9	2.6	0.196
4-414C	4-514C	0.444	147.3	7.9	-1.78	1.295	107.5	0.718	3.168	317.8	537.5	0.895	---	2.01	0.230	96.2	2.7	2.5	0.195
4-414C	4-516C	0.447	148.0	8.0	-1.70	1.295	107.7	0.718	3.161	317.2	538.5	0.892	---	1.95	0.229	93.8	1.6	2.4	0.194
4-414C	4-518C	0.451	148.6	8.0	-1.63	1.295	108.0	0.718	3.155	316.6	539.4	0.889	---	1.89	0.228	91.5	0.5	2.3	0.193
4-414C	4-520C	0.454	149.2	8.0	-1.55	1.295	108.2	0.719	3.152	316.0	540.3	0.886	5.418	1.84	0.228	89.2	359.5	2.1	0.193
4-414C	4-522C	0.458	149.9	8.0	-1.49	1.294	108.5	0.720	3.149	315.3	541.2	0.882	5.417	1.79	0.228	87.0	358.6	2.0	0.194
4-414C	4-524C	0.463	150.6	8.0	-1.42	1.294	108.8	0.721	3.148	314.6	542.0	0.878	5.418	1.74	0.228	84.9	357.7	1.9	0.194
4-414C	4-526C	0.467	151.3	8.0	-1.36	1.294	109.1	0.722	3.148	313.9	542.8	0.874	5.423	1.70	0.229	82.8	357.0	1.8	0.195
4-414C	4-528C	0.472	152.0	7.9	-1.30	1.294	109.5	0.724	3.150	313.1	543.6	0.870	5.429	1.66	0.230	80.8	356.3	1.7	0.197
4-414C	4-530C	0.478	152.7	7.9	-1.24	1.295	109.8	0.725	3.152	312.3	544.3	0.866	5.438	1.63	0.231	78.8	355.8	1.6	0.198
4-414C	4-532C	0.483	153.4	7.8	-1.19	1.295	110.2	0.727	3.155	311.5	545.0	0.861	5.448	1.60	0.232	77.0	355.3	1.6	0.200
4-414C	4-534C	0.489	154.2	7.7	-1.14	1.295	110.6	0.729	3.158	310.6	545.7	0.856	5.461	1.56	0.234	75.1	354.9	1.5	0.203
4-414C	4-536C	0.495	154.9	7.6	-1.09	1.295	111.0	0.731	3.163	309.8	546.4	0.851	5.475	1.54	0.235	73.4	354.6	1.4	0.205
4-414C	4-538C	0.502	155.7	7.5	-1.04	1.295	111.4	0.733	3.168	308.9	547.1	0.845	5.490	1.51	0.237	71.7	354.4	1.3	0.207
4-414C	4-540C	0.508	156.4	7.3	-0.99	1.295	111.8	0.735	3.173	307.9	547.7	0.840	5.507	1.49	0.239	70.1	354.3	1.3	0.210
4-414C	4-542C	0.515	157.2	7.2	-0.94	1.296	112.2	0.738	3.180	307.0	548.3	0.834	5.525	1.46	0.241	68.5	354.3	1.2	0.213
4-414C	4-544C	0.523	158.0	7.0	-0.90	1.296	112.7	0.740	3.186	306.0	548.9	0.828	5.545	1.44	0.243	67.0	354.3	1.2	0.216
4-414C	4-546C	0.530	158.7	6.9	-0.85	1.296	113.1	0.743	3.194	305.0	549.4	0.821	5.566	1.42	0.245	65.5	354.5	1.2	0.219
4-414C	4-548C	0.538	159.5	6.7	-0.81	1.296	113.6	0.746	3.201	304.0	550.0	0.814	5.588	1.40	0.248	64.1	354.7	1.1	0.223
4-414C	4-550C	0.546	160.3	6.5	-0.77	1.297	114.1	0.748	3.209	302.9	550.5	0.807	5.611	1.39	0.250	62.7	355.0	1.1	0.226
4-414C	4-552C	0.554	161.1	6.3	-0.73	1.297	114.6	0.751	3.218	301.8	551.0	0.800	5.635	1.37	0.253	61.4	355.3	1.1	0.230
4-414C	4-554C	0.563	161.9	6.1	-0.69	1.297	115.1	0.754	3.226	300.7	551.5	0.793	5.660	1.36	0.255	60.1	355.7	1.1	0.233
4-414C	4-556C	0.572	162.6	5.9	-0.65	1.298	115.6	0.757	3.235	299.6	551.9	0.785	5.686	1.35	0.258	58.8	356.2	1.1	0.237
4-414C	4-558C	0.581	163.4	5.7	-0.61	1.298	116.1	0.761	3.245	298.5	552.4	0.777	5.713	1.34	0.260	57.6	356.8	1.0	0.241
4-414C	4-560C	0.590	164.2	5.5	-0.57	1.298	116.7	0.764	3.254	297.3	552.8	0.768	5.741	1.33	0.263	56.5	357.3	1.0	0.245
4-414C	4-562C	0.600	165.0	5.3	-0.54	1.299	117.3	0.767	3.264	296.1	553.2	0.760	5.769	1.32	0.265	55.3	358.0	1.0	0.249
4-414C	4-564C	0.610	165.8	5.1	-0.50	1.299	117.8	0.771	3.275	294.9	553.6	0.751	5.799	1.31	0.268	54.2	358.7	1.1	0.253
4-414C	4-566C	0.620	166.6	4.8	-0.46	1.300	118.4	0.774	3.285	293.7	553.9	0.741	5.829	1.30	0.271	53.1	359.5	1.1	0.257
4-414C	4-568C	0.630	167.4	4.6	-0.42	1.300	119.0	0.778	3.296	292.4	554.3	0.732	5.860	1.30	0.273	52.1	0.3	1.1	0.261
4-414C	4-570C	0.641	168.2	4.3	-0.39	1.300	119.6	0.782	3.306	291.1	554.6	0.722	5.891	1.29	0.276	51.0	1.1	1.1	0.266
4-414C	4-572C	0.652	168.9	4.1	-0.35	1.301	120.3	0.786	3.317	289.8	554.9	0.712	5.923	1.29	0.279	50.0	2.0	1.1	0.270
4-414C	4-574C	0.663	169.7	3.8	-0.31	1.301	120.9	0.789	3.329	288.5	555.2	0.701	5.956	1.29	0.282	49.0	2.9	1.2	0.275
4-415C	4-455C	0.627	159.4	20.3	4.93	1.459	110.7	1.116	-7.630	320.9	486.1	0.882	---	-5.11	0.706	159.2	23.7	-0.7	0.675
4-415C	4-457C	0.597	159.3	22.3	5.51	1.438	109.7	1.06214	353	321.9	488.6	0.891	---	-5.68	0.661	157.9	24.0	-1.0	0.630
4-415C	4-459C	0.573	159.5	24.6	6.25	1.420	108.7	1.01656	903	322.9	491.1	0.898	---	-6.40	0.620	156.5	24.2	-1.4	0.590
4-415C	4-461C	0.554	160.0	27.5	7.19	1.404	107.9	0.97637	246	323.8	493.5	0.905	---	-7.33	0.583	155.1	24.3	-2.0	0.553
4-415C	4-463C	0.540	161.1	31.0	8.46	1.391	107.1	0.94115	393	324.7	495.9	0.911	---	-8.58	0.550	153.6	24.4	-2.8	0.520
4-415C	4-465C	0.535	163.3	35.5	10.24	1.379	106.4	0.91010	225	325.5	498.2	0.917	---	-10.34	0.519	152.1	24.4	-3.8	0.490
4-415C	4-467C	0.542	167.5	41.5	12.92	1.368	105.8	0.884	7.926	326.3	500.5	0.922	---	-13.00	0.491	150.5	24.2	-5.5	0.464
4-415C	4-469C	0.578	176.6	49.2	17.41	1.359	105.2	0.860	6.633	327.0	502.7	0.926	---	-17.48	0.465	148.8	23.6	-8.2	0.443
4-415C	4-471C	0.687	199.2	57.4	26.28	1.352	104.7	0.840	5.808	327.7	504.8	0.930	---	-26.33	0.441	147.1	22.0	-13.1	0.433
4-415C	4-473C	1.045	243.5	52.4	49.15	1.345	104.1	0.822	5.240	328.6	506.8	0.934	---	-49.18	0.419	145.2	15.6	-22.0	0.467
4-415C	4-475C	1.432	211.0	-80.1	-73.67	1.339	104.4	0.807	4.828	327.6	509.0	0.931	---	73.66	0.399	143.5	4.1	25.9	0.526
4-415C	4-477C	0.797	135.2	-56.8	-34.59	1.333	103.9	0.793	4.517	328.6	510.9	0.936	---	34.59	0.381	141.5	16.9	20.9	0.395
4-415C	4-479C	0.586	134.6	-38.2	-20.98	1.329	103.5	0.781	4.275	329.1	512.7	0.938	---	21.00	0.364	139.4	20.1	15.1	0.350
4-415C	4-481C	0.502	135.9	-26.6	-14.86	1.324	103.2	0.770	4.083	329.5	514.5	0.940	---	14.90	0.349	137.3	20.8	11.9	0.325
4-415C	4-483C	0.461	137.1	-18.9	-11.46	1.321	103.0	0.760	3.928	329.7	516.3	0.942	---	11.51	0.335	135.2	20.8	10.0	0.306
4-415C	4-485C	0.438	138.0	-13.6	-9.30	1.318	102.9	0.752	3.802	329.9	518.0	0.943	---	9.37	0.322	133.0	20.4	8.7	0.291
4-415C	4-487C	0.422	138.7	-9.7	-7.87	1.315	102.7	0.745	3.697	330.1	519.6	0.944	---	7.91	0.310	130.7	19.8	7.8	0.277
4-415C	4-489C	0.412	139.4	-6.7	-6.73	1.312	102.6	0.738	3.610	330.2	521.2	0.944	---	6.84	0.300	128.3	19.1	7.1	0.265
4-415C	4-491C	0.404	139.9	-4.4	-5.90	1.310	102.6	0.733	3.536	330.2	522.7	0.945	---	6.03	0.292	126.0	18.2	6.5	0.254
4-415C	4-493C	0.399	140.5	-2.5	-5.25	1.308	102.5	0.728	3.474	330.1	524.2	0.945	---	5.39	0.281	123.5	17.3	6.1	0.245

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4150	4-4950	0.395	141.0	-1.0	-4.72	1.306	102.5	0.724	3.422	330.1	525.6	0.945	---	4.88	0.273	121.1	16.2	5.7	0.236
4-4150	4-4970	0.392	141.5	0.3	-4.28	1.305	102.5	0.720	3.377	329.9	527.0	0.944	---	4.46	0.266	118.6	15.1	5.4	0.228
4-4150	4-4990	0.390	142.1	1.4	-3.91	1.304	102.6	0.717	3.339	329.7	528.3	0.944	---	4.10	0.260	116.1	14.0	5.1	0.221
4-4150	4-5010	0.389	142.6	2.3	-3.59	1.302	102.7	0.715	3.307	329.5	529.6	0.943	---	3.81	0.255	113.6	12.8	4.8	0.215
4-4150	4-5030	0.388	143.2	3.0	-3.32	1.302	102.8	0.713	3.279	329.2	530.8	0.942	---	3.55	0.250	111.0	11.5	4.6	0.210
4-4150	4-5050	0.388	143.8	3.7	-3.08	1.301	102.9	0.711	3.256	328.9	532.0	0.941	---	3.33	0.246	108.5	10.3	4.3	0.205
4-4150	4-5070	0.388	144.5	4.2	-2.87	1.300	103.0	0.710	3.236	328.5	533.1	0.939	---	3.13	0.243	106.0	9.0	4.1	0.201
4-4150	4-5090	0.389	145.1	4.7	-2.68	1.299	103.2	0.709	3.220	328.1	534.2	0.938	---	2.96	0.240	103.6	7.7	3.9	0.198
4-4150	4-5110	0.390	145.8	5.1	-2.51	1.299	103.3	0.708	3.206	327.6	535.3	0.936	---	2.81	0.237	101.1	6.5	3.7	0.195
4-4150	4-5130	0.392	146.5	5.4	-2.36	1.298	103.5	0.708	3.195	327.2	536.3	0.934	---	2.68	0.235	98.7	5.3	3.5	0.193
4-4150	4-5150	0.394	147.2	5.7	-2.22	1.298	103.7	0.707	3.186	326.6	537.3	0.932	---	2.56	0.234	96.4	4.1	3.3	0.191
4-4150	4-5170	0.397	148.0	5.9	-2.09	1.298	104.0	0.707	3.179	326.1	538.3	0.930	---	2.45	0.233	94.1	2.9	3.2	0.190
4-4150	4-5190	0.399	148.7	6.1	-1.97	1.298	104.2	0.708	3.174	325.5	539.2	0.928	---	2.35	0.232	91.8	1.9	3.0	0.189
4-4150	4-5210	0.402	149.5	6.2	-1.86	1.297	104.5	0.708	3.170	324.9	540.1	0.925	5.416	2.26	0.232	89.6	0.8	2.8	0.189
4-4150	4-5230	0.406	150.3	6.3	-1.76	1.297	104.7	0.709	3.168	324.2	541.0	0.922	5.414	2.18	0.232	87.5	359.9	2.7	0.189
4-4150	4-5250	0.410	151.1	6.4	-1.67	1.297	105.0	0.710	3.167	323.5	541.9	0.919	5.415	2.10	0.233	85.5	359.1	2.5	0.190
4-4150	4-5270	0.414	152.0	6.4	-1.58	1.297	105.3	0.711	3.167	322.8	542.7	0.916	5.418	2.04	0.233	83.5	358.3	2.4	0.191
4-4150	4-5290	0.418	152.8	6.4	-1.50	1.297	105.7	0.712	3.168	322.1	543.5	0.913	5.424	1.97	0.234	81.5	357.6	2.3	0.192
4-4150	4-5310	0.422	153.7	6.4	-1.42	1.297	106.0	0.713	3.170	321.3	544.2	0.909	5.432	1.92	0.235	79.6	357.1	2.1	0.193
4-4150	4-5330	0.427	154.5	6.4	-1.35	1.298	106.3	0.715	3.173	320.5	545.0	0.905	5.441	1.86	0.236	77.8	356.6	2.0	0.195
4-4150	4-5350	0.432	155.4	6.3	-1.28	1.298	106.7	0.716	3.177	319.6	545.7	0.901	5.453	1.81	0.238	76.1	356.2	1.9	0.197
4-4150	4-5370	0.438	156.3	6.2	-1.21	1.298	107.1	0.718	3.181	318.8	546.4	0.897	5.466	1.77	0.240	74.4	355.9	1.8	0.199
4-4150	4-5390	0.443	157.2	6.1	-1.15	1.298	107.5	0.720	3.187	317.9	547.1	0.893	5.480	1.73	0.241	72.8	355.6	1.7	0.202
4-4150	4-5410	0.449	158.1	6.0	-1.09	1.298	107.9	0.722	3.192	317.0	547.7	0.888	5.496	1.69	0.243	71.2	355.5	1.7	0.204
4-4150	4-5430	0.456	159.0	5.8	-1.03	1.299	108.3	0.724	3.198	316.1	548.3	0.883	5.514	1.65	0.245	69.7	355.4	1.6	0.207
4-4150	4-5450	0.462	159.9	5.7	-0.97	1.299	108.7	0.726	3.205	315.1	548.9	0.878	5.532	1.62	0.247	68.2	355.5	1.5	0.210
4-4150	4-5470	0.469	160.8	5.5	-0.92	1.299	109.1	0.728	3.212	314.1	549.5	0.873	5.552	1.59	0.250	66.8	355.6	1.5	0.213
4-4150	4-5490	0.476	161.7	5.4	-0.87	1.299	109.6	0.731	3.220	313.1	550.1	0.867	5.573	1.56	0.252	65.5	355.8	1.4	0.216
4-4150	4-5510	0.483	162.5	5.2	-0.82	1.300	110.0	0.733	3.228	312.1	550.6	0.861	5.595	1.53	0.254	64.1	356.0	1.4	0.219
4-4150	4-5530	0.490	163.4	5.0	-0.77	1.300	110.5	0.736	3.236	311.0	551.2	0.855	6.618	1.51	0.257	62.9	356.3	1.4	0.222
4-4150	4-5550	0.498	164.3	4.8	-0.72	1.300	111.0	0.738	3.245	310.0	551.7	0.849	5.641	1.48	0.259	61.6	356.7	1.3	0.226
4-4150	4-5570	0.506	165.2	4.6	-0.68	1.301	111.5	0.741	3.254	308.9	552.2	0.842	5.666	1.46	0.261	60.5	357.2	1.3	0.229
4-4150	4-5590	0.514	166.1	4.3	-0.63	1.301	112.0	0.744	3.263	307.8	552.6	0.835	5.692	1.44	0.264	59.3	357.7	1.3	0.233
4-4150	4-5610	0.523	167.0	4.1	-0.59	1.301	112.5	0.747	3.273	306.6	553.1	0.828	5.718	1.42	0.267	58.2	358.2	1.3	0.236
4-4150	4-5630	0.532	167.9	3.9	-0.54	1.302	113.1	0.750	3.283	305.5	553.5	0.821	5.745	1.41	0.269	57.1	358.9	1.3	0.240
4-4150	4-5650	0.541	168.8	3.6	-0.50	1.302	113.6	0.753	3.293	304.3	553.9	0.813	5.773	1.39	0.272	56.0	359.5	1.3	0.244
4-4150	4-5670	0.550	169.7	3.4	-0.46	1.302	114.2	0.756	3.303	303.1	554.3	0.805	5.802	1.38	0.274	55.0	0.3	1.3	0.248
4-4150	4-5690	0.560	170.5	3.1	-0.42	1.303	114.7	0.760	3.314	301.8	554.7	0.797	5.831	1.37	0.277	54.0	1.0	1.3	0.252
4-4150	4-5710	0.569	171.4	2.9	-0.38	1.303	115.3	0.763	3.325	300.6	555.1	0.788	5.861	1.35	0.280	53.0	1.8	1.3	0.256
4-4150	4-5730	0.579	172.3	2.6	-0.34	1.303	115.9	0.766	3.336	299.3	555.4	0.779	5.892	1.34	0.282	52.1	2.7	1.3	0.260
4-4150	4-5750	0.590	173.1	2.3	-0.30	1.304	116.5	0.770	3.347	298.0	555.7	0.770	5.923	1.34	0.285	51.1	3.6	1.3	0.264
4-4160	4-4520	0.636	160.5	14.9	2.74	1.511	108.5	1.254-3.574		326.8	479.8	0.907	---	-2.85	0.805	160.9	24.1	0.3	0.769
4-4160	4-4540	0.597	159.6	16.1	2.92	1.483	107.4	1.178-5.135		327.9	482.5	0.915	---	-3.00	0.750	159.7	24.5	0.2	0.715
4-4160	4-4560	0.563	158.8	17.3	3.12	1.459	106.3	1.114-8.102		329.1	485.2	0.923	---	-3.18	0.701	158.5	24.8	0.1	0.666
4-4160	4-4580	0.534	158.0	18.6	3.34	1.438	105.4	1.05915.825		330.1	487.8	0.930	---	-3.39	0.656	157.2	25.0	-0.1	0.621
4-4160	4-4600	0.509	157.3	20.0	3.59	1.420	104.5	1.01182.240		331.2	490.3	0.936	---	-3.62	0.616	155.9	25.2	-0.3	0.581
4-4160	4-4620	0.487	156.6	21.5	3.88	1.405	103.7	0.97031.852		332.2	492.8	0.941	---	-3.89	0.579	154.4	25.4	-0.5	0.545
4-4160	4-4640	0.469	156.1	23.1	4.21	1.391	103.0	0.93514.539		333.1	495.3	0.946	---	-4.21	0.546	153.0	25.5	-0.7	0.512
4-4160	4-4660	0.453	155.7	25.0	4.61	1.380	102.3	0.904	9.904	334.0	497.7	0.950	---	-4.59	0.516	151.4	25.6	-1.0	0.481
4-4160	4-4680	0.441	155.5	27.0	5.08	1.370	101.8	0.877	7.764	334.8	500.0	0.953	---	-5.04	0.488	149.8	25.5	-1.4	0.453
4-4160	4-4700	0.431	155.5	29.3	5.66	1.361	101.2	0.854	6.539	335.6	502.2	0.957	---	-5.60	0.463	148.1	25.4	-1.9	0.428
4-4160	4-4720	0.424	155.9	32.0	6.38	1.353	100.8	0.833	5.750	336.2	504.4	0.959	---	-6.30	0.439	146.4	25.3	-2.5	0.405
4-4160	4-4740	0.420	156.8	35.2	7.30	1.346	100.4	0.815	5.203	336.8	506.5	0.962	---	-7.21	0.418	144.6	25.0	-3.3	0.383
4-4160	4-4760	0.421	158.5	39.1	8.53	1.340	100.0	0.799	4.803	337.4	508.6	0.964	---	-8.43	0.398	142.7	24.7	-4.3	0.364
4-4160	4-4780	0.429	161.6	44.0	10.27	1.335	99.7	0.785	4.501	337.9	510.5	0.965	---	-10.14	0.380	140.7	24.2	-5.8	0.347
4-4160	4-4800	0.451	167.3	50.2	12.87	1.330	99.4	0.773	4.266	338.3	512.5	0.967	---	-12.73	0.364	138.7	23.5	-7.9	0.333
4-4160	4-4820	0.500	179.5	57.8	17.22	1.326	99.2	0.763	4.078	338.7	514.3	0.968	---	-17.06	0.349	136.6	22.5	-11.4	0.324
4-4160	4-4840	0.624	209.0	64.3	25.75	1.323	99.0	0.753	3.927	339.1	516.1	0.969	---	-25.57	0.335	134.4	20.3	-17.4	0.327
4-4160	4-4860	0.988	256.3	55.4	47.61	1.320	98.7	0.745	3.803	339.5	517.8	0.971	---	-47.41	0.322	132.2	13.5	-26.9	0.380
4-4160	4-4880	1.444	284.5	-84.0	-75.62	1.317	99.3	0.739	3.700	338.1	519.5	0.967	---	75.83	0.311	130.1	0.7	29.3	0.472
4-4160	4-4900	0.768	124.0	-62.5	-34.85	1.315	98.9	0.732	3.615	338.8	521.0	0.969	---	35.07	0.300	127.7	13.0	25.9	0.321
4-4160	4-4920	0.539	128.1	-43.1	-20.83	1.312	98.8	0.726	3.543	339.0	522.6	0.970	---	21.07	0.291	125.3	16.2	19.0	0.274
4-4160	4-4940	0.451	131.1	-30.6	-14.61	1.311	98.8	0.721	3.482	339.0	524.1	0.970	---	14.87	0.282	122.9	16.6	14.8	0.253
4-4160	4-4960	0.409	133.3	-22.0	-11.18	1.309	98.8	0.717	3.430	339.0	525.5	0.970	---	11.46	0.275	120.5	16.2	12.2	0.240
4-4160	4-4980	0.387	135.0	-16.0	-9.02	1.307	98.8	0.714	3.386	338.9	526.9	0.970	---	9.31	0.268	118.0	15.4	10.4	0.230
4-4160	4-5000	0.373	136.4	-11.6	-7.53	1.306	98.8	0.711	3.349	338.7	528.2	0.969	---	7.84	0.262	115.5	14.4	9.2	0.221
4-4160	4-5020	0.365	137.6	-8.2	-6.45	1.305	98.9	0.708	3.317	338.5	529.5	0.969	---	6.78	0.257	113.1	13.4	8.2	0.214
4-4160	4-5040	0.360	138.7	-5.6	-5.62	1.304	99.0	0.706	3.291	338.2	530.7	0.968	---	5.97	0.252	110.6	12.2	7.4	0.208
4-4160	4-5060	0.356	139.7	-3.5	-4.97	1.303	99.1	0.704	3.268	337.9	531.9	0.967	---	5.33	0.248	108.1	11.0	6.8	0.203
4-4160	4-5080	0.354	140.7	-1.8	-4.44	1.303	99.3	0.703	3.249	337.5	533.0	0.966	---	4.82	0.245	105.7	9.8	6.2	0.199
4-4160	4-5100	0.353	141.7	-0.5	-4.00	1.302	99.4	0.701	3.233	337.1	534.2	0.965	---	4.40	0.242	103.3	8.6	5.8	0.196
4-4160	4-5120	0.353	142.7	0.6	-3.64	1.302	99.6	0.701	3.220	336.7	535.2	0.964	---	4.05	0.240	100.9	7.3	5.4	0.193
4-4160	4-5140	0.353	143.6	1.6	-3.32	1.301	99.8	0.700	3.209	336.2	536.3	0.963	---	3.76	0.238	98.6	6.1	5.0	0.191
4-4160	4-5160	0.354	144.6	2.3	-3.05	1.301	100.0	0.700	3.200	335.7	537.3	0.961	---	3.50	0.237	96.3	5.0	4.6	0.189
4-4160	4-5180	0.355	145.6	3.0	-2.81	1.301	100.2	0.699	3.193	335.1	538.3	0.960	---	3.28	0.236	94.1	3.9	4.3	0.187
4-4160	4-5200	0.357	146.6	3.5	-2.60	1.300	100.4	0.700	3.188	334.5	539.2	0.958	---	3.09	0.236	91.9	2.8	4.1	0.187
4-4160	4-5220	0.359	147.6	3.9	-2.42	1.300	100.7	0.700	3.185	333.9	540.1	0.956	5.414	2.92	0.235	89.8	1.8	3.8	0.186
4-4160	4-5240	0.361	148.6	4.2	-2.25	1.300	101.0	0.700	3.183	333.3	541.0	0.954	5.412	2.77	0.236	87.7	0.9	3.6	0.186
4-4160	4-5260	0.364	149.7	4.5	-2.10	1.300	101.3	0.701	3.182	332.6	541.8	0.952	5.412	2.64	0.236	85.7	0.1	3.3	0.187
4-4160	4-5280	0.367	150.7	4.7	-1.96	1.300	101.5	0.702	3.182	331.9	542.7	0.949	5.415	2.52	0.237	83.8	359.3	3.1	0.187

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4160	4-5300	0.370	151.8	4.9	-1.83	1.300	101.9	0.703	3.184	331.1	543.5	0.947	5.421	2.41	0.238	81.9	358.6	2.9	0.188
4-4160	4-5320	0.374	152.8	5.0	-1.72	1.300	102.2	0.704	3.186	330.4	544.2	0.944	5.428	2.31	0.239	80.1	358.1	2.8	0.190
4-4160	4-5340	0.378	153.9	5.0	-1.61	1.300	102.5	0.705	3.189	329.6	545.0	0.941	5.437	2.22	0.240	78.4	357.6	2.6	0.191
4-4160	4-5360	0.382	155.0	5.0	-1.51	1.301	102.9	0.706	3.193	328.8	545.7	0.938	5.448	2.14	0.241	76.7	357.2	2.5	0.193
4-4160	4-5380	0.387	156.0	5.0	-1.41	1.301	103.2	0.708	3.197	327.9	546.4	0.935	5.460	2.07	0.243	75.0	356.9	2.3	0.195
4-4160	4-5400	0.391	157.1	5.0	-1.33	1.301	103.6	0.709	3.203	327.0	547.1	0.931	5.474	2.00	0.245	73.5	356.6	2.2	0.197
4-4160	4-5420	0.396	158.2	4.9	-1.25	1.301	104.0	0.711	3.208	326.2	547.8	0.927	5.489	1.94	0.247	72.0	356.5	2.1	0.200
4-4160	4-5440	0.402	159.2	4.8	-1.17	1.301	104.4	0.713	3.215	325.2	548.4	0.924	5.506	1.88	0.249	70.5	356.4	2.0	0.202
4-4160	4-5460	0.407	160.3	4.7	-1.09	1.302	104.8	0.715	3.221	324.3	549.0	0.920	5.523	1.83	0.251	69.1	356.4	1.9	0.205
4-4160	4-5480	0.413	161.4	4.5	-1.03	1.302	105.2	0.717	3.229	323.3	549.6	0.915	5.542	1.78	0.253	67.8	356.5	1.8	0.207
4-4160	4-5500	0.419	162.5	4.3	-0.96	1.302	105.6	0.719	3.236	322.3	550.2	0.911	5.562	1.74	0.255	66.5	356.7	1.8	0.210
4-4160	4-5520	0.425	163.5	4.2	-0.90	1.302	106.1	0.721	3.244	321.3	550.8	0.906	5.583	1.70	0.258	65.2	356.9	1.7	0.213
4-4160	4-5540	0.432	164.6	4.0	-0.84	1.303	106.5	0.723	3.253	320.3	551.3	0.901	5.605	1.66	0.260	64.0	357.2	1.6	0.216
4-4160	4-5560	0.439	165.6	3.7	-0.78	1.303	107.0	0.725	3.262	319.2	551.9	0.896	5.627	1.62	0.262	62.8	357.6	1.6	0.220
4-4160	4-5580	0.446	166.7	3.5	-0.72	1.303	107.5	0.728	3.271	318.2	552.4	0.891	5.651	1.59	0.265	61.7	358.0	1.6	0.223
4-4160	4-5600	0.453	167.7	3.3	-0.67	1.304	108.0	0.730	3.280	317.1	552.9	0.885	5.675	1.56	0.267	60.6	358.5	1.5	0.226
4-4160	4-5620	0.461	168.8	3.0	-0.62	1.304	108.5	0.733	3.290	316.0	553.3	0.879	5.701	1.53	0.270	59.5	359.1	1.5	0.230
4-4160	4-5640	0.469	169.8	2.8	-0.57	1.304	109.0	0.735	3.300	314.8	553.8	0.873	5.726	1.50	0.272	58.5	359.7	1.5	0.233
4-4160	4-5660	0.477	170.8	2.5	-0.52	1.305	109.5	0.738	3.310	313.7	554.2	0.867	5.753	1.48	0.275	57.5	0.3	1.5	0.237
4-4160	4-5680	0.485	171.8	2.2	-0.47	1.305	110.0	0.741	3.320	312.5	554.7	0.860	5.781	1.46	0.278	56.5	1.0	1.5	0.240
4-4160	4-5700	0.494	172.8	1.9	-0.43	1.306	110.6	0.744	3.331	311.3	555.1	0.853	5.809	1.44	0.280	55.5	1.8	1.5	0.244
4-4160	4-5720	0.503	173.8	1.7	-0.38	1.306	111.1	0.747	3.342	310.1	556.5	0.846	5.837	1.42	0.283	54.6	2.6	1.5	0.248
4-4160	4-5740	0.512	174.8	1.4	-0.34	1.306	111.7	0.750	3.352	308.8	555.8	0.838	5.867	1.40	0.285	53.7	3.4	1.5	0.251
4-4160	4-5760	0.521	175.8	1.1	-0.30	1.307	112.3	0.753	3.364	307.6	556.2	0.830	5.897	1.38	0.288	52.8	4.3	1.5	0.255
4-4170	4-4510	0.617	160.9	13.4	2.03	1.541	104.9	1.341-2.745		334.0	476.4	0.937	---	-2.02	0.856	161.4	24.7	0.6	0.817
4-4170	4-4530	0.575	159.7	14.4	2.12	1.508	103.8	1.250-3.779		335.3	479.2	0.944	---	-2.10	0.795	160.3	25.1	0.6	0.757
4-4170	4-4550	0.539	158.4	15.5	2.22	1.481	102.7	1.173-5.502		336.5	481.9	0.950	---	-2.18	0.741	159.1	25.4	0.5	0.703
4-4170	4-4570	0.508	157.1	16.6	2.32	1.457	101.7	1.107-8.906		337.7	484.7	0.956	---	-2.26	0.693	157.9	25.7	0.4	0.655
4-4170	4-4590	0.482	155.8	17.8	2.44	1.437	100.8	1.05218.649		338.9	487.4	0.961	---	-2.36	0.649	156.6	25.9	0.3	0.611
4-4170	4-4610	0.458	154.6	18.9	2.56	1.419	100.0	1.00459.572		340.0	490.0	0.965	---	-2.47	0.609	155.2	26.1	0.2	0.572
4-4170	4-4630	0.439	153.4	20.1	2.70	1.404	99.3	0.96325.929		341.1	492.6	0.969	---	-2.59	0.573	153.8	26.2	0.1	0.536
4-4170	4-4650	0.422	152.3	21.4	2.85	1.391	98.6	0.92713.336		342.1	495.1	0.972	---	-2.72	0.540	152.3	26.3	0.0	0.503
4-4170	4-4670	0.407	151.2	22.7	3.01	1.380	98.0	0.896	9.402	343.0	497.5	0.974	---	-2.87	0.510	150.8	26.3	-0.2	0.473
4-4170	4-4690	0.394	150.2	24.0	3.20	1.370	97.5	0.870	7.493	343.9	499.9	0.977	---	-3.04	0.483	149.1	26.3	-0.3	0.446
4-4170	4-4710	0.384	149.4	25.3	3.41	1.361	97.0	0.846	6.371	344.7	502.2	0.979	---	-3.23	0.458	147.4	26.2	-0.5	0.420
4-4170	4-4730	0.375	148.7	26.7	3.65	1.354	96.6	0.826	5.637	345.4	504.4	0.980	---	-3.45	0.435	145.7	26.0	-0.8	0.397
4-4170	4-4750	0.368	148.1	28.2	3.92	1.347	96.2	0.808	5.123	346.0	506.6	0.982	---	-3.71	0.414	143.8	25.7	-1.1	0.376
4-4170	4-4770	0.362	147.8	29.8	4.24	1.341	95.9	0.793	4.745	346.6	508.6	0.983	---	-4.01	0.395	141.9	25.4	-1.4	0.356
4-4170	4-4790	0.357	147.6	31.6	4.61	1.336	95.7	0.779	4.457	347.1	510.6	0.984	---	-4.36	0.377	140.0	25.0	-1.8	0.338
4-4170	4-4810	0.354	147.7	33.6	5.06	1.332	95.4	0.767	4.232	347.5	512.6	0.985	---	-4.79	0.361	137.9	24.6	-2.3	0.322
4-4170	4-4830	0.353	148.1	35.8	5.60	1.328	95.2	0.757	4.053	347.8	514.4	0.985	---	-5.32	0.346	135.8	24.0	-2.9	0.307
4-4170	4-4850	0.353	148.9	38.4	6.28	1.325	95.1	0.748	3.907	348.1	516.2	0.986	---	-5.98	0.333	133.7	23.4	-3.7	0.293
4-4170	4-4870	0.357	150.2	41.4	7.15	1.321	94.9	0.740	3.788	348.4	517.9	0.986	---	-6.83	0.321	131.5	22.6	-4.7	0.281
4-4170	4-4890	0.364	152.4	45.2	8.30	1.319	94.9	0.733	3.689	348.5	519.6	0.987	---	-7.97	0.309	129.2	21.8	-5.9	0.270
4-4170	4-4910	0.377	156.0	50.0	9.92	1.316	94.8	0.726	3.607	348.6	521.2	0.987	---	-9.58	0.299	126.9	20.9	-7.7	0.261
4-4170	4-4930	0.403	162.5	56.1	12.35	1.314	94.7	0.721	3.537	348.7	522.7	0.987	---	-11.98	0.290	124.5	19.8	-10.2	0.254
4-4170	4-4950	0.455	176.3	63.6	16.36	1.313	94.7	0.716	3.479	348.7	524.2	0.987	---	-15.98	0.282	122.1	18.4	-14.2	0.252
4-4170	4-4970	0.574	211.4	69.6	24.19	1.311	94.7	0.712	3.429	348.7	525.6	0.987	---	-23.80	0.275	119.7	16.2	-20.7	0.263
4-4170	4-4990	0.918	264.4	59.9	44.24	1.310	94.7	0.709	3.387	348.8	527.0	0.987	---	-43.83	0.268	117.2	10.6	-30.2	0.323
4-4170	4-5010	1.490	332.0	-77.9	-79.05	1.308	95.4	0.706	3.351	347.0	528.3	0.984	---	79.48	0.262	114.9	358.3	30.8	0.457
4-4170	4-5030	0.753	111.7	-64.5	-34.83	1.307	95.2	0.703	3.320	347.4	529.6	0.985	---	35.27	0.257	112.4	7.7	29.5	0.283
4-4170	4-5050	0.510	122.4	-44.7	-20.27	1.306	95.2	0.701	3.294	347.3	530.8	0.985	---	20.73	0.253	110.0	10.2	21.8	0.233
4-4170	4-5070	0.419	127.3	-31.6	-14.01	1.306	95.3	0.699	3.273	347.1	532.0	0.985	---	14.49	0.249	107.5	10.2	16.7	0.214
4-4170	4-5090	0.378	130.5	-22.7	-10.61	1.305	95.4	0.698	3.254	346.7	533.2	0.984	---	11.10	0.246	105.2	9.5	13.5	0.205
4-4170	4-5110	0.356	132.9	-16.3	-8.48	1.304	95.6	0.696	3.239	346.3	534.3	0.983	---	8.99	0.244	102.8	8.6	11.3	0.198
4-4170	4-5130	0.344	134.9	-11.7	-7.03	1.304	95.8	0.695	3.227	345.9	535.3	0.983	---	7.56	0.242	100.5	7.5	9.7	0.194
4-4170	4-5150	0.337	136.7	-8.2	-5.97	1.304	96.0	0.695	3.216	345.4	536.4	0.982	---	6.52	0.240	98.2	6.4	8.5	0.191
4-4170	4-5170	0.333	138.3	-5.5	-5.17	1.303	96.2	0.694	3.208	344.9	537.4	0.981	---	5.73	0.239	95.9	5.4	7.5	0.188
4-4170	4-5190	0.330	139.9	-3.4	-4.54	1.303	96.4	0.694	3.202	344.4	538.3	0.980	---	5.11	0.238	93.8	4.3	6.8	0.187
4-4170	4-5210	0.329	141.3	-1.7	-4.03	1.303	96.6	0.694	3.198	343.8	539.3	0.979	---	4.62	0.238	91.6	3.3	6.1	0.186
4-4170	4-5230	0.329	142.7	-0.4	-3.61	1.303	96.9	0.694	3.195	343.2	540.2	0.977	5.412	4.22	0.238	89.6	2.4	5.6	0.185
4-4170	4-5250	0.329	144.1	0.6	-3.25	1.303	97.2	0.694	3.193	342.5	541.1	0.976	5.410	3.88	0.238	87.6	1.5	5.1	0.185
4-4170	4-5270	0.330	145.5	1.5	-2.95	1.303	97.4	0.695	3.193	341.8	541.9	0.975	5.411	3.59	0.239	85.6	0.7	4.7	0.185
4-4170	4-5290	0.332	146.8	2.2	-2.69	1.303	97.7	0.695	3.193	341.1	542.7	0.973	5.414	3.35	0.239	83.8	360.0	4.3	0.185
4-4170	4-5310	0.334	148.2	2.7	-2.46	1.303	98.0	0.696	3.195	340.4	543.6	0.971	5.419	3.14	0.240	82.0	359.3	4.0	0.186
4-4170	4-5330	0.336	149.5	3.1	-2.26	1.303	98.4	0.697	3.198	339.6	544.3	0.969	5.426	2.95	0.241	80.2	358.8	3.7	0.187
4-4170	4-5350	0.338	150.9	3.5	-2.08	1.303	98.7	0.698	3.201	338.8	545.1	0.967	5.435	2.79	0.243	78.5	358.3	3.4	0.189
4-4170	4-5370	0.341	152.2	3.7	-1.92	1.303	99.0	0.699	3.205	338.0	545.8	0.965	5.445	2.65	0.244	76.9	357.9	3.2	0.190
4-4170	4-5390	0.345	153.6	3.8	-1.77	1.303	99.4	0.700	3.210	337.2	546.5	0.963	5.457	2.52	0.246	75.4	357.6	3.0	0.192
4-4170	4-5410	0.348	154.9	3.9	-1.64	1.304	99.7	0.701	3.215	336.3	547.2	0.960	5.470	2.40	0.248	73.8	357.4	2.8	0.194
4-4170	4-5430	0.352	156.2	4.0	-1.51	1.304	100.1	0.703	3.221	335.4	547.9	0.958	5.485	2.30	0.250	72.4	357.2	2.6	0.196
4-4170	4-5450	0.356	157.5	4.0	-1.40	1.304	100.5	0.704	3.228	334.5	548.5	0.955	5.501	2.21	0.252	71.0	357.2	2.5	0.199
4-4170	4-5470	0.360	158.9	3.9	-1.30	1.304	100.9	0.706	3.235	333.6	549.2	0.952	5.518	2.12	0.254	69.7	357.2	2.4	0.201
4-4170	4-5490	0.365	160.2	3.8	-1.20	1.305	101.3	0.707	3.242	332.6	549.8	0.949	5.536	2.04	0.256	68.4	357.3	2.2	0.204
4-4170	4-5510	0.370	161.5	3.7	-1.11	1.305	101.7	0.709	3.250	331.6	550.4	0.945	5.555	1.97	0.258	67.1	357.5	2.1	0.206
4-4170	4-5530	0.375	162.8	3.5	-1.03	1.305	102.2	0.711	3.259	330.6	550.9	0.942	5.575	1.91	0.261	65.9	357.7	2.1	0.209
4-4170	4-5550	0.381	164.1	3.3	-0.95	1.305	102.6	0.713	3.267	329.6	551.5	0.938	5.596	1.85	0.263	64.7	358.0	2.0	0.212
4-4170	4-5570	0.386	165.3	3.1	-0.88	1.306	103.0	0.715	3.276	328.6	552.0	0.934	5.618	1.79	0.265	63.6	358.4	1.9	0.215
4-4170	4-5590	0.392	166.6	2.9	-0.81	1.306	103.5	0.717	3.285	327.5	552.6	0.930	5.641	1.74	0.268	62.5	358.8	1.8	0.218
4-4170	4-5610	0.399	167.8	2.7	-0.74	1.306	104.0	0.719	3.295	326.4	553.1	0.926	5.664	1.70	0.270	61.5	359.3	1.8	0.221

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4170	4-5630	0.405	169.1	2.4	-0.68	1.307	104.4	0.721	3.305	325.3	553.6	0.921	5.688	1.65	0.273	60.5	359.8	1.7	0.224
4-4170	4-5650	0.412	170.3	2.1	-0.62	1.307	104.9	0.724	3.315	324.2	554.1	0.916	5.713	1.61	0.275	59.5	0.4	1.7	0.228
4-4170	4-5670	0.419	171.5	1.8	-0.56	1.307	105.4	0.726	3.325	323.1	554.5	0.911	5.739	1.58	0.278	58.5	1.1	1.7	0.231
4-4170	4-5690	0.426	172.7	1.5	-0.50	1.308	105.9	0.728	3.335	321.9	555.0	0.906	5.765	1.54	0.280	57.6	1.8	1.7	0.234
4-4170	4-5710	0.434	173.9	1.2	-0.45	1.308	106.5	0.731	3.346	320.7	555.4	0.900	5.792	1.51	0.283	56.7	2.5	1.6	0.238
4-4170	4-5730	0.442	175.1	0.9	-0.40	1.309	107.0	0.734	3.357	319.5	555.8	0.894	5.820	1.48	0.286	55.8	3.3	1.6	0.241
4-4170	4-5750	0.450	176.3	0.6	-0.35	1.309	107.5	0.736	3.368	318.3	556.2	0.888	5.848	1.46	0.288	55.0	4.1	1.6	0.245
4-4170	4-5770	0.458	177.4	0.2	-0.30	1.309	108.1	0.739	3.379	317.1	556.6	0.882	5.877	1.43	0.291	54.1	5.0	1.6	0.248
4-4180	4-4500	0.608	160.2	12.9	1.65	1.573	100.9	1.441	-2.181	341.6	473.2	0.962	---	-1.53	0.909	161.9	25.2	0.8	0.867
4-4180	4-4520	0.563	158.5	14.0	1.70	1.535	99.8	1.330	-2.928	342.9	476.1	0.967	---	-1.57	0.842	160.9	25.5	0.8	0.801
4-4180	4-4540	0.525	156.9	15.1	1.76	1.504	98.7	1.238	-4.079	344.3	479.0	0.972	---	-1.61	0.783	159.7	25.9	0.8	0.742
4-4180	4-4560	0.493	155.0	16.2	1.82	1.477	97.7	1.161	-6.063	345.6	481.8	0.976	---	-1.65	0.730	158.5	26.1	0.7	0.689
4-4180	4-4580	0.465	153.3	17.3	1.89	1.454	96.8	1.096	10.237	346.9	484.7	0.979	---	-1.70	0.682	157.3	26.4	0.7	0.642
4-4180	4-4600	0.442	151.5	18.4	1.96	1.434	96.0	1.040	24.437	348.2	487.4	0.982	---	-1.75	0.639	156.0	26.6	0.6	0.599
4-4180	4-4620	0.422	149.8	19.6	2.03	1.417	95.3	0.993	38.700	349.4	490.1	0.984	---	-1.80	0.600	154.6	26.7	0.6	0.561
4-4180	4-4640	0.405	148.1	20.7	2.11	1.403	94.6	0.952	20.695	350.5	492.8	0.986	---	-1.87	0.565	153.2	26.8	0.5	0.526
4-4180	4-4660	0.390	146.5	21.7	2.19	1.390	94.0	0.918	11.966	351.6	495.3	0.987	---	-1.93	0.532	151.7	26.8	0.4	0.493
4-4180	4-4680	0.378	145.0	22.8	2.28	1.379	93.5	0.887	8.778	352.6	497.8	0.988	---	-2.01	0.503	150.1	26.8	0.3	0.464
4-4180	4-4700	0.368	143.6	23.8	2.38	1.370	93.0	0.861	7.136	353.5	500.3	0.989	---	-2.09	0.476	148.5	26.7	0.2	0.437
4-4180	4-4720	0.359	142.3	24.8	2.48	1.361	92.6	0.839	6.140	354.3	502.6	0.990	---	-2.17	0.452	146.8	26.6	0.1	0.412
4-4180	4-4740	0.351	141.1	25.8	2.60	1.354	92.2	0.819	5.476	355.0	504.8	0.991	---	-2.27	0.429	145.0	26.4	-0.1	0.390
4-4180	4-4760	0.345	140.1	26.8	2.72	1.348	91.9	0.802	5.004	355.7	507.0	0.991	---	-2.38	0.408	143.1	26.1	-0.2	0.369
4-4180	4-4780	0.340	139.2	27.7	2.86	1.342	91.7	0.787	4.655	356.3	509.1	0.991	---	-2.50	0.390	141.2	25.7	-0.4	0.350
4-4180	4-4800	0.335	138.5	28.7	3.01	1.337	91.4	0.774	4.386	356.8	511.1	0.992	---	-2.64	0.372	139.2	25.3	-0.6	0.332
4-4180	4-4820	0.331	138.0	29.7	3.18	1.333	91.2	0.762	4.176	357.2	513.0	0.992	---	-2.79	0.357	137.2	24.8	-0.9	0.316
4-4180	4-4840	0.328	137.6	30.7	3.37	1.329	91.1	0.752	4.007	357.5	514.9	0.992	---	-2.97	0.342	135.1	24.2	-1.1	0.301
4-4180	4-4860	0.326	137.4	31.8	3.59	1.326	90.9	0.744	3.870	357.8	516.7	0.992	---	-3.17	0.329	132.9	23.5	-1.4	0.287
4-4180	4-4880	0.324	137.3	33.0	3.84	1.323	90.8	0.736	3.757	358.0	518.4	0.992	---	-3.40	0.317	130.7	22.8	-1.8	0.274
4-4180	4-4900	0.323	137.5	34.2	4.13	1.320	90.8	0.729	3.664	358.1	520.0	0.992	---	-3.68	0.306	128.4	22.0	-2.2	0.263
4-4180	4-4920	0.323	137.9	35.6	4.47	1.318	90.7	0.723	3.586	358.2	521.6	0.992	---	-4.00	0.297	126.0	21.1	-2.7	0.253
4-4180	4-4940	0.323	138.5	37.3	4.87	1.316	90.7	0.718	3.520	358.2	523.1	0.992	---	-4.39	0.288	123.7	20.2	-3.3	0.243
4-4180	4-4960	0.325	139.4	39.1	5.36	1.314	90.8	0.714	3.464	358.2	524.6	0.992	---	-4.87	0.280	121.3	19.1	-4.0	0.235
4-4180	4-4980	0.328	140.6	41.4	5.98	1.313	90.8	0.710	3.417	358.1	526.0	0.992	---	-5.46	0.273	118.9	18.1	-4.8	0.227
4-4180	4-5000	0.332	142.4	44.1	6.76	1.311	90.9	0.706	3.377	357.9	527.4	0.992	---	-6.23	0.267	116.4	16.9	-5.9	0.221
4-4180	4-5020	0.340	144.8	47.6	7.81	1.310	90.9	0.703	3.343	357.7	528.7	0.992	---	-7.26	0.261	114.0	15.8	-7.2	0.216
4-4180	4-5040	0.354	148.5	52.0	9.26	1.309	91.0	0.701	3.315	357.5	529.9	0.992	---	-8.70	0.257	111.6	14.6	-9.1	0.212
4-4180	4-5060	0.378	154.7	57.9	11.44	1.308	91.1	0.699	3.290	357.2	531.2	0.992	---	-10.86	0.253	109.1	13.3	-11.7	0.210
4-4180	4-5080	0.424	167.3	65.5	15.02	1.308	91.3	0.697	3.270	356.9	532.3	0.992	---	-14.43	0.249	106.7	11.9	-15.6	0.213
4-4180	4-5100	0.530	202.5	73.2	21.96	1.307	91.4	0.695	3.253	356.6	533.5	0.992	---	-21.36	0.246	104.4	10.3	-22.1	0.226
4-4180	4-5120	0.837	268.1	65.5	39.84	1.307	91.5	0.694	3.239	356.4	534.6	0.991	---	-39.22	0.244	102.0	7.4	-31.6	0.285
4-4180	4-5140	1.551	347.5	-70.4	-83.13	1.306	92.3	0.693	3.227	354.4	535.6	0.990	---	83.77	0.242	99.8	358.3	30.8	0.462
4-4180	4-5160	0.735	102.9	-63.2	-34.03	1.306	92.2	0.692	3.218	354.6	536.6	0.990	---	34.68	0.241	97.5	2.9	31.0	0.265
4-4180	4-5180	0.484	119.2	-43.3	-19.11	1.305	92.4	0.692	3.211	354.2	537.6	0.990	---	19.77	0.240	95.3	4.0	22.4	0.214
4-4180	4-5200	0.396	125.6	-30.0	-12.97	1.305	92.6	0.691	3.206	353.7	538.6	0.990	---	13.65	0.239	93.2	3.7	16.7	0.198
4-4180	4-5220	0.357	129.6	-21.0	-9.70	1.305	92.8	0.691	3.202	353.2	539.5	0.989	---	10.39	0.239	91.1	3.1	13.2	0.191
4-4180	4-5240	0.337	132.7	-14.7	-7.67	1.305	93.0	0.691	3.200	352.5	540.4	0.989	5.410	8.38	0.239	89.1	2.3	10.8	0.188
4-4180	4-5260	0.327	135.2	-10.1	-6.30	1.305	93.3	0.691	3.199	351.9	541.3	0.988	5.409	7.02	0.239	87.2	1.6	9.1	0.186
4-4180	4-5280	0.320	137.4	-6.8	-5.30	1.305	93.6	0.691	3.199	351.2	542.1	0.988	5.410	6.04	0.240	85.3	0.9	7.9	0.186
4-4180	4-5300	0.317	139.4	-4.3	-4.55	1.305	93.9	0.692	3.200	350.5	542.9	0.987	5.413	5.31	0.241	83.5	0.2	6.9	0.186
4-4180	4-5320	0.315	141.3	-2.3	-3.96	1.305	94.2	0.692	3.202	349.7	543.7	0.986	5.418	4.73	0.242	81.7	359.6	6.1	0.186
4-4180	4-5340	0.314	143.2	-0.8	-3.48	1.305	94.5	0.693	3.205	349.0	544.5	0.985	5.425	4.27	0.243	80.0	359.1	5.4	0.187
4-4180	4-5360	0.314	145.0	0.3	-3.09	1.305	94.8	0.693	3.209	348.2	545.3	0.984	5.434	3.89	0.245	78.4	358.7	4.9	0.188
4-4180	4-5380	0.315	146.7	1.2	-2.76	1.306	95.2	0.694	3.214	347.4	546.0	0.982	5.445	3.58	0.246	76.8	358.3	4.5	0.189
4-4180	4-5400	0.316	148.4	1.9	-2.48	1.306	95.5	0.695	3.219	346.5	546.7	0.981	5.456	3.31	0.248	75.3	358.1	4.1	0.191
4-4180	4-5420	0.318	150.1	2.4	-2.23	1.306	95.9	0.696	3.225	345.7	547.4	0.980	5.470	3.09	0.250	73.9	357.9	3.7	0.193
4-4180	4-5440	0.320	151.7	2.8	-2.02	1.306	96.3	0.697	3.231	344.8	548.0	0.978	5.484	2.89	0.252	72.5	357.8	3.5	0.195
4-4180	4-5460	0.322	153.4	3.1	-1.83	1.306	96.6	0.699	3.238	343.9	548.7	0.976	5.500	2.72	0.254	71.2	357.8	3.2	0.197
4-4180	4-5480	0.325	155.0	3.2	-1.67	1.307	97.0	0.700	3.245	342.9	549.3	0.974	5.516	2.57	0.256	69.9	357.8	3.0	0.199
4-4180	4-5500	0.328	156.6	3.3	-1.52	1.307	97.4	0.701	3.253	342.0	549.9	0.972	5.534	2.43	0.258	68.6	357.9	2.8	0.201
4-4180	4-5520	0.332	158.2	3.3	-1.38	1.307	97.8	0.703	3.261	341.0	550.5	0.970	5.552	2.32	0.261	67.4	358.1	2.6	0.204
4-4180	4-5540	0.335	159.8	3.3	-1.26	1.308	98.2	0.704	3.270	340.0	551.1	0.968	5.572	2.21	0.263	66.3	358.3	2.5	0.207
4-4180	4-5560	0.339	161.4	3.2	-1.15	1.308	98.7	0.706	3.279	339.0	551.7	0.965	5.592	2.11	0.265	65.2	358.7	2.4	0.209
4-4180	4-5580	0.344	163.0	3.0	-1.04	1.308	99.1	0.707	3.288	338.0	552.2	0.962	5.613	2.03	0.268	64.1	359.0	2.3	0.212
4-4180	4-5600	0.348	164.5	2.8	-0.95	1.309	99.6	0.709	3.297	336.9	552.8	0.959	5.635	1.95	0.270	63.0	359.5	2.2	0.215
4-4180	4-5620	0.353	166.0	2.6	-0.86	1.309	100.0	0.711	3.307	335.8	553.3	0.956	5.658	1.88	0.273	62.0	360.0	2.1	0.218
4-4180	4-5640	0.358	167.6	2.3	-0.77	1.309	100.5	0.713	3.317	334.7	553.8	0.953	5.681	1.81	0.275	61.1	0.5	2.0	0.221
4-4180	4-5660	0.364	169.0	2.0	-0.70	1.310	101.0	0.715	3.327	333.6	554.3	0.949	5.705	1.75	0.278	60.1	1.1	1.9	0.224
4-4180	4-5680	0.369	170.5	1.7	-0.62	1.310	101.4	0.717	3.338	332.5	554.8	0.945	5.730	1.70	0.280	59.2	1.7	1.9	0.227
4-4180	4-5700	0.375	172.0	1.4	-0.55	1.310	101.9	0.719	3.348	331.3	555.2	0.941	5.755	1.65	0.283	58.4	2.4	1.9	0.230
4-4180	4-5720	0.382	173.4	1.1	-0.49	1.311	102.4	0.721	3.359	330.2	555.7	0.937	5.781	1.60	0.285	57.5	3.2	1.8	0.233
4-4180	4-5740	0.388	174.8	0.7	-0.43	1.311	103.0	0.723	3.370	329.0	556.1	0.933	5.808	1.56	0.288	56.7	3.9	1.8	0.236
4-4180	4-5760	0.395	176.2	0.3	-0.37	1.311	103.5	0.726	3.382	327.8	556.5	0.928	5.835	1.52	0.291	55.9	4.8	1.8	0.240
4-4180	4-5780	0.402	177.6	-0.0	-0.31	1.312	104.0	0.728	3.393	326.6	556.9	0.923	5.863	1.48	0.293	55.1	5.6	1.8	0.243
4-4190	4-4490	0.611	158.1	13.2	1.43	1.608	96.4	1.553	-1.773	349.5	470.3	0.980	---	-1.18	0.966	162.4	25.5	0.9	0.921
4-4190	4-4510	0.564	156.0	14.3	1.47	1.564	95.3	1.419	-2.344	351.0	473.4	0.983	---	-1.20	0.891	161.4	25.9	0.9	0.848
4-4190	4-4530	0.524	153.8	15.5	1.50	1.528	94.3	1.309	-3.183	352.5	476.4	0.985	---	-1.22	0.826	160.4	26.2	0.9	0.783
4-4190	4-4550	0.491	151.6	16.7	1.54	1.497	93.3	1.219	-4.513	353.9	479.4	0.987	---	-1.24	0.768	159.2	26.4	0.9	0.726
4-4190	4-4570	0.464	149.3	17.8	1.58	1.471	92.5	1.143	-6.922	355.4	482.3	0.988	---	-1.27	0.716	158.1	26.7	0.9	0.674
4-4190	4-4590	0.441	147.1	19.0	1.63	1.449	91.7	1.079	12.530	356.8	485.2	0.989	---	-1.29	0.669	156.8	26.8	0.8	0.628
4-4190	4-4610	0.422	144.8	20.0	1.67	1.430	91.0	1.025	39.623	358.1	488.1	0.990	---	-1.32	0.627	155.5	27.0	0.8	0.587

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4190	4-4630	0.406	142.7	21.1	1.72	1.414	90.3	0.979	47.532	359.4	490.8	0.990	---	-1.35	0.588	154.1	27.1	0.8	0.549
4-4190	4-4650	0.392	140.6	22.0	1.77	1.400	89.7	0.940	16.509	0.6	133.5	---	---	-1.39	0.554	152.7	27.1	0.7	0.514
4-4190	4-4670	0.381	138.7	22.9	1.82	1.388	89.2	0.907	10.588	1.7	136.2	---	---	-1.42	0.522	151.1	27.1	0.7	0.483
4-4190	4-4690	0.371	136.9	23.8	1.87	1.377	88.8	0.878	8.090	2.7	138.7	---	---	-1.46	0.493	149.5	27.0	0.6	0.454
4-4190	4-4710	0.363	135.3	24.6	1.93	1.368	88.3	0.853	6.721	3.6	141.1	---	---	-1.50	0.467	147.9	26.9	0.5	0.428
4-4190	4-4730	0.357	133.8	25.3	1.99	1.360	88.0	0.831	5.862	4.4	143.5	---	---	-1.55	0.443	146.1	26.7	0.4	0.404
4-4190	4-4750	0.351	132.4	26.0	2.05	1.353	87.7	0.813	5.276	5.2	145.7	---	---	-1.60	0.421	144.3	26.4	0.3	0.382
4-4190	4-4770	0.346	131.3	26.6	2.12	1.347	87.4	0.797	4.853	5.8	147.9	---	---	-1.65	0.401	142.5	26.1	0.2	0.361
4-4190	4-4790	0.342	130.3	27.2	2.20	1.342	87.2	0.782	4.537	6.4	150.0	---	---	-1.71	0.382	140.5	25.7	0.1	0.343
4-4190	4-4810	0.339	129.4	27.8	2.27	1.337	87.0	0.770	4.292	6.9	152.0	---	---	-1.77	0.366	138.5	25.2	-0.0	0.325
4-4190	4-4830	0.336	128.7	28.4	2.36	1.333	86.8	0.759	4.099	7.3	153.9	---	---	-1.84	0.350	136.4	24.6	-0.2	0.310
4-4190	4-4850	0.333	128.2	28.9	2.45	1.329	86.7	0.750	3.943	7.6	155.7	---	---	-1.92	0.336	134.3	24.0	-0.3	0.295
4-4190	4-4870	0.331	127.8	29.5	2.55	1.326	86.6	0.742	3.816	7.9	157.5	---	---	-2.00	0.324	132.0	23.3	-0.5	0.282
4-4190	4-4890	0.329	127.6	30.1	2.66	1.323	86.6	0.734	3.712	8.1	159.2	---	---	-2.10	0.312	129.8	22.5	-0.7	0.270
4-4190	4-4910	0.327	127.5	30.6	2.78	1.321	86.6	0.728	3.625	8.2	160.8	---	---	-2.21	0.302	127.5	21.6	-0.9	0.258
4-4190	4-4930	0.325	127.5	31.2	2.91	1.319	86.6	0.723	3.552	8.2	162.4	---	---	-2.33	0.292	125.1	20.7	-1.2	0.248
4-4190	4-4950	0.324	127.7	31.9	3.06	1.317	86.6	0.718	3.491	8.2	163.8	---	---	-2.46	0.284	122.7	19.7	-1.4	0.239
4-4190	4-4970	0.323	128.0	32.5	3.23	1.315	86.6	0.713	3.439	8.1	165.3	---	---	-2.61	0.276	120.3	18.7	-1.7	0.231
4-4190	4-4990	0.322	128.5	33.3	3.42	1.314	86.7	0.710	3.396	8.0	166.7	---	---	-2.79	0.270	117.9	17.6	-2.1	0.223
4-4190	4-5010	0.321	129.1	34.1	3.64	1.313	86.8	0.706	3.359	7.8	168.0	---	---	-2.99	0.264	115.4	16.4	-2.4	0.217
4-4190	4-5030	0.321	129.9	35.1	3.89	1.312	86.9	0.704	3.327	7.6	169.3	---	---	-3.23	0.259	113.0	15.3	-2.8	0.211
4-4190	4-5050	0.321	130.8	36.1	4.19	1.311	87.0	0.701	3.301	7.3	170.5	---	---	-3.51	0.254	110.6	14.1	-3.3	0.206
4-4190	4-5070	0.321	131.9	37.4	4.54	1.310	87.1	0.699	3.279	7.0	171.7	---	---	-3.85	0.251	108.1	12.9	-3.9	0.201
4-4190	4-5090	0.323	133.2	38.9	4.97	1.309	87.3	0.697	3.260	6.6	172.8	---	---	-4.27	0.247	105.8	11.7	-4.5	0.197
4-4190	4-5110	0.325	134.8	40.8	5.50	1.309	87.5	0.696	3.245	6.2	173.9	---	---	-4.79	0.245	103.4	10.5	-5.3	0.194
4-4190	4-5130	0.329	136.8	43.1	6.19	1.308	87.7	0.694	3.232	5.7	175.0	---	---	-5.46	0.243	101.1	9.3	-6.3	0.192
4-4190	4-5150	0.335	139.3	46.2	7.09	1.308	87.9	0.693	3.222	5.2	176.0	---	---	-6.35	0.241	98.8	8.2	-7.5	0.191
4-4190	4-5170	0.345	142.7	50.2	8.36	1.307	88.1	0.692	3.214	4.7	177.0	---	---	-7.60	0.240	96.6	7.1	-9.2	0.190
4-4190	4-5190	0.364	147.8	55.6	10.24	1.307	88.3	0.692	3.208	4.2	178.0	---	---	-9.47	0.239	94.5	6.1	-11.5	0.191
4-4190	4-5210	0.402	157.3	63.3	13.33	1.307	88.5	0.691	3.203	3.6	178.9	---	---	-12.55	0.239	92.4	5.3	-15.1	0.196
4-4190	4-5230	0.488	183.7	73.2	19.32	1.307	88.8	0.691	3.201	3.0	179.9	---	---	-18.52	0.239	90.3	4.6	-21.1	0.209
4-4190	4-5250	0.753	264.9	71.6	34.99	1.307	89.0	0.691	3.199	2.5	180.7	---	5.409	-34.18	0.239	88.4	4.3	-30.8	0.261
4-4190	4-5270	1.605	357.6	-63.4	-86.70	1.307	89.8	0.691	3.199	0.5	181.5	---	5.408	87.52	0.240	86.6	0.7	30.3	0.476
4-4190	4-5290	0.696	100.5	-59.5	-31.80	1.307	89.8	0.691	3.200	0.5	182.4	---	5.410	32.64	0.241	84.7	360.0	30.4	0.255
4-4190	4-5310	0.453	119.4	-39.3	-17.13	1.307	90.0	0.691	3.202	359.9	543.2	0.990	5.414	17.98	0.242	82.9	359.7	20.8	0.209
4-4190	4-5330	0.375	126.7	-26.1	-11.40	1.307	90.3	0.691	3.205	359.2	544.0	0.990	5.420	12.26	0.243	81.2	359.4	15.0	0.196
4-4190	4-5350	0.341	131.2	-17.4	-8.40	1.307	90.6	0.692	3.208	358.5	544.8	0.990	5.427	9.28	0.244	79.5	359.1	11.6	0.192
4-4190	4-5370	0.325	134.6	-11.5	-6.57	1.307	91.0	0.692	3.213	357.7	545.5	0.990	5.436	7.46	0.246	78.0	358.7	9.3	0.191
4-4190	4-5390	0.316	137.4	-7.3	-5.33	1.308	91.3	0.693	3.218	356.8	546.2	0.989	5.447	6.24	0.248	76.5	358.5	7.8	0.191
4-4190	4-5410	0.311	139.9	-4.4	-4.44	1.308	91.6	0.693	3.224	356.0	546.9	0.989	5.459	5.36	0.249	75.0	358.3	6.6	0.192
4-4190	4-5430	0.308	142.2	-2.2	-3.77	1.308	92.0	0.694	3.230	355.1	547.6	0.988	5.472	4.70	0.251	73.6	358.2	5.8	0.193
4-4190	4-5450	0.307	144.4	-0.6	-3.24	1.308	92.4	0.695	3.237	354.2	548.3	0.988	5.486	4.18	0.253	72.3	358.1	5.1	0.195
4-4190	4-5470	0.306	146.5	0.6	-2.81	1.309	92.7	0.696	3.244	353.3	548.9	0.987	5.502	3.77	0.256	71.0	358.1	4.5	0.197
4-4190	4-5490	0.306	148.6	1.5	-2.46	1.309	93.1	0.697	3.252	352.4	549.5	0.986	5.518	3.44	0.258	69.7	358.2	4.1	0.199
4-4190	4-5510	0.307	150.6	2.1	-2.17	1.309	93.5	0.698	3.260	351.4	550.2	0.985	5.535	3.16	0.260	68.6	358.3	3.7	0.201
4-4190	4-5530	0.308	152.5	2.6	-1.92	1.309	93.9	0.699	3.269	350.4	550.7	0.984	5.554	2.92	0.262	67.4	358.6	3.4	0.203
4-4190	4-5550	0.310	154.5	2.9	-1.70	1.310	94.3	0.700	3.278	349.4	551.3	0.983	5.573	2.72	0.265	66.3	358.8	3.2	0.206
4-4190	4-5570	0.312	156.4	3.0	-1.51	1.310	94.8	0.701	3.287	348.4	551.9	0.982	5.593	2.55	0.267	65.2	359.2	2.9	0.208
4-4190	4-5590	0.314	158.3	3.1	-1.35	1.310	95.2	0.703	3.297	347.4	552.5	0.980	5.613	2.40	0.270	64.2	359.6	2.7	0.211
4-4190	4-5610	0.317	160.1	3.1	-1.20	1.311	95.6	0.704	3.307	346.3	553.0	0.978	5.635	2.26	0.272	63.2	0.0	2.6	0.213
4-4190	4-5630	0.320	162.0	2.9	-1.07	1.311	96.1	0.706	3.317	345.3	553.5	0.976	5.657	2.14	0.275	62.3	0.5	2.4	0.216
4-4190	4-5650	0.323	163.8	2.8	-0.95	1.312	96.5	0.707	3.327	344.2	554.0	0.974	5.680	2.04	0.277	61.4	1.1	2.3	0.219
4-4190	4-5670	0.327	165.6	2.5	-0.84	1.312	97.0	0.709	3.337	343.1	554.5	0.972	5.703	1.94	0.280	60.5	1.7	2.2	0.222
4-4190	4-5690	0.331	167.4	2.3	-0.74	1.312	97.5	0.710	3.348	342.0	555.0	0.970	5.727	1.86	0.282	59.6	2.3	2.1	0.224
4-4190	4-5710	0.335	169.1	2.0	-0.65	1.313	98.0	0.712	3.359	340.8	555.5	0.967	5.751	1.78	0.285	58.8	3.0	2.1	0.227
4-4190	4-5730	0.340	170.9	1.6	-0.56	1.313	98.5	0.714	3.370	339.7	555.9	0.964	5.776	1.71	0.288	58.0	3.8	2.0	0.230
4-4190	4-5750	0.345	172.6	1.2	-0.48	1.313	99.0	0.716	3.382	338.5	556.4	0.961	5.802	1.65	0.290	57.2	4.6	2.0	0.233
4-4190	4-5770	0.350	174.3	0.8	-0.41	1.314	99.5	0.718	3.393	337.3	556.8	0.958	5.828	1.59	0.293	56.4	5.4	1.9	0.236
4-4190	4-5790	0.356	175.9	0.4	-0.34	1.314	100.0	0.720	3.405	336.1	557.2	0.954	5.855	1.54	0.295	55.7	6.2	1.9	0.240
4-4200	4-4480	0.634	154.9	14.0	1.30	1.646	91.4	1.675	-1.462	357.8	467.9	0.987	---	-0.91	1.026	163.0	25.7	1.1	0.980
4-4200	4-4500	0.584	152.4	15.2	1.32	1.596	90.3	1.515	-1.918	359.5	471.0	0.988	---	-0.92	0.943	162.1	26.0	1.0	0.899
4-4200	4-4520	0.543	149.8	16.4	1.35	1.554	89.4	1.385	-2.563	1.1	114.1	---	---	-0.93	0.871	161.1	26.3	1.0	0.827
4-4200	4-4540	0.510	147.1	17.6	1.38	1.519	88.5	1.279	-3.535	2.7	117.3	---	---	-0.94	0.807	160.0	26.5	1.0	0.764
4-4200	4-4560	0.483	144.4	18.8	1.41	1.490	87.7	1.192	-5.144	4.3	120.4	---	---	-0.95	0.750	158.9	26.7	1.0	0.708
4-4200	4-4580	0.460	141.8	19.8	1.43	1.465	86.9	1.119	-8.283	5.8	123.4	---	---	-0.96	0.699	157.7	26.9	1.0	0.658
4-4200	4-4600	0.442	139.2	20.8	1.46	1.444	86.2	1.058	16.972	7.3	126.4	---	---	-0.98	0.653	156.4	27.0	1.0	0.613
4-4200	4-4620	0.427	136.8	21.7	1.49	1.425	85.6	1.007	46.272	8.7	129.3	---	---	-0.99	0.612	155.1	27.1	1.0	0.573
4-4200	4-4640	0.415	134.5	22.6	1.52	1.410	85.1	0.963	26.763	10.0	132.2	---	---	-1.01	0.574	153.7	27.1	0.9	0.536
4-4200	4-4660	0.405	132.4	23.3	1.56	1.396	84.6	0.926	13.314	11.2	134.9	---	---	-1.03	0.540	152.2	27.1	0.9	0.502
4-4200	4-4680	0.397	130.4	24.0	1.59	1.385	84.2	0.895	9.307	12.4	137.5	---	---	-1.05	0.509	150.7	27.0	0.8	0.472
4-4200	4-4700	0.390	128.6	24.6	1.62	1.375	83.8	0.868	7.393	13.4	140.1	---	---	-1.07	0.481	149.0	26.9	0.8	0.444
4-4200	4-4720	0.385	127.0	25.1	1.66	1.366	83.4	0.845	6.279	14.3	142.5	---	---	-1.09	0.456	147.3	26.7	0.7	0.418
4-4200	4-4740	0.380	125.6	25.6	1.70	1.358	83.2	0.825	5.554	15.2	144.9	---	---	-1.11	0.432	145.6	26.4	0.7	0.395
4-4200	4-4760	0.376	124.4	26.1	1.74	1.352	82.9	0.808	5.049	15.9	147.1	---	---	-1.14	0.411	143.7	26.1	0.6	0.373
4-4200	4-4780	0.372	123.3	26.5	1.78	1.346	82.7	0.793	4.678	16.5	149.3	---	---	-1.16	0.391	141.8	25.7	0.5	0.354
4-4200	4-4800	0.369	122.4	26.8	1.82	1.341	82.5	0.780	4.397	17.1	151.3	---	---	-1.19	0.373	139.8	25.2	0.4	0.336
4-4200	4-4820	0.366	121.6	27.2	1.86	1.336	82.4	0.768	4.178	17.5	153.3	---	---	-1.22	0.357	137.8	24.6	0.4	0.319
4-4200	4-4840	0.364	121.0	27.5	1.91	1.332	82.3	0.758	4.004	17.9	155.1	---	---	-1.26	0.342	135.6	24.0	0.3	0.304
4-4200	4-4860	0.362	120.6	27.8	1.96	1.329	82.2	0.750	3.863	18.2	156.9	---	---	-1.30	0.328	133.4	23.3	0.1	0.290
4-4200	4-4880	0.359	120.2	28.1	2.02	1.326	82.2	0.742	3.748	18.4	158.7	---	---	-1.34	0.316	131.2	22.5	0.0	0.277

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4210	4-5170	0.370	121.4	28.8	2.39	1.310	79.6	0.703	3.192	25.2	177.3	---	---	-1.43	0.236	96.3	6.0	-1.4	0.189
4-4210	4-5190	0.368	122.3	29.0	2.47	1.310	79.9	0.702	3.187	24.5	178.2	---	---	-1.51	0.235	94.1	5.0	-1.6	0.188
4-4210	4-5210	0.365	123.3	29.3	2.57	1.309	80.2	0.701	3.184	23.9	179.1	---	---	-1.59	0.235	92.0	4.1	-1.8	0.187
4-4210	4-5230	0.362	124.4	29.5	2.68	1.309	80.4	0.701	3.182	23.3	180.0	---	5.412	-1.69	0.235	90.0	3.2	-2.0	0.186
4-4210	4-5250	0.359	125.5	29.9	2.80	1.309	80.7	0.700	3.182	22.6	180.9	---	5.409	-1.81	0.236	88.0	2.4	-2.2	0.186
4-4210	4-5270	0.356	126.7	30.2	2.94	1.309	81.0	0.699	3.183	21.8	181.7	---	5.409	-1.94	0.237	86.1	1.7	-2.4	0.186
4-4210	4-5290	0.354	128.0	30.7	3.10	1.309	81.3	0.699	3.185	21.1	182.5	---	5.411	-2.09	0.238	84.3	1.0	-2.6	0.186
4-4210	4-5310	0.351	129.4	31.2	3.29	1.310	81.7	0.699	3.188	20.3	183.3	---	5.415	-2.27	0.239	82.5	0.5	-2.9	0.187
4-4210	4-5330	0.349	130.9	31.8	3.52	1.310	82.0	0.698	3.192	19.6	184.0	---	5.421	-2.49	0.240	80.8	360.0	-3.2	0.188
4-4210	4-5350	0.347	132.6	32.6	3.80	1.310	82.3	0.698	3.196	18.7	184.7	---	5.428	-2.76	0.242	79.2	359.6	-3.5	0.189
4-4210	4-5370	0.346	134.3	33.7	4.15	1.310	82.6	0.698	3.202	17.9	185.5	---	5.437	-3.10	0.244	77.7	359.3	-3.9	0.190
4-4210	4-5390	0.345	136.3	35.0	4.59	1.310	83.0	0.698	3.208	17.1	186.2	---	5.448	-3.53	0.246	76.2	359.1	-4.5	0.191
4-4210	4-5410	0.346	138.6	36.9	5.18	1.311	83.3	0.698	3.214	16.2	186.9	---	5.459	-4.12	0.248	74.8	358.9	-5.2	0.193
4-4210	4-5430	0.348	141.2	39.5	6.01	1.311	83.7	0.698	3.222	15.3	187.5	---	5.472	-4.93	0.250	73.5	358.9	-6.1	0.195
4-4210	4-5450	0.355	144.7	43.4	7.25	1.311	84.1	0.699	3.229	14.4	188.2	---	5.486	-6.16	0.252	72.2	359.0	-7.5	0.198
4-4210	4-5470	0.371	149.7	49.5	9.30	1.311	84.5	0.699	3.238	13.5	188.8	---	5.500	-8.21	0.254	70.9	359.2	-9.8	0.202
4-4210	4-5490	0.417	159.7	60.1	13.40	1.312	84.8	0.699	3.246	12.6	189.4	---	5.516	-12.30	0.257	69.7	359.9	-14.1	0.210
4-4210	4-5510	0.594	209.3	77.1	25.21	1.312	85.2	0.700	3.255	11.7	190.0	---	5.533	-24.10	0.259	68.6	2.2	-24.0	0.241
4-4210	4-5530	1.540	22.4	-55.3	-81.81	1.312	85.9	0.700	3.265	9.9	190.6	---	5.549	82.93	0.262	67.6	9.5	31.2	0.471
4-4210	4-5550	0.519	115.7	-43.9	-20.76	1.313	86.1	0.701	3.274	9.4	191.2	---	5.568	21.89	0.264	66.5	359.9	22.3	0.239
4-4210	4-5570	0.375	130.9	-23.2	-10.49	1.313	86.5	0.701	3.284	8.5	191.8	---	5.587	11.63	0.267	65.5	359.5	13.0	0.217
4-4210	4-5590	0.336	137.3	-12.2	-6.73	1.313	86.9	0.702	3.294	7.5	192.3	---	5.606	7.88	0.269	64.5	359.8	9.0	0.214
4-4210	4-5610	0.321	141.5	-5.9	-4.79	1.314	87.4	0.702	3.305	6.4	192.9	---	5.627	5.95	0.272	63.6	0.2	6.8	0.214
4-4210	4-5630	0.314	144.8	-2.2	-3.61	1.314	87.8	0.703	3.316	5.4	193.4	---	5.647	4.78	0.275	62.7	0.8	5.5	0.216
4-4210	4-5650	0.309	147.7	0.2	-2.81	1.315	88.2	0.704	3.327	4.3	193.9	---	5.669	3.99	0.277	61.9	1.3	4.6	0.218
4-4210	4-5670	0.306	150.3	1.8	-2.24	1.315	88.7	0.705	3.338	3.2	194.4	---	5.690	3.43	0.280	61.0	2.0	3.9	0.220
4-4210	4-5690	0.305	152.8	2.8	-1.81	1.315	89.1	0.706	3.349	2.1	194.9	---	5.713	3.01	0.283	60.2	2.6	3.5	0.222
4-4210	4-5710	0.304	155.2	3.4	-1.47	1.316	89.6	0.707	3.361	1.0	195.4	---	5.736	2.68	0.285	59.5	3.3	3.1	0.224
4-4210	4-5730	0.303	157.6	3.8	-1.20	1.316	90.1	0.708	3.373	359.8	555.9	0.986	5.759	2.41	0.288	58.7	4.0	2.8	0.227
4-4210	4-5750	0.303	159.9	3.9	-0.97	1.317	90.5	0.709	3.384	358.7	556.4	0.986	5.783	2.20	0.291	58.0	4.8	2.6	0.229
4-4210	4-5770	0.303	162.1	3.9	-0.79	1.317	91.0	0.710	3.396	357.5	556.8	0.986	5.807	2.02	0.293	57.3	5.6	2.5	0.232
4-4210	4-5790	0.304	164.4	3.7	-0.62	1.317	91.5	0.711	3.408	356.3	557.3	0.985	5.832	1.87	0.296	56.7	6.5	2.3	0.235
4-4210	4-5810	0.305	166.6	3.5	-0.49	1.318	92.0	0.712	3.421	355.1	557.7	0.984	5.857	1.74	0.299	56.0	7.4	2.2	0.237
4-4220	4-4520	0.623	138.4	19.3	1.24	1.567	77.3	1.401	-2.352	21.8	114.6	---	---	-0.46	0.891	161.9	26.2	1.2	0.851
4-4220	4-4540	0.595	135.5	20.2	1.26	1.529	76.6	1.288	-3.253	23.7	118.0	---	---	-0.46	0.822	160.9	26.3	1.2	0.783
4-4220	4-4560	0.572	132.7	21.0	1.27	1.498	76.0	1.197	-4.735	25.6	121.4	---	---	-0.46	0.761	159.8	26.4	1.2	0.724
4-4220	4-4580	0.555	130.2	21.7	1.28	1.471	75.5	1.122	-7.591	27.4	124.7	---	---	-0.46	0.707	158.6	26.5	1.2	0.671
4-4220	4-4600	0.541	127.9	22.4	1.29	1.448	75.0	1.06015	.251	29.1	127.9	---	---	-0.47	0.658	157.4	26.5	1.2	0.624
4-4220	4-4620	0.530	125.7	22.9	1.31	1.429	74.6	1.00997	.861	30.6	131.0	---	---	-0.47	0.614	156.1	26.5	1.2	0.582
4-4220	4-4640	0.521	123.8	23.3	1.32	1.412	74.2	0.96727	.435	32.1	134.0	---	---	-0.47	0.575	154.7	26.4	1.2	0.543
4-4220	4-4660	0.513	122.1	23.7	1.33	1.398	73.9	0.93113	.146	33.4	136.8	---	---	-0.47	0.539	153.3	26.3	1.1	0.509
4-4220	4-4680	0.507	120.6	24.1	1.34	1.386	73.6	0.901	9.106	34.6	139.5	---	---	-0.48	0.507	151.7	26.1	1.1	0.477
4-4220	4-4700	0.502	119.3	24.4	1.36	1.376	73.4	0.875	7.210	35.7	142.1	---	---	-0.48	0.478	150.1	25.8	1.1	0.449
4-4220	4-4720	0.498	118.1	24.6	1.37	1.367	73.2	0.854	6.117	36.7	144.6	---	---	-0.48	0.451	148.4	25.5	1.1	0.423
4-4220	4-4740	0.494	117.2	24.8	1.38	1.359	73.0	0.835	5.410	37.5	146.9	---	---	-0.49	0.426	146.6	25.1	1.0	0.399
4-4220	4-4760	0.491	116.3	25.0	1.40	1.352	72.9	0.819	4.919	38.2	149.2	---	---	-0.49	0.404	144.8	24.7	1.0	0.377
4-4220	4-4780	0.488	115.6	25.1	1.41	1.346	72.8	0.805	4.561	38.8	151.3	---	---	-0.50	0.384	142.8	24.2	0.9	0.357
4-4220	4-4800	0.485	115.1	25.3	1.43	1.341	72.7	0.793	4.290	39.3	153.3	---	---	-0.50	0.365	140.8	23.6	0.9	0.339
4-4220	4-4820	0.482	114.6	25.4	1.44	1.337	72.7	0.783	4.080	39.7	155.2	---	---	-0.51	0.349	138.7	23.0	0.8	0.322
4-4220	4-4840	0.479	114.3	25.5	1.46	1.333	72.7	0.774	3.913	40.0	157.0	---	---	-0.52	0.333	136.5	22.3	0.8	0.307
4-4220	4-4860	0.476	114.0	25.6	1.47	1.329	72.7	0.766	3.779	40.2	158.7	---	---	-0.52	0.319	134.2	21.5	0.7	0.293
4-4220	4-4880	0.474	113.9	25.7	1.49	1.326	72.7	0.759	3.669	40.3	160.3	---	---	-0.53	0.307	131.9	20.6	0.6	0.280
4-4220	4-4900	0.471	113.8	25.7	1.50	1.324	72.8	0.753	3.579	40.4	161.9	---	---	-0.54	0.296	129.5	19.7	0.6	0.269
4-4220	4-4920	0.468	113.8	25.8	1.52	1.321	72.9	0.748	3.505	40.4	163.4	---	---	-0.55	0.286	127.0	18.8	0.5	0.258
4-4220	4-4940	0.465	113.9	25.9	1.54	1.319	73.0	0.743	3.442	40.3	164.8	---	---	-0.56	0.276	124.5	17.8	0.4	0.249
4-4220	4-4960	0.462	114.0	25.9	1.56	1.318	73.1	0.739	3.390	40.1	166.2	---	---	-0.57	0.268	122.0	16.7	0.3	0.240
4-4220	4-4980	0.458	114.2	26.0	1.58	1.316	73.2	0.735	3.347	39.9	167.5	---	---	-0.58	0.261	119.4	15.6	0.3	0.232
4-4220	4-5000	0.455	114.5	26.0	1.60	1.315	73.4	0.731	3.310	39.6	168.7	---	---	-0.59	0.255	116.8	14.5	0.2	0.226
4-4220	4-5020	0.452	114.8	26.1	1.62	1.314	73.5	0.728	3.279	39.3	169.9	---	---	-0.61	0.250	114.2	13.3	0.1	0.219
4-4220	4-5040	0.448	115.2	26.1	1.64	1.313	73.7	0.726	3.254	39.0	171.1	---	---	-0.62	0.245	111.6	12.2	-0.0	0.214
4-4220	4-5060	0.445	115.7	26.1	1.66	1.312	73.9	0.723	3.232	38.6	172.2	---	---	-0.64	0.242	109.1	11.0	-0.1	0.209
4-4220	4-5080	0.441	116.2	26.2	1.68	1.312	74.1	0.721	3.215	38.1	173.3	---	---	-0.65	0.238	106.6	9.8	-0.2	0.205
4-4220	4-5100	0.438	116.7	26.2	1.71	1.311	74.4	0.719	3.201	37.6	174.3	---	---	-0.67	0.236	104.1	8.7	-0.3	0.201
4-4220	4-5120	0.434	117.3	26.2	1.74	1.311	74.6	0.717	3.189	37.1	175.3	---	---	-0.69	0.234	101.6	7.6	-0.4	0.198
4-4220	4-5140	0.430	117.9	26.3	1.76	1.310	74.9	0.716	3.180	36.5	176.3	---	---	-0.71	0.232	99.2	6.5	-0.5	0.196
4-4220	4-5160	0.426	118.6	26.3	1.79	1.310	75.1	0.714	3.174	35.9	177.2	---	---	-0.73	0.231	96.9	5.5	-0.6	0.194
4-4220	4-5180	0.422	119.3	26.3	1.83	1.310	75.4	0.713	3.169	35.3	178.1	---	---	-0.76	0.231	94.7	4.5	-0.7	0.192
4-4220	4-5200	0.418	120.1	26.3	1.86	1.310	75.7	0.712	3.166	34.7	179.0	---	---	-0.79	0.231	92.5	3.6	-0.8	0.191
4-4220	4-5220	0.414	120.9	26.4	1.90	1.310	76.0	0.711	3.164	34.0	179.8	---	---	-0.82	0.231	90.4	2.8	-0.8	0.190
4-4220	4-5240	0.410	121.8	26.4	1.94	1.310	76.3	0.710	3.164	33.3	180.7	---	5.411	-0.85	0.232	88.4	2.0	-0.9	0.190
4-4220	4-5260	0.406	122.7	26.4	1.98	1.310	76.6	0.709	3.165	32.6	181.5	---	5.410	-0.89	0.232	86.4	1.3	-1.0	0.190
4-4220	4-5280	0.402	123.6	26.5	2.03	1.310	76.9	0.709	3.168	31.8	182.3	---	5.412	-0.93	0.234	84.5	0.6	-1.1	0.190
4-4220	4-5300	0.398	124.6	26.5	2.09	1.310	77.2	0.708	3.171	31.0	183.0	---	5.415	-0.98	0.235	82.8	0.1	-1.2	0.190
4-4220	4-5320	0.394	125.7	26.6	2.15	1.310	77.5	0.707	3.175	30.2	183.8	---	5.421	-1.03	0.236	81.0	359.6	-1.3	0.190
4-4220	4-5340	0.390	126.8	26.7	2.21	1.310	77.9	0.707	3.180	29.4	184.5	---	5.428	-1.09	0.238	79.4	359.2	-1.4	0.191
4-4220	4-5360	0.385	128.0	26.7	2.29	1.311	78.2	0.706	3.186	28.6	185.2	---	5.436	-1.16	0.240	77.8	358.9	-1.5	0.192
4-4220	4-5380	0.381	129.2	26.9	2.37	1.311	78.6	0.706	3.192	27.7	185.9	---	5.446	-1.24	0.242	76.3	358.6	-1.6	0.193
4-4220	4-5400	0.377	130.4	27.0	2.47	1.311	78.9	0.706	3.199	26.8	186.6	---	5.457	-1.33	0.244	74.9	358.5	-1.7	0.195
4-4220	4-5420	0.373	131.8	27.2	2.58	1.311	79.3	0.706	3.207	25.9	187.2	---	5.469	-1.43	0.246	73.5	358.4	-1.8	0.196
4-4220	4-5440	0.370	133.2	27.4	2.71	1.312	79.7	0.706	3.215	25.0	187.9	---	5.483	-1.56	0.249	72.2	358.3	-2.0	0.197

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4230	4-5790	0.527	122.5	-42.0	-20.33	1.319	83.1	0.716	3.400	16.4	197.1	---	5.833	21.62	0.295	56.3	8.0	20.3	0.266
4-4230	4-5810	0.344	147.7	-6.6	-4.77	1.319	83.6	0.716	3.413	15.3	197.5	---	5.857	6.06	0.297	55.8	7.5	6.6	0.241
4-4230	4-5830	0.330	153.1	1.7	-2.21	1.320	84.1	0.717	3.426	14.1	198.0	---	5.881	3.51	0.300	55.2	8.4	4.0	0.242
4-4240	4-4600	0.724	124.1	22.1	1.30	1.448	62.3	1.04915	5.739	53.9	132.4	---	---	-0.01	0.656	159.3	24.8	1.3	0.637
4-4240	4-4620	0.712	122.7	22.4	1.30	1.428	62.2	1.00493	5.955	55.6	135.6	---	---	-0.01	0.610	158.1	24.6	1.3	0.592
4-4240	4-4640	0.702	121.5	22.7	1.30	1.411	62.0	0.96722	5.931	57.0	138.5	---	---	-0.01	0.569	156.7	24.4	1.3	0.553
4-4240	4-4660	0.693	120.4	22.9	1.30	1.396	61.9	0.93611	5.800	58.3	141.4	---	---	-0.01	0.531	155.3	24.2	1.3	0.517
4-4240	4-4680	0.685	119.5	23.0	1.30	1.384	61.8	0.910	5.864	59.4	144.0	---	---	-0.01	0.497	153.7	23.8	1.2	0.485
4-4240	4-4700	0.679	118.8	23.2	1.30	1.373	61.8	0.888	6.705	60.4	146.5	---	---	-0.01	0.467	152.1	23.4	1.2	0.456
4-4240	4-4720	0.673	118.1	23.3	1.31	1.364	61.7	0.870	5.734	61.2	148.8	---	---	-0.01	0.439	150.4	23.0	1.2	0.429
4-4240	4-4740	0.667	117.6	23.4	1.31	1.356	61.7	0.854	5.102	61.9	151.0	---	---	-0.01	0.413	148.6	22.5	1.2	0.405
4-4240	4-4760	0.662	117.2	23.5	1.31	1.349	61.8	0.841	4.661	62.5	153.1	---	---	-0.01	0.390	146.7	21.9	1.1	0.383
4-4240	4-4780	0.657	116.9	23.5	1.31	1.343	61.8	0.829	4.338	62.9	155.0	---	---	-0.01	0.369	144.7	21.3	1.1	0.363
4-4240	4-4800	0.652	116.6	23.6	1.31	1.338	61.9	0.819	4.094	63.2	156.8	---	---	-0.01	0.350	142.6	20.6	1.1	0.345
4-4240	4-4820	0.648	116.5	23.6	1.31	1.333	62.0	0.810	3.904	63.4	158.6	---	---	-0.01	0.332	140.3	19.8	1.0	0.329
4-4240	4-4840	0.643	116.4	23.7	1.31	1.330	62.1	0.803	3.754	63.5	160.2	---	---	-0.01	0.317	138.0	19.0	1.0	0.314
4-4240	4-4860	0.639	116.3	23.7	1.31	1.326	62.2	0.796	3.634	63.6	161.7	---	---	-0.01	0.303	135.6	18.1	0.9	0.300
4-4240	4-4880	0.634	116.4	23.7	1.31	1.323	62.4	0.790	3.536	63.5	163.2	---	---	-0.01	0.290	133.1	17.2	0.9	0.287
4-4240	4-4900	0.629	116.4	23.7	1.31	1.321	62.6	0.785	3.455	63.4	164.6	---	---	-0.01	0.278	130.6	16.2	0.9	0.276
4-4240	4-4920	0.625	116.6	23.7	1.31	1.319	62.7	0.780	3.389	63.2	165.9	---	---	-0.01	0.268	127.9	15.2	0.8	0.266
4-4240	4-4940	0.620	116.7	23.7	1.31	1.317	62.9	0.775	3.334	63.0	167.2	---	---	-0.01	0.259	125.2	14.1	0.7	0.257
4-4240	4-4960	0.616	116.9	23.7	1.31	1.315	63.2	0.771	3.288	62.7	168.4	---	---	-0.01	0.251	122.4	13.0	0.7	0.249
4-4240	4-4980	0.611	117.2	23.7	1.31	1.314	63.4	0.768	3.251	62.3	169.5	---	---	-0.01	0.244	119.6	11.9	0.6	0.241
4-4240	4-5000	0.606	117.5	23.6	1.31	1.313	63.6	0.765	3.219	61.9	170.6	---	---	-0.01	0.238	116.8	10.8	0.6	0.235
4-4240	4-5020	0.601	117.8	23.6	1.31	1.312	63.9	0.762	3.193	61.5	171.7	---	---	-0.01	0.233	114.0	9.7	0.5	0.229
4-4240	4-5040	0.596	118.1	23.6	1.31	1.311	64.1	0.759	3.172	61.0	172.7	---	---	-0.01	0.229	111.2	8.6	0.5	0.224
4-4240	4-5060	0.591	118.5	23.5	1.31	1.310	64.4	0.756	3.155	60.4	173.7	---	---	-0.01	0.225	108.4	7.5	0.4	0.220
4-4240	4-5080	0.586	118.9	23.5	1.31	1.310	64.7	0.754	3.141	59.9	174.7	---	---	-0.01	0.222	105.7	6.5	0.3	0.216
4-4240	4-5100	0.581	119.4	23.4	1.31	1.309	65.0	0.752	3.130	59.3	175.6	---	---	-0.01	0.220	103.0	5.5	0.3	0.213
4-4240	4-5120	0.575	119.8	23.4	1.31	1.309	65.3	0.750	3.121	58.6	176.5	---	---	-0.01	0.219	100.4	4.5	0.2	0.210
4-4240	4-5140	0.570	120.3	23.3	1.31	1.309	65.6	0.748	3.115	58.0	177.3	---	---	-0.01	0.218	97.8	3.5	0.2	0.207
4-4240	4-5160	0.564	120.9	23.2	1.31	1.309	65.9	0.746	3.111	57.3	178.2	---	---	-0.01	0.217	95.3	2.6	0.1	0.206
4-4240	4-5180	0.559	121.4	23.2	1.31	1.309	66.2	0.744	3.109	56.6	179.0	---	---	-0.01	0.217	92.9	1.8	0.1	0.204
4-4240	4-5200	0.553	122.0	23.1	1.31	1.309	66.6	0.743	3.109	55.8	179.8	---	---	-0.01	0.218	90.6	1.1	0.0	0.203
4-4240	4-5220	0.548	122.6	23.0	1.31	1.309	66.9	0.741	3.110	55.1	180.5	---	5.415	-0.01	0.219	88.4	0.4	0.0	0.202
4-4240	4-5240	0.542	123.2	22.9	1.31	1.309	67.2	0.740	3.112	54.3	181.3	---	5.414	-0.01	0.220	86.3	359.7	-0.0	0.202
4-4240	4-5260	0.536	123.8	22.8	1.31	1.309	67.6	0.739	3.115	53.5	182.0	---	5.415	-0.01	0.221	84.3	359.2	-0.1	0.202
4-4240	4-5280	0.530	124.5	22.7	1.31	1.309	68.0	0.737	3.119	52.6	182.7	---	5.419	-0.01	0.223	82.4	358.7	-0.1	0.202
4-4240	4-5300	0.524	125.2	22.6	1.31	1.309	68.3	0.736	3.124	51.8	183.4	---	5.424	-0.01	0.225	80.6	358.3	-0.1	0.202
4-4240	4-5320	0.519	125.9	22.5	1.31	1.309	68.7	0.735	3.130	50.9	184.1	---	5.431	-0.01	0.227	78.8	357.9	-0.1	0.202
4-4240	4-5340	0.513	126.7	22.4	1.31	1.310	69.1	0.734	3.137	50.0	184.8	---	5.439	-0.01	0.229	77.2	357.7	-0.1	0.203
4-4240	4-5360	0.507	127.4	22.3	1.31	1.310	69.5	0.733	3.144	49.1	185.4	---	5.449	-0.01	0.231	75.6	357.5	-0.1	0.204
4-4240	4-5380	0.501	128.2	22.1	1.31	1.310	69.8	0.732	3.152	48.2	186.1	---	5.460	-0.01	0.234	74.2	357.4	-0.2	0.205
4-4240	4-5400	0.494	129.0	22.0	1.31	1.311	70.2	0.731	3.161	47.3	186.7	---	5.472	-0.01	0.236	72.7	357.3	-0.2	0.206
4-4240	4-5420	0.488	129.9	21.8	1.31	1.311	70.6	0.730	3.170	46.3	187.3	---	5.485	-0.01	0.239	71.4	357.3	-0.2	0.207
4-4240	4-5440	0.482	130.7	21.7	1.31	1.311	71.0	0.730	3.180	45.4	187.9	---	5.499	-0.01	0.242	70.1	357.4	-0.2	0.208
4-4240	4-5460	0.476	131.6	21.5	1.31	1.312	71.5	0.729	3.190	44.4	188.5	---	5.514	-0.01	0.245	68.9	357.5	-0.1	0.210
4-4240	4-5480	0.470	132.6	21.3	1.31	1.312	71.9	0.728	3.200	43.4	189.1	---	5.530	-0.01	0.247	67.8	357.7	-0.1	0.211
4-4240	4-5500	0.464	133.5	21.1	1.31	1.312	72.3	0.727	3.211	42.4	189.6	---	5.546	-0.01	0.250	66.7	358.0	-0.1	0.213
4-4240	4-5520	0.458	134.5	20.9	1.32	1.313	72.7	0.727	3.222	41.4	190.2	---	5.563	-0.01	0.253	65.7	358.3	-0.1	0.214
4-4240	4-5540	0.451	135.5	20.7	1.32	1.313	73.1	0.726	3.233	40.4	190.7	---	5.581	-0.01	0.256	64.7	358.6	-0.1	0.216
4-4240	4-5560	0.445	136.5	20.5	1.32	1.314	73.6	0.726	3.244	39.3	191.3	---	5.599	-0.01	0.259	63.8	359.0	-0.1	0.218
4-4240	4-5580	0.439	137.6	20.3	1.32	1.314	74.0	0.725	3.256	38.3	191.8	---	5.618	-0.01	0.262	62.9	359.5	-0.0	0.219
4-4240	4-5600	0.433	138.7	20.0	1.32	1.315	74.5	0.725	3.268	37.2	192.3	---	5.637	-0.01	0.265	62.1	360.0	-0.0	0.221
4-4240	4-5620	0.427	139.9	19.7	1.32	1.315	74.9	0.724	3.281	36.1	192.8	---	5.657	-0.01	0.268	61.3	0.5	0.0	0.223
4-4240	4-5640	0.421	141.0	19.5	1.32	1.315	75.4	0.724	3.293	35.0	193.4	---	5.678	-0.02	0.271	60.5	1.1	0.0	0.225
4-4240	4-5660	0.415	142.3	19.2	1.32	1.316	75.8	0.724	3.306	33.9	193.8	---	5.698	-0.02	0.274	59.8	1.8	0.1	0.227
4-4240	4-5680	0.409	143.5	18.8	1.32	1.316	76.3	0.724	3.318	32.8	194.3	---	5.720	-0.02	0.277	59.1	2.4	0.1	0.229
4-4240	4-5700	0.403	144.8	18.5	1.32	1.317	76.8	0.723	3.331	31.7	194.8	---	5.741	-0.02	0.280	58.4	3.1	0.1	0.231
4-4240	4-5720	0.397	146.1	18.1	1.33	1.317	77.2	0.723	3.344	30.6	195.3	---	5.763	-0.02	0.283	57.7	3.9	0.2	0.233
4-4240	4-5740	0.391	147.5	17.8	1.33	1.318	77.7	0.723	3.358	29.4	195.8	---	5.785	-0.02	0.286	57.1	4.7	0.2	0.235
4-4240	4-5760	0.386	148.9	17.4	1.33	1.318	78.2	0.723	3.371	28.3	196.2	---	5.808	-0.03	0.289	56.5	5.5	0.3	0.237
4-4240	4-5780	0.380	150.4	17.0	1.34	1.319	78.7	0.723	3.384	27.1	196.7	---	5.831	-0.03	0.292	56.0	6.3	0.3	0.239
4-4240	4-5800	0.374	151.9	16.5	1.34	1.319	79.2	0.723	3.398	25.9	197.1	---	5.854	-0.04	0.295	55.4	7.2	0.3	0.241
4-4240	4-5820	0.369	153.4	16.1	1.35	1.319	79.7	0.723	3.411	24.7	197.6	---	5.877	-0.05	0.298	54.9	8.1	0.4	0.243
4-4240	4-5840	0.364	155.0	15.6	1.37	1.320	80.2	0.723	3.425	23.5	198.0	---	5.901	-0.06	0.301	54.4	9.0	0.4	0.245
4-4250	4-4610	0.830	124.2	21.7	1.37	1.437	55.4	1.02033	3.457	68.4	137.5	---	---	0.24	0.630	160.2	23.4	1.3	0.622
4-4250	4-4630	0.817	123.2	21.9	1.37	1.417	55.4	0.98440	3.290	69.9	140.4	---	---	0.24	0.585	158.9	23.1	1.3	0.580
4-4250	4-4650	0.805	122.4	22.1	1.36	1.401	55.4	0.95414	3.164	71.1	143.2	---	---	0.24	0.544	157.5	22.8	1.3	0.561
4-4250	4-4670	0.795	121.6	22.2	1.35	1.387	55.4	0.929	9.166	72.2	145.8	---	---	0.23	0.508	156.1	22.5	1.3	0.507
4-4250	4-4690	0.786	121.0	22.4	1.35	1.376	55.5	0.908	7.061	73.2	148.3	---	---	0.23	0.475	154.5	22.0	1.3	0.476
4-4250	4-4710	0.778	120.6	22.5	1.34	1.365	55.5	0.890	5.910	73.9	150.5	---	---	0.23	0.445	152.8	21.5	1.2	0.448
4-4250	4-4730	0.771	120.2	22.5	1.33	1.357	55.6	0.875	5.189	74.5	152.7	---	---	0.23	0.417	151.0	21.0	1.2	0.422
4-4250	4-4750	0.764	119.9	22.6	1.33	1.349	55.7	0.863	4.699	75.0	154.6	---	---	0.23	0.392	149.2	20.4	1.2	0.399
4-4250	4-4770	0.758	119.7	22.6	1.32	1.343	55.9	0.851	4.348	75.3	156.5	---	---	0.23	0.370	147.2	19.7	1.2	0.378
4-4250	4-4790	0.751	119.5	22.7	1.31	1.338	56.0	0.842	4.086	75.6	158.2	---	---	0.23	0.349	145.1	18.9	1.1	0.359
4-4250	4-4810	0.745	119.4	22.7	1.31	1.333	56.2	0.833	3.885	75.7	159.9	---	---	0.23	0.331	142.8	18.2	1.1	0.342
4-4250	4-4830	0.739	119.4	22.7	1.30	1.329	56.4	0.826	3.727	75.7	161.4	---	---	0.23	0.314	140.5	17.3	1.1	0.326
4-4250	4-4850	0.734	119.4	22.7	1.30	1.325	56.6	0.819	3.602	75.7	162.9	---	---	0.23	0.298	138.1	16.4	1.0	0.312
4-4250	4-4870	0.728	119.5	22.7	1.29	1.322	56.8	0.814	3.500	75.5	164.2	---	---	0.23	0.285	135.5	15.5	1.0	0.299

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4250	4-4890	0.722	119.6	22.7	1.28	1.320	57.0	0.808	3.417	75.3	165.6	---	---	0.23	0.272	132.9	14.5	0.9	0.288
4-4250	4-4910	0.717	119.8	22.6	1.28	1.317	57.3	0.803	3.350	75.1	166.8	---	---	0.23	0.261	130.1	13.5	0.9	0.277
4-4250	4-4930	0.711	120.0	22.6	1.27	1.315	57.5	0.799	3.294	74.7	168.0	---	---	0.23	0.252	127.3	12.4	0.8	0.268
4-4250	4-4950	0.705	120.2	22.6	1.27	1.314	57.8	0.795	3.248	74.4	169.1	---	---	0.23	0.243	124.4	11.4	0.8	0.259
4-4250	4-4970	0.699	120.4	22.5	1.26	1.312	58.0	0.791	3.209	73.9	170.2	---	---	0.23	0.236	121.5	10.3	0.7	0.252
4-4250	4-4990	0.694	120.7	22.5	1.26	1.311	58.3	0.788	3.178	73.5	171.2	---	---	0.23	0.229	118.5	9.2	0.7	0.245
4-4250	4-5010	0.688	121.1	22.5	1.25	1.310	58.6	0.785	3.152	72.9	172.2	---	---	0.23	0.224	115.5	8.1	0.6	0.239
4-4250	4-5030	0.682	121.4	22.4	1.24	1.309	58.9	0.782	3.131	72.4	173.2	---	---	0.23	0.219	112.5	7.1	0.6	0.234
4-4250	4-5050	0.676	121.8	22.3	1.24	1.309	59.2	0.779	3.114	71.8	174.1	---	---	0.23	0.216	109.5	6.0	0.5	0.229
4-4250	4-5070	0.670	122.1	22.3	1.23	1.308	59.6	0.777	3.101	71.2	175.0	---	---	0.23	0.213	106.6	5.0	0.5	0.226
4-4250	4-5090	0.664	122.6	22.2	1.22	1.308	59.9	0.774	3.090	70.5	175.9	---	---	0.23	0.211	103.7	4.0	0.4	0.222
4-4250	4-5110	0.658	123.0	22.1	1.22	1.307	60.2	0.772	3.083	69.8	176.7	---	---	0.24	0.209	100.9	3.1	0.4	0.219
4-4250	4-5130	0.652	123.4	22.1	1.21	1.307	60.6	0.770	3.077	69.1	177.5	---	---	0.24	0.208	98.2	2.2	0.3	0.217
4-4250	4-5150	0.646	123.9	22.0	1.20	1.307	60.9	0.768	3.074	68.4	178.3	---	---	0.24	0.208	95.5	1.4	0.3	0.215
4-4250	4-5170	0.640	124.4	21.9	1.20	1.307	61.3	0.766	3.072	67.6	179.1	---	---	0.24	0.208	93.0	0.6	0.3	0.213
4-4250	4-5190	0.633	124.9	21.8	1.19	1.307	61.6	0.764	3.072	66.8	179.8	---	---	0.24	0.209	90.5	359.9	0.2	0.212
4-4250	4-5210	0.627	125.4	21.7	1.18	1.307	62.0	0.762	3.074	66.0	180.6	---	5.417	0.25	0.210	88.2	359.3	0.2	0.211
4-4250	4-5230	0.621	126.0	21.6	1.18	1.307	62.4	0.761	3.077	65.2	181.3	---	5.416	0.25	0.211	86.0	358.7	0.2	0.211
4-4250	4-5250	0.614	126.6	21.5	1.17	1.307	62.7	0.759	3.080	64.4	182.0	---	5.418	0.25	0.213	83.9	358.2	0.2	0.210
4-4250	4-5270	0.608	127.1	21.4	1.16	1.308	63.1	0.757	3.085	63.5	182.6	---	5.422	0.26	0.214	81.8	357.8	0.1	0.210
4-4250	4-5290	0.601	127.7	21.2	1.15	1.308	63.5	0.756	3.091	62.6	183.3	---	5.427	0.26	0.217	79.9	357.4	0.1	0.210
4-4250	4-5310	0.595	128.4	21.1	1.14	1.308	63.9	0.754	3.098	61.7	183.9	---	5.434	0.27	0.219	78.1	357.1	0.1	0.211
4-4250	4-5330	0.588	129.0	21.0	1.14	1.308	64.3	0.753	3.105	60.8	184.6	---	5.443	0.27	0.221	76.4	356.9	0.1	0.211
4-4250	4-5350	0.581	129.6	20.8	1.13	1.309	64.7	0.752	3.113	59.9	185.2	---	5.453	0.28	0.224	74.8	356.8	0.1	0.212
4-4250	4-5370	0.575	130.3	20.7	1.12	1.309	65.1	0.750	3.122	59.0	185.8	---	5.464	0.28	0.227	73.3	356.7	0.1	0.212
4-4250	4-5390	0.568	131.0	20.5	1.11	1.309	65.5	0.749	3.131	58.0	186.4	---	5.476	0.29	0.229	71.9	356.7	0.1	0.213
4-4250	4-5410	0.561	131.7	20.4	1.10	1.310	66.0	0.748	3.141	57.0	187.0	---	5.489	0.29	0.232	70.5	356.7	0.1	0.214
4-4250	4-5430	0.554	132.4	20.2	1.09	1.310	66.4	0.747	3.151	56.0	187.6	---	5.504	0.30	0.235	69.2	356.8	0.1	0.216
4-4250	4-5450	0.547	133.2	20.0	1.08	1.311	66.8	0.746	3.161	55.1	188.2	---	5.518	0.31	0.238	68.0	357.0	0.2	0.217
4-4250	4-5470	0.541	134.0	19.8	1.06	1.311	67.2	0.745	3.172	54.1	188.7	---	5.534	0.32	0.241	66.9	357.2	0.2	0.218
4-4250	4-5490	0.534	134.7	19.6	1.05	1.311	67.7	0.744	3.183	53.0	189.3	---	5.551	0.33	0.245	65.8	357.4	0.2	0.219
4-4250	4-5510	0.527	135.6	19.4	1.04	1.312	68.1	0.743	3.195	52.0	189.8	---	5.568	0.34	0.248	64.7	357.8	0.2	0.221
4-4250	4-5530	0.520	136.4	19.2	1.02	1.312	68.6	0.742	3.207	51.0	190.3	---	5.585	0.35	0.251	63.8	358.1	0.3	0.222
4-4250	4-5550	0.513	137.2	18.9	1.01	1.313	69.0	0.741	3.219	49.9	190.9	---	5.604	0.36	0.254	62.9	358.6	0.3	0.224
4-4250	4-5570	0.506	138.1	18.7	0.99	1.313	69.5	0.740	3.231	48.8	191.4	---	5.622	0.37	0.257	62.0	359.0	0.3	0.226
4-4250	4-5590	0.499	139.0	18.4	0.97	1.314	69.9	0.739	3.244	47.8	191.9	---	5.642	0.38	0.260	61.2	359.6	0.4	0.227
4-4250	4-5610	0.492	139.9	18.1	0.96	1.314	70.4	0.738	3.257	46.7	192.4	---	5.661	0.40	0.264	60.4	0.1	0.4	0.229
4-4250	4-5630	0.485	140.8	17.8	0.93	1.315	70.8	0.738	3.270	45.6	192.9	---	5.682	0.42	0.267	59.6	0.7	0.5	0.231
4-4250	4-5650	0.478	141.8	17.5	0.91	1.315	71.3	0.737	3.283	44.5	193.4	---	5.702	0.44	0.270	58.9	1.3	0.5	0.232
4-4250	4-5670	0.471	142.8	17.2	0.89	1.315	71.8	0.736	3.296	43.4	193.9	---	5.723	0.46	0.273	58.2	2.0	0.6	0.234
4-4250	4-5690	0.464	143.8	16.8	0.86	1.316	72.2	0.736	3.310	42.2	194.4	---	5.744	0.48	0.276	57.6	2.7	0.6	0.236
4-4250	4-5710	0.457	144.9	16.4	0.83	1.316	72.7	0.735	3.323	41.1	194.8	---	5.766	0.51	0.279	57.0	3.5	0.7	0.238
4-4250	4-5730	0.450	145.9	16.0	0.80	1.317	73.2	0.734	3.337	40.0	195.3	---	5.788	0.54	0.282	56.4	4.3	0.8	0.240
4-4250	4-5750	0.443	147.0	15.6	0.76	1.317	73.7	0.734	3.351	38.8	195.8	---	5.810	0.58	0.285	55.8	5.1	0.8	0.241
4-4250	4-5770	0.437	148.1	15.1	0.71	1.318	74.2	0.733	3.365	37.6	196.2	---	5.833	0.62	0.289	55.3	5.9	0.9	0.243
4-4250	4-5790	0.430	149.3	14.6	0.66	1.318	74.7	0.733	3.379	36.4	196.7	---	5.855	0.67	0.292	54.8	6.8	1.0	0.245
4-4250	4-5810	0.423	150.4	14.0	0.60	1.319	75.2	0.733	3.393	35.3	197.1	---	5.878	0.72	0.295	54.3	7.7	1.1	0.247
4-4250	4-5830	0.416	151.6	13.4	0.53	1.319	75.7	0.732	3.407	34.1	197.5	---	5.902	0.79	0.297	53.8	8.6	1.2	0.249
4-4250	4-5850	0.410	152.8	12.7	0.44	1.320	76.2	0.732	3.421	32.8	198.0	---	5.925	0.88	0.300	53.4	9.6	1.4	0.251
4-4260	4-4620	0.944	125.8	21.1	1.49	1.425	48.3	0.99970	613	83.5	143.1	---	---	0.52	0.604	161.5	21.7	1.3	0.611
4-4260	4-4640	0.929	125.1	21.2	1.47	1.407	48.4	0.97118	657	84.6	145.8	---	---	0.51	0.560	160.1	21.3	1.3	0.570
4-4260	4-4660	0.916	124.5	21.4	1.46	1.391	48.6	0.94810	356	85.6	148.3	---	---	0.51	0.520	158.8	20.9	1.3	0.533
4-4260	4-4680	0.904	124.1	21.5	1.44	1.378	48.8	0.928	7.541	86.4	150.6	---	---	0.50	0.484	157.3	20.4	1.3	0.499
4-4260	4-4700	0.893	123.8	21.5	1.43	1.367	49.0	0.912	6.134	87.1	152.8	---	---	0.49	0.451	155.6	19.9	1.2	0.470
4-4260	4-4720	0.883	123.5	21.6	1.41	1.358	49.2	0.898	5.297	87.6	154.8	---	---	0.49	0.422	153.9	19.3	1.2	0.443
4-4260	4-4740	0.874	123.3	21.6	1.40	1.350	49.4	0.887	4.747	87.9	156.6	---	---	0.48	0.395	152.1	18.6	1.2	0.418
4-4260	4-4760	0.866	123.2	21.6	1.39	1.343	49.6	0.876	4.361	88.1	158.3	---	---	0.48	0.371	150.1	17.9	1.2	0.396
4-4260	4-4780	0.857	123.1	21.6	1.37	1.337	49.8	0.867	4.078	88.2	159.9	---	---	0.47	0.348	148.1	17.1	1.1	0.376
4-4260	4-4800	0.850	123.1	21.6	1.36	1.332	50.1	0.859	3.863	88.2	161.5	---	---	0.47	0.328	145.9	16.3	1.1	0.358
4-4260	4-4820	0.842	123.1	21.6	1.35	1.327	50.3	0.852	3.697	88.1	162.9	---	---	0.47	0.310	143.5	15.5	1.1	0.342
4-4260	4-4840	0.835	123.2	21.6	1.34	1.324	50.6	0.846	3.565	88.0	164.2	---	---	0.46	0.294	141.0	14.5	1.0	0.327
4-4260	4-4860	0.828	123.4	21.6	1.32	1.320	50.9	0.840	3.460	87.7	165.5	---	---	0.46	0.279	138.4	13.6	1.0	0.314
4-4260	4-4880	0.821	123.5	21.6	1.31	1.318	51.2	0.835	3.375	87.4	166.7	---	---	0.46	0.265	135.7	12.6	1.0	0.302
4-4260	4-4900	0.814	123.7	21.5	1.30	1.315	51.5	0.830	3.305	87.0	167.8	---	---	0.45	0.254	132.9	11.6	0.9	0.291
4-4260	4-4920	0.807	123.9	21.5	1.29	1.313	51.8	0.826	3.249	86.6	168.9	---	---	0.45	0.243	129.9	10.6	0.9	0.281
4-4260	4-4940	0.800	124.2	21.4	1.27	1.312	52.1	0.822	3.202	86.2	170.0	---	---	0.45	0.234	126.9	9.5	0.8	0.272
4-4260	4-4960	0.794	124.5	21.4	1.26	1.310	52.5	0.818	3.163	85.6	171.0	---	---	0.45	0.226	123.8	8.5	0.8	0.265
4-4260	4-4980	0.787	124.8	21.3	1.25	1.309	52.8	0.815	3.132	85.1	171.9	---	---	0.45	0.219	120.6	7.4	0.7	0.258
4-4260	4-5000	0.780	125.1	21.2	1.24	1.308	53.2	0.812	3.106	84.5	172.9	---	---	0.45	0.213	117.4	6.4	0.7	0.251
4-4260	4-5020	0.773	125.4	21.2	1.23	1.307	53.5	0.808	3.086	83.9	173.7	---	---	0.45	0.208	114.1	5.4	0.6	0.246
4-4260	4-5040	0.767	125.8	21.1	1.21	1.306	53.9	0.805	3.069	83.2	174.6	---	---	0.45	0.204	110.9	4.4	0.6	0.241
4-4260	4-5060	0.760	126.2	21.0	1.20	1.306	54.2	0.803	3.056	82.5	175.4	---	---	0.45	0.201	107.7	3.4	0.5	0.237
4-4260	4-5080	0.753	126.6	20.9	1.19	1.305	54.6	0.800	3.046	81.8	176.2	---	---	0.45	0.199	104.6	2.5	0.5	0.234
4-4260	4-5100	0.746	127.0	20.8	1.18	1.305	55.0	0.798	3.039	81.1	177.0	---	---	0.45	0.198	101.5	1.6	0.5	0.231
4-4260	4-5120	0.739	127.4	20.8	1.17	1.305	55.4	0.795	3.034	80.3	177.8	---	---	0.45	0.197	98.6	0.8	0.4	0.228
4-4260	4-5140	0.732	127.8	20.7	1.15	1.305	55.7	0.793	3.032	79.5	178.5	---	---	0.45	0.196	95.7	0.0	0.4	0.226
4-4260	4-5160	0.725	128.3	20.6	1.14	1.305	56.1	0.791	3.031	78.7	179.2	---	---	0.46	0.197	93.0	359.3	0.4	0.224
4-4260	4-5180	0.718	128.8	20.4	1.13	1.305	56.5	0.788	3.031	77.9	179.9	---	---	0.46	0.198	90.3	358.7	0.3	0.223
4-4260	4-5200	0.711	129.3	20.3	1.12	1.305	56.9	0.786	3.034	77.0	180.6	---	5.419	0.46	0.199	87.8	358.1	0.3	0.222
4-4260	4-5220	0.704	129.8	20.2	1.10	1.305	57.3	0.784	3.037	76.1	181.3	---	5.419	0.47	0.200	85.4	357.6	0.3	0.221
DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4260	4-5240	0.697	130.3	20.1	1.09	1.305	57.7	0.782	3.041	75.3	181.9	---	5.421	0.47	0.202	83.2	357.2	0.3	0.221
4-4260	4-5260	0.690	130.8	20.0	1.08	1.305	58.2	0.780	3.047	74.4	182.5	---	5.425	0.47	0.204	81.0	356.8	0.3	0.220
4-4260	4-5280	0.683	131.3	19.8	1.06	1.306	58.6	0.779	3.053	73.4	183.2	---	5.431	0.48	0.207	79.0	356.5	0.3	0.220
4-4260	4-5300	0.676	131.9	19.7	1.05	1.306	59.0	0.777	3.061	72.5	183.8	---	5.438	0.48	0.209	77.1	356.3	0.2	0.221
4-4260	4-5320	0.668	132.5	19.6	1.04	1.306	59.4	0.775	3.069	71.6	184.4	---	5.447	0.49	0.212	75.4	356.1	0.2	0.221
4-4260	4-5340	0.661	133.0	19.4	1.02	1.307	59.9	0.773	3.077	70.6	185.0	---	5.458	0.49	0.215	73.7	356.0	0.2	0.221
4-4260	4-5360	0.654	133.6	19.2	1.01	1.307	60.3	0.772	3.087	69.7	185.6	---	5.469	0.50	0.218	72.1	355.9	0.3	0.222
4-4260	4-5380	0.646	134.2	19.1	0.99	1.307	60.7	0.770	3.097	68.7	186.1	---	5.481	0.51	0.221	70.6	356.0	0.3	0.223
4-4260	4-5400	0.639	134.9	18.9	0.98	1.308	61.2	0.769	3.107	67.7	186.7	---	5.495	0.51	0.224	69.2	356.0	0.3	0.224
4-4260	4-5420	0.632	135.5	18.7	0.96	1.308	61.6	0.767	3.118	66.7	187.3	---	5.509	0.52	0.228	67.9	356.2	0.3	0.225
4-4260	4-5440	0.624	136.1	18.6	0.94	1.309	62.1	0.766	3.129	65.7	187.8	---	5.524	0.53	0.231	66.7	356.4	0.3	0.226
4-4260	4-5460	0.617	136.8	18.4	0.93	1.309	62.5	0.764	3.140	64.6	188.3	---	5.540	0.54	0.234	65.6	356.6	0.3	0.227
4-4260	4-5480	0.609	137.5	18.2	0.91	1.310	63.0	0.763	3.152	63.6	188.9	---	5.567	0.55	0.238	64.5	356.9	0.4	0.228
4-4260	4-5500	0.602	138.2	17.9	0.89	1.310	63.4	0.761	3.164	62.6	189.4	---	5.574	0.56	0.241	63.4	357.3	0.4	0.229
4-4260	4-5520	0.594	138.9	17.7	0.87	1.311	63.9	0.760	3.177	61.5	189.9	---	5.592	0.57	0.245	62.5	357.7	0.4	0.231
4-4260	4-5540	0.587	139.6	17.5	0.85	1.311	64.3	0.759	3.190	60.4	190.4	---	5.610	0.59	0.248	61.6	358.1	0.5	0.232
4-4260	4-5560	0.579	140.3	17.3	0.83	1.312	64.8	0.758	3.203	59.4	190.9	---	5.629	0.60	0.251	60.7	358.6	0.5	0.233
4-4260	4-5580	0.571	141.1	17.0	0.80	1.312	65.3	0.756	3.216	58.3	191.4	---	5.648	0.62	0.255	59.9	359.1	0.5	0.235
4-4260	4-5600	0.564	141.8	16.7	0.78	1.313	65.8	0.755	3.229	57.2	191.9	---	5.668	0.63	0.258	59.1	359.7	0.6	0.236
4-4260	4-5620	0.556	142.6	16.5	0.76	1.313	66.2	0.754	3.243	56.1	192.4	---	5.688	0.65	0.262	58.4	0.3	0.6	0.238
4-4260	4-5640	0.549	143.4	16.2	0.73	1.314	66.7	0.753	3.256	55.0	192.9	---	5.709	0.67	0.265	57.7	0.9	0.7	0.239
4-4260	4-5660	0.541	144.2	15.9	0.70	1.314	67.2	0.752	3.270	53.8	193.4	---	5.730	0.69	0.268	57.1	1.6	0.7	0.241
4-4260	4-5680	0.533	145.1	15.6	0.67	1.315	67.7	0.751	3.284	52.7	193.8	---	5.751	0.72	0.272	56.4	2.4	0.8	0.243
4-4260	4-5700	0.526	145.9	15.2	0.64	1.315	68.2	0.750	3.298	51.6	194.3	---	5.772	0.74	0.275	55.9	3.1	0.9	0.244
4-4260	4-5720	0.518	146.8	14.9	0.60	1.316	68.7	0.749	3.313	50.4	194.8	---	5.794	0.77	0.278	55.3	3.9	0.9	0.246
4-4260	4-5740	0.510	147.7	14.5	0.56	1.316	69.2	0.748	3.327	49.2	195.2	---	5.816	0.80	0.281	54.8	4.7	1.0	0.248
4-4260	4-5760	0.503	148.6	14.1	0.52	1.317	69.7	0.747	3.341	48.1	195.7	---	5.839	0.84	0.284	54.3	5.5	1.1	0.249
4-4260	4-5780	0.495	149.6	13.6	0.47	1.317	70.2	0.746	3.356	46.9	196.1	---	5.861	0.88	0.288	53.8	6.4	1.2	0.251
4-4260	4-5800	0.487	150.5	13.2	0.42	1.317	70.7	0.746	3.371	45.7	196.6	---	5.884	0.92	0.291	53.3	7.3	1.2	0.253
4-4260	4-5820	0.480	151.5	12.7	0.36	1.318	71.2	0.745	3.385	44.5	197.0	---	5.907	0.97	0.294	52.9	8.3	1.3	0.254
4-4260	4-5840	0.472	152.5	12.2	0.30	1.318	71.7	0.744	3.400	43.3	197.4	---	5.930	1.03	0.297	52.5	9.2	1.4	0.256
4-4260	4-5860	0.465	153.5	11.6	0.23	1.319	72.2	0.743	3.415	42.1	197.8	---	5.954	1.09	0.300	52.1	10.2	1.5	0.258
4-4270	4-4610	1.083	128.9	20.2	1.71	1.434	40.7	1.01136.933		97.8	146.6	---	---	0.88	0.628	164.4	20.1	1.3	0.649
4-4270	4-4630	1.063	128.4	20.3	1.68	1.414	41.0	0.98731.668		98.9	149.1	---	---	0.86	0.579	163.2	19.6	1.3	0.604
4-4270	4-4650	1.045	128.0	20.4	1.65	1.396	41.3	0.96612.471		99.7	151.4	---	---	0.84	0.536	161.9	19.2	1.3	0.564
4-4270	4-4670	1.030	127.7	20.4	1.62	1.382	41.6	0.949	8.287	100.3	153.5	---	---	0.82	0.496	160.5	18.7	1.2	0.528
4-4270	4-4690	1.016	127.4	20.5	1.59	1.370	42.0	0.935	6.468	100.7	155.5	---	---	0.81	0.461	158.9	18.1	1.2	0.496
4-4270	4-4710	1.003	127.3	20.5	1.57	1.359	42.3	0.923	5.460	101.0	157.3	---	---	0.79	0.429	157.3	17.4	1.2	0.467
4-4270	4-4730	0.991	127.2	20.5	1.54	1.350	42.6	0.912	4.825	101.2	159.0	---	---	0.78	0.399	155.6	16.8	1.2	0.441
4-4270	4-4750	0.980	127.2	20.5	1.52	1.343	43.0	0.903	4.392	101.2	160.5	---	---	0.77	0.373	153.7	16.0	1.2	0.418
4-4270	4-4770	0.970	127.2	20.5	1.49	1.336	43.3	0.895	4.080	101.1	162.0	---	---	0.75	0.349	151.7	15.2	1.1	0.397
4-4270	4-4790	0.960	127.3	20.5	1.47	1.331	43.7	0.887	3.848	101.0	163.3	---	---	0.74	0.327	149.5	14.4	1.1	0.377
4-4270	4-4810	0.951	127.4	20.5	1.45	1.326	44.0	0.881	3.671	100.7	164.6	---	---	0.73	0.307	147.2	13.5	1.1	0.360
4-4270	4-4830	0.942	127.5	20.4	1.43	1.322	44.4	0.875	3.532	100.4	165.8	---	---	0.72	0.289	144.7	12.6	1.0	0.345
4-4270	4-4850	0.933	127.7	20.4	1.41	1.318	44.7	0.869	3.421	100.1	166.9	---	---	0.72	0.273	142.1	11.6	1.0	0.331
4-4270	4-4870	0.924	127.9	20.3	1.39	1.315	45.1	0.864	3.332	99.6	168.0	---	---	0.71	0.258	139.3	10.7	0.9	0.318
4-4270	4-4890	0.916	128.1	20.3	1.37	1.313	45.5	0.860	3.261	99.1	169.0	---	---	0.70	0.245	136.4	9.7	0.9	0.307
4-4270	4-4910	0.908	128.4	20.2	1.35	1.311	45.9	0.855	3.202	98.6	170.0	---	---	0.69	0.234	133.3	8.6	0.9	0.297
4-4270	4-4930	0.900	128.7	20.2	1.33	1.309	46.3	0.851	3.155	98.0	170.9	---	---	0.69	0.223	130.1	7.6	0.8	0.288
4-4270	4-4950	0.892	129.0	20.1	1.31	1.307	46.7	0.848	3.116	97.4	171.8	---	---	0.68	0.215	126.8	6.6	0.8	0.280
4-4270	4-4970	0.884	129.3	20.0	1.29	1.306	47.1	0.844	3.084	96.8	172.7	---	---	0.68	0.207	123.4	5.6	0.7	0.272
4-4270	4-4990	0.876	129.6	19.9	1.27	1.305	47.5	0.841	3.058	96.1	173.5	---	---	0.67	0.201	119.9	4.6	0.7	0.266
4-4270	4-5010	0.869	130.0	19.8	1.26	1.304	47.9	0.837	3.038	95.4	174.3	---	---	0.67	0.195	116.3	3.6	0.6	0.260
4-4270	4-5030	0.861	130.3	19.7	1.24	1.304	48.3	0.834	3.021	94.6	175.1	---	---	0.67	0.191	112.8	2.7	0.6	0.255
4-4270	4-5050	0.853	130.7	19.6	1.22	1.303	48.7	0.831	3.009	93.9	175.9	---	---	0.66	0.188	109.3	1.8	0.6	0.251
4-4270	4-5070	0.846	131.1	19.5	1.20	1.303	49.1	0.828	2.999	93.1	176.6	---	---	0.66	0.185	105.8	1.0	0.5	0.247
4-4270	4-5090	0.838	131.5	19.4	1.18	1.302	49.5	0.826	2.993	92.3	177.3	---	---	0.66	0.184	102.4	0.2	0.5	0.244
4-4270	4-5110	0.830	131.9	19.3	1.17	1.302	50.0	0.823	2.988	91.4	178.0	---	---	0.66	0.183	99.2	359.4	0.5	0.242
4-4270	4-5130	0.823	132.3	19.2	1.15	1.302	50.4	0.820	2.986	90.6	178.7	---	---	0.66	0.183	96.0	358.7	0.4	0.239
4-4270	4-5150	0.815	132.8	19.1	1.13	1.302	50.8	0.818	2.986	89.7	179.3	---	---	0.66	0.184	93.0	358.1	0.4	0.237
4-4270	4-5170	0.807	133.2	19.0	1.11	1.302	51.3	0.815	2.987	88.9	180.0	---	---	0.66	0.185	90.1	357.5	0.4	0.236
4-4270	4-5190	0.799	133.7	18.9	1.10	1.302	51.7	0.813	2.990	88.0	180.6	---	5.421	0.66	0.186	87.3	357.0	0.4	0.235
4-4270	4-5210	0.792	134.2	18.7	1.08	1.302	52.1	0.811	2.994	87.0	181.2	---	5.421	0.66	0.188	84.7	356.5	0.3	0.234
4-4270	4-5230	0.784	134.7	18.6	1.06	1.303	52.6	0.808	2.999	86.1	181.8	---	5.424	0.66	0.190	82.3	356.2	0.3	0.233
4-4270	4-5250	0.776	135.1	18.5	1.04	1.303	53.0	0.806	3.005	85.2	182.4	---	5.428	0.66	0.193	80.0	355.9	0.3	0.233
4-4270	4-5270	0.768	135.6	18.3	1.03	1.303	53.5	0.804	3.012	84.2	183.0	---	5.435	0.67	0.195	77.9	355.6	0.3	0.232
4-4270	4-5290	0.760	136.2	18.2	1.01	1.303	53.9	0.802	3.020	83.3	183.6	---	5.443	0.67	0.198	75.9	355.4	0.3	0.232
4-4270	4-5310	0.753	136.7	18.0	0.99	1.304	54.4	0.800	3.029	82.3	184.2	---	5.452	0.67	0.201	74.0	355.3	0.3	0.233
4-4270	4-5330	0.745	137.2	17.9	0.97	1.304	54.9	0.798	3.038	81.3	184.7	---	5.463	0.68	0.205	72.2	355.2	0.3	0.233
4-4270	4-5350	0.737	137.7	17.7	0.95	1.305	55.3	0.796	3.048	80.3	185.3	---	5.474	0.68	0.208	70.6	355.2	0.3	0.233
4-4270	4-5370	0.729	138.3	17.5	0.93	1.305	55.8	0.794	3.059	79.3	185.8	---	5.487	0.69	0.212	69.1	355.3	0.3	0.234
4-4270	4-5390	0.721	138.9	17.4	0.91	1.306	56.3	0.792	3.070	78.3	186.3	---	5.501	0.69	0.215	67.6	355.4	0.3	0.235
4-4270	4-5410	0.713	139.4	17.2	0.89	1.306	56.7	0.790	3.081	77.2	186.9	---	5.516	0.70	0.219	66.3	355.6	0.4	0.235
4-4270	4-5430	0.705	140.0	17.0	0.87	1.306	57.2	0.788	3.093	76.2	187.4	---	5.531	0.71	0.222	65.1	355.8	0.4	0.236
4-4270	4-5450	0.697	140.6	16.8	0.85	1.307	57.7	0.787	3.105	75.2	187.9	---	5.548	0.71	0.226	63.9	356.1	0.4	0.237
4-4270	4-5470	0.689	141.2	16.6	0.83	1.307	58.1	0.785	3.118	74.1	188.4	---	5.564	0.72	0.230	62.8	356.4	0.4	0.238
4-4270	4-5490	0.681	141.8	16.4	0.81	1.308	58.6	0.783	3.130	73.0	188.9	---	5.582	0.73	0.233	61.8	356.8	0.5	0.239
4-4270	4-5510	0.673	142.4	16.2	0.79	1.308	59.1	0.781	3.143	72.0	189.4	---	5.600	0.74	0.237	60.8	357.2	0.5	0.240
4-4270	4-5530	0.665	143.0	16.0	0.76	1.309	59.6	0.780	3.157	70.9	189.9	---	5.619	0.75	0.241	59.9	357.7	0.5	0.242
4-4270	4-5550	0.657	143.7	15.7	0.74	1.309	60.1	0.778	3.170	69.8	190.4	---	5.638	0.76	0.245	59.1	358.2	0.6	0.243

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4290	4-4630	1.328	135.6	18.1	2.57	1.413	25.4	0.99539	9.688	129.8	159.8	---	---	2.01	0.585	169.2	15.7	1.2	0.648
4-4290	4-4650	1.303	135.6	18.1	2.47	1.394	26.1	0.98512	6.636	129.6	161.2	---	---	1.93	0.537	168.0	15.1	1.2	0.604
4-4290	4-4670	1.280	135.6	18.1	2.38	1.378	26.7	0.976	8.088	129.4	162.5	---	---	1.85	0.493	166.8	14.5	1.1	0.566
4-4290	4-4690	1.260	135.6	18.1	2.29	1.365	27.4	0.969	6.228	129.1	163.6	---	---	1.78	0.454	165.5	13.8	1.1	0.532
4-4290	4-4710	1.241	135.7	18.0	2.21	1.353	28.0	0.962	5.226	128.7	164.7	---	---	1.71	0.419	164.0	13.1	1.1	0.502
4-4290	4-4730	1.224	135.9	18.0	2.14	1.344	28.6	0.955	4.605	128.2	165.8	---	---	1.65	0.387	162.4	12.3	1.1	0.475
4-4290	4-4750	1.208	136.1	17.9	2.07	1.336	29.2	0.949	4.188	127.7	166.8	---	---	1.60	0.358	160.7	11.5	1.0	0.450
4-4290	4-4770	1.194	136.3	17.8	2.01	1.329	29.8	0.944	3.890	127.1	167.7	---	---	1.55	0.331	158.8	10.6	1.0	0.428
4-4290	4-4790	1.180	136.5	17.8	1.95	1.323	30.4	0.938	3.670	126.4	168.5	---	---	1.50	0.307	156.7	9.8	1.0	0.409
4-4290	4-4810	1.167	136.8	17.7	1.89	1.318	31.0	0.934	3.503	125.8	169.4	---	---	1.46	0.285	154.4	8.8	0.9	0.391
4-4290	4-4830	1.154	137.0	17.6	1.83	1.314	31.5	0.929	3.373	125.0	170.2	---	---	1.42	0.265	152.0	7.9	0.9	0.376
4-4290	4-4850	1.142	137.3	17.5	1.78	1.310	32.1	0.925	3.271	124.3	170.9	---	---	1.39	0.247	149.3	7.0	0.9	0.361
4-4290	4-4870	1.131	137.7	17.4	1.73	1.307	32.6	0.921	3.189	123.5	171.6	---	---	1.35	0.231	146.3	6.0	0.8	0.349
4-4290	4-4890	1.120	138.0	17.3	1.69	1.305	33.2	0.917	3.124	122.7	172.3	---	---	1.32	0.216	143.1	5.1	0.8	0.337
4-4290	4-4910	1.109	138.3	17.2	1.64	1.303	33.8	0.913	3.071	121.9	173.0	---	---	1.29	0.203	139.7	4.1	0.7	0.327
4-4290	4-4930	1.098	138.7	17.1	1.60	1.301	34.3	0.909	3.028	121.0	173.7	---	---	1.27	0.192	136.0	3.2	0.7	0.318
4-4290	4-4950	1.088	139.1	17.0	1.56	1.300	34.9	0.906	2.994	120.1	174.3	---	---	1.24	0.182	132.1	2.3	0.7	0.310
4-4290	4-4970	1.078	139.4	16.9	1.52	1.298	35.4	0.902	2.967	119.3	175.0	---	---	1.22	0.173	128.0	1.4	0.6	0.303
4-4290	4-4990	1.068	139.8	16.7	1.48	1.297	35.9	0.899	2.945	118.4	175.6	---	---	1.20	0.166	123.7	0.5	0.6	0.297
4-4290	4-5010	1.058	140.2	16.6	1.44	1.297	36.5	0.895	2.928	117.4	176.2	---	---	1.18	0.161	119.3	359.7	0.6	0.291
4-4290	4-5030	1.048	140.6	16.5	1.41	1.296	37.0	0.892	2.915	116.5	176.7	---	---	1.16	0.156	114.9	359.0	0.5	0.286
4-4290	4-5050	1.039	141.0	16.4	1.37	1.296	37.6	0.889	2.905	115.6	177.3	---	---	1.14	0.153	110.4	358.2	0.5	0.282
4-4290	4-5070	1.029	141.4	16.2	1.34	1.295	38.1	0.886	2.899	114.6	177.9	---	---	1.13	0.151	106.0	357.6	0.5	0.278
4-4290	4-5090	1.020	141.9	16.1	1.30	1.295	38.6	0.883	2.895	113.6	178.4	---	---	1.11	0.150	101.7	356.9	0.4	0.275
4-4290	4-5110	1.011	142.3	15.9	1.27	1.295	39.2	0.880	2.893	112.6	179.0	---	---	1.10	0.150	97.5	356.4	0.4	0.272
4-4290	4-5130	1.001	142.7	15.8	1.24	1.295	39.7	0.877	2.894	111.7	179.5	---	---	1.09	0.151	93.5	355.9	0.4	0.270
4-4290	4-5150	0.992	143.2	15.7	1.21	1.295	40.2	0.874	2.896	110.7	180.0	---	5.426	1.08	0.152	89.8	355.4	0.4	0.268
4-4290	4-5170	0.983	143.6	15.5	1.18	1.295	40.8	0.871	2.899	109.7	180.5	---	5.425	1.07	0.154	86.3	355.0	0.4	0.266
4-4290	4-5190	0.974	144.0	15.3	1.15	1.296	41.3	0.868	2.904	108.6	181.1	---	5.426	1.06	0.157	83.0	354.7	0.3	0.265
4-4290	4-5210	0.965	144.5	15.2	1.12	1.296	41.8	0.866	2.910	107.6	181.6	---	5.429	1.05	0.160	80.0	354.4	0.3	0.264
4-4290	4-5230	0.956	145.0	15.0	1.09	1.296	42.3	0.863	2.917	106.6	182.1	---	5.434	1.04	0.164	77.2	354.2	0.3	0.263
4-4290	4-5250	0.947	145.4	14.9	1.06	1.297	42.9	0.860	2.925	105.5	182.6	---	5.441	1.03	0.167	74.7	354.1	0.3	0.262
4-4290	4-5270	0.938	145.9	14.7	1.03	1.297	43.4	0.858	2.934	104.5	183.1	---	5.450	1.03	0.171	72.3	354.0	0.3	0.262
4-4290	4-5290	0.929	146.4	14.5	1.01	1.297	43.9	0.855	2.944	103.4	183.5	---	5.460	1.02	0.175	70.2	354.0	0.3	0.261
4-4290	4-5310	0.920	146.8	14.4	0.98	1.298	44.5	0.852	2.954	102.4	184.0	---	5.472	1.02	0.179	68.2	354.0	0.3	0.261
4-4290	4-5330	0.911	147.3	14.2	0.95	1.298	45.0	0.850	2.965	101.3	184.5	---	5.485	1.01	0.184	66.4	354.1	0.3	0.261
4-4290	4-5350	0.902	147.8	14.0	0.92	1.299	45.5	0.847	2.976	100.2	185.0	---	5.498	1.01	0.188	64.7	354.2	0.4	0.261
4-4290	4-5370	0.893	148.3	13.8	0.90	1.299	46.1	0.845	2.988	99.2	185.4	---	5.513	1.01	0.193	63.2	354.4	0.4	0.262
4-4290	4-5390	0.884	148.8	13.7	0.87	1.300	46.6	0.842	3.001	98.1	185.9	---	5.529	1.01	0.197	61.8	354.6	0.4	0.262
4-4290	4-5410	0.874	149.3	13.5	0.84	1.300	47.1	0.840	3.014	97.0	186.4	---	5.545	1.01	0.202	60.5	354.9	0.4	0.263
4-4290	4-5430	0.865	149.8	13.3	0.81	1.301	47.6	0.838	3.027	95.9	186.8	---	5.562	1.01	0.206	59.3	355.3	0.4	0.263
4-4290	4-5450	0.856	150.3	13.1	0.79	1.302	48.2	0.835	3.041	94.8	187.3	---	5.580	1.01	0.210	58.3	355.6	0.5	0.264
4-4290	4-5470	0.847	150.8	12.9	0.76	1.302	48.7	0.833	3.054	93.7	187.8	---	5.598	1.01	0.215	57.2	356.1	0.5	0.264
4-4290	4-5490	0.838	151.4	12.7	0.73	1.303	49.2	0.831	3.069	92.6	188.2	---	5.617	1.01	0.219	56.3	356.5	0.5	0.265
4-4290	4-5510	0.829	151.9	12.5	0.70	1.303	49.8	0.828	3.083	91.4	188.7	---	5.636	1.02	0.224	55.4	357.0	0.5	0.266
4-4290	4-5530	0.820	152.4	12.2	0.67	1.304	50.3	0.826	3.098	90.3	189.1	---	5.656	1.02	0.228	54.6	357.6	0.6	0.267
4-4290	4-5550	0.811	153.0	12.0	0.65	1.304	50.8	0.824	3.112	89.2	189.6	---	5.676	1.02	0.232	53.9	358.1	0.6	0.268
4-4290	4-5570	0.802	153.5	11.8	0.62	1.305	51.4	0.822	3.127	88.0	190.0	---	5.697	1.03	0.236	53.2	358.8	0.7	0.269
4-4290	4-5590	0.793	154.1	11.6	0.59	1.306	51.9	0.819	3.143	86.9	190.4	---	5.718	1.04	0.241	52.6	359.4	0.7	0.270
4-4290	4-5610	0.784	154.6	11.3	0.56	1.306	52.5	0.817	3.158	85.8	190.9	---	5.739	1.04	0.245	52.0	0.1	0.7	0.271
4-4290	4-5630	0.775	155.2	11.1	0.53	1.307	53.0	0.815	3.173	84.6	191.3	---	5.760	1.05	0.249	51.4	0.8	0.8	0.272
4-4290	4-5650	0.766	155.8	10.8	0.50	1.307	53.5	0.813	3.189	83.4	191.8	---	5.782	1.06	0.253	50.9	1.5	0.8	0.273
4-4290	4-5670	0.757	156.3	10.6	0.46	1.308	54.1	0.811	3.205	82.3	192.2	---	5.804	1.07	0.257	50.4	2.3	0.9	0.274
4-4290	4-5690	0.747	156.9	10.3	0.43	1.309	54.6	0.809	3.221	81.1	192.6	---	5.826	1.08	0.261	50.0	3.1	1.0	0.275
4-4290	4-5710	0.738	157.5	10.0	0.40	1.309	55.2	0.807	3.236	79.9	193.1	---	5.848	1.10	0.265	49.5	3.9	1.0	0.276
4-4290	4-5730	0.729	158.1	9.8	0.37	1.310	55.7	0.805	3.252	78.7	193.5	---	5.871	1.11	0.268	49.2	4.8	1.1	0.277
4-4290	4-5750	0.720	158.7	9.5	0.33	1.310	56.2	0.803	3.269	77.5	193.9	---	5.894	1.12	0.272	48.8	5.7	1.1	0.278
4-4290	4-5770	0.711	159.4	9.2	0.29	1.311	56.8	0.801	3.285	76.3	194.3	---	5.916	1.14	0.276	48.4	6.6	1.2	0.279
4-4290	4-5790	0.701	160.0	8.9	0.26	1.311	57.3	0.799	3.301	75.1	194.8	---	5.939	1.16	0.279	48.1	7.5	1.3	0.280
4-4290	4-5810	0.692	160.6	8.6	0.22	1.312	57.9	0.798	3.317	73.9	195.2	---	5.963	1.18	0.283	47.8	8.5	1.3	0.282
4-4290	4-5830	0.683	161.3	8.2	0.18	1.313	58.4	0.796	3.333	72.7	195.6	---	5.986	1.20	0.286	47.5	9.4	1.4	0.283
4-4290	4-5850	0.674	161.9	7.9	0.14	1.313	59.0	0.794	3.350	71.5	196.0	---	6.009	1.22	0.290	47.3	10.4	1.5	0.284
4-4290	4-5870	0.665	162.6	7.6	0.09	1.314	59.5	0.792	3.366	70.2	196.4	---	6.033	1.25	0.293	47.0	11.4	1.5	0.285
4-4290	4-5890	0.655	163.3	7.2	0.05	1.314	60.1	0.790	3.383	69.0	196.8	---	6.056	1.28	0.297	46.8	12.5	1.6	0.286
4-4300	4-4660	1.420	139.8	16.8	3.42	1.386	18.5	0.99110	6.436	144.7	166.9	---	---	3.01	0.521	171.2	12.9	1.1	0.612
4-4300	4-4680	1.395	139.9	16.7	3.23	1.371	19.3	0.986	7.184	143.9	167.6	---	---	2.82	0.477	170.1	12.2	1.1	0.575
4-4300	4-4700	1.373	140.1	16.6	3.05	1.358	20.1	0.981	5.711	143.1	168.3	---	---	2.67	0.438	168.8	11.5	1.0	0.541
4-4300	4-4720	1.352	140.4	16.5	2.90	1.347	20.9	0.977	4.878	142.2	169.0	---	---	2.53	0.402	167.5	10.7	1.0	0.512
4-4300	4-4740	1.333	140.6	16.5	2.76	1.337	21.6	0.972	4.348	141.3	169.6	---	---	2.40	0.370	166.0	9.9	1.0	0.485
4-4300	4-4760	1.315	140.9	16.4	2.63	1.329	22.4	0.968	3.985	140.4	170.2	---	---	2.29	0.340	164.3	9.0	0.9	0.461
4-4300	4-4780	1.299	141.2	16.3	2.51	1.323	23.1	0.964	3.724	139.5	170.8	---	---	2.19	0.313	162.5	8.1	0.9	0.440
4-4300	4-4800	1.283	141.5	16.1	2.41	1.317	23.8	0.960	3.530	138.6	171.4	---	---	2.10	0.289	160.5	7.2	0.9	0.421
4-4300	4-4820	1.269	141.9	16.0	2.31	1.312	24.5	0.956	3.381	137.7	172.0	---	---	2.02	0.266	158.2	6.3	0.8	0.404
4-4300	4-4840	1.255	142.2	15.9	2.22	1.308	25.2	0.952	3.266	136.7	172.5	---	---	1.94	0.246	155.7	5.4	0.8	0.389
4-4300	4-4860	1.242	142.6	15.8	2.13	1.305	25.8	0.949	3.174	135.8	173.1	---	---	1.88	0.227	153.0	4.5	0.8	0.375
4-4300	4-4880	1.229	143.0	15.7	2.05	1.302	26.5	0.945	3.102	134.8	173.6	---	---	1.81	0.211	149.9	3.6	0.7	0.363
4-4300	4-4900	1.216	143.3	15.5	1.98	1.300	27.1	0.942	3.044	133.8	174.2	---	---	1.76	0.196	146.6	2.7	0.7	0.352
4-4300	4-4920	1.204	143.7	15.4	1.91	1.298	27.8	0.938	2.997	132.8	174.7	---	---	1.70	0.182	142.9	1.8	0.6	0.342
4-4300	4-4940	1.193	144.1	15.3	1.84	1.296	28.4	0.935	2.959	131.8	175.2	---	---	1.66	0.170	138.9	0.9	0.6	0.333
4-4300	4-4960	1.181	144.5	15.1	1.78	1.295	29.0	0.931	2.930	130.8	175.7	---	---	1.61	0.160	134.5	0.1	0.6	0.326

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4500	4-4940	0.824	163.5	3.2	-2.56	1.414	125.7	1.00606	.051	288.9	498.7	0.664	---	2.54	0.614	159.8	47.9	3.2	0.615
4-4500	4-4960	0.796	163.2	3.4	-2.43	1.398	124.7	0.97527	.124	289.6	500.8	0.675	---	2.42	0.575	158.4	48.1	3.2	0.577
4-4500	4-4980	0.772	162.9	3.6	-2.31	1.383	123.9	0.94813	.067	290.1	502.9	0.684	---	2.32	0.539	156.9	48.1	3.2	0.542
4-4500	4-5000	0.750	162.6	3.7	-2.20	1.371	123.1	0.923	9.038	290.6	504.9	0.693	---	2.23	0.507	155.3	48.1	3.2	0.509
4-4500	4-5020	0.731	162.4	3.9	-2.10	1.360	122.4	0.902	7.139	291.1	506.9	0.700	---	2.15	0.477	153.6	48.1	3.2	0.480
4-4500	4-5040	0.714	162.1	4.1	-2.01	1.351	121.8	0.883	6.040	291.5	508.8	0.707	---	2.07	0.449	151.9	47.9	3.2	0.453
4-4500	4-5060	0.699	162.0	4.2	-1.92	1.343	121.3	0.866	5.328	291.9	510.7	0.713	---	2.01	0.424	150.0	47.7	3.3	0.428
4-4500	4-5080	0.686	161.8	4.4	-1.84	1.335	120.8	0.851	4.832	292.2	512.5	0.718	---	1.94	0.401	148.1	47.4	3.3	0.405
4-4500	4-5100	0.675	161.7	4.5	-1.76	1.329	120.4	0.838	4.470	292.5	514.3	0.722	---	1.88	0.380	146.1	47.0	3.3	0.384
4-4500	4-5120	0.665	161.6	4.7	-1.69	1.324	120.0	0.827	4.195	292.7	516.1	0.726	---	1.83	0.360	144.0	46.5	3.3	0.365
4-4500	4-5140	0.656	161.5	4.8	-1.62	1.319	119.7	0.817	3.980	292.9	517.8	0.729	---	1.78	0.342	141.7	45.9	3.3	0.347
4-4500	4-5160	0.649	161.5	4.9	-1.55	1.314	119.5	0.808	3.810	293.0	519.4	0.731	---	1.73	0.326	139.4	45.2	3.3	0.331
4-4500	4-5180	0.643	161.5	5.0	-1.49	1.311	119.3	0.800	3.672	293.0	521.0	0.733	---	1.69	0.311	137.0	44.5	3.3	0.316
4-4500	4-5200	0.638	161.5	5.1	-1.43	1.307	119.1	0.794	3.559	293.0	522.5	0.734	---	1.65	0.297	134.5	43.6	3.3	0.303
4-4500	4-5220	0.635	161.6	5.1	-1.37	1.305	119.0	0.788	3.466	293.0	524.0	0.735	---	1.62	0.284	131.9	42.7	3.3	0.290
4-4500	4-5240	0.632	161.7	5.2	-1.32	1.302	119.0	0.783	3.388	292.9	526.4	0.735	---	1.58	0.273	129.2	41.6	3.2	0.279
4-4500	4-5260	0.629	161.8	5.2	-1.27	1.300	118.9	0.779	3.323	292.7	526.8	0.735	---	1.55	0.263	126.4	40.5	3.2	0.269
4-4500	4-5280	0.628	162.0	5.3	-1.21	1.298	118.9	0.775	3.268	292.5	528.1	0.734	---	1.52	0.254	123.5	39.3	3.2	0.260
4-4500	4-5300	0.628	162.1	5.3	-1.17	1.296	119.0	0.773	3.222	292.2	529.4	0.733	---	1.50	0.245	120.6	38.1	3.1	0.252
4-4500	4-5320	0.628	162.4	5.3	-1.12	1.295	119.0	0.770	3.183	291.9	530.6	0.731	---	1.47	0.238	117.6	36.8	3.1	0.245
4-4500	4-5340	0.628	162.6	5.3	-1.07	1.293	119.1	0.769	3.149	291.6	531.8	0.729	---	1.45	0.232	114.5	35.5	3.1	0.239
4-4500	4-5360	0.630	162.9	5.3	-1.03	1.292	119.2	0.767	3.121	291.2	533.0	0.726	---	1.43	0.226	111.5	34.1	3.0	0.234
4-4500	4-5380	0.632	163.1	5.3	-0.99	1.291	119.4	0.766	3.098	290.8	534.1	0.723	---	1.41	0.221	108.4	32.7	2.9	0.230
4-4500	4-5400	0.634	163.5	5.2	-0.94	1.291	119.6	0.766	3.078	290.3	535.2	0.720	---	1.39	0.218	105.3	31.4	2.9	0.226
4-4500	4-5420	0.638	163.8	5.2	-0.90	1.290	119.8	0.766	3.061	289.8	536.2	0.716	---	1.37	0.214	102.2	30.0	2.8	0.223
4-4500	4-5440	0.641	164.1	5.1	-0.86	1.289	120.0	0.766	3.048	289.2	537.2	0.712	---	1.36	0.212	99.1	28.7	2.8	0.221
4-4500	4-5460	0.645	164.5	5.1	-0.82	1.289	120.3	0.767	3.037	288.6	538.2	0.708	---	1.34	0.210	96.1	27.5	2.7	0.220
4-4500	4-5480	0.650	164.9	5.0	-0.78	1.288	120.6	0.768	3.028	287.9	539.1	0.703	---	1.33	0.209	93.1	26.3	2.6	0.219
4-4500	4-5500	0.655	165.3	4.9	-0.75	1.288	120.9	0.769	3.021	287.2	540.0	0.698	---	1.32	0.208	90.2	25.1	2.6	0.219
4-4500	4-5520	0.660	165.8	4.8	-0.71	1.288	121.2	0.771	3.017	286.5	540.8	0.692	5.341	1.31	0.208	87.3	24.1	2.5	0.220
4-4500	4-5540	0.666	166.2	4.7	-0.67	1.288	121.6	0.772	3.013	285.8	541.6	0.686	5.340	1.30	0.208	84.5	23.1	2.4	0.221
4-4500	4-5560	0.673	166.7	4.6	-0.63	1.288	121.9	0.774	3.011	285.0	542.4	0.680	5.343	1.29	0.208	81.9	22.3	2.4	0.222
4-4500	4-5580	0.679	167.2	4.5	-0.60	1.288	122.3	0.777	3.011	284.1	543.1	0.673	5.349	1.28	0.209	79.3	21.6	2.3	0.224
4-4500	4-5600	0.687	167.7	4.3	-0.56	1.288	122.8	0.779	3.011	283.3	543.9	0.666	5.357	1.27	0.210	76.8	20.9	2.3	0.226
4-4500	4-5620	0.694	168.2	4.2	-0.53	1.288	123.2	0.782	3.013	282.3	544.6	0.658	5.368	1.27	0.212	74.3	20.4	2.2	0.229
4-4500	4-5640	0.702	168.7	4.1	-0.49	1.288	123.6	0.784	3.016	281.4	545.2	0.651	5.381	1.26	0.214	72.0	19.9	2.2	0.231
4-4500	4-5660	0.710	169.2	3.9	-0.46	1.288	124.1	0.787	3.019	280.4	545.8	0.642	5.396	1.26	0.216	69.8	19.6	2.1	0.235
4-4500	4-5680	0.719	169.8	3.7	-0.42	1.288	124.6	0.790	3.024	279.4	546.4	0.634	5.413	1.26	0.218	67.6	19.4	2.1	0.238
4-4500	4-5700	0.728	170.3	3.6	-0.38	1.288	125.1	0.794	3.029	278.4	547.0	0.625	5.432	1.26	0.220	65.5	19.3	2.1	0.242
4-4500	4-5720	0.737	170.9	3.4	-0.35	1.289	125.7	0.797	3.034	277.3	547.5	0.616	5.453	1.26	0.223	63.5	19.3	2.0	0.246
4-4500	4-5740	0.747	171.4	3.2	-0.31	1.289	126.2	0.801	3.041	276.2	548.0	0.606	5.475	1.26	0.225	61.6	19.3	2.0	0.250
4-4500	4-5760	0.757	172.0	3.0	-0.28	1.289	126.8	0.804	3.048	275.1	548.5	0.596	5.499	1.26	0.228	59.8	19.5	2.0	0.254
4-4500	4-5780	0.768	172.6	2.8	-0.24	1.290	127.4	0.808	3.055	273.9	549.0	0.586	5.524	1.26	0.231	58.0	19.7	2.0	0.259
4-4500	4-5800	0.779	173.2	2.6	-0.21	1.290	128.0	0.812	3.063	272.7	549.4	0.576	5.551	1.27	0.234	56.3	20.1	2.0	0.263
4-4500	4-5820	0.790	173.8	2.4	-0.17	1.290	128.6	0.816	3.072	271.5	549.8	0.565	5.579	1.27	0.237	54.6	20.5	2.0	0.268
4-4500	4-5840	0.801	174.5	2.2	-0.13	1.291	129.3	0.820	3.081	270.2	550.2	0.554	5.608	1.28	0.240	53.0	21.0	2.0	0.273
4-4500	4-5860	0.813	175.1	2.0	-0.10	1.291	130.0	0.825	3.090	268.9	550.5	0.542	5.638	1.28	0.243	51.5	21.5	2.0	0.278
4-4500	4-5880	0.825	175.7	1.8	-0.06	1.291	130.6	0.829	3.099	267.6	550.8	0.530	5.669	1.29	0.246	50.0	22.2	2.0	0.283
4-4500	4-5900	0.838	176.4	1.6	-0.02	1.292	131.4	0.833	3.109	266.2	551.1	0.518	5.701	1.30	0.250	48.5	22.9	2.0	0.289
4-4500	4-5920	0.851	177.0	1.3	0.02	1.292	132.1	0.838	3.120	264.8	551.4	0.505	5.734	1.31	0.253	47.1	23.6	2.1	0.294
4-4500	4-5940	0.864	177.7	1.1	0.06	1.293	132.8	0.843	3.130	263.4	551.6	0.492	5.768	1.32	0.256	45.8	24.4	2.1	0.300
4-4500	4-5960	0.878	178.3	0.8	0.10	1.293	133.6	0.847	3.141	261.9	551.9	0.479	5.803	1.34	0.259	44.4	25.3	2.1	0.305
4-4500	4-5980	0.892	179.0	0.6	0.14	1.293	134.4	0.852	3.153	260.5	552.1	0.466	5.839	1.35	0.262	43.1	26.3	2.1	0.311
4-4500	4-6000	0.906	179.7	0.3	0.19	1.294	135.2	0.857	3.164	258.9	552.2	0.452	5.876	1.37	0.266	41.8	27.3	2.2	0.317
4-4500	4-6020	0.920	180.4	0.1	0.23	1.294	136.0	0.862	3.176	257.4	552.4	0.438	5.913	1.39	0.269	40.6	28.3	2.2	0.323
4-4500	4-6040	0.935	181.1	-0.2	0.28	1.295	136.9	0.867	3.188	255.8	552.5	0.424	5.952	1.41	0.272	39.4	29.4	2.2	0.329
4-4500	4-6060	0.951	181.8	-0.4	0.32	1.295	137.7	0.872	3.200	254.2	552.6	0.410	5.990	1.43	0.275	38.1	30.5	2.3	0.335
4-4500	4-6080	0.966	182.5	-0.7	0.37	1.296	138.6	0.877	3.212	252.6	552.6	0.395	6.030	1.45	0.278	37.0	31.7	2.3	0.341
4-4500	4-6100	0.982	183.2	-1.0	0.42	1.296	139.5	0.882	3.225	250.9	552.6	0.380	6.070	1.48	0.281	35.8	32.9	2.4	0.348
4-4510	4-4950	0.770	167.7	-0.8	-3.57	1.418	122.2	1.01166	.019	295.9	496.6	0.719	---	3.68	0.618	159.1	49.5	3.7	0.614
4-4510	4-4970	0.742	167.4	-0.4	-3.32	1.402	121.3	0.97731	.977	296.6	498.8	0.729	---	3.44	0.580	157.7	49.6	3.7	0.576
4-4510	4-4990	0.717	167.0	-0.1	-3.09	1.387	120.4	0.94814	.071	297.3	501.0	0.738	---	3.23	0.544	156.1	49.8	3.7	0.541
4-4510	4-5010	0.695	166.7	0.3	-2.89	1.375	119.7	0.921	9.497	297.9	503.1	0.746	---	3.05	0.512	154.6	49.8	3.7	0.509
4-4510	4-5030	0.675	166.5	0.6	-2.71	1.364	119.0	0.898	7.416	298.4	505.1	0.753	---	2.89	0.482	152.9	49.8	3.7	0.479
4-4510	4-5050	0.658	166.2	0.9	-2.55	1.355	118.4	0.878	6.233	298.9	507.2	0.760	---	2.74	0.455	151.2	49.7	3.7	0.452
4-4510	4-5070	0.643	166.0	1.2	-2.41	1.347	117.8	0.860	5.474	299.3	509.1	0.766	---	2.61	0.430	149.3	49.5	3.7	0.427
4-4510	4-5090	0.630	165.8	1.4	-2.27	1.339	117.3	0.844	4.949	299.7	511.0	0.771	---	2.50	0.407	147.4	49.2	3.7	0.404
4-4510	4-5110	0.619	165.7	1.6	-2.15	1.333	116.9	0.830	4.567	300.0	512.9	0.775	---	2.40	0.386	145.4	48.9	3.7	0.383
4-4510	4-5130	0.608	165.5	1.9	-2.04	1.327	116.6	0.818	4.278	300.3	514.7	0.779	---	2.30	0.367	143.3	48.4	3.7	0.364
4-4510	4-5150	0.600	165.5	2.1	-1.93	1.323	116.2	0.807	4.054	300.5	516.4	0.782	---	2.22	0.349	141.1	47.9	3.7	0.346
4-4510	4-5170	0.592	165.4	2.3	-1.83	1.318	116.0	0.798	3.876	300.7	518.1	0.784	---	2.14	0.333	138.9	47.3	3.7	0.329
4-4510	4-5190	0.586	165.4	2.4	-1.74	1.315	115.8	0.789	3.732	300.8	519.7	0.786	---	2.07	0.318	136.5	46.6	3.7	0.314
4-4510	4-5210	0.581	165.4	2.6	-1.66	1.311	115.6	0.782	3.615	300.9	521.3	0.788	---	2.00	0.304	134.0	45.8	3.7	0.301
4-4510	4-5230	0.577	165.5	2.7	-1.58	1.308	115.5	0.776	3.517	300.9	522.8	0.789	---	1.94	0.292	131.5	44.9	3.6	0.288
4-4510	4-5250	0.574	165.6	2.8	-1.50	1.306	115.4	0.770	3.436	300.8	524.3	0.789	---	1.89	0.281	128.9	43.9	3.6	0.277
4-4510	4-5270	0.571	165.7	2.9	-1.43	1.303	115.3	0.766	3.368	300.7	525.7	0.789	---	1.83	0.271	126.2	42.9	3.6	0.266
4-4510	4-5290	0.569	165.8	3.0	-1.36	1.301	115.3	0.762	3.311	300.5	527.1	0.789	---	1.79	0.262	123.4	41.7	3.6	0.257
4-4510	4-5310	0.568	166.0	3.1	-1.30	1.300	115.3	0.758	3.263	300.3	528.5	0.788	---	1.74	0.253	120.6	40.5	3.5	0.249
4-4510	4-5330	0.568	166.3	3.1	-1.24	1.298	115.4	0.756	3.222	300.1	529.8	0.787	---	1.70	0.246	117.7	39.3	3.5	0.242
4-4510	4-5350	0.568	166.5	3.1	-1.18	1.297	115.5	0.754	3.187	299.8	531.0	0.785	---	1.67	0.240	114.8	38.0	3.4	0.235

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4510	4-5370	0.569	166.8	3.2	-1.12	1.296	115.6	0.752	3.157	299.4	532.2	0.783	---	1.63	0.235	111.8	36.6	3.4	0.230
4-4510	4-5390	0.571	167.1	3.2	-1.07	1.295	115.7	0.751	3.133	299.0	533.4	0.781	---	1.60	0.230	108.9	35.3	3.3	0.225
4-4510	4-5410	0.573	167.4	3.2	-1.02	1.294	115.9	0.750	3.112	298.6	534.5	0.778	---	1.57	0.226	105.9	33.9	3.3	0.221
4-4510	4-5430	0.575	167.8	3.1	-0.96	1.293	116.0	0.749	3.094	298.1	535.6	0.775	---	1.54	0.223	102.9	32.6	3.2	0.218
4-4510	4-5450	0.578	168.1	3.1	-0.92	1.293	116.2	0.749	3.080	297.6	536.6	0.772	---	1.51	0.220	100.0	31.2	3.1	0.215
4-4510	4-5470	0.582	168.5	3.1	-0.87	1.292	116.5	0.750	3.068	297.0	537.6	0.768	---	1.49	0.218	97.2	30.0	3.0	0.214
4-4510	4-5490	0.586	168.9	3.0	-0.82	1.292	116.7	0.750	3.058	296.4	538.6	0.764	---	1.47	0.217	94.3	28.7	3.0	0.213
4-4510	4-5510	0.590	169.4	2.9	-0.78	1.292	117.0	0.751	3.051	295.8	539.5	0.759	---	1.45	0.216	91.6	27.5	2.9	0.212
4-4510	4-5530	0.595	169.8	2.8	-0.73	1.291	117.3	0.752	3.046	295.1	540.4	0.754	5.337	1.43	0.215	88.9	26.5	2.8	0.212
4-4510	4-5550	0.601	170.3	2.7	-0.69	1.291	117.6	0.754	3.042	294.4	541.2	0.749	5.334	1.41	0.216	86.2	25.4	2.7	0.213
4-4510	4-5570	0.606	170.8	2.6	-0.65	1.291	118.0	0.755	3.039	293.6	542.1	0.744	5.335	1.40	0.216	83.7	24.5	2.7	0.214
4-4510	4-5590	0.612	171.3	2.5	-0.61	1.291	118.3	0.757	3.038	292.8	542.9	0.738	5.338	1.38	0.217	81.2	23.7	2.6	0.215
4-4510	4-5610	0.619	171.8	2.4	-0.57	1.291	118.7	0.759	3.038	292.0	543.6	0.732	5.345	1.37	0.218	78.8	23.0	2.5	0.217
4-4510	4-5630	0.626	172.4	2.3	-0.53	1.291	119.1	0.761	3.039	291.1	544.4	0.725	5.354	1.36	0.219	76.5	22.4	2.5	0.219
4-4510	4-5650	0.633	172.9	2.1	-0.49	1.291	119.5	0.764	3.042	290.2	545.1	0.718	5.365	1.35	0.221	74.3	21.9	2.4	0.221
4-4510	4-5670	0.640	173.5	2.0	-0.45	1.291	120.0	0.766	3.045	289.3	545.7	0.711	5.378	1.34	0.223	72.1	21.5	2.4	0.224
4-4510	4-5690	0.648	174.1	1.8	-0.41	1.291	120.4	0.769	3.049	288.4	546.4	0.704	5.394	1.33	0.225	70.1	21.2	2.3	0.227
4-4510	4-5710	0.657	174.6	1.6	-0.37	1.292	120.9	0.772	3.053	287.4	547.0	0.696	5.411	1.32	0.227	68.1	21.0	2.3	0.231
4-4510	4-5730	0.665	175.2	1.5	-0.34	1.292	121.4	0.775	3.059	286.3	547.6	0.688	5.430	1.31	0.229	66.2	20.9	2.3	0.234
4-4510	4-5750	0.674	175.8	1.3	-0.30	1.292	121.9	0.778	3.065	285.3	548.1	0.679	5.450	1.31	0.232	64.3	20.9	2.2	0.238
4-4510	4-5770	0.683	176.4	1.1	-0.26	1.292	122.5	0.782	3.071	284.2	548.7	0.670	5.472	1.30	0.234	62.6	20.9	2.2	0.242
4-4510	4-5790	0.693	177.1	0.9	-0.22	1.293	123.0	0.785	3.078	283.1	549.2	0.661	5.496	1.30	0.237	60.9	21.1	2.2	0.246
4-4510	4-5810	0.703	177.7	0.7	-0.19	1.293	123.6	0.789	3.086	281.9	549.7	0.651	5.520	1.30	0.240	59.2	21.4	2.2	0.250
4-4510	4-5830	0.713	178.3	0.5	-0.15	1.293	124.2	0.793	3.094	280.7	550.1	0.641	5.546	1.30	0.242	57.6	21.7	2.2	0.255
4-4510	4-5850	0.724	179.0	0.3	-0.11	1.294	124.8	0.797	3.103	279.5	550.5	0.631	5.574	1.30	0.245	56.1	22.1	2.2	0.259
4-4510	4-5870	0.735	179.6	0.0	-0.07	1.294	125.4	0.801	3.111	278.3	550.9	0.621	5.602	1.30	0.248	54.6	22.6	2.2	0.264
4-4510	4-5890	0.746	180.3	-0.2	-0.04	1.294	126.0	0.805	3.121	277.0	551.3	0.610	5.632	1.30	0.251	53.2	23.2	2.2	0.269
4-4510	4-5910	0.758	180.9	-0.4	0.00	1.295	126.7	0.809	3.130	275.7	551.7	0.599	5.662	1.31	0.254	51.8	23.8	2.2	0.274
4-4510	4-5930	0.770	181.6	-0.6	0.04	1.295	127.4	0.813	3.140	274.4	552.0	0.587	5.694	1.31	0.257	50.4	24.5	2.2	0.279
4-4510	4-5950	0.782	182.3	-0.9	0.08	1.296	128.1	0.817	3.151	273.0	552.3	0.575	5.726	1.32	0.260	49.1	25.3	2.2	0.284
4-4510	4-5970	0.795	183.0	-1.1	0.12	1.296	128.8	0.822	3.161	271.6	552.6	0.563	5.760	1.32	0.263	47.8	26.1	2.2	0.290
4-4510	4-5990	0.808	183.7	-1.4	0.16	1.296	129.5	0.827	3.172	270.2	552.8	0.550	5.794	1.33	0.267	46.6	27.0	2.3	0.295
4-4510	4-6010	0.821	184.4	-1.6	0.20	1.297	130.2	0.831	3.183	268.7	553.1	0.537	5.829	1.34	0.270	45.4	27.9	2.3	0.300
4-4510	4-6030	0.835	185.1	-1.9	0.24	1.297	131.0	0.836	3.195	267.3	553.3	0.524	5.865	1.35	0.273	44.2	28.9	2.3	0.306
4-4510	4-6050	0.849	185.8	-2.2	0.28	1.298	131.8	0.841	3.206	265.8	553.5	0.511	5.902	1.36	0.276	43.0	29.9	2.4	0.312
4-4510	4-6070	0.863	186.5	-2.4	0.32	1.298	132.6	0.846	3.218	264.2	553.6	0.497	5.939	1.38	0.279	41.8	31.0	2.4	0.317
4-4510	4-6090	0.878	187.2	-2.7	0.37	1.299	133.4	0.851	3.230	262.7	553.7	0.483	5.978	1.39	0.282	40.7	32.1	2.4	0.323
4-4510	4-6110	0.893	187.9	-3.0	0.41	1.299	134.3	0.856	3.242	261.1	553.8	0.468	6.017	1.41	0.285	39.6	33.2	2.5	0.329
4-4520	4-4960	0.719	170.3	-7.7	-6.25	1.421	118.6	1.01453	562	303.2	494.8	0.771	---	6.47	0.621	158.4	50.8	4.8	0.613
4-4520	4-4980	0.690	170.1	-6.5	-5.50	1.405	117.7	0.97836	112	303.9	497.1	0.781	---	5.73	0.583	156.9	51.0	4.7	0.574
4-4520	4-5000	0.664	169.8	-5.6	-4.90	1.391	116.9	0.94714	828	304.6	499.3	0.790	---	5.15	0.548	155.4	51.2	4.6	0.539
4-4520	4-5020	0.641	169.6	-4.8	-4.41	1.378	116.1	0.919	9.838	305.3	501.5	0.797	---	4.68	0.516	153.8	51.3	4.5	0.507
4-4520	4-5040	0.621	169.3	-4.1	-4.00	1.368	115.4	0.894	7.623	305.9	503.6	0.804	---	4.29	0.486	152.2	51.3	4.4	0.477
4-4520	4-5060	0.604	169.1	-3.5	-3.66	1.358	114.8	0.873	6.378	306.5	505.7	0.810	---	3.96	0.459	150.4	51.2	4.4	0.450
4-4520	4-5080	0.589	168.9	-2.9	-3.36	1.350	114.3	0.854	5.586	307.0	507.7	0.816	---	3.69	0.435	148.6	51.1	4.3	0.425
4-4520	4-5100	0.575	168.8	-2.4	-3.10	1.343	113.8	0.837	5.040	307.4	509.7	0.821	---	3.44	0.412	146.7	50.8	4.3	0.402
4-4520	4-5120	0.564	168.6	-1.9	-2.87	1.337	113.4	0.822	4.644	307.8	511.6	0.825	---	3.24	0.391	144.7	50.5	4.3	0.381
4-4520	4-5140	0.553	168.5	-1.5	-2.67	1.331	113.0	0.809	4.345	308.2	513.4	0.828	---	3.05	0.372	142.7	50.1	4.3	0.362
4-4520	4-5160	0.545	168.4	-1.1	-2.49	1.326	112.7	0.798	4.114	308.4	515.2	0.831	---	2.89	0.354	140.5	49.7	4.2	0.344
4-4520	4-5180	0.537	168.4	-0.8	-2.33	1.322	112.4	0.788	3.930	308.6	517.0	0.834	---	2.75	0.338	138.3	49.1	4.2	0.327
4-4520	4-5200	0.531	168.4	-0.5	-2.18	1.318	112.2	0.779	3.782	308.8	518.7	0.836	---	2.62	0.324	135.9	48.4	4.2	0.312
4-4520	4-5220	0.525	168.4	-0.2	-2.05	1.315	112.0	0.771	3.661	308.9	520.3	0.837	---	2.50	0.310	133.5	47.7	4.2	0.298
4-4520	4-5240	0.521	168.4	0.1	-1.92	1.312	111.9	0.764	3.560	309.0	521.9	0.839	---	2.40	0.298	131.0	46.8	4.1	0.286
4-4520	4-5260	0.517	168.6	0.3	-1.81	1.309	111.8	0.759	3.477	308.9	523.4	0.839	---	2.30	0.287	128.5	45.9	4.1	0.274
4-4520	4-5280	0.514	168.7	0.5	-1.71	1.307	111.7	0.754	3.407	308.9	524.9	0.839	---	2.22	0.277	125.8	44.9	4.1	0.264
4-4520	4-5300	0.512	168.9	0.7	-1.61	1.305	111.7	0.749	3.348	308.8	526.3	0.839	---	2.14	0.268	123.1	43.8	4.0	0.254
4-4520	4-5320	0.511	169.1	0.8	-1.52	1.303	111.7	0.746	3.298	308.6	527.7	0.839	---	2.07	0.260	120.4	42.7	4.0	0.246
4-4520	4-5340	0.510	169.3	0.9	-1.43	1.302	111.7	0.743	3.256	308.4	529.0	0.838	---	2.00	0.253	117.6	41.4	3.9	0.238
4-4520	4-5360	0.510	169.6	1.0	-1.35	1.300	111.8	0.740	3.220	308.1	530.3	0.837	---	1.94	0.247	114.8	40.2	3.9	0.232
4-4520	4-5380	0.511	169.9	1.1	-1.27	1.299	111.9	0.738	3.189	307.8	531.5	0.835	---	1.89	0.242	112.0	38.9	3.8	0.226
4-4520	4-5400	0.512	170.2	1.1	-1.20	1.298	112.0	0.737	3.164	307.5	532.7	0.833	---	1.83	0.237	109.1	37.5	3.7	0.221
4-4520	4-5420	0.514	170.6	1.2	-1.13	1.297	112.1	0.736	3.142	307.1	533.9	0.831	---	1.79	0.233	106.3	36.2	3.7	0.217
4-4520	4-5440	0.516	171.0	1.2	-1.07	1.297	112.3	0.735	3.124	306.6	535.0	0.828	---	1.74	0.230	103.5	34.8	3.6	0.213
4-4520	4-5460	0.518	171.4	1.2	-1.01	1.296	112.5	0.734	3.109	306.1	536.1	0.826	---	1.70	0.227	100.7	33.5	3.5	0.210
4-4520	4-5480	0.521	171.8	1.2	-0.95	1.296	112.7	0.734	3.096	305.6	537.1	0.822	---	1.66	0.225	97.9	32.2	3.4	0.208
4-4520	4-5500	0.525	172.3	1.1	-0.89	1.295	112.9	0.735	3.086	305.0	538.1	0.819	---	1.63	0.224	95.2	30.9	3.3	0.207
4-4520	4-5520	0.529	172.8	1.1	-0.84	1.295	113.2	0.735	3.078	304.4	539.1	0.815	---	1.60	0.223	92.6	29.7	3.3	0.206
4-4520	4-5540	0.533	173.3	1.0	-0.78	1.295	113.5	0.736	3.072	303.8	540.0	0.811	5.333	1.57	0.222	90.0	28.6	3.2	0.206
4-4520	4-5560	0.538	173.8	0.9	-0.73	1.294	113.8	0.737	3.068	303.1	540.9	0.807	5.329	1.54	0.222	87.5	27.5	3.1	0.206
4-4520	4-5580	0.543	174.3	0.8	-0.68	1.294	114.1	0.738	3.065	302.4	541.8	0.802	5.328	1.51	0.223	85.1	26.6	3.0	0.206
4-4520	4-5600	0.548	174.9	0.7	-0.63	1.294	114.4	0.740	3.064	301.6	542.6	0.797	5.330	1.49	0.223	82.7	25.7	2.9	0.207
4-4520	4-5620	0.554	175.4	0.6	-0.59	1.294	114.8	0.742	3.063	300.8	543.4	0.792	5.335	1.47	0.224	80.4	24.9	2.8	0.209
4-4520	4-5640	0.560	176.0	0.5	-0.54	1.294	115.1	0.743	3.064	300.0	544.2	0.786	5.342	1.45	0.226	78.2	24.3	2.8	0.211
4-4520	4-5660	0.567	176.6	0.3	-0.50	1.294	115.5	0.746	3.066	299.1	544.9	0.780	5.352	1.43	0.227	76.1	23.7	2.7	0.213
4-4520	4-5680	0.574	177.2	0.2	-0.45	1.294	115.9	0.748	3.069	298.2	545.6	0.774	5.363	1.41	0.229	74.0	23.2	2.7	0.215
4-4520	4-5700	0.581	177.9	0.0	-0.41	1.295	116.4	0.750	3.072	297.3	546.3	0.767	5.377	1.40	0.231	72.1	22.9	2.6	0.218
4-4520	4-5720	0.588	178.5	-0.1	-0.37	1.295	116.8	0.753	3.077	296.4	547.0	0.761	5.393	1.38	0.233	70.2	22.6	2.5	0.221
4-4520	4-5740	0.596	179.1	-0.3	-0.33	1.295	117.3	0.755	3.082	295.4	547.6	0.753	5.410	1.37	0.235	68.3	22.4	2.5	0.224
4-4520	4-5760	0.604	179.8	-0.5	-0.29	1.295	117.8	0.758	3.087	294.4	548.2	0.746	5.429	1.36	0.237	66.6	22.3	2.5	0.228
4-4520	4-5780	0.613	180.4	-0.7	-0.25	1.296	118.3	0.761	3.094	293.3	548.8	0.738	5.449	1.35	0.240	64.9	22.4	2.4	0.231

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4550	4-5410	0.363	169.7	-7.2	-3.02	1.308	100.6	0.708	3.250	334.3	530.4	0.950	---	3.89	0.254	111.2	43.2	6.4	0.217
4-4550	4-5430	0.362	170.5	-6.2	-2.67	1.307	100.7	0.706	3.224	334.0	531.7	0.949	---	3.56	0.250	108.6	41.9	6.1	0.211
4-4550	4-5450	0.362	171.3	-5.4	-2.37	1.306	100.9	0.704	3.203	333.6	532.9	0.948	---	3.28	0.247	106.0	40.6	5.8	0.207
4-4550	4-5470	0.362	172.1	-4.8	-2.12	1.305	101.0	0.703	3.184	333.2	534.1	0.947	---	3.05	0.244	103.5	39.3	5.5	0.203
4-4550	4-5490	0.363	172.9	-4.3	-1.90	1.305	101.2	0.702	3.169	332.8	535.2	0.946	---	2.84	0.242	101.0	38.0	5.3	0.200
4-4550	4-5510	0.365	173.8	-3.9	-1.71	1.304	101.4	0.701	3.156	332.3	536.3	0.944	---	2.67	0.240	98.5	36.7	5.1	0.197
4-4550	4-5530	0.366	174.6	-3.5	-1.54	1.304	101.6	0.700	3.146	331.8	537.4	0.943	---	2.51	0.239	96.1	35.5	4.8	0.195
4-4550	4-5550	0.368	175.5	-3.3	-1.39	1.304	101.8	0.700	3.138	331.2	538.4	0.941	---	2.38	0.238	93.7	34.3	4.6	0.193
4-4550	4-5570	0.371	176.4	-3.1	-1.25	1.303	102.0	0.700	3.132	330.7	539.4	0.939	---	2.26	0.237	91.4	33.1	4.5	0.193
4-4550	4-5590	0.374	177.3	-3.0	-1.13	1.303	102.3	0.701	3.127	330.0	540.4	0.936	5.318	2.15	0.237	89.2	32.1	4.3	0.192
4-4550	4-5610	0.377	178.2	-3.0	-1.02	1.303	102.6	0.701	3.124	329.4	541.3	0.934	5.314	2.05	0.238	87.0	31.1	4.1	0.192
4-4550	4-5630	0.380	179.1	-2.9	-0.91	1.303	102.9	0.702	3.123	328.7	542.2	0.931	5.314	1.97	0.238	84.9	30.1	4.0	0.192
4-4550	4-5660	0.384	180.0	-3.0	-0.82	1.303	103.2	0.703	3.122	327.9	543.0	0.929	5.316	1.89	0.239	82.9	29.3	3.8	0.193
4-4550	4-5670	0.388	181.0	-3.0	-0.73	1.303	103.5	0.704	3.123	327.2	543.9	0.926	5.320	1.82	0.240	80.9	28.6	3.7	0.194
4-4550	4-5690	0.393	181.9	-3.1	-0.65	1.303	103.8	0.705	3.125	326.4	544.7	0.922	5.327	1.75	0.242	79.1	27.9	3.6	0.196
4-4550	4-5710	0.397	182.9	-3.2	-0.57	1.303	104.2	0.706	3.127	325.5	545.5	0.919	5.336	1.69	0.243	77.2	27.4	3.4	0.198
4-4550	4-5730	0.402	183.9	-3.4	-0.50	1.303	104.5	0.708	3.131	324.7	546.2	0.915	5.346	1.64	0.245	75.5	26.9	3.3	0.200
4-4550	4-5750	0.408	184.8	-3.6	-0.43	1.304	104.9	0.709	3.135	323.8	547.0	0.912	5.358	1.59	0.247	73.8	26.5	3.2	0.202
4-4550	4-5770	0.413	185.8	-3.7	-0.37	1.304	105.3	0.711	3.140	322.9	547.7	0.908	5.372	1.54	0.249	72.2	26.3	3.1	0.204
4-4550	4-5790	0.419	186.8	-4.0	-0.31	1.304	105.7	0.713	3.146	321.9	548.3	0.903	5.388	1.50	0.251	70.7	26.1	3.1	0.207
4-4550	4-5810	0.425	187.8	-4.2	-0.25	1.304	106.1	0.715	3.152	321.0	549.0	0.899	5.405	1.46	0.253	69.2	26.0	3.0	0.210
4-4550	4-5830	0.432	188.8	-4.4	-0.20	1.304	106.6	0.717	3.158	320.0	549.6	0.894	5.423	1.42	0.256	67.7	26.0	2.9	0.213
4-4550	4-5850	0.439	189.8	-4.7	-0.14	1.305	107.0	0.719	3.166	318.9	550.3	0.889	5.442	1.39	0.258	66.3	26.1	2.9	0.216
4-4550	4-5870	0.446	190.8	-4.9	-0.09	1.305	107.5	0.721	3.173	317.9	550.8	0.884	5.463	1.36	0.261	65.0	26.3	2.8	0.219
4-4550	4-5890	0.453	191.8	-5.2	-0.05	1.305	108.0	0.724	3.181	316.8	551.4	0.878	5.484	1.33	0.263	63.7	26.6	2.8	0.223
4-4550	4-5910	0.460	192.8	-5.5	0.00	1.306	108.5	0.726	3.190	315.7	552.0	0.873	5.507	1.31	0.266	62.5	26.9	2.8	0.226
4-4550	4-5930	0.468	193.8	-5.8	0.05	1.306	109.0	0.729	3.199	314.6	552.5	0.866	5.531	1.28	0.268	61.3	27.3	2.7	0.230
4-4550	4-5950	0.477	194.8	-6.1	0.09	1.306	109.5	0.732	3.208	313.4	553.0	0.860	5.556	1.26	0.271	60.1	27.7	2.7	0.233
4-4550	4-5970	0.485	195.8	-6.4	0.13	1.307	110.0	0.735	3.217	312.2	553.5	0.853	5.581	1.24	0.274	59.0	28.3	2.7	0.237
4-4550	4-5990	0.494	196.8	-6.7	0.17	1.307	110.6	0.738	3.227	311.0	554.0	0.847	5.608	1.22	0.276	57.9	28.9	2.7	0.241
4-4550	4-6010	0.503	197.7	-7.0	0.21	1.307	111.1	0.741	3.237	309.8	554.4	0.839	5.635	1.20	0.279	56.9	29.5	2.7	0.245
4-4550	4-6030	0.512	198.7	-7.3	0.25	1.308	111.7	0.744	3.248	308.5	554.9	0.832	5.663	1.19	0.282	55.8	30.2	2.7	0.249
4-4550	4-6050	0.522	199.7	-7.6	0.29	1.308	112.3	0.747	3.258	307.3	555.3	0.824	5.692	1.17	0.285	54.8	31.0	2.7	0.253
4-4550	4-6070	0.532	200.7	-7.9	0.32	1.309	112.9	0.750	3.269	306.0	555.7	0.816	5.722	1.16	0.287	53.9	31.8	2.7	0.258
4-4550	4-6090	0.542	201.7	-8.2	0.36	1.309	113.5	0.754	3.280	304.6	556.0	0.807	5.753	1.15	0.290	52.9	32.7	2.7	0.262
4-4550	4-6110	0.553	202.6	-8.6	0.39	1.309	114.1	0.757	3.291	303.3	556.4	0.798	5.784	1.13	0.293	52.0	33.6	2.7	0.266
4-4550	4-6130	0.564	203.6	-8.9	0.43	1.310	114.7	0.761	3.303	301.9	556.7	0.789	5.816	1.12	0.296	51.1	34.5	2.7	0.271
4-4550	4-6150	0.575	204.6	-9.2	0.46	1.310	115.4	0.765	3.314	300.5	557.0	0.780	5.849	1.12	0.298	50.2	35.5	2.7	0.275
4-4560	4-4920	0.607	188.4	2.8	2.45	1.516	106.2	1.254	-3.625	331.0	479.6	0.920	---	-1.81	0.802	160.8	54.6	1.9	0.776
4-4560	4-4940	0.569	187.3	3.8	2.54	1.488	105.0	1.176	-5.255	332.2	482.4	0.927	---	-1.89	0.747	159.6	55.0	1.8	0.721
4-4560	4-4960	0.535	186.3	4.9	2.65	1.463	104.0	1.111	-8.434	333.4	485.1	0.934	---	-1.98	0.697	158.3	55.3	1.8	0.671
4-4560	4-4980	0.507	185.3	6.1	2.76	1.443	103.0	1.055	17.234	334.6	487.7	0.940	---	-2.09	0.652	157.0	55.5	1.7	0.627
4-4560	4-5000	0.482	184.3	7.3	2.89	1.425	102.2	1.006	48.839	335.7	490.4	0.945	---	-2.20	0.612	155.6	55.7	1.6	0.586
4-4560	4-5020	0.460	183.4	8.5	3.04	1.409	101.4	0.965	26.987	336.8	492.9	0.949	---	-2.33	0.575	154.1	55.9	1.5	0.549
4-4560	4-5040	0.442	182.6	9.8	3.20	1.396	100.7	0.929	13.405	337.8	495.5	0.953	---	-2.48	0.541	152.6	56.0	1.3	0.516
4-4560	4-5060	0.426	181.8	11.1	3.39	1.384	100.1	0.898	9.353	338.7	497.9	0.957	---	-2.65	0.511	151.0	56.0	1.2	0.485
4-4560	4-5080	0.412	181.1	12.5	3.60	1.374	99.5	0.871	7.417	339.6	500.3	0.960	---	-2.85	0.483	149.3	56.0	1.0	0.457
4-4560	4-5100	0.400	180.6	14.0	3.85	1.365	99.0	0.847	6.288	340.4	502.6	0.962	---	-3.09	0.457	147.5	55.9	0.8	0.431
4-4560	4-5120	0.391	180.2	15.6	4.14	1.357	98.5	0.826	5.554	341.1	504.9	0.965	---	-3.37	0.434	145.7	55.7	0.5	0.407
4-4560	4-5140	0.383	180.0	17.3	4.49	1.351	98.2	0.808	5.041	341.7	507.0	0.967	---	-3.71	0.412	143.8	55.5	0.2	0.385
4-4560	4-5160	0.377	180.1	19.3	4.93	1.345	97.8	0.792	4.665	342.3	509.1	0.968	---	-4.13	0.393	141.8	55.2	-0.2	0.365
4-4560	4-5180	0.373	180.4	21.5	5.47	1.340	97.5	0.779	4.379	342.8	511.1	0.969	---	-4.66	0.375	139.8	54.8	-0.8	0.347
4-4560	4-5200	0.371	181.2	24.2	6.18	1.335	97.3	0.766	4.156	343.2	513.1	0.971	---	-5.36	0.359	137.6	54.3	-1.4	0.330
4-4560	4-5220	0.373	182.6	27.5	7.13	1.331	97.0	0.756	3.978	343.6	515.0	0.971	---	-6.30	0.344	135.4	53.7	-2.4	0.315
4-4560	4-5240	0.380	184.9	31.7	8.49	1.327	96.9	0.746	3.835	343.9	516.8	0.972	---	-7.64	0.330	133.1	53.0	-3.7	0.301
4-4560	4-5260	0.398	189.0	37.5	10.59	1.324	96.7	0.738	3.717	344.1	518.6	0.973	---	-9.73	0.318	130.8	52.2	-5.7	0.290
4-4560	4-5280	0.438	197.2	45.6	14.25	1.322	96.6	0.731	3.619	344.3	520.3	0.973	---	-13.38	0.307	128.4	51.0	-9.0	0.282
4-4560	4-5300	0.551	217.6	55.9	22.15	1.319	96.5	0.725	3.538	344.5	521.9	0.974	---	-21.26	0.297	125.9	49.0	-15.4	0.286
4-4560	4-5320	0.989	273.0	55.6	47.90	1.317	96.4	0.719	3.470	344.7	523.5	0.974	---	-47.01	0.287	123.4	41.4	-27.5	0.357
4-4560	4-5340	1.089	59.3	-78.6	-53.76	1.315	96.7	0.715	3.412	343.8	525.0	0.972	---	54.67	0.279	121.0	35.6	32.8	0.379
4-4560	4-5360	0.547	140.5	-55.1	-22.11	1.314	96.6	0.711	3.363	344.0	526.4	0.973	---	23.03	0.272	118.4	44.2	22.8	0.266
4-4560	4-5380	0.416	152.1	-37.8	-13.11	1.312	96.6	0.707	3.322	343.9	527.8	0.973	---	14.05	0.266	115.8	45.0	16.3	0.239
4-4560	4-5400	0.371	157.4	-27.2	-9.10	1.311	96.7	0.704	3.287	343.8	529.2	0.972	---	10.05	0.261	113.2	44.4	12.8	0.226
4-4560	4-5420	0.350	160.8	-20.4	-6.85	1.310	96.8	0.702	3.257	343.5	530.5	0.972	---	7.82	0.256	110.6	43.5	10.7	0.217
4-4560	4-5440	0.340	163.2	-15.8	-5.42	1.309	96.9	0.699	3.232	343.2	531.7	0.972	---	6.39	0.252	108.1	42.3	9.3	0.211
4-4560	4-5460	0.335	165.1	-12.5	-4.42	1.308	97.0	0.698	3.210	342.9	533.0	0.971	---	5.41	0.249	105.5	41.1	8.3	0.206
4-4560	4-5480	0.332	166.7	-10.1	-3.69	1.308	97.2	0.696	3.193	342.5	534.1	0.970	---	4.69	0.246	103.0	39.9	7.6	0.201
4-4560	4-5500	0.330	168.2	-8.4	-3.12	1.307	97.3	0.695	3.178	342.1	535.3	0.969	---	4.14	0.244	100.6	38.6	6.9	0.198
4-4560	4-5520	0.330	169.5	-7.0	-2.68	1.307	97.5	0.694	3.166	341.6	536.4	0.968	---	3.70	0.242	98.2	37.4	6.4	0.195
4-4560	4-5540	0.330	170.8	-6.0	-2.32	1.306	97.7	0.694	3.156	341.1	537.4	0.967	---	3.35	0.241	95.8	36.2	6.0	0.193
4-4560	4-5560	0.331	172.0	-5.2	-2.01	1.306	97.9	0.693	3.149	340.5	538.4	0.966	---	3.07	0.240	93.5	35.0	5.6	0.191
4-4560	4-5580	0.332	173.2	-4.5	-1.76	1.306	98.2	0.693	3.143	340.0	539.4	0.964	---	2.83	0.240	91.3	33.9	5.3	0.190
4-4560	4-5600	0.334	174.4	-4.1	-1.54	1.305	98.4	0.693	3.139	339.3	540.4	0.963	5.315	2.62	0.240	89.1	32.8	5.0	0.190
4-4560	4-5620	0.336	175.6	-3.8	-1.35	1.305	98.7	0.694	3.136	338.7	541.3	0.961	5.311	2.45	0.241	87.0	31.8	4.7	0.189
4-4560	4-5640	0.339	176.8	-3.6	-1.19	1.305	99.0	0.694	3.135	338.0	542.2	0.959	5.311	2.29	0.241	85.0	30.9	4.5	0.190
4-4560	4-5660	0.341	178.0	-3.4	-1.04	1.305	99.3	0.695	3.135	337.2	543.1	0.957	5.312	2.16	0.242	83.0	30.1	4.3	0.190
4-4560	4-5680	0.344	179.2	-3.4	-0.91	1.305	99.6	0.695	3.136	336.5	543.9	0.955	5.317	2.04	0.244	81.1	29.4	4.1	0.191
4-4560	4-5700	0.348	180.4	-3.4	-0.79	1.305	100.0	0.696	3.138	335.7	544.8	0.953	5.323	1.94	0.245	79.3	28.8	3.9	0.193
4-4560	4-5720	0.352	181.6	-3.4	-0.68	1.306	100.3	0.697	3.141	334.9	545.5	0.950	5.331	1.85	0.247	77.6	28.2	3.7	0.194
4-4560	4-5740	0.356	182.8	-3.5	-0.59	1.306	100.7	0.699	3.144	334.0	546.3	0.948	5.341	1.76	0.248	75.9	27.8	3.6	0.196

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4560	4-5760	0.360	184.0	-3.7	-0.50	1.306	101.0	0.700	3.149	333.1	547.0	0.945	5.353	1.69	0.250	74.3	27.4	3.5	0.198
4-4560	4-5780	0.364	185.2	-3.8	-0.42	1.306	101.4	0.701	3.154	332.2	547.8	0.942	5.366	1.62	0.252	72.8	27.2	3.4	0.200
4-4560	4-5800	0.369	186.4	-4.0	-0.34	1.306	101.8	0.703	3.160	331.3	548.5	0.939	5.381	1.56	0.254	71.3	27.0	3.2	0.203
4-4560	4-5820	0.375	187.6	-4.3	-0.27	1.307	102.2	0.705	3.166	330.3	549.1	0.935	5.397	1.50	0.257	69.8	26.9	3.2	0.206
4-4560	4-5840	0.380	188.8	-4.5	-0.20	1.307	102.6	0.706	3.173	329.3	549.8	0.932	5.415	1.45	0.259	68.5	26.9	3.1	0.208
4-4560	4-5860	0.386	190.0	-4.8	-0.14	1.307	103.1	0.708	3.180	328.3	550.4	0.928	5.433	1.41	0.261	67.1	27.0	3.0	0.211
4-4560	4-5880	0.392	191.2	-5.1	-0.08	1.307	103.5	0.710	3.188	327.3	551.0	0.924	5.453	1.36	0.264	65.9	27.2	2.9	0.214
4-4560	4-5900	0.398	192.4	-5.4	-0.03	1.308	104.0	0.712	3.197	326.2	551.6	0.919	5.474	1.32	0.267	64.6	27.4	2.9	0.217
4-4560	4-5920	0.405	193.6	-5.7	0.03	1.308	104.4	0.715	3.205	325.1	552.2	0.915	5.496	1.29	0.269	63.4	27.7	2.8	0.221
4-4560	4-5940	0.411	194.8	-6.1	0.08	1.308	104.9	0.717	3.214	324.0	552.7	0.910	5.518	1.25	0.272	62.3	28.1	2.8	0.224
4-4560	4-5960	0.419	195.9	-6.4	0.12	1.309	105.4	0.719	3.223	322.9	553.3	0.905	5.542	1.22	0.274	61.2	28.6	2.8	0.228
4-4560	4-5980	0.426	197.1	-6.7	0.17	1.309	105.9	0.722	3.233	321.7	553.8	0.900	5.567	1.19	0.277	60.1	29.1	2.7	0.231
4-4560	4-6000	0.434	198.3	-7.1	0.21	1.309	106.5	0.724	3.243	320.5	554.3	0.894	5.592	1.17	0.280	59.1	29.7	2.7	0.235
4-4560	4-6020	0.442	199.4	-7.4	0.25	1.310	107.0	0.727	3.253	319.3	554.7	0.888	5.618	1.14	0.282	58.1	30.3	2.7	0.239
4-4560	4-6040	0.450	200.6	-7.8	0.29	1.310	107.5	0.730	3.264	318.1	555.2	0.882	5.645	1.12	0.285	57.1	31.0	2.7	0.242
4-4560	4-6060	0.459	201.7	-8.1	0.33	1.311	108.1	0.733	3.274	316.8	556.6	0.876	5.673	1.10	0.288	56.2	31.8	2.7	0.246
4-4560	4-6080	0.468	202.9	-8.6	0.37	1.311	108.7	0.735	3.285	315.6	556.0	0.869	5.701	1.08	0.290	55.3	32.6	2.7	0.250
4-4560	4-6100	0.477	204.0	-8.9	0.41	1.311	109.2	0.739	3.296	314.3	556.4	0.862	5.731	1.07	0.293	54.4	33.4	2.7	0.254
4-4560	4-6120	0.487	205.1	-9.2	0.44	1.312	109.8	0.742	3.307	312.9	556.8	0.855	5.760	1.05	0.296	53.5	34.3	2.7	0.258
4-4560	4-6140	0.496	206.2	-9.6	0.48	1.312	110.4	0.745	3.319	311.6	557.2	0.847	5.791	1.03	0.298	52.7	35.2	2.7	0.262
4-4560	4-6160	0.506	207.3	-9.9	0.51	1.312	111.1	0.748	3.331	310.2	557.5	0.839	5.822	1.02	0.301	51.8	36.2	2.7	0.267
4-4570	4-4890	0.639	189.5	0.8	1.86	1.583	103.5	1.451-2.087		337.2	473.4	0.941	---	-1.11	0.920	162.4	54.8	2.2	0.890
4-4570	4-4910	0.591	188.1	1.8	1.90	1.544	102.3	1.339-2.794		338.5	476.3	0.948	---	-1.14	0.851	161.3	55.2	2.1	0.822
4-4570	4-4930	0.550	186.7	2.8	1.95	1.512	101.2	1.246-3.877		339.9	479.2	0.953	---	-1.18	0.790	160.1	55.5	2.1	0.762
4-4570	4-4950	0.516	185.2	3.9	2.00	1.484	100.1	1.168-5.718		341.2	482.0	0.959	---	-1.22	0.736	158.9	55.8	2.1	0.708
4-4570	4-4970	0.484	183.8	5.0	2.05	1.460	99.2	1.101-9.502		342.5	484.8	0.963	---	-1.26	0.687	157.7	56.1	2.0	0.659
4-4570	4-4990	0.459	182.3	6.2	2.11	1.440	98.3	1.04521.512		343.8	487.6	0.967	---	-1.30	0.643	156.3	56.3	2.0	0.616
4-4570	4-5010	0.437	180.9	7.3	2.17	1.423	97.5	0.99702.290		344.9	490.3	0.970	---	-1.35	0.603	154.9	56.4	2.0	0.576
4-4570	4-5030	0.417	179.5	8.4	2.23	1.408	96.8	0.95521.820		346.1	492.9	0.973	---	-1.41	0.567	153.5	56.6	1.9	0.540
4-4570	4-5060	0.401	178.1	9.5	2.30	1.394	96.2	0.92012.154		347.1	495.5	0.975	---	-1.47	0.534	151.9	56.6	1.8	0.507
4-4570	4-5070	0.387	176.9	10.6	2.38	1.383	95.6	0.889	8.799	348.1	498.0	0.977	---	-1.53	0.504	150.3	56.6	1.8	0.476
4-4570	4-5090	0.375	175.7	11.7	2.47	1.373	95.1	0.862	7.106	349.0	500.4	0.978	---	-1.61	0.477	148.6	56.6	1.7	0.449
4-4570	4-5110	0.365	174.7	12.8	2.56	1.365	94.6	0.839	6.090	349.9	502.8	0.980	---	-1.69	0.452	146.8	56.4	1.6	0.423
4-4570	4-5130	0.356	173.7	13.8	2.66	1.357	94.2	0.819	5.417	350.6	505.1	0.981	---	-1.78	0.429	145.0	56.2	1.5	0.400
4-4570	4-5150	0.349	172.9	14.8	2.78	1.351	93.9	0.801	4.942	351.3	507.3	0.982	---	-1.89	0.408	143.1	56.0	1.3	0.378
4-4570	4-5170	0.342	172.3	15.9	2.91	1.345	93.6	0.786	4.590	351.9	509.4	0.982	---	-2.01	0.389	141.0	55.6	1.2	0.358
4-4570	4-5190	0.337	171.7	16.9	3.06	1.340	93.3	0.773	4.322	352.4	511.4	0.983	---	-2.15	0.371	139.0	55.2	1.0	0.340
4-4570	4-5210	0.333	171.4	18.0	3.23	1.336	93.1	0.761	4.111	352.9	513.4	0.984	---	-2.31	0.355	136.8	54.7	0.8	0.323
4-4570	4-5230	0.329	171.2	19.1	3.43	1.332	92.9	0.750	3.943	353.2	515.3	0.984	---	-2.50	0.340	134.6	54.2	0.5	0.308
4-4570	4-5250	0.327	171.2	20.2	3.67	1.328	92.8	0.741	3.806	353.5	517.1	0.984	---	-2.73	0.327	132.3	53.5	0.2	0.294
4-4570	4-5270	0.325	171.4	21.5	3.96	1.325	92.7	0.734	3.694	353.7	518.9	0.984	---	-3.00	0.315	129.9	52.8	-0.1	0.281
4-4570	4-5290	0.324	171.8	23.0	4.31	1.323	92.6	0.727	3.601	353.9	520.6	0.984	---	-3.34	0.304	127.5	52.0	-0.6	0.269
4-4570	4-5310	0.324	172.5	24.8	4.75	1.320	92.5	0.721	3.523	354.0	522.2	0.985	---	-3.77	0.295	125.1	51.1	-1.1	0.258
4-4570	4-5330	0.326	173.6	26.9	5.32	1.318	92.5	0.715	3.458	354.0	523.7	0.985	---	-4.33	0.286	122.6	50.1	-1.9	0.248
4-4570	4-5350	0.329	175.2	29.6	6.09	1.316	92.5	0.711	3.403	353.9	525.3	0.985	---	-5.10	0.278	120.1	49.0	-2.8	0.240
4-4570	4-5370	0.337	177.6	33.2	7.20	1.315	92.5	0.707	3.356	353.8	526.7	0.984	---	-6.19	0.272	117.5	47.9	-4.1	0.233
4-4570	4-5390	0.352	181.5	38.3	8.91	1.314	92.6	0.703	3.317	353.7	528.1	0.984	---	-7.90	0.266	114.9	46.7	-6.2	0.227
4-4570	4-5410	0.385	188.8	46.0	11.92	1.312	92.7	0.700	3.284	353.5	529.4	0.984	---	-10.90	0.261	112.4	45.4	-9.5	0.225
4-4570	4-5430	0.478	207.1	57.5	18.54	1.311	92.8	0.698	3.255	353.3	530.7	0.984	---	-17.51	0.256	109.8	43.6	-16.1	0.232
4-4570	4-5450	0.884	272.4	62.1	42.31	1.311	92.8	0.696	3.231	353.2	532.0	0.984	---	-41.27	0.252	107.3	38.6	-29.5	0.305
4-4570	4-5470	0.967	73.5	-72.5	-47.08	1.310	93.2	0.694	3.211	352.1	533.2	0.983	---	48.14	0.249	104.8	33.4	34.7	0.330
4-4570	4-5490	0.465	140.0	-48.4	-17.74	1.309	93.3	0.692	3.195	352.0	534.4	0.983	---	18.81	0.247	102.4	38.3	22.3	0.224
4-4570	4-5510	0.365	152.0	-31.5	-10.28	1.309	93.4	0.691	3.181	351.6	535.5	0.982	---	11.36	0.245	99.9	38.2	15.3	0.205
4-4570	4-5530	0.332	157.6	-21.7	-7.02	1.308	93.6	0.690	3.170	351.1	536.6	0.982	---	8.11	0.244	97.6	37.3	11.8	0.197
4-4570	4-5550	0.319	161.3	-15.6	-5.20	1.308	93.8	0.690	3.161	350.6	537.6	0.981	---	6.30	0.243	95.3	36.3	9.7	0.193
4-4570	4-5570	0.313	164.0	-11.7	-4.04	1.308	94.1	0.689	3.154	350.0	538.6	0.981	---	5.15	0.242	93.0	35.2	8.3	0.191
4-4570	4-5590	0.310	166.2	-9.0	-3.23	1.307	94.3	0.689	3.149	349.4	539.6	0.980	---	4.35	0.242	90.9	34.2	7.3	0.189
4-4570	4-5610	0.309	168.2	-7.1	-2.64	1.307	94.6	0.689	3.145	348.8	540.6	0.979	5.312	3.77	0.242	88.7	33.2	6.5	0.189
4-4570	4-5630	0.309	170.0	-5.7	-2.18	1.307	94.8	0.689	3.143	348.1	541.5	0.978	5.309	3.33	0.243	86.7	32.2	5.9	0.188
4-4570	4-5650	0.310	171.7	-4.8	-1.82	1.307	95.1	0.689	3.143	347.4	542.4	0.977	5.308	2.98	0.244	84.7	31.4	5.4	0.188
4-4570	4-5670	0.311	173.3	-4.1	-1.53	1.307	95.4	0.689	3.143	346.7	543.2	0.976	5.310	2.70	0.245	82.9	30.6	5.0	0.189
4-4570	4-5690	0.313	174.9	-3.6	-1.29	1.307	95.7	0.690	3.145	345.9	544.1	0.975	5.315	2.47	0.246	81.0	29.9	4.7	0.190
4-4570	4-5710	0.315	176.4	-3.3	-1.08	1.307	96.1	0.691	3.147	345.1	544.9	0.973	5.321	2.27	0.247	79.3	29.3	4.4	0.191
4-4570	4-5730	0.317	177.9	-3.2	-0.91	1.307	96.4	0.692	3.150	344.3	545.7	0.972	5.329	2.11	0.249	77.6	28.8	4.2	0.192
4-4570	4-5750	0.320	179.4	-3.1	-0.76	1.308	96.8	0.692	3.155	343.4	546.5	0.970	5.339	1.97	0.251	76.0	28.4	3.9	0.194
4-4570	4-5770	0.323	180.9	-3.1	-0.62	1.308	97.1	0.694	3.159	342.6	547.2	0.968	5.351	1.85	0.253	74.4	28.1	3.7	0.196
4-4570	4-5790	0.326	182.4	-3.2	-0.50	1.308	97.5	0.695	3.165	341.7	547.9	0.966	5.364	1.74	0.255	73.0	27.8	3.6	0.198
4-4570	4-5810	0.330	183.9	-3.4	-0.40	1.308	97.9	0.696	3.171	340.7	548.6	0.964	5.378	1.64	0.257	71.5	27.7	3.4	0.200
4-4570	4-5830	0.333	185.3	-3.6	-0.30	1.309	98.3	0.697	3.178	339.8	549.3	0.962	5.394	1.56	0.259	70.2	27.6	3.3	0.203
4-4570	4-5850	0.338	186.8	-3.8	-0.22	1.309	98.7	0.699	3.185	338.8	549.9	0.959	5.411	1.49	0.262	68.8	27.6	3.2	0.205
4-4570	4-5870	0.342	188.3	-4.1	-0.14	1.309	99.1	0.700	3.193	337.8	550.6	0.957	5.429	1.42	0.264	67.6	27.7	3.1	0.208
4-4570	4-5890	0.347	189.7	-4.5	-0.07	1.309	99.6	0.702	3.201	336.7	551.2	0.954	5.448	1.36	0.267	66.4	27.9	3.0	0.211
4-4570	4-5910	0.352	191.2	-4.8	0.00	1.310	100.0	0.704	3.209	335.7	551.8	0.951	5.468	1.30	0.269	65.2	28.2	2.9	0.214
4-4570	4-5930	0.357	192.6	-5.2	0.06	1.310	100.5	0.706	3.218	334.6	552.4	0.947	5.489	1.26	0.272	64.1	28.5	2.9	0.217
4-4570	4-5950	0.363	194.0	-5.5	0.12	1.310	100.9	0.708	3.227	333.5	552.9	0.944	5.511	1.21	0.275	63.0	28.9	2.8	0.220
4-4570	4-5970	0.369	195.4	-5.9	0.17	1.311	101.4	0.710	3.237	332.4	553.5	0.940	5.533	1.17	0.277	61.9	29.3	2.8	0.224
4-4570	4-5990	0.375	196.9	-6.3	0.22	1.311	101.9	0.712	3.247	331.2	554.0	0.936	5.557	1.13	0.280	60.9	29.8	2.7	0.227
4-4570	4-6010	0.381	198.3	-6.8	0.27	1.311	102.4	0.714	3.257	330.1	554.5	0.932	5.581	1.10	0.282	59.9	30.4	2.7	0.230
4-4570	4-6030	0.388	199.6	-7.2	0.32	1.312	102.9	0.716	3.267	328.9	555.0	0.927	5.607	1.07	0.285	59.0	31.0	2.7	0.234
4-4570	4-6050	0.395	201.0	-7.6	0.36	1.312	103.5	0.718	3.278	327.6	555.5	0.923	5.633	1.04	0.288	58.1	31.7	2.7	0.237

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

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4590	4-5050	0.392	165.9	12.0	1.53	1.401	86.9	0.93014.108		6.4	134.5	---	---	-0.45	0.545	152.3	57.2	2.4	0.517
4-4590	4-5070	0.382	164.0	12.9	1.55	1.389	86.4	0.898	9.568	7.6	137.1	---	---	-0.46	0.513	150.7	57.1	2.3	0.485
4-4590	4-5090	0.374	162.3	13.7	1.57	1.378	86.0	0.869	7.494	8.6	139.7	---	---	-0.47	0.484	149.1	57.0	2.3	0.456
4-4590	4-5110	0.367	160.7	14.5	1.58	1.369	85.6	0.845	6.313	9.6	142.2	---	---	-0.48	0.458	147.3	56.9	2.3	0.430
4-4590	4-5130	0.361	159.3	15.2	1.60	1.361	85.3	0.824	5.555	10.5	144.6	---	---	-0.50	0.434	145.5	56.6	2.3	0.406
4-4590	4-5150	0.357	158.1	15.8	1.62	1.354	85.0	0.806	5.032	11.2	146.9	---	---	-0.51	0.412	143.6	56.3	2.2	0.383
4-4590	4-5170	0.352	157.0	16.3	1.64	1.348	84.7	0.790	4.650	11.9	149.1	---	---	-0.52	0.392	141.6	55.9	2.2	0.363
4-4590	4-5190	0.349	156.1	16.8	1.66	1.343	84.5	0.777	4.362	12.5	151.2	---	---	-0.54	0.376	139.5	55.5	2.1	0.344
4-4590	4-5210	0.346	155.4	17.2	1.68	1.338	84.4	0.765	4.139	13.0	153.2	---	---	-0.56	0.357	137.4	55.0	2.1	0.327
4-4590	4-5230	0.343	154.7	17.6	1.71	1.334	84.3	0.754	3.961	13.4	155.2	---	---	-0.57	0.342	135.1	54.4	2.0	0.311
4-4590	4-5250	0.340	154.2	17.9	1.73	1.331	84.2	0.745	3.819	13.7	157.0	---	---	-0.59	0.329	132.9	53.7	2.0	0.297
4-4590	4-5270	0.338	153.9	18.2	1.76	1.328	84.1	0.737	3.702	13.9	158.8	---	---	-0.62	0.316	130.5	52.9	1.9	0.283
4-4590	4-5290	0.335	153.7	18.4	1.79	1.325	84.1	0.731	3.606	14.1	160.5	---	---	-0.64	0.305	128.1	52.1	1.9	0.271
4-4590	4-5310	0.333	153.6	18.6	1.82	1.322	84.0	0.724	3.525	14.2	162.1	---	---	-0.67	0.295	125.6	51.2	1.8	0.260
4-4590	4-5330	0.331	153.6	18.8	1.86	1.320	84.1	0.719	3.459	14.2	163.7	---	---	-0.70	0.286	123.1	50.2	1.7	0.250
4-4590	4-5350	0.329	153.7	19.0	1.90	1.319	84.1	0.714	3.402	14.2	165.2	---	---	-0.73	0.278	120.5	49.2	1.6	0.241
4-4590	4-5370	0.328	153.9	19.1	1.94	1.317	84.2	0.710	3.355	14.0	166.6	---	---	-0.77	0.271	118.0	48.1	1.5	0.232
4-4590	4-5390	0.326	154.3	19.3	1.99	1.316	84.3	0.707	3.315	13.9	168.0	---	---	-0.81	0.265	115.4	47.0	1.4	0.225
4-4590	4-5410	0.324	154.7	19.4	2.04	1.314	84.4	0.704	3.281	13.7	169.4	---	---	-0.86	0.260	112.8	45.8	1.2	0.218
4-4590	4-5430	0.322	155.2	19.5	2.10	1.313	84.5	0.701	3.253	13.4	170.6	---	---	-0.92	0.256	110.3	44.6	1.1	0.212
4-4590	4-5450	0.321	155.8	19.6	2.17	1.313	84.6	0.698	3.229	13.1	171.9	---	---	-0.98	0.252	107.7	43.3	1.0	0.207
4-4590	4-5470	0.319	156.6	19.7	2.25	1.312	84.8	0.696	3.209	12.7	173.1	---	---	-1.06	0.249	105.2	42.1	0.8	0.203
4-4590	4-5490	0.317	157.4	19.9	2.35	1.311	85.0	0.695	3.192	12.3	174.2	---	---	-1.15	0.246	102.8	40.8	0.6	0.199
4-4590	4-5510	0.316	158.3	20.1	2.46	1.311	85.2	0.693	3.179	11.8	175.3	---	---	-1.25	0.245	100.3	39.6	0.4	0.196
4-4590	4-5530	0.315	159.4	20.4	2.59	1.310	85.4	0.692	3.168	11.3	176.4	---	---	-1.38	0.243	98.0	38.4	0.2	0.193
4-4590	4-5550	0.314	160.5	20.7	2.76	1.310	85.6	0.691	3.160	10.8	177.4	---	---	-1.54	0.242	95.7	37.3	-0.1	0.191
4-4590	4-5570	0.313	161.8	21.2	2.97	1.310	85.8	0.690	3.153	10.2	178.4	---	---	-1.75	0.242	93.5	36.1	-0.4	0.190
4-4590	4-5590	0.312	163.3	21.9	3.24	1.310	86.1	0.689	3.148	9.6	179.4	---	---	-2.02	0.242	91.3	35.1	-0.8	0.189
4-4590	4-5610	0.312	165.1	23.0	3.62	1.309	86.4	0.689	3.145	8.9	180.4	---	5.311	-2.39	0.242	89.2	34.1	-1.4	0.188
4-4590	4-5630	0.314	167.2	24.7	4.17	1.309	86.6	0.688	3.144	8.2	181.3	---	5.308	-2.93	0.243	87.2	33.2	-2.1	0.188
4-4590	4-5650	0.318	169.9	27.5	5.04	1.309	86.9	0.688	3.144	7.5	182.2	---	5.306	-3.80	0.244	85.3	32.4	-3.3	0.188
4-4590	4-5670	0.328	174.2	32.7	6.65	1.309	87.2	0.688	3.144	6.8	183.0	---	5.308	-5.41	0.245	83.4	31.8	-5.3	0.190
4-4590	4-5690	0.367	183.4	44.3	10.64	1.309	87.5	0.688	3.146	6.0	183.8	---	5.311	-9.39	0.246	81.6	31.4	-10.1	0.196
4-4590	4-5710	0.748	257.3	70.8	34.66	1.310	87.8	0.688	3.149	5.3	184.7	---	5.316	-33.41	0.248	79.9	32.9	-28.7	0.266
4-4590	4-5730	0.452	136.9	-45.8	-17.01	1.310	88.2	0.688	3.153	4.3	185.4	---	5.323	18.27	0.250	78.3	29.2	22.2	0.217
4-4590	4-5750	0.321	157.3	-19.0	-6.25	1.310	88.6	0.689	3.158	3.5	186.2	---	5.332	7.51	0.252	76.7	28.9	10.9	0.196
4-4590	4-5770	0.303	163.5	-9.2	-3.44	1.310	88.9	0.689	3.163	2.6	187.0	---	5.343	4.71	0.254	75.2	28.7	7.4	0.195
4-4590	4-5790	0.298	167.2	-4.8	-2.15	1.310	89.3	0.690	3.169	1.7	187.7	---	5.354	3.43	0.256	73.8	28.5	5.8	0.196
4-4590	4-5810	0.296	170.0	-2.5	-1.41	1.311	89.7	0.690	3.176	0.8	188.4	---	5.367	2.69	0.258	72.4	28.4	4.8	0.198
4-4590	4-5830	0.295	172.4	-1.2	-0.93	1.311	90.1	0.691	3.183	359.8	549.1	0.984	5.382	2.22	0.260	71.1	28.3	4.2	0.200
4-4590	4-5850	0.295	174.6	-0.6	-0.60	1.311	90.5	0.692	3.191	358.9	549.7	0.984	5.397	1.89	0.263	69.8	28.4	3.8	0.202
4-4590	4-5870	0.296	176.7	-0.3	-0.35	1.311	90.9	0.692	3.199	357.9	550.4	0.984	5.414	1.64	0.265	68.6	28.5	3.5	0.204
4-4590	4-5890	0.296	178.8	-0.2	-0.15	1.312	91.3	0.693	3.207	356.9	551.0	0.984	5.431	1.45	0.268	67.5	28.6	3.2	0.206
4-4590	4-5910	0.297	180.8	-0.3	0.00	1.312	91.7	0.694	3.216	355.8	551.6	0.983	5.449	1.30	0.271	66.4	28.9	3.0	0.209
4-4590	4-5930	0.299	182.7	-0.6	0.13	1.312	92.1	0.695	3.226	354.8	552.2	0.982	5.469	1.18	0.273	65.3	29.2	2.9	0.212
4-4590	4-5950	0.300	184.7	-0.9	0.23	1.313	92.6	0.697	3.235	353.7	552.8	0.982	5.489	1.08	0.276	64.3	29.5	2.8	0.214
4-4590	4-5970	0.302	186.6	-1.4	0.32	1.313	93.1	0.698	3.245	352.6	553.4	0.981	5.510	1.00	0.279	63.3	30.0	2.7	0.217
4-4590	4-5990	0.305	188.6	-1.8	0.40	1.313	93.5	0.699	3.255	351.5	553.9	0.980	5.531	0.93	0.281	62.4	30.5	2.6	0.220
4-4590	4-6010	0.307	190.5	-2.4	0.46	1.314	94.0	0.700	3.266	350.3	554.5	0.978	5.554	0.87	0.284	61.5	31.0	2.6	0.223
4-4590	4-6030	0.310	192.4	-2.9	0.52	1.314	94.5	0.702	3.277	349.2	555.0	0.977	5.577	0.82	0.287	60.6	31.6	2.5	0.226
4-4590	4-6050	0.313	194.3	-3.5	0.57	1.315	95.0	0.703	3.288	348.0	555.5	0.975	5.600	0.77	0.289	59.7	32.3	2.5	0.229
4-4590	4-6070	0.317	196.2	-4.1	0.62	1.315	95.5	0.705	3.299	346.8	556.0	0.973	5.624	0.73	0.292	58.9	33.0	2.5	0.232
4-4590	4-6090	0.321	198.1	-4.8	0.66	1.315	96.0	0.707	3.310	345.6	556.5	0.971	5.649	0.69	0.295	58.1	33.7	2.4	0.235
4-4590	4-6110	0.325	200.0	-5.4	0.70	1.316	96.5	0.708	3.322	344.3	556.9	0.969	5.675	0.66	0.298	57.4	34.5	2.4	0.238
4-4590	4-6130	0.330	201.9	-6.0	0.74	1.316	97.0	0.710	3.334	343.1	557.4	0.966	5.701	0.63	0.300	56.6	35.4	2.4	0.242
4-4590	4-6150	0.335	203.7	-6.7	0.77	1.317	97.6	0.712	3.346	341.8	557.8	0.964	5.728	0.60	0.303	55.9	36.3	2.4	0.245
4-4590	4-6170	0.340	205.6	-7.3	0.80	1.317	98.1	0.714	3.358	340.5	558.3	0.961	5.755	0.58	0.306	55.2	37.2	2.4	0.248
4-4590	4-6190	0.346	207.4	-8.0	0.82	1.317	98.7	0.716	3.370	339.2	558.7	0.957	5.782	0.56	0.308	54.5	38.2	2.5	0.252
4-4600	4-4880	0.629	180.2	3.7	1.33	1.643	87.9	1.654-1.501		3.4	108.4	---	---	-0.13	1.016	163.1	55.9	2.5	0.982
4-4600	4-4900	0.582	177.6	5.0	1.34	1.593	86.9	1.495-1.980		5.1	111.6	---	---	-0.13	0.934	162.1	56.2	2.5	0.901
4-4600	4-4920	0.543	175.0	6.3	1.34	1.552	86.1	1.367-2.669		6.8	114.9	---	---	-0.13	0.861	161.1	56.4	2.5	0.830
4-4600	4-4940	0.512	172.3	7.6	1.34	1.517	85.2	1.262-3.729		8.5	118.1	---	---	-0.14	0.797	160.0	56.6	2.5	0.766
4-4600	4-4960	0.488	169.7	8.9	1.35	1.488	84.5	1.176-5.565		10.2	121.3	---	---	-0.14	0.740	158.8	56.8	2.5	0.710
4-4600	4-4980	0.467	167.2	10.1	1.35	1.463	83.8	1.104-9.322		11.9	124.4	---	---	-0.14	0.689	157.6	57.0	2.5	0.660
4-4600	4-5000	0.451	164.7	11.2	1.36	1.442	83.2	1.04521-729		13.4	127.5	---	---	-0.14	0.643	156.3	57.0	2.5	0.615
4-4600	4-5020	0.438	162.5	12.2	1.36	1.424	82.6	0.99579-.523		14.9	130.5	---	---	-0.14	0.602	154.9	57.1	2.5	0.574
4-4600	4-5040	0.427	160.4	13.1	1.36	1.409	82.1	0.95220.247		16.2	133.4	---	---	-0.14	0.564	153.4	57.1	2.5	0.538
4-4600	4-5060	0.419	158.5	13.9	1.37	1.395	81.6	0.91711.529		17.5	136.2	---	---	-0.15	0.530	151.9	57.0	2.5	0.504
4-4600	4-5080	0.412	156.8	14.6	1.37	1.384	81.2	0.886	8.423	18.7	138.9	---	---	-0.15	0.499	150.3	56.9	2.5	0.473
4-4600	4-5100	0.406	155.2	15.3	1.38	1.374	80.9	0.860	6.840	19.7	141.4	---	---	-0.15	0.471	148.6	56.7	2.5	0.445
4-4600	4-5120	0.401	153.8	15.8	1.38	1.365	80.6	0.838	5.886	20.7	143.9	---	---	-0.15	0.445	146.8	56.5	2.5	0.420
4-4600	4-5140	0.397	152.6	16.3	1.39	1.358	80.3	0.819	5.253	21.5	146.3	---	---	-0.16	0.422	144.9	56.2	2.5	0.396
4-4600	4-5160	0.393	151.6	16.7	1.39	1.351	80.1	0.802	4.804	22.3	148.5	---	---	-0.16	0.401	143.0	55.8	2.4	0.375
4-4600	4-5180	0.390	150.7	17.1	1.40	1.345	79.9	0.788	4.473	22.9	150.7	---	---	-0.16	0.381	140.9	55.3	2.4	0.355
4-4600	4-5200	0.387	149.9	17.4	1.40	1.340	79.8	0.775	4.220	23.4	152.8	---	---	-0.17	0.364	138.8	54.8	2.4	0.337
4-4600	4-5220	0.385	149.3	17.6	1.41	1.336	79.7	0.765	4.021	23.9	154.7	---	---	-0.17	0.347	136.6	54.2	2.4	0.320
4-4600	4-5240	0.382	148.8	17.8	1.42	1.332	79.6	0.755	3.863	24.2	156.6	---	---	-0.17	0.333	134.3	53.6	2.3	0.305
4-4600	4-5260	0.380	148.4	18.0	1.42	1.329	79.6	0.747	3.735	24.5	158.4	---	---	-0.18	0.320	132.0	52.8	2.3	0.291
4-4600	4-5280	0.377	148.2	18.1	1.43	1.326	79.5	0.740	3.630	24.7	160.1	---	---	-0.18	0.308	129.5	52.0	2.3	0.278
4-4600	4-5300	0.375	148.0	18.2	1.44	1.323	79.5	0.733	3.543	24.8	161.8	---	---	-0.19	0.297	127.1	51.1	2.2	0.267

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4600	4-5320	0.373	148.0	18.3	1.44	1.321	79.6	0.728	3.471	24.8	163.4	---	---	-0.19	0.288	124.5	50.1	2.2	0.256
4-4600	4-5340	0.371	148.0	18.3	1.45	1.319	79.6	0.723	3.410	24.8	164.9	---	---	-0.20	0.279	122.0	49.1	2.1	0.246
4-4600	4-5360	0.368	148.2	18.4	1.46	1.318	79.7	0.718	3.360	24.7	166.3	---	---	-0.21	0.272	119.4	48.0	2.1	0.238
4-4600	4-5380	0.366	148.4	18.3	1.47	1.316	79.8	0.715	3.317	24.5	167.7	---	---	-0.21	0.265	116.8	46.9	2.0	0.230
4-4600	4-5400	0.363	148.7	18.3	1.48	1.315	79.9	0.711	3.281	24.3	169.0	---	---	-0.22	0.260	114.2	45.8	2.0	0.223
4-4600	4-5420	0.361	149.1	18.3	1.49	1.314	80.1	0.708	3.251	24.0	170.3	---	---	-0.23	0.255	111.6	44.6	1.9	0.217
4-4600	4-5440	0.358	149.5	18.2	1.50	1.313	80.2	0.706	3.226	23.7	171.5	---	---	-0.24	0.251	109.0	43.3	1.8	0.211
4-4600	4-5460	0.356	150.0	18.1	1.52	1.312	80.4	0.703	3.205	23.3	172.7	---	---	-0.25	0.248	106.4	42.1	1.8	0.207
4-4600	4-5480	0.353	150.6	18.0	1.53	1.311	80.6	0.701	3.187	22.9	173.9	---	---	-0.26	0.245	103.9	40.9	1.7	0.203
4-4600	4-5500	0.350	151.3	17.9	1.55	1.311	80.8	0.700	3.173	22.4	175.0	---	---	-0.28	0.243	101.4	39.7	1.6	0.199
4-4600	4-5520	0.348	152.0	17.7	1.56	1.311	81.0	0.698	3.161	21.9	176.1	---	---	-0.29	0.241	99.0	38.5	1.6	0.196
4-4600	4-5540	0.345	152.8	17.6	1.58	1.310	81.2	0.697	3.152	21.4	177.1	---	---	-0.31	0.240	96.7	37.3	1.5	0.194
4-4600	4-5560	0.342	153.6	17.4	1.60	1.310	81.5	0.696	3.146	20.8	178.1	---	---	-0.33	0.240	94.4	36.2	1.4	0.192
4-4600	4-5580	0.340	154.5	17.2	1.63	1.310	81.8	0.695	3.141	20.2	179.0	---	---	-0.35	0.240	92.2	35.2	1.3	0.191
4-4600	4-5600	0.337	155.5	17.1	1.66	1.310	82.0	0.694	3.137	19.5	180.0	---	---	-0.38	0.240	90.0	34.2	1.2	0.190
4-4600	4-5620	0.334	156.6	16.9	1.69	1.310	82.3	0.693	3.136	18.8	180.9	---	5.309	-0.41	0.241	88.0	33.3	1.2	0.189
4-4600	4-5640	0.331	157.7	16.7	1.73	1.310	82.6	0.693	3.135	18.1	181.8	---	5.307	-0.45	0.241	86.0	32.4	1.1	0.189
4-4600	4-5660	0.329	158.8	16.5	1.78	1.310	82.9	0.692	3.136	17.4	182.6	---	5.307	-0.50	0.243	84.1	31.7	1.0	0.189
4-4600	4-5680	0.326	160.1	16.4	1.85	1.310	83.2	0.692	3.138	16.6	183.5	---	5.310	-0.56	0.244	82.3	31.0	0.9	0.189
4-4600	4-5700	0.324	161.4	16.2	1.93	1.310	83.6	0.692	3.141	15.8	184.3	---	5.314	-0.64	0.246	80.6	30.4	0.7	0.190
4-4600	4-5720	0.322	162.9	16.2	2.03	1.310	83.9	0.692	3.145	15.0	185.1	---	5.320	-0.74	0.247	78.9	29.9	0.6	0.191
4-4600	4-5740	0.319	164.4	16.3	2.17	1.310	84.2	0.692	3.150	14.1	185.8	---	5.328	-0.88	0.249	77.3	29.5	0.4	0.192
4-4600	4-5760	0.318	166.1	16.6	2.39	1.310	84.6	0.692	3.155	13.2	186.6	---	5.338	-1.10	0.252	75.8	29.1	0.1	0.194
4-4600	4-5780	0.317	168.1	17.5	2.74	1.311	85.0	0.692	3.161	12.3	187.3	---	5.349	-1.45	0.254	74.4	28.9	-0.3	0.195
4-4600	4-5800	0.317	170.8	19.6	3.44	1.311	85.3	0.692	3.168	11.4	188.0	---	5.361	-2.14	0.256	73.0	28.8	-1.2	0.197
4-4600	4-5820	0.326	175.6	26.1	5.39	1.311	85.7	0.692	3.175	10.5	188.7	---	5.374	-4.09	0.259	71.7	28.8	-3.5	0.200
4-4600	4-5840	0.893	280.7	72.4	42.72	1.311	86.1	0.693	3.183	9.5	189.4	---	5.389	-41.42	0.261	70.4	34.6	-30.3	0.307
4-4600	4-5860	0.312	163.7	-9.4	-3.57	1.312	86.5	0.693	3.192	8.5	190.0	---	5.404	4.87	0.264	69.2	28.4	7.3	0.205
4-4600	4-5880	0.303	169.6	-0.3	-1.02	1.312	86.9	0.694	3.200	7.5	190.6	---	5.421	2.32	0.266	68.1	28.6	4.3	0.206
4-4600	4-5900	0.301	172.6	2.1	-0.22	1.312	87.4	0.694	3.210	6.5	191.3	---	5.438	1.53	0.269	67.0	28.9	3.3	0.208
4-4600	4-5920	0.300	175.0	3.0	0.17	1.313	87.8	0.695	3.219	5.4	191.9	---	5.456	1.13	0.272	65.9	29.2	2.8	0.210
4-4600	4-5940	0.299	177.2	3.2	0.40	1.313	88.2	0.696	3.229	4.3	192.5	---	5.476	0.90	0.274	64.9	29.5	2.6	0.213
4-4600	4-5960	0.298	179.2	3.0	0.56	1.313	88.7	0.697	3.239	3.3	193.0	---	5.495	0.75	0.277	63.9	29.9	2.4	0.215
4-4600	4-5980	0.298	181.3	2.7	0.67	1.314	89.1	0.697	3.250	2.1	193.6	---	5.516	0.64	0.280	63.0	30.4	2.3	0.218
4-4600	4-6000	0.298	183.3	2.2	0.75	1.314	89.6	0.698	3.260	1.0	194.2	---	5.537	0.56	0.283	62.1	30.9	2.2	0.221
4-4600	4-6020	0.298	185.3	1.6	0.82	1.315	90.1	0.699	3.271	359.9	554.7	0.983	5.559	0.50	0.285	61.3	31.5	2.2	0.223
4-4600	4-6040	0.299	187.3	1.0	0.87	1.315	90.5	0.700	3.283	358.7	555.2	0.983	5.582	0.45	0.288	60.4	32.1	2.1	0.226
4-4600	4-6060	0.300	189.4	0.3	0.91	1.315	91.0	0.702	3.294	357.5	555.7	0.983	5.605	0.41	0.291	59.7	32.8	2.1	0.229
4-4600	4-6080	0.301	191.4	-0.4	0.95	1.316	91.5	0.703	3.306	356.3	556.2	0.983	5.629	0.38	0.294	58.9	33.5	2.1	0.232
4-4600	4-6100	0.303	193.5	-1.2	0.98	1.316	92.0	0.704	3.317	355.1	556.7	0.982	5.653	0.35	0.296	58.2	34.3	2.1	0.235
4-4600	4-6120	0.304	195.5	-1.9	1.00	1.317	92.5	0.705	3.329	353.9	557.2	0.981	5.678	0.32	0.299	57.4	35.1	2.1	0.238
4-4600	4-6140	0.307	197.6	-2.7	1.03	1.317	93.1	0.707	3.342	352.6	557.6	0.980	5.703	0.30	0.302	56.8	36.0	2.1	0.241
4-4600	4-6160	0.309	199.7	-3.5	1.05	1.317	93.6	0.708	3.354	351.4	558.1	0.979	5.729	0.28	0.305	56.1	36.9	2.1	0.244
4-4600	4-6180	0.312	201.7	-4.3	1.06	1.318	94.1	0.710	3.366	350.1	558.5	0.977	5.755	0.27	0.307	55.4	37.8	2.2	0.247
4-4600	4-6200	0.316	203.8	-5.1	1.08	1.318	94.7	0.711	3.379	348.8	558.9	0.976	5.782	0.25	0.310	54.8	38.8	2.2	0.250
4-4610	4-4890	0.641	173.6	6.3	1.29	1.626	81.1	1.587-1.644		14.4	110.0	---	---	0.10	0.988	162.9	56.1	2.6	0.955
4-4610	4-4910	0.600	170.8	7.6	1.29	1.578	80.4	1.438-2.194		16.3	113.4	---	---	0.11	0.907	162.0	56.3	2.6	0.876
4-4610	4-4930	0.568	168.1	8.8	1.29	1.538	79.7	1.317-3.010		18.2	116.8	---	---	0.11	0.836	160.9	56.5	2.6	0.807
4-4610	4-4950	0.543	165.4	10.0	1.28	1.505	79.0	1.220-4.319		20.0	120.1	---	---	0.11	0.774	159.8	56.6	2.6	0.746
4-4610	4-4970	0.523	162.9	11.1	1.28	1.477	78.4	1.140-6.740		21.8	123.4	---	---	0.11	0.718	158.7	56.7	2.6	0.691
4-4610	4-4990	0.508	160.5	12.1	1.28	1.454	77.8	1.07412.632		23.5	126.7	---	---	0.11	0.668	157.4	56.8	2.6	0.643
4-4610	4-5010	0.495	158.3	13.0	1.27	1.434	77.3	1.02047.189		25.1	129.8	---	---	0.11	0.623	156.1	56.8	2.6	0.599
4-4610	4-5030	0.485	156.4	13.8	1.27	1.416	76.9	0.97436.176		26.6	132.8	---	---	0.11	0.583	154.7	56.8	2.6	0.560
4-4610	4-5050	0.477	154.6	14.4	1.27	1.402	76.5	0.93614.474		28.0	135.7	---	---	0.11	0.546	153.2	56.7	2.6	0.524
4-4610	4-5070	0.470	153.0	15.0	1.26	1.389	76.1	0.904 9.579		29.3	138.5	---	---	0.11	0.513	151.6	56.5	2.6	0.491
4-4610	4-5090	0.465	151.5	15.5	1.26	1.378	75.8	0.876 7.430		30.4	141.2	---	---	0.11	0.483	150.0	56.3	2.6	0.462
4-4610	4-5110	0.460	150.3	16.0	1.26	1.369	75.6	0.853 6.229		31.4	143.7	---	---	0.11	0.456	148.2	56.1	2.6	0.435
4-4610	4-5130	0.456	149.2	16.4	1.26	1.361	75.3	0.833 5.468		32.3	146.1	---	---	0.11	0.431	146.4	55.7	2.6	0.410
4-4610	4-5150	0.453	148.3	16.7	1.25	1.353	75.2	0.816 4.946		33.1	148.4	---	---	0.12	0.408	144.5	55.3	2.6	0.387
4-4610	4-5170	0.450	147.5	17.0	1.25	1.347	75.0	0.801 4.569		33.8	150.6	---	---	0.12	0.387	142.4	54.9	2.6	0.367
4-4610	4-5190	0.447	146.8	17.2	1.24	1.342	74.9	0.788	4.285	34.4	152.7	---	---	0.12	0.368	140.3	54.3	2.6	0.348
4-4610	4-5210	0.444	146.3	17.3	1.24	1.337	74.8	0.777	4.066	34.8	154.7	---	---	0.12	0.351	138.1	53.7	2.6	0.330
4-4610	4-5230	0.442	145.9	17.5	1.24	1.333	74.8	0.767	3.893	35.2	156.6	---	---	0.12	0.336	135.9	53.0	2.5	0.314
4-4610	4-5250	0.439	145.6	17.6	1.23	1.330	74.8	0.759	3.754	35.4	158.4	---	---	0.12	0.322	133.5	52.3	2.5	0.300
4-4610	4-5270	0.436	145.4	17.7	1.23	1.326	74.8	0.752	3.641	35.6	160.1	---	---	0.13	0.309	131.1	51.5	2.5	0.286
4-4610	4-5290	0.434	145.2	17.7	1.23	1.324	74.8	0.745	3.548	35.7	161.8	---	---	0.13	0.298	128.6	50.6	2.5	0.274
4-4610	4-5310	0.431	145.2	17.7	1.22	1.321	74.9	0.739	3.471	35.8	163.3	---	---	0.13	0.287	126.0	49.6	2.5	0.263
4-4610	4-5330	0.428	145.2	17.7	1.22	1.319	75.0	0.734	3.407	35.7	164.8	---	---	0.13	0.278	123.4	48.6	2.4	0.253
4-4610	4-5350	0.425	145.3	17.7	1.21	1.318	75.1	0.730	3.354	35.6	166.3	---	---	0.14	0.271	120.8	47.5	2.4	0.244
4-4610	4-5370	0.422	145.5	17.7	1.21	1.316	75.2	0.726	3.309	35.4	167.6	---	---	0.14	0.264	118.1	46.4	2.4	0.236
4-4610	4-5390	0.419	145.7	17.6	1.20	1.315	75.3	0.722	3.271	35.2	169.0	---	---	0.14	0.258	115.4	45.3	2.3	0.229
4-4610	4-5410	0.416	146.0	17.5	1.20	1.314	75.5	0.719	3.240	34.9	170.2	---	---	0.15	0.253	112.8	44.1	2.3	0.222
4-4610	4-5430	0.413	146.4	17.4	1.19	1.313	75.7	0.717	3.214	34.5	171.4	---	---	0.15	0.248	110.1	42.9	2.3	0.217
4-4610	4-5450	0.410	146.8	17.3	1.18	1.312	75.9	0.714	3.192	34.1	172.6	---	---	0.16	0.245	107.5	41.7	2.2	0.212
4-4610	4-5470	0.406	147.3	17.1	1.18	1.311	76.1	0.712	3.174	33.7	173.7	---	---	0.16	0.242	104.9	40.5	2.2	0.207
4-4610	4-5490	0.403	147.8	16.9	1.17	1.311	76.3	0.710	3.159	33.2	174.8	---	---	0.17	0.240	102.3	39.3	2.1	0.204
4-4610	4-5510	0.399	148.3	16.8	1.16	1.310	76.5	0.708	3.147	32.7	175.9	---	---	0.17	0.238	99.9	38.1	2.1	0.201
4-4610	4-5530	0.396	149.0	16.6	1.15	1.310	76.8	0.707	3.138	32.1	176.9	---	---	0.18	0.237	97.4	37.0	2.1	0.198
4-4610	4-5550	0.392	149.6	16.3	1.14	1.309	77.0	0.705	3.131	31.5	177.9	---	---	0.19	0.236	95.1	35.9	2.0	0.196
4-4610	4-5570	0.388	150.3	16.1	1.14	1.309	77.3	0.704	3.126	30.9	178.8	---	---	0.20	0.236	92.8	34.9	2.0	0.194

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4610	4-5590	0.385	151.1	15.8	1.12	1.309	77.6	0.703	3.123	30.2	179.7	---	---	0.21	0.236	90.6	33.9	2.0	0.193
4-4610	4-5610	0.381	151.9	15.5	1.11	1.309	77.9	0.702	3.121	29.6	180.6	---	5.312	0.22	0.237	88.5	33.0	1.9	0.192
4-4610	4-5630	0.377	152.7	15.2	1.10	1.309	78.2	0.701	3.121	28.8	181.5	---	5.309	0.23	0.238	86.5	32.2	1.9	0.192
4-4610	4-5650	0.373	153.6	14.9	1.08	1.309	78.5	0.700	3.122	28.1	182.3	---	5.308	0.24	0.239	84.6	31.5	1.9	0.192
4-4610	4-5670	0.369	154.6	14.5	1.07	1.309	78.8	0.700	3.124	27.3	183.2	---	5.310	0.25	0.241	82.7	30.8	1.9	0.192
4-4610	4-5690	0.365	155.5	14.1	1.05	1.309	79.1	0.699	3.127	26.5	184.0	---	5.314	0.27	0.242	80.9	30.2	1.9	0.193
4-4610	4-5710	0.361	156.6	13.7	1.03	1.309	79.5	0.699	3.132	25.6	184.7	---	5.320	0.29	0.244	79.3	29.7	1.9	0.194
4-4610	4-5730	0.357	157.6	13.3	1.00	1.310	79.8	0.698	3.136	24.8	185.5	---	5.327	0.32	0.246	77.6	29.3	1.9	0.194
4-4610	4-5750	0.353	158.7	12.8	0.97	1.310	80.2	0.698	3.142	23.9	186.2	---	5.336	0.34	0.248	76.1	28.9	1.9	0.196
4-4610	4-5770	0.349	159.9	12.2	0.94	1.310	80.6	0.698	3.149	23.0	186.9	---	5.346	0.38	0.251	74.6	28.7	1.9	0.197
4-4610	4-5790	0.345	161.0	11.6	0.90	1.310	81.0	0.698	3.156	22.1	187.6	---	5.358	0.42	0.253	73.3	28.5	2.0	0.199
4-4610	4-5810	0.342	162.2	11.0	0.84	1.311	81.3	0.698	3.163	21.1	188.3	---	5.370	0.47	0.256	71.9	28.4	2.0	0.200
4-4610	4-5830	0.338	163.5	10.2	0.77	1.311	81.7	0.698	3.171	20.1	189.0	---	5.384	0.54	0.258	70.7	28.4	2.1	0.202
4-4610	4-5850	0.334	164.7	9.4	0.68	1.311	82.1	0.698	3.180	19.2	189.6	---	5.399	0.63	0.261	69.5	28.4	2.2	0.204
4-4610	4-5870	0.331	165.9	8.4	0.55	1.312	82.6	0.698	3.189	18.2	190.3	---	5.415	0.76	0.264	68.3	28.6	2.4	0.206
4-4610	4-5890	0.327	167.1	7.0	0.34	1.312	83.0	0.698	3.199	17.1	190.9	---	5.432	0.96	0.266	67.2	28.7	2.6	0.208
4-4610	4-5910	0.324	168.0	5.1	-0.00	1.312	83.4	0.698	3.208	16.1	191.5	---	5.449	1.31	0.269	66.2	29.0	3.0	0.211
4-4610	4-5930	0.321	168.4	1.7	-0.75	1.313	83.8	0.699	3.219	15.0	192.1	---	5.468	2.06	0.272	65.2	29.3	3.9	0.213
4-4610	4-5950	0.325	165.4	-9.2	-3.51	1.313	84.3	0.699	3.229	13.9	192.7	---	5.487	4.82	0.275	64.2	29.6	7.0	0.217
4-4610	4-5970	0.433	197.4	49.4	14.85	1.314	84.7	0.700	3.240	12.8	193.3	---	5.506	-13.55	0.278	63.3	31.8	-13.0	0.231
4-4610	4-5990	0.323	181.3	18.0	4.13	1.314	85.2	0.700	3.251	11.7	193.8	---	5.527	-2.83	0.281	62.4	30.9	-1.6	0.221
4-4610	4-6010	0.315	181.1	12.7	2.88	1.314	85.6	0.701	3.262	10.6	194.4	---	5.548	-1.58	0.283	61.6	31.4	-0.2	0.223
4-4610	4-6030	0.312	182.2	10.1	2.39	1.315	86.1	0.701	3.274	9.4	194.9	---	5.569	-1.09	0.286	60.8	32.0	0.4	0.225
4-4610	4-6050	0.309	183.6	8.4	2.13	1.315	86.6	0.702	3.285	8.2	195.4	---	5.592	-0.84	0.289	60.0	32.6	0.7	0.228
4-4610	4-6070	0.307	185.3	7.0	1.97	1.316	87.1	0.703	3.297	7.1	195.9	---	5.614	-0.68	0.292	59.3	33.3	0.9	0.231
4-4610	4-6090	0.305	187.0	5.7	1.86	1.316	87.6	0.704	3.309	5.9	196.4	---	5.638	-0.57	0.295	58.6	34.0	1.1	0.233
4-4610	4-6110	0.304	188.9	4.6	1.78	1.316	88.1	0.704	3.322	4.6	196.9	---	5.661	-0.49	0.298	57.9	34.8	1.2	0.236
4-4610	4-6130	0.303	190.8	3.5	1.72	1.317	88.6	0.705	3.334	3.4	197.4	---	5.686	-0.43	0.300	57.2	35.7	1.3	0.239
4-4610	4-6150	0.303	192.8	2.4	1.67	1.317	89.1	0.706	3.347	2.2	197.8	---	5.711	-0.39	0.303	56.6	36.5	1.4	0.242
4-4610	4-6170	0.303	194.9	1.4	1.63	1.318	89.6	0.707	3.359	0.9	198.3	---	5.736	-0.35	0.306	56.0	37.4	1.5	0.244
4-4610	4-6190	0.303	197.0	0.3	1.60	1.318	90.2	0.708	3.372	359.6	558.7	0.983	5.761	-0.32	0.309	55.4	38.4	1.6	0.247
4-4610	4-6210	0.304	199.1	-0.7	1.58	1.319	90.7	0.710	3.385	358.3	559.1	0.983	5.787	-0.29	0.311	54.8	39.4	1.6	0.250
4-4620	4-4940	0.625	162.4	10.7	1.27	1.524	73.0	1.262	-3.472	30.4	119.6	---	---	0.33	0.809	161.0	56.2	2.7	0.785
4-4620	4-4960	0.604	160.0	11.6	1.26	1.492	72.5	1.174	-5.182	32.4	123.1	---	---	0.33	0.748	159.9	56.2	2.7	0.725
4-4620	4-4980	0.587	157.8	12.5	1.25	1.466	72.0	1.102	-8.728	34.2	126.4	---	---	0.33	0.694	158.7	56.3	2.7	0.673
4-4620	4-5000	0.574	155.9	13.2	1.24	1.443	71.6	1.044	20.267	36.0	129.7	---	---	0.33	0.645	157.5	56.2	2.7	0.625
4-4620	4-5020	0.563	154.1	13.9	1.23	1.424	71.2	0.995	91.948	37.6	132.8	---	---	0.33	0.602	156.1	56.2	2.7	0.583
4-4620	4-5040	0.555	152.5	14.5	1.22	1.408	70.9	0.955	19.518	39.1	135.8	---	---	0.34	0.562	154.7	56.0	2.7	0.545
4-4620	4-5060	0.548	151.1	14.9	1.21	1.394	70.6	0.921	11.083	40.4	138.7	---	---	0.34	0.527	153.2	55.9	2.7	0.510
4-4620	4-5080	0.542	149.9	15.4	1.20	1.382	70.4	0.893	8.103	41.7	141.4	---	---	0.34	0.494	151.5	55.6	2.7	0.479
4-4620	4-5100	0.537	148.8	15.7	1.20	1.372	70.2	0.869	6.588	42.7	144.0	---	---	0.34	0.465	149.8	55.3	2.7	0.450
4-4620	4-5120	0.532	147.9	16.0	1.19	1.363	70.0	0.849	5.678	43.7	146.5	---	---	0.34	0.438	148.0	55.0	2.7	0.424
4-4620	4-5140	0.528	147.1	16.2	1.18	1.355	69.9	0.831	5.075	44.5	148.8	---	---	0.34	0.414	146.1	54.6	2.7	0.400
4-4620	4-5160	0.526	146.5	16.4	1.17	1.348	69.8	0.816	4.649	45.1	151.0	---	---	0.35	0.392	144.2	54.1	2.7	0.379
4-4620	4-5180	0.521	146.0	16.6	1.16	1.343	69.8	0.804	4.335	45.7	153.1	---	---	0.35	0.372	142.1	53.5	2.7	0.359
4-4620	4-5200	0.518	145.5	16.7	1.15	1.338	69.7	0.792	4.096	46.2	155.1	---	---	0.35	0.354	139.9	52.9	2.7	0.341
4-4620	4-5220	0.515	145.2	16.8	1.14	1.333	69.7	0.783	3.908	46.5	157.0	---	---	0.36	0.337	137.6	52.2	2.7	0.324
4-4620	4-5240	0.512	145.0	16.9	1.13	1.329	69.8	0.774	3.760	46.8	158.8	---	---	0.36	0.322	135.2	51.4	2.7	0.309
4-4620	4-5260	0.509	144.8	16.9	1.12	1.326	69.8	0.767	3.639	46.9	160.5	---	---	0.36	0.309	132.8	50.6	2.6	0.295
4-4620	4-5280	0.505	144.7	16.9	1.11	1.323	69.9	0.760	3.541	47.0	162.1	---	---	0.37	0.296	130.2	49.7	2.6	0.283
4-4620	4-5300	0.502	144.7	16.9	1.10	1.321	70.0	0.755	3.460	47.0	163.6	---	---	0.37	0.286	127.6	48.7	2.6	0.271
4-4620	4-5320	0.499	144.7	16.9	1.08	1.319	70.1	0.749	3.393	46.9	165.1	---	---	0.38	0.276	125.0	47.7	2.6	0.261
4-4620	4-5340	0.495	144.8	16.9	1.07	1.317	70.2	0.745	3.338	46.8	166.5	---	---	0.38	0.268	122.3	46.6	2.6	0.251
4-4620	4-5360	0.492	145.0	16.8	1.06	1.315	70.4	0.741	3.291	46.6	167.8	---	---	0.39	0.260	119.5	45.5	2.6	0.243
4-4620	4-5380	0.488	145.2	16.7	1.05	1.314	70.6	0.737	3.252	46.3	169.1	---	---	0.40	0.254	116.8	44.4	2.5	0.236
4-4620	4-5400	0.484	145.5	16.6	1.03	1.313	70.7	0.734	3.220	46.0	170.3	---	---	0.40	0.248	114.0	43.2	2.5	0.229
4-4620	4-5420	0.480	145.8	16.5	1.02	1.312	70.9	0.731	3.193	45.6	171.5	---	---	0.41	0.244	111.3	42.1	2.5	0.223
4-4620	4-5440	0.476	146.1	16.4	1.01	1.311	71.2	0.728	3.171	45.2	172.7	---	---	0.42	0.240	108.5	40.9	2.4	0.218
4-4620	4-5460	0.472	146.5	16.2	0.99	1.310	71.4	0.726	3.152	44.7	173.8	---	---	0.43	0.237	105.8	39.7	2.4	0.213
4-4620	4-5480	0.468	147.0	16.1	0.98	1.309	71.6	0.724	3.138	44.2	174.8	---	---	0.44	0.235	103.2	38.6	2.4	0.209
4-4620	4-5500	0.464	147.4	15.9	0.96	1.309	71.9	0.722	3.126	43.7	175.8	---	---	0.45	0.233	100.6	37.4	2.4	0.206
4-4620	4-5520	0.459	147.9	15.7	0.94	1.309	72.1	0.720	3.117	43.1	176.8	---	---	0.46	0.232	98.1	36.3	2.3	0.203
4-4620	4-5540	0.455	148.5	15.5	0.93	1.308	72.4	0.718	3.110	42.4	177.8	---	---	0.47	0.231	95.6	35.3	2.3	0.201
4-4620	4-5560	0.450	149.1	15.2	0.91	1.308	72.7	0.717	3.105	41.8	178.7	---	---	0.49	0.231	93.3	34.3	2.3	0.200
4-4620	4-5580	0.446	149.7	15.0	0.89	1.308	73.0	0.715	3.102	41.1	179.6	---	---	0.50	0.231	91.0	33.4	2.3	0.198
4-4620	4-5600	0.441	150.3	14.7	0.86	1.308	73.3	0.714	3.101	40.4	180.5	---	5.315	0.52	0.232	88.8	32.5	2.3	0.197
4-4620	4-5620	0.436	151.0	14.4	0.84	1.308	73.6	0.713	3.101	39.6	181.3	---	5.312	0.54	0.233	86.7	31.7	2.2	0.197
4-4620	4-5640	0.431	151.7	14.1	0.82	1.308	74.0	0.712	3.102	38.9	182.1	---	5.311	0.56	0.234	84.7	31.0	2.2	0.197
4-4620	4-5660	0.427	152.5	13.8	0.79	1.308	74.3	0.711	3.104	38.1	182.9	---	5.312	0.58	0.236	82.8	30.3	2.2	0.197
4-4620	4-5680	0.422	153.3	13.5	0.76	1.308	74.7	0.710	3.108	37.2	183.7	---	5.315	0.60	0.238	81.0	29.8	2.2	0.197
4-4620	4-5700	0.417	154.1	13.1	0.73	1.308	75.0	0.710	3.112	36.4	184.5	---	5.321	0.63	0.240	79.3	29.3	2.3	0.198
4-4620	4-5720	0.412	155.0	12.7	0.69	1.309	75.4	0.709	3.118	35.5	185.2	---	5.328	0.66	0.242	77.6	28.9	2.3	0.198
4-4620	4-5740	0.407	155.8	12.3	0.65	1.309	75.7	0.708	3.124	34.6	185.9	---	5.336	0.69	0.244	76.1	28.6	2.3	0.199
4-4620	4-5760	0.402	156.8	11.8	0.61	1.309	76.1	0.708	3.131	33.7	186.6	---	5.346	0.73	0.247	74.6	28.3	2.3	0.201
4-4620	4-5780	0.397	157.7	11.3	0.56	1.309	76.5	0.707	3.138	32.8	187.3	---	5.357	0.77	0.249	73.2	28.2	2.4	0.202
4-4620	4-5800	0.391	158.7	10.7	0.51	1.310	76.9	0.707	3.146	31.8	188.0	---	5.370	0.82	0.252	71.8	28.1	2.4	0.203
4-4620	4-5820	0.386	159.7	10.1	0.45	1.310	77.3	0.706	3.155	30.8	188.7	---	5.383	0.88	0.254	70.6	28.1	2.5	0.205
4-4620	4-5840	0.381	160.7	9.5	0.37	1.310	77.7	0.706	3.164	29.8	189.3	---	5.397	0.95	0.257	69.4	28.1	2.6	0.207
4-4620	4-5860	0.376	161.8	8.8	0.29	1.311	78.1	0.706	3.173	28.8	189.9	---	5.413	1.03	0.260	68.2	28.3	2.6	0.209
4-4620	4-5880	0.371	162.8	8.0	0.19	1.311	78.6	0.706	3.183	27.8	190.6	---	5.429	1.12	0.263	67.1	28.5	2.8	0.211

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4620	4-5900	0.367	163.9	7.1	0.07	1.312	79.0	0.706	3.193	26.7	191.2	---	5.446	1.24	0.266	66.1	28.7	2.9	0.213
4-4620	4-5920	0.362	165.0	6.1	-0.08	1.312	79.4	0.705	3.204	25.7	191.7	---	5.464	1.38	0.269	65.1	29.0	3.1	0.215
4-4620	4-5940	0.357	166.1	4.9	-0.27	1.312	79.9	0.705	3.215	24.6	192.3	---	5.482	1.57	0.272	64.1	29.4	3.3	0.217
4-4620	4-5960	0.353	167.1	3.5	-0.52	1.313	80.3	0.706	3.226	23.5	192.9	---	5.502	1.81	0.275	63.2	29.9	3.6	0.219
4-4620	4-5980	0.348	168.0	1.7	-0.86	1.313	80.8	0.706	3.237	22.4	193.4	---	5.521	2.15	0.278	62.4	30.4	3.9	0.222
4-4620	4-6000	0.345	168.7	-0.7	-1.35	1.314	81.2	0.706	3.249	21.2	194.0	---	5.542	2.64	0.281	61.6	30.9	4.5	0.224
4-4620	4-6020	0.342	169.0	-4.2	-2.15	1.314	81.7	0.706	3.261	20.1	194.5	---	5.563	3.43	0.284	60.8	31.5	5.3	0.227
4-4620	4-6040	0.343	168.1	-10.0	-3.64	1.314	82.2	0.706	3.273	18.9	195.0	---	5.584	4.91	0.287	60.0	32.1	6.9	0.230
4-4620	4-6060	0.363	163.1	-22.8	-7.39	1.315	82.7	0.706	3.285	17.8	195.6	---	5.606	8.66	0.290	59.3	32.9	10.8	0.236
4-4620	4-6080	0.731	109.8	-56.4	-32.94	1.315	83.1	0.707	3.298	16.7	196.1	---	5.629	34.21	0.292	58.6	37.6	29.3	0.305
4-4620	4-6100	0.465	204.0	49.8	16.63	1.316	83.7	0.707	3.310	15.3	196.6	---	5.652	-15.37	0.295	58.0	36.3	-13.4	0.252
4-4620	4-6120	0.357	192.8	27.1	7.77	1.316	84.2	0.708	3.323	14.1	197.0	---	5.675	-6.51	0.298	57.3	35.8	-5.0	0.242
4-4620	4-6140	0.335	191.1	18.6	5.37	1.317	84.7	0.708	3.336	12.9	197.5	---	5.699	-4.12	0.301	56.7	36.4	-2.5	0.242
4-4620	4-6160	0.326	191.4	14.0	4.25	1.317	85.2	0.709	3.349	11.6	198.0	---	5.723	-3.01	0.304	56.1	37.2	-1.3	0.244
4-4620	4-6180	0.321	192.4	11.0	3.61	1.318	85.7	0.709	3.363	10.3	198.4	---	5.748	-2.37	0.307	55.6	38.1	-0.5	0.247
4-4620	4-6200	0.317	193.8	8.6	3.19	1.318	86.2	0.710	3.376	9.1	198.9	---	5.773	-1.96	0.309	55.0	39.0	-0.1	0.249
4-4620	4-6220	0.314	195.4	6.7	2.90	1.318	86.8	0.711	3.389	7.8	199.3	---	5.799	-1.67	0.312	54.5	40.0	0.3	0.252
4-4630	4-5010	0.659	153.5	13.6	1.24	1.432	65.2	1.01553.532		49.2	133.5	---	---	0.55	0.621	157.8	55.3	2.7	0.609
4-4630	4-5030	0.649	152.1	14.0	1.22	1.414	65.0	0.97430.735		50.8	136.6	---	---	0.55	0.579	156.4	55.2	2.7	0.568
4-4630	4-5050	0.641	150.9	14.4	1.21	1.398	64.8	0.93913.208		52.2	139.5	---	---	0.55	0.540	154.9	54.9	2.7	0.531
4-4630	4-5070	0.634	149.9	14.8	1.19	1.385	64.6	0.911	8.909	53.5	142.3	---	---	0.55	0.506	153.4	54.7	2.8	0.498
4-4630	4-5090	0.627	149.1	15.1	1.18	1.374	64.5	0.887	6.978	54.5	144.9	---	---	0.55	0.474	151.7	54.3	2.8	0.468
4-4630	4-5110	0.622	148.3	15.3	1.17	1.364	64.4	0.866	5.888	55.5	147.4	---	---	0.55	0.445	149.9	53.9	2.8	0.440
4-4630	4-5130	0.617	147.7	15.5	1.15	1.356	64.4	0.849	5.194	56.3	149.7	---	---	0.55	0.419	148.1	53.5	2.8	0.415
4-4630	4-5150	0.612	147.2	15.6	1.14	1.349	64.3	0.834	4.717	56.9	151.9	---	---	0.55	0.396	146.1	53.0	2.8	0.392
4-4630	4-5170	0.608	146.8	15.7	1.12	1.343	64.3	0.822	4.371	57.5	153.9	---	---	0.55	0.374	144.0	52.4	2.8	0.372
4-4630	4-5190	0.603	146.4	15.8	1.11	1.337	64.4	0.811	4.111	57.9	155.9	---	---	0.56	0.355	141.9	51.7	2.8	0.353
4-4630	4-5210	0.599	146.2	15.9	1.09	1.333	64.4	0.801	3.910	58.2	157.7	---	---	0.56	0.337	139.6	51.0	2.7	0.335
4-4630	4-5230	0.595	146.0	15.9	1.08	1.329	64.5	0.793	3.752	58.4	159.5	---	---	0.56	0.321	137.2	50.2	2.7	0.320
4-4630	4-5250	0.591	145.9	15.9	1.06	1.325	64.6	0.786	3.625	58.5	161.1	---	---	0.56	0.307	134.7	49.3	2.7	0.305
4-4630	4-5270	0.587	145.9	15.9	1.05	1.322	64.7	0.779	3.522	58.6	162.7	---	---	0.57	0.294	132.1	48.4	2.7	0.292
4-4630	4-5290	0.583	145.9	15.9	1.03	1.319	64.8	0.773	3.438	58.5	164.2	---	---	0.57	0.282	129.5	47.5	2.7	0.280
4-4630	4-5310	0.579	146.0	15.9	1.01	1.317	65.0	0.768	3.369	58.4	165.6	---	---	0.58	0.272	126.7	46.4	2.7	0.270
4-4630	4-5330	0.574	146.1	15.8	1.00	1.315	65.2	0.764	3.311	58.2	166.9	---	---	0.58	0.263	123.9	45.4	2.7	0.260
4-4630	4-5350	0.570	146.3	15.7	0.98	1.313	65.4	0.759	3.264	57.9	168.2	---	---	0.59	0.255	121.1	44.3	2.7	0.251
4-4630	4-5370	0.566	146.5	15.6	0.96	1.312	65.6	0.756	3.224	57.6	169.5	---	---	0.59	0.248	118.2	43.2	2.6	0.244
4-4630	4-5390	0.561	146.7	15.5	0.95	1.311	65.8	0.752	3.191	57.2	170.7	---	---	0.60	0.242	115.3	42.0	2.6	0.237
4-4630	4-5410	0.556	147.0	15.4	0.93	1.310	66.0	0.749	3.164	56.8	171.8	---	---	0.61	0.237	112.5	40.9	2.6	0.231
4-4630	4-5430	0.552	147.3	15.3	0.91	1.309	66.3	0.746	3.142	56.4	172.9	---	---	0.62	0.233	109.6	39.7	2.6	0.225
4-4630	4-5450	0.547	147.7	15.1	0.89	1.308	66.5	0.744	3.123	55.9	173.9	---	---	0.62	0.230	106.8	38.6	2.5	0.221
4-4630	4-5470	0.542	148.0	15.0	0.87	1.308	66.8	0.741	3.109	55.3	175.0	---	---	0.63	0.228	104.0	37.5	2.5	0.217
4-4630	4-5490	0.537	148.5	14.8	0.85	1.307	67.1	0.739	3.097	54.7	175.9	---	---	0.64	0.226	101.3	36.4	2.5	0.213
4-4630	4-5510	0.532	148.9	14.6	0.83	1.307	67.4	0.737	3.088	54.1	176.9	---	---	0.65	0.225	98.6	35.3	2.5	0.210
4-4630	4-5530	0.527	149.4	14.4	0.81	1.307	67.7	0.735	3.082	53.4	177.8	---	---	0.67	0.224	96.0	34.3	2.4	0.208
4-4630	4-5550	0.521	149.9	14.2	0.78	1.306	68.0	0.733	3.077	52.7	178.7	---	---	0.68	0.224	93.6	33.4	2.4	0.206
4-4630	4-5570	0.516	150.4	14.0	0.76	1.306	68.3	0.732	3.074	52.0	179.6	---	---	0.69	0.224	91.2	32.5	2.4	0.205
4-4630	4-5590	0.511	151.0	13.8	0.74	1.306	68.6	0.730	3.074	51.3	180.4	---	5.318	0.71	0.225	88.9	31.7	2.4	0.204
4-4630	4-5610	0.505	151.5	13.5	0.71	1.306	69.0	0.729	3.074	50.5	181.2	---	5.314	0.73	0.226	86.7	30.9	2.4	0.203
4-4630	4-5630	0.500	152.1	13.2	0.68	1.306	69.3	0.728	3.076	49.7	182.0	---	5.313	0.74	0.228	84.7	30.2	2.4	0.203
4-4630	4-5650	0.494	152.8	13.0	0.65	1.306	69.7	0.726	3.079	48.9	182.8	---	5.315	0.76	0.230	82.7	29.6	2.4	0.203
4-4630	4-5670	0.488	153.4	12.7	0.62	1.307	70.0	0.725	3.083	48.0	183.5	---	5.318	0.79	0.231	80.8	29.1	2.4	0.203
4-4630	4-5690	0.482	154.1	12.3	0.59	1.307	70.4	0.724	3.088	47.2	184.3	---	5.323	0.81	0.234	79.0	28.7	2.4	0.203
4-4630	4-5710	0.477	154.8	12.0	0.56	1.307	70.8	0.723	3.094	46.3	185.0	---	5.330	0.83	0.236	77.3	28.3	2.4	0.204
4-4630	4-5730	0.471	155.6	11.6	0.52	1.307	71.2	0.722	3.100	45.3	185.7	---	5.338	0.86	0.238	75.7	28.0	2.4	0.205
4-4630	4-5750	0.465	156.3	11.3	0.48	1.308	71.6	0.721	3.107	44.4	186.4	---	5.348	0.89	0.241	74.2	27.8	2.4	0.206
4-4630	4-5770	0.459	157.1	10.9	0.44	1.308	72.0	0.720	3.115	43.5	187.0	---	5.359	0.93	0.244	72.8	27.7	2.5	0.207
4-4630	4-5790	0.453	157.9	10.4	0.39	1.308	72.4	0.719	3.124	42.5	187.7	---	5.371	0.96	0.247	71.4	27.6	2.5	0.208
4-4630	4-5810	0.447	158.7	10.0	0.34	1.309	72.8	0.719	3.133	41.5	188.3	---	5.385	1.01	0.250	70.1	27.6	2.5	0.210
4-4630	4-5830	0.441	159.6	9.5	0.29	1.309	73.2	0.718	3.142	40.5	189.0	---	5.399	1.05	0.253	68.9	27.7	2.6	0.211
4-4630	4-5850	0.435	160.5	8.9	0.23	1.309	73.6	0.717	3.152	39.5	189.6	---	5.414	1.11	0.256	67.8	27.8	2.7	0.213
4-4630	4-5870	0.429	161.4	8.4	0.16	1.310	74.1	0.717	3.163	38.4	190.2	---	5.430	1.16	0.259	66.7	28.1	2.7	0.215
4-4630	4-5890	0.423	162.3	7.8	0.08	1.310	74.5	0.716	3.173	37.4	190.8	---	5.447	1.23	0.262	65.6	28.3	2.8	0.217
4-4630	4-5910	0.417	163.3	7.1	-0.00	1.311	75.0	0.716	3.185	36.3	191.4	---	5.464	1.31	0.265	64.7	28.7	2.9	0.219
4-4630	4-5930	0.411	164.2	6.4	-0.10	1.311	75.4	0.715	3.196	35.2	191.9	---	5.482	1.39	0.268	63.7	29.1	3.0	0.221
4-4630	4-5950	0.405	165.2	5.6	-0.21	1.311	75.9	0.715	3.208	34.1	192.5	---	5.501	1.50	0.271	62.8	29.5	3.1	0.223
4-4630	4-5970	0.399	166.2	4.7	-0.33	1.312	76.3	0.715	3.219	33.0	193.1	---	5.521	1.61	0.274	62.0	30.0	3.3	0.225
4-4630	4-5990	0.393	167.2	3.8	-0.48	1.312	76.8	0.714	3.232	31.9	193.6	---	5.540	1.76	0.277	61.2	30.6	3.4	0.227
4-4630	4-6010	0.388	168.2	2.7	-0.67	1.313	77.3	0.714	3.244	30.7	194.1	---	5.561	1.93	0.280	60.4	31.2	3.6	0.229
4-4630	4-6030	0.382	169.2	1.4	-0.89	1.313	77.7	0.714	3.257	29.6	194.7	---	5.582	2.14	0.283	59.7	31.8	3.9	0.232
4-4630	4-6050	0.377	170.1	-0.0	-1.16	1.314	78.2	0.714	3.269	28.4	195.2	---	5.603	2.41	0.286	59.0	32.5	4.2	0.234
4-4630	4-6070	0.372	171.0	-1.8	-1.52	1.314	78.7	0.714	3.282	27.2	195.7	---	5.625	2.76	0.290	58.3	33.2	4.6	0.236
4-4630	4-6090	0.367	171.6	-4.0	-2.00	1.315	79.2	0.714	3.295	26.0	196.2	---	5.648	3.23	0.293	57.7	34.0	5.1	0.239
4-4630	4-6110	0.364	172.1	-7.0	-2.67	1.315	79.7	0.714	3.309	24.8	196.6	---	5.670	3.90	0.296	57.1	34.8	5.8	0.242
4-4630	4-6130	0.363	171.9	-11.1	-3.71	1.315	80.2	0.714	3.322	23.5	197.1	---	5.694	4.92	0.298	56.5	35.7	6.8	0.245
4-4630	4-6150	0.367	170.5	-17.5	-5.49	1.316	80.7	0.714	3.336	22.3	197.6	---	5.717	6.70	0.301	56.0	36.6	8.6	0.248
4-4630	4-6170	0.392	165.1	-29.1	-9.28	1.316	81.2	0.714	3.349	21.1	198.0	---	5.741	10.48	0.304	55.4	37.7	12.2	0.255
4-4630	4-6190	0.563	137.6	-51.5	-22.48	1.317	81.7	0.714	3.363	19.9	198.5	---	5.766	23.67	0.307	54.9	40.5	22.7	0.285
4-4630	4-6210	1.041	288.3	79.7	50.69	1.317	82.4	0.715	3.377	18.2	198.9	---	5.789	-49.51	0.310	54.4	50.6	-28.1	0.378
4-4630	4-6230	0.451	207.0	43.5	15.22	1.318	82.9	0.715	3.391	17.1	199.4	---	5.815	-14.05	0.313	53.9	42.1	-11.2	0.268
4-4640	4-5000	0.771	154.2	12.9	1.29	1.440	58.7	1.03322.005		61.6	135.0	---	---	0.78	0.642	159.7	54.3	2.8	0.639

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4640	4-5020	0.758	153.0	13.3	1.27	1.420	58.6	0.991	83.637	63.2	138.1	---	---	0.78	0.596	158.4	54.0	2.8	0.595
4-4640	4-5040	0.747	152.1	13.6	1.25	1.403	58.5	0.957	16.669	64.6	141.0	---	---	0.77	0.555	157.0	53.8	2.8	0.555
4-4640	4-5060	0.738	151.2	13.9	1.23	1.389	58.4	0.929	9.961	65.9	143.8	---	---	0.77	0.517	155.5	53.5	2.8	0.519
4-4640	4-5080	0.730	150.5	14.1	1.21	1.376	58.4	0.906	7.432	66.9	146.4	---	---	0.76	0.483	153.9	53.1	2.8	0.487
4-4640	4-5100	0.722	150.0	14.3	1.19	1.366	58.4	0.886	6.115	67.8	148.8	---	---	0.76	0.452	152.2	52.6	2.8	0.458
4-4640	4-5120	0.716	149.5	14.4	1.17	1.357	58.4	0.869	5.313	68.6	151.1	---	---	0.76	0.424	150.4	52.1	2.8	0.432
4-4640	4-5140	0.709	149.1	14.5	1.15	1.349	58.5	0.855	4.777	69.2	153.2	---	---	0.75	0.399	148.4	51.6	2.8	0.408
4-4640	4-5160	0.703	148.8	14.6	1.13	1.342	58.6	0.843	4.397	69.7	155.2	---	---	0.75	0.376	146.4	51.0	2.8	0.386
4-4640	4-5180	0.698	148.5	14.7	1.11	1.336	58.7	0.832	4.116	70.0	157.1	---	---	0.75	0.355	144.2	50.3	2.8	0.366
4-4640	4-5200	0.692	148.4	14.7	1.09	1.331	58.8	0.823	3.902	70.2	158.9	---	---	0.75	0.336	141.9	49.5	2.8	0.348
4-4640	4-5220	0.687	148.3	14.7	1.07	1.327	58.9	0.815	3.734	70.4	160.5	---	---	0.75	0.319	139.5	48.7	2.8	0.332
4-4640	4-5240	0.682	148.3	14.7	1.05	1.323	59.1	0.808	3.601	70.4	162.1	---	---	0.75	0.303	137.0	47.8	2.8	0.317
4-4640	4-5260	0.677	148.3	14.7	1.03	1.320	59.3	0.801	3.494	70.4	163.6	---	---	0.75	0.289	134.4	46.9	2.8	0.303
4-4640	4-5280	0.672	148.3	14.6	1.01	1.317	59.5	0.796	3.407	70.3	165.0	---	---	0.75	0.277	131.6	45.9	2.7	0.291
4-4640	4-5300	0.666	148.4	14.6	0.99	1.315	59.7	0.790	3.336	70.1	166.3	---	---	0.76	0.266	128.8	44.9	2.7	0.280
4-4640	4-5320	0.661	148.6	14.5	0.96	1.313	59.9	0.786	3.277	69.8	167.6	---	---	0.76	0.256	125.9	43.8	2.7	0.270
4-4640	4-5340	0.656	148.7	14.4	0.94	1.311	60.1	0.782	3.228	69.5	168.9	---	---	0.76	0.248	122.9	42.8	2.7	0.261
4-4640	4-5360	0.651	149.0	14.3	0.92	1.310	60.4	0.778	3.188	69.1	170.0	---	---	0.76	0.241	119.9	41.7	2.7	0.253
4-4640	4-5380	0.646	149.2	14.2	0.90	1.308	60.6	0.774	3.155	68.7	171.1	---	---	0.77	0.234	116.9	40.5	2.6	0.246
4-4640	4-5400	0.640	149.5	14.1	0.88	1.307	60.9	0.771	3.128	68.2	172.2	---	---	0.77	0.229	113.8	39.4	2.6	0.240
4-4640	4-5420	0.634	149.8	14.0	0.86	1.306	61.2	0.768	3.105	67.7	173.3	---	---	0.78	0.225	110.8	38.3	2.6	0.235
4-4640	4-5440	0.629	150.1	13.8	0.84	1.306	61.5	0.765	3.087	67.1	174.3	---	---	0.79	0.222	107.8	37.2	2.6	0.230
4-4640	4-5460	0.623	150.5	13.7	0.81	1.305	61.8	0.763	3.073	66.5	175.2	---	---	0.79	0.219	104.8	36.1	2.6	0.226
4-4640	4-5480	0.617	150.9	13.5	0.79	1.305	62.1	0.760	3.062	65.9	175.1	---	---	0.80	0.217	101.9	35.1	2.5	0.222
4-4640	4-5500	0.611	151.3	13.3	0.77	1.304	62.4	0.758	3.053	65.2	177.0	---	---	0.81	0.216	99.1	34.1	2.5	0.219
4-4640	4-5520	0.605	151.7	13.1	0.74	1.304	62.8	0.756	3.047	64.5	177.9	---	---	0.82	0.215	96.4	33.1	2.5	0.217
4-4640	4-5540	0.599	152.1	12.9	0.72	1.304	63.1	0.754	3.043	63.8	178.8	---	---	0.83	0.215	93.8	32.2	2.5	0.215
4-4640	4-5560	0.593	152.6	12.7	0.69	1.304	63.5	0.752	3.041	63.0	179.6	---	---	0.84	0.216	91.3	31.4	2.5	0.213
4-4640	4-5580	0.587	153.1	12.5	0.67	1.304	63.8	0.750	3.041	62.2	180.4	---	5.321	0.85	0.217	88.8	30.6	2.4	0.212
4-4640	4-5600	0.581	153.6	12.3	0.64	1.304	64.2	0.748	3.042	61.4	181.2	---	5.318	0.86	0.218	86.5	29.9	2.4	0.211
4-4640	4-5620	0.575	154.1	12.1	0.61	1.304	64.6	0.747	3.044	60.6	181.9	---	5.317	0.88	0.220	84.4	29.3	2.4	0.211
4-4640	4-5640	0.568	154.7	11.8	0.58	1.304	64.9	0.745	3.048	59.7	182.7	---	5.318	0.89	0.222	82.3	28.8	2.4	0.210
4-4640	4-5660	0.562	155.2	11.6	0.55	1.304	65.3	0.743	3.052	58.8	183.4	---	5.322	0.91	0.224	80.3	28.3	2.4	0.210
4-4640	4-5680	0.556	155.8	11.3	0.52	1.304	65.7	0.742	3.058	57.9	184.1	---	5.327	0.93	0.226	78.5	27.9	2.4	0.211
4-4640	4-5700	0.549	156.4	11.0	0.49	1.305	66.1	0.741	3.064	57.0	184.8	---	5.334	0.95	0.229	76.7	27.6	2.4	0.211
4-4640	4-5720	0.543	157.1	10.7	0.45	1.305	66.5	0.739	3.071	56.1	185.5	---	5.342	0.97	0.232	75.1	27.3	2.4	0.212
4-4640	4-5740	0.536	157.7	10.3	0.42	1.305	66.9	0.738	3.079	55.1	186.1	---	5.352	0.99	0.234	73.5	27.1	2.5	0.213
4-4640	4-5760	0.529	158.4	10.0	0.38	1.306	67.4	0.737	3.088	54.1	186.8	---	5.363	1.02	0.237	72.1	27.0	2.5	0.214
4-4640	4-5780	0.523	159.1	9.6	0.34	1.306	67.8	0.736	3.097	53.2	187.4	---	5.375	1.05	0.240	70.7	27.0	2.5	0.215
4-4640	4-5800	0.516	159.8	9.3	0.29	1.306	68.2	0.735	3.106	52.1	188.0	---	5.388	1.08	0.244	69.4	27.1	2.5	0.216
4-4640	4-5820	0.509	160.5	8.9	0.25	1.307	68.6	0.734	3.117	51.1	188.6	---	5.403	1.11	0.247	68.2	27.2	2.6	0.218
4-4640	4-5840	0.502	161.2	8.5	0.20	1.307	69.1	0.732	3.127	50.1	189.2	---	5.418	1.15	0.250	67.0	27.3	2.6	0.219
4-4640	4-5860	0.495	162.0	8.0	0.15	1.308	69.5	0.732	3.138	49.0	189.8	---	5.434	1.19	0.253	65.9	27.6	2.7	0.221
4-4640	4-5880	0.489	162.8	7.6	0.09	1.308	70.0	0.731	3.149	48.0	190.4	---	5.450	1.23	0.257	64.9	27.9	2.7	0.223
4-4640	4-5900	0.482	163.6	7.1	0.03	1.309	70.4	0.730	3.161	46.9	191.0	---	5.468	1.28	0.260	63.9	28.2	2.8	0.224
4-4640	4-5920	0.475	164.4	6.5	-0.03	1.309	70.9	0.729	3.173	45.8	191.5	---	5.485	1.33	0.263	63.0	28.6	2.9	0.226
4-4640	4-5940	0.468	165.3	6.0	-0.11	1.309	71.4	0.728	3.185	44.7	192.1	---	5.504	1.39	0.266	62.1	29.1	2.9	0.228
4-4640	4-5960	0.461	166.1	5.4	-0.18	1.310	71.8	0.727	3.197	43.6	192.6	---	5.523	1.46	0.270	61.3	29.6	3.0	0.230
4-4640	4-5980	0.454	167.0	4.8	-0.27	1.310	72.3	0.727	3.210	42.4	193.2	---	5.543	1.54	0.273	60.5	30.2	3.1	0.232
4-4640	4-6000	0.447	167.9	4.1	-0.37	1.311	72.8	0.726	3.223	41.3	193.7	---	5.563	1.62	0.276	59.7	30.8	3.2	0.234
4-4640	4-6020	0.441	168.8	3.3	-0.48	1.311	73.3	0.725	3.236	40.1	194.2	---	5.584	1.72	0.279	59.0	31.4	3.3	0.236
4-4640	4-6040	0.434	169.8	2.5	-0.60	1.312	73.8	0.725	3.249	38.9	194.7	---	5.605	1.83	0.283	58.4	32.1	3.5	0.238
4-4640	4-6060	0.427	170.7	1.6	-0.74	1.312	74.3	0.724	3.263	37.7	195.2	---	5.626	1.96	0.286	57.7	32.8	3.6	0.240
4-4640	4-6080	0.421	171.6	0.6	-0.91	1.313	74.8	0.724	3.276	36.5	195.7	---	5.648	2.11	0.289	57.1	33.6	3.8	0.242
4-4640	4-6100	0.414	172.6	-0.4	-1.10	1.313	75.3	0.724	3.290	35.3	196.2	---	5.671	2.29	0.292	56.5	34.4	4.0	0.244
4-4640	4-6120	0.408	173.5	-1.7	-1.32	1.314	75.8	0.723	3.304	34.1	196.7	---	5.693	2.51	0.295	56.0	35.3	4.3	0.247
4-4640	4-6140	0.402	174.4	-3.1	-1.60	1.314	76.3	0.723	3.318	32.9	197.1	---	5.716	2.77	0.298	55.4	36.2	4.5	0.249
4-4640	4-6160	0.396	175.2	-4.8	-1.94	1.315	76.8	0.723	3.332	31.6	197.6	---	5.740	3.10	0.301	54.9	37.1	4.9	0.251
4-4640	4-6180	0.391	175.9	-6.8	-2.38	1.315	77.3	0.722	3.346	30.3	198.0	---	5.763	3.53	0.304	54.5	38.0	5.3	0.254
4-4640	4-6200	0.386	176.4	-9.3	-2.96	1.316	77.9	0.722	3.361	29.1	198.5	---	5.787	4.09	0.307	54.0	39.0	5.9	0.256
4-4640	4-6220	0.383	176.6	-12.5	-3.76	1.316	78.4	0.722	3.375	27.8	198.9	---	5.812	4.88	0.310	53.5	40.0	6.7	0.259
4-4640	4-6240	0.383	176.2	-16.9	-4.95	1.317	78.9	0.722	3.389	26.5	199.4	---	.836	6.06	0.313	53.1	41.1	7.8	0.262
4-4650	4-5010	0.880	154.9	12.3	1.37	1.427	51.7	1.007	82.365	76.3	140.3	---	---	1.03	0.616	160.7	52.7	2.8	0.626
4-4650	4-5030	0.866	154.1	12.6	1.34	1.408	51.7	0.975	23.958	77.7	143.2	---	---	1.02	0.571	159.4	52.4	2.8	0.583
4-4650	4-5050	0.853	153.4	12.8	1.31	1.392	51.8	0.948	11.524	78.9	145.9	---	---	1.01	0.530	158.0	52.0	2.8	0.545
4-4650	4-5070	0.842	152.9	12.9	1.28	1.379	51.9	0.926	8.027	79.9	148.4	---	---	1.00	0.493	156.4	51.6	2.8	0.510
4-4650	4-5090	0.832	152.4	13.1	1.26	1.367	52.0	0.907	6.390	80.7	150.8	---	---	0.99	0.460	154.8	51.1	2.8	0.479
4-4650	4-5110	0.823	152.1	13.2	1.23	1.357	52.2	0.891	5.449	81.3	152.9	---	---	0.98	0.430	153.0	50.6	2.8	0.451
4-4650	4-5130	0.815	151.8	13.3	1.20	1.349	52.3	0.878	4.842	81.8	155.0	---	---	0.97	0.402	151.1	50.0	2.8	0.426
4-4650	4-5150	0.807	151.6	13.3	1.17	1.341	52.5	0.866	4.423	82.2	156.9	---	---	0.96	0.377	149.1	49.3	2.8	0.403
4-4650	4-5170	0.800	151.5	13.3	1.15	1.335	52.7	0.856	4.118	82.4	158.6	---	---	0.95	0.355	147.0	48.6	2.8	0.382
4-4650	4-5190	0.793	151.4	13.3	1.12	1.330	52.9	0.847	3.888	82.6	160.3	---	---	0.95	0.334	144.7	47.8	2.8	0.363
4-4650	4-5210	0.786	151.4	13.3	1.10	1.325	53.1	0.840	3.711	82.6	161.8	---	---	0.94	0.316	142.3	47.0	2.8	0.346
4-4650	4-5230	0.780	151.4	13.3	1.07	1.321	53.3	0.833	3.571	82.5	163.3	---	---	0.94	0.299	139.8	46.1	2.8	0.331
4-4650	4-5250	0.773	151.4	13.2	1.04	1.318	53.6	0.827	3.460	82.4	164.7	---	---	0.93	0.284	137.1	45.1	2.7	0.317
4-4650	4-5270	0.767	151.5	13.2	1.02	1.315	53.8	0.821	3.370	82.2	166.0	---	---	0.93	0.271	134.3	44.2	2.7	0.304
4-4650	4-5290	0.760	151.7	13.1	0.99	1.312	54.1	0.816	3.297	81.9	167.3	---	---	0.93	0.259	131.4	43.1	2.7	0.293
4-4650	4-5310	0.754	151.9	13.0	0.97	1.310	54.4	0.811	3.236	81.5	168.5	---	---	0.93	0.248	128.3	42.1	2.7	0.282
4-4650	4-5330	0.748	152.1	12.9	0.94	1.308	54.7	0.807	3.187	81.1	169.6	---	---	0.93	0.239	125.2	41.0	2.7	0.273
4-4650	4-5350	0.741	152.3	12.8	0.92	1.307	55.0	0.803	3.147	80.7	170.7	---	---	0.93	0.231	122.0	39.9	2.7	0.265

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

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ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4650	4-5370	0.735	152.5	12.7	0.89	1.305	55.3	0.800	3.113	80.2	171.8	---	---	0.93	0.225	118.8	38.8	2.6	0.258
4-4650	4-5390	0.729	152.8	12.6	0.87	1.304	55.6	0.796	3.086	79.6	172.8	---	---	0.93	0.219	115.5	37.8	2.6	0.251
4-4650	4-5410	0.722	153.1	12.4	0.84	1.303	55.9	0.793	3.064	79.0	173.7	---	---	0.93	0.215	112.3	36.7	2.6	0.246
4-4650	4-5430	0.716	153.5	12.3	0.82	1.303	56.3	0.790	3.046	78.4	174.7	---	---	0.93	0.211	109.0	35.6	2.6	0.241
4-4650	4-5450	0.709	153.8	12.1	0.79	1.302	56.6	0.787	3.032	77.7	175.5	---	---	0.94	0.208	105.8	34.6	2.5	0.236
4-4650	4-5470	0.703	154.2	12.0	0.77	1.302	57.0	0.785	3.021	77.0	176.4	---	---	0.94	0.206	102.7	33.6	2.5	0.233
4-4650	4-5490	0.696	154.5	11.8	0.74	1.301	57.3	0.782	3.013	76.3	177.3	---	---	0.94	0.205	99.7	32.7	2.5	0.230
4-4650	4-5510	0.689	154.9	11.6	0.71	1.301	57.7	0.780	3.008	75.6	178.1	---	---	0.95	0.205	96.7	31.8	2.5	0.227
4-4650	4-5530	0.683	155.4	11.4	0.69	1.301	58.1	0.777	3.005	74.8	178.9	---	---	0.96	0.205	93.9	31.0	2.4	0.225
4-4650	4-5550	0.676	155.8	11.2	0.66	1.301	58.5	0.775	3.003	74.0	179.6	---	---	0.96	0.205	91.2	30.2	2.4	0.223
4-4650	4-5570	0.669	156.2	11.0	0.63	1.301	58.9	0.773	3.003	73.1	180.4	---	5.324	0.97	0.207	88.6	29.5	2.4	0.222
4-4650	4-5590	0.662	156.7	10.8	0.60	1.301	59.3	0.771	3.005	72.3	181.1	---	5.321	0.98	0.208	86.2	28.8	2.4	0.221
4-4650	4-5610	0.655	157.2	10.6	0.57	1.301	59.7	0.769	3.008	71.4	181.9	---	5.321	0.99	0.210	83.9	28.3	2.4	0.220
4-4650	4-5630	0.648	157.7	10.4	0.54	1.301	60.1	0.767	3.012	70.5	182.6	---	5.322	1.00	0.212	81.7	27.8	2.4	0.220
4-4650	4-5650	0.641	158.2	10.1	0.51	1.301	60.5	0.765	3.017	69.6	183.2	---	5.326	1.01	0.215	79.6	27.4	2.4	0.220
4-4650	4-5670	0.634	158.7	9.9	0.48	1.302	60.9	0.763	3.023	68.7	183.9	---	5.331	1.02	0.217	77.7	27.0	2.4	0.220
4-4650	4-5690	0.627	159.3	9.6	0.45	1.302	61.3	0.762	3.030	67.7	184.6	---	5.338	1.04	0.220	75.9	26.8	2.4	0.220
4-4650	4-5710	0.620	159.8	9.3	0.42	1.302	61.8	0.760	3.038	66.8	185.2	---	5.347	1.05	0.223	74.1	26.6	2.4	0.221
4-4650	4-5730	0.613	160.4	9.1	0.38	1.303	62.2	0.758	3.047	65.8	185.8	---	5.357	1.07	0.226	72.5	26.4	2.4	0.222
4-4650	4-5750	0.605	161.0	8.8	0.35	1.303	62.6	0.757	3.056	64.8	186.5	---	5.368	1.09	0.230	71.0	26.4	2.4	0.222
4-4650	4-5770	0.598	161.6	8.5	0.31	1.303	63.1	0.755	3.066	63.8	187.1	---	5.381	1.11	0.233	69.6	26.4	2.4	0.223
4-4650	4-5790	0.591	162.2	8.1	0.27	1.304	63.5	0.754	3.076	62.7	187.7	---	5.394	1.13	0.236	68.3	26.5	2.5	0.225
4-4650	4-5810	0.583	162.8	7.8	0.23	1.304	64.0	0.752	3.086	61.7	188.3	---	5.408	1.15	0.240	67.1	26.6	2.5	0.226
4-4650	4-5830	0.576	163.5	7.5	0.19	1.305	64.4	0.751	3.098	60.6	188.8	---	5.423	1.18	0.243	65.9	26.8	2.5	0.227
4-4650	4-5850	0.568	164.1	7.1	0.15	1.305	64.9	0.749	3.109	59.6	189.4	---	5.439	1.21	0.247	64.8	27.1	2.6	0.229
4-4650	4-5870	0.561	164.8	6.7	0.10	1.306	65.4	0.748	3.121	58.5	190.0	---	5.456	1.24	0.250	63.8	27.4	2.6	0.230
4-4650	4-5890	0.553	165.5	6.3	0.05	1.306	65.8	0.747	3.133	57.4	190.5	---	5.473	1.27	0.254	62.8	27.7	2.7	0.232
4-4650	4-5910	0.546	166.2	5.9	-0.00	1.307	66.3	0.746	3.146	56.3	191.1	---	5.491	1.31	0.257	61.9	28.2	2.7	0.233
4-4650	4-5930	0.538	166.9	5.6	-0.06	1.307	66.8	0.745	3.158	55.2	191.6	---	5.510	1.35	0.261	61.0	28.6	2.8	0.235
4-4650	4-5950	0.530	167.7	5.0	-0.11	1.308	67.3	0.743	3.171	54.0	192.1	---	5.529	1.39	0.264	60.2	29.2	2.8	0.237
4-4650	4-5970	0.523	168.4	4.5	-0.18	1.308	67.8	0.742	3.185	52.9	192.7	---	5.548	1.44	0.268	59.4	29.7	2.9	0.238
4-4650	4-5990	0.515	169.2	4.0	-0.24	1.309	68.3	0.741	3.198	51.7	193.2	---	5.569	1.49	0.271	58.7	30.4	3.0	0.240
4-4650	4-6010	0.507	170.0	3.5	-0.32	1.309	68.8	0.740	3.212	50.6	193.7	---	5.589	1.54	0.275	58.0	31.0	3.1	0.242
4-4650	4-6030	0.500	170.8	2.9	-0.40	1.310	69.3	0.739	3.226	49.4	194.2	---	5.610	1.61	0.278	57.4	31.7	3.2	0.244
4-4650	4-6050	0.492	171.6	2.3	-0.48	1.310	69.8	0.738	3.240	48.2	194.7	---	5.631	1.68	0.282	56.8	32.5	3.3	0.246
4-4650	4-6070	0.485	172.5	1.7	-0.58	1.311	70.3	0.737	3.254	47.0	195.2	---	5.653	1.76	0.285	56.2	33.2	3.4	0.248
4-4650	4-6090	0.477	173.3	1.0	-0.68	1.311	70.8	0.737	3.268	45.8	195.7	---	5.675	1.85	0.288	55.6	34.0	3.5	0.250
4-4650	4-6110	0.470	174.2	0.2	-0.79	1.312	71.3	0.736	3.282	44.5	196.1	---	5.697	1.95	0.291	55.1	34.9	3.6	0.252
4-4650	4-6130	0.462	175.1	-0.6	-0.92	1.312	71.8	0.735	3.297	43.3	196.6	---	5.720	2.06	0.295	54.6	35.8	3.7	0.254
4-4650	4-6150	0.455	176.0	-1.5	-1.07	1.313	72.3	0.734	3.311	42.1	197.1	---	5.743	2.19	0.298	54.1	36.7	3.9	0.256
4-4650	4-6170	0.448	176.9	-2.4	-1.24	1.313	72.9	0.734	3.326	40.8	197.5	---	5.766	2.35	0.301	53.7	37.6	4.1	0.258
4-4650	4-6190	0.440	177.8	-3.5	-1.43	1.314	73.4	0.733	3.341	39.5	198.0	---	5.790	2.52	0.304	53.2	38.6	4.3	0.260
4-4650	4-6210	0.433	178.7	-4.7	-1.65	1.314	73.9	0.732	3.356	38.2	198.4	---	5.813	2.73	0.307	52.8	39.6	4.5	0.262
4-4650	4-6230	0.427	179.6	-6.0	-1.92	1.315	74.5	0.732	3.371	36.9	198.8	---	5.838	2.98	0.310	52.4	40.7	4.8	0.264
4-4650	4-6250	0.420	180.4	-7.6	-2.24	1.315	75.0	0.731	3.386	35.6	199.3	---	5.862	3.29	0.313	52.1	41.7	5.1	0.266
4-4660	4-5020	0.995	156.8	11.3	1.50	1.415	44.6	0.99152.683		91.4	146.1	---	---	1.31	0.590	162.2	50.9	2.8	0.616
4-4660	4-5040	0.979	156.3	11.5	1.46	1.397	44.8	0.96614.335		92.5	148.7	---	---	1.29	0.546	160.9	50.5	2.8	0.574
4-4660	4-5060	0.964	155.8	11.6	1.42	1.382	45.0	0.946	8.921	93.3	151.1	---	---	1.27	0.506	159.4	50.0	2.8	0.537
4-4660	4-5080	0.951	155.5	11.7	1.38	1.369	45.3	0.929	6.776	94.0	153.2	---	---	1.25	0.469	157.8	49.5	2.8	0.504
4-4660	4-5100	0.939	155.3	11.8	1.34	1.358	45.5	0.915	5.635	94.5	155.3	---	---	1.23	0.437	156.2	48.9	2.8	0.474
4-4660	4-5120	0.928	155.1	11.8	1.31	1.348	45.8	0.903	4.933	94.8	157.1	---	---	1.21	0.407	154.4	48.2	2.8	0.447
4-4660	4-5140	0.918	155.0	11.8	1.27	1.340	46.1	0.892	4.462	95.0	158.9	---	---	1.20	0.380	152.4	47.5	2.8	0.423
4-4660	4-5160	0.909	154.9	11.8	1.24	1.334	46.3	0.883	4.126	95.1	160.5	---	---	1.18	0.355	150.3	46.8	2.8	0.401
4-4660	4-5180	0.900	154.9	11.8	1.20	1.328	46.6	0.874	3.878	95.1	162.0	---	---	1.17	0.333	148.1	46.0	2.7	0.381
4-4660	4-5200	0.891	155.0	11.8	1.17	1.323	46.9	0.867	3.689	95.0	163.4	---	---	1.15	0.313	145.7	45.1	2.7	0.363
4-4660	4-5220	0.883	155.0	11.7	1.14	1.318	47.2	0.861	3.541	94.8	164.8	---	---	1.14	0.295	143.1	44.2	2.7	0.347
4-4660	4-5240	0.875	155.2	11.6	1.10	1.315	47.6	0.855	3.424	94.6	166.0	---	---	1.13	0.279	140.4	43.3	2.7	0.333
4-4660	4-5260	0.867	155.3	11.6	1.07	1.312	47.9	0.849	3.331	94.2	167.2	---	---	1.12	0.264	137.6	42.3	2.7	0.319
4-4660	4-5280	0.859	155.5	11.5	1.04	1.309	48.2	0.844	3.255	93.8	168.4	---	---	1.11	0.251	134.5	41.3	2.7	0.308
4-4660	4-5300	0.852	155.7	11.4	1.01	1.307	48.6	0.840	3.193	93.4	169.5	---	---	1.11	0.240	131.4	40.2	2.7	0.297
4-4660	4-5320	0.844	155.9	11.3	0.98	1.305	48.9	0.836	3.143	92.9	170.5	---	---	1.10	0.230	128.1	39.2	2.6	0.287
4-4660	4-5340	0.837	156.2	11.1	0.95	1.303	49.3	0.832	3.102	92.3	171.5	---	---	1.09	0.221	124.7	38.1	2.6	0.279
4-4660	4-5360	0.829	156.4	11.0	0.92	1.302	49.7	0.828	3.068	91.7	172.4	---	---	1.09	0.214	121.3	37.1	2.6	0.271
4-4660	4-5380	0.822	156.7	10.9	0.89	1.301	50.1	0.824	3.041	91.1	173.4	---	---	1.08	0.207	117.7	36.0	2.6	0.265
4-4660	4-5400	0.814	157.0	10.7	0.86	1.300	50.4	0.821	3.019	90.4	174.2	---	---	1.08	0.202	114.2	35.0	2.5	0.259
4-4660	4-5420	0.807	157.4	10.6	0.83	1.299	50.8	0.818	3.001	89.7	175.1	---	---	1.08	0.199	110.7	34.0	2.5	0.254
4-4660	4-5440	0.800	157.7	10.4	0.80	1.298	51.2	0.815	2.988	89.0	175.9	---	---	1.07	0.196	107.2	33.0	2.5	0.249
4-4660	4-5460	0.792	158.1	10.3	0.77	1.298	51.6	0.812	2.977	88.2	176.7	---	---	1.07	0.194	103.7	32.1	2.5	0.245
4-4660	4-5480	0.785	158.4	10.1	0.74	1.298	52.0	0.809	2.970	87.4	177.5	---	---	1.07	0.192	100.4	31.2	2.4	0.242
4-4660	4-5500	0.777	158.8	9.9	0.71	1.297	52.5	0.806	2.965	86.6	178.3	---	---	1.07	0.192	97.2	30.4	2.4	0.239
4-4660	4-5520	0.770	159.2	9.7	0.68	1.297	52.9	0.804	2.962	85.8	179.0	---	---	1.07	0.192	94.1	29.6	2.4	0.237
4-4660	4-5540	0.762	159.6	9.5	0.65	1.297	53.3	0.801	2.961	84.9	179.7	---	---	1.08	0.193	91.1	28.9	2.4	0.235
4-4660	4-5560	0.755	160.1	9.3	0.62	1.297	53.7	0.799	2.962	84.0	180.4	---	5.328	1.08	0.194	88.3	28.3	2.4	0.234
4-4660	4-5580	0.747	160.5	9.1	0.59	1.297	54.2	0.796	2.964	83.1	181.1	---	5.325	1.08	0.196	85.7	27.7	2.3	0.233
4-4660	4-5600	0.740	161.0	8.9	0.56	1.298	54.6	0.794	2.968	82.2	181.8	---	5.324	1.09	0.198	83.2	27.2	2.3	0.232
4-4660	4-5620	0.732	161.4	8.7	0.53	1.298	55.1	0.792	2.973	81.3	182.4	---	5.326	1.09	0.201	80.8	26.8	2.3	0.231
4-4660	4-5640	0.724	161.9	8.5	0.50	1.298	55.5	0.790	2.978	80.3	183.1	---	5.330	1.10	0.204	78.6	26.4	2.3	0.231
4-4660	4-5660	0.717	162.4	8.2	0.47	1.298	55.9	0.788	2.985	79.4	183.7	---	5.336	1.11	0.207	76.6	26.1	2.3	0.231
4-4660	4-5680	0.709	162.9	8.0	0.44	1.299	56.4	0.785	2.993	78.4	184.3	---	5.344	1.12	0.210	74.7	25.9	2.3	0.231
4-4660	4-5700	0.701	163.4	7.7	0.40	1.299	56.9	0.783	3.001	77.4	184.9	---	5.352	1.13	0.213	72.9	25.8	2.3	0.232

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4660	4-5720	0.693	163.9	7.5	0.37	1.299	57.3	0.781	3.010	76.4	185.5	---	5.363	1.14	0.217	71.2	25.7	2.3	0.232
4-4660	4-5740	0.685	164.4	7.2	0.34	1.300	57.8	0.780	3.020	75.3	186.1	---	5.374	1.15	0.220	69.7	25.7	2.4	0.233
4-4660	4-5760	0.677	165.0	6.9	0.30	1.300	58.3	0.778	3.030	74.3	186.7	---	5.387	1.16	0.224	68.2	25.7	2.4	0.234
4-4660	4-5780	0.669	165.5	6.7	0.26	1.301	58.7	0.776	3.041	73.3	187.3	---	5.400	1.18	0.228	66.9	25.8	2.4	0.235
4-4660	4-5800	0.661	166.1	6.4	0.23	1.301	59.2	0.774	3.053	72.2	187.9	---	5.415	1.19	0.232	65.6	26.0	2.4	0.236
4-4660	4-5820	0.653	166.7	6.1	0.19	1.302	59.7	0.772	3.064	71.1	188.4	---	5.430	1.21	0.235	64.4	26.2	2.4	0.237
4-4660	4-5840	0.645	167.3	5.8	0.15	1.302	60.2	0.770	3.076	70.0	189.0	---	5.446	1.23	0.239	63.3	26.5	2.5	0.238
4-4660	4-5860	0.637	167.9	5.4	0.11	1.303	60.7	0.769	3.089	68.9	189.5	---	5.463	1.25	0.243	62.3	26.9	2.5	0.239
4-4660	4-5880	0.629	168.5	5.1	0.07	1.303	61.2	0.767	3.102	67.8	190.0	---	5.481	1.27	0.247	61.3	27.3	2.5	0.241
4-4660	4-5900	0.621	169.1	4.7	0.02	1.304	61.7	0.765	3.115	66.7	190.6	---	5.499	1.29	0.251	60.4	27.7	2.6	0.242
4-4660	4-5920	0.613	169.7	4.4	-0.02	1.304	62.1	0.764	3.128	65.6	191.1	---	5.518	1.32	0.254	59.6	28.2	2.6	0.244
4-4660	4-5940	0.605	170.4	4.0	-0.07	1.305	62.7	0.762	3.142	64.4	191.6	---	5.537	1.35	0.258	58.8	28.8	2.7	0.245
4-4660	4-5960	0.596	171.1	3.6	-0.12	1.305	63.2	0.761	3.155	63.2	192.1	---	5.556	1.38	0.262	58.0	29.3	2.7	0.247
4-4660	4-5980	0.588	171.7	3.2	-0.17	1.306	63.7	0.759	3.170	62.1	192.6	---	5.576	1.41	0.266	57.3	30.0	2.8	0.248
4-4660	4-6000	0.580	172.4	2.8	-0.23	1.306	64.2	0.758	3.184	60.9	193.1	---	5.597	1.45	0.269	56.7	30.6	2.9	0.250
4-4660	4-6020	0.572	173.1	2.3	-0.29	1.307	64.7	0.757	3.198	59.7	193.6	---	5.618	1.49	0.273	56.1	31.3	2.9	0.252
4-4660	4-6040	0.563	173.9	1.8	-0.35	1.307	65.2	0.755	3.213	58.5	194.1	---	5.639	1.53	0.276	55.5	32.1	3.0	0.253
4-4660	4-6060	0.555	174.6	1.4	-0.42	1.308	65.7	0.754	3.227	57.3	194.6	---	5.661	1.58	0.280	54.9	32.9	3.1	0.255
4-4660	4-6080	0.547	175.4	0.8	-0.49	1.309	66.3	0.753	3.242	56.1	195.1	---	5.682	1.63	0.283	54.4	33.7	3.2	0.257
4-4660	4-6100	0.539	176.1	0.3	-0.57	1.309	66.8	0.751	3.257	54.9	195.5	---	5.705	1.69	0.287	53.9	34.5	3.3	0.259
4-4660	4-6120	0.530	176.9	-0.3	-0.65	1.310	67.3	0.750	3.272	53.6	196.0	---	5.727	1.76	0.290	53.4	35.4	3.4	0.260
4-4660	4-6140	0.522	177.7	-0.9	-0.74	1.310	67.8	0.749	3.287	52.4	196.5	---	5.750	1.83	0.294	53.0	36.3	3.5	0.262
4-4660	4-6160	0.514	178.6	-1.5	-0.84	1.311	68.4	0.748	3.302	51.1	196.9	---	5.773	1.91	0.297	52.6	37.3	3.6	0.264
4-4660	4-6180	0.506	179.4	-2.2	-0.94	1.311	68.9	0.747	3.318	49.8	197.4	---	5.796	2.00	0.300	52.2	38.3	3.7	0.266
4-4660	4-6200	0.498	180.2	-3.0	-1.06	1.312	69.5	0.746	3.333	48.6	197.8	---	5.820	2.10	0.303	51.8	39.3	3.8	0.268
4-4660	4-6220	0.489	181.1	-3.7	-1.19	1.312	70.0	0.745	3.349	47.3	198.2	---	5.843	2.21	0.306	51.4	40.3	4.0	0.269
4-4660	4-6240	0.481	182.0	-4.6	-1.34	1.313	70.6	0.744	3.364	46.0	198.7	---	5.867	2.34	0.309	51.1	41.3	4.1	0.271
4-4660	4-6260	0.473	182.8	-5.6	-1.50	1.313	71.1	0.743	3.380	44.7	199.1	---	5.891	2.49	0.312	50.8	42.4	4.3	0.273
4-4670	4-5030	1.113	159.4	10.1	1.71	1.403	37.3	0.983	21.235	106.7	152.1	---	---	1.67	0.566	164.1	48.8	2.7	0.611
4-4670	4-5050	1.094	159.2	10.2	1.65	1.386	37.7	0.966	10.505	107.3	154.3	---	---	1.62	0.522	162.8	48.3	2.7	0.570
4-4670	4-5070	1.077	158.9	10.2	1.60	1.371	38.1	0.951	7.396	107.8	156.2	---	---	1.58	0.482	161.3	47.7	2.7	0.534
4-4670	4-5090	1.062	158.8	10.2	1.54	1.359	38.5	0.939	5.928	108.0	158.0	---	---	1.55	0.446	159.8	47.1	2.7	0.502
4-4670	4-5110	1.048	158.7	10.2	1.49	1.349	38.9	0.928	5.081	108.2	159.7	---	---	1.52	0.414	158.1	46.4	2.7	0.473
4-4670	4-5130	1.035	158.7	10.2	1.44	1.340	39.3	0.919	4.534	108.2	161.2	---	---	1.48	0.384	156.2	45.7	2.7	0.447
4-4670	4-5150	1.023	158.7	10.2	1.39	1.332	39.7	0.910	4.156	108.1	162.6	---	---	1.46	0.358	154.2	44.9	2.7	0.424
4-4670	4-5170	1.012	158.8	10.1	1.34	1.326	40.1	0.903	3.882	107.9	164.0	---	---	1.43	0.333	152.1	44.1	2.7	0.403
4-4670	4-5190	1.001	158.9	10.1	1.30	1.320	40.5	0.896	3.676	107.6	165.2	---	---	1.40	0.311	149.7	43.2	2.7	0.384
4-4670	4-5210	0.991	159.0	10.0	1.25	1.316	40.9	0.890	3.517	107.2	166.4	---	---	1.38	0.292	147.2	42.3	2.7	0.367
4-4670	4-5230	0.981	159.2	9.9	1.21	1.312	41.3	0.885	3.393	106.8	167.5	---	---	1.36	0.274	144.5	41.4	2.6	0.352
4-4670	4-5250	0.972	159.4	9.8	1.17	1.309	41.7	0.879	3.294	106.3	168.6	---	---	1.34	0.257	141.6	40.4	2.6	0.338
4-4670	4-5270	0.962	159.6	9.7	1.13	1.306	42.1	0.875	3.215	105.8	169.6	---	---	1.32	0.243	138.6	39.4	2.6	0.325
4-4670	4-5290	0.953	159.8	9.6	1.09	1.303	42.6	0.870	3.151	105.2	170.5	---	---	1.31	0.230	135.3	38.4	2.6	0.314
4-4670	4-5310	0.944	160.1	9.5	1.05	1.301	43.0	0.866	3.099	104.6	171.4	---	---	1.29	0.219	131.8	37.3	2.6	0.304
4-4670	4-5330	0.936	160.4	9.3	1.02	1.299	43.4	0.862	3.057	104.0	172.3	---	---	1.28	0.209	128.3	36.3	2.5	0.295
4-4670	4-5350	0.927	160.7	9.2	0.98	1.298	43.9	0.858	3.022	103.3	173.2	---	---	1.26	0.201	124.5	35.3	2.5	0.287
4-4670	4-5370	0.919	161.0	9.0	0.94	1.297	44.3	0.854	2.995	102.5	174.0	---	---	1.25	0.194	120.7	34.3	2.5	0.281
4-4670	4-5390	0.910	161.3	8.9	0.91	1.296	44.8	0.851	2.972	101.8	174.8	---	---	1.24	0.189	116.8	33.3	2.4	0.274
4-4670	4-5410	0.902	161.6	8.7	0.87	1.295	45.2	0.848	2.955	101.0	175.6	---	---	1.23	0.184	112.9	32.4	2.4	0.269
4-4670	4-5430	0.894	162.0	8.6	0.84	1.295	45.7	0.844	2.941	100.2	176.3	---	---	1.22	0.181	109.0	31.5	2.4	0.264
4-4670	4-5450	0.885	162.4	8.4	0.80	1.294	46.1	0.841	2.931	99.3	177.0	---	---	1.21	0.179	105.2	30.6	2.4	0.260
4-4670	4-5470	0.877	162.7	8.2	0.77	1.294	46.6	0.838	2.924	98.5	177.8	---	---	1.21	0.178	101.4	29.8	2.3	0.257
4-4670	4-5490	0.869	163.1	8.0	0.74	1.294	47.1	0.835	2.920	97.6	178.4	---	---	1.20	0.177	97.8	29.1	2.3	0.254
4-4670	4-5510	0.860	163.5	7.9	0.70	1.293	47.5	0.832	2.917	96.7	179.1	---	---	1.20	0.178	94.4	28.4	2.3	0.251
4-4670	4-5530	0.852	163.9	7.7	0.67	1.293	48.0	0.830	2.917	95.8	179.8	---	---	1.19	0.179	91.1	27.7	2.3	0.249
4-4670	4-5550	0.844	164.3	7.5	0.64	1.293	48.5	0.827	2.918	94.9	180.4	---	5.331	1.19	0.180	88.0	27.2	2.3	0.248
4-4670	4-5570	0.836	164.8	7.3	0.60	1.294	48.9	0.824	2.921	93.9	181.1	---	5.328	1.19	0.182	85.1	26.6	2.3	0.246
4-4670	4-5590	0.827	165.2	7.1	0.57	1.294	49.4	0.822	2.925	92.9	181.7	---	5.328	1.19	0.185	82.3	26.2	2.2	0.245
4-4670	4-5610	0.819	165.6	6.8	0.54	1.294	49.9	0.819	2.930	92.0	182.3	---	5.330	1.19	0.188	79.8	25.8	2.2	0.245
4-4670	4-5630	0.811	166.1	6.6	0.51	1.294	50.4	0.817	2.937	91.0	182.9	---	5.335	1.19	0.191	77.4	25.5	2.2	0.244
4-4670	4-5650	0.802	166.6	6.4	0.47	1.295	50.9	0.814	2.944	90.0	183.5	---	5.341	1.19	0.194	75.2	25.3	2.2	0.244
4-4670	4-5670	0.794	167.0	6.2	0.44	1.295	51.4	0.812	2.952	88.9	184.1	---	5.349	1.19	0.198	73.2	25.1	2.2	0.244
4-4670	4-5690	0.785	167.5	5.9	0.40	1.295	51.8	0.809	2.961	87.9	184.6	---	5.358	1.19	0.202	71.3	25.0	2.2	0.244
4-4670	4-5710	0.777	168.0	5.7	0.37	1.296	52.3	0.807	2.971	86.9	185.2	---	5.369	1.20	0.206	69.6	25.0	2.2	0.244
4-4670	4-5730	0.769	168.5	5.4	0.34	1.296	52.8	0.805	2.981	85.8	185.8	---	5.381	1.20	0.210	67.9	25.0	2.3	0.245
4-4670	4-5750	0.760	169.0	5.2	0.30	1.297	53.3	0.802	2.992	84.7	186.3	---	5.394	1.21	0.214	66.5	25.1	2.3	0.246
4-4670	4-5770	0.752	169.5	4.9	0.27	1.297	53.8	0.800	3.004	83.7	186.9	---	5.408	1.22	0.218	65.1	25.3	2.3	0.246
4-4670	4-5790	0.743	170.0	4.7	0.23	1.298	54.3	0.798	3.016	82.6	187.4	---	5.422	1.23	0.222	63.8	25.5	2.3	0.247
4-4670	4-5810	0.734	170.6	4.4	0.19	1.298	54.9	0.796	3.028	81.5	187.9	---	5.438	1.24	0.226	62.6	25.7	2.3	0.248
4-4670	4-5830	0.726	171.1	4.1	0.16	1.299	55.4	0.794	3.041	80.4	188.4	---	5.454	1.25	0.230	61.5	26.0	2.4	0.249
4-4670	4-5850	0.717	171.6	3.8	0.12	1.299	55.9	0.792	3.054	79.2	189.0	---	5.472	1.26	0.235	60.5	26.4	2.4	0.250
4-4670	4-5870	0.709	172.2	3.5	0.08	1.300	56.4	0.790	3.067	78.1	189.5	---	5.489	1.27	0.239	59.5	26.8	2.4	0.252
4-4670	4-5890	0.700	172.8	3.2	0.04	1.300	56.9	0.788	3.081	77.0	190.0	---	5.508	1.29	0.243	58.6	27.3	2.5	0.253
4-4670	4-5910	0.691	173.4	2.9	-0.00	1.301	57.4	0.786	3.095	75.8	190.5	---	5.527	1.31	0.247	57.8	27.8	2.5	0.254
4-4670	4-5930	0.683	173.9	2.5	-0.04	1.302	57.9	0.784	3.109	74.7	191.0	---	5.546	1.32	0.251	57.0	28.4	2.6	0.255
4-4670	4-5950	0.674	174.5	2.2	-0.09	1.302	58.5	0.782	3.123	73.5	191.5	---	5.566	1.34	0.255	56.3	29.0	2.6	0.257
4-4670	4-5970	0.665	175.2	1.9	-0.13	1.303	59.0	0.780	3.138	72.3	192.0	---	5.586	1.37	0.259	55.6	29.6	2.6	0.258
4-4670	4-5990	0.656	175.8	1.5	-0.18	1.303	59.5	0.778	3.152	71.1	192.5	---	5.606	1.39	0.263	55.0	30.3	2.7	0.260
4-4670	4-6010	0.647	176.4	1.1	-0.23	1.304	60.1	0.777	3.167	69.9	192.9	---	5.627	1.41	0.267	54.4	31.0	2.8	0.261
4-4670	4-6030	0.639	177.1	0.7	-0.28	1.304	60.6	0.775	3.182	68.7	193.4	---	5.649	1.44	0.271	53.8	31.8	2.8	0.263
4-4670	4-6050	0.630	177.7	0.3	-0.33	1.305	61.1	0.773	3.198	67.5	193.9	---	5.670	1.47	0.274	53.3	32.6	2.9	0.264

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4670	4-6070	0.621	178.4	-0.1	-0.39	1.306	61.7	0.772	3.213	66.3	194.4	---	5.692	1.51	0.278	52.8	33.4	2.9	0.266
4-4670	4-6090	0.612	179.1	-0.5	-0.44	1.306	62.2	0.770	3.229	65.0	194.8	---	5.714	1.54	0.282	52.4	34.2	3.0	0.267
4-4670	4-6110	0.603	179.8	-1.0	-0.50	1.307	62.8	0.768	3.244	63.8	195.3	---	5.737	1.58	0.285	51.9	35.1	3.1	0.269
4-4670	4-6130	0.594	180.5	-1.4	-0.57	1.307	63.3	0.767	3.260	62.6	195.7	---	5.760	1.63	0.289	51.5	36.0	3.2	0.270
4-4670	4-6150	0.586	181.2	-1.9	-0.64	1.308	63.9	0.765	3.276	61.3	196.2	---	5.782	1.67	0.292	51.2	37.0	3.2	0.272
4-4670	4-6170	0.577	182.0	-2.4	-0.71	1.308	64.4	0.764	3.291	60.0	196.6	---	5.806	1.73	0.296	50.8	38.0	3.3	0.273
4-4670	4-6190	0.568	182.7	-3.0	-0.79	1.309	65.0	0.762	3.307	58.7	197.1	---	5.829	1.78	0.299	50.4	39.0	3.4	0.275
4-4670	4-6210	0.559	183.5	-3.5	-0.87	1.310	65.5	0.761	3.323	57.5	197.5	---	5.852	1.85	0.302	50.1	40.0	3.5	0.277
4-4670	4-6230	0.550	184.3	-4.1	-0.96	1.310	66.1	0.760	3.339	56.2	198.0	---	5.876	1.92	0.305	49.8	41.0	3.6	0.278
4-4670	4-6250	0.541	185.1	-4.8	-1.06	1.311	66.7	0.758	3.355	54.9	198.4	---	5.900	2.00	0.309	49.5	42.1	3.7	0.280
4-4670	4-6270	0.533	185.9	-5.4	-1.17	1.311	67.2	0.757	3.371	53.5	198.8	---	5.924	2.08	0.312	49.3	43.2	3.8	0.282
4-4680	4-5040	1.231	162.7	8.6	2.06	1.392	29.9	0.98314.021		121.9	158.1	---	---	2.14	0.544	166.5	46.5	2.7	0.610
4-4680	4-5060	1.209	162.6	8.6	1.96	1.376	30.5	0.971	8.525	122.0	159.8	---	---	2.06	0.500	165.2	46.0	2.7	0.571
4-4680	4-5080	1.190	162.5	8.6	1.88	1.362	31.0	0.961	6.432	122.0	161.2	---	---	2.00	0.461	163.8	45.3	2.7	0.536
4-4680	4-5100	1.173	162.6	8.6	1.80	1.350	31.6	0.952	5.338	121.8	162.6	---	---	1.93	0.425	162.3	44.6	2.7	0.505
4-4680	4-5120	1.157	162.6	8.5	1.72	1.340	32.1	0.945	4.672	121.6	163.9	---	---	1.88	0.393	160.6	43.9	2.6	0.477
4-4680	4-5140	1.142	162.7	8.5	1.65	1.332	32.7	0.938	4.228	121.2	165.0	---	---	1.82	0.363	158.7	43.1	2.6	0.452
4-4680	4-5160	1.128	162.9	8.4	1.58	1.325	33.2	0.931	3.915	120.8	166.1	---	---	1.78	0.337	156.7	42.2	2.6	0.429
4-4680	4-5180	1.115	163.0	8.3	1.51	1.319	33.7	0.925	3.684	120.3	167.2	---	---	1.73	0.312	154.5	41.4	2.6	0.409
4-4680	4-5200	1.103	163.2	8.2	1.45	1.314	34.2	0.920	3.509	119.8	168.2	---	---	1.69	0.290	152.1	40.5	2.6	0.391
4-4680	4-5220	1.091	163.4	8.1	1.39	1.309	34.8	0.915	3.374	119.2	169.1	---	---	1.65	0.270	149.5	39.5	2.6	0.374
4-4680	4-5240	1.080	163.7	8.0	1.34	1.305	35.3	0.910	3.267	118.5	170.0	---	---	1.61	0.252	146.7	38.6	2.5	0.360
4-4680	4-5260	1.069	163.9	7.8	1.28	1.302	35.8	0.905	3.182	117.9	170.9	---	---	1.58	0.236	143.6	37.6	2.5	0.346
4-4680	4-5280	1.058	164.2	7.7	1.23	1.300	36.3	0.901	3.114	117.1	171.7	---	---	1.55	0.222	140.3	36.6	2.5	0.335
4-4680	4-5300	1.048	164.5	7.6	1.18	1.297	36.8	0.897	3.059	116.4	172.5	---	---	1.52	0.209	136.7	35.6	2.5	0.324
4-4680	4-5320	1.038	164.8	7.4	1.13	1.296	37.3	0.893	3.015	115.6	173.2	---	---	1.50	0.198	132.9	34.6	2.4	0.315
4-4680	4-5340	1.028	165.1	7.3	1.08	1.294	37.8	0.889	2.979	114.8	174.0	---	---	1.47	0.188	128.9	33.7	2.4	0.306
4-4680	4-5360	1.018	165.5	7.1	1.04	1.293	38.4	0.885	2.950	114.0	174.7	---	---	1.45	0.181	124.8	32.7	2.4	0.299
4-4680	4-5380	1.009	165.8	6.9	0.99	1.292	38.9	0.882	2.927	113.1	175.4	---	---	1.43	0.174	120.5	31.8	2.3	0.292
4-4680	4-5400	0.999	166.2	6.8	0.95	1.291	39.4	0.878	2.910	112.2	176.0	---	---	1.41	0.169	116.1	30.9	2.3	0.287
4-4680	4-5420	0.990	166.5	6.6	0.91	1.290	39.9	0.875	2.896	111.3	176.7	---	---	1.39	0.165	111.7	30.1	2.3	0.282
4-4680	4-5440	0.981	166.9	6.4	0.87	1.290	40.4	0.872	2.886	110.4	177.3	---	---	1.37	0.163	107.3	29.3	2.3	0.277
4-4680	4-5460	0.971	167.3	6.2	0.83	1.290	40.9	0.869	2.878	109.5	178.0	---	---	1.36	0.161	103.1	28.5	2.2	0.274
4-4680	4-5480	0.962	167.7	6.0	0.79	1.289	41.5	0.865	2.874	108.5	178.6	---	---	1.34	0.161	98.9	27.8	2.2	0.270
4-4680	4-5500	0.953	168.1	5.9	0.75	1.289	42.0	0.862	2.872	107.6	179.2	---	---	1.33	0.161	95.0	27.2	2.2	0.268
4-4680	4-5520	0.944	168.5	5.7	0.71	1.289	42.5	0.859	2.872	106.6	179.8	---	---	1.32	0.162	91.2	26.6	2.2	0.265
4-4680	4-5540	0.935	168.9	5.5	0.67	1.289	43.0	0.856	2.873	105.6	180.4	---	5.334	1.31	0.164	87.7	26.1	2.2	0.263
4-4680	4-5560	0.926	169.3	5.3	0.64	1.289	43.5	0.854	2.876	104.6	181.0	---	5.332	1.30	0.167	84.4	25.7	2.2	0.262
4-4680	4-5580	0.917	169.8	5.0	0.60	1.290	44.1	0.851	2.881	103.6	181.5	---	5.332	1.29	0.170	81.4	25.3	2.1	0.261
4-4680	4-5600	0.908	170.2	4.8	0.56	1.290	44.6	0.848	2.887	102.5	182.1	---	5.334	1.28	0.173	78.5	25.0	2.1	0.260
4-4680	4-5620	0.899	170.6	4.6	0.53	1.290	45.1	0.845	2.894	101.5	182.6	---	5.339	1.28	0.177	76.0	24.7	2.1	0.259
4-4680	4-5640	0.890	171.1	4.4	0.49	1.291	45.6	0.842	2.901	100.5	183.2	---	5.345	1.27	0.181	73.6	24.5	2.1	0.259
4-4680	4-5660	0.881	171.5	4.2	0.46	1.291	46.2	0.840	2.910	99.4	183.7	---	5.354	1.27	0.185	71.4	24.4	2.1	0.258
4-4680	4-5680	0.872	172.0	3.9	0.42	1.291	46.7	0.837	2.920	98.3	184.3	---	5.363	1.27	0.189	69.4	24.4	2.1	0.258
4-4680	4-5700	0.863	172.5	3.7	0.38	1.292	47.2	0.834	2.930	97.2	184.8	---	5.374	1.26	0.193	67.5	24.4	2.1	0.259
4-4680	4-5720	0.854	172.9	3.5	0.35	1.292	47.8	0.832	2.941	96.2	185.3	---	5.387	1.26	0.198	65.8	24.5	2.2	0.259
4-4680	4-5740	0.845	173.4	3.2	0.31	1.293	48.3	0.829	2.952	95.1	185.8	---	5.400	1.26	0.202	64.3	24.6	2.2	0.259
4-4680	4-5760	0.836	173.9	3.0	0.28	1.293	48.8	0.827	2.964	93.9	186.3	---	5.414	1.26	0.207	62.9	24.8	2.2	0.260
4-4680	4-5780	0.827	174.4	2.7	0.24	1.294	49.4	0.824	2.976	92.8	186.9	---	5.430	1.27	0.211	61.6	25.0	2.2	0.260
4-4680	4-5800	0.818	174.9	2.5	0.21	1.295	49.9	0.822	2.989	91.7	187.4	---	5.446	1.27	0.216	60.4	25.3	2.2	0.261
4-4680	4-5820	0.809	175.4	2.2	0.17	1.295	50.4	0.819	3.002	90.6	187.9	---	5.463	1.27	0.221	59.2	25.6	2.3	0.262
4-4680	4-5840	0.800	175.9	1.9	0.13	1.296	51.0	0.817	3.016	89.4	188.4	---	5.480	1.28	0.225	58.2	26.0	2.3	0.263
4-4680	4-5860	0.791	176.5	1.7	0.10	1.296	51.5	0.815	3.030	88.3	188.8	---	5.498	1.28	0.230	57.3	26.5	2.3	0.264
4-4680	4-5880	0.781	177.0	1.4	0.06	1.297	52.1	0.812	3.044	87.1	189.3	---	5.517	1.29	0.234	56.4	27.0	2.3	0.265
4-4680	4-5900	0.772	177.5	1.1	0.02	1.297	52.6	0.810	3.059	86.0	189.8	---	5.536	1.30	0.239	55.6	27.5	2.4	0.266
4-4680	4-5920	0.763	178.1	0.8	-0.02	1.298	53.2	0.808	3.073	84.8	190.3	---	5.556	1.31	0.243	54.9	28.1	2.4	0.267
4-4680	4-5940	0.754	178.6	0.5	-0.06	1.299	53.7	0.806	3.088	83.6	190.8	---	5.576	1.32	0.247	54.2	28.7	2.5	0.268
4-4680	4-5960	0.745	179.2	0.2	-0.10	1.299	54.3	0.803	3.103	82.4	191.3	---	5.596	1.33	0.251	53.5	29.3	2.5	0.270
4-4680	4-5980	0.735	179.8	-0.1	-0.14	1.300	54.8	0.801	3.119	81.2	191.7	---	5.617	1.35	0.256	52.9	30.0	2.6	0.271
4-4680	4-6000	0.726	180.4	-0.5	-0.18	1.300	55.4	0.799	3.134	80.0	192.2	---	5.638	1.36	0.260	52.4	30.7	2.6	0.272
4-4680	4-6020	0.717	180.9	-0.8	-0.23	1.301	55.9	0.797	3.150	78.8	192.7	---	5.660	1.38	0.264	51.8	31.5	2.7	0.273
4-4680	4-6040	0.708	181.6	-1.1	-0.27	1.302	56.5	0.795	3.165	77.6	193.1	---	5.681	1.40	0.268	51.4	32.3	2.7	0.275
4-4680	4-6060	0.698	182.2	-1.5	-0.32	1.302	57.0	0.793	3.181	76.3	193.6	---	5.703	1.42	0.272	50.9	33.1	2.8	0.276
4-4680	4-6080	0.689	182.8	-1.8	-0.37	1.303	57.6	0.791	3.197	75.1	194.0	---	5.726	1.44	0.276	50.5	34.0	2.8	0.277
4-4680	4-6100	0.680	183.4	-2.2	-0.42	1.304	58.1	0.789	3.213	73.8	194.5	---	5.748	1.47	0.279	50.1	34.9	2.9	0.279
4-4680	4-6120	0.670	184.1	-2.6	-0.47	1.304	58.7	0.787	3.229	72.6	194.9	---	5.771	1.49	0.283	49.7	35.8	2.9	0.280
4-4680	4-6140	0.661	184.7	-3.0	-0.52	1.305	59.3	0.785	3.246	71.3	195.4	---	5.794	1.52	0.287	49.4	36.7	3.0	0.281
4-4680	4-6160	0.652	185.4	-3.4	-0.58	1.305	59.8	0.783	3.262	70.0	195.8	---	5.817	1.56	0.290	49.1	37.7	3.1	0.283
4-4680	4-6180	0.642	186.1	-3.9	-0.64	1.306	60.4	0.781	3.278	68.8	196.3	---	5.840	1.59	0.294	48.8	38.7	3.2	0.284
4-4680	4-6200	0.633	186.8	-4.3	-0.70	1.306	61.0	0.780	3.295	67.5	196.7	---	5.864	1.63	0.297	48.5	39.7	3.2	0.286
4-4680	4-6220	0.624	187.5	-4.8	-0.76	1.307	61.6	0.778	3.312	66.2	197.1	---	5.888	1.67	0.301	48.2	40.8	3.3	0.287
4-4680	4-6240	0.614	188.2	-5.3	-0.83	1.308	62.1	0.776	3.328	64.9	197.6	---	5.911	1.72	0.304	48.0	41.9	3.4	0.288
4-4680	4-6260	0.605	188.9	-5.8	-0.91	1.308	62.7	0.775	3.345	63.6	198.0	---	5.935	1.77	0.307	47.7	42.9	3.5	0.290
4-4680	4-6280	0.595	189.7	-6.3	-0.98	1.309	63.3	0.773	3.361	62.2	198.4	---	5.960	1.82	0.311	47.5	44.1	3.6	0.291
4-4690	4-5050	1.348	166.3	7.0	2.66	1.383	22.5	0.98710.990		136.9	164.0	---	---	2.86	0.526	169.4	44.3	2.6	0.615
4-4690	4-5070	1.324	166.4	6.9	2.50	1.367	23.2	0.980	7.383	136.4	165.0	---	---	2.72	0.482	168.2	43.6	2.6	0.576
4-4690	4-5090	1.302	166.5	6.9	2.35	1.354	23.9	0.974	5.804	135.9	166.0	---	---	2.60	0.442	166.8	42.9	2.6	0.562
4-4690	4-5110	1.283	166.7	6.8	2.22	1.342	24.6	0.968	4.927	135.3	166.9	---	---	2.48	0.406	165.4	42.2	2.6	0.511
4-4690	4-5130	1.265	166.8	6.7	2.10	1.333	25.3	0.962	4.374	134.6	167.8	---	---	2.38	0.374	163.7	41.4	2.5	0.484
4-4690	4-5150	1.248	167.0	6.6	1.99	1.325	26.0	0.957	3.998	133.9	168.6	---	---	2.29	0.344	161.9	40.5	2.5	0.460

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= JUPITER

DEPARTURE PLANET= EARTH
ARRIVAL PLANET=JUPITER

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

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

EARTH-CERES TRAJECTORY DATA

FOR THE YEARS 1970-1980

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 700	4-1360	0.622	32.7	-3.3	-9.16	1.196	119.2	0.620	1.791	279.0	563.2	0.681	2.902	-8.09	0.471	60.4	212.7	-10.0	0.332
4- 700	4-1380	0.660	34.6	-2.6	-9.90	1.198	121.2	0.641	1.804	275.0	564.1	0.647	2.960	-8.30	0.476	57.7	215.5	-9.4	0.356
4- 700	4-1400	0.701	36.6	-1.7	-10.69	1.199	123.4	0.665	1.817	270.7	564.8	0.609	3.024	-8.59	0.481	54.9	218.7	-8.9	0.381
4- 710	4- 990	0.730	7.0	57.4	27.58	1.267	111.7	0.683	2.639	305.5	496.5	0.837	---	-36.47	0.581	133.0	229.6	-26.4	0.568
4- 710	4-1010	0.581	7.0	44.6	17.60	1.247	110.1	0.634	2.332	307.1	501.7	0.853	---	-26.74	0.540	128.1	233.7	-23.7	0.477
4- 710	4-1030	0.497	8.6	34.4	11.55	1.232	108.9	0.596	2.144	308.3	506.9	0.865	---	-20.94	0.508	123.1	235.7	-21.7	0.411
4- 710	4-1050	0.447	10.5	26.3	7.54	1.220	107.9	0.567	2.020	309.3	512.0	0.875	---	-17.18	0.484	118.1	236.5	-20.5	0.360
4- 710	4-1070	0.416	12.3	19.6	4.69	1.211	107.1	0.544	1.935	310.1	516.9	0.882	---	-14.58	0.465	113.1	236.2	-19.8	0.318
4- 710	4-1090	0.397	14.0	14.0	2.53	1.204	106.6	0.527	1.876	310.6	521.7	0.887	---	-12.70	0.452	108.3	235.1	-19.3	0.285
4- 710	4-1110	0.385	15.7	9.4	0.84	1.199	106.3	0.515	1.834	310.8	526.3	0.889	---	-11.28	0.443	103.7	233.2	-19.0	0.258
4- 710	4-1130	0.380	17.4	5.6	-0.53	1.196	106.1	0.507	1.804	310.7	530.7	0.890	---	-10.19	0.438	99.3	230.5	-18.8	0.237
4- 710	4-1150	0.379	19.0	2.5	-1.69	1.193	106.1	0.501	1.784	310.3	534.8	0.890	---	-9.34	0.435	95.2	227.2	-18.5	0.222
4- 710	4-1170	0.383	20.7	0.1	-2.68	1.191	106.2	0.499	1.770	309.7	538.7	0.887	---	-8.66	0.435	91.3	223.5	-18.0	0.212
4- 710	4-1190	0.389	22.4	-1.9	-3.55	1.190	106.5	0.499	1.762	308.7	542.3	0.882	2.642	-8.11	0.436	87.7	219.8	-17.2	0.207
4- 710	4-1210	0.399	24.1	-3.3	-4.33	1.190	107.0	0.502	1.758	307.4	545.7	0.876	2.640	-7.67	0.439	84.3	216.4	-16.3	0.207
4- 710	4-1230	0.411	25.8	-4.4	-5.04	1.189	107.6	0.506	1.757	305.8	548.8	0.868	2.647	-7.32	0.442	81.2	213.6	-15.3	0.211
4- 710	4-1250	0.425	27.6	-5.0	-5.70	1.190	108.3	0.513	1.759	303.9	551.7	0.857	2.661	-7.05	0.447	78.2	211.5	-14.2	0.219
4- 710	4-1270	0.442	29.4	-5.4	-6.33	1.190	109.2	0.521	1.763	301.8	554.3	0.845	2.682	-6.84	0.451	75.4	210.2	-13.1	0.229
4- 710	4-1290	0.462	31.2	-5.4	-6.92	1.191	110.2	0.531	1.769	299.3	556.7	0.830	2.709	-6.68	0.457	72.7	209.8	-12.1	0.242
4- 710	4-1310	0.484	33.0	-5.2	-7.50	1.192	111.4	0.543	1.777	296.6	558.9	0.812	2.742	-6.58	0.462	70.2	210.1	-11.2	0.257
4- 710	4-1330	0.508	34.8	-4.8	-8.06	1.193	112.7	0.557	1.786	293.5	560.7	0.792	2.780	-6.53	0.467	67.7	211.2	-10.3	0.273
4- 710	4-1350	0.536	36.7	-4.3	-8.63	1.195	114.1	0.572	1.796	290.2	562.4	0.768	2.824	-6.53	0.472	65.2	212.8	-9.6	0.292
4- 710	4-1370	0.566	38.5	-3.5	-9.19	1.196	115.8	0.590	1.807	286.6	563.7	0.741	2.872	-6.57	0.477	62.7	215.0	-9.0	0.312
4- 710	4-1390	0.600	40.5	-2.6	-9.78	1.197	117.6	0.609	1.819	282.8	564.8	0.711	2.927	-6.67	0.481	60.3	217.6	-8.4	0.333
4- 710	4-1410	0.637	42.4	-1.7	-10.38	1.199	119.7	0.630	1.832	278.6	565.6	0.677	2.986	-6.82	0.486	57.7	220.7	-7.9	0.356
4- 720	4-1020	0.743	5.1	70.2	32.22	1.246	107.6	0.620	2.338	313.2	500.7	0.888	---	-41.81	0.543	127.0	229.2	-31.9	0.547
4- 720	4-1040	0.519	7.3	50.3	17.22	1.231	106.3	0.581	2.153	314.9	506.0	0.901	---	-27.01	0.512	122.1	235.8	-27.1	0.432
4- 720	4-1060	0.424	11.4	35.2	9.65	1.219	105.3	0.552	2.030	316.1	511.3	0.910	---	-19.63	0.488	117.2	238.1	-23.6	0.364
4- 720	4-1080	0.379	14.8	24.0	5.19	1.211	104.6	0.529	1.947	317.0	516.3	0.917	---	-15.36	0.471	112.4	238.5	-21.4	0.316
4- 720	4-1100	0.356	17.5	15.4	2.25	1.204	104.1	0.512	1.888	317.6	521.2	0.921	---	-12.63	0.458	107.7	237.7	-20.0	0.280
4- 720	4-1120	0.345	19.9	9.0	0.16	1.199	103.7	0.500	1.847	317.9	525.9	0.924	---	-10.75	0.450	103.3	235.9	-19.0	0.251
4- 720	4-1140	0.342	22.0	4.0	-1.42	1.195	103.6	0.491	1.818	317.8	530.4	0.924	---	-9.39	0.445	99.1	233.3	-18.2	0.230
4- 720	4-1160	0.343	24.0	0.3	-2.66	1.193	103.6	0.486	1.798	317.5	534.6	0.924	---	-8.37	0.442	95.1	230.0	-17.4	0.214
4- 720	4-1180	0.347	25.9	-2.5	-3.67	1.191	103.7	0.484	1.784	316.8	538.5	0.921	---	-7.58	0.442	91.4	226.3	-16.6	0.204
4- 720	4-1200	0.354	27.7	-4.6	-4.53	1.190	104.0	0.483	1.776	315.9	542.2	0.918	2.635	-6.96	0.443	88.0	222.6	-15.7	0.199
4- 720	4-1220	0.363	29.6	-6.0	-5.27	1.190	104.5	0.485	1.773	314.6	545.6	0.912	2.633	-6.48	0.446	84.8	219.1	-14.6	0.198
4- 720	4-1240	0.375	31.4	-6.9	-5.92	1.189	105.0	0.489	1.772	313.0	548.8	0.905	2.639	-6.09	0.449	81.8	216.2	-13.5	0.202
4- 720	4-1260	0.389	33.2	-7.4	-6.50	1.190	105.7	0.495	1.774	311.1	551.7	0.896	2.652	-5.78	0.454	79.0	214.1	-12.4	0.208
4- 720	4-1280	0.404	35.0	-7.5	-7.04	1.190	106.5	0.502	1.778	309.0	554.4	0.885	2.671	-5.53	0.458	76.4	212.8	-11.4	0.218
4- 720	4-1300	0.422	36.8	-7.3	-7.54	1.191	107.5	0.511	1.784	306.5	556.8	0.872	2.697	-5.34	0.463	73.9	212.3	-10.4	0.230
4- 720	4-1320	0.442	38.7	-6.9	-8.02	1.192	108.6	0.522	1.792	303.8	559.0	0.857	2.727	-5.20	0.468	71.5	212.6	-9.5	0.244
4- 720	4-1340	0.465	40.5	-6.2	-8.47	1.193	109.8	0.534	1.801	300.9	561.0	0.839	2.763	-5.11	0.473	69.1	213.6	-8.7	0.259
4- 720	4-1360	0.489	42.4	-5.4	-8.91	1.195	111.2	0.548	1.811	297.6	562.7	0.819	2.803	-5.05	0.478	66.9	215.2	-8.0	0.276
4- 720	4-1380	0.517	44.2	-4.4	-9.35	1.196	112.7	0.564	1.822	294.1	564.1	0.795	2.849	-5.03	0.482	64.6	217.2	-7.4	0.295
4- 720	4-1400	0.547	46.1	-3.3	-9.79	1.197	114.4	0.581	1.834	290.4	565.3	0.768	2.899	-5.05	0.486	62.4	219.8	-6.9	0.314
4- 720	4-1420	0.580	48.1	-2.1	-10.24	1.199	116.2	0.600	1.847	286.3	566.3	0.738	2.955	-5.11	0.490	60.1	222.7	-6.5	0.335
4- 730	4- 970	0.613	53.7	-29.3	-23.07	1.319	108.6	0.790	4.267	317.6	482.8	0.896	---	13.45	0.692	139.3	240.2	10.1	0.598
4- 730	4- 990	0.704	61.9	-36.6	-28.27	1.287	106.8	0.710	3.137	319.3	488.5	0.911	---	18.52	0.631	134.9	240.2	15.3	0.538
4- 730	4-1010	0.848	78.9	-43.4	-39.50	1.262	105.1	0.647	2.620	321.1	494.2	0.924	---	29.63	0.582	130.2	237.0	25.0	0.520
4- 730	4-1050	0.871	329.0	86.4	42.65	1.229	103.8	0.567	2.153	321.3	505.6	0.932	---	-52.77	0.514	121.1	224.8	-37.4	0.578
4- 730	4-1070	0.455	6.0	53.7	15.88	1.218	102.7	0.537	2.034	323.2	510.9	0.942	---	-26.14	0.492	116.2	237.6	-29.9	0.389
4- 730	4-1090	0.348	15.0	30.6	6.38	1.210	102.0	0.515	1.953	324.3	516.1	0.948	---	-16.77	0.475	111.5	240.2	-23.8	0.316
4- 730	4-1110	0.317	20.2	15.6	1.76	1.203	101.5	0.498	1.896	324.9	521.1	0.952	---	-12.28	0.463	107.0	239.9	-20.2	0.272
4- 730	4-1130	0.309	23.8	5.9	-0.97	1.198	101.2	0.486	1.856	325.2	525.9	0.954	---	-9.69	0.455	102.7	238.2	-18.0	0.242
4- 730	4-1150	0.308	26.5	-0.4	-2.78	1.195	101.1	0.478	1.828	325.2	530.4	0.954	---	-8.03	0.450	98.6	235.6	-16.4	0.220
4- 730	4-1170	0.312	28.8	-4.7	-4.08	1.193	101.1	0.473	1.809	324.9	534.6	0.953	---	-6.87	0.448	94.8	232.3	-15.1	0.205
4- 730	4-1190	0.318	30.9	-7.6	-5.07	1.191	101.3	0.470	1.796	324.2	538.6	0.951	---	-6.03	0.448	91.3	228.6	-14.0	0.195
4- 730	4-1210	0.326	32.9	-9.5	-5.85	1.190	101.6	0.470	1.789	323.2	542.3	0.948	2.629	-5.40	0.450	88.0	224.8	-12.9	0.190
4- 730	4-1230	0.335	34.8	-10.7	-6.50	1.190	102.0	0.471	1.785	321.9	545.7	0.944	2.627	-4.92	0.452	85.0	221.3	-11.8	0.189
4- 730	4-1250	0.346	36.7	-11.2	-7.05	1.190	102.5	0.475	1.785	320.3	548.9	0.937	2.633	-4.54	0.456	82.1	218.5	-10.7	0.193
4- 730	4-1270	0.359	38.5	-11.3	-7.52	1.190	103.2	0.480	1.787	318.4	551.8	0.930	2.645	-4.24	0.460	79.5	216.4	-9.6	0.199
4- 730	4-1290	0.373	40.4	-11.0	-7.95	1.190	104.0	0.486	1.792	316.2	554.5	0.921	2.663	-4.00	0.464	77.0	215.1	-8.7	0.209
4- 730	4-1310	0.389	42.2	-10.4	-8.33	1.191	104.9	0.494	1.798	313.8	557.0	0.910	2.687	-3.81	0.469	74.7	214.6	-7.9	0.220
4- 730	4-1330	0.407	44.1	-9.6	-8.68	1.192	105.9	0.504	1.806	311.1	559.2	0.896	2.716	-3.67	0.474	72.5	214.9	-7.1	0.233
4- 730	4-1350	0.426	45.9	-8.6	-9.01	1.193	107.1	0.515	1.815	308.1	561.2	0.881	2.750	-3.56	0.478	70.3	215.9	-6.5	0.248
4- 730	4-1370	0.448	47.8	-7.4	-9.33	1.195	108.4	0.527	1.826	304.9	563.0	0.863	2.788	-3.48	0.483	68.2	217.4	-5.9	0.264
4- 730	4-1390	0.472	49.7	-6.1	-9.63	1.196	109.8	0.541	1.837	301.5	564.5	0.843	2.830	-3.43	0.487	66.2	219.4	-5.5	0.280
4- 730	4-1410	0.499	51.6	-4.7	-9.93	1.198	111.3	0.557	1.849	297.8	565.8	0.820	2.878	-3.40	0.491	64.1	221.9	-5.0	0.298
4- 730	4-1430	0.528	53.5	-3.2	-10.23	1.199	113.1	0.574	1.861	293.9	566.9	0.793	2.930	-3.41	0.495	62.0	224.8	-4.7	0.317
4- 740	4- 960	0.586	46.5	-16.1	-13.94	1.355	107.6	0.877	7.429	322.3	476.4	0.916	---	3.86	0.759	142.1	242.2	2.7	0.656
4- 740	4- 980	0.540	47.6	-20.4	-14.70	1.314	105.6	0.772	4.080	324.0	482.2	0.930	---	4.55	0.685	138.0	243.6	3.7	0.571
4- 740	4-1000	0.511	49.1	-25.3	-15.79	1.283	103.9	0.693	3.065	325.7	488.1	0.942	---	5.58	0.626	133.6	244.7	5.1	0.500
4- 740	4-1020	0.502	51.8	-30.9	-17.57	1.259	102.5	0.632	2.585	327.4	494.0	0.952	---	7.30	0.580	129.0	245.4	7.4	0.442
4- 740	4-1040	0.526	57.5	-38.0	-20.99	1.241	101.4	0.585	2.314	329.0	499.8	0.961	---	10.65	0.543	124.3	245.3	12.1	0.396
4- 740	4-1060	0.653	73.4	-47.2	-30.27	1.227	100.4	0.549	2.144	330.5	505.5	0.968	---	19.87	0.514	119.6	242.6	23.4	0.384
4- 740	4-1100	0.364	6.9	48.9	11.61	1.208	99.3	0.501	1.954	331.9	516.3	0.974	---	-22.14	0.477	110.4	239.9	-30.2	0.335
4- 740	4-1120	0.280	22.7	11.7	0.49	1.202	98.9	0.486	1.899	332.6	521.4	0.977	---	-11.09	0.466	106.0	241.9	-19.2	0.262
4- 740	4-1140	0.281	28.5	-3.4	-3.31	1.198	98.6	0.474	1.861	332.9	526.2	0.979	---	-7.36	0.459	101.8	240.3	-14.5	0.229
4- 740	4-1160	0.287	31.9	-10.5	-5.22	1.195	98.6	0.467	1.835	332.9	530.7	0.979	---	-5.51	0.455	97.9	237.5	-12.0	0.208
4- 740	4-1180	0.294	34.3	-14.4	-6.39	1.192	98.6	0.462	1.817	332.5	535.0	0.978	---	-4.42	0.453	94.3	234.0	-10.3	0.194

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 740	4-1200	0.302	36.3	-16.6	-7.18	1.191	98.8	0.459	1.805	331.7	538.9	0.976	---	-3.70	0.453	90.9	230.2	-9.1	0.185
4- 740	4-1220	0.309	38.2	-17.6	-7.76	1.190	99.1	0.459	1.798	330.7	542.6	0.974	2.623	-3.20	0.455	87.8	226.4	-8.0	0.182
4- 740	4-1240	0.318	40.0	-18.0	-8.20	1.190	99.5	0.460	1.796	329.3	546.0	0.970	2.622	-2.83	0.458	84.9	223.0	-7.1	0.182
4- 740	4-1260	0.327	41.8	-17.8	-8.56	1.190	100.1	0.463	1.796	327.7	549.2	0.965	2.628	-2.55	0.461	82.2	220.2	-6.3	0.186
4- 740	4-1280	0.338	43.6	-17.2	-8.86	1.190	100.7	0.467	1.799	325.8	552.1	0.958	2.640	-2.34	0.465	79.8	218.2	-5.6	0.192
4- 740	4-1300	0.350	45.4	-16.2	-9.12	1.191	101.5	0.473	1.804	323.6	554.8	0.951	2.658	-2.17	0.470	77.4	217.0	-4.9	0.202
4- 740	4-1320	0.363	47.2	-15.0	-9.34	1.192	102.4	0.480	1.811	321.1	557.2	0.941	2.681	-2.03	0.474	75.3	216.6	-4.4	0.213
4- 740	4-1340	0.378	49.1	-13.6	-9.54	1.193	103.4	0.489	1.819	318.4	559.5	0.930	2.709	-1.93	0.479	73.2	217.0	-3.9	0.225
4- 740	4-1360	0.395	51.0	-12.1	-9.72	1.194	104.5	0.498	1.829	315.4	561.5	0.917	2.740	-1.85	0.483	71.2	218.0	-3.5	0.239
4- 740	4-1380	0.414	52.9	-10.4	-9.89	1.195	105.7	0.510	1.839	312.2	563.3	0.902	2.777	-1.79	0.487	69.3	219.5	-3.2	0.254
4- 740	4-1400	0.434	54.8	-8.7	-10.05	1.196	107.0	0.522	1.851	308.8	564.9	0.885	2.817	-1.74	0.491	67.4	221.6	-2.9	0.269
4- 740	4-1420	0.457	56.7	-6.9	-10.21	1.198	108.5	0.536	1.863	305.2	566.2	0.864	2.861	-1.71	0.495	65.5	224.1	-2.7	0.286
4- 740	4-1440	0.483	58.7	-5.0	-10.36	1.199	110.1	0.551	1.876	301.3	567.4	0.841	2.910	-1.69	0.499	63.6	226.9	-2.5	0.303
4- 750	4- 950	0.577	46.0	-9.0	-10.52	1.400	106.3	0.99222	005	327.4	470.0	0.936	---	-0.11	0.837	144.7	242.9	-0.1	0.734
4- 750	4- 970	0.510	45.6	-11.9	-10.51	1.347	104.2	0.854	6.497	329.1	475.9	0.949	---	-0.12	0.748	140.8	244.5	-0.1	0.634
4- 750	4- 990	0.458	45.1	-14.9	-10.49	1.308	102.4	0.751	3.856	331.0	481.9	0.961	---	-0.13	0.676	136.6	245.8	-0.1	0.552
4- 750	4-1010	0.418	44.3	-17.8	-10.47	1.278	100.9	0.673	2.968	332.9	488.0	0.971	---	-0.15	0.620	132.2	246.9	-0.1	0.482
4- 750	4-1030	0.388	43.6	-20.5	-10.44	1.255	99.6	0.614	2.535	334.7	494.2	0.979	---	-0.18	0.575	127.6	247.7	-0.2	0.422
4- 750	4-1050	0.364	42.8	-22.9	-10.39	1.238	98.5	0.569	2.284	336.4	500.2	0.985	---	-0.23	0.540	122.9	248.1	-0.3	0.371
4- 750	4-1070	0.346	42.0	-24.9	-10.30	1.224	97.7	0.535	2.126	337.9	506.0	0.990	---	-0.31	0.513	118.2	248.1	-0.4	0.328
4- 750	4-1090	0.331	41.1	-26.2	-10.12	1.214	97.0	0.509	2.021	339.1	511.7	0.993	---	-0.49	0.493	113.6	247.5	-0.8	0.290
4- 750	4-1110	0.313	39.4	-25.6	-9.38	1.207	96.5	0.489	1.949	340.0	517.0	0.996	---	-1.22	0.478	109.2	246.3	-2.1	0.259
4- 750	4-1130	0.351	46.0	-35.7	-13.04	1.201	96.2	0.475	1.898	340.6	522.1	0.997	---	2.43	0.468	104.9	244.4	4.7	0.234
4- 750	4-1150	0.323	42.7	-32.1	-11.21	1.197	96.0	0.464	1.863	340.8	526.9	0.998	---	0.61	0.461	100.9	241.9	1.3	0.212
4- 750	4-1170	0.318	42.5	-31.6	-10.95	1.194	96.0	0.457	1.838	340.7	531.4	0.998	---	0.35	0.458	97.1	238.7	0.8	0.196
4- 750	4-1190	0.316	42.9	-31.2	-10.84	1.192	96.1	0.453	1.822	340.3	535.6	0.997	---	0.24	0.457	93.6	235.0	0.6	0.185
4- 750	4-1210	0.316	43.5	-30.5	-10.78	1.191	96.3	0.450	1.811	339.5	539.5	0.996	---	0.19	0.457	90.4	231.1	0.5	0.178
4- 750	4-1230	0.317	44.5	-29.5	-10.75	1.190	96.7	0.450	1.806	338.3	543.2	0.993	2.619	0.15	0.459	87.4	227.4	0.4	0.176
4- 750	4-1250	0.320	45.6	-28.3	-10.72	1.190	97.1	0.451	1.804	336.9	546.6	0.990	2.618	0.13	0.462	84.7	224.1	0.3	0.177
4- 750	4-1270	0.325	47.0	-26.9	-10.70	1.190	97.7	0.454	1.806	335.2	549.7	0.986	2.625	0.11	0.466	82.1	221.5	0.3	0.181
4- 750	4-1290	0.331	48.5	-25.2	-10.69	1.190	98.3	0.458	1.809	333.2	552.6	0.981	2.638	0.10	0.470	79.8	219.7	0.2	0.188
4- 750	4-1310	0.338	50.1	-23.3	-10.67	1.191	99.1	0.463	1.815	330.9	555.2	0.975	2.655	0.09	0.474	77.6	218.6	0.2	0.197
4- 750	4-1330	0.348	51.8	-21.3	-10.66	1.192	100.0	0.469	1.823	328.4	557.6	0.968	2.678	0.08	0.479	75.6	218.4	0.2	0.208
4- 750	4-1350	0.359	53.6	-19.2	-10.65	1.193	100.9	0.477	1.831	325.7	559.8	0.959	2.704	0.08	0.483	73.7	218.9	0.2	0.220
4- 750	4-1370	0.371	55.5	-17.0	-10.65	1.194	102.0	0.485	1.841	322.7	561.8	0.948	2.735	0.07	0.487	71.8	220.0	0.1	0.233
4- 750	4-1390	0.386	57.4	-14.7	-10.64	1.196	103.1	0.495	1.852	319.5	563.6	0.935	2.769	0.07	0.492	70.0	221.6	0.1	0.247
4- 750	4-1410	0.403	59.4	-12.4	-10.63	1.197	104.4	0.506	1.864	316.1	565.2	0.920	2.808	0.07	0.495	68.3	223.7	0.1	0.261
4- 750	4-1430	0.422	61.4	-10.0	-10.63	1.199	105.8	0.519	1.876	312.5	566.6	0.903	2.850	0.07	0.499	66.6	226.2	0.1	0.277
4- 750	4-1450	0.443	63.4	-7.7	-10.62	1.200	107.3	0.533	1.889	308.7	567.8	0.883	2.896	0.07	0.502	64.8	229.0	0.1	0.293
4- 760	4- 940	0.594	46.7	-4.8	-8.87	1.457	104.6	1.148	-6.462	332.7	463.8	0.956	---	-2.41	0.928	146.9	243.5	-1.5	0.825
4- 760	4- 960	0.511	45.7	-7.2	-8.62	1.389	102.5	0.96225	301	334.5	469.8	0.968	---	-2.58	0.819	143.3	245.0	-1.8	0.708
4- 760	4- 980	0.447	44.3	-9.6	-8.34	1.338	100.6	0.826	5.637	336.5	475.9	0.978	---	-2.79	0.733	139.3	246.4	-2.2	0.612
4- 760	4-1000	0.397	42.6	-11.7	-7.99	1.300	99.0	0.726	3.608	338.6	482.2	0.987	---	-3.06	0.665	135.1	247.6	-2.7	0.532
4- 760	4-1020	0.357	40.4	-13.5	-7.57	1.272	97.6	0.652	2.854	340.8	488.6	0.994	---	-3.41	0.610	130.6	248.5	-3.4	0.465
4- 760	4-1040	0.325	38.0	-14.5	-7.02	1.250	96.4	0.595	2.470	342.8	494.9	0.999	---	-3.88	0.568	126.0	249.1	-4.4	0.408
4- 760	4-1060	0.298	35.2	-14.5	-6.29	1.234	95.5	0.553	2.245	344.6	501.1	1.004	---	-4.54	0.534	121.4	249.3	-5.8	0.359
4- 760	4-1080	0.274	31.8	-12.6	-5.23	1.221	94.7	0.521	2.101	346.2	507.1	1.006	---	-5.53	0.509	116.7	249.0	-7.9	0.319
4- 760	4-1100	0.252	27.4	-7.2	-3.55	1.212	94.1	0.497	2.004	347.5	512.8	1.008	---	-7.14	0.490	112.2	247.9	-11.4	0.287
4- 760	4-1120	0.233	20.2	6.2	-0.42	1.205	93.7	0.479	1.938	348.5	518.2	1.010	---	-10.19	0.477	107.8	245.9	-17.6	0.266
4- 760	4-1140	0.267	2.6	40.4	7.45	1.200	93.4	0.466	1.892	349.2	523.3	1.011	---	-17.99	0.468	103.6	241.4	-30.2	0.279
4- 760	4-1160	0.954	233.5	66.3	50.70	1.196	93.0	0.456	1.860	350.3	528.2	1.012	---	-61.17	0.463	99.6	223.1	-43.6	0.580
4- 760	4-1180	0.719	95.1	-60.2	-36.85	1.193	93.6	0.450	1.838	348.3	532.4	1.010	---	26.46	0.460	96.1	233.6	41.0	0.311
4- 760	4-1200	0.478	66.2	-54.1	-22.63	1.191	93.7	0.446	1.823	348.0	536.6	1.010	---	12.31	0.459	92.8	234.2	27.1	0.215
4- 760	4-1220	0.407	57.7	-48.8	-18.21	1.190	93.9	0.444	1.815	347.2	540.4	1.009	2.621	7.96	0.460	89.7	231.1	19.6	0.191
4- 760	4-1240	0.375	54.3	-44.7	-16.06	1.190	94.3	0.444	1.811	346.1	544.0	1.007	2.615	5.89	0.463	86.8	227.8	15.1	0.182
4- 760	4-1260	0.358	53.1	-41.3	-14.78	1.190	94.7	0.445	1.811	344.5	547.3	1.005	2.616	4.69	0.466	84.2	224.8	12.1	0.181
4- 760	4-1280	0.349	53.0	-38.2	-13.92	1.190	95.3	0.447	1.813	342.8	550.3	1.002	2.624	3.92	0.470	81.8	222.4	9.9	0.184
4- 760	4-1300	0.345	53.6	-35.2	-13.30	1.191	96.0	0.451	1.818	340.7	553.2	0.999	2.637	3.38	0.474	79.6	220.9	8.3	0.190
4- 760	4-1320	0.344	54.6	-32.2	-12.83	1.192	96.7	0.455	1.824	338.4	555.7	0.994	2.655	2.99	0.478	77.6	220.1	7.1	0.198
4- 760	4-1340	0.346	56.0	-29.2	-12.44	1.193	97.6	0.461	1.833	335.8	558.1	0.988	2.677	2.69	0.483	75.7	220.0	6.1	0.208
4- 760	4-1360	0.351	57.6	-26.2	-12.13	1.194	98.5	0.467	1.842	333.0	560.3	0.981	2.703	2.47	0.487	73.9	220.6	5.3	0.219
4- 760	4-1380	0.358	59.4	-23.2	-11.86	1.195	99.6	0.475	1.853	330.0	562.3	0.973	2.733	2.29	0.491	72.2	221.9	4.7	0.231
4- 760	4-1400	0.367	61.3	-20.2	-11.62	1.196	100.7	0.484	1.864	326.8	564.0	0.962	2.766	2.16	0.495	70.6	223.6	4.1	0.243
4- 760	4-1420	0.379	63.3	-17.2	-11.41	1.198	101.9	0.494	1.876	323.4	565.6	0.950	2.802	2.05	0.499	69.0	225.7	3.7	0.257
4- 760	4-1440	0.394	65.4	-14.3	-11.21	1.199	103.2	0.505	1.889	319.8	567.0	0.936	2.842	1.97	0.502	67.4	228.2	3.4	0.271
4- 760	4-1460	0.411	67.6	-11.4	-11.03	1.201	104.7	0.517	1.903	316.0	568.2	0.919	2.886	1.90	0.506	65.8	231.1	3.1	0.285
4- 770	4- 930	0.631	47.2	-2.4	-8.01	1.529	102.5	1.361	-2.702	338.3	457.9	0.975	---	-4.04	1.037	148.9	243.9	-2.3	0.933
4- 770	4- 950	0.530	45.9	-4.5	-7.66	1.440	100.4	1.105	-9.405	340.1	463.9	0.985	---	-4.22	0.903	145.6	245.4	-2.7	0.793
4- 770	4- 970	0.453	43.9	-6.7	-7.28	1.375	98.5	0.92513	.216	342.3	470.1	0.994	---	-4.45	0.798	141.9	246.8	-3.2	0.681
4- 770	4- 990	0.394	41.4	-8.7	-6.84	1.328	96.8	0.795	4.881	344.6	476.6	1.001	---	-4.73	0.715	137.8	248.0	-3.9	0.588
4- 770	4-1010	0.349	38.4	-10.3	-6.34	1.292	95.3	0.700	3.353	347.0	483.2	1.006	---	-5.08	0.650	133.5	249.0	-4.7	0.511
4- 770	4-1030	0.314	35.0	-11.3	-5.75	1.265	94.1	0.630	2.726	349.4	489.9	1.010	---	-5.52	0.598	129.0	249.8	-5.8	0.447
4- 770	4-1050	0.285	31.3	-11.3	-5.03	1.245	93.1	0.577	2.395	351.6	496.4	1.013	---	-6.10	0.558	124.4	250.1	-7.2	0.392
4- 770	4-1070	0.262	27.2	-9.9	-4.12	1.230	92.3	0.538	2.196	353.6	502.7	1.015	---	-6.86	0.527	119.7	250.0	-9.1	0.347
4- 770	4-1090	0.243	22.8	-6.5	-2.94	1.218	91.6	0.509	2.068	355.2	508.8	1.016	---	-7.90	0.504	115.0	249.3	-11.7	0.310
4- 770	4-1110	0.228	17.7	0.0	-1.31	1.209	91.1	0.487	1.981	356.5	514.5	1.016	---	-9.39	0.487	110.5	247.9	-15.3	0.281
4- 770	4-1130	0.221	11.1	11.4	1.13	1.203	90.8	0.471	1.922	357.5	519.9	1.016	---	-11.68	0.475	106.2	245.6	-20.6	0.262
4- 770	4-1150	0.236	0.7	30.3	5.19	1.198	90.6	0.460	1.881	358.1	524.9	1.017	---	-15.60	0.467	102.1	242.1	-28.2	0.260
4- 770	4-1170	0.329	337.8	55.0	13.33	1.195	90.5	0.451	1.853	358.5	529.7	1.017	---	-23.59	0.463	98.3	236.6	-38.3	0.295
4- 770	4-1190	0.698	266.4	66.8	35.79	1.192	90.3	0.446	1.834	359.0	534.1	1.017	---	-45.91	0.461	94.7	227.6	-46.1	0.458

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 830	4-1130	0.447	354.8	-1.3	0.35	1.196	69.8	0.541	1.812	60.0	164.9	---	---	-10.69	0.440	106.4	239.5	-16.5	0.275
4- 830	4-1150	0.440	353.8	0.8	1.25	1.191	70.1	0.530	1.777	59.9	169.3	---	---	-10.96	0.433	101.6	236.5	-18.4	0.256
4- 830	4-1170	0.433	353.0	3.2	2.21	1.188	70.4	0.522	1.756	59.5	173.4	---	---	-11.31	0.429	97.1	233.3	-20.2	0.242
4- 830	4-1190	0.427	352.3	6.0	3.25	1.187	70.9	0.516	1.744	58.6	177.1	---	---	-11.77	0.429	93.1	230.2	-21.9	0.234
4- 830	4-1210	0.422	351.6	9.2	4.40	1.186	71.4	0.510	1.740	57.3	180.4	---	2.627	-12.36	0.432	89.5	227.3	-23.6	0.231
4- 830	4-1230	0.418	350.7	12.9	5.69	1.186	72.0	0.505	1.741	55.8	183.5	---	2.620	-13.11	0.436	86.4	224.9	-25.1	0.232
4- 830	4-1250	0.417	349.6	17.1	7.16	1.187	72.6	0.501	1.746	54.0	186.4	---	2.621	-14.06	0.442	83.6	223.1	-26.7	0.237
4- 830	4-1270	0.418	347.9	22.0	8.89	1.188	73.3	0.498	1.754	52.0	189.1	---	2.627	-15.28	0.448	81.2	222.0	-28.3	0.246
4- 830	4-1290	0.426	345.6	27.4	10.96	1.189	74.0	0.495	1.764	49.8	191.6	---	2.637	-16.85	0.455	79.1	221.7	-30.1	0.258
4- 830	4-1310	0.442	342.0	33.5	13.54	1.191	74.8	0.493	1.776	47.5	193.9	---	2.651	-18.94	0.461	77.2	222.3	-32.1	0.275
4- 830	4-1330	0.471	336.4	39.9	16.85	1.193	75.5	0.491	1.790	45.0	196.1	---	2.668	-21.78	0.468	75.5	223.7	-34.5	0.297
4- 830	4-1350	0.523	327.8	45.9	21.31	1.195	76.3	0.489	1.805	42.5	198.2	---	2.688	-25.76	0.475	74.1	226.3	-37.1	0.329
4- 830	4-1370	0.611	314.9	50.2	27.64	1.197	77.1	0.489	1.821	40.1	200.1	---	2.711	-31.63	0.481	72.7	230.2	-39.9	0.376
4- 830	4-1390	0.759	298.0	50.8	37.19	1.199	77.8	0.489	1.838	37.9	202.0	---	2.737	-40.73	0.487	71.5	236.1	-42.2	0.449
4- 830	4-1410	1.003	281.1	45.4	52.32	1.201	78.2	0.491	1.856	36.3	203.7	---	2.766	-55.40	0.493	70.3	244.5	-42.4	0.567
4- 830	4-1470	1.040	97.6	-84.6	-55.19	1.208	85.4	0.477	1.910	14.4	207.3	---	2.821	53.46	0.507	69.2	255.1	42.8	0.561
4- 830	4-1490	0.799	74.2	-73.9	-40.85	1.210	86.0	0.481	1.929	12.3	208.6	---	2.856	39.58	0.511	68.3	251.7	41.1	0.460
4- 830	4-1510	0.643	71.3	-64.9	-31.77	1.212	86.9	0.484	1.948	9.4	209.8	---	2.891	30.95	0.514	67.5	250.4	37.3	0.403
4- 830	4-1530	0.539	71.8	-57.3	-25.70	1.214	88.0	0.488	1.967	6.1	210.9	---	2.926	25.35	0.517	66.7	251.0	33.2	0.372
4- 840	4-1000	0.640	9.6	-6.4	-5.13	1.336	64.2	0.840	4.989	57.0	124.2	---	---	-11.49	0.720	142.8	246.2	-7.7	0.647
4- 840	4-1020	0.604	6.1	-6.2	-4.24	1.288	64.2	0.744	3.054	61.6	133.0	---	---	-11.18	0.629	137.8	245.8	-8.5	0.550
4- 840	4-1040	0.580	3.4	-5.7	-3.38	1.254	64.2	0.682	2.420	65.3	140.9	---	---	-10.93	0.560	132.4	245.1	-9.5	0.474
4- 840	4-1060	0.562	1.2	-5.0	-2.55	1.231	64.3	0.641	2.118	68.2	148.0	---	---	-10.76	0.509	126.7	244.0	-10.6	0.412
4- 840	4-1080	0.548	359.6	-3.9	-1.72	1.214	64.5	0.613	1.950	70.1	154.3	---	---	-10.64	0.472	120.7	242.4	-11.9	0.364
4- 840	4-1100	0.537	358.3	-2.7	-0.90	1.202	64.7	0.593	1.849	71.3	159.8	---	---	-10.59	0.446	114.8	240.3	-13.2	0.325
4- 840	4-1120	0.526	357.4	-1.3	-0.08	1.194	65.1	0.578	1.787	71.7	164.7	---	---	-10.60	0.429	109.0	237.8	-14.7	0.295
4- 840	4-1140	0.517	356.8	0.4	0.77	1.189	65.5	0.567	1.748	71.6	169.1	---	---	-10.68	0.419	103.6	234.9	-16.1	0.272
4- 840	4-1160	0.507	356.3	2.2	1.64	1.186	66.0	0.557	1.724	71.0	173.0	---	---	-10.83	0.415	98.6	231.9	-17.5	0.256
4- 840	4-1180	0.498	355.9	4.3	2.55	1.184	66.5	0.549	1.712	70.0	176.6	---	---	-11.05	0.414	94.1	228.8	-18.9	0.245
4- 840	4-1200	0.489	355.6	6.6	3.51	1.184	67.1	0.542	1.707	68.7	179.8	---	---	-11.36	0.417	90.2	226.0	-20.1	0.239
4- 840	4-1220	0.481	355.3	9.3	4.54	1.184	67.8	0.536	1.709	67.1	182.8	---	2.625	-11.77	0.422	86.7	223.7	-21.2	0.237
4- 840	4-1240	0.474	354.9	12.3	5.67	1.185	68.5	0.531	1.714	65.2	185.6	---	2.624	-12.31	0.428	83.7	221.8	-22.3	0.239
4- 840	4-1260	0.468	354.3	15.7	6.93	1.186	69.3	0.526	1.723	63.1	188.2	---	2.629	-12.99	0.435	81.1	220.6	-23.4	0.243
4- 840	4-1280	0.464	353.5	19.5	8.35	1.187	70.1	0.521	1.734	60.8	190.7	---	2.638	-13.85	0.442	78.8	220.1	-24.6	0.250
4- 840	4-1300	0.463	352.2	23.9	10.00	1.189	70.9	0.517	1.748	58.3	192.9	---	2.652	-14.96	0.450	76.9	220.3	-25.9	0.259
4- 840	4-1320	0.467	350.2	28.8	11.94	1.191	71.8	0.513	1.763	55.7	195.1	---	2.668	-16.39	0.458	75.1	221.1	-27.4	0.271
4- 840	4-1340	0.479	347.2	34.2	14.32	1.193	72.7	0.510	1.779	53.0	197.1	---	2.687	-18.25	0.465	73.7	222.7	-29.2	0.286
4- 840	4-1360	0.502	342.5	39.9	17.32	1.196	73.6	0.507	1.796	50.3	199.0	---	2.708	-20.76	0.473	72.4	224.9	-31.4	0.306
4- 840	4-1380	0.543	335.1	45.4	21.26	1.198	74.5	0.505	1.814	47.4	200.8	---	2.731	-24.21	0.480	71.2	228.0	-34.0	0.333
4- 840	4-1400	0.613	324.1	49.8	26.69	1.200	75.4	0.504	1.833	44.7	202.5	---	2.756	-29.15	0.486	70.2	232.2	-36.9	0.371
4- 840	4-1420	0.729	309.1	51.4	34.60	1.203	76.2	0.503	1.852	42.1	204.1	---	2.784	-36.60	0.492	69.2	238.0	-39.7	0.429
4- 840	4-1440	0.922	292.9	48.0	46.79	1.205	76.9	0.504	1.871	39.9	205.6	---	2.814	-48.32	0.497	68.2	246.2	-41.5	0.521
4- 840	4-1500	1.180	349.1	-88.6	-63.59	1.212	84.5	0.486	1.931	17.0	208.8	---	2.869	63.45	0.511	67.8	264.4	41.3	0.641
4- 840	4-1520	0.891	65.4	-76.8	-45.94	1.214	85.0	0.490	1.951	15.3	210.0	---	2.907	46.26	0.514	66.9	260.2	41.5	0.516
4- 840	4-1540	0.698	68.4	-66.6	-34.66	1.216	85.8	0.493	1.971	12.6	211.1	---	2.943	35.44	0.517	66.2	257.9	38.4	0.442
4- 850	4-1010	0.731	8.0	-4.9	-5.08	1.309	57.6	0.810	3.576	73.8	133.4	---	---	-12.25	0.664	143.0	243.9	-7.9	0.618
4- 850	4-1030	0.695	5.5	-4.5	-4.07	1.266	58.0	0.739	2.564	77.7	141.5	---	---	-11.77	0.579	137.5	243.1	-8.7	0.527
4- 850	4-1050	0.669	3.6	-3.8	-3.12	1.236	58.4	0.694	2.156	80.6	148.6	---	---	-11.38	0.515	131.6	241.9	-9.6	0.455
4- 850	4-1070	0.648	2.2	-2.9	-2.22	1.216	58.8	0.663	1.947	82.5	154.8	---	---	-11.07	0.469	125.2	240.2	-10.6	0.399
4- 850	4-1090	0.632	1.3	-1.9	-1.35	1.202	59.3	0.641	1.828	83.5	160.2	---	---	-10.84	0.436	118.7	238.2	-11.7	0.354
4- 850	4-1110	0.617	0.6	-0.7	-0.50	1.193	59.8	0.624	1.756	83.9	164.9	---	---	-10.67	0.415	112.3	235.7	-12.8	0.320
4- 850	4-1130	0.604	0.1	0.7	0.34	1.186	60.4	0.611	1.712	83.6	169.1	---	---	-10.57	0.402	106.2	233.0	-14.0	0.293
4- 850	4-1150	0.591	359.9	2.2	1.18	1.183	61.0	0.600	1.687	82.9	172.8	---	---	-10.54	0.396	100.5	230.0	-15.1	0.274
4- 850	4-1170	0.579	359.7	3.9	2.03	1.181	61.9	0.591	1.673	81.7	176.2	---	---	-10.57	0.395	95.4	227.1	-16.1	0.261
4- 850	4-1190	0.567	359.7	5.7	2.89	1.180	62.4	0.582	1.669	80.2	179.3	---	---	-10.68	0.398	90.9	224.5	-17.0	0.252
4- 850	4-1210	0.555	359.7	7.7	3.79	1.180	63.2	0.574	1.670	78.5	182.2	---	2.630	-10.85	0.403	87.0	222.2	-17.8	0.248
4- 850	4-1230	0.544	359.7	10.0	4.74	1.181	64.0	0.567	1.677	76.5	184.9	---	2.628	-11.12	0.410	83.7	220.4	-18.5	0.247
4- 850	4-1250	0.533	359.6	12.5	5.74	1.183	64.9	0.560	1.687	74.3	187.4	---	2.632	-11.47	0.418	80.8	219.2	-19.3	0.249
4- 850	4-1270	0.524	359.5	15.3	6.83	1.185	65.8	0.554	1.699	71.9	189.7	---	2.641	-11.94	0.427	78.3	218.6	-20.0	0.253
4- 850	4-1290	0.515	359.2	18.4	8.03	1.187	66.7	0.548	1.714	69.3	191.9	---	2.653	-12.54	0.436	76.2	218.7	-20.8	0.259
4- 850	4-1310	0.508	358.6	22.0	9.36	1.189	67.7	0.543	1.730	66.6	194.0	---	2.669	-13.31	0.445	74.4	219.3	-21.8	0.266
4- 850	4-1330	0.505	357.7	25.9	10.90	1.191	68.7	0.538	1.748	63.8	196.0	---	2.687	-14.29	0.454	72.9	220.4	-22.9	0.275
4- 850	4-1350	0.505	356.1	30.3	12.69	1.194	69.7	0.533	1.766	60.9	197.9	---	2.708	-15.55	0.462	71.6	222.1	-24.3	0.286
4- 850	4-1370	0.512	353.6	35.2	14.84	1.197	70.7	0.529	1.785	57.9	199.7	---	2.730	-17.19	0.470	70.5	224.4	-26.0	0.299
4- 850	4-1390	0.528	349.7	40.4	17.51	1.199	71.7	0.525	1.805	54.9	201.4	---	2.754	-19.35	0.477	69.5	227.1	-28.0	0.315
4- 850	4-1410	0.559	343.5	45.5	20.94	1.202	72.8	0.522	1.826	51.8	203.0	---	2.779	-22.29	0.484	68.6	230.6	-30.5	0.337
4- 850	4-1430	0.613	334.2	50.0	25.55	1.204	73.8	0.520	1.847	48.7	204.5	---	2.806	-26.42	0.490	67.8	234.8	-33.4	0.367
4- 850	4-1450	0.703	320.9	52.4	32.08	1.207	74.7	0.518	1.868	45.8	205.9	---	2.835	-32.47	0.496	67.1	240.4	-36.6	0.411
4- 850	4-1470	0.853	305.2	50.9	41.88	1.209	75.6	0.517	1.889	43.1	207.2	---	2.866	-41.80	0.501	66.3	247.9	-39.5	0.481
4- 850	4-1490	1.095	291.2	43.9	57.18	1.212	76.2	0.519	1.910	41.1	208.5	---	2.901	-56.64	0.506	65.6	258.0	-40.4	0.594
4- 850	4-1550	1.000	47.5	-78.8	-52.14	1.219	84.0	0.500	1.974	18.2	211.2	---	2.960	54.04	0.517	65.7	269.3	41.2	0.579
4- 860	4-1020	0.833	8.1	-3.2	-5.11	1.282	50.7	0.807	2.829	90.9	142.8	---	---	-12.98	0.608	143.8	240.8	-7.8	0.596
4- 860	4-1040	0.793	6.4	-2.5	-3.95	1.244	51.6	0.756	2.226	93.7	149.8	---	---	-12.30	0.527	137.7	239.6	-8.5	0.511
4- 860	4-1060	0.764	5.3	-1.7	-2.88	1.219	52.3	0.723	1.953	95.4	155.8	---	---	-11.74	0.468	131.0	237.9	-9.3	0.444
4- 860	4-1080	0.740	4.5	-0.7	-1.90	1.202	53.1	0.698	1.806	96.2	160.9	---	---	-11.28	0.426	123.9	235.9	-10.2	0.392
4- 860	4-1100	0.719	4.1	0.3	-0.97	1.190	53.9	0.680	1.722	96.3	165.3	---	---	-10.91	0.398	116.7	233.5	-11.0	0.352
4- 860	4-1120	0.701	3.8	1.5	-0.08	1.183	54.7	0.664	1.672	95.8	169.2	---	---	-10.63	0.382	109.6	230.8	-11.9	0.322
4- 860	4-1140	0.685	3.7	2.8	0.78	1.179	55.5	0.651	1.644	94.8	172.8	---	---	-10.42	0.373	103.1	228.1	-12.7	0.299
4- 860	4-1160	0.669	3.8	4.2	1.62	1.176	56.4	0.640	1.629	93.5	175.9	---	---	-10.27	0.372	97.1	225.3	-13.5	0.283
4- 860	4-1180	0.653	4.0	5.7	2.44	1.176	57.3	0.630	1.625	91.9	178.9	---	---	-10.20	0.374	91.9	222.8	-14.1	0.272

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 860	4-1200	0.639	4.2	7.4	3.27	1.176	58.2	0.620	1.627	90.0	181.6	---	2.635	-10.19	0.380	87.4	220.6	-14.7	0.265
4- 860	4-1220	0.624	4.4	9.2	4.12	1.177	59.2	0.611	1.634	87.8	184.1	---	2.632	-10.25	0.389	83.6	218.9	-15.2	0.262
4- 860	4-1240	0.610	4.7	11.2	4.98	1.179	60.2	0.602	1.645	85.5	186.5	---	2.635	-10.38	0.398	80.4	217.8	-15.7	0.262
4- 860	4-1260	0.596	4.9	13.3	5.88	1.181	61.2	0.594	1.659	83.0	188.8	---	2.644	-10.58	0.408	77.6	217.2	-16.1	0.264
4- 860	4-1280	0.583	5.1	15.7	6.83	1.183	62.2	0.586	1.674	80.4	190.9	---	2.656	-10.88	0.418	75.4	217.2	-16.6	0.267
4- 860	4-1300	0.571	5.2	18.3	7.85	1.186	63.3	0.579	1.692	77.6	192.9	---	2.671	-11.28	0.429	73.4	217.7	-17.2	0.272
4- 860	4-1320	0.560	5.1	21.2	8.97	1.189	64.4	0.572	1.711	74.7	194.9	---	2.689	-11.80	0.439	71.8	218.8	-17.9	0.277
4- 860	4-1340	0.550	4.8	24.4	10.20	1.192	65.5	0.565	1.731	71.8	196.7	---	2.709	-12.46	0.448	70.5	220.2	-18.7	0.284
4- 860	4-1360	0.543	4.1	28.0	11.59	1.194	66.6	0.559	1.752	68.7	198.5	---	2.731	-13.31	0.458	69.3	222.1	-19.7	0.292
4- 860	4-1380	0.540	3.0	32.0	13.20	1.197	67.7	0.553	1.773	65.5	200.1	---	2.754	-14.39	0.466	68.4	224.4	-21.0	0.301
4- 860	4-1400	0.542	1.0	36.4	15.11	1.200	68.9	0.548	1.795	62.3	201.7	---	2.779	-15.79	0.474	67.6	227.1	-22.5	0.311
4- 860	4-1420	0.552	357.9	41.1	17.43	1.203	70.0	0.543	1.817	59.0	203.2	---	2.804	-17.62	0.481	66.8	230.2	-24.4	0.324
4- 860	4-1440	0.573	352.9	46.0	20.37	1.206	71.1	0.539	1.840	55.7	204.7	---	2.831	-20.07	0.488	66.2	233.8	-26.7	0.341
4- 860	4-1460	0.611	345.2	50.5	24.22	1.209	72.3	0.535	1.862	52.4	206.0	---	2.860	-23.45	0.494	65.8	238.0	-29.5	0.364
4- 860	4-1480	0.678	333.7	53.7	29.54	1.211	73.3	0.533	1.885	49.2	207.3	---	2.889	-28.31	0.500	65.1	243.2	-32.8	0.396
4- 860	4-1500	0.791	318.7	53.9	37.31	1.214	74.4	0.531	1.908	46.2	208.5	---	2.921	-35.63	0.504	64.6	249.9	-36.4	0.448
4- 860	4-1520	0.978	303.6	49.3	49.35	1.216	75.2	0.531	1.930	43.5	209.6	---	2.955	-47.22	0.509	64.0	259.0	-39.2	0.532
4- 870	4-1030	0.941	9.5	-1.2	-5.24	1.258	43.6	0.827	2.378	107.5	151.6	---	---	-13.73	0.552	145.3	237.2	-7.3	0.585
4- 870	4-1050	0.897	8.6	-0.4	-3.87	1.224	44.9	0.791	1.985	108.8	157.2	---	---	-12.78	0.474	138.5	235.6	-7.9	0.504
4- 870	4-1070	0.863	8.0	0.6	-2.66	1.202	46.1	0.764	1.794	109.2	161.9	---	---	-12.01	0.419	130.9	233.6	-8.6	0.442
4- 870	4-1090	0.835	7.7	1.6	-1.56	1.188	47.2	0.743	1.690	109.0	166.0	---	---	-11.38	0.382	122.8	231.3	-9.2	0.395
4- 870	4-1110	0.810	7.7	2.6	-0.56	1.179	48.3	0.726	1.631	108.2	169.5	---	---	-10.86	0.359	114.7	228.8	-9.9	0.358
4- 870	4-1130	0.788	7.8	3.8	0.37	1.174	49.4	0.710	1.598	107.0	172.8	---	---	-10.45	0.347	106.8	226.1	-10.5	0.331
4- 870	4-1150	0.768	8.0	5.1	1.25	1.171	50.5	0.697	1.582	105.4	175.7	---	---	-10.12	0.343	99.7	223.6	-11.0	0.311
4- 870	4-1170	0.749	8.3	6.4	2.09	1.170	51.6	0.684	1.577	103.5	178.4	---	---	-9.87	0.346	93.4	221.2	-11.5	0.297
4- 870	4-1190	0.730	8.7	7.8	2.91	1.170	52.7	0.672	1.579	101.5	180.9	---	2.641	-9.69	0.352	88.1	219.2	-11.9	0.288
4- 870	4-1210	0.712	9.2	9.3	3.70	1.172	53.9	0.661	1.587	99.2	183.3	---	2.636	-9.57	0.362	83.6	217.6	-12.2	0.283
4- 870	4-1230	0.695	9.6	10.9	4.49	1.174	55.0	0.651	1.598	96.8	185.6	---	2.638	-9.52	0.373	79.8	216.5	-12.5	0.281
4- 870	4-1250	0.678	10.1	12.7	5.29	1.176	56.2	0.640	1.613	94.2	187.7	---	2.646	-9.54	0.385	76.7	216.0	-12.8	0.281
4- 870	4-1270	0.661	10.6	14.5	6.10	1.179	57.4	0.630	1.631	91.5	189.8	---	2.659	-9.62	0.397	74.2	216.0	-13.1	0.282
4- 870	4-1290	0.645	11.0	16.6	6.94	1.182	58.5	0.621	1.650	88.6	191.7	---	2.674	-9.78	0.409	72.1	216.4	-13.4	0.285
4- 870	4-1310	0.629	11.4	18.8	7.81	1.185	59.8	0.612	1.670	85.7	193.6	---	2.692	-10.01	0.421	70.4	217.4	-13.8	0.288
4- 870	4-1330	0.615	11.7	21.2	8.74	1.188	61.0	0.603	1.691	82.6	195.4	---	2.712	-10.34	0.432	69.0	218.8	-14.3	0.293
4- 870	4-1350	0.601	11.8	23.9	9.74	1.191	62.2	0.595	1.714	79.5	197.1	---	2.733	-10.77	0.443	67.9	220.5	-14.9	0.298
4- 870	4-1370	0.589	11.8	26.8	10.84	1.195	63.4	0.587	1.737	76.2	198.8	---	2.756	-11.32	0.453	66.9	222.6	-15.6	0.303
4- 870	4-1390	0.579	11.5	30.1	12.08	1.198	64.6	0.580	1.760	72.9	200.4	---	2.780	-12.03	0.462	66.1	225.0	-16.5	0.310
4- 870	4-1410	0.572	10.7	33.7	13.48	1.201	65.9	0.573	1.784	69.6	201.9	---	2.806	-12.93	0.470	65.5	227.7	-17.6	0.317
4- 870	4-1430	0.569	9.4	37.7	15.13	1.204	67.1	0.567	1.808	66.2	203.4	---	2.832	-14.09	0.478	64.9	230.7	-19.0	0.325
4- 870	4-1450	0.572	7.1	42.0	17.10	1.207	68.4	0.561	1.832	62.7	204.7	---	2.859	-15.59	0.485	64.4	234.0	-20.6	0.334
4- 870	4-1470	0.584	3.4	46.6	19.55	1.210	69.6	0.556	1.856	59.2	206.0	---	2.887	-17.59	0.492	64.0	237.7	-22.7	0.346
4- 870	4-1490	0.609	357.3	51.1	22.70	1.213	70.8	0.551	1.880	55.8	207.3	---	2.916	-20.29	0.497	63.6	241.8	-25.3	0.362
4- 870	4-1510	0.655	347.8	55.0	26.94	1.216	72.0	0.548	1.904	52.3	208.4	---	2.946	-24.10	0.503	63.3	246.6	-28.4	0.385
4- 870	4-1530	0.735	334.1	56.9	32.98	1.218	73.1	0.545	1.928	49.0	209.5	---	2.978	-29.72	0.507	63.0	252.4	-32.2	0.420
4- 870	4-1550	0.872	317.9	54.9	42.16	1.221	74.2	0.543	1.951	45.9	210.5	---	3.012	-38.48	0.511	62.6	260.2	-36.1	0.479
4- 870	4-1570	1.104	304.2	47.3	56.91	1.223	75.0	0.543	1.975	43.4	211.4	---	3.048	-52.83	0.514	62.2	270.9	-38.7	0.580
4- 880	4-1040	1.053	11.9	1.0	-5.53	1.237	36.2	0.864	2.085	122.8	159.2	---	---	-14.55	0.497	147.9	233.4	-6.5	0.585
4- 880	4-1060	1.004	11.6	1.9	-3.85	1.207	38.0	0.835	1.809	122.7	163.3	---	---	-13.24	0.422	140.2	231.5	-7.0	0.509
4- 880	4-1080	0.965	11.5	2.9	-2.43	1.188	39.6	0.813	1.671	122.0	166.9	---	---	-12.19	0.370	131.5	229.4	-7.5	0.450
4- 880	4-1100	0.932	11.6	3.9	-1.19	1.176	41.1	0.793	1.596	120.8	170.0	---	---	-11.35	0.336	122.1	227.0	-7.9	0.406
4- 880	4-1120	0.903	11.9	5.0	-0.09	1.169	42.5	0.776	1.555	119.2	172.9	---	---	-10.66	0.317	112.7	224.5	-8.3	0.373
4- 880	4-1140	0.877	12.3	6.2	0.90	1.165	43.9	0.760	1.534	117.4	175.5	---	---	-10.11	0.310	103.8	222.1	-8.7	0.348
4- 880	4-1160	0.853	12.8	7.4	1.80	1.164	45.3	0.745	1.527	115.3	177.9	---	---	-9.66	0.311	96.0	219.8	-9.0	0.331
4- 880	4-1180	0.831	13.3	8.6	2.65	1.164	46.7	0.731	1.529	113.0	180.3	---	2.647	-9.30	0.319	89.3	217.9	-9.3	0.318
4- 880	4-1200	0.809	13.9	10.0	3.44	1.165	48.0	0.718	1.536	110.6	182.4	---	2.640	-9.02	0.330	83.8	216.5	-9.5	0.311
4- 880	4-1220	0.788	14.6	11.4	4.21	1.168	49.4	0.705	1.549	108.0	184.5	---	2.641	-8.82	0.343	79.3	215.5	-9.7	0.306
4- 880	4-1240	0.768	15.2	12.8	4.95	1.170	50.7	0.693	1.565	105.3	186.6	---	2.648	-8.67	0.357	75.7	214.9	-9.9	0.304
4- 880	4-1260	0.748	15.9	14.4	5.67	1.174	52.1	0.681	1.583	102.5	188.5	---	2.660	-8.59	0.371	72.8	214.9	-10.1	0.303
4- 880	4-1280	0.728	16.6	16.0	6.40	1.177	53.4	0.669	1.603	99.5	190.4	---	2.676	-8.57	0.385	70.5	215.4	-10.3	0.304
4- 880	4-1300	0.709	17.2	17.8	7.13	1.180	54.8	0.658	1.625	96.5	192.2	---	2.694	-8.62	0.399	68.7	216.3	-10.5	0.306
4- 880	4-1320	0.691	17.8	19.7	7.88	1.184	56.1	0.647	1.648	93.4	194.0	---	2.714	-8.72	0.412	67.2	217.6	-10.8	0.309
4- 880	4-1340	0.673	18.4	21.8	8.66	1.188	57.4	0.637	1.671	90.2	195.7	---	2.736	-8.90	0.425	66.0	219.2	-11.1	0.312
4- 880	4-1360	0.656	18.9	24.0	9.48	1.191	58.8	0.627	1.696	87.0	197.3	---	2.759	-9.15	0.436	65.1	221.2	-11.5	0.315
4- 880	4-1380	0.639	19.3	26.5	10.35	1.195	60.1	0.618	1.720	83.6	198.9	---	2.783	-9.49	0.447	64.3	223.5	-12.0	0.319
4- 880	4-1400	0.624	19.6	29.1	11.30	1.198	61.5	0.609	1.746	80.2	200.4	---	2.808	-9.93	0.457	63.7	226.0	-12.6	0.323
4- 880	4-1420	0.611	19.6	32.1	12.36	1.202	62.8	0.600	1.771	76.8	201.9	---	2.834	-10.50	0.466	63.2	228.8	-13.4	0.328
4- 880	4-1440	0.601	19.4	35.3	13.54	1.205	64.1	0.593	1.797	73.3	203.3	---	2.861	-11.22	0.475	62.8	231.8	-14.3	0.333
4- 880	4-1460	0.593	18.7	38.9	14.91	1.208	65.5	0.585	1.822	69.7	204.6	---	2.889	-12.15	0.482	62.5	235.0	-15.4	0.338
4- 880	4-1480	0.590	17.3	42.8	16.54	1.211	66.8	0.579	1.848	66.1	205.9	---	2.917	-13.34	0.489	62.2	238.4	-16.8	0.344
4- 880	4-1500	0.593	14.8	47.1	18.51	1.215	68.1	0.573	1.873	62.5	207.1	---	2.946	-14.91	0.495	62.0	242.1	-18.6	0.352
4- 880	4-1520	0.606	10.5	51.6	21.00	1.217	69.4	0.567	1.899	58.9	208.2	---	2.976	-17.00	0.500	61.8	246.1	-20.8	0.363
4- 880	4-1540	0.634	3.4	55.9	24.29	1.220	70.7	0.563	1.924	55.3	209.3	---	3.006	-19.89	0.505	61.6	250.5	-23.6	0.377
4- 880	4-1560	0.686	352.0	59.3	28.84	1.223	71.9	0.559	1.949	51.7	210.3	---	3.038	-24.06	0.509	61.4	255.6	-27.1	0.400
4- 880	4-1580	0.779	335.8	60.0	35.57	1.226	73.1	0.556	1.974	48.3	211.2	---	3.071	-30.42	0.512	61.2	261.9	-31.4	0.437
4- 890	4-1050	1.167	15.1	3.2	-6.06	1.219	28.6	0.907	1.889	136.8	165.4	---	---	-15.54	0.447	151.8	229.8	-5.4	0.597
4- 890	4-1070	1.112	15.2	4.2	-3.90	1.191	30.9	0.884	1.680	135.4	168.2	---	---	-13.68	0.372	143.2	227.8	-5.8	0.524
4- 890	4-1090	1.068	15.5	5.2	-2.17	1.174	32.9	0.863	1.575	133.6	170.8	---	---	-12.26	0.320	133.1	225.5	-6.1	0.468
4- 890	4-1110	1.030	16.0	6.3	-0.74	1.165	34.8	0.844	1.519	131.6	173.1	---	---	-11.15	0.289	122.0	223.2	-6.4	0.426
4- 890	4-1130	0.997	16.6	7.4	0.48	1.159	36.6	0.827	1.491	129.4	175.4	---	---	-10.27	0.274	110.8	221.0	-6.6	0.395
4- 890	4-1150	0.967	17.2	8.6	1.53	1.157	38.4	0.810	1.479	127.1	177.5	---	---	-9.57	0.272	100.5	218.9	-6.8	0.372
4- 890	4-1170	0.939	18.0	9.7	2.47	1.157	40.0	0.794	1.479	124.5	179.5	---	---	-9.00	0.279	91.8	217.1	-7.0	0.356

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1210	4-1610	0.474	130.3	-38.7	-19.25	1.197	103.2	0.485	1.796	318.9	528.2	0.925	---	22.08	0.456	100.7	330.1	36.8	0.281
4-1210	4-1630	0.432	131.3	-32.4	-16.03	1.196	103.4	0.484	1.787	318.1	531.9	0.922	---	19.34	0.449	97.5	327.7	34.8	0.259
4-1210	4-1650	0.404	132.8	-26.6	-13.52	1.195	103.7	0.485	1.783	317.1	535.4	0.918	---	17.30	0.443	94.4	325.1	32.5	0.244
4-1210	4-1670	0.387	134.8	-21.3	-11.47	1.195	104.2	0.489	1.783	315.8	538.5	0.912	---	15.74	0.439	91.4	322.8	30.2	0.237
4-1210	4-1690	0.378	137.0	-16.4	-9.77	1.196	104.7	0.493	1.787	314.2	541.4	0.905	2.669	14.53	0.436	88.6	321.1	27.9	0.234
4-1210	4-1710	0.375	139.4	-12.0	-8.30	1.196	105.4	0.500	1.793	312.4	544.0	0.897	2.689	13.58	0.433	86.0	319.9	25.7	0.234
4-1210	4-1730	0.378	142.0	-8.1	-7.03	1.197	106.2	0.508	1.801	310.4	546.4	0.887	2.715	12.82	0.431	83.5	319.4	23.6	0.238
4-1210	4-1750	0.385	144.6	-4.7	-5.89	1.199	107.1	0.517	1.810	308.3	548.6	0.875	2.746	12.22	0.430	81.0	319.5	21.7	0.243
4-1210	4-1770	0.395	147.2	-1.8	-4.85	1.200	108.0	0.527	1.821	305.9	550.6	0.862	2.780	11.75	0.429	78.6	320.1	20.0	0.250
4-1210	4-1790	0.409	149.9	0.7	-3.90	1.201	109.1	0.538	1.833	303.4	552.4	0.848	2.819	11.37	0.428	76.3	321.2	18.5	0.259
4-1210	4-1810	0.426	152.5	2.8	-3.01	1.203	110.2	0.549	1.846	300.8	554.0	0.832	2.860	11.08	0.428	74.1	322.7	17.2	0.268
4-1210	4-1830	0.445	155.1	4.5	-2.17	1.205	111.4	0.562	1.860	298.1	555.5	0.814	2.905	10.87	0.428	71.9	324.6	16.0	0.278
4-1210	4-1850	0.466	157.6	5.9	-1.37	1.206	112.7	0.576	1.874	295.3	556.8	0.795	2.953	10.72	0.428	69.7	326.8	15.0	0.288
4-1210	4-1870	0.489	160.1	7.0	-0.59	1.208	114.0	0.590	1.888	292.3	557.9	0.774	3.003	10.64	0.428	67.5	329.2	14.1	0.299
4-1210	4-1890	0.514	162.5	7.8	0.17	1.210	115.5	0.605	1.904	289.2	558.9	0.751	3.056	10.60	0.428	65.3	331.8	13.3	0.311
4-1210	4-1910	0.541	164.9	8.4	0.93	1.212	117.0	0.621	1.919	286.1	559.8	0.727	3.111	10.63	0.429	63.2	334.7	12.6	0.323
4-1210	4-1930	0.570	167.2	8.9	1.68	1.213	118.6	0.638	1.935	282.8	560.5	0.701	3.169	10.70	0.430	61.0	337.7	12.0	0.335
4-1210	4-1950	0.601	169.4	9.2	2.44	1.215	120.2	0.655	1.951	279.5	561.1	0.673	3.229	10.83	0.431	58.8	340.8	11.5	0.348
4-1220	4-1400	0.640	168.0	46.4	16.93	1.406	108.2	0.98558	8.611	323.2	467.7	0.904	---	-18.09	0.875	143.2	343.0	-12.7	0.738
4-1220	4-1420	0.609	177.2	53.5	19.95	1.348	106.0	0.838	5.668	324.8	473.9	0.919	---	-20.63	0.778	139.2	343.7	-16.3	0.640
4-1220	4-1440	0.617	191.9	59.5	23.93	1.307	104.1	0.732	3.478	326.5	480.3	0.932	---	-24.13	0.703	135.0	343.5	-20.9	0.568
4-1220	4-1460	0.670	213.1	62.4	29.44	1.276	102.4	0.654	2.730	328.4	486.6	0.944	---	-29.16	0.644	130.7	341.8	-26.9	0.525
4-1220	4-1480	0.782	235.6	60.0	37.49	1.254	101.0	0.597	2.365	330.4	492.9	0.954	---	-36.75	0.598	126.4	337.7	-33.8	0.518
4-1220	4-1500	0.976	252.2	52.1	49.94	1.237	99.6	0.553	2.156	332.9	499.0	0.964	---	-48.74	0.561	121.9	330.3	-39.5	0.563
4-1220	4-1560	1.127	172.5	-78.3	-59.99	1.210	102.1	0.504	1.886	323.2	515.0	0.936	---	62.53	0.492	111.4	324.5	41.7	0.611
4-1220	4-1580	0.841	137.9	-69.7	-42.69	1.206	101.3	0.490	1.849	325.0	519.7	0.943	---	45.68	0.478	107.5	329.3	43.9	0.471
4-1220	4-1600	0.655	130.6	-60.1	-31.66	1.203	101.0	0.481	1.825	325.7	524.1	0.946	---	35.10	0.467	103.8	331.2	43.4	0.380
4-1220	4-1620	0.537	129.5	-51.4	-24.44	1.201	100.9	0.477	1.810	325.7	528.1	0.947	---	28.32	0.459	100.5	330.9	41.6	0.322
4-1220	4-1640	0.460	130.5	-43.5	-19.43	1.200	101.1	0.476	1.802	325.2	531.8	0.945	---	23.76	0.452	97.3	329.3	39.3	0.285
4-1220	4-1660	0.410	132.4	-36.1	-15.76	1.199	101.4	0.476	1.799	324.2	535.2	0.942	---	20.54	0.447	94.3	327.2	36.7	0.261
4-1220	4-1680	0.378	134.9	-29.3	-12.95	1.199	101.8	0.479	1.800	323.0	538.3	0.937	---	18.19	0.443	91.5	325.2	34.0	0.247
4-1220	4-1700	0.359	137.7	-23.1	-10.71	1.200	102.3	0.484	1.804	321.4	541.2	0.931	2.676	16.41	0.440	88.9	323.6	31.2	0.240
4-1220	4-1720	0.349	140.7	-17.5	-8.87	1.201	103.0	0.489	1.810	319.7	543.8	0.924	2.696	15.04	0.437	86.4	322.4	28.6	0.237
4-1220	4-1740	0.347	143.9	-12.6	-7.31	1.202	103.7	0.496	1.818	317.7	546.2	0.916	2.721	13.96	0.435	84.0	321.9	26.1	0.237
4-1220	4-1760	0.350	147.0	-8.3	-5.97	1.203	104.6	0.504	1.828	315.6	548.4	0.907	2.750	13.11	0.434	81.7	322.0	23.9	0.241
4-1220	4-1780	0.357	150.2	-4.6	-4.78	1.205	105.5	0.513	1.839	313.3	550.3	0.896	2.783	12.43	0.433	79.5	322.6	21.9	0.246
4-1220	4-1800	0.368	153.3	-1.6	-3.72	1.206	106.4	0.523	1.852	310.8	552.2	0.884	2.820	11.88	0.432	77.3	323.6	20.1	0.252
4-1220	4-1820	0.383	156.4	1.0	-2.75	1.208	107.5	0.533	1.865	308.3	553.8	0.870	2.859	11.45	0.432	75.2	325.1	18.6	0.260
4-1220	4-1840	0.399	159.3	3.0	-1.85	1.209	108.6	0.545	1.878	305.6	555.3	0.855	2.902	11.11	0.431	73.1	326.9	17.3	0.268
4-1220	4-1860	0.418	162.1	4.6	-1.01	1.211	109.8	0.557	1.893	302.8	556.7	0.839	2.946	10.84	0.431	71.1	329.0	16.1	0.277
4-1220	4-1880	0.440	164.9	5.9	-0.21	1.212	111.0	0.570	1.907	300.0	557.9	0.821	2.994	10.65	0.432	69.1	331.3	15.1	0.286
4-1220	4-1900	0.463	167.5	6.8	0.55	1.214	112.3	0.583	1.922	297.0	559.0	0.801	3.043	10.52	0.432	67.1	333.9	14.2	0.296
4-1220	4-1920	0.487	170.0	7.5	1.30	1.216	113.7	0.597	1.938	294.0	559.9	0.780	3.095	10.44	0.433	65.1	336.6	13.4	0.307
4-1220	4-1940	0.514	172.5	8.0	2.03	1.218	115.2	0.612	1.953	290.8	560.7	0.757	3.149	10.41	0.434	63.1	339.5	12.7	0.317
4-1220	4-1960	0.542	174.8	8.3	2.75	1.219	116.7	0.628	1.969	287.6	561.4	0.733	3.205	10.43	0.435	61.1	342.6	12.1	0.328
4-1230	4-1390	0.641	164.3	39.1	13.02	1.475	106.9	1.160	-5.748	328.5	461.1	0.921	---	-13.50	0.978	145.7	344.8	-8.9	0.831
4-1230	4-1410	0.572	168.7	45.7	14.74	1.398	104.7	0.956	21.447	330.0	467.4	0.934	---	-14.71	0.858	141.9	346.1	-11.0	0.704
4-1230	4-1430	0.534	175.2	52.6	16.81	1.343	102.7	0.814	5.080	331.7	473.8	0.946	---	-16.30	0.765	138.0	347.1	-13.7	0.605
4-1230	4-1450	0.526	185.4	59.2	19.38	1.303	101.0	0.712	3.316	333.5	480.4	0.956	---	-18.39	0.693	133.8	347.4	-17.4	0.529
4-1230	4-1470	0.546	200.9	64.1	22.69	1.275	99.6	0.638	2.661	335.3	487.0	0.964	---	-21.24	0.636	129.6	346.9	-22.1	0.473
4-1230	4-1490	0.599	221.6	65.9	27.16	1.253	98.4	0.583	2.331	337.2	493.4	0.971	---	-25.26	0.592	125.3	345.0	-27.9	0.440
4-1230	4-1510	0.693	242.3	63.4	33.53	1.238	97.4	0.544	2.139	339.0	499.6	0.977	---	-31.19	0.557	121.0	341.2	-34.6	0.436
4-1230	4-1530	0.850	258.0	56.9	43.19	1.227	96.5	0.514	2.020	340.9	505.5	0.981	---	-40.41	0.530	116.8	335.0	-40.6	0.471
4-1230	4-1550	1.103	268.1	46.4	58.56	1.219	95.5	0.492	1.942	343.2	511.1	0.986	---	-55.35	0.508	112.7	326.9	-43.1	0.565
4-1230	4-1610	0.932	133.3	-78.6	-48.47	1.206	99.0	0.475	1.833	331.8	524.2	0.962	---	52.94	0.468	103.4	328.7	44.7	0.517
4-1230	4-1630	0.693	125.7	-66.8	-34.38	1.204	98.7	0.470	1.820	332.5	528.3	0.964	---	39.27	0.460	100.1	330.7	45.3	0.404
4-1230	4-1650	0.543	126.6	-56.7	-25.49	1.204	98.8	0.469	1.813	332.3	531.9	0.963	---	30.78	0.454	97.0	330.4	43.6	0.334
4-1230	4-1670	0.450	129.3	-47.6	-19.56	1.203	99.0	0.469	1.812	331.5	535.3	0.961	---	25.27	0.449	94.1	329.0	41.0	0.292
4-1230	4-1690	0.390	132.6	-39.1	-15.36	1.204	99.4	0.472	1.813	330.4	538.4	0.958	---	21.49	0.445	91.5	327.3	37.9	0.266
4-1230	4-1710	0.353	136.3	-31.3	-12.23	1.204	99.9	0.476	1.818	328.9	541.2	0.954	2.683	18.78	0.442	88.9	325.8	34.6	0.251
4-1230	4-1730	0.332	140.2	-24.1	-9.79	1.205	100.5	0.481	1.825	327.1	543.7	0.948	2.703	16.77	0.440	86.6	324.8	31.5	0.243
4-1230	4-1750	0.321	144.2	-17.7	-7.82	1.206	101.2	0.487	1.834	325.2	546.1	0.941	2.727	15.23	0.438	84.3	324.3	28.6	0.239
4-1230	4-1770	0.319	148.1	-12.2	-6.19	1.208	102.0	0.494	1.845	323.1	548.2	0.934	2.756	14.04	0.437	82.1	324.3	26.0	0.240
4-1230	4-1790	0.322	152.0	-7.5	-4.79	1.209	102.9	0.502	1.856	320.8	550.2	0.925	2.788	13.09	0.436	80.0	324.9	23.6	0.243
4-1230	4-1810	0.331	155.8	-3.7	-3.58	1.210	103.8	0.511	1.869	318.4	552.0	0.915	2.823	12.34	0.435	78.0	325.9	21.6	0.247
4-1230	4-1830	0.342	159.4	-0.6	-2.50	1.212	104.8	0.520	1.882	315.9	553.7	0.903	2.861	11.73	0.435	76.0	327.3	19.8	0.253
4-1230	4-1850	0.357	162.8	1.9	-1.53	1.214	105.8	0.530	1.896	313.3	555.2	0.891	2.901	11.24	0.435	74.1	329.1	18.3	0.260
4-1230	4-1870	0.374	166.1	3.8	-0.64	1.215	106.9	0.541	1.910	310.5	556.6	0.877	2.944	10.85	0.435	72.2	331.1	17.0	0.267
4-1230	4-1890	0.394	169.2	5.2	0.18	1.217	108.1	0.552	1.925	307.7	557.8	0.862	2.989	10.54	0.435	70.4	333.4	15.8	0.275
4-1230	4-1910	0.415	172.1	6.3	0.96	1.219	109.3	0.564	1.940	304.8	559.0	0.845	3.035	10.30	0.436	68.5	335.9	14.8	0.284
4-1230	4-1930	0.437	174.9	7.1	1.70	1.220	110.6	0.577	1.956	301.9	560.0	0.827	3.084	10.13	0.436	66.7	338.5	13.9	0.293
4-1230	4-1950	0.462	177.5	7.5	2.41	1.222	111.9	0.590	1.971	298.8	560.9	0.808	3.135	10.00	0.437	64.9	341.3	13.2	0.302
4-1230	4-1970	0.487	180.0	7.8	3.10	1.224	113.3	0.604	1.987	295.7	561.7	0.787	3.188	9.93	0.438	63.0	344.3	12.5	0.312
4-1240	4-1400	0.578	165.4	39.9	11.98	1.460	102.9	1.119	-8.009	335.7	461.0	0.950	---	-11.18	0.952	144.4	347.5	-7.8	0.792
4-1240	4-1420	0.512	168.5	46.4	13.25	1.387	100.9	0.92212	8.367	337.4	467.6	0.960	---	-11.96	0.837	140.6	348.8	-9.5	0.669
4-1240	4-1440	0.474	173.0	53.3	14.71	1.336	99.1	0.786	4.522	339.3	474.3	0.969	---	-12.95	0.749	136.6	349.8	-11.6	0.572
4-1240	4-1460	0.459	179.8	60.0	16.45	1.299	97.6	0.689	3.136	341.2	481.2	0.975	---	-14.23	0.680	132.5	350.4	-14.4	0.495
4-1240	4-1480	0.465	190.6	65.6	18.57	1.272	96.4	0.619	2.577	343.2	487.9	0.981	---	-15.92	0.626	128.3	350.2	-18.0	0.436
4-1240	4-1500	0.490	207.0	69.4	21.25	1.252	95.5	0.569	2.285	344.9	494.4	0.985	---	-18.17	0.584	124.0	349.2	-22.6	0.393
4-1240	4-1520	0.537	227.7	70.3	24.79	1.238	94.7	0.533	2.114	346.5	500.7	0.988	---	-21.29	0.551	119.9	347.0	-28.2	0.367

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1240	4-1540	0.614	247.5	67.9	29.70	1.228	94.1	0.507	2.005	347.9	506.5	0.990	---	-25.79	0.525	115.8	343.5	-34.5	0.363
4-1240	4-1560	0.735	262.4	62.5	36.96	1.220	93.6	0.488	1.935	349.1	512.0	0.991	---	-32.66	0.505	111.9	338.2	-40,7	0.388
4-1240	4-1580	0.931	272.8	53.9	48.49	1.215	93.1	0.474	1.888	350.4	517.2	0.993	---	-43.79	0.490	108.1	331.8	-44.6	0.458
4-1240	4-1600	1.242	280.1	41.4	67.49	1.211	92.4	0.465	1.857	352.3	522.0	0.994	---	-62.41	0.477	104.4	326.1	-43.6	0.594
4-1240	4-1640	1.073	81.3	-86.9	-57.04	1.208	96.9	0.467	1.827	338.3	528.6	0.975	---	62.88	0.460	99.7	329.4	43.6	0.586
4-1240	4-1660	0.755	114.0	-72.9	-38.25	1.207	96.5	0.464	1.822	339.2	532.3	0.977	---	44.47	0.455	96.6	331.1	46.1	0.439
4-1240	4-1680	0.560	121.0	-61.2	-26.86	1.207	96.6	0.464	1.822	338.9	535.6	0.976	---	33.45	0.450	93.8	330.7	44.9	0.351
4-1240	4-1700	0.442	126.6	-50.8	-19.68	1.207	97.0	0.466	1.825	338.0	538.6	0.974	---	26.64	0.447	91.2	329.4	41.9	0.300
4-1240	4-1720	0.371	131.9	-41.1	-14.82	1.208	97.4	0.470	1.831	336.6	541.4	0.971	2.691	22.16	0.444	88.8	328.0	38.3	0.270
4-1240	4-1740	0.328	137.2	-32.1	-11.33	1.209	98.0	0.474	1.839	334.9	543.9	0.967	2.711	19.04	0.442	86.5	326.9	34.6	0.254
4-1240	4-1760	0.305	142.4	-23.9	-8.69	1.210	98.7	0.480	1.848	332.9	546.2	0.962	2.735	16.78	0.441	84.4	326.4	31.1	0.245
4-1240	4-1780	0.294	147.4	-16.7	-6.61	1.212	99.4	0.486	1.860	330.8	548.3	0.956	2.763	15.08	0.439	82.3	326.4	28.0	0.241
4-1240	4-1800	0.292	152.3	-10.6	-4.91	1.213	100.3	0.493	1.872	328.6	550.2	0.949	2.795	13.77	0.439	80.3	327.0	25.3	0.241
4-1240	4-1820	0.296	157.0	-5.6	-3.49	1.215	101.1	0.501	1.885	326.2	552.0	0.941	2.829	12.74	0.438	78.4	328.0	22.9	0.244
4-1240	4-1840	0.305	161.4	-1.7	-2.27	1.216	102.1	0.509	1.898	323.7	553.7	0.932	2.865	11.92	0.438	76.6	329.4	20.8	0.248
4-1240	4-1860	0.318	165.5	1.4	-1.20	1.218	103.1	0.518	1.913	321.1	555.2	0.921	2.904	11.26	0.438	74.8	331.1	19.1	0.253
4-1240	4-1880	0.334	169.3	3.7	-0.24	1.219	104.1	0.528	1.927	318.4	556.6	0.910	2.944	10.73	0.438	73.1	333.1	17.5	0.259
4-1240	4-1900	0.351	172.9	5.3	0.62	1.221	105.2	0.538	1.942	315.6	557.8	0.898	2.987	10.30	0.438	71.4	335.3	16.2	0.266
4-1240	4-1920	0.370	176.2	6.5	1.41	1.223	106.4	0.549	1.958	312.8	559.0	0.884	3.031	9.96	0.439	69.6	337.7	15.1	0.273
4-1240	4-1940	0.391	179.3	7.3	2.15	1.224	107.6	0.560	1.973	309.9	560.1	0.869	3.078	9.68	0.439	68.0	340.4	14.1	0.281
4-1240	4-1960	0.414	182.2	7.8	2.85	1.226	108.8	0.572	1.989	306.9	561.0	0.852	3.125	9.47	0.440	66.3	343.1	13.3	0.289
4-1240	4-1980	0.437	184.9	8.0	3.51	1.228	110.1	0.584	2.005	303.9	561.9	0.834	3.175	9.31	0.441	64.6	346.0	12.5	0.297
4-1250	4-1390	0.615	163.1	35.9	10.40	1.540	100.5	1.347	-2.785	341.8	454.9	0.966	---	-8.73	1.068	146.6	348.4	-5.7	0.904
4-1250	4-1410	0.522	164.6	41.9	11.26	1.443	98.5	1.069	14.160	343.5	461.5	0.973	---	-9.10	0.923	143.1	349.8	-6.7	0.752
4-1250	4-1430	0.462	166.2	48.5	12.20	1.376	96.8	0.883	8.366	345.5	468.4	0.979	---	-9.58	0.814	139.3	351.1	-8.0	0.634
4-1250	4-1450	0.427	168.5	55.4	13.26	1.328	95.3	0.755	4.014	347.6	475.5	0.984	---	-10.19	0.730	135.3	352.0	-9.7	0.539
4-1250	4-1470	0.411	172.1	61.9	14.46	1.293	94.1	0.665	2.947	349.8	482.6	0.988	---	-10.97	0.664	131.1	352.5	-11.8	0.464
4-1250	4-1490	0.410	178.5	67.7	15.86	1.268	93.1	0.601	2.481	351.8	489.5	0.991	---	-11.97	0.614	126.9	352.4	-14:6	0.405
4-1250	4-1510	0.421	189.4	72.4	17.55	1.250	92.3	0.555	2.230	353.6	496.1	0.992	---	-13.26	0.574	122.7	351.6	-18.0	0.358
4-1250	4-1530	0.446	206.7	75.4	19.64	1.237	91.7	0.523	2.080	355.0	502.3	0.993	---	-14.98	0.543	118.6	350.0	-22.3	0.325
4-1250	4-1550	0.484	229.1	75.8	22.34	1.228	91.3	0.499	1.984	356.1	508.1	0.994	---	-17.31	0.519	114.6	347.5	-27.4	0.305
4-1250	4-1570	0.543	249.8	73.6	25.99	1.221	91.0	0.483	1.922	356.9	513.5	0.994	---	-20.60	0.500	110.8	343.9	-33.2	0.300
4-1250	4-1590	0.632	264.9	69.0	31.23	1.217	90.9	0.472	1.881	357.3	518.4	0.994	---	-25.50	0.486	107.2	339.5	-39.2	0.316
4-1250	4-1610	0.773	275.6	62.2	39.37	1.213	90.7	0.464	1.855	357.7	522.9	0.994	---	-33.29	0.475	103.8	334.6	-44.1	0.364
4-1250	4-1630	1.008	283.8	52.1	53.08	1.212	90.6	0.459	1.839	358.2	527.1	0.994	---	-46.67	0.466	100.5	330.4	-46.1	0.462
4-1250	4-1650	1.386	290.7	37.1	76.80	1.210	90.1	0.457	1.831	359.7	531.2	0.994	---	-70.05	0.460	97.3	328.8	-42.2	0.638
4-1250	4-1690	0.862	87.3	-77.5	-44.50	1.210	94.4	0.462	1.829	345.9	536.1	0.985	---	51.90	0.450	93.3	333.0	45.8	0.494
4-1250	4-1710	0.592	112.1	-64.8	-28.95	1.211	94.5	0.463	1.834	345.6	539.1	0.984	---	36.67	0.447	90.8	332.0	45.5	0.374
4-1250	4-1730	0.439	122.7	-52.9	-19.87	1.212	94.9	0.466	1.841	344.5	541.8	0.983	2.699	27.92	0.445	88.4	330.4	42.3	0.309
4-1250	4-1750	0.352	130.7	-41.8	-14.14	1.213	95.5	0.470	1.850	342.8	544.2	0.980	2.719	22.50	0.443	86.3	329.1	38.1	0.274
4-1250	4-1770	0.303	137.8	-31.4	-10.22	1.214	96.1	0.475	1.860	340.9	546.5	0.977	2.744	18.90	0.442	84.2	328.4	33.9	0.255
4-1250	4-1790	0.278	144.4	-21.9	-7.36	1.215	96.8	0.481	1.872	338.8	548.5	0.973	2.772	16.37	0.441	82.3	328.4	30.1	0.246
4-1250	4-1810	0.267	150.7	-13.8	-5.18	1.217	97.6	0.487	1.885	336.5	550.4	0.967	2.803	14.52	0.441	80.4	328.9	26.8	0.242
4-1250	4-1830	0.267	156.5	-7.2	-3.44	1.219	98.5	0.494	1.899	334.1	552.1	0.961	2.836	13.11	0.440	78.7	329.8	23.9	0.242
4-1250	4-1850	0.273	162.0	-2.0	-2.02	1.220	99.4	0.501	1.913	331.6	553.8	0.954	2.871	12.02	0.440	76.9	331.2	21.5	0.244
4-1250	4-1870	0.283	167.0	1.8	-0.81	1.222	100.3	0.509	1.928	329.0	555.2	0.947	2.909	11.15	0.440	75.3	332.9	19.5	0.247
4-1250	4-1890	0.297	171.6	4.6	0.22	1.223	101.3	0.517	1.943	326.3	556.6	0.938	2.948	10.46	0.441	73.6	334.9	17.7	0.252
4-1250	4-1910	0.313	175.9	6.5	1.14	1.225	102.4	0.526	1.958	323.6	557.9	0.927	2.989	9.90	0.441	72.0	337.1	16.3	0.258
4-1250	4-1930	0.331	179.7	7.8	1.95	1.227	103.5	0.536	1.974	320.8	559.1	0.916	3.031	9.45	0.442	70.5	339.5	15.0	0.264
4-1250	4-1950	0.350	183.3	8.6	2.70	1.228	104.6	0.546	1.989	317.9	560.2	0.904	3.075	9.08	0.442	68.9	342.1	13.9	0.270
4-1250	4-1970	0.370	186.5	9.0	3.38	1.230	105.8	0.556	2.005	315.0	561.2	0.890	3.120	8.78	0.443	67.4	344.8	13.0	0.277
4-1250	4-1990	0.392	189.5	9.1	4.02	1.232	107.0	0.567	2.021	312.0	562.1	0.875	3.167	8.55	0.444	65.8	347.7	12.2	0.284
4-1260	4-1400	0.560	161.1	38.7	10.14	1.514	95.6	1.271	-3.634	350.0	455.7	0.983	---	-6.97	1.028	145.4	350.5	-4.7	0.856
4-1260	4-1420	0.477	160.9	45.0	10.78	1.424	94.0	1.011	86.757	352.1	462.8	0.987	---	-7.17	0.891	141.8	351.8	-5.6	0.711
4-1260	4-1440	0.425	160.4	51.6	11.47	1.362	92.5	0.840	6.167	354.4	470.1	0.990	---	-7.44	0.787	137.9	352.9	-6.6	0.598
4-1260	4-1460	0.395	159.8	58.1	12.22	1.318	91.3	0.722	3.566	356.9	477.5	0.991	---	-7.79	0.708	133.9	353.7	-7.8	0.508
4-1260	4-1480	0.380	159.5	64.1	13.05	1.286	90.3	0.640	2.758	359.3	484.8	0.992	---	-8.25	0.646	129.7	354.0	-9.4	0.435
4-1260	4-1500	0.376	160.5	69.5	13.99	1.264	89.5	0.583	2.379	1.4	131.8	---	---	-8.82	0.599	125.4	353.7	-11.4	0.377
4-1260	4-1520	0.381	163.7	74.1	15.07	1.247	88.9	0.543	2.167	3.1	138.4	---	---	-9.56	0.562	121.2	352.9	-14.0	0.331
4-1260	4-1540	0.393	171.5	77.9	16.34	1.235	88.5	0.514	2.039	4.4	144.6	---	---	-10.50	0.533	117.1	351.3	-17.0	0.295
4-1260	4-1560	0.412	187.7	80.7	17.89	1.227	88.3	0.494	1.957	5.3	150.3	---	---	-11.73	0.511	113.2	348.9	-20.8	0.269
4-1260	4-1580	0.441	214.7	81.8	19.85	1.221	88.1	0.480	1.903	5.7	155.4	---	---	-13.38	0.494	109.5	345.9	-25.2	0.254
4-1260	4-1600	0.482	243.1	80.4	22.42	1.217	88.2	0.470	1.869	5.7	160.1	---	---	-15.66	0.481	106.0	342.3	-30.1	0.249
4-1260	4-1620	0.541	262.5	76.7	26.01	1.215	88.3	0.464	1.848	5.5	164.4	---	---	-18.96	0.471	102.7	338.4	-35.4	0.258
4-1260	4-1640	0.634	275.0	71.2	31.38	1.213	88.4	0.460	1.836	4.9	168.3	---	---	-24.04	0.463	99.6	334.8	-40.7	0.286
4-1260	4-1660	0.789	284.4	63.4	40.23	1.213	88.6	0.459	1.830	4.4	171.9	---	---	-32.61	0.457	96.8	332.1	-45.0	0.346
4-1260	4-1680	1.067	292.8	51.7	56.52	1.213	88.7	0.458	1.830	4.2	175.2	---	---	-48.63	0.453	94.0	331.7	-46.2	0.470
4-1260	4-1720	1.062	37.7	-76.8	-56.20	1.214	92.4	0.462	1.839	352.2	539.7	0.989	---	64.63	0.447	90.3	336.9	43.4	0.588
4-1260	4-1740	0.655	98.7	-67.6	-32.61	1.215	92.5	0.465	1.848	352.2	542.4	0.989	2.707	41.30	0.445	87.9	334.7	45.8	0.410
4-1260	4-1760	0.443	117.9	-54.1	-20.27	1.216	92.9	0.468	1.858	350.9	544.8	0.988	2.729	29.22	0.444	85.8	332.2	42.4	0.320
4-1260	4-1780	0.334	129.3	-40.9	-13.24	1.217	93.5	0.473	1.870	349.1	546.9	0.986	2.754	22.45	0.443	83.9	330.8	37.4	0.277
4-1260	4-1800	0.278	138.5	-28.4	-8.79	1.219	94.2	0.478	1.883	347.0	548.9	0.984	2.782	18.26	0.442	82.0	330.3	32.5	0.255
4-1260	4-1820	0.252	146.7	-17.2	-5.72	1.220	95.0	0.483	1.897	344.7	550.7	0.980	2.813	15.45	0.442	80.3	330.6	28.3	0.245
4-1260	4-1840	0.244	154.2	-8.2	-3.46	1.222	95.8	0.489	1.911	342.3	552.4	0.976	2.845	13.46	0.442	78.6	331.5	24.7	0.241
4-1260	4-1860	0.246	161.0	-1.2	-1.73	1.224	96.7	0.496	1.926	339.8	554.0	0.971	2.880	11.99	0.442	77.0	332.9	21.8	0.241
4-1260	4-1880	0.254	167.2	3.7	-0.33	1.225	97.6	0.502	1.941	337.2	555.4	0.966	2.916	10.87	0.442	75.5	334.6	19.4	0.243
4-1260	4-1900	0.266	172.9	7.1	0.82	1.227	98.6	0.510	1.957	334.5	556.8	0.959	2.954	9.99	0.443	74.0	336.5	17.4	0.246
4-1260	4-1920	0.280	177.9	9.4	1.79	1.229	99.6	0.518	1.972	331.7	558.0	0.951	2.993	9.29	0.443	72.5	338.8	15.8	0.251
4-1260	4-1940	0.296	182.5	10.7	2.63	1.230	100.6	0.526	1.988	328.9	559.2	0.943	3.034	8.73	0.444	71.0	341.2	14.4	0.256
4-1260	4-1960	0.314	186.6	11.4	3.38	1.232	101.7	0.535	2.004	326.1	560.3	0.933	3.076	8.27	0.445	69.6	343.7	13.3	0.261

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1320	4-1480	0.662	115.9	41.7	11.62	1.285	61.4	0.727	2.614	69.7	135.6	---	---	4.23	0.631	136.7	349.3	3.7	0.497
4-1320	4-1500	0.631	114.0	41.9	11.23	1.254	62.0	0.674	2.170	72.2	143.1	---	---	4.08	0.564	131.3	348.0	4.1	0.421
4-1320	4-1520	0.608	113.0	41.9	10.87	1.234	62.6	0.638	1.956	73.7	149.5	---	---	3.98	0.515	125.8	346.1	4.6	0.363
4-1320	4-1540	0.589	112.6	41.8	10.52	1.221	63.2	0.613	1.839	74.2	154.9	---	---	3.91	0.481	120.3	343.8	5.1	0.318
4-1320	4-1560	0.572	112.7	41.7	10.19	1.212	63.8	0.596	1.772	74.1	159.7	---	---	3.87	0.456	115.1	341.1	5.6	0.285
4-1320	4-1580	0.556	113.3	41.6	9.86	1.207	64.5	0.582	1.735	73.3	163.8	---	---	3.86	0.439	110.2	338.1	6.1	0.260
4-1320	4-1600	0.541	114.2	41.4	9.54	1.205	65.2	0.571	1.715	72.1	167.4	---	---	3.87	0.428	105.8	335.0	6.6	0.241
4-1320	4-1620	0.526	115.3	41.2	9.21	1.203	65.9	0.562	1.707	70.6	170.6	---	---	3.92	0.421	101.7	332.1	7.1	0.229
4-1320	4-1640	0.511	116.7	41.0	8.87	1.204	66.7	0.555	1.708	68.7	173.4	---	---	3.99	0.417	98.1	329.6	7.5	0.221
4-1320	4-1660	0.496	118.3	40.7	8.53	1.204	67.5	0.549	1.714	66.6	176.0	---	---	4.09	0.415	94.8	327.6	7.8	0.216
4-1320	4-1680	0.481	120.1	40.3	8.17	1.206	68.4	0.544	1.725	64.3	178.4	---	---	4.22	0.414	92.0	326.1	8.2	0.214
4-1320	4-1700	0.466	122.0	39.8	7.78	1.208	69.2	0.539	1.738	61.9	180.5	---	2.675	4.39	0.415	89.4	325.1	8.6	0.214
4-1320	4-1720	0.451	124.0	39.2	7.37	1.210	70.1	0.535	1.754	59.4	182.5	---	2.693	4.61	0.416	87.1	324.7	8.9	0.215
4-1320	4-1740	0.435	126.1	38.3	6.91	1.212	71.0	0.532	1.772	56.8	184.4	---	2.714	4.87	0.418	85.1	324.8	9.4	0.217
4-1320	4-1760	0.420	128.2	37.3	6.40	1.215	71.9	0.529	1.790	54.1	186.1	---	2.738	5.20	0.420	83.2	325.4	9.9	0.219
4-1320	4-1780	0.404	130.5	35.9	5.83	1.217	72.8	0.527	1.810	51.3	187.7	---	2.764	5.60	0.422	81.6	326.3	10.6	0.222
4-1320	4-1800	0.388	132.7	34.1	5.16	1.220	73.7	0.525	1.830	48.5	189.3	---	2.792	6.10	0.425	80.1	327.6	11.3	0.226
4-1320	4-1820	0.371	134.8	31.7	4.36	1.222	74.6	0.524	1.851	45.7	190.7	---	2.821	6.73	0.427	78.7	329.2	12.3	0.230
4-1320	4-1840	0.355	136.8	28.5	3.39	1.225	75.6	0.523	1.872	42.9	192.1	---	2.851	7.55	0.429	77.4	331.1	13.6	0.234
4-1320	4-1860	0.339	138.5	24.0	2.16	1.227	76.5	0.522	1.893	40.0	193.4	---	2.882	8.63	0.432	76.2	333.2	15.2	0.240
4-1320	4-1880	0.324	139.6	17.8	0.54	1.230	77.4	0.522	1.914	37.2	194.6	---	2.914	10.11	0.434	75.1	335.6	17.4	0.247
4-1320	4-1900	0.314	139.7	8.7	-1.73	1.232	78.4	0.522	1.935	34.3	195.8	---	2.946	12.23	0.436	74.0	338.4	20.3	0.256
4-1320	4-1920	0.318	137.8	-4.8	-5.15	1.234	79.3	0.523	1.956	31.6	197.0	---	2.980	15.52	0.438	73.0	341.8	24.4	0.271
4-1320	4-1940	0.361	131.6	-23.7	-10.94	1.236	80.2	0.524	1.977	28.9	198.1	---	3.013	21.16	0.441	72.0	346.3	30.3	0.300
4-1320	4-1960	0.520	114.0	-44.4	-22.54	1.238	81.0	0.526	1.998	26.4	199.2	---	3.048	32.63	0.443	71.0	354.2	38.0	0.367
4-1320	4-1980	1.011	70.6	-51.3	-51.57	1.240	81.5	0.528	2.018	24.7	200.3	---	3.085	61.53	0.445	70.0	10.5	41.2	0.559
4-1320	4-2000	1.382	340.4	60.2	74.61	1.242	84.3	0.525	2.039	16.7	201.0	---	3.108	-64.78	0.447	69.8	15.4	-41.0	0.579
4-1320	4-2020	0.875	294.1	74.3	43.85	1.244	84.8	0.528	2.059	15.2	202.1	---	3.146	-34.16	0.450	68.8	3.8	-38.4	0.379
4-1320	4-2040	0.661	251.7	73.2	31.67	1.246	85.6	0.531	2.078	12.7	203.0	---	3.182	-22.10	0.452	67.9	0.8	-30.3	0.312
4-1320	4-2060	0.555	234.4	68.3	25.68	1.248	86.5	0.534	2.098	10.1	204.0	---	3.217	-16.24	0.454	67.0	1.5	-24.0	0.288
4-1330	4-1470	0.797	118.7	38.7	13.18	1.302	54.1	0.797	2.957	83.2	136.6	---	---	6.90	0.665	142.5	347.2	4.9	0.575
4-1330	4-1490	0.751	117.1	38.7	12.48	1.261	55.2	0.735	2.254	85.8	144.2	---	---	6.51	0.580	136.8	345.9	5.4	0.482
4-1330	4-1510	0.717	116.2	38.6	11.85	1.235	56.1	0.694	1.963	87.2	150.5	---	---	6.20	0.518	130.8	344.0	5.9	0.412
4-1330	4-1530	0.689	116.0	38.4	11.28	1.218	57.1	0.666	1.816	87.7	155.9	---	---	5.97	0.475	124.8	341.8	6.5	0.360
4-1330	4-1550	0.666	116.3	38.2	10.75	1.207	58.0	0.645	1.736	87.3	160.5	---	---	5.79	0.444	118.9	339.1	7.1	0.320
4-1330	4-1570	0.645	116.9	37.9	10.24	1.201	58.8	0.629	1.692	86.4	164.4	---	---	5.66	0.424	113.2	336.3	7.6	0.290
4-1330	4-1590	0.626	117.7	37.6	9.76	1.198	59.8	0.616	1.670	85.1	167.9	---	---	5.58	0.411	108.1	333.4	8.1	0.269
4-1330	4-1610	0.607	118.8	37.2	9.30	1.196	60.7	0.605	1.661	83.3	170.9	---	---	5.54	0.403	103.4	330.7	8.6	0.254
4-1330	4-1630	0.589	120.1	36.8	8.84	1.197	61.6	0.596	1.662	81.3	173.6	---	---	5.54	0.399	99.2	328.3	9.0	0.244
4-1330	4-1650	0.572	121.5	36.4	8.38	1.198	62.5	0.588	1.669	79.1	176.1	---	---	5.58	0.398	95.5	326.4	9.3	0.237
4-1330	4-1670	0.554	123.0	35.8	7.92	1.199	63.5	0.580	1.680	76.7	178.4	---	---	5.66	0.398	92.3	325.0	9.7	0.234
4-1330	4-1690	0.537	124.7	35.2	7.44	1.202	64.5	0.574	1.695	74.2	180.4	---	2.668	5.77	0.400	89.4	324.1	10.0	0.232
4-1330	4-1710	0.520	126.4	34.5	6.95	1.204	65.4	0.568	1.713	71.6	182.3	---	2.685	5.93	0.402	86.9	323.7	10.3	0.232
4-1330	4-1730	0.502	128.1	33.6	6.44	1.207	66.4	0.563	1.732	68.9	184.1	---	2.707	6.13	0.405	84.7	323.9	10.6	0.233
4-1330	4-1750	0.485	129.9	32.5	5.89	1.209	67.4	0.558	1.752	66.1	185.8	---	2.730	6.38	0.408	82.8	324.5	11.1	0.235
4-1330	4-1770	0.468	131.7	31.3	5.30	1.212	68.4	0.554	1.773	63.3	187.4	---	2.756	6.69	0.411	81.0	325.4	11.5	0.237
4-1330	4-1790	0.451	133.5	29.7	4.65	1.215	69.4	0.551	1.795	60.4	188.8	---	2.784	7.08	0.415	79.5	326.7	12.1	0.239
4-1330	4-1810	0.434	135.3	27.8	3.92	1.218	70.3	0.548	1.818	57.5	190.3	---	2.813	7.55	0.418	78.1	328.3	12.8	0.242
4-1330	4-1830	0.417	137.0	25.5	3.10	1.221	71.3	0.545	1.840	54.7	191.6	---	2.843	8.13	0.421	76.8	330.1	13.6	0.246
4-1330	4-1850	0.400	138.6	22.6	2.15	1.223	72.3	0.543	1.863	51.8	192.9	---	2.874	8.84	0.424	75.6	332.2	14.7	0.249
4-1330	4-1870	0.384	140.0	18.9	1.03	1.226	73.3	0.541	1.886	48.9	194.1	---	2.906	9.74	0.427	74.5	334.5	15.9	0.254
4-1330	4-1890	0.370	141.0	14.1	-0.34	1.229	74.2	0.540	1.908	46.0	195.3	---	2.938	10.90	0.430	73.5	337.0	17.5	0.259
4-1330	4-1910	0.359	141.5	7.9	-2.05	1.231	75.2	0.539	1.931	43.1	196.4	---	2.971	12.40	0.433	72.5	339.7	19.5	0.266
4-1330	4-1930	0.354	141.1	-0.2	-4.30	1.234	76.1	0.538	1.953	40.3	197.5	---	3.004	14.44	0.435	71.6	342.8	22.0	0.275
4-1330	4-1950	0.361	139.2	-10.9	-7.38	1.236	77.1	0.538	1.975	37.5	198.6	---	3.038	17.32	0.438	70.7	346.3	25.3	0.288
4-1330	4-1970	0.394	134.5	-24.0	-11.89	1.238	78.0	0.538	1.997	34.8	199.6	---	3.072	21.64	0.441	69.9	350.6	29.5	0.310
4-1330	4-1990	0.482	124.2	-38.2	-19.11	1.240	78.8	0.539	2.019	32.2	200.6	---	3.107	28.66	0.443	69.0	356.4	34.7	0.349
4-1330	4-2010	0.685	103.1	-48.8	-32.01	1.242	79.6	0.540	2.040	30.0	201.6	---	3.142	41.38	0.446	68.2	5.6	39.8	0.427
4-1330	4-2030	1.106	71.2	-47.2	-57.02	1.244	80.0	0.543	2.061	28.7	202.6	---	3.180	66.20	0.449	67.2	19.9	40.0	0.589
4-1330	4-2050	1.538	355.2	58.9	84.97	1.246	83.9	0.535	2.081	17.5	203.2	---	3.194	-75.98	0.451	67.5	27.3	-38.5	0.649
4-1330	4-2070	1.081	322.0	73.1	55.74	1.248	84.2	0.539	2.101	16.6	204.2	---	3.233	-46.93	0.454	66.5	18.1	-41.0	0.463
4-1340	4-1480	0.898	120.5	36.2	14.79	1.274	47.3	0.808	2.442	99.9	145.9	---	---	9.82	0.609	143.9	343.6	6.2	0.566
4-1340	4-1500	0.847	119.8	36.0	13.71	1.238	48.8	0.762	2.000	101.2	152.1	---	---	9.09	0.528	137.5	341.9	6.8	0.478
4-1340	4-1520	0.808	119.8	35.7	12.76	1.215	50.1	0.730	1.802	101.4	157.2	---	---	8.53	0.471	130.8	339.7	7.3	0.414
4-1340	4-1540	0.775	120.1	35.4	11.93	1.202	51.4	0.706	1.701	100.8	161.5	---	---	8.09	0.432	124.1	337.2	7.9	0.366
4-1340	4-1560	0.748	120.8	35.0	11.17	1.194	52.6	0.687	1.647	99.7	165.2	---	---	7.75	0.406	117.5	334.5	8.5	0.330
4-1340	4-1580	0.723	121.7	34.5	10.48	1.189	53.7	0.671	1.620	98.1	168.5	---	---	7.49	0.390	111.4	331.7	9.0	0.304
4-1340	4-1600	0.700	122.8	34.1	9.83	1.188	54.9	0.657	1.610	96.2	171.3	---	---	7.29	0.381	105.8	329.2	9.4	0.285
4-1340	4-1620	0.678	124.1	33.6	9.21	1.188	56.0	0.645	1.610	94.0	173.9	---	---	7.16	0.376	100.8	327.0	9.7	0.272
4-1340	4-1640	0.657	125.4	33.0	8.62	1.189	57.1	0.635	1.617	91.7	176.2	---	---	7.08	0.376	96.5	325.2	10.1	0.264
4-1340	4-1660	0.637	126.8	32.4	8.04	1.191	58.2	0.625	1.630	89.1	178.4	---	---	7.05	0.377	92.7	323.9	10.3	0.258
4-1340	4-1680	0.617	128.3	31.7	7.47	1.194	59.3	0.616	1.646	86.5	180.3	---	2.661	7.06	0.380	89.5	323.1	10.6	0.255
4-1340	4-1700	0.598	129.8	30.9	6.90	1.196	60.4	0.608	1.665	83.8	182.2	---	2.678	7.13	0.384	86.6	322.8	10.8	0.253
4-1340	4-1720	0.579	131.4	30.0	6.32	1.200	61.5	0.601	1.686	81.0	183.9	---	2.699	7.23	0.388	84.2	323.0	11.1	0.253
4-1340	4-1740	0.560	132.9	29.0	5.73	1.203	62.6	0.594	1.708	78.1	185.5	---	2.723	7.39	0.392	82.1	323.6	11.4	0.253
4-1340	4-1760	0.541	134.5	27.9	5.12	1.206	63.7	0.588	1.731	75.2	187.0	---	2.750	7.59	0.397	80.2	324.5	11.7	0.254
4-1340	4-1780	0.523	136.1	26.5	4.47	1.209	64.7	0.583	1.755	72.3	188.4	---	2.778	7.85	0.401	78.6	325.8	12.1	0.256
4-1340	4-1800	0.504	137.6	25.0	3.78	1.212	65.8	0.578	1.779	69.4	189.8	---	2.807	8.18	0.406	77.1	327.4	12.6	0.258
4-1340	4-1820	0.486	139.1	23.2	3.04	1.215	66.8	0.574	1.803	66.4	191.1	---	2.837	8.58	0.410	75.8	329.2	13.2	0.260
4-1340	4-1840	0.469	140.6	21.0	2.23	1.219	67.9	0.570	1.828	63.5	192.3	---	2.868	9.07	0.414	74.7	331.2	13.9	0.262

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1680	4-2100	0.473	257.3	21.9	16.10	1.237	104.5	0.549	1.984	318.3	524.7	0.895	---	-6.58	0.418	107.1	91.3	-13.3	0.199
4-1680	4-2120	0.461	256.8	20.3	15.25	1.235	104.5	0.544	1.961	318.0	528.1	0.894	---	-5.83	0.409	103.5	88.4	-12.5	0.187
4-1680	4-2140	0.453	256.5	18.8	14.56	1.233	104.7	0.541	1.946	317.4	531.3	0.892	---	-5.25	0.402	100.0	85.3	-11.8	0.178
4-1680	4-2160	0.449	256.5	17.3	14.01	1.232	104.9	0.540	1.936	316.7	534.3	0.890	---	-4.80	0.397	96.6	82.1	-11.1	0.172
4-1680	4-2180	0.447	256.6	15.8	13.54	1.231	105.2	0.541	1.930	315.9	537.1	0.886	---	-4.43	0.394	93.4	79.0	-10.3	0.169
4-1680	4-2200	0.447	256.8	14.4	13.13	1.231	105.6	0.543	1.927	314.8	539.8	0.881	---	-4.14	0.392	90.2	76.4	-9.6	0.169
4-1680	4-2220	0.449	257.3	12.9	12.78	1.231	106.0	0.545	1.927	313.7	542.3	0.876	2.978	-3.89	0.391	87.2	74.1	-8.9	0.171
4-1680	4-2240	0.452	257.8	11.4	12.46	1.231	106.5	0.549	1.929	312.3	544.7	0.870	2.989	-3.69	0.392	84.4	72.4	-8.3	0.175
4-1680	4-2260	0.458	258.4	9.9	12.17	1.232	107.1	0.554	1.933	310.9	546.9	0.862	3.004	-3.53	0.393	81.6	71.2	-7.6	0.180
4-1680	4-2280	0.464	259.1	8.5	11.91	1.232	107.7	0.560	1.938	309.3	549.0	0.854	3.023	-3.39	0.395	79.0	70.5	-7.0	0.187
4-1680	4-2300	0.473	260.0	7.0	11.67	1.233	108.5	0.566	1.945	307.5	550.9	0.844	3.046	-3.27	0.398	76.5	70.3	-6.5	0.194
4-1680	4-2320	0.482	260.8	5.5	11.44	1.234	109.2	0.573	1.953	305.7	552.7	0.834	3.071	-3.17	0.401	74.0	70.6	-6.1	0.202
4-1680	4-2340	0.494	261.8	4.0	11.22	1.234	110.1	0.581	1.961	303.7	554.5	0.822	3.100	-3.10	0.404	71.7	71.3	-5.6	0.211
4-1680	4-2360	0.506	262.9	2.6	11.01	1.235	111.0	0.589	1.970	301.6	556.1	0.810	3.131	-3.03	0.409	69.4	72.4	-5.3	0.220
4-1680	4-2380	0.520	264.0	1.1	10.81	1.236	112.0	0.598	1.980	299.3	557.5	0.796	3.164	-2.99	0.413	67.2	73.8	-4.9	0.230
4-1680	4-2400	0.536	265.1	-0.3	10.62	1.238	113.0	0.608	1.990	297.0	558.9	0.780	3.200	-2.95	0.418	65.1	75.4	-4.6	0.241
4-1680	4-2420	0.553	266.4	-1.7	10.42	1.239	114.1	0.619	2.001	294.5	560.2	0.763	3.239	-2.93	0.423	63.0	77.4	-4.4	0.252
4-1680	4-2440	0.572	267.7	-3.1	10.23	1.240	115.3	0.630	2.012	291.9	561.3	0.745	3.280	-2.92	0.429	61.0	79.6	-4.1	0.264
4-1680	4-2460	0.592	269.0	-4.4	10.03	1.241	116.6	0.642	2.024	289.1	562.4	0.725	3.323	-2.93	0.435	59.0	82.0	-3.9	0.277
4-1680	4-2480	0.614	270.5	-5.7	9.84	1.242	118.0	0.655	2.036	286.2	563.3	0.703	3.369	-2.94	0.440	57.0	84.6	-3.8	0.290
4-1680	4-2500	0.639	272.0	-6.9	9.64	1.243	119.5	0.669	2.048	283.1	564.1	0.679	3.417	-2.98	0.447	55.0	87.4	-3.6	0.304
4-1680	4-2520	0.665	273.5	-8.2	9.43	1.244	121.1	0.683	2.060	279.9	564.7	0.653	3.468	-3.02	0.453	53.0	90.4	-3.4	0.319
4-1680	4-2540	0.693	275.2	-9.3	9.21	1.246	122.8	0.699	2.073	276.5	565.2	0.625	3.522	-3.09	0.459	51.0	93.6	-3.3	0.335
4-1680	4-2560	0.724	276.9	-10.5	8.98	1.247	124.6	0.715	2.086	272.9	565.6	0.594	3.578	-3.17	0.466	49.0	96.9	-3.2	0.351
4-1680	4-2580	0.757	278.7	-11.6	8.73	1.248	126.5	0.733	2.100	269.2	565.8	0.561	3.638	-3.27	0.473	46.9	100.4	-3.1	0.369
4-1680	4-2600	0.793	280.6	-12.6	8.47	1.249	128.6	0.751	2.113	265.2	565.8	0.526	3.700	-3.40	0.480	44.7	104.1	-3.0	0.388
4-1680	4-2620	0.832	282.6	-13.6	8.17	1.251	130.9	0.771	2.127	260.9	565.7	0.488	3.766	-3.56	0.487	42.5	108.0	-2.9	0.409
4-1680	4-2640	0.874	284.7	-14.5	7.85	1.252	133.3	0.791	2.141	256.5	565.3	0.448	3.835	-3.75	0.494	40.1	112.0	-2.8	0.431
4-1680	4-2660	0.919	286.9	-15.4	7.48	1.253	136.0	0.812	2.156	251.7	564.7	0.404	3.907	-3.99	0.501	37.7	116.2	-2.7	0.455
4-1680	4-2680	0.969	289.3	-16.2	7.05	1.254	138.8	0.835	2.171	246.7	563.8	0.359	3.983	-4.30	0.508	35.1	120.6	-2.6	0.480
4-1690	4-1890	0.601	253.7	-23.5	-0.40	1.427	110.9	1.00308	6.136	318.3	472.9	0.859	---	10.97	0.844	146.6	97.8	7.5	0.680
4-1690	4-1910	0.535	252.2	-28.7	-2.54	1.379	108.9	0.885	7.618	319.6	478.3	0.873	---	12.93	0.758	143.3	98.9	9.8	0.592
4-1690	4-1930	0.492	250.2	-37.0	-5.55	1.343	107.2	0.797	4.366	321.1	483.6	0.886	---	15.78	0.687	139.9	99.4	13.3	0.524
4-1690	4-1950	0.481	247.9	-50.0	-10.18	1.316	105.7	0.730	3.321	322.5	488.9	0.898	---	20.24	0.630	136.3	98.9	18.5	0.475
4-1690	4-1970	0.537	247.3	-69.1	-18.11	1.296	104.4	0.678	2.816	324.0	494.0	0.907	---	28.00	0.583	132.7	96.2	26.2	0.456
4-1690	4-1990	0.755	11.5	-84.6	-33.94	1.280	103.2	0.637	2.527	325.7	499.0	0.917	---	43.67	0.544	128.8	88.0	35.8	0.501
4-1690	4-2030	1.300	317.9	49.8	68.06	1.258	103.6	0.590	2.221	323.0	508.5	0.910	---	-58.65	0.486	121.8	79.3	-40.0	0.548
4-1690	4-2050	0.908	291.8	49.8	44.30	1.251	102.7	0.570	2.136	324.6	512.8	0.917	---	-35.04	0.465	117.9	89.9	-38.3	0.380
4-1690	4-2070	0.718	278.7	45.4	33.25	1.246	102.2	0.556	2.075	325.4	516.8	0.921	---	-24.14	0.447	114.1	93.5	-33.9	0.299
4-1690	4-2090	0.617	271.9	41.0	27.26	1.242	102.0	0.546	2.031	325.7	520.7	0.923	---	-18.32	0.433	110.4	93.7	-30.2	0.253
4-1690	4-2110	0.556	268.0	37.2	23.56	1.239	101.9	0.538	2.000	325.7	524.4	0.924	---	-14.77	0.422	106.8	92.4	-27.4	0.224
4-1690	4-2130	0.516	265.6	33.9	21.04	1.236	101.9	0.533	1.978	325.5	527.8	0.923	---	-12.41	0.413	103.3	90.2	-25.1	0.204
4-1690	4-2150	0.489	264.0	31.1	19.20	1.235	102.0	0.530	1.963	325.1	531.0	0.922	---	-10.73	0.407	99.9	87.5	-23.2	0.190
4-1690	4-2170	0.470	263.1	28.4	17.80	1.234	102.1	0.529	1.953	324.4	534.0	0.920	---	-9.49	0.402	96.6	84.7	-21.4	0.181
4-1690	4-2190	0.457	262.6	25.9	16.69	1.233	102.4	0.529	1.947	323.6	536.9	0.917	---	-8.54	0.399	93.5	81.8	-19.8	0.175
4-1690	4-2210	0.449	262.4	23.6	15.78	1.233	102.7	0.530	1.944	322.7	539.6	0.914	---	-7.79	0.398	90.5	79.2	-18.2	0.173
4-1690	4-2230	0.443	262.4	21.3	15.01	1.233	103.2	0.532	1.944	321.5	542.1	0.909	2.979	-7.19	0.397	87.6	77.0	-16.7	0.173
4-1690	4-2250	0.441	262.7	19.2	14.34	1.233	103.6	0.535	1.946	320.3	544.5	0.904	2.988	-6.70	0.397	84.8	75.3	-15.4	0.175
4-1690	4-2270	0.440	263.2	17.0	13.77	1.233	104.2	0.539	1.950	318.8	546.8	0.898	3.002	-6.30	0.399	82.2	74.1	-14.1	0.178
4-1690	4-2290	0.442	263.8	14.9	13.25	1.234	104.8	0.544	1.955	317.3	548.9	0.891	3.019	-5.97	0.401	79.7	73.3	-12.9	0.183
4-1690	4-2310	0.446	264.5	12.9	12.78	1.235	105.4	0.549	1.962	315.6	550.9	0.884	3.040	-5.69	0.403	77.3	73.1	-11.9	0.189
4-1690	4-2330	0.451	265.4	10.9	12.35	1.235	106.1	0.555	1.969	313.8	552.8	0.875	3.063	-5.46	0.407	75.0	73.3	-11.0	0.196
4-1690	4-2350	0.458	266.3	8.9	11.96	1.236	106.9	0.562	1.978	311.9	554.5	0.866	3.089	-5.26	0.410	72.8	73.9	-10.2	0.204
4-1690	4-2370	0.467	267.4	7.0	11.58	1.237	107.8	0.570	1.987	309.9	556.2	0.855	3.118	-5.10	0.414	70.7	74.8	-9.4	0.212
4-1690	4-2390	0.478	268.5	5.1	11.23	1.238	108.7	0.577	1.996	307.7	557.8	0.844	3.149	-4.97	0.419	68.6	76.1	-8.8	0.221
4-1690	4-2410	0.490	269.8	3.3	10.89	1.239	109.6	0.586	2.006	305.4	559.2	0.831	3.182	-4.87	0.424	66.6	77.7	-8.2	0.230
4-1690	4-2430	0.503	271.0	1.6	10.57	1.240	110.7	0.595	2.017	303.0	560.6	0.816	3.218	-4.79	0.429	64.7	79.6	-7.7	0.241
4-1690	4-2450	0.518	272.4	-0.1	10.25	1.241	111.7	0.605	2.028	300.5	561.8	0.801	3.255	-4.73	0.434	62.8	81.7	-7.3	0.251
4-1690	4-2470	0.535	273.8	-1.8	9.93	1.242	112.9	0.616	2.039	297.8	563.0	0.784	3.295	-4.69	0.440	61.0	84.0	-6.9	0.262
4-1690	4-2490	0.554	275.3	-3.3	9.62	1.244	114.2	0.627	2.051	295.1	564.0	0.765	3.337	-4.67	0.446	59.1	86.5	-6.5	0.274
4-1690	4-2510	0.575	276.9	-4.8	9.30	1.245	115.5	0.639	2.063	292.1	564.9	0.744	3.382	-4.68	0.452	57.3	89.2	-6.2	0.287
4-1690	4-2530	0.597	278.5	-6.3	8.98	1.246	116.9	0.652	2.075	289.1	565.8	0.722	3.429	-4.71	0.458	55.5	92.1	-5.9	0.300
4-1690	4-2550	0.622	280.2	-7.7	8.66	1.247	118.5	0.666	2.088	285.8	566.4	0.698	3.478	-4.75	0.465	53.7	95.2	-5.7	0.314
4-1690	4-2570	0.649	282.0	-9.0	8.32	1.248	120.1	0.681	2.100	282.4	567.0	0.671	3.530	-4.83	0.471	51.9	98.4	-5.4	0.329
4-1690	4-2590	0.678	283.9	-10.2	7.96	1.249	121.9	0.696	2.113	278.9	567.4	0.642	3.585	-4.93	0.478	50.0	101.8	-5.2	0.345
4-1690	4-2610	0.709	285.8	-11.4	7.58	1.250	123.7	0.713	2.127	275.1	567.7	0.610	3.643	-5.06	0.485	48.1	105.4	-5.0	0.362
4-1690	4-2630	0.744	287.8	-12.5	7.18	1.252	125.8	0.731	2.140	271.1	567.8	0.576	3.704	-5.23	0.491	46.1	109.1	-4.9	0.381
4-1690	4-2650	0.781	289.9	-13.6	6.74	1.253	128.0	0.750	2.154	266.9	567.7	0.539	3.768	-5.44	0.498	44.0	113.0	-4.7	0.401
4-1690	4-2670	0.822	292.2	-14.5	6.26	1.254	130.3	0.769	2.168	262.5	567.4	0.500	3.836	-5.70	0.505	41.8	117.1	-4.5	0.422
4-1690	4-2690	0.866	294.5	-15.4	5.72	1.255	132.9	0.790	2.182	257.8	566.9	0.457	3.907	-6.03	0.512	39.5	121.3	-4.4	0.445
4-1700	4-1880	0.627	258.4	-22.3	0.34	1.485	109.3	1.151	-5.855	324.0	466.4	0.883	---	10.34	0.939	148.6	98.9	6.6	0.770
4-1700	4-1900	0.546	257.1	-25.4	-0.99	1.422	107.2	0.99085	-4.953	325.4	471.9	0.897	---	11.42	0.834	145.5	100.3	8.1	0.663
4-1700	4-1920	0.484	255.3	-30.0	-2.62	1.375	105.3	0.871	7.068	327.0	477.4	0.910	---	12.81	0.750	142.3	101.3	10.2	0.577
4-1700	4-1940	0.441	253.1	-36.6	-4.69	1.341	103.8	0.783	4.242	328.6	482.9	0.920	---	14.64	0.681	138.8	102.0	12.9	0.508
4-1700	4-1960	0.419	250.4	-45.7	-7.40	1.314	102.4	0.716	3.275	330.2	488.4	0.929	---	17.12	0.626	135.3	102.0	16.5	0.455
4-1700	4-1980	0.423	247.3	-57.8	-11.14	1.294	101.2	0.665	2.798	331.7	493.6	0.937	---	20.65	0.580	131.7	101.2	21.5	0.417
4-1700	4-2000	0.469	243.3	-72.6	-16.67	1.279	100.3	0.626	2.521	333.2	498.7	0.943	---	25.96	0.542	127.9	98.8	27.9	0.400
4-1700	4-2020	0.589	230.6	-89.4	-25.52	1.267	99.4	0.595	2.344	334.8	503.6	0.949	---	34.59	0.511	124.1	93.8	35.4	0.415
4-1700	4-2040	0.842	52.5	-72.4	-40.98	1.258	98.5	0.571	2.226	336.6	508.3	0.954	---	49.84	0.486	120.3	84.6	41.1	0.487
4-1700	4-2060	1.286	44.5	-52.0	-67.95	1.252	97.3	0.551	2.143	339.3	512.9	0.961	---	76.60	0.465	116.3	73.4	38.9	0.646

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1700	4-2080	1.445	336.4	53.3	78.41	1.246	100.6	0.550	2.084	330.0	516.7	0.937	---	-69.97	0.448	113.8	76.6	-40.5	0.594
4-1700	4-2100	1.062	309.6	57.1	54.33	1.242	99.8	0.538	2.042	331.9	520.6	0.943	---	-46.10	0.435	110.0	84.4	-43.9	0.425
4-1700	4-2120	0.830	291.3	54.5	40.81	1.239	99.4	0.530	2.012	332.6	524.3	0.946	---	-32.79	0.424	106.3	88.4	-42.5	0.327
4-1700	4-2140	0.694	281.1	50.4	32.93	1.237	99.3	0.524	1.990	332.8	527.7	0.946	---	-25.11	0.416	102.9	89.1	-39.7	0.269
4-1700	4-2160	0.609	275.3	46.3	27.91	1.236	99.3	0.521	1.975	332.6	531.0	0.946	---	-20.30	0.410	99.6	88.0	-36.8	0.234
4-1700	4-2180	0.553	271.7	42.4	24.46	1.235	99.5	0.519	1.966	332.1	534.0	0.945	---	-17.06	0.406	96.4	86.1	-33.9	0.212
4-1700	4-2200	0.514	269.5	38.7	21.93	1.234	99.7	0.519	1.960	331.4	536.9	0.943	---	-14.74	0.403	93.4	83.8	-31.2	0.198
4-1700	4-2220	0.486	268.2	35.4	19.99	1.234	100.0	0.520	1.958	330.5	539.6	0.940	---	-13.02	0.402	90.4	81.6	-28.6	0.189
4-1700	4-2240	0.466	267.5	32.2	18.45	1.234	100.4	0.521	1.958	329.5	542.1	0.937	2.979	-11.70	0.401	87.7	79.6	-26.2	0.184
4-1700	4-2260	0.452	267.3	29.1	17.19	1.234	100.8	0.524	1.961	328.3	544.5	0.933	2.988	-10.65	0.402	85.0	77.9	-23.9	0.183
4-1700	4-2280	0.442	267.4	26.2	16.13	1.234	101.3	0.527	1.965	326.9	546.8	0.929	3.000	-9.82	0.403	82.5	76.7	-21.8	0.184
4-1700	4-2300	0.436	267.7	23.3	15.21	1.235	101.9	0.531	1.970	325.4	548.9	0.923	3.016	-9.14	0.406	80.1	76.0	-19.9	0.186
4-1700	4-2320	0.432	268.3	20.6	14.42	1.236	102.5	0.536	1.977	323.8	551.0	0.917	3.036	-8.57	0.408	77.9	75.7	-18.3	0.190
4-1700	4-2340	0.432	269.1	17.9	13.70	1.237	103.1	0.541	1.984	322.0	552.9	0.911	3.058	-8.11	0.412	75.7	75.8	-16.8	0.195
4-1700	4-2360	0.433	270.0	15.3	13.06	1.237	103.9	0.547	1.993	320.2	554.7	0.903	3.082	-7.72	0.416	73.6	76.4	-15.4	0.201
4-1700	4-2380	0.437	271.1	12.8	12.47	1.238	104.6	0.553	2.002	318.2	556.4	0.895	3.109	-7.39	0.420	71.6	77.3	-14.3	0.208
4-1700	4-2400	0.443	272.3	10.4	11.93	1.239	105.5	0.560	2.011	316.1	558.0	0.885	3.138	-7.12	0.424	69.7	78.5	-13.2	0.216
4-1700	4-2420	0.451	273.6	8.1	11.42	1.240	106.4	0.567	2.021	313.9	559.5	0.875	3.168	-6.89	0.429	67.8	80.0	-12.3	0.224
4-1700	4-2440	0.460	274.9	5.9	10.93	1.241	107.3	0.575	2.032	311.5	561.0	0.863	3.201	-6.71	0.434	66.0	81.8	-11.5	0.233
4-1700	4-2460	0.472	276.4	3.7	10.47	1.242	108.3	0.584	2.043	309.1	562.3	0.850	3.236	-6.56	0.440	64.3	83.8	-10.8	0.242
4-1700	4-2480	0.485	277.9	1.7	10.02	1.243	109.4	0.593	2.054	306.5	563.5	0.836	3.273	-6.45	0.446	62.5	86.1	-10.1	0.252
4-1700	4-2500	0.500	279.6	-0.3	9.58	1.245	110.5	0.603	2.066	303.9	564.7	0.820	3.312	-6.36	0.451	60.9	88.5	-9.6	0.263
4-1700	4-2520	0.517	281.2	-2.1	9.15	1.246	111.8	0.614	2.078	301.1	565.7	0.803	3.353	-6.31	0.457	59.2	91.1	-9.1	0.274
4-1700	4-2540	0.536	283.0	-3.9	8.72	1.247	113.1	0.625	2.090	298.1	566.7	0.784	3.396	-6.28	0.464	57.6	94.0	-8.6	0.286
4-1700	4-2560	0.557	284.8	-5.5	8.29	1.248	114.5	0.637	2.102	295.0	567.5	0.763	3.441	-6.29	0.470	55.9	96.9	-8.2	0.298
4-1700	4-2580	0.580	286.7	-7.1	7.85	1.249	115.9	0.650	2.115	291.8	568.2	0.740	3.489	-6.32	0.476	54.3	100.1	-7.9	0.312
4-1700	4-2600	0.605	288.7	-8.6	7.40	1.250	117.5	0.664	2.127	288.4	568.8	0.715	3.540	-6.39	0.483	52.6	103.4	-7.5	0.326
4-1700	4-2620	0.633	290.7	-9.9	6.93	1.251	119.2	0.679	2.140	284.8	569.3	0.687	3.593	-6.49	0.489	50.9	106.8	-7.2	0.341
4-1700	4-2640	0.663	292.8	-11.2	6.45	1.252	121.1	0.695	2.153	281.0	569.6	0.658	3.649	-6.63	0.496	49.1	110.5	-7.0	0.358
4-1700	4-2660	0.696	295.0	-12.4	5.93	1.254	123.0	0.712	2.167	277.0	569.7	0.625	3.708	-6.81	0.503	47.3	114.2	-6.7	0.375
4-1700	4-2680	0.733	297.3	-13.4	5.37	1.255	125.1	0.730	2.180	272.8	569.7	0.589	3.771	-7.04	0.510	45.4	118.2	-6.5	0.394
4-1700	4-2700	0.772	299.6	-14.4	4.76	1.256	127.4	0.749	2.194	268.4	569.5	0.551	3.837	-7.34	0.516	43.4	122.3	-6.3	0.415
4-1710	4-1890	0.566	260.6	-23.8	-0.24	1.474	105.2	1.130	-7.074	331.4	465.6	0.921	---	10.77	0.922	147.4	101.3	7.1	0.746
4-1710	4-1910	0.491	258.7	-26.9	-1.39	1.414	103.3	0.970	30.885	333.0	471.3	0.932	---	11.60	0.820	144.4	102.6	8.6	0.643
4-1710	4-1930	0.435	256.4	-31.3	-2.72	1.369	101.6	0.853	6.396	334.8	477.1	0.942	---	12.63	0.738	141.1	103.6	10.4	0.559
4-1710	4-1950	0.395	253.6	-37.1	-4.29	1.336	100.1	0.766	4.058	336.6	482.8	0.950	---	13.90	0.672	137.7	104.2	12.8	0.491
4-1710	4-1970	0.371	250.2	-44.5	-6.19	1.311	98.9	0.701	3.196	338.4	488.3	0.956	---	15.52	0.618	134.2	104.4	15.7	0.437
4-1710	4-1990	0.364	246.1	-53.7	-8.57	1.292	97.9	0.651	2.757	340.0	493.8	0.961	---	17.61	0.574	130.6	104.0	19.5	0.396
4-1710	4-2010	0.378	240.3	-64.3	-11.64	1.277	97.0	0.614	2.499	341.6	499.0	0.966	---	20.42	0.538	126.9	102.8	24.2	0.367
4-1710	4-2030	0.420	229.4	-75.7	-15.79	1.266	96.3	0.585	2.333	343.0	504.0	0.969	---	24.30	0.508	123.1	100.4	29.8	0.353
4-1710	4-2050	0.503	170.0	-85.6	-21.69	1.257	95.6	0.562	2.221	344.3	508.7	0.972	---	29.93	0.484	119.4	96.5	35.9	0.358
4-1710	4-2070	0.647	79.1	-77.8	-30.59	1.251	95.1	0.545	2.142	345.6	513.2	0.974	---	38.57	0.464	115.6	90.6	41.5	0.394
4-1710	4-2090	0.890	64.1	-64.4	-44.72	1.246	94.4	0.532	2.086	347.2	517.5	0.976	---	52.45	0.448	111.8	83.0	44.0	0.475
4-1710	4-2110	1.257	55.5	-48.7	-66.73	1.242	93.6	0.521	2.046	349.6	521.6	0.979	---	74.20	0.435	108.0	76.2	40.6	0.611
4-1710	4-2130	1.545	353.0	56.5	85.82	1.239	98.1	0.526	2.018	336.4	524.3	0.956	---	-78.60	0.425	106.1	77.5	-39.2	0.633
4-1710	4-2150	1.191	326.6	62.5	62.63	1.237	97.3	0.519	1.998	338.5	527.8	0.961	---	-55.65	0.418	102.5	82.3	-44.9	0.477
4-1710	4-2170	0.936	303.3	61.7	47.48	1.236	97.0	0.515	1.984	339.3	531.1	0.963	---	-40.76	0.412	99.2	85.1	-46.1	0.369
4-1710	4-2190	0.772	289.1	58.0	37.98	1.235	97.0	0.512	1.975	339.4	534.2	0.963	---	-31.51	0.408	96.0	85.8	-44.7	0.302
4-1710	4-2210	0.664	281.0	53.6	31.75	1.234	97.1	0.511	1.971	339.0	537.1	0.963	---	-25.53	0.406	93.1	85.0	-42.3	0.260
4-1710	4-2230	0.591	276.3	49.2	27.40	1.234	97.3	0.512	1.969	338.3	539.8	0.961	---	-21.44	0.405	90.2	83.5	-39.4	0.233
4-1710	4-2250	0.539	273.6	45.1	24.20	1.234	97.6	0.513	1.970	337.4	542.3	0.959	2.980	-18.50	0.405	87.6	81.9	-36.3	0.217
4-1710	4-2270	0.502	272.0	41.1	21.75	1.234	98.0	0.515	1.972	336.3	544.7	0.957	2.988	-16.30	0.406	85.0	80.5	-33.4	0.206
4-1710	4-2290	0.474	271.2	37.3	19.80	1.235	98.5	0.518	1.977	335.0	547.0	0.953	3.000	-14.62	0.408	82.6	79.3	-30.5	0.201
4-1710	4-2310	0.454	271.0	33.6	18.20	1.236	99.0	0.521	1.983	333.5	549.1	0.949	3.016	-13.29	0.410	80.3	78.6	-27.9	0.199
4-1710	4-2330	0.439	271.3	30.1	16.85	1.236	99.6	0.525	1.989	332.0	551.2	0.945	3.034	-12.22	0.413	78.1	78.3	-25.5	0.199
4-1710	4-2350	0.429	271.8	26.7	15.70	1.237	100.2	0.529	1.997	330.3	553.1	0.940	3.054	-11.35	0.416	76.1	78.4	-23.3	0.201
4-1710	4-2370	0.423	272.7	23.4	14.69	1.238	100.9	0.534	2.006	328.5	555.0	0.934	3.078	-10.63	0.420	74.1	78.9	-21.4	0.205
4-1710	4-2390	0.420	273.7	20.2	13.79	1.239	101.6	0.540	2.015	326.5	556.7	0.928	3.103	-10.03	0.425	72.2	79.7	-19.6	0.209
4-1710	4-2410	0.419	274.9	17.1	12.99	1.240	102.4	0.546	2.025	324.5	558.4	0.920	3.130	-9.54	0.429	70.4	80.9	-18.1	0.215
4-1710	4-2430	0.421	276.3	14.2	12.25	1.241	103.2	0.552	2.035	322.3	559.9	0.912	3.159	-9.12	0.434	68.7	82.4	-16.8	0.222
4-1710	4-2450	0.426	277.8	11.4	11.56	1.242	104.1	0.559	2.046	320.1	561.4	0.903	3.189	-8.77	0.439	67.0	84.1	-15.6	0.229
4-1710	4-2470	0.432	279.4	8.6	10.92	1.243	105.0	0.566	2.057	317.7	562.8	0.892	3.222	-8.48	0.445	65.3	86.0	-14.6	0.237
4-1710	4-2490	0.441	281.1	6.1	10.32	1.244	106.0	0.574	2.068	315.2	564.1	0.881	3.256	-8.25	0.451	63.8	88.2	-13.7	0.246
4-1710	4-2510	0.452	282.9	3.6	9.73	1.245	107.1	0.583	2.080	312.6	565.3	0.868	3.292	-8.06	0.456	62.2	90.6	-12.8	0.255
4-1710	4-2530	0.465	284.8	1.3	9.17	1.246	108.2	0.592	2.092	309.9	566.5	0.853	3.330	-7.91	0.462	60.7	93.2	-12.1	0.265
4-1710	4-2550	0.480	286.7	-0.9	8.63	1.247	109.4	0.602	2.104	307.0	567.5	0.838	3.370	-7.80	0.469	59.2	95.9	-11.5	0.275
4-1710	4-2570	0.498	288.7	-2.9	8.09	1.248	110.7	0.612	2.116	304.1	568.5	0.820	3.411	-7.73	0.475	57.7	98.8	-10.9	0.286
4-1710	4-2590	0.517	290.8	-4.8	7.55	1.249	112.1	0.624	2.128	300.9	569.3	0.801	3.456	-7.69	0.481	56.2	101.9	-10.4	0.298
4-1710	4-2610	0.539	292.9	-6.5	7.01	1.251	113.5	0.636	2.141	297.7	570.0	0.780	3.502	-7.70	0.488	54.7	105.1	-9.9	0.311
4-1710	4-2630	0.563	295.1	-8.2	6.46	1.252	115.0	0.649	2.154	294.2	570.7	0.756	3.551	-7.74	0.494	53.2	108.5	-9.5	0.324
4-1710	4-2650	0.590	297.4	-9.6	5.89	1.253	116.7	0.663	2.166	290.6	571.1	0.731	3.602	-7.82	0.501	51.6	112.0	-9.1	0.339
4-1710	4-2670	0.619	299.7	-11.0	5.30	1.254	118.5	0.678	2.180	286.8	571.5	0.702	3.657	-7.95	0.508	50.0	115.7	-8.7	0.355
4-1710	4-2690	0.651	302.1	-12.2	4.69	1.255	120.4	0.694	2.193	282.9	571.7	0.671	3.714	-8.13	0.514	48.3	119.5	-8.4	0.372
4-1710	4-2710	0.686	304.6	-13.2	4.03	1.256	122.4	0.711	2.206	278.7	571.7	0.637	3.775	-8.36	0.521	46.6	123.5	-8.1	0.390
4-1720	4-1880	0.601	262.7	-22.7	0.24	1.540	102.8	1.323	-2.917	337.5	459.6	0.944	---	10.48	1.026	149.2	102.1	6.5	0.846
4-1720	4-1900	0.508	260.7	-25.1	-0.68	1.461	100.9	1.101	-9.469	339.3	465.4	0.953	---	10.99	0.901	146.3	103.4	7.6	0.720
4-1720	4-1920	0.440	258.1	-28.4	-1.69	1.403	99.1	0.944	17.059	341.2	471.3	0.961	---	11.62	0.803	143.2	104.6	9.0	0.620
4-1720	4-1940	0.389	254.9	-32.6	-2.82	1.361	97.6	0.830	5.689	343.2	477.3	0.967	---	12.38	0.724	140.0	105.5	10.7	0.539
4-1720	4-1960	0.354	251.0	-37.9	-4.10	1.329	96.3	0.746	3.832	345.2	483.2	0.972	---	13.29	0.660	136.6	106.1	12.7	0.473
4-1720	4-1980	0.333	246.5	-44.2	-5.56	1.305	95.2	0.684	3.088	347.2	489.0	0.976	---	14.42	0.608	133.0	106.2	15.3	0.420

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1720	4-2000	0.324	241.1	-51.6	-7.29	1.287	94.3	0.637	2.697	348.9	494.5	0.979	---	15.81	0.566	129.4	105.9	18.4	0.377
4-1720	4-2020	0.329	234.3	-59.6	-9.36	1.273	93.6	0.601	2.462	350.5	499.8	0.981	---	17.55	0.531	125.7	105.0	22.1	0.345
4-1720	4-2040	0.349	224.2	-67.9	-11.91	1.263	92.9	0.574	2.309	351.9	504.9	0.983	---	19.79	0.502	121.9	103.4	26.5	0.323
4-1720	4-2060	0.387	205.8	-75.7	-15.16	1.255	92.5	0.554	2.206	353.1	509.6	0.984	---	22.73	0.479	118.2	101.0	31.5	0.312
4-1720	4-2080	0.450	162.9	-80.6	-19.45	1.249	92.1	0.539	2.133	354.1	514.1	0.984	---	26.72	0.461	114.5	97.5	36.7	0.315
4-1720	4-2100	0.546	110.1	-77.8	-25.36	1.244	91.7	0.527	2.082	355.0	518.3	0.985	---	32.33	0.446	110.9	93.0	41.5	0.336
4-1720	4-2120	0.692	85.6	-69.7	-33.87	1.241	91.4	0.518	2.045	355.9	522.2	0.985	---	40.54	0.434	107.3	87.8	44.9	0.381
4-1720	4-2140	0.914	73.5	-59.2	-46.57	1.238	91.0	0.512	2.019	357.1	526.0	0.986	---	52.95	0.425	103.8	82.8	45.5	0.461
4-1720	4-2160	1.226	65.7	-46.5	-65.17	1.236	90.3	0.507	2.000	359.0	529.6	0.986	---	71.26	0.418	100.3	79.5	42.1	0.581
4-1720	4-2200	1.294	343.8	67.2	69.38	1.234	95.2	0.508	1.981	344.5	534.4	0.974	---	-63.86	0.410	95.7	83.7	-44.0	0.527
4-1720	4-2220	1.029	314.6	67.9	53.17	1.234	94.9	0.507	1.977	345.4	537.4	0.976	---	-47.94	0.408	92.7	85.2	-46.7	0.416
4-1720	4-2240	0.842	295.3	64.4	42.31	1.234	94.9	0.506	1.976	345.4	540.1	0.976	2.977	-37.37	0.407	89.9	85.3	-46.6	0.340
4-1720	4-2260	0.714	284.7	59.6	34.96	1.234	95.1	0.507	1.978	344.9	542.7	0.975	2.981	-30.31	0.408	87.2	84.5	-44.8	0.291
4-1720	4-2280	0.625	279.0	54.8	29.77	1.234	95.4	0.509	1.981	344.1	545.1	0.973	2.989	-25.41	0.409	84.8	83.4	-42.2	0.260
4-1720	4-2300	0.561	275.9	50.1	25.94	1.235	95.8	0.511	1.986	342.9	547.4	0.972	3.001	-21.87	0.411	82.5	82.3	-39.2	0.240
4-1720	4-2320	0.514	274.3	45.6	22.99	1.235	96.2	0.514	1.993	341.6	549.5	0.969	3.016	-19.23	0.413	80.3	81.5	-36.1	0.228
4-1720	4-2340	0.479	273.6	41.3	20.65	1.236	96.7	0.517	2.000	340.1	551.5	0.966	3.034	-17.19	0.417	78.2	81.1	-33.2	0.220
4-1720	4-2360	0.453	273.7	37.1	18.74	1.237	97.3	0.521	2.008	338.5	553.5	0.963	3.056	-15.59	0.420	76.2	81.1	-30.4	0.217
4-1720	4-2380	0.434	274.2	33.0	17.13	1.238	98.0	0.525	2.017	336.8	555.3	0.959	3.076	-14.30	0.424	74.3	81.5	-27.8	0.216
4-1720	4-2400	0.420	275.1	29.1	15.76	1.239	98.6	0.529	2.027	334.9	557.1	0.954	3.100	-13.26	0.429	72.5	82.3	-25.5	0.218
4-1720	4-2420	0.410	276.3	25.3	14.56	1.240	99.4	0.534	2.037	332.9	558.7	0.949	3.125	-12.39	0.434	70.8	83.4	-23.5	0.221
4-1720	4-2440	0.404	277.7	21.6	13.49	1.241	100.2	0.540	2.047	330.8	560.3	0.942	3.152	-11.67	0.439	69.2	84.7	-21.7	0.225
4-1720	4-2460	0.402	279.4	18.1	12.53	1.242	101.0	0.546	2.058	328.6	561.9	0.935	3.181	-11.08	0.444	67.6	86.4	-20.1	0.230
4-1720	4-2480	0.403	281.2	14.7	11.66	1.243	101.9	0.552	2.069	326.3	563.3	0.927	3.212	-10.58	0.450	66.1	88.3	-18.6	0.236
4-1720	4-2500	0.406	283.1	11.5	10.85	1.244	102.8	0.559	2.081	323.8	564.7	0.918	3.244	-10.16	0.455	64.7	90.4	-17.4	0.243
4-1720	4-2520	0.412	285.1	8.4	10.09	1.245	103.8	0.566	2.093	321.3	566.0	0.908	3.277	-9.81	0.461	63.2	92.7	-16.3	0.251
4-1720	4-2540	0.421	287.2	5.5	9.38	1.246	104.8	0.574	2.105	318.7	567.2	0.897	3.313	-9.53	0.467	61.8	95.2	-15.3	0.259
4-1720	4-2560	0.432	289.5	2.8	8.69	1.247	106.0	0.582	2.117	315.9	568.3	0.884	3.349	-9.30	0.473	60.5	97.9	-14.4	0.268
4-1720	4-2580	0.445	291.7	0.3	8.03	1.248	107.1	0.592	2.129	313.0	569.3	0.870	3.388	-9.12	0.480	59.1	100.8	-13.6	0.278
4-1720	4-2600	0.461	294.1	-2.0	7.38	1.249	108.4	0.601	2.141	310.0	570.3	0.854	3.429	-8.99	0.486	57.8	103.8	-12.9	0.288
4-1720	4-2620	0.479	296.5	-4.2	6.75	1.250	109.7	0.612	2.154	306.8	571.1	0.836	3.472	-8.90	0.493	56.4	106.9	-12.2	0.299
4-1720	4-2640	0.499	298.9	-6.1	6.11	1.252	111.1	0.623	2.167	303.5	571.9	0.817	3.516	-8.86	0.499	55.1	110.2	-11.7	0.311
4-1720	4-2660	0.522	301.4	-7.9	5.47	1.253	112.6	0.635	2.179	300.0	572.5	0.795	3.564	-8.87	0.506	53.7	113.7	-11.2	0.324
4-1720	4-2680	0.548	304.0	-9.4	4.82	1.254	114.3	0.648	2.192	296.4	573.0	0.771	3.614	-8.92	0.512	52.2	117.3	-10.7	0.338
4-1720	4-2700	0.576	306.5	-10.8	4.15	1.255	116.0	0.663	2.205	292.6	573.4	0.744	3.667	-9.02	0.519	50.8	121.0	-10.3	0.353
4-1720	4-2720	0.607	309.2	-12.0	3.46	1.256	117.8	0.678	2.219	288.6	573.6	0.715	3.723	-9.18	0.525	49.2	124.9	-9.9	0.369
4-1730	4-1890	0.541	261.2	-23.7	-0.19	1.520	98.0	1.277	-3.509	345.7	459.8	0.971	---	10.68	0.997	148.1	104.1	6.9	0.812
4-1730	4-1910	0.458	258.2	-26.3	-1.05	1.445	96.3	1.062	15.737	347.8	465.8	0.977	---	11.06	0.877	145.2	105.3	8.0	0.691
4-1730	4-1930	0.397	254.4	-29.6	-1.96	1.391	94.8	0.912	11.109	350.0	472.0	0.981	---	11.52	0.782	142.1	106.3	9.3	0.595
4-1730	4-1950	0.354	249.9	-33.6	-2.95	1.351	93.4	0.804	5.010	352.3	478.2	0.984	---	12.07	0.706	138.8	107.0	10.8	0.517
4-1730	4-1970	0.325	244.8	-38.2	-4.03	1.321	92.3	0.725	3.582	354.5	484.4	0.986	---	12.73	0.645	135.3	107.5	12.7	0.453
4-1730	4-1990	0.308	239.0	-43.5	-5.22	1.299	91.3	0.666	2.959	356.6	490.3	0.987	---	13.53	0.595	131.8	107.6	15.0	0.402
4-1730	4-2010	0.301	232.6	-49.2	-6.57	1.282	90.6	0.623	2.619	358.5	495.9	0.988	---	14.49	0.554	128.1	107.2	17.7	0.360
4-1730	4-2030	0.303	225.3	-55.1	-8.11	1.269	89.9	0.590	2.411	0.1	141.3	---	---	15.66	0.521	124.4	106.4	20.8	0.327
4-1730	4-2050	0.315	216.4	-61.1	-9.91	1.259	89.5	0.566	2.275	1.5	146.3	---	---	17.09	0.495	120.6	104.9	24.5	0.302
4-1730	4-2070	0.336	204.9	-66.7	-12.05	1.251	89.1	0.547	2.182	2.6	151.1	---	---	18.89	0.473	116.9	102.9	28.5	0.286
4-1730	4-2090	0.370	188.3	-71.6	-14.66	1.246	88.8	0.533	2.116	3.4	155.5	---	---	21.16	0.455	113.3	100.2	32.9	0.278
4-1730	4-2110	0.418	163.9	-74.7	-17.94	1.241	88.6	0.523	2.070	4.1	159.6	---	---	24.10	0.442	109.7	96.9	37.3	0.280
4-1730	4-2130	0.487	134.2	-74.6	-22.19	1.238	88.5	0.515	2.037	4.6	163.4	---	---	28.02	0.431	106.2	93.2	41.4	0.294
4-1730	4-2150	0.584	109.3	-70.9	-27.90	1.236	88.3	0.510	2.014	4.9	167.0	---	---	33.40	0.423	102.8	89.4	44.7	0.323
4-1730	4-2170	0.723	93.0	-64.6	-35.86	1.234	88.2	0.506	1.998	5.4	170.4	---	---	41.04	0.417	99.5	85.9	46.6	0.371
4-1730	4-2190	0.923	82.5	-56.0	-47.29	1.233	88.0	0.504	1.988	6.0	173.7	---	---	52.15	0.412	96.4	83.6	46.3	0.447
4-1730	4-2210	1.196	75.3	-45.1	-63.49	1.233	87.6	0.503	1.982	7.3	176.8	---	---	68.03	0.410	93.2	82.9	43.1	0.555
4-1730	4-2250	1.376	2.7	71.3	74.81	1.233	93.3	0.504	1.980	350.1	540.4	0.983	2.977	-70.90	0.408	89.6	87.5	-42.3	0.573
4-1730	4-2270	1.105	325.5	73.7	57.87	1.233	93.0	0.504	1.983	351.0	543.1	0.984	2.982	-54.27	0.409	86.9	88.0	-46.1	0.460
4-1730	4-2290	0.900	298.6	70.0	45.83	1.233	93.0	0.505	1.987	351.0	545.5	0.984	2.991	-42.55	0.411	84.4	87.5	-46.9	0.379
4-1730	4-2310	0.754	285.5	64.6	37.45	1.234	93.2	0.507	1.993	350.4	547.8	0.984	3.003	-34.49	0.413	82.1	86.5	-45.7	0.324
4-1730	4-2330	0.651	279.3	59.1	31.48	1.235	93.6	0.509	2.000	349.4	550.0	0.982	3.018	-28.84	0.416	80.0	85.5	-43.4	0.287
4-1730	4-2350	0.575	276.3	53.8	27.05	1.235	94.0	0.511	2.008	348.1	552.0	0.981	3.035	-24.74	0.420	78.0	84.8	-40.6	0.264
4-1730	4-2370	0.520	275.0	48.8	23.66	1.236	94.5	0.515	2.017	346.7	553.9	0.979	3.055	-21.68	0.423	76.1	84.5	-37.5	0.249
4-1730	4-2390	0.478	274.8	44.0	20.97	1.237	95.1	0.518	2.026	345.0	555.8	0.977	3.076	-19.32	0.428	74.3	84.6	-34.6	0.240
4-1730	4-2410	0.447	275.3	39.3	18.77	1.238	95.7	0.522	2.036	343.2	557.5	0.974	3.099	-17.47	0.432	72.6	85.2	-31.7	0.235
4-1730	4-2430	0.423	276.3	34.7	16.93	1.239	96.4	0.526	2.047	341.3	559.2	0.970	3.124	-15.98	0.437	71.0	86.1	-29.2	0.234
4-1730	4-2450	0.406	277.7	30.3	15.36	1.240	97.2	0.531	2.058	339.2	560.8	0.966	3.150	-14.77	0.443	69.5	87.3	-26.8	0.234
4-1730	4-2470	0.394	279.4	26.0	13.99	1.241	98.0	0.536	2.069	337.1	562.4	0.961	3.177	-13.78	0.448	68.0	88.8	-24.7	0.237
4-1730	4-2490	0.386	281.4	21.9	12.78	1.242	98.8	0.541	2.081	334.8	563.8	0.955	3.206	-12.96	0.454	66.6	90.6	-22.9	0.240
4-1730	4-2510	0.382	283.6	17.9	11.69	1.243	99.7	0.547	2.092	332.4	565.2	0.948	3.236	-12.27	0.460	65.2	92.7	-21.2	0.245
4-1730	4-2530	0.382	285.9	14.1	10.70	1.245	100.6	0.553	2.104	330.0	566.6	0.941	3.268	-11.70	0.466	63.9	94.9	-19.8	0.251
4-1730	4-2550	0.385	288.3	10.5	9.79	1.246	101.6	0.560	2.116	327.4	567.8	0.932	3.301	-11.22	0.472	62.7	97.4	-18.5	0.257
4-1730	4-2570	0.391	290.9	7.2	8.93	1.247	102.6	0.567	2.129	324.7	569.0	0.922	3.335	-10.82	0.478	61.4	100.0	-17.3	0.265
4-1730	4-2590	0.400	293.6	4.0	8.12	1.248	103.7	0.574	2.141	321.8	570.1	0.911	3.371	-10.50	0.484	60.2	102.8	-16.3	0.273
4-1730	4-2610	0.411	296.3	1.2	7.35	1.249	104.9	0.583	2.154	318.9	571.2	0.898	3.409	-10.24	0.491	59.0	105.7	-15.4	0.282
4-1730	4-2630	0.425	299.0	-1.4	6.60	1.250	106.1	0.592	2.166	315.8	572.1	0.884	3.448	-10.04	0.497	57.8	108.8	-14.6	0.291
4-1730	4-2650	0.442	301.8	-3.8	5.88	1.251	107.5	0.602	2.179	312.6	573.0	0.868	3.490	-9.89	0.504	56.5	112.1	-13.8	0.302
4-1730	4-2670	0.462	304.7	-5.9	5.16	1.252	108.9	0.612	2.192	309.3	573.7	0.850	3.533	-9.79	0.510	55.3	115.5	-13.2	0.313
4-1730	4-2690	0.484	307.6	-7.8	4.44	1.253	110.3	0.623	2.205	305.8	574.4	0.830	3.579	-9.75	0.517	54.1	119.0	-12.6	0.325
4-1730	4-2710	0.509	310.4	-9.4	3.72	1.254	111.9	0.636	2.218	302.1	574.9	0.808	3.628	-9.76	0.523	52.8	122.7	-12.0	0.338
4-1730	4-2730	0.536	313.3	-10.9	2.98	1.255	113.6	0.649	2.231	298.2	575.3	0.783	3.679	-9.82	0.530	51.4	126.5	-11.6	0.353
4-1740	4-1880	0.597	260.3	-22.6	0.21	1.595	94.5	1.517	-1.904	352.6	454.5	0.985	---	10.56	1.112	149.8	104.6	6.4	0.923
4-1740	4-1900	0.494	256.9	-24.6	-0.57	1.497	92.9	1.218	-4.533	354.7	460.7	0.988	---	10.75	0.963	147.1	105.7	7.2	0.775

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1740	4-1920	0.421	252.5	-27.2	-1.38	1.427	91.5	1.01662	2.646	357.1	467.1	0.990	---	11.00	0.848	144.1	106.8	8.3	0.660
4-1740	4-1940	0.370	247.4	-30.2	-2.22	1.376	90.2	0.875	7.932	359.7	473.6	0.990	---	11.31	0.758	141.0	107.6	-9.5	0.568
4-1740	4-1960	0.335	241.6	-33.6	-3.10	1.339	89.0	0.775	4.398	2.2	120.0	---	---	11.70	0.685	137.6	108.2	10.9	0.493
4-1740	4-1980	0.313	235.5	-37.3	-4.04	1.311	88.1	0.702	3.323	4.7	126.3	---	---	12.16	0.627	134.1	108.4	12.7	0.432
4-1740	4-2000	0.300	229.2	-41.2	-5.05	1.290	87.3	0.649	2.816	6.9	132.4	---	---	12.73	0.579	130.5	108.3	14.7	0.383
4-1740	4-2020	0.296	222.7	-45.2	-6.16	1.274	86.7	0.610	2.529	8.8	138.1	---	---	13.40	0.541	126.7	107.9	17.1	0.342
4-1740	4-2040	0.298	216.2	-49.4	-7.38	1.263	86.2	0.581	2.349	10.4	143.4	---	---	14.20	0.510	123.0	106.9	19.8	0.310
4-1740	4-2060	0.305	209.4	-53.6	-8.75	1.254	85.8	0.559	2.231	11.7	148.4	---	---	15.17	0.484	119.2	105.4	22.9	0.284
4-1740	4-2080	0.319	201.9	-57.8	-10.30	1.247	85.5	0.543	2.149	12.7	153.1	---	---	16.34	0.464	115.5	103.5	26.3	0.266
4-1740	4-2100	0.339	193.2	-61.8	-12.11	1.242	85.4	0.531	2.092	13.4	157.4	---	---	17.76	0.448	111.8	101.0	29.9	0.254
4-1740	4-2120	0.367	182.4	-65.5	-14.25	1.238	85.3	0.522	2.051	13.8	161.3	---	---	19.53	0.436	108.3	98.1	33.7	0.250
4-1740	4-2140	0.404	168.5	-68.4	-16.83	1.235	85.3	0.515	2.023	14.0	165.0	---	---	21.76	0.426	104.8	95.0	37.3	0.252
4-1740	4-2160	0.454	151.1	-69.9	-20.04	1.233	85.3	0.511	2.004	14.0	168.5	---	---	24.61	0.419	101.5	91.8	40.7	0.262
4-1740	4-2180	0.521	131.9	-69.5	-24.14	1.232	85.3	0.507	1.991	13.9	171.7	---	---	28.36	0.414	98.4	88.9	43.6	0.282
4-1740	4-2200	0.614	114.5	-66.7	-29.55	1.231	85.4	0.505	1.983	13.7	174.7	---	---	33.42	0.411	95.3	86.5	45.8	0.314
4-1740	4-2220	0.742	100.9	-61.5	-36.93	1.231	85.4	0.504	1.980	13.7	177.6	---	---	40.47	0.409	92.4	85.2	47.0	0.362
4-1740	4-2240	0.923	91.2	-54.2	-47.29	1.231	85.4	0.504	1.979	13.8	180.4	---	2.977	50.49	0.408	89.6	85.1	46.6	0.433
4-1740	4-2260	1.166	84.5	-44.6	-61.77	1.231	85.1	0.505	1.981	14.5	183.0	---	2.982	64.64	0.408	86.9	86.6	43.9	0.532
4-1740	4-2300	1.439	25.5	74.8	79.15	1.232	91.6	0.503	1.990	355.2	545.8	0.989	2.991	-76.95	0.412	84.1	92.9	-40.6	0.614
4-1740	4-2320	1.164	336.4	79.3	61.55	1.232	91.2	0.504	1.997	356.3	548.3	0.990	3.004	-59.69	0.415	81.8	92.8	-45.0	0.501
4-1740	4-2340	0.943	296.8	74.9	48.43	1.233	91.3	0.506	2.005	356.3	550.5	0.990	3.020	-46.90	0.418	79.6	91.8	-46.5	0.414
4-1740	4-2360	0.781	282.5	68.4	39.10	1.234	91.5	0.509	2.014	355.6	552.5	0.989	3.038	-37.91	0.422	77.6	90.5	-45.8	0.353
4-1740	4-2380	0.665	277.0	62.0	32.41	1.235	91.9	0.511	2.023	354.4	554.5	0.989	3.058	-31.56	0.426	75.8	89.4	-43.7	0.313
4-1740	4-2400	0.580	274.8	56.1	27.46	1.236	92.4	0.514	2.033	353.0	556.3	0.988	3.079	-26.96	0.431	74.1	88.9	-41.0	0.286
4-1740	4-2420	0.516	274.4	50.5	23.67	1.237	92.9	0.517	2.044	351.4	558.1	0.987	3.102	-23.52	0.436	72.5	88.9	-38.0	0.269
4-1740	4-2440	0.469	274.9	45.1	20.67	1.238	93.6	0.521	2.055	349.6	559.8	0.985	3.126	-20.88	0.441	70.9	89.4	-35.0	0.259
4-1740	4-2460	0.433	276.1	40.0	18.23	1.239	94.3	0.525	2.067	347.6	561.4	0.982	3.151	-18.82	0.446	69.5	90.3	-32.2	0.253
4-1740	4-2480	0.406	277.9	35.0	16.20	1.240	95.0	0.529	2.078	345.5	562.9	0.979	3.177	-17.17	0.452	68.1	91.6	-29.7	0.250
4-1740	4-2500	0.386	279.9	30.1	14.48	1.241	95.8	0.533	2.090	343.3	564.4	0.976	3.204	-15.83	0.458	66.8	93.2	-27.3	0.250
4-1740	4-2520	0.373	282.3	25.3	12.98	1.243	96.6	0.538	2.102	341.0	565.8	0.971	3.233	-14.73	0.464	65.6	95.1	-25.2	0.252
4-1740	4-2540	0.364	285.0	20.8	11.65	1.244	97.5	0.543	2.115	338.5	567.2	0.966	3.263	-13.82	0.470	64.4	97.2	-23.4	0.255
4-1740	4-2560	0.359	287.8	16.4	10.46	1.245	98.5	0.549	2.127	336.0	568.5	0.960	3.294	-13.07	0.476	63.2	99.6	-21.7	0.259
4-1740	4-2580	0.359	290.8	12.2	9.38	1.246	99.4	0.555	2.140	333.3	569.7	0.953	3.326	-12.44	0.482	62.0	102.1	-20.3	0.265
4-1740	4-2600	0.362	293.9	8.4	8.38	1.247	100.5	0.561	2.152	330.6	570.9	0.944	3.360	-11.91	0.488	60.9	104.8	-19.0	0.271
4-1740	4-2620	0.369	297.1	4.8	7.45	1.248	101.6	0.568	2.165	327.7	572.0	0.935	3.395	-11.48	0.495	59.8	107.7	-17.8	0.278
4-1740	4-2640	0.379	300.4	1.6	6.58	1.249	102.8	0.576	2.178	324.7	573.0	0.924	3.432	-11.13	0.501	58.8	110.8	-16.8	0.287
4-1740	4-2660	0.392	303.6	-1.4	5.74	1.250	104.0	0.584	2.191	321.6	574.0	0.911	3.470	-10.84	0.508	57.7	114.0	-15.9	0.295
4-1740	4-2680	0.408	307.0	-3.9	4.93	1.251	105.3	0.593	2.204	318.3	574.8	0.897	3.510	-10.63	0.514	56.6	117.3	-15.0	0.305
4-1740	4-2700	0.426	310.3	-6.2	4.13	1.252	106.7	0.603	2.217	314.9	575.6	0.881	3.552	-10.47	0.521	55.5	120.8	-14.3	0.316
4-1740	4-2720	0.448	313.6	-8.1	3.35	1.253	108.1	0.613	2.230	311.3	576.2	0.863	3.597	-10.37	0.527	54.4	124.4	-13.6	0.327
4-1740	4-2740	0.472	316.8	-9.8	2.57	1.255	109.7	0.625	2.243	307.6	576.8	0.842	3.644	-10.33	0.534	53.2	128.1	-13.0	0.340
4-1750	4-1890	0.556	254.7	-23.2	-0.17	1.563	88.8	1.426	-2.328	2.0	95.9	---	---	10.62	1.067	149.0	106.0	6.6	0.878
4-1750	4-1910	0.466	249.9	-25.1	-0.93	1.472	87.6	1.149	-6.632	4.6	102.5	---	---	10.70	0.925	146.2	106.9	7.4	0.737
4-1750	4-1930	0.405	244.2	-27.3	-1.70	1.407	86.4	0.964	27.782	7.4	109.3	---	---	10.83	0.816	143.2	107.8	8.4	0.628
4-1750	4-1950	0.364	238.1	-29.7	-2.48	1.360	85.3	0.836	6.023	10.3	116.1	---	---	11.02	0.730	139.9	108.4	9.6	0.540
4-1750	4-1970	0.338	231.8	-32.1	-3.29	1.325	84.4	0.746	3.866	13.1	122.8	---	---	11.26	0.661	136.5	108.7	10.9	0.469
4-1750	4-1990	0.323	225.7	-34.7	-4.12	1.300	83.7	0.681	3.070	15.6	129.2	---	---	11.57	0.605	132.9	108.8	12.5	0.411
4-1750	4-2010	0.314	220.0	-37.3	-5.00	1.280	83.1	0.635	2.667	17.9	135.3	---	---	11.95	0.561	129.1	108.5	14.3	0.363
4-1750	4-2030	0.312	214.7	-40.0	-5.94	1.266	82.6	0.600	2.430	19.8	141.0	---	---	12.41	0.524	125.3	107.8	16.5	0.325
4-1750	4-2050	0.313	209.8	-42.9	-6.94	1.255	82.3	0.575	2.279	21.3	146.2	---	---	12.96	0.495	121.5	106.6	18.8	0.293
4-1750	4-2070	0.318	205.0	-46.0	-8.04	1.247	82.0	0.557	2.179	22.4	151.1	---	---	13.61	0.472	117.7	105.0	21.5	0.269
4-1750	4-2090	0.327	200.3	-49.1	-9.25	1.241	81.9	0.543	2.109	23.2	155.6	---	---	14.40	0.454	113.9	102.9	24.3	0.250
4-1750	4-2110	0.339	195.3	-52.5	-10.59	1.237	81.8	0.532	2.061	23.7	159.7	---	---	15.34	0.439	110.3	100.4	27.4	0.237
4-1750	4-2130	0.355	189.8	-55.9	-12.12	1.233	81.8	0.525	2.027	23.9	163.5	---	---	16.47	0.428	106.7	97.7	30.5	0.229
4-1750	4-2150	0.376	183.1	-59.2	-13.89	1.231	81.9	0.519	2.004	23.9	167.0	---	---	17.85	0.420	103.3	94.8	33.5	0.227
4-1750	4-2170	0.404	174.8	-62.3	-15.96	1.230	82.0	0.515	1.989	23.6	170.3	---	---	19.55	0.414	100.0	91.9	36.4	0.230
4-1750	4-2190	0.439	164.2	-64.9	-18.45	1.229	82.2	0.512	1.979	23.2	173.3	---	---	21.67	0.410	96.9	89.2	39.1	0.238
4-1750	4-2210	0.487	151.1	-66.4	-21.52	1.228	82.4	0.510	1.974	22.6	176.2	---	---	24.38	0.407	94.0	87.0	41.6	0.252
4-1750	4-2230	0.549	136.2	-66.3	-25.40	1.228	82.6	0.509	1.973	22.0	178.9	---	---	27.90	0.406	91.2	85.5	43.8	0.275
4-1750	4-2250	0.634	121.6	-64.3	-30.47	1.228	82.8	0.509	1.974	21.4	181.4	---	2.978	32.62	0.406	88.5	84.9	45.5	0.307
4-1750	4-2270	0.752	109.2	-60.1	-37.30	1.228	83.0	0.509	1.978	20.8	183.9	---	2.984	39.10	0.408	86.0	85.4	46.5	0.353
4-1750	4-2290	0.915	99.8	-53.7	-46.78	1.229	83.1	0.510	1.983	20.5	186.2	---	2.995	48.23	0.410	83.6	87.3	46.4	0.419
4-1750	4-2310	1.137	93.3	-45.0	-60.01	1.230	83.1	0.512	1.990	20.6	188.5	---	3.009	61.12	0.412	81.3	90.5	44.3	0.510
4-1750	4-2330	1.412	89.0	-34.1	-77.52	1.230	82.7	0.515	1.998	21.6	190.8	---	3.027	78.29	0.415	79.0	94.6	39.7	0.625
4-1750	4-2370	1.205	349.0	84.8	64.20	1.232	89.6	0.508	2.017	1.2	193.0	---	3.041	-64.12	0.423	77.3	98.7	-43.8	0.537
4-1750	4-2390	0.969	285.8	78.6	50.01	1.233	89.6	0.510	2.027	1.2	195.0	---	3.062	-50.28	0.428	75.4	97.3	-45.8	0.444
4-1750	4-2410	0.792	275.3	70.4	39.79	1.234	89.9	0.513	2.038	0.4	196.9	---	3.083	-40.41	0.433	73.7	95.6	-45.4	0.378
4-1750	4-2430	0.664	272.6	63.1	32.46	1.236	90.3	0.516	2.049	359.2	558.6	0.993	3.106	-33.43	0.438	72.1	94.4	-43.5	0.334
4-1750	4-2450	0.571	272.2	56.6	27.05	1.237	90.8	0.518	2.061	357.6	560.3	0.993	3.130	-28.39	0.444	70.7	94.0	-40.7	0.305
4-1750	4-2470	0.502	273.1	50.4	22.94	1.238	91.4	0.522	2.073	355.8	561.9	0.992	3.154	-24.64	0.449	69.3	94.2	-37.7	0.286
4-1750	4-2490	0.451	274.6	44.6	19.71	1.239	92.1	0.525	2.085	353.8	563.5	0.991	3.180	-21.79	0.455	68.0	94.9	-34.8	0.275
4-1750	4-2510	0.412	276.8	38.9	17.10	1.240	92.9	0.528	2.098	351.7	565.0	0.989	3.207	-19.56	0.461	66.8	96.2	-32.0	0.268
4-1750	4-2530	0.383	279.3	33.4	14.93	1.241	93.7	0.532	2.110	349.4	566.4	0.987	3.234	-17.78	0.467	65.6	97.8	-29.4	0.265
4-1750	4-2550	0.362	282.3	28.1	13.09	1.242	94.5	0.537	2.123	347.0	567.8	0.984	3.262	-16.35	0.473	64.5	99.7	-27.1	0.264
4-1750	4-2570	0.348	285.5	22.9	11.50	1.244	95.4	0.541	2.136	344.6	569.1	0.980	3.292	-15.18	0.480	63.5	101.9	-25.0	0.266
4-1750	4-2590	0.339	288.9	17.9	10.10	1.245	96.4	0.546	2.149	341.9	570.4	0.976	3.322	-14.22	0.486	62.4	104.3	-23.2	0.269
4-1750	4-2610	0.335	292.5	13.2	8.85	1.246	97.4	0.551	2.162	339.2	571.6	0.970	3.354	-13.42	0.492	61.4	107.0	-21.6	0.273
4-1750	4-2630	0.336	296.3	8.8	7.71	1.247	98.4	0.557	2.175	336.4	572.8	0.963	3.387	-12.76	0.499	60.4	109.8	-20.1	0.278
4-1750	4-2650	0.340	300.1	4.8	6.67	1.248	99.5	0.563	2.188	333.5	573.8	0.955	3.421	-12.21	0.505	59.5	112.8	-18.9	0.285
4-1750	4-2670	0.349	304.0	1.2	5.69	1.249	100.7	0.570	2.201	330.4	574.9	0.946	3.457	-11.75	0.512	58.5	115.9	-17.7	0.292

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1770	4-2590	0.387	276.0	36.9	15.70	1.240	89.6	0.536	2.150	1.3	210.3	---	3.301	-21.28	0.486	63.3	107.5	-32.1	0.296
4-1770	4-2610	0.349	280.1	30.1	12.99	1.241	90.4	0.539	2.163	358.8	571.6	0.998	3.329	-18.96	0.493	62.5	109.4	-29.3	0.290
4-1770	4-2630	0.322	284.5	23.6	10.77	1.243	91.3	0.542	2.177	356.2	572.9	0.998	3.357	-17.14	0.499	61.6	111.6	-26.8	0.287
4-1770	4-2650	0.304	289.3	17.4	8.91	1.244	92.3	0.545	2.191	353.4	574.1	0.996	3.386	-15.68	0.506	60.8	114.2	-24.6	0.287
4-1770	4-2670	0.294	294.4	11.5	7.31	1.245	93.3	0.549	2.205	350.6	575.3	0.994	3.417	-14.50	0.513	60.1	116.9	-22.6	0.289
4-1770	4-2690	0.290	299.6	6.1	5.90	1.246	94.4	0.554	2.219	347.6	576.4	0.990	3.448	-13.54	0.519	59.3	119.9	-20.9	0.293
4-1770	4-2710	0.291	305.1	1.3	4.65	1.247	95.5	0.559	2.233	344.5	577.4	0.985	3.480	-12.75	0.526	58.6	123.1	-19.4	0.298
4-1770	4-2730	0.297	310.6	-2.8	3.52	1.248	96.7	0.564	2.247	341.3	578.4	0.979	3.514	-12.10	0.533	57.9	126.4	-18.1	0.303
4-1770	4-2750	0.307	316.0	-6.3	2.48	1.249	98.0	0.570	2.261	337.9	579.3	0.972	3.549	-11.57	0.539	57.1	129.9	-17.0	0.310
4-1770	4-2770	0.321	321.4	-9.0	1.51	1.250	99.3	0.577	2.274	334.4	580.2	0.963	3.586	-11.14	0.545	56.4	133.5	-16.0	0.318
4-1780	4-1920	0.606	232.5	-22.2	-1.38	1.458	70.3	1.116	-7.728	37.3	107.5	---	---	10.06	0.913	148.0	106.9	6.5	0.745
4-1780	4-1940	0.551	227.2	-22.8	-2.11	1.387	70.0	0.936	13.796	41.4	115.5	---	---	9.84	0.792	144.8	107.1	7.2	0.626
4-1780	4-1960	0.517	222.6	-23.5	-2.80	1.338	69.8	0.820	4.814	45.2	123.3	---	---	9.67	0.699	141.2	107.1	7.9	0.533
4-1780	4-1980	0.496	218.8	-24.2	-3.47	1.303	69.5	0.742	3.323	48.5	130.5	---	---	9.56	0.627	137.4	106.8	8.8	0.459
4-1780	4-2000	0.482	215.6	-25.0	-4.12	1.277	69.4	0.689	2.728	51.3	137.2	---	---	9.49	0.569	133.4	106.2	9.8	0.399
4-1780	4-2020	0.472	213.0	-26.0	-4.76	1.259	69.3	0.652	2.419	53.5	143.1	---	---	9.46	0.524	129.3	105.3	10.9	0.351
4-1780	4-2040	0.466	211.0	-27.1	-5.40	1.245	69.3	0.626	2.237	55.0	148.5	---	---	9.48	0.488	125.0	104.0	12.2	0.312
4-1780	4-2060	0.461	209.3	-28.3	-6.03	1.235	69.4	0.607	2.122	56.1	153.3	---	---	9.54	0.460	120.8	102.2	13.5	0.280
4-1780	4-2080	0.457	208.0	-29.7	-6.67	1.228	69.5	0.593	2.046	56.6	157.6	---	---	9.64	0.438	116.5	100.2	14.9	0.255
4-1780	4-2100	0.455	206.9	-31.2	-7.33	1.223	69.7	0.582	1.996	56.8	161.5	---	---	9.79	0.422	112.4	97.8	16.4	0.235
4-1780	4-2120	0.452	205.9	-32.9	-8.00	1.220	70.0	0.573	1.962	56.6	165.1	---	---	9.98	0.409	108.3	95.2	17.8	0.220
4-1780	4-2140	0.451	205.0	-34.8	-8.70	1.217	70.3	0.567	1.940	56.2	168.3	---	---	10.22	0.401	104.5	92.6	19.2	0.209
4-1780	4-2160	0.450	204.2	-36.8	-9.43	1.216	70.7	0.561	1.927	55.5	171.3	---	---	10.52	0.395	100.8	89.9	20.6	0.201
4-1780	4-2180	0.449	203.4	-38.9	-10.21	1.215	71.1	0.557	1.920	54.6	174.0	---	---	10.88	0.391	97.4	87.4	21.9	0.196
4-1780	4-2200	0.450	202.5	-41.2	-11.04	1.215	71.5	0.553	1.918	53.5	176.6	---	---	11.31	0.389	94.2	85.2	23.1	0.194
4-1780	4-2220	0.452	201.4	-43.7	-11.95	1.215	72.0	0.550	1.920	52.3	179.0	---	---	11.83	0.389	91.2	83.3	24.2	0.194
4-1780	4-2240	0.455	200.0	-46.4	-12.94	1.216	72.4	0.548	1.924	51.0	181.3	---	2.978	12.45	0.390	88.5	81.9	25.4	0.196
4-1780	4-2260	0.460	198.3	-49.2	-14.04	1.216	73.0	0.546	1.931	49.5	183.4	---	2.984	13.19	0.392	85.9	80.9	26.5	0.200
4-1780	4-2280	0.468	196.0	-52.2	-15.29	1.217	73.5	0.544	1.939	48.0	185.5	---	2.993	14.08	0.395	83.5	80.4	27.8	0.205
4-1780	4-2300	0.480	192.9	-55.2	-16.71	1.218	74.0	0.542	1.949	46.4	187.4	---	3.005	15.16	0.399	81.4	80.3	29.1	0.212
4-1780	4-2320	0.495	188.7	-58.2	-18.38	1.220	74.6	0.541	1.959	44.7	189.3	---	3.019	16.49	0.403	79.3	80.7	30.6	0.221
4-1780	4-2340	0.517	182.7	-61.1	-20.37	1.221	75.2	0.540	1.971	43.0	191.2	---	3.036	18.15	0.408	77.5	81.6	32.3	0.232
4-1780	4-2360	0.548	174.6	-63.6	-22.80	1.222	75.8	0.539	1.984	41.3	192.9	---	3.053	20.25	0.413	75.7	83.0	34.2	0.246
4-1780	4-2380	0.590	163.7	-65.2	-25.87	1.223	76.4	0.539	1.997	39.5	194.7	---	3.072	22.99	0.418	74.1	85.1	36.3	0.265
4-1780	4-2400	0.649	150.6	-65.2	-29.86	1.225	77.0	0.539	2.010	37.8	196.3	---	3.092	26.66	0.424	72.6	87.8	38.7	0.291
4-1780	4-2420	0.735	137.3	-63.2	-35.26	1.226	77.5	0.539	2.024	36.2	198.0	---	3.114	31.75	0.430	71.2	91.5	41.0	0.326
4-1780	4-2440	0.860	125.9	-58.5	-42.90	1.228	78.0	0.539	2.038	34.7	199.6	---	3.137	39.07	0.436	69.8	96.5	43.0	0.378
4-1780	4-2460	1.044	118.0	-50.9	-54.12	1.229	78.4	0.541	2.052	33.6	201.2	---	3.161	49.97	0.442	68.5	103.2	43.6	0.456
4-1780	4-2480	1.306	113.5	-40.2	-70.63	1.230	78.5	0.543	2.066	33.1	202.8	---	3.189	66.16	0.449	67.2	111.3	41.6	0.570
4-1780	4-2520	1.211	192.8	78.7	64.71	1.233	84.8	0.528	2.095	15.0	205.1	---	3.201	-69.82	0.462	66.8	119.7	-41.5	0.602
4-1780	4-2540	0.914	241.2	72.2	46.78	1.234	84.9	0.531	2.110	14.6	206.6	---	3.230	-52.21	0.468	65.7	116.1	-43.9	0.486
4-1780	4-2560	0.702	256.8	62.5	34.44	1.236	85.4	0.533	2.125	13.3	208.1	---	3.257	-40.20	0.475	64.6	113.1	-42.8	0.408
4-1780	4-2580	0.558	264.2	53.4	26.09	1.237	86.0	0.535	2.139	11.5	209.5	---	3.284	-32.18	0.482	63.7	111.7	-39.9	0.359
4-1780	4-2600	0.460	269.4	44.9	20.23	1.238	86.7	0.537	2.154	9.4	210.8	---	3.311	-26.67	0.489	62.9	111.7	-38.3	0.330
4-1780	4-2620	0.392	274.2	36.8	15.95	1.240	87.6	0.539	2.168	7.0	212.2	---	3.338	-22.73	0.496	62.1	112.7	-32.8	0.312
4-1780	4-2640	0.345	279.0	29.0	12.68	1.241	88.4	0.542	2.183	4.4	213.4	---	3.365	-19.82	0.502	61.4	114.4	-29.6	0.302
4-1780	4-2660	0.312	284.0	21.6	10.09	1.242	89.4	0.544	2.197	1.7	214.7	---	3.393	-17.60	0.509	60.7	116.6	-26.8	0.297
4-1780	4-2680	0.291	289.4	14.6	7.98	1.243	90.4	0.547	2.212	358.9	575.9	1.001	3.422	-15.87	0.516	60.0	119.1	-24.4	0.296
4-1780	4-2700	0.278	295.2	8.1	6.22	1.244	91.4	0.551	2.226	356.0	577.0	1.000	3.452	-14.50	0.523	59.4	122.0	-22.3	0.297
4-1780	4-2720	0.272	301.2	2.2	4.70	1.246	92.5	0.554	2.240	352.9	578.1	0.999	3.482	-13.39	0.529	58.8	125.1	-20.5	0.300
4-1780	4-2740	0.272	307.5	-2.8	3.38	1.247	93.7	0.558	2.255	349.7	579.1	0.995	3.514	-12.50	0.536	58.1	128.3	-18.9	0.304
4-1780	4-2760	0.277	313.8	-7.0	2.21	1.248	94.9	0.563	2.269	346.4	580.1	0.991	3.547	-11.76	0.542	57.5	131.7	-17.6	0.309
4-1780	4-2780	0.287	320.1	-10.3	1.14	1.249	96.2	0.568	2.283	342.9	581.0	0.985	3.581	-11.17	0.549	56.8	135.3	-16.4	0.316
4-1790	4-1950	0.629	223.9	-22.0	-2.60	1.359	63.7	0.884	6.834	56.4	122.7	---	---	9.29	0.743	144.9	105.7	6.7	0.594
4-1790	4-1970	0.597	220.4	-22.5	-3.29	1.314	63.8	0.792	3.763	60.1	130.4	---	---	9.04	0.655	141.1	105.4	7.3	0.507
4-1790	4-1990	0.575	217.7	-23.2	-3.93	1.282	63.9	0.732	2.877	63.1	137.3	---	---	8.84	0.587	137.0	104.7	8.1	0.437
4-1790	4-2010	0.560	215.6	-23.9	-4.54	1.260	64.0	0.691	2.471	65.4	143.4	---	---	8.70	0.533	132.7	103.7	8.9	0.381
4-1790	4-2030	0.548	213.9	-24.8	-5.13	1.244	64.2	0.662	2.248	67.0	148.8	---	---	8.59	0.492	128.3	102.4	9.9	0.337
4-1790	4-2050	0.539	212.7	-25.7	-5.70	1.232	64.4	0.641	2.112	68.0	153.6	---	---	8.53	0.459	123.7	100.7	10.9	0.301
4-1790	4-2070	0.532	211.7	-26.8	-6.27	1.224	64.7	0.625	2.025	68.5	157.9	---	---	8.51	0.434	119.2	98.6	11.9	0.272
4-1790	4-2090	0.526	211.0	-28.0	-6.83	1.218	65.0	0.613	1.969	68.6	161.7	---	---	8.52	0.415	114.7	96.3	13.0	0.249
4-1790	4-2110	0.520	210.4	-29.3	-7.39	1.214	65.4	0.604	1.932	68.3	165.2	---	---	8.57	0.401	110.3	93.8	14.0	0.231
4-1790	4-2130	0.514	210.0	-30.7	-7.96	1.212	65.8	0.596	1.909	67.7	168.3	---	---	8.65	0.391	106.2	91.2	15.0	0.218
4-1790	4-2150	0.509	209.7	-32.2	-8.54	1.210	66.2	0.590	1.895	66.9	171.2	---	---	8.78	0.384	102.2	88.6	16.0	0.208
4-1790	4-2170	0.505	209.4	-33.9	-9.14	1.209	66.7	0.584	1.888	65.9	173.8	---	---	8.94	0.380	98.5	86.2	16.9	0.201
4-1790	4-2190	0.501	209.2	-35.7	-9.76	1.209	67.2	0.580	1.886	64.7	176.3	---	---	9.15	0.378	95.0	84.0	17.7	0.197
4-1790	4-2210	0.497	208.9	-37.6	-10.41	1.209	67.7	0.576	1.889	63.4	178.6	---	---	9.41	0.378	91.8	82.2	18.5	0.195
4-1790	4-2230	0.494	208.6	-39.6	-11.10	1.210	68.3	0.572	1.894	61.9	180.8	---	2.977	9.73	0.379	88.9	80.7	19.2	0.195
4-1790	4-2250	0.492	208.2	-41.8	-11.83	1.211	68.9	0.569	1.901	60.4	182.9	---	2.982	10.10	0.382	86.2	79.7	19.9	0.196
4-1790	4-2270	0.491	207.7	-44.1	-12.63	1.212	69.5	0.566	1.911	58.7	184.9	---	2.992	10.55	0.385	83.7	79.0	20.7	0.198
4-1790	4-2290	0.491	206.9	-46.6	-13.51	1.213	70.1	0.563	1.921	57.0	186.8	---	3.003	11.10	0.389	81.4	78.8	21.5	0.202
4-1790	4-2310	0.493	205.9	-49.3	-14.49	1.214	70.8	0.561	1.933	55.2	188.6	---	3.017	11.74	0.394	79.3	79.0	22.5	0.206
4-1790	4-2330	0.497	204.3	-52.1	-15.59	1.216	71.4	0.559	1.946	53.4	190.4	---	3.033	12.53	0.399	77.4	79.5	23.5	0.212
4-1790	4-2350	0.504	202.1	-55.1	-16.86	1.217	72.1	0.557	1.959	51.5	192.1	---	3.050	13.48	0.405	75.6	80.4	24.7	0.218
4-1790	4-2370	0.515	198.9	-58.1	-18.35	1.219	72.8	0.555	1.974	49.5	193.8	---	3.069	14.66	0.410	74.0	81.7	26.2	0.226
4-1790	4-2390	0.531	194.2	-61.2	-20.12	1.220	73.4	0.553	1.988	47.6	195.4	---	3.088	16.13	0.416	72.5	83.3	27.9	0.236
4-1790	4-2410	0.555	187.3	-64.0	-22.30	1.222	74.1	0.552	2.003	45.6	197.0	---	3.109	18.01	0.423	71.1	85.3	29.8	0.249
4-1790	4-2430	0.590	177.3	-66.3	-25.05	1.223	74.8	0.551	2.018	43.6	198.6	---	3.130	20.47	0.429	69.8	87.9	32.2	0.265
4-1790	4-2450	0.640	164.1	-67.2	-28.66	1.225	75.5	0.550	2.033	41.6	200.1	---	3.152	23.79	0.436	68.6	91.0	34.9	0.286
4-1790	4-2470	0.715	149.0	-66.1	-33.62	1.226	76.1	0.550	2.048	39.7	201.6	---	3.175	28.46	0.443	67.5	95.1	37.8	0.318

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2180	4-2380	0.516	5.2	-37.9	-12.63	1.407	96.9	1.00001	.525	346.2	469.1	0.996	---	6.18	0.822	144.6	195.0	4.2	0.694
4-2180	4-2400	0.470	5.5	-43.0	-13.13	1.358	95.3	0.865	7.395	348.6	475.2	1.001	---	6.47	0.736	141.1	196.1	5.0	0.604
4-2180	4-2420	0.439	5.9	-48.2	-13.68	1.321	93.9	0.764	4.265	351.1	481.4	1.005	---	6.81	0.667	137.3	197.1	5.8	0.528
4-2180	4-2440	0.419	6.6	-53.1	-14.31	1.293	92.7	0.690	3.246	353.5	487.6	1.008	---	7.23	0.611	133.3	197.8	6.9	0.464
4-2180	4-2460	0.409	7.8	-57.8	-15.02	1.271	91.6	0.633	2.752	355.8	493.7	1.009	---	7.74	0.565	129.1	198.3	8.3	0.411
4-2180	4-2480	0.407	9.9	-62.0	-15.85	1.255	90.8	0.591	2.468	357.9	499.6	1.010	---	8.38	0.529	124.8	198.4	10.0	0.366
4-2180	4-2500	0.411	13.4	-65.7	-16.84	1.242	90.1	0.558	2.287	359.8	505.2	1.010	---	9.17	0.501	120.5	198.1	12.1	0.328
4-2180	4-2520	0.423	19.0	-69.0	-18.05	1.232	89.5	0.534	2.166	1.4	150.6	---	---	10.19	0.478	116.1	197.3	14.8	0.297
4-2180	4-2540	0.442	27.5	-71.5	-19.58	1.224	89.1	0.515	2.082	2.6	155.7	---	---	11.53	0.462	111.8	196.0	18.3	0.273
4-2180	4-2560	0.471	40.0	-73.3	-21.59	1.219	88.8	0.501	2.023	3.6	160.5	---	---	13.36	0.450	107.5	193.9	22.7	0.256
4-2180	4-2580	0.515	56.5	-73.6	-24.39	1.214	88.6	0.490	1.980	4.3	165.1	---	---	15.97	0.441	103.5	191.0	28.2	0.250
4-2180	4-2600	0.584	75.4	-72.0	-28.57	1.211	88.5	0.482	1.950	4.7	169.3	---	---	19.97	0.436	99.6	187.2	34.7	0.258
4-2180	4-2620	0.701	93.7	-67.5	-35.47	1.209	88.4	0.477	1.928	5.0	173.3	---	---	26.68	0.434	96.0	182.4	41.5	0.293
4-2180	4-2640	0.925	109.8	-58.6	-48.56	1.207	88.3	0.473	1.913	5.3	177.1	---	---	39.59	0.434	92.6	176.7	46.4	0.381
4-2180	4-2660	1.372	123.9	-41.4	-76.66	1.206	87.9	0.470	1.904	6.5	180.9	---	2.800	67.50	0.435	89.2	172.2	43.2	0.587
4-2180	4-2680	1.101	212.9	72.9	59.25	1.205	90.8	0.468	1.899	357.5	543.1	1.010	2.788	-68.61	0.438	87.3	174.4	-43.0	0.597
4-2180	4-2700	0.608	282.5	64.7	30.15	1.205	90.5	0.467	1.897	358.3	546.4	1.010	2.784	-39.69	0.442	84.4	176.0	-47.1	0.383
4-2180	4-2720	0.383	304.8	47.7	16.59	1.205	90.7	0.468	1.898	357.7	549.4	1.010	2.785	-26.33	0.447	81.9	174.9	-43.5	0.285
4-2180	4-2740	0.284	316.8	30.5	9.50	1.206	91.1	0.469	1.901	356.5	552.2	1.010	2.792	-19.44	0.452	79.6	173.1	-37.9	0.241
4-2180	4-2760	0.242	326.0	15.0	5.22	1.206	91.6	0.470	1.906	354.9	554.9	1.009	2.802	-15.36	0.458	77.5	171.6	-32.5	0.220
4-2180	4-2780	0.229	333.9	2.6	2.36	1.207	92.2	0.473	1.912	353.0	557.3	1.008	2.816	-12.71	0.465	75.6	170.7	-27.8	0.212
4-2180	4-2800	0.229	341.1	-6.3	0.30	1.208	92.9	0.476	1.919	351.0	559.6	1.006	2.832	-10.87	0.472	73.8	170.4	-23.9	0.211
4-2180	4-2820	0.236	347.7	-12.3	-1.27	1.209	93.7	0.479	1.928	348.7	561.8	1.004	2.852	-9.52	0.478	72.2	170.6	-20.7	0.213
4-2180	4-2840	0.246	353.8	-16.2	-2.51	1.210	94.5	0.483	1.938	346.2	563.9	1.001	2.874	-8.51	0.485	70.7	171.5	-18.0	0.219
4-2180	4-2860	0.259	359.4	-18.4	-3.53	1.211	95.4	0.488	1.948	343.5	565.8	0.997	2.899	-7.73	0.492	69.3	172.8	-15.9	0.226
4-2180	4-2880	0.274	4.6	-19.5	-4.39	1.212	96.4	0.494	1.959	340.6	567.5	0.991	2.926	-7.11	0.499	67.9	174.5	-14.1	0.235
4-2180	4-2900	0.290	9.4	-19.8	-5.14	1.213	97.4	0.500	1.970	337.6	569.2	0.985	2.955	-6.63	0.505	66.6	176.6	-12.6	0.245
4-2190	4-2350	0.615	2.3	-30.6	-11.15	1.538	95.8	1.390	-2.571	350.1	457.9	1.004	---	3.76	1.031	149.6	194.1	2.2	0.904
4-2190	4-2370	0.532	1.6	-35.3	-11.41	1.453	94.1	1.136	-7.405	352.3	463.9	1.008	---	3.84	0.900	146.6	195.4	2.5	0.771
4-2190	4-2390	0.473	0.5	-40.3	-11.69	1.391	92.5	0.95824	.183	354.9	470.2	1.010	---	3.95	0.797	143.3	196.5	2.8	0.664
4-2190	4-2410	0.432	358.9	-45.3	-11.98	1.345	91.1	0.830	5.959	357.6	476.6	1.012	---	4.09	0.714	139.8	197.5	3.3	0.577
4-2190	4-2430	0.404	357.2	-50.1	-12.30	1.310	89.9	0.737	3.844	0.3	123.1	---	---	4.25	0.648	135.9	198.4	3.8	0.504
4-2190	4-2450	0.386	355.3	-54.5	-12.65	1.283	88.8	0.668	3.044	2.9	129.5	---	---	4.45	0.594	131.8	199.0	4.5	0.442
4-2190	4-2470	0.375	353.5	-58.5	-13.04	1.263	88.0	0.616	2.633	5.4	135.7	---	---	4.69	0.552	127.6	199.3	5.3	0.390
4-2190	4-2490	0.370	352.1	-62.0	-13.48	1.248	87.2	0.578	2.389	7.5	141.7	---	---	4.99	0.518	123.2	199.3	6.3	0.346
4-2190	4-2510	0.369	351.3	-65.1	-13.98	1.236	86.7	0.549	2.232	9.4	147.4	---	---	5.35	0.491	118.8	198.9	7.5	0.308
4-2190	4-2530	0.372	351.4	-67.9	-14.57	1.227	86.3	0.527	2.126	10.9	152.8	---	---	5.80	0.471	114.4	198.1	9.0	0.276
4-2190	4-2550	0.378	352.9	-70.3	15.28	1.220	86.0	0.510	2.052	12.0	157.8	---	---	6.38	0.456	110.1	196.7	11.0	0.250
4-2190	4-2570	0.388	356.3	-72.7	-16.15	1.215	85.8	0.498	2.000	12.8	162.5	---	---	7.12	0.445	105.9	194.8	13.4	0.229
4-2190	4-2590	0.403	2.5	-74.8	-17.27	1.211	85.7	0.489	1.963	13.2	166.9	---	---	8.11	0.438	101.9	192.4	16.4	0.213
4-2190	4-2610	0.424	13.1	-76.8	-18.78	1.208	85.7	0.482	1.936	13.3	171.0	---	---	9.48	0.434	98.1	189.5	20.3	0.204
4-2190	4-2630	0.457	30.7	-78.2	-20.92	1.206	85.8	0.477	1.918	13.1	174.9	---	---	11.49	0.433	94.6	186.1	25.2	0.202
4-2190	4-2650	0.511	56.9	-78.0	-24.27	1.205	85.9	0.473	1.906	12.7	178.5	---	---	14.71	0.433	91.4	182.5	31.4	0.211
4-2190	4-2670	0.611	86.7	-74.6	-30.25	1.204	86.1	0.471	1.899	12.1	181.9	---	2.793	20.55	0.436	88.3	178.9	39.0	0.243
4-2190	4-2690	0.838	112.3	-65.0	-43.54	1.203	86.3	0.469	1.896	11.6	185.1	---	2.786	33.72	0.439	85.5	176.0	46.2	0.337
4-2190	4-2710	1.458	134.0	-40.9	-82.81	1.203	86.2	0.470	1.896	12.1	188.3	---	2.786	72.85	0.444	82.8	176.3	41.8	0.632
4-2190	4-2730	0.743	260.9	66.0	38.02	1.204	88.2	0.467	1.898	5.7	190.5	---	2.785	-48.12	0.449	81.0	177.3	-46.9	0.452
4-2190	4-2750	0.360	302.7	43.3	15.12	1.204	88.4	0.468	1.902	4.9	193.3	---	2.793	-25.35	0.455	78.8	174.4	-42.5	0.283
4-2190	4-2770	0.249	318.7	18.3	6.36	1.205	88.9	0.470	1.908	3.3	195.8	---	2.805	-16.73	0.462	76.8	172.2	-34.2	0.230
4-2190	4-2790	0.221	329.6	-1.1	1.92	1.206	89.6	0.472	1.916	1.4	198.2	---	2.819	-12.43	0.468	75.0	171.2	-27.2	0.213
4-2190	4-2810	0.220	338.5	-13.5	-0.76	1.207	90.2	0.474	1.924	359.2	560.5	1.012	2.836	-9.90	0.475	73.4	171.0	-22.0	0.209
4-2190	4-2830	0.228	346.4	-20.7	-2.56	1.208	91.0	0.477	1.934	356.8	562.6	1.012	2.855	-8.24	0.482	71.9	171.5	-18.2	0.211
4-2190	4-2850	0.238	353.5	-24.7	-3.87	1.209	91.9	0.480	1.944	354.3	564.6	1.011	2.877	-7.09	0.489	70.5	172.5	-15.3	0.216
4-2190	4-2870	0.250	359.9	-26.7	-4.87	1.210	92.8	0.484	1.955	351.5	566.5	1.009	2.901	-6.24	0.496	69.2	173.9	-13.1	0.223
4-2190	4-2890	0.262	5.8	-27.2	-5.67	1.211	93.7	0.488	1.966	348.6	568.2	1.006	2.927	-5.60	0.502	67.9	175.8	-11.3	0.232
4-2190	4-2910	0.275	11.2	-26.9	-6.34	1.212	94.8	0.494	1.979	345.5	569.9	1.002	2.955	-5.11	0.509	66.7	178.1	-9.9	0.241
4-2200	4-2360	0.573	357.9	-33.4	-10.78	1.510	90.7	1.314	-3.233	358.8	459.1	1.014	---	1.90	0.992	148.6	195.6	1.1	0.862
4-2200	4-2380	0.499	355.6	-38.1	-10.91	1.431	89.2	1.07713	.252	1.5	105.6	---	---	1.93	0.867	145.6	196.6	1.3	0.736
4-2200	4-2400	0.448	352.6	-42.8	-11.04	1.373	87.9	0.91211	.451	4.4	112.2	---	---	1.96	0.768	142.2	197.6	1.5	0.633
4-2200	4-2420	0.414	349.1	-47.2	-11.18	1.330	86.7	0.794	4.905	7.5	119.0	---	---	2.01	0.689	138.5	198.5	1.7	0.549
4-2200	4-2440	0.390	345.2	-51.2	-11.33	1.297	85.7	0.709	3.462	10.4	125.7	---	---	2.07	0.626	134.5	199.1	1.9	0.479
4-2200	4-2460	0.375	341.2	-54.5	-11.48	1.273	84.8	0.647	2.844	13.2	132.3	---	---	2.14	0.576	130.3	199.5	2.2	0.420
4-2200	4-2480	0.366	337.4	-57.3	-11.65	1.254	84.1	0.601	2.509	15.7	138.6	---	---	2.23	0.535	125.9	199.6	2.6	0.370
4-2200	4-2500	0.360	334.1	-59.6	-11.84	1.240	83.6	0.568	2.304	17.9	144.6	---	---	2.33	0.504	121.5	199.4	3.1	0.328
4-2200	4-2520	0.357	331.3	-61.4	-12.05	1.229	83.1	0.542	2.171	19.6	150.3	---	---	2.46	0.479	117.0	198.7	3.6	0.291
4-2200	4-2540	0.355	329.3	-63.0	-12.28	1.221	82.8	0.524	2.080	21.0	155.5	---	---	2.62	0.461	112.5	197.6	4.3	0.261
4-2200	4-2560	0.355	328.1	-64.4	-12.56	1.215	82.6	0.509	2.017	21.9	160.4	---	---	2.82	0.448	108.2	196.0	5.1	0.235
4-2200	4-2580	0.357	327.9	-65.8	-12.88	1.210	82.6	0.499	1.972	22.5	165.0	---	---	3.07	0.439	104.0	193.9	6.1	0.214
4-2200	4-2600	0.359	328.7	-67.1	-13.27	1.207	82.6	0.491	1.941	22.7	169.2	---	---	3.39	0.434	100.1	191.4	7.3	0.198
4-2200	4-2620	0.363	330.6	-68.5	-13.75	1.205	82.7	0.485	1.919	22.6	173.1	---	---	3.80	0.431	96.4	188.4	8.8	0.185
4-2200	4-2640	0.370	333.8	-70.0	-14.39	1.203	82.9	0.480	1.904	22.1	176.8	---	---	4.37	0.431	93.0	185.2	10.7	0.177
4-2200	4-2660	0.380	339.0	-71.8	-15.26	1.202	83.1	0.477	1.895	21.4	180.2	---	2.799	5.17	0.432	89.8	181.9	13.1	0.172
4-2200	4-2680	0.396	347.2	-74.1	-16.55	1.201	83.4	0.475	1.891	20.5	183.4	---	2.788	6.39	0.435	86.9	178.8	16.3	0.172
4-2200	4-2700	0.426	2.1	-76.8	-18.67	1.201	83.8	0.473	1.890	19.3	186.4	---	2.784	8.44	0.440	84.3	176.0	21.1	0.178
4-2200	4-2720	0.492	36.7	-79.5	-22.88	1.201	84.3	0.472	1.892	17.9	189.3	---	2.785	12.57	0.445	81.9	174.0	28.9	0.198
4-2200	4-2740	0.695	102.0	-74.0	-35.07	1.202	84.7	0.472	1.896	16.5	192.0	---	2.791	24.69	0.451	79.6	174.2	41.9	0.277
4-2200	4-2780	0.307	307.0	30.7	10.92	1.203	86.2	0.472	1.909	11.8	196.9	---	2.810	-21.44	0.464	75.9	173.5	-38.7	0.263
4-2200	4-2800	0.225	326.4	-8.6	0.87	1.204	86.9	0.474	1.917	9.8	199.2	---	2.825	-11.46	0.471	74.3	171.4	-25.2	0.212
4-2200	4-2820	0.229	337.6	-25.9	-2.88	1.205	87.6	0.475	1.927	7.5	201.4	---	2.842	-7.79	0.478	72.7	171.2	-17.6	0.204
4-2200	4-2840	0.240	346.4	-33.2	-4.84	1.207	88.4	0.477	1.937	5.0	203.4	---	2.862	-5.90	0.485	71.3	172.0	-13.2	0.207

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2200	4-2860	0.250	354.0	-36.3	-6.06	1.208	89.3	0.480	1.949	2.3	205.4	---	2.883	-4.77	0.492	70.1	173.3	-10.4	0.213
4-2200	4-2880	0.259	0.8	-37.2	-6.89	1.209	90.2	0.483	1.960	359.4	567.2	1.014	2.907	-4.01	0.499	68.8	175.0	-8.5	0.221
4-2200	4-2900	0.268	7.0	-36.9	-7.51	1.210	91.2	0.486	1.973	356.4	568.9	1.014	2.932	-3.48	0.506	67.7	177.1	-7.1	0.230
4-2200	4-2920	0.277	12.7	-35.7	-7.99	1.212	92.2	0.490	1.986	353.3	570.6	1.012	2.959	-3.09	0.512	66.7	179.5	-6.1	0.239
4-2210	4-2350	0.647	354.1	-31.9	-10.60	1.585	86.5	1.550	-1.841	5.8	94.8	---	---	0.12	1.103	150.6	195.5	0.1	0.974
4-2210	4-2370	0.552	350.9	-36.3	-10.61	1.482	85.3	1.228	-4.427	8.6	101.3	---	---	0.12	0.949	147.8	196.5	0.1	0.821
4-2210	4-2390	0.489	346.9	-40.5	-10.62	1.408	84.1	1.012	83.027	11.7	108.2	---	---	0.12	0.830	144.6	197.4	0.1	0.699
4-2210	4-2410	0.447	342.3	-44.4	-10.63	1.354	83.0	0.864	7.326	15.0	115.3	---	---	0.12	0.736	141.0	198.2	0.1	0.602
4-2210	4-2430	0.418	337.3	-47.6	-10.64	1.314	82.1	0.759	4.118	18.4	122.4	---	---	0.12	0.661	137.2	198.8	0.1	0.522
4-2210	4-2450	0.400	332.4	-50.2	-10.64	1.284	81.3	0.684	3.124	21.5	129.3	---	---	0.12	0.601	133.1	199.2	0.1	0.455
4-2210	4-2470	0.387	327.8	-52.2	-10.65	1.262	80.6	0.630	2.652	24.4	136.0	---	---	0.12	0.554	128.7	199.4	0.1	0.399
4-2210	4-2490	0.379	323.8	-53.6	-10.66	1.245	80.1	0.591	2.384	26.8	142.3	---	---	0.13	0.517	124.2	199.2	0.2	0.351
4-2210	4-2510	0.373	320.5	-54.7	-10.67	1.232	79.7	0.562	2.216	28.9	148.2	---	---	0.13	0.488	119.6	198.6	0.2	0.311
4-2210	4-2530	0.369	318.0	-55.4	-10.68	1.223	79.4	0.541	2.105	30.4	153.7	---	---	0.14	0.466	115.0	197.6	0.2	0.277
4-2210	4-2550	0.365	316.3	-56.0	-10.69	1.215	79.2	0.525	2.029	31.6	158.7	---	---	0.15	0.450	110.5	196.1	0.2	0.249
4-2210	4-2570	0.362	315.3	-56.5	-10.71	1.210	79.2	0.513	1.977	32.3	163.4	---	---	0.15	0.438	106.1	194.2	0.3	0.225
4-2210	4-2590	0.359	314.9	-56.9	-10.72	1.206	79.2	0.504	1.940	32.6	167.7	---	---	0.16	0.431	102.0	191.7	0.3	0.206
4-2210	4-2610	0.356	315.2	-57.2	-10.74	1.203	79.3	0.497	1.914	32.5	171.7	---	---	0.18	0.427	98.1	188.9	0.4	0.191
4-2210	4-2630	0.353	316.0	-57.5	-10.76	1.201	79.5	0.492	1.898	32.1	175.4	---	---	0.19	0.426	94.4	185.8	0.5	0.180
4-2210	4-2650	0.349	317.4	-57.8	-10.79	1.200	79.8	0.488	1.887	31.5	178.8	---	---	0.22	0.427	91.1	182.6	0.5	0.172
4-2210	4-2670	0.346	319.3	-58.0	-10.82	1.199	80.1	0.485	1.881	30.5	182.1	---	2.793	0.24	0.430	88.0	179.5	0.6	0.167
4-2210	4-2690	0.342	321.7	-58.3	-10.86	1.199	80.5	0.482	1.880	29.4	185.1	---	2.786	0.28	0.434	85.3	176.6	0.7	0.165
4-2210	4-2710	0.339	324.6	-58.5	-10.93	1.199	81.0	0.481	1.881	27.9	188.0	---	2.785	0.34	0.439	82.7	174.2	0.9	0.166
4-2210	4-2730	0.336	328.1	-58.8	-11.02	1.200	81.5	0.479	1.885	26.3	190.7	---	2.789	0.43	0.445	80.5	172.2	1.1	0.168
4-2210	4-2750	0.334	332.1	-59.1	-11.19	1.200	82.1	0.479	1.891	24.5	193.2	---	2.796	0.59	0.452	78.4	170.9	1.5	0.172
4-2210	4-2770	0.334	337.2	-59.8	-11.57	1.201	82.7	0.478	1.898	22.6	195.7	---	2.806	0.97	0.459	76.5	170.1	2.4	0.177
4-2210	4-2790	0.353	346.4	-63.8	-13.37	1.202	83.4	0.478	1.907	20.4	198.0	---	2.819	2.77	0.466	74.8	170.0	6.8	0.184
4-2210	4-2810	0.280	337.3	-46.1	-7.46	1.203	84.2	0.479	1.917	18.1	200.2	---	2.835	-3.15	0.473	73.3	170.4	-7.5	0.192
4-2210	4-2830	0.299	346.8	-52.3	-9.61	1.205	85.0	0.480	1.928	15.6	202.3	---	2.852	-1.00	0.480	71.9	171.1	-2.3	0.197
4-2210	4-2850	0.301	353.0	-52.3	-10.02	1.206	85.8	0.481	1.939	13.0	204.3	---	2.872	-0.59	0.488	70.6	172.4	-1.3	0.205
4-2210	4-2870	0.300	358.7	-51.4	-10.20	1.207	86.7	0.482	1.952	10.2	206.2	---	2.893	-0.42	0.495	69.4	174.0	-0.9	0.213
4-2210	4-2890	0.300	4.2	-49.8	-10.30	1.209	87.6	0.484	1.964	7.3	207.9	---	2.916	-0.33	0.502	68.4	176.0	-0.7	0.222
4-2210	4-2910	0.300	9.6	-47.9	-10.36	1.210	88.6	0.487	1.978	4.2	209.6	---	2.941	-0.27	0.509	67.3	178.3	-0.5	0.231
4-2210	4-2930	0.301	14.8	-45.6	-10.41	1.211	89.7	0.490	1.991	1.0	211.2	---	2.967	-0.23	0.515	66.4	180.9	-0.5	0.241
4-2220	4-2360	0.640	346.9	-34.4	-10.73	1.548	80.6	1.425	-2.337	16.1	97.6	---	---	-1.65	1.050	150.1	196.2	-0.9	0.926
4-2220	4-2380	0.558	342.2	-38.2	-10.62	1.452	79.7	1.138	-7.142	19.4	104.7	---	---	-1.64	0.903	147.1	197.0	-1.0	0.779
4-2220	4-2400	0.505	337.1	-41.4	-10.51	1.384	78.8	0.948	18.779	23.1	112.0	---	---	-1.64	0.790	143.7	197.7	-1.2	0.664
4-2220	4-2420	0.470	331.8	-44.0	-10.40	1.334	78.0	0.818	5.320	26.8	119.5	---	---	-1.64	0.701	140.0	198.2	-1.3	0.571
4-2220	4-2440	0.446	326.7	-45.9	-10.29	1.298	77.3	0.728	3.522	30.3	126.8	---	---	-1.65	0.630	136.0	198.6	-1.5	0.495
4-2220	4-2460	0.431	322.2	-47.2	-10.18	1.271	76.7	0.665	2.829	33.6	133.9	---	---	-1.66	0.574	131.6	198.6	-1.7	0.432
4-2220	4-2480	0.420	318.3	-48.0	-10.07	1.250	76.2	0.620	2.472	36.4	140.5	---	---	-1.69	0.530	127.1	198.4	-1.9	0.379
4-2220	4-2500	0.412	315.3	-48.5	-9.95	1.235	75.9	0.587	2.261	38.7	146.6	---	---	-1.72	0.496	122.3	197.8	-2.2	0.334
4-2220	4-2520	0.406	313.0	-48.8	-9.83	1.224	75.7	0.563	2.127	40.4	152.3	---	---	-1.76	0.469	117.6	196.9	-2.5	0.297
4-2220	4-2540	0.400	311.4	-48.9	-9.69	1.215	75.5	0.546	2.037	41.7	157.5	---	---	-1.82	0.450	112.9	195.4	-2.8	0.266
4-2220	4-2560	0.395	310.4	-48.9	-9.55	1.209	75.5	0.532	1.975	42.5	162.2	---	---	-1.88	0.436	108.2	193.5	-3.3	0.240
4-2220	4-2580	0.390	309.9	-48.7	-9.39	1.204	75.6	0.522	1.933	42.9	166.6	---	---	-1.97	0.427	103.8	191.2	-3.7	0.219
4-2220	4-2600	0.384	309.9	-48.5	-9.22	1.201	75.7	0.515	1.904	42.9	170.6	---	---	-2.07	0.422	99.7	188.5	-4.3	0.202
4-2220	4-2620	0.378	310.3	-48.2	-9.02	1.199	76.0	0.509	1.885	42.5	174.3	---	---	-2.19	0.420	95.8	185.5	-4.8	0.190
4-2220	4-2640	0.371	311.1	-47.8	-8.79	1.198	76.3	0.504	1.873	41.9	177.8	---	---	-2.35	0.420	92.3	182.4	-5.5	0.181
4-2220	4-2660	0.364	312.1	-47.3	-8.53	1.197	76.6	0.500	1.867	40.9	181.0	---	2.800	-2.55	0.423	89.0	179.3	-6.1	0.175
4-2220	4-2680	0.356	313.5	-46.6	-8.21	1.197	77.0	0.497	1.864	39.8	184.0	---	2.791	-2.80	0.427	86.1	176.5	-6.9	0.173
4-2220	4-2700	0.347	315.0	-45.5	-7.82	1.197	77.5	0.494	1.866	38.4	186.9	---	2.788	-3.13	0.432	83.4	174.0	-7.8	0.173
4-2220	4-2720	0.337	316.7	-44.1	-7.30	1.197	78.1	0.492	1.870	36.8	189.5	---	2.790	-3.57	0.438	81.0	172.1	-8.9	0.175
4-2220	4-2740	0.325	318.5	-41.9	-6.61	1.198	78.6	0.490	1.876	35.0	192.1	---	2.795	-4.20	0.445	78.8	170.7	-10.3	0.179
4-2220	4-2760	0.311	320.0	-38.4	-5.60	1.199	79.3	0.489	1.883	33.1	194.5	---	2.804	-5.15	0.452	76.9	170.0	-12.3	0.185
4-2220	4-2780	0.295	320.9	-32.3	-3.97	1.200	80.0	0.488	1.893	31.0	196.8	---	2.816	-6.71	0.459	75.1	169.9	-15.5	0.194
4-2220	4-2800	0.278	319.7	-19.5	-0.85	1.201	80.7	0.487	1.903	28.7	199.0	---	2.831	-9.77	0.467	73.6	170.6	-21.2	0.211
4-2220	4-2820	0.306	310.7	13.9	7.58	1.202	81.4	0.487	1.914	26.4	201.2	---	2.847	-18.13	0.474	72.1	173.5	-32.9	0.258
4-2220	4-2860	0.642	74.2	-78.4	-31.57	1.205	83.3	0.487	1.939	20.5	205.0	---	2.883	21.15	0.490	69.8	177.8	35.0	0.289
4-2220	4-2880	0.463	23.5	-71.1	-20.78	1.207	84.2	0.488	1.953	17.8	206.9	---	2.905	10.43	0.497	68.7	176.3	20.4	0.241
4-2220	4-2900	0.405	16.8	-64.7	-17.18	1.208	85.1	0.489	1.967	14.8	208.6	---	2.928	6.89	0.504	67.7	177.8	13.6	0.237
4-2220	4-2920	0.375	17.0	-60.0	-15.38	1.210	86.1	0.490	1.981	11.7	210.2	---	2.952	5.16	0.511	66.8	180.0	10.1	0.242
4-2220	4-2940	0.357	19.5	-56.0	-14.28	1.211	87.2	0.492	1.995	8.5	211.8	---	2.978	4.14	0.518	66.0	182.6	7.9	0.249
4-2230	4-2390	0.592	333.8	-38.4	-10.80	1.422	73.8	1.051	18.504	31.6	109.4	---	---	-3.42	0.855	146.7	196.8	-2.2	0.739
4-2230	4-2410	0.546	328.5	-40.5	-10.57	1.359	73.2	0.889	8.336	35.7	117.2	---	---	-3.38	0.747	143.1	197.3	-2.4	0.630
4-2230	4-2430	0.515	323.7	-41.9	-10.35	1.314	72.7	0.780	4.154	39.7	125.0	---	---	-3.35	0.663	139.1	197.5	-2.7	0.542
4-2230	4-2450	0.495	319.5	-42.8	-10.13	1.281	72.2	0.706	3.063	43.4	132.4	---	---	-3.34	0.596	134.8	197.5	-3.0	0.470
4-2230	4-2470	0.481	316.1	-43.2	-9.91	1.257	71.9	0.654	2.576	46.5	139.3	---	---	-3.34	0.544	130.2	197.2	-3.4	0.410
4-2230	4-2490	0.470	313.4	-43.4	-9.68	1.239	71.7	0.617	2.308	49.0	145.7	---	---	-3.36	0.503	125.4	196.6	-3.8	0.361
4-2230	4-2510	0.462	311.4	-43.4	-9.45	1.225	71.5	0.591	2.144	50.9	151.5	---	---	-3.40	0.472	120.4	195.6	-4.3	0.320
4-2230	4-2530	0.454	310.1	-43.2	-9.21	1.215	71.5	0.572	2.039	52.3	156.7	---	---	-3.45	0.449	115.5	194.2	-4.9	0.285
4-2230	4-2550	0.447	309.2	-42.9	-8.96	1.208	71.5	0.557	1.968	53.2	161.5	---	---	-3.52	0.432	110.6	192.3	-5.5	0.257
4-2230	4-2570	0.440	308.8	-42.6	-8.70	1.203	71.6	0.546	1.920	53.6	165.9	---	---	-3.61	0.421	105.8	190.0	-6.3	0.234
4-2230	4-2590	0.433	308.7	-42.1	-8.42	1.199	71.8	0.538	1.887	53.6	169.9	---	---	-3.73	0.414	101.4	187.4	-7.0	0.216
4-2230	4-2610	0.425	309.0	-41.6	-8.12	1.196	72.1	0.531	1.866	53.2	173.5	---	---	-3.87	0.411	97.2	184.5	-7.8	0.203
4-2230	4-2630	0.417	309.5	-41.0	-7.78	1.195	72.5	0.525	1.853	52.6	177.0	---	---	-4.05	0.411	93.4	181.4	-8.6	0.193
4-2230	4-2650	0.408	310.3	-40.2	-7.41	1.194	72.9	0.521	1.846	51.6	180.1	---	2.807	-4.27	0.413	89.9	178.5	-9.5	0.187
4-2230	4-2670	0.399	311.3	-39.2	-6.99	1.194	73.3	0.517	1.844	50.4	183.1	---	2.796	-4.55	0.417	86.7	175.7	-10.4	0.183
4-2230	4-2690	0.389	312.4	-38.0	-6.50	1.194	73.8	0.513	1.845	49.0	185.9	---	2.792	-4.89	0.422	83.9	173.3	-11.3	0.183
4-2230	4-2710	0.377	313.7	-36.5	-5.92	1.194	74.4	0.510	1.849	47.4	188.5	---	2.792	-5.33	0.429	81.3	171.5	-12.3	0.184

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2230	4-2730	0.366	315.0	-34.5	-5.22	1.195	75.0	0.508	1.856	45.6	191.1	---	2.797	-5.89	0.436	79.0	170.1	-13.5	0.188
4-2230	4-2750	0.353	316.2	-31.7	-4.33	1.196	75.7	0.505	1.864	43.7	193.4	---	2.805	-6.64	0.443	77.0	169.4	-15.0	0.194
4-2230	4-2770	0.339	317.3	-27.8	-3.16	1.197	76.4	0.503	1.874	41.6	195.7	---	2.816	-7.68	0.451	75.2	169.2	-16.8	0.201
4-2230	4-2790	0.326	317.9	-21.9	-1.52	1.199	77.1	0.501	1.885	39.4	197.9	---	2.830	-9.17	0.459	73.6	169.7	-19.4	0.212
4-2230	4-2810	0.315	317.5	-12.7	0.94	1.200	77.9	0.500	1.897	37.0	200.0	---	2.845	-11.50	0.467	72.1	170.8	-23.0	0.226
4-2230	4-2830	0.320	314.6	2.9	5.13	1.201	78.6	0.499	1.910	34.6	202.0	---	2.863	-15.56	0.475	70.8	173.0	-28.5	0.252
4-2230	4-2850	0.394	304.5	27.7	13.84	1.203	79.4	0.498	1.923	32.2	204.0	---	2.882	-24.13	0.483	69.6	177.6	-36.8	0.309
4-2230	4-2870	0.789	265.8	50.6	39.70	1.205	80.0	0.499	1.938	30.2	205.9	---	2.904	-49.85	0.491	68.4	190.4	-43.9	0.503
4-2230	4-2890	1.280	158.6	-62.4	-70.56	1.206	82.3	0.494	1.952	23.6	207.4	---	2.916	60.54	0.499	68.0	197.7	43.0	0.590
4-2230	4-2910	0.731	89.2	-78.5	-36.65	1.208	82.8	0.495	1.967	21.7	209.2	---	2.941	26.77	0.506	67.0	185.9	37.5	0.344
4-2230	4-2930	0.554	42.7	-73.5	-26.13	1.209	83.8	0.496	1.982	18.8	210.8	---	2.966	16.39	0.513	66.1	184.3	27.3	0.289
4-2230	4-2950	0.474	31.9	-67.3	-21.36	1.211	84.8	0.497	1.998	15.7	212.3	---	2.992	11.76	0.520	65.4	185.7	20.4	0.276
4-2240	4-2400	0.650	327.2	-37.3	-11.17	1.392	67.7	0.97332.577		45.3	115.6	---	---	-5.27	0.804	146.6	196.0	-3.3	0.703
4-2240	4-2420	0.608	322.7	-38.4	-10.82	1.335	67.4	0.841	5.366	49.8	123.8	---	---	-5.16	0.702	142.7	196.1	-3.7	0.599
4-2240	4-2440	0.580	319.0	-38.9	-10.47	1.294	67.2	0.754	3.403	53.8	131.5	---	---	-5.07	0.622	138.4	196.0	-4.1	0.516
4-2240	4-2460	0.560	316.0	-39.2	-10.13	1.264	67.0	0.695	2.705	57.2	138.7	---	---	-5.01	0.560	133.8	195.7	-4.5	0.448
4-2240	4-2480	0.545	313.6	-39.2	-9.79	1.242	66.9	0.654	2.359	59.9	145.3	---	---	-4.97	0.511	128.9	195.0	-5.0	0.392
4-2240	4-2500	0.533	312.0	-39.0	-9.46	1.226	66.9	0.625	2.160	62.0	151.2	---	---	-4.96	0.474	123.7	193.9	-5.6	0.346
4-2240	4-2520	0.523	310.8	-38.7	-9.13	1.215	67.0	0.604	2.035	63.4	156.4	---	---	-4.96	0.446	118.4	192.4	-6.3	0.308
4-2240	4-2540	0.514	310.1	-38.3	-8.78	1.206	67.1	0.589	1.954	64.3	161.2	---	---	-4.99	0.426	113.2	190.5	-7.1	0.278
4-2240	4-2560	0.505	309.7	-37.9	-8.43	1.200	67.3	0.577	1.900	64.6	165.5	---	---	-5.05	0.413	108.1	188.3	-7.8	0.253
4-2240	4-2580	0.496	309.7	-37.3	-8.07	1.196	67.6	0.567	1.864	64.6	169.4	---	---	-5.13	0.404	103.2	185.7	-8.7	0.233
4-2240	4-2600	0.487	310.0	-36.7	-7.69	1.193	68.0	0.560	1.841	64.2	173.0	---	---	-5.24	0.400	98.7	182.9	-9.5	0.218
4-2240	4-2620	0.477	310.4	-36.0	-7.29	1.192	68.4	0.553	1.826	63.5	176.4	---	---	-5.38	0.399	94.5	179.9	-10.4	0.207
4-2240	4-2640	0.467	311.1	-35.2	-6.86	1.191	68.8	0.547	1.819	62.5	179.4	---	---	-5.56	0.401	90.7	177.1	-11.2	0.200
4-2240	4-2660	0.457	311.9	-34.3	-6.39	1.190	69.3	0.542	1.817	61.2	182.3	---	2.802	-5.79	0.405	87.2	174.5	-12.0	0.196
4-2240	4-2680	0.445	312.8	-33.1	-5.87	1.191	69.9	0.538	1.818	59.8	185.1	---	2.797	-6.08	0.410	84.2	172.2	-12.8	0.195
4-2240	4-2700	0.434	313.8	-31.8	-5.29	1.191	70.5	0.534	1.823	58.1	187.6	---	2.796	-6.43	0.417	81.4	170.4	-13.7	0.196
4-2240	4-2720	0.421	314.9	-30.1	-4.62	1.192	71.2	0.530	1.830	56.3	190.1	---	2.801	-6.87	0.424	79.0	169.1	-14.5	0.199
4-2240	4-2740	0.409	316.0	-28.0	-3.85	1.193	71.9	0.527	1.839	54.3	192.4	---	2.808	-7.43	0.433	76.9	168.4	-15.6	0.203
4-2240	4-2760	0.395	317.0	-25.3	-2.92	1.194	72.6	0.524	1.850	52.2	194.7	---	2.819	-8.14	0.441	75.0	168.2	-16.8	0.209
4-2240	4-2780	0.382	317.9	-21.8	-1.77	1.196	73.4	0.521	1.862	50.0	196.8	---	2.832	-9.08	0.450	73.3	168.6	-18.2	0.217
4-2240	4-2800	0.369	318.5	-17.0	-0.30	1.197	74.2	0.518	1.875	47.6	198.9	---	2.846	-10.35	0.458	71.8	169.5	-20.2	0.227
4-2240	4-2820	0.359	318.5	-10.3	1.68	1.199	75.0	0.516	1.889	45.2	200.9	---	2.863	-12.12	0.467	70.5	171.0	-22.7	0.240
4-2240	4-2840	0.357	317.4	-0.8	4.52	1.201	75.8	0.514	1.903	42.6	202.8	---	2.881	-14.75	0.475	69.3	173.1	-26.1	0.258
4-2240	4-2860	0.375	313.7	13.0	8.98	1.203	76.7	0.512	1.918	40.0	204.6	---	2.901	-19.00	0.484	68.2	176.3	-30.8	0.286
4-2240	4-2880	0.454	304.0	31.0	16.96	1.204	77.5	0.511	1.934	37.5	206.4	---	2.922	-26.78	0.492	67.3	181.5	-36.9	0.340
4-2240	4-2900	0.711	278.4	46.6	34.34	1.206	78.2	0.511	1.950	35.3	208.1	---	2.946	-43.96	0.500	66.3	191.8	-42.6	0.469
4-2240	4-2940	1.079	150.4	-73.5	-57.47	1.210	81.9	0.503	1.983	24.5	211.2	---	2.979	48.27	0.515	65.5	200.7	43.0	0.512
4-2240	4-2960	0.744	80.3	-78.7	-37.23	1.211	82.6	0.504	1.999	22.1	212.7	---	3.007	28.24	0.521	64.7	193.9	36.7	0.373
4-2250	4-2430	0.687	319.8	-35.7	-11.26	1.310	61.4	0.811	3.981	64.9	131.4	---	---	-7.02	0.655	142.6	194.2	-4.9	0.572
4-2250	4-2450	0.658	317.2	-35.8	-10.77	1.274	61.5	0.743	2.889	68.5	138.8	---	---	-6.84	0.579	138.0	193.8	-5.4	0.494
4-2250	4-2470	0.637	315.2	-35.7	-10.30	1.247	61.6	0.698	2.423	71.4	145.5	---	---	-6.70	0.521	133.0	193.0	-5.9	0.430
4-2250	4-2490	0.620	313.7	-35.5	-9.84	1.228	61.7	0.667	2.175	73.5	151.4	---	---	-6.59	0.476	127.6	191.8	-6.6	0.378
4-2250	4-2510	0.606	312.8	-35.1	-9.39	1.215	62.0	0.644	2.027	74.9	156.6	---	---	-6.51	0.443	122.0	190.3	-7.3	0.336
4-2250	4-2530	0.594	312.2	-34.7	-8.95	1.205	62.2	0.627	1.934	75.7	161.3	---	---	-6.46	0.418	116.4	188.4	-8.0	0.302
4-2250	4-2550	0.582	312.0	-34.1	-8.51	1.198	62.6	0.614	1.873	76.0	165.5	---	---	-6.44	0.401	110.8	186.1	-8.8	0.275
4-2250	4-2570	0.571	312.0	-33.6	-8.06	1.193	63.0	0.604	1.834	75.9	169.3	---	---	-6.45	0.391	105.4	183.6	-9.6	0.253
4-2250	4-2590	0.560	312.3	-32.9	-7.61	1.190	63.4	0.595	1.809	75.4	172.8	---	---	-6.49	0.386	100.4	180.9	-10.4	0.237
4-2250	4-2610	0.548	312.7	-32.2	-7.14	1.188	63.9	0.587	1.794	74.5	175.9	---	---	-6.57	0.384	95.7	178.1	-11.2	0.225
4-2250	4-2630	0.537	313.3	-31.4	-6.66	1.187	64.5	0.580	1.786	73.4	178.9	---	---	-6.68	0.386	91.5	175.4	-12.0	0.216
4-2250	4-2650	0.525	314.0	-30.5	-6.15	1.187	65.1	0.574	1.784	72.1	181.7	---	2.809	-6.83	0.390	87.7	172.9	-12.7	0.211
4-2250	4-2670	0.512	314.8	-29.5	-5.61	1.187	65.7	0.569	1.786	70.6	184.3	---	2.802	-7.03	0.396	84.4	170.8	-13.3	0.209
4-2250	4-2690	0.500	315.7	-28.3	-5.02	1.188	66.4	0.564	1.792	68.9	186.8	---	2.801	-7.29	0.403	81.4	169.1	-14.0	0.209
4-2250	4-2710	0.487	316.7	-26.9	-4.38	1.189	67.1	0.559	1.800	67.0	189.2	---	2.805	-7.61	0.411	78.8	167.9	-14.6	0.211
4-2250	4-2730	0.473	317.7	-25.3	-3.67	1.190	67.8	0.554	1.810	65.0	191.4	---	2.812	-8.01	0.420	76.5	167.2	-15.3	0.215
4-2250	4-2750	0.459	318.6	-23.3	-2.87	1.191	68.6	0.550	1.821	62.9	193.6	---	2.823	-8.51	0.429	74.5	167.1	-16.2	0.220
4-2250	4-2770	0.445	319.6	-20.8	-1.95	1.193	69.4	0.546	1.834	60.6	195.7	---	2.835	-9.14	0.438	72.7	167.4	-17.1	0.226
4-2250	4-2790	0.432	320.4	-17.8	-0.86	1.195	70.3	0.542	1.848	58.2	197.7	---	2.850	-9.94	0.447	71.2	168.2	-18.3	0.233
4-2250	4-2810	0.418	321.0	-13.9	0.47	1.197	71.2	0.538	1.863	55.7	199.7	---	2.866	-10.98	0.457	69.8	169.5	-19.7	0.242
4-2250	4-2830	0.407	321.2	-8.9	2.12	1.198	72.0	0.535	1.879	53.2	201.6	---	2.883	-12.36	0.466	68.6	171.3	-21.5	0.253
4-2250	4-2850	0.400	320.8	-2.3	4.29	1.200	73.0	0.532	1.895	50.5	203.4	---	2.902	-14.25	0.475	67.6	173.5	-23.9	0.267
4-2250	4-2870	0.402	319.1	6.6	7.28	1.202	73.9	0.529	1.912	47.8	205.2	---	2.922	-16.96	0.484	66.7	176.4	-27.0	0.286
4-2250	4-2890	0.426	315.1	18.2	11.69	1.204	74.8	0.526	1.929	45.0	206.9	---	2.944	-21.10	0.492	65.8	180.2	-31.0	0.314
4-2250	4-2910	0.499	306.2	31.9	18.87	1.206	75.7	0.525	1.946	42.3	208.5	---	2.967	-28.01	0.501	65.1	185.7	-36.0	0.362
4-2250	4-2930	0.688	286.9	43.7	32.17	1.208	76.5	0.524	1.963	39.9	210.1	---	2.992	-41.03	0.508	64.3	194.7	-40.9	0.459
4-2260	4-2420	0.819	321.5	-33.0	-12.68	1.334	54.7	0.876	5.260	76.7	131.9	---	---	-9.44	0.699	147.6	192.1	-5.5	0.645
4-2260	4-2440	0.777	319.2	-33.0	-11.95	1.287	55.1	0.800	3.193	80.5	139.6	---	---	-9.05	0.606	143.0	191.6	-6.0	0.552
4-2260	4-2460	0.746	317.5	-32.8	-11.28	1.254	55.5	0.750	2.520	83.5	146.3	---	---	-8.72	0.535	137.9	190.7	-6.5	0.478
4-2260	4-2480	0.722	316.3	-32.5	-10.65	1.231	55.9	0.716	2.200	85.5	152.1	---	---	-8.45	0.480	132.4	189.5	-7.2	0.419
4-2260	4-2500	0.703	315.5	-32.1	-10.05	1.215	56.4	0.692	2.020	86.8	157.2	---	---	-8.23	0.439	126.5	187.9	-7.8	0.371
4-2260	4-2520	0.686	315.1	-31.6	-9.47	1.203	56.8	0.673	1.911	87.5	161.7	---	---	-8.05	0.409	120.4	186.0	-8.6	0.332
4-2260	4-2540	0.670	315.0	-31.1	-8.91	1.195	57.3	0.659	1.842	87.6	165.7	---	---	-7.92	0.388	114.2	183.7	-9.3	0.302
4-2260	4-2560	0.656	315.1	-30.5	-8.36	1.189	57.9	0.647	1.798	87.4	169.3	---	---	-7.82	0.375	108.2	181.3	-10.1	0.278
4-2260	4-2580	0.642	315.4	-29.8	-7.82	1.186	58.5	0.637	1.771	86.7	172.6	---	---	-7.77	0.368	102.5	178.6	-10.8	0.259
4-2260	4-2600	0.629	315.9	-29.1	-7.28	1.183	59.1	0.628	1.755	85.7	175.7	---	---	-7.75	0.365	97.2	176.0	-11.5	0.245
4-2260	4-2620	0.615	316.4	-28.4	-6.73	1.182	59.8	0.620	1.747	84.5	178.5	---	---	-7.77	0.367	92.5	173.4	-12.1	0.236
4-2260	4-2640	0.601	317.1	-27.5	-6.17	1.182	60.5	0.613	1.746	83.1	181.1	---	2.815	-7.82	0.371	88.2	171.1	-12.7	0.230
4-2260	4-2660	0.588	317.9	-26.6	-5.59	1.183	61.2	0.606	1.748	81.5	183.6	---	2.808	-7.93	0.377	84.5	169.1	-13.2	0.227
4-2260	4-2680	0.574	318.7	-25.5	-4.99	1.183	62.0	0.600	1.755	79.7	186.0	---	2.807	-8.07	0.385	81.2	167.6	-13.7	0.226

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2260	4-2700	0.559	319.6	-24.3	-4.35	1.185	62.8	0.593	1.764	77.8	188.2	---	2.810	-8.27	0.394	78.4	166.5	-14.2	0.227
4-2260	4-2720	0.545	320.5	-23.0	-3.67	1.186	63.6	0.587	1.775	75.7	190.4	---	2.817	-8.53	0.404	75.9	165.9	-14.7	0.229
4-2260	4-2740	0.530	321.4	-21.4	-2.94	1.188	64.4	0.582	1.788	73.5	192.5	---	2.827	-8.87	0.414	73.7	165.8	-15.2	0.233
4-2260	4-2760	0.515	322.3	-19.6	-2.13	1.190	65.3	0.576	1.802	71.2	194.5	---	2.840	-9.29	0.424	71.9	166.2	-15.9	0.238
4-2260	4-2780	0.500	323.2	-17.4	-1.22	1.192	66.2	0.571	1.817	68.8	196.5	---	2.854	-9.81	0.434	70.3	167.0	-16.6	0.244
4-2260	4-2800	0.485	324.0	-14.8	-0.19	1.194	67.1	0.566	1.833	66.3	198.4	---	2.870	-10.48	0.445	68.9	168.2	-17.5	0.250
4-2260	4-2820	0.471	324.6	-11.6	1.01	1.196	68.1	0.561	1.850	63.7	200.3	---	2.888	-11.32	0.455	67.7	169.8	-18.6	0.258
4-2260	4-2840	0.458	325.0	-7.7	2.44	1.198	69.0	0.556	1.867	61.0	202.1	---	2.906	-12.40	0.465	66.6	171.8	-20.0	0.268
4-2260	4-2860	0.448	324.9	-2.7	4.21	1.200	70.0	0.552	1.885	58.2	203.8	---	2.926	-13.81	0.474	65.7	174.1	-21.8	0.279
4-2260	4-2880	0.442	324.2	3.5	6.45	1.202	71.0	0.548	1.903	55.4	205.5	---	2.947	-15.72	0.483	64.9	177.0	-23.9	0.292
4-2260	4-2900	0.447	322.2	11.4	9.45	1.204	72.0	0.545	1.922	52.5	207.2	---	2.968	-18.38	0.492	64.2	180.3	-26.7	0.311
4-2260	4-2920	0.471	318.2	21.2	13.69	1.206	73.0	0.541	1.940	49.6	208.8	---	2.991	-22.28	0.501	63.6	184.5	-30.3	0.337
4-2260	4-2940	0.536	310.1	32.2	20.14	1.208	74.0	0.539	1.959	46.8	210.3	---	3.015	-28.40	0.509	63.0	190.1	-34.6	0.380
4-2260	4-2960	0.682	296.5	41.7	30.94	1.210	74.9	0.538	1.978	44.2	211.8	---	3.041	-38.87	0.516	62.5	198.2	-39.0	0.456
4-2260	4-2980	0.989	270.0	43.1	50.65	1.212	75.5	0.538	1.997	42.3	213.2	---	3.071	-58.25	0.523	61.8	210.6	-40.6	0.603
4-2270	4-2430	0.920	321.8	-30.6	-13.98	1.308	47.8	0.865	3.826	93.2	141.0	---	---	-11.98	0.647	148.9	189.2	-6.3	0.629
4-2270	4-2450	0.875	320.3	-30.3	-12.98	1.266	48.6	0.810	2.696	96.1	147.6	---	---	-11.33	0.558	143.9	188.3	-6.9	0.540
4-2270	4-2470	0.841	319.3	-30.0	-12.07	1.236	49.4	0.773	2.249	98.0	153.3	---	---	-10.78	0.489	138.3	187.0	-7.4	0.470
4-2270	4-2490	0.813	318.7	-29.5	-11.23	1.216	50.1	0.747	2.021	99.1	158.2	---	---	-10.33	0.438	132.2	185.4	-8.1	0.414
4-2270	4-2510	0.790	318.5	-29.0	-10.45	1.202	50.8	0.727	1.890	99.6	162.4	---	---	-9.95	0.400	125.6	183.5	-8.7	0.370
4-2270	4-2530	0.770	318.5	-28.4	-9.72	1.192	51.5	0.711	1.810	99.5	166.2	---	---	-9.64	0.373	118.7	181.3	-9.4	0.335
4-2270	4-2550	0.752	318.7	-27.8	-9.02	1.185	52.3	0.698	1.760	99.0	169.6	---	---	-9.38	0.356	111.9	178.9	-10.1	0.308
4-2270	4-2570	0.735	319.0	-27.2	-8.35	1.181	53.0	0.686	1.730	98.1	172.6	---	---	-9.18	0.346	105.4	176.4	-10.7	0.287
4-2270	4-2590	0.718	319.5	-26.5	-7.70	1.179	53.8	0.676	1.712	97.0	175.5	---	---	-9.03	0.343	99.3	173.9	-11.3	0.271
4-2270	4-2610	0.702	320.1	-25.7	-7.06	1.177	54.6	0.667	1.704	95.7	178.1	---	---	-8.92	0.344	93.8	171.5	-11.8	0.260
4-2270	4-2630	0.686	320.8	-24.9	-6.43	1.177	55.5	0.658	1.703	94.1	180.6	---	2.822	-8.86	0.348	88.9	169.3	-12.3	0.252
4-2270	4-2650	0.670	321.6	-24.0	-5.79	1.178	56.3	0.649	1.706	92.4	182.9	---	2.814	-8.85	0.355	84.7	167.5	-12.7	0.248
4-2270	4-2670	0.654	322.4	-23.1	-5.15	1.179	57.2	0.641	1.713	90.5	185.1	---	2.812	-8.88	0.364	81.0	166.1	-13.1	0.245
4-2270	4-2690	0.639	323.2	-22.0	-4.49	1.180	58.1	0.634	1.723	88.5	187.3	---	2.815	-8.95	0.374	77.8	165.2	-13.4	0.245
4-2270	4-2710	0.622	324.1	-20.8	-3.81	1.182	59.0	0.626	1.735	86.3	189.4	---	2.822	-9.08	0.385	75.1	164.7	-13.8	0.247
4-2270	4-2730	0.606	325.0	-19.5	-3.10	1.184	59.9	0.619	1.749	84.1	191.4	---	2.832	-9.27	0.396	72.7	164.6	-14.1	0.249
4-2270	4-2750	0.590	325.9	-18.0	-2.34	1.186	60.9	0.612	1.765	81.7	193.3	---	2.845	-9.52	0.408	70.8	165.0	-14.6	0.253
4-2270	4-2770	0.574	326.7	-16.3	-1.53	1.188	61.9	0.605	1.781	79.2	195.2	---	2.859	-9.85	0.419	69.1	165.8	-15.1	0.258
4-2270	4-2790	0.557	327.6	-14.4	-0.65	1.190	62.9	0.599	1.798	76.7	197.1	---	2.876	-10.27	0.430	67.6	166.9	-15.7	0.263
4-2270	4-2810	0.541	328.3	-12.1	0.33	1.193	63.9	0.593	1.817	74.1	198.9	---	2.893	-10.79	0.441	66.4	168.5	-16.4	0.269
4-2270	4-2830	0.526	329.0	-9.5	1.44	1.195	64.9	0.587	1.835	71.4	200.6	---	2.912	-11.46	0.452	65.4	170.3	-17.2	0.276
4-2270	4-2850	0.511	329.4	-6.3	2.71	1.197	66.0	0.581	1.854	68.6	202.4	---	2.931	-12.30	0.463	64.5	172.5	-18.3	0.283
4-2270	4-2870	0.498	329.6	-2.4	4.20	1.200	67.0	0.575	1.874	65.7	204.1	---	2.952	-13.38	0.473	63.7	175.0	-19.6	0.292
4-2270	4-2890	0.488	329.4	2.3	6.01	1.202	68.1	0.570	1.893	62.8	205.7	---	2.973	-14.78	0.483	63.1	177.9	-21.2	0.303
4-2270	4-2910	0.484	328.5	8.0	8.26	1.204	69.2	0.565	1.913	59.8	207.3	---	2.995	-16.63	0.492	62.5	181.1	-23.3	0.316
4-2270	4-2930	0.489	326.4	15.1	11.19	1.207	70.3	0.561	1.933	56.8	208.8	---	3.018	-19.16	0.500	62.0	184.8	-25.8	0.333
4-2270	4-2950	0.511	322.5	23.4	15.19	1.209	71.3	0.557	1.954	53.7	210.3	---	3.042	-22.77	0.509	61.6	189.2	-29.0	0.357
4-2270	4-2970	0.566	315.1	32.5	20.98	1.211	72.4	0.554	1.974	50.8	211.8	---	3.067	-28.17	0.516	61.2	194.7	-32.9	0.394
4-2270	4-2990	0.683	302.1	40.4	30.03	1.213	73.3	0.551	1.994	48.0	213.1	---	3.093	-36.84	0.524	60.8	202.2	-37.0	0.455
4-2280	4-2440	1.028	323.3	-28.2	-15.91	1.285	40.7	0.875	3.077	109.2	149.6	---	---	-15.08	0.597	151.0	185.8	-6.9	0.622
4-2280	4-2460	0.979	322.5	-27.7	-14.49	1.246	41.9	0.836	2.361	110.9	154.9	---	---	-14.03	0.509	145.6	184.6	-7.5	0.537
4-2280	4-2480	0.940	322.1	-27.2	-13.24	1.220	43.0	0.808	2.046	111.7	159.5	---	---	-13.15	0.443	139.4	183.0	-8.0	0.470
4-2280	4-2500	0.909	322.0	-26.7	-12.12	1.202	44.1	0.787	1.878	111.9	163.4	---	---	-12.43	0.394	132.5	181.1	-8.6	0.418
4-2280	4-2520	0.882	322.2	-26.1	-11.10	1.190	45.1	0.769	1.781	111.5	166.8	---	---	-11.82	0.359	125.0	179.0	-9.2	0.377
4-2280	4-2540	0.858	322.5	-25.4	-10.17	1.182	46.1	0.755	1.722	110.7	169.9	---	---	-11.32	0.336	117.2	176.6	-9.8	0.345
4-2280	4-2560	0.837	322.9	-24.8	-9.30	1.176	47.1	0.742	1.687	109.7	172.7	---	---	-10.90	0.322	109.6	174.3	-10.3	0.321
4-2280	4-2580	0.816	323.5	-24.0	-8.48	1.173	48.0	0.730	1.667	108.3	175.3	---	---	-10.55	0.316	102.4	171.9	-10.8	0.302
4-2280	4-2600	0.797	324.1	-23.3	-7.70	1.172	49.0	0.719	1.658	106.8	177.7	---	---	-10.27	0.316	95.8	169.7	-11.2	0.289
4-2280	4-2620	0.778	324.8	-22.5	-6.95	1.172	50.0	0.708	1.656	105.1	180.0	---	---	-10.05	0.321	90.0	167.7	-11.6	0.279
4-2280	4-2640	0.760	325.6	-21.7	-6.22	1.172	51.0	0.698	1.660	103.2	182.2	---	2.819	-9.89	0.329	85.0	166.1	-11.9	0.273
4-2280	4-2660	0.742	326.4	-20.8	-5.51	1.174	52.0	0.689	1.668	101.2	184.3	---	2.817	-9.77	0.339	80.7	164.8	-12.2	0.269
4-2280	4-2680	0.724	327.3	-19.8	-4.79	1.175	53.1	0.680	1.678	99.1	186.3	---	2.819	-9.71	0.350	77.1	163.9	-12.4	0.268
4-2280	4-2700	0.706	328.1	-18.7	-4.08	1.177	54.1	0.671	1.692	96.9	188.2	---	2.826	-9.70	0.362	74.1	163.5	-12.7	0.268
4-2280	4-2720	0.689	329.0	-17.6	-3.35	1.179	55.1	0.662	1.707	94.6	190.1	---	2.837	-9.75	0.375	71.5	163.5	-12.9	0.269
4-2280	4-2740	0.671	329.9	-16.3	-2.61	1.182	56.2	0.654	1.723	92.1	192.0	---	2.850	-9.85	0.388	69.4	163.9	-13.2	0.272
4-2280	4-2760	0.653	330.8	-14.9	-1.83	1.184	57.3	0.645	1.741	89.6	193.8	---	2.865	-10.01	0.401	67.6	164.7	-13.5	0.275
4-2280	4-2780	0.635	331.6	-13.4	-1.02	1.187	58.4	0.637	1.760	87.1	195.6	---	2.881	-10.24	0.413	66.1	165.8	-13.9	0.279
4-2280	4-2800	0.617	332.5	-11.6	-0.15	1.189	59.4	0.630	1.779	84.4	197.4	---	2.899	-10.55	0.426	64.8	167.3	-14.4	0.284
4-2280	4-2820	0.600	333.2	-9.6	0.78	1.192	60.6	0.622	1.799	81.7	199.1	---	2.918	-10.94	0.438	63.7	169.1	-15.0	0.289
4-2280	4-2840	0.583	333.9	-7.3	1.81	1.195	61.7	0.615	1.819	78.8	200.8	---	2.938	-11.45	0.449	62.9	171.2	-15.6	0.295
4-2280	4-2860	0.567	334.4	-4.6	2.95	1.197	62.8	0.608	1.840	76.0	202.4	---	2.958	-12.10	0.460	62.1	173.5	-16.5	0.301
4-2280	4-2880	0.551	334.8	-1.5	4.25	1.200	64.0	0.601	1.861	73.0	204.1	---	2.979	-12.91	0.471	61.5	176.1	-17.5	0.308
4-2280	4-2900	0.538	334.9	2.2	5.77	1.202	65.1	0.594	1.882	70.0	205.7	---	3.001	-13.95	0.481	61.0	179.0	-18.7	0.316
4-2280	4-2920	0.528	334.5	6.6	7.57	1.205	66.3	0.588	1.904	66.9	207.2	---	3.023	-15.29	0.491	60.6	182.2	-20.2	0.326
4-2280	4-2940	0.523	333.5	11.8	9.77	1.207	67.4	0.582	1.925	63.8	208.7	---	3.046	-17.05	0.500	60.2	185.7	-22.1	0.338
4-2280	4-2960	0.527	331.5	18.1	12.58	1.210	68.6	0.577	1.947	60.7	210.2	---	3.070	-19.41	0.508	59.9	189.6	-24.5	0.353
4-2280	4-2980	0.546	327.7	25.3	16.29	1.212	69.7	0.573	1.968	57.5	211.6	---	3.095	-22.68	0.516	59.7	194.1	-27.4	0.374
4-2280	4-3000	0.592	321.1	33.0	21.48	1.214	70.8	0.568	1.989	54.4	212.9	---	3.120	-27.44	0.524	59.4	199.5	-30.9	0.405
4-2290	4-2450	1.140	325.8	-25.8	-18.85	1.265	33.5	0.900	2.634	124.2	157.2	---	---	-19.15	0.550	154.0	182.3	-7.2	0.626
4-2290	4-2470	1.086	325.6	-25.2	-16.76	1.229	35.1	0.872	2.129	124.6	161.2	---	---	-17.43	0.463	148.2	180.8	-7.7	0.544
4-2290	4-2490	1.043	325.7	-24.6	-14.98	1.205	36.5	0.850	1.893	124.4	164.7	---	---	-16.03	0.398	141.3	178.9	-8.2	0.480
4-2290	4-2510	1.007	326.0	-23.9	-13.44	1.189	37.9	0.832	1.765	123.7	167.7	---	---	-14.89	0.350	133.5	176.9	-8.7	0.431
4-2290	4-2530	0.976	326.4	-23.3	-12.09	1.179	39.2	0.816	1.691	122.6	170.4	---	---	-13.95	0.317	124.9	174.7	-9.2	0.393
4-2290	4-2550	0.949	326.9	-22.5	-10.88	1.172	40.5	0.801	1.648	121.3	172.9	---	---	-13.17	0.297	115.9	172.5	-9.6	0.363
4-2290	4-2570	0.924	327.6	-21.8	-9.78	1.168	41.7	0.788	1.623	119.7	175.2	---	---	-12.52	0.287	107.2	170.3	-10.0	0.341

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

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ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2600	4-2820	0.511	68.9	27.3	2.10	1.328	108.9	0.818	4.930	317.8	478.5	0.898	---	-12.57	0.738	139.7	277.6	-9.4	0.633
4-2600	4-2840	0.465	66.2	37.9	6.00	1.290	106.9	0.722	3.289	319.3	484.5	0.914	---	-16.30	0.669	135.2	278.2	-13.7	0.559
4-2600	4-2860	0.476	62.7	57.4	13.18	1.261	105.2	0.650	2.648	321.0	490.5	0.927	---	-23.31	0.615	130.5	276.9	-21.0	0.515
4-2600	4-2880	0.671	107.9	87.0	29.98	1.239	103.6	0.594	2.315	323.0	496.5	0.940	---	-39.94	0.572	125.7	269.4	-32.9	0.549
4-2600	4-2920	0.997	119.1	-50.5	-51.71	1.211	102.8	0.527	1.993	322.2	508.3	0.943	---	42.09	0.514	116.6	267.1	38.0	0.501
4-2600	4-2940	0.691	97.1	-45.8	-33.26	1.201	102.0	0.502	1.910	323.6	513.9	0.950	---	23.82	0.496	112.0	274.8	31.3	0.358
4-2600	4-2960	0.563	88.1	-40.4	-25.58	1.195	101.5	0.485	1.853	324.3	519.1	0.954	---	16.32	0.482	107.5	275.7	26.2	0.293
4-2600	4-2980	0.496	83.5	-36.2	-21.48	1.190	101.2	0.473	1.813	324.5	524.1	0.956	---	12.39	0.472	103.4	274.2	22.8	0.254
4-2600	4-3000	0.457	80.9	-32.7	-18.93	1.186	101.1	0.465	1.787	324.4	528.7	0.956	---	10.02	0.466	99.5	271.5	20.5	0.229
4-2600	4-3020	0.432	79.5	-29.7	-17.17	1.184	101.2	0.460	1.770	323.8	533.1	0.955	---	8.45	0.462	95.8	268.0	18.6	0.212
4-2600	4-3040	0.416	78.7	-26.9	-15.87	1.183	101.4	0.459	1.759	322.9	537.1	0.952	---	7.35	0.460	92.5	264.2	16.9	0.202
4-2600	4-3060	0.406	78.5	-24.1	-14.86	1.182	101.8	0.460	1.754	321.7	540.8	0.948	2.561	6.54	0.459	89.3	260.5	15.3	0.198
4-2600	4-3080	0.401	78.7	-21.5	-14.05	1.182	102.3	0.463	1.753	320.1	544.2	0.942	2.564	5.93	0.460	86.4	257.4	13.7	0.199
4-2600	4-3100	0.400	79.2	-18.8	-13.36	1.182	103.0	0.468	1.755	318.3	547.3	0.935	2.576	5.46	0.461	83.7	255.0	12.3	0.204
4-2600	4-3120	0.403	80.1	-16.1	-12.78	1.183	103.8	0.474	1.760	316.1	550.2	0.925	2.594	5.09	0.462	81.1	253.4	11.0	0.212
4-2600	4-3140	0.409	81.1	-13.4	-12.26	1.184	104.7	0.482	1.767	313.7	552.7	0.915	2.619	4.81	0.464	78.7	252.8	9.9	0.222
4-2600	4-3160	0.417	82.4	-10.8	-11.80	1.185	105.7	0.492	1.775	311.1	555.0	0.902	2.648	4.59	0.466	76.3	252.8	8.9	0.234
4-2600	4-3180	0.429	83.9	-8.2	-11.37	1.186	106.8	0.503	1.785	308.2	557.1	0.887	2.683	4.42	0.468	74.1	253.6	8.1	0.247
4-2600	4-3200	0.444	85.6	-5.6	-10.98	1.188	108.0	0.516	1.796	305.1	558.9	0.870	2.722	4.29	0.469	71.9	255.0	7.3	0.261
4-2600	4-3220	0.461	87.2	-3.2	-10.60	1.189	109.4	0.530	1.808	301.8	560.6	0.850	2.766	4.20	0.471	69.7	256.9	6.7	0.276
4-2600	4-3240	0.481	89.0	-0.8	-10.24	1.191	110.9	0.545	1.821	298.3	561.9	0.828	2.814	4.15	0.472	67.6	259.3	6.2	0.292
4-2600	4-3260	0.504	91.0	1.4	-9.89	1.193	112.5	0.562	1.835	294.6	563.1	0.803	2.866	4.12	0.474	65.4	262.0	5.8	0.309
4-2600	4-3280	0.530	93.0	3.5	-9.54	1.194	114.3	0.581	1.849	290.7	564.0	0.775	2.923	4.13	0.475	63.3	265.0	5.4	0.326
4-2600	4-3300	0.559	95.1	5.5	-9.20	1.196	116.1	0.600	1.864	286.7	564.8	0.745	2.983	4.16	0.476	61.1	268.3	5.0	0.344
4-2600	4-3320	0.591	97.3	7.3	-8.84	1.198	118.1	0.622	1.879	282.5	565.3	0.711	3.048	4.23	0.477	58.8	271.8	4.8	0.363
4-2600	4-3340	0.625	99.6	9.0	-8.48	1.200	120.3	0.644	1.895	278.1	565.6	0.675	3.116	4.32	0.478	56.4	275.5	4.5	0.382
4-2600	4-3360	0.663	101.9	10.5	-8.10	1.202	122.6	0.668	1.912	273.6	565.7	0.635	3.189	4.45	0.478	54.0	279.4	4.3	0.402
4-2600	4-3380	0.704	104.3	11.9	-7.71	1.204	125.1	0.693	1.929	268.9	565.6	0.592	3.265	4.61	0.479	51.4	283.5	4.1	0.422
4-2600	4-3400	0.748	106.8	13.2	-7.28	1.206	127.7	0.719	1.946	264.0	565.2	0.547	3.345	4.82	0.480	48.8	287.7	3.9	0.443
4-2600	4-3420	0.795	109.3	14.3	-6.81	1.207	130.5	0.746	1.964	259.0	564.7	0.499	3.429	5.08	0.480	46.0	292.1	3.8	0.465
4-2600	4-3440	0.844	111.9	15.3	-6.30	1.209	133.5	0.773	1.982	253.8	563.9	0.449	3.515	5.39	0.481	43.1	296.6	3.6	0.488
4-2600	4-3460	0.897	114.6	16.1	-5.72	1.211	136.6	0.801	2.001	248.4	562.9	0.398	3.604	5.78	0.481	40.0	301.2	3.5	0.511
4-2600	4-3480	0.952	117.3	16.9	-5.05	1.213	139.9	0.829	2.020	242.8	561.7	0.346	3.695	6.27	0.482	36.9	306.0	3.4	0.535
4-2600	4-3500	1.010	120.0	17.4	-4.27	1.215	143.3	0.856	2.040	237.2	560.3	0.293	3.787	6.88	0.482	33.6	310.9	3.3	0.560
4-2610	4-2790	0.617	75.6	20.7	-0.96	1.441	110.2	1.097	-9.299	321.4	465.9	0.900	---	-9.81	0.921	146.4	277.2	-6.0	0.824
4-2610	4-2810	0.527	74.0	24.0	0.53	1.373	107.8	0.923	11.928	322.8	471.8	0.917	---	-11.06	0.813	142.5	278.7	-7.7	0.708
4-2610	4-2830	0.460	71.8	29.3	2.49	1.323	105.7	0.796	4.575	324.5	477.9	0.933	---	-12.77	0.729	138.3	280.0	-10.1	0.614
4-2610	4-2850	0.416	68.8	38.0	5.20	1.286	103.8	0.702	3.173	326.2	484.1	0.946	---	-15.25	0.662	133.8	280.6	-13.5	0.539
4-2610	4-2870	0.402	64.8	51.3	9.25	1.258	102.3	0.631	2.594	328.0	490.4	0.957	---	-19.06	0.610	129.1	280.3	-18.6	0.485
4-2610	4-2890	0.446	58.7	70.2	15.95	1.237	100.9	0.578	2.288	329.9	496.6	0.966	---	-25.53	0.569	124.4	278.1	-26.1	0.460
4-2610	4-2910	0.620	247.0	86.5	28.85	1.222	99.7	0.537	2.105	332.0	502.8	0.975	---	-38.19	0.538	119.6	271.2	-35.8	0.494
4-2610	4-2970	0.900	118.5	-56.0	-46.86	1.195	99.5	0.475	1.855	330.2	519.4	0.973	---	38.25	0.484	106.8	268.1	41.6	0.432
4-2610	4-2990	0.677	100.6	-51.6	-33.65	1.191	99.1	0.463	1.818	331.0	524.4	0.976	---	25.28	0.475	102.7	271.6	37.6	0.324
4-2610	4-3010	0.563	92.0	-46.6	-26.82	1.188	98.9	0.455	1.794	331.1	529.1	0.977	---	18.70	0.469	98.9	271.0	33.5	0.269
4-2610	4-3030	0.497	87.4	-42.0	-22.71	1.185	99.0	0.451	1.778	330.7	533.4	0.976	---	14.84	0.466	95.4	268.5	29.9	0.238
4-2610	4-3050	0.455	84.9	-37.9	-19.96	1.184	99.2	0.450	1.769	329.8	537.4	0.974	---	12.35	0.464	92.2	265.3	26.8	0.220
4-2610	4-3070	0.428	83.6	-34.0	-17.97	1.184	99.6	0.450	1.765	328.6	541.0	0.970	2.559	10.63	0.464	89.2	262.0	23.9	0.211
4-2610	4-3090	0.411	83.2	-30.2	-16.45	1.184	100.1	0.453	1.765	327.0	544.4	0.965	2.564	9.38	0.464	86.4	259.2	21.3	0.208
4-2610	4-3110	0.400	83.3	-26.6	-15.25	1.184	100.8	0.457	1.767	325.2	547.5	0.959	2.576	8.45	0.465	83.8	257.0	18.9	0.210
4-2610	4-3130	0.395	83.9	-23.1	-14.25	1.185	101.5	0.463	1.773	323.0	550.3	0.952	2.594	7.74	0.466	81.4	255.6	16.8	0.215
4-2610	4-3150	0.394	84.9	-19.6	-13.40	1.186	102.4	0.471	1.780	320.6	552.8	0.943	2.618	7.19	0.468	79.1	255.1	15.0	0.223
4-2610	4-3170	0.397	86.2	-16.2	-12.66	1.187	103.3	0.479	1.789	317.9	555.1	0.932	2.647	6.76	0.470	76.9	255.2	13.4	0.233
4-2610	4-3190	0.404	87.7	-12.9	-12.00	1.188	104.4	0.489	1.800	315.1	557.1	0.919	2.680	6.43	0.471	74.8	256.1	12.0	0.244
4-2610	4-3210	0.413	89.4	-9.8	-11.40	1.190	105.6	0.501	1.811	312.0	559.0	0.904	2.718	6.17	0.473	72.8	257.5	10.9	0.257
4-2610	4-3230	0.426	91.3	-6.8	-10.84	1.191	106.9	0.513	1.823	308.8	560.6	0.888	2.759	5.98	0.475	70.8	259.4	10.0	0.270
4-2610	4-3250	0.442	93.3	-3.9	-10.32	1.193	108.2	0.527	1.837	305.3	562.0	0.868	2.805	5.83	0.476	68.9	261.7	9.1	0.284
4-2610	4-3270	0.461	95.4	-1.3	-9.82	1.195	109.7	0.542	1.851	301.7	563.2	0.847	2.854	5.74	0.477	66.9	264.3	8.4	0.299
4-2610	4-3290	0.483	97.6	1.2	-9.34	1.196	111.4	0.559	1.865	298.0	564.3	0.823	2.907	5.69	0.478	64.9	267.2	7.9	0.314
4-2610	4-3310	0.508	99.9	3.5	-8.87	1.198	113.1	0.576	1.880	294.1	565.1	0.796	2.964	5.68	0.479	62.9	270.4	7.3	0.330
4-2610	4-3330	0.535	102.2	5.6	-8.40	1.200	114.9	0.595	1.896	290.0	565.7	0.767	3.024	5.71	0.480	60.9	273.9	6.9	0.347
4-2610	4-3350	0.566	104.6	7.5	-7.93	1.202	116.9	0.616	1.912	285.8	566.2	0.735	3.089	5.77	0.480	58.7	277.5	6.5	0.364
4-2610	4-3370	0.599	107.0	9.3	-7.45	1.204	119.0	0.637	1.928	281.5	566.4	0.699	3.156	5.88	0.481	56.6	281.3	6.2	0.381
4-2610	4-3390	0.636	109.5	10.8	-6.95	1.206	121.2	0.660	1.945	277.0	566.5	0.661	3.228	6.03	0.481	54.3	285.2	5.9	0.399
4-2610	4-3410	0.675	112.0	12.2	-6.44	1.207	123.6	0.684	1.962	272.4	566.4	0.621	3.303	6.22	0.482	51.9	289.3	5.6	0.418
4-2610	4-3430	0.717	114.6	13.4	-5.88	1.209	126.1	0.708	1.979	267.6	566.1	0.577	3.381	6.46	0.482	49.4	293.5	5.4	0.438
4-2610	4-3450	0.761	117.2	14.4	-5.29	1.211	128.8	0.734	1.997	262.7	565.6	0.532	3.463	6.76	0.482	46.9	297.8	5.2	0.458
4-2610	4-3470	0.809	119.8	15.3	-4.65	1.213	131.6	0.760	2.015	257.7	564.9	0.484	3.547	7.13	0.483	44.2	302.3	5.0	0.478
4-2610	4-3490	0.859	122.5	16.0	-3.93	1.215	134.5	0.787	2.034	252.5	564.0	0.434	3.634	7.59	0.483	41.4	306.8	4.8	0.500
4-2610	4-3510	0.912	125.2	16.6	-3.12	1.217	137.6	0.813	2.053	247.1	562.9	0.384	3.723	8.15	0.484	38.4	311.5	4.7	0.522
4-2620	4-2800	0.555	77.8	22.5	-0.21	1.428	106.5	1.066	14.162	328.1	465.3	0.936	---	-10.45	0.902	145.0	279.5	-6.8	0.796
4-2620	4-2820	0.472	75.7	25.9	1.12	1.363	104.2	0.895	9.043	329.8	471.4	0.951	---	-11.46	0.798	141.1	281.0	-8.4	0.683
4-2620	4-2840	0.411	72.8	31.2	2.75	1.316	102.3	0.771	4.200	331.7	477.8	0.963	---	-12.78	0.717	136.8	282.1	-10.6	0.592
4-2620	4-2860	0.370	69.1	38.9	4.84	1.281	100.6	0.679	3.035	333.7	484.3	0.973	---	-14.57	0.653	132.3	282.7	-13.5	0.518
4-2620	4-2880	0.352	64.2	49.7	7.65	1.254	99.2	0.612	2.526	335.7	490.8	0.981	---	-17.06	0.603	127.6	282.7	-17.6	0.462
4-2620	4-2900	0.366	56.6	63.6	11.64	1.235	98.0	0.561	2.250	337.6	497.3	0.988	---	-20.75	0.564	122.9	281.5	-23.3	0.425
4-2620	4-2920	0.431	35.9	79.3	17.79	1.220	97.0	0.523	2.082	339.5	503.5	0.994	---	-26.60	0.535	118.2	278.4	-30.6	0.414
4-2620	4-2940	0.588	267.6	80.7	28.32	1.209	96.1	0.494	1.974	341.5	509.6	0.998	---	-36.83	0.512	113.6	271.9	-38.7	0.450
4-2620	4-2960	0.921	240.0	62.2	48.41	1.201	95.1	0.473	1.901	344.0	515.5	1.003	---	-56.62	0.496	109.0	261.2	-42.6	0.579
4-2620	4-3000	1.137	144.3	-61.5	-61.95	1.191	97.4	0.457	1.819	336.1	524.9	0.988	---	54.35	0.477	102.0	262.5	44.1	0.544
4-2620	4-3020	0.821	115.4	-60.3	-42.73	1.189	97.0	0.448	1.797	337.3	529.6	0.991	---	35.43	0.471	98.2	267.2	44.2	0.388

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2620	4-3040	0.649	100.5	-55.4	-32.59	1.187	96.9	0.444	1.783	337.3	533.9	0.992	---	25.61	0.468	94.8	267.6	41.0	0.307
4-2620	4-3060	0.550	93.1	-50.1	-26.63	1.186	97.1	0.442	1.776	336.7	537.9	0.990	---	19.96	0.467	91.7	265.7	37.2	0.264
4-2620	4-3080	0.488	89.3	-45.1	-22.73	1.185	97.4	0.443	1.773	335.5	541.5	0.988	2.559	16.39	0.467	88.8	263.2	33.3	0.240
4-2620	4-3100	0.447	87.5	-40.3	-19.97	1.186	97.9	0.445	1.774	334.0	544.8	0.984	2.564	13.96	0.467	86.2	260.8	29.5	0.228
4-2620	4-3120	0.420	86.9	-35.8	-17.91	1.186	98.5	0.449	1.778	332.1	547.8	0.979	2.577	12.22	0.468	83.8	258.9	26.1	0.224
4-2620	4-3140	0.402	87.1	-31.3	-16.28	1.187	99.3	0.455	1.784	330.0	550.5	0.973	2.596	10.94	0.470	81.5	257.7	23.1	0.225
4-2620	4-3160	0.391	87.9	-27.0	-14.95	1.188	100.1	0.461	1.793	327.6	553.0	0.966	2.619	9.97	0.472	79.3	257.3	20.5	0.229
4-2620	4-3180	0.386	89.1	-22.8	-13.84	1.189	101.0	0.469	1.802	324.9	555.2	0.957	2.648	9.22	0.473	77.3	257.5	18.2	0.236
4-2620	4-3200	0.386	90.7	-18.8	-12.87	1.191	102.0	0.478	1.813	322.1	557.3	0.946	2.680	8.64	0.475	75.4	258.4	16.3	0.245
4-2620	4-3220	0.390	92.5	-14.9	-12.02	1.192	103.2	0.488	1.825	319.0	559.1	0.934	2.716	8.18	0.476	73.5	259.9	14.7	0.256
4-2620	4-3240	0.397	94.6	-11.2	-11.25	1.194	104.4	0.500	1.838	315.8	560.7	0.920	2.756	7.83	0.478	71.7	261.7	13.4	0.267
4-2620	4-3260	0.408	96.8	-7.8	-10.55	1.195	105.7	0.512	1.852	312.4	562.1	0.904	2.800	7.55	0.479	69.9	264.0	12.2	0.280
4-2620	4-3280	0.423	99.1	-4.6	-9.89	1.197	107.1	0.525	1.866	308.9	563.4	0.885	2.846	7.35	0.480	68.1	266.6	11.2	0.292
4-2620	4-3300	0.441	101.6	-1.6	-9.27	1.199	108.6	0.540	1.881	305.2	564.4	0.865	2.897	7.21	0.481	66.3	269.5	10.4	0.306
4-2620	4-3320	0.461	104.1	1.1	-8.67	1.201	110.2	0.556	1.896	301.4	565.3	0.842	2.950	7.12	0.482	64.4	272.7	9.7	0.320
4-2620	4-3340	0.485	106.6	3.6	-8.09	1.203	111.9	0.573	1.912	297.5	566.1	0.816	3.007	7.08	0.482	62.6	276.0	9.1	0.334
4-2620	4-3360	0.512	109.2	5.8	-7.52	1.204	113.7	0.591	1.928	293.4	566.6	0.788	3.067	7.09	0.483	60.7	279.5	8.6	0.349
4-2620	4-3380	0.541	111.8	7.7	-6.94	1.206	115.6	0.610	1.944	289.2	567.0	0.757	3.131	7.15	0.483	58.7	283.2	8.1	0.365
4-2620	4-3400	0.573	114.4	9.4	-6.36	1.208	117.7	0.631	1.961	284.9	567.2	0.724	3.197	7.25	0.484	56.7	287.0	7.7	0.381
4-2620	4-3420	0.608	117.1	10.9	-5.77	1.210	119.8	0.652	1.978	280.5	567.3	0.688	3.268	7.40	0.484	54.6	291.0	7.3	0.397
4-2620	4-3440	0.645	119.7	12.2	-5.16	1.212	122.1	0.675	1.995	276.0	567.2	0.649	3.341	7.60	0.484	52.4	295.1	7.0	0.414
4-2620	4-3460	0.686	122.4	13.4	-4.52	1.213	124.5	0.698	2.013	271.4	566.9	0.608	3.417	7.85	0.484	50.1	299.2	6.8	0.432
4-2620	4-3480	0.728	125.1	14.3	-3.83	1.215	127.0	0.722	2.031	266.6	566.4	0.565	3.497	8.17	0.484	47.7	303.5	6.5	0.450
4-2620	4-3500	0.774	127.7	15.1	-3.10	1.217	129.6	0.747	2.049	261.7	565.8	0.519	3.579	8.56	0.485	45.2	307.9	6.3	0.469
4-2620	4-3520	0.821	130.4	15.7	-2.29	1.219	132.4	0.772	2.067	256.7	565.0	0.471	3.663	9.04	0.485	42.6	312.4	6.1	0.488
4-2630	4-2790	0.596	80.4	21.5	-0.68	1.499	104.7	1.264	-3.622	333.6	459.0	0.956	---	-10.20	1.009	147.3	280.1	-6.1	0.901
4-2630	4-2810	0.495	78.3	24.0	0.36	1.414	102.5	1.027	35.555	335.3	465.2	0.968	---	-10.83	0.880	143.6	281.6	-7.4	0.765
4-2630	4-2830	0.420	75.3	27.7	1.56	1.353	100.5	0.861	7.055	337.3	471.6	0.978	---	-11.64	0.780	139.6	282.9	-9.0	0.656
4-2630	4-2850	0.366	71.4	33.0	2.97	1.308	98.7	0.742	3.828	339.5	478.3	0.987	---	-12.66	0.702	135.2	283.9	-11.0	0.567
4-2630	4-2870	0.330	66.4	40.1	4.68	1.275	97.2	0.655	2.884	341.7	485.1	0.994	---	-14.00	0.641	130.7	284.5	-13.7	0.496
4-2630	4-2890	0.314	60.0	49.3	6.83	1.250	96.0	0.591	2.446	343.9	491.9	1.000	---	-15.77	0.593	126.0	284.5	-17.2	0.440
4-2630	4-2910	0.319	50.7	60.2	9.62	1.232	94.9	0.544	2.202	346.0	498.5	1.004	---	-18.20	0.557	121.3	283.6	-21.8	0.400
4-2630	4-2930	0.353	33.8	71.6	13.45	1.218	94.1	0.509	2.052	347.9	504.9	1.007	---	-21.66	0.530	116.7	281.5	-27.7	0.376
4-2630	4-2950	0.428	345.6	80.0	19.05	1.208	93.4	0.484	1.955	349.6	511.0	1.009	---	-26.90	0.509	112.1	277.7	-34.5	0.376
4-2630	4-2970	0.569	278.3	75.2	27.93	1.201	92.8	0.465	1.890	351.2	516.8	1.011	---	-35.43	0.494	107.8	271.7	-41.2	0.414
4-2630	4-2990	0.828	253.5	62.0	43.28	1.196	92.2	0.452	1.846	353.0	522.3	1.012	---	-50.42	0.484	103.6	263.8	-44.5	0.517
4-2630	4-3050	0.982	133.7	-67.1	-52.61	1.188	95.1	0.439	1.786	343.1	534.6	1.001	---	46.56	0.470	94.2	265.1	46.0	0.473
4-2630	4-3070	0.750	109.3	-63.0	-38.79	1.187	95.1	0.438	1.781	343.2	538.5	1.001	---	33.10	0.469	91.2	265.7	45.0	0.362
4-2630	4-3090	0.613	97.9	-57.2	-30.68	1.187	95.3	0.438	1.779	342.4	542.1	1.000	2.559	25.36	0.469	88.4	264.4	41.7	0.302
4-2630	4-3110	0.527	92.6	-51.5	-25.47	1.188	95.8	0.440	1.782	341.0	545.3	0.998	2.566	20.53	0.470	85.9	262.6	37.7	0.269
4-2630	4-3130	0.470	90.2	-45.9	-21.87	1.188	96.4	0.444	1.787	339.2	548.2	0.994	2.580	17.30	0.471	83.5	260.9	33.6	0.252
4-2630	4-3150	0.432	89.5	-40.6	-19.20	1.189	97.1	0.448	1.796	337.1	550.9	0.990	2.599	15.03	0.473	81.4	259.9	29.8	0.244
4-2630	4-3170	0.406	89.9	-35.5	-17.14	1.190	97.9	0.454	1.803	334.7	553.3	0.984	2.623	13.36	0.474	79.4	259.5	26.3	0.243
4-2630	4-3190	0.389	91.0	-30.5	-15.48	1.192	98.7	0.461	1.814	332.0	555.5	0.977	2.651	12.10	0.476	77.5	259.9	23.4	0.246
4-2630	4-3210	0.379	92.6	-25.7	-14.09	1.193	99.7	0.469	1.826	329.2	557.5	0.969	2.683	11.14	0.478	75.7	260.8	20.8	0.251
4-2630	4-3230	0.375	94.6	-21.1	-12.91	1.195	100.8	0.478	1.838	326.1	559.3	0.959	2.718	10.39	0.479	73.9	262.2	18.7	0.259
4-2630	4-3250	0.375	96.9	-16.6	-11.87	1.196	102.0	0.489	1.852	322.9	560.9	0.947	2.756	9.80	0.481	72.3	264.1	16.9	0.268
4-2630	4-3270	0.381	99.4	-12.5	-10.95	1.198	103.2	0.500	1.866	319.6	562.3	0.934	2.798	9.34	0.482	70.6	266.4	15.4	0.278
4-2630	4-3290	0.390	102.0	-8.6	-10.10	1.200	104.5	0.512	1.881	316.1	563.5	0.918	2.843	8.99	0.483	69.0	269.0	14.1	0.289
4-2630	4-3310	0.403	104.8	-5.1	-9.32	1.202	106.0	0.525	1.896	312.5	564.6	0.901	2.890	8.72	0.484	67.3	271.8	13.0	0.300
4-2630	4-3330	0.420	107.6	-1.8	-8.59	1.204	107.5	0.539	1.911	308.7	565.6	0.882	2.941	8.52	0.484	65.7	274.9	12.1	0.312
4-2630	4-3350	0.439	110.4	1.0	-7.89	1.205	109.0	0.554	1.927	304.9	566.3	0.860	2.995	8.39	0.485	64.0	278.2	11.3	0.325
4-2630	4-3370	0.462	113.3	3.6	-7.21	1.207	110.7	0.570	1.943	301.0	567.0	0.836	3.051	8.32	0.485	62.3	281.6	10.6	0.338
4-2630	4-3390	0.487	116.1	5.9	-6.55	1.209	112.5	0.587	1.960	296.9	567.5	0.809	3.111	8.30	0.485	60.5	285.2	10.0	0.351
4-2630	4-3410	0.516	119.0	7.8	-5.90	1.211	114.8	0.605	1.977	292.8	567.8	0.780	3.174	8.33	0.486	58.7	289.0	9.5	0.365
4-2630	4-3430	0.547	121.8	9.5	-5.24	1.212	116.3	0.625	1.994	288.5	568.0	0.748	3.239	8.41	0.486	56.8	292.8	9.0	0.379
4-2630	4-3450	0.580	124.6	11.0	-4.58	1.214	118.4	0.645	2.011	284.2	568.0	0.714	3.308	8.55	0.486	54.9	296.8	8.6	0.394
4-2630	4-3470	0.616	127.4	12.2	-3.89	1.216	120.5	0.666	2.028	279.8	567.9	0.678	3.379	8.73	0.486	52.9	300.8	8.3	0.409
4-2630	4-3490	0.655	130.2	13.2	-3.19	1.218	122.8	0.688	2.046	275.3	567.7	0.639	3.453	8.98	0.486	50.8	304.9	7.9	0.425
4-2630	4-3510	0.696	132.9	14.0	-2.44	1.219	125.2	0.710	2.064	270.6	567.3	0.598	3.530	9.29	0.486	48.6	309.2	7.7	0.442
4-2630	4-3530	0.739	135.6	14.6	-1.65	1.221	127.7	0.734	2.082	265.9	566.7	0.555	3.610	9.67	0.486	46.3	313.5	7.4	0.459
4-2640	4-2800	0.532	79.5	22.7	-0.16	1.478	100.3	1.207	-4.746	341.2	459.2	0.983	---	-10.53	0.977	145.9	282.1	-6.7	0.862
4-2640	4-2820	0.441	76.3	25.4	0.82	1.398	98.3	0.981	51.958	343.2	465.7	0.992	---	-11.03	0.853	142.1	283.5	-7.9	0.731
4-2640	4-2840	0.375	71.9	29.3	1.92	1.341	96.5	0.823	5.649	345.6	472.6	0.998	---	-11.65	0.758	138.0	284.7	-9.4	0.626
4-2640	4-2860	0.329	66.5	34.4	3.17	1.299	94.9	0.711	3.474	348.1	479.6	1.004	---	-12.44	0.684	133.6	285.5	-11.4	0.541
4-2640	4-2880	0.301	59.8	40.8	4.63	1.268	93.6	0.630	2.725	350.6	486.7	1.008	---	-13.45	0.626	129.0	285.9	-13.9	0.473
4-2640	4-2900	0.288	51.7	48.4	6.36	1.245	92.6	0.572	2.357	353.0	493.7	1.010	---	-14.75	0.582	124.3	285.7	-17.0	0.418
4-2640	4-2920	0.292	41.4	56.7	8.50	1.228	91.7	0.529	2.147	355.1	500.4	1.012	---	-16.46	0.548	119.6	284.8	-21.0	0.377
4-2640	4-2940	0.313	26.9	64.9	11.21	1.216	91.0	0.498	2.016	357.0	506.9	1.012	---	-18.75	0.523	115.0	283.0	-25.9	0.349
4-2640	4-2960	0.357	3.3	71.8	14.83	1.207	90.5	0.475	1.930	358.5	512.9	1.013	---	-21.95	0.504	110.5	280.1	-31.6	0.337
4-2640	4-2980	0.433	325.2	74.6	19.91	1.200	90.1	0.459	1.873	359.7	518.6	1.013	---	-26.62	0.491	106.3	275.9	-37.6	0.346
4-2640	4-3000	0.558	288.0	70.6	27.53	1.196	89.8	0.448	1.835	0.7	163.9	---	---	-33.83	0.481	102.3	270.5	-42.9	0.384
4-2640	4-3020	0.767	265.9	61.2	39.82	1.193	89.4	0.440	1.810	1.9	168.9	---	---	-45.72	0.475	98.5	265.0	-45.7	0.471
4-2640	4-3040	1.109	253.1	47.4	60.34	1.191	88.9	0.436	1.794	3.8	173.6	---	---	-65.84	0.472	94.9	261.3	-43.2	0.627
4-2640	4-3080	1.152	158.1	-72.1	-63.10	1.189	93.6	0.435	1.782	348.2	539.2	1.006	---	58.41	0.470	90.7	266.1	44.8	0.568
4-2640	4-3100	0.862	118.9	-69.9	-45.46	1.189	93.5	0.435	1.783	348.6	542.8	1.007	2.560	41.19	0.470	87.9	266.3	46.3	0.428
4-2640	4-3120	0.683	101.5	-63.5	-34.90	1.190	93.7	0.437	1.787	347.7	546.0	1.006	2.569	31.03	0.472	85.4	265.1	44.2	0.348
4-2640	4-3140	0.570	94.4	-57.0	-28.21	1.191	94.2	0.440	1.794	346.2	548.8	1.004	2.584	24.76	0.473	83.2	263.6	40.5	0.303
4-2640	4-3160	0.495	91.7	-50.8	-23.65	1.192	94.9	0.445	1.802	344.2	551.4	1.001	2.604	20.62	0.475	81.1	262.5	36.3	0.279
4-2640	4-3180	0.444	91.1	-44.8	-20.35	1.193	95.6	0.450	1.813	341.8	553.7	0.997	2.628	17.75	0.477	79.2	262.1	32.3	0.267

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2640	4-3200	0.410	91.8	-39.1	-17.83	1.194	96.5	0.456	1.824	339.2	555.9	0.992	2.656	15.66	0.478	77.5	262.4	28.7	0.263
4-2640	4-3220	0.386	93.3	-33.5	-15.82	1.196	97.4	0.463	1.837	336.3	557.8	0.986	2.687	14.11	0.480	75.8	263.3	25.5	0.263
4-2640	4-3240	0.371	95.4	-28.1	-14.17	1.198	98.5	0.471	1.850	333.3	559.5	0.978	2.722	12.91	0.482	74.2	264.7	22.8	0.267
4-2640	4-3260	0.363	97.9	-22.9	-12.77	1.199	99.6	0.480	1.864	330.1	561.1	0.969	2.759	11.99	0.483	72.6	266.5	20.6	0.273
4-2640	4-3280	0.361	100.8	-18.0	-11.56	1.201	100.8	0.490	1.879	326.8	562.5	0.958	2.800	11.26	0.484	71.1	268.8	18.6	0.280
4-2640	4-3300	0.364	103.8	-13.4	-10.49	1.203	102.0	0.501	1.894	323.4	563.7	0.946	2.843	10.70	0.485	69.6	271.3	17.0	0.288
4-2640	4-3320	0.371	106.9	-9.2	-9.52	1.205	103.4	0.512	1.910	319.8	564.8	0.932	2.888	10.25	0.486	68.1	274.1	15.6	0.298
4-2640	4-3340	0.383	110.1	-5.3	-8.63	1.206	104.8	0.525	1.926	316.1	565.8	0.916	2.936	9.91	0.486	66.6	277.2	14.5	0.308
4-2640	4-3360	0.398	113.4	-1.9	-7.80	1.208	106.3	0.538	1.942	312.4	566.6	0.897	2.987	9.65	0.487	65.1	280.4	13.5	0.318
4-2640	4-3380	0.417	116.6	1.1	-7.01	1.210	107.8	0.552	1.959	308.5	567.3	0.877	3.041	9.47	0.487	63.6	283.8	12.6	0.329
4-2640	4-3400	0.438	119.8	3.8	-6.26	1.212	109.5	0.568	1.976	304.6	567.8	0.854	3.097	9.35	0.487	62.0	287.3	11.8	0.341
4-2640	4-3420	0.463	123.0	6.0	-5.53	1.214	111.2	0.584	1.992	300.6	568.3	0.829	3.156	9.29	0.488	60.4	290.9	11.2	0.353
4-2640	4-3440	0.490	126.1	7.9	-4.81	1.215	113.0	0.601	2.010	296.5	568.5	0.802	3.217	9.29	0.488	58.7	294.7	10.6	0.365
4-2640	4-3460	0.520	129.2	9.6	-4.10	1.217	114.9	0.619	2.027	292.3	568.7	0.773	3.281	9.34	0.488	57.0	298.5	10.1	0.378
4-2640	4-3480	0.552	132.1	10.9	-3.38	1.219	116.9	0.638	2.044	288.1	568.8	0.741	3.348	9.45	0.488	55.2	302.5	9.7	0.391
4-2640	4-3500	0.587	135.1	12.0	-2.65	1.221	118.9	0.657	2.062	283.7	568.7	0.706	3.417	9.61	0.488	53.3	306.5	9.3	0.405
4-2640	4-3520	0.624	137.9	12.9	-1.90	1.222	121.1	0.678	2.080	279.3	568.5	0.670	3.489	9.83	0.488	51.4	310.6	8.9	0.419
4-2640	4-3540	0.663	140.7	13.5	-1.12	1.224	123.3	0.699	2.097	274.8	568.1	0.631	3.564	10.11	0.488	49.3	314.7	8.6	0.434
4-2650	4-2790	0.590	79.5	21.6	-0.58	1.561	97.4	1.457-2.182		347.5	453.6	0.997	---	-10.43	1.095	148.0	282.5	-6.2	0.980
4-2650	4-2810	0.477	76.0	23.7	0.29	1.456	95.6	1.140-7.153		349.5	460.2	1.002	---	-10.71	0.941	144.5	283.8	-7.1	0.820
4-2650	4-2830	0.398	71.2	26.6	1.23	1.381	93.9	0.92814.052		352.0	467.1	1.006	---	-11.07	0.824	140.7	285.0	-8.3	0.695
4-2650	4-2850	0.343	65.1	30.3	2.25	1.328	92.3	0.782	4.630	354.7	474.4	1.009	---	-11.54	0.733	136.4	286.0	-9.8	0.595
4-2650	4-2870	0.307	58.0	34.8	3.37	1.289	91.0	0.679	3.149	357.6	481.8	1.010	---	-12.14	0.663	131.9	286.6	-11.6	0.514
4-2650	4-2890	0.286	50.0	40.0	4.64	1.261	89.9	0.606	2.565	0.3	129.1	---	---	-12.89	0.609	127.3	286.8	-14.0	0.448
4-2650	4-2910	0.279	41.3	45.7	6.10	1.240	89.0	0.554	2.263	2.9	136.3	---	---	-13.85	0.568	122.5	286.4	-16.8	0.396
4-2650	4-2930	0.283	31.6	51.5	7.82	1.224	88.3	0.516	2.085	5.0	143.1	---	---	-15.08	0.537	117.8	285.4	-20.4	0.355
4-2650	4-2950	0.298	20.5	57.4	9.90	1.213	87.8	0.489	1.973	6.8	149.5	---	---	-16.68	0.514	113.2	283.5	-24.6	0.326
4-2650	4-2970	0.327	6.6	62.9	12.49	1.205	87.4	0.470	1.900	8.1	155.5	---	---	-18.81	0.497	108.8	280.8	-29.4	0.309
4-2650	4-2990	0.373	348.0	67.3	15.85	1.199	87.2	0.456	1.852	9.0	161.0	---	---	-21.72	0.485	104.7	277.2	-34.6	0.306
4-2650	4-3010	0.443	323.6	69.1	20.43	1.196	87.1	0.447	1.820	9.5	166.0	---	---	-25.84	0.478	100.8	273.0	-39.6	0.321
4-2650	4-3030	0.551	297.9	67.0	27.01	1.193	87.0	0.441	1.799	9.8	170.7	---	---	-31.98	0.473	97.2	268.7	-43.8	0.359
4-2650	4-3050	0.723	277.8	60.6	37.12	1.191	86.9	0.437	1.788	10.2	175.0	---	---	-41.64	0.470	93.9	265.3	-46.1	0.433
4-2650	4-3070	0.998	264.5	49.8	53.39	1.191	86.7	0.436	1.782	11.0	179.1	---	---	-57.47	0.470	90.7	264.0	-45.0	0.560
4-2650	4-3130	0.986	131.4	-76.4	-52.75	1.192	92.0	0.437	1.790	353.5	546.6	1.009	2.572	49.98	0.472	84.9	269.3	45.9	0.502
4-2650	4-3150	0.760	103.4	-69.4	-39.40	1.193	92.2	0.439	1.799	352.7	549.5	1.008	2.589	37.07	0.474	82.7	267.8	45.2	0.399
4-2650	4-3170	0.617	94.5	-61.8	-30.99	1.194	92.7	0.443	1.809	351.1	552.0	1.007	2.610	29.10	0.476	80.7	266.3	42.1	0.341
4-2650	4-3190	0.522	91.7	-54.8	-25.36	1.196	93.4	0.448	1.820	348.9	554.3	1.005	2.635	23.93	0.478	78.9	265.4	38.2	0.308
4-2650	4-3210	0.458	91.5	-48.2	-21.35	1.197	94.2	0.453	1.833	346.4	556.3	1.002	2.664	20.38	0.480	77.3	265.3	34.1	0.291
4-2650	4-3230	0.414	92.7	-41.9	-18.35	1.199	95.2	0.460	1.846	343.6	558.2	0.998	2.695	17.83	0.482	75.7	266.0	30.4	0.283
4-2650	4-3250	0.383	94.9	-35.9	-15.99	1.201	96.1	0.467	1.861	340.6	559.9	0.993	2.729	15.94	0.483	74.2	267.3	27.1	0.280
4-2650	4-3270	0.363	97.6	-30.0	-14.08	1.202	97.2	0.474	1.876	337.4	561.4	0.986	2.765	14.51	0.485	72.8	269.1	24.3	0.282
4-2650	4-3290	0.351	100.8	-24.3	-12.47	1.204	98.4	0.483	1.891	334.1	562.7	0.978	2.804	13.40	0.486	71.4	271.2	22.0	0.286
4-2650	4-3310	0.345	104.2	-19.0	-11.10	1.206	99.6	0.492	1.907	330.7	563.9	0.968	2.846	12.53	0.487	70.0	273.7	19.9	0.291
4-2650	4-3330	0.346	107.9	-14.0	-9.89	1.208	100.8	0.502	1.923	327.2	565.0	0.957	2.890	11.85	0.488	68.7	276.5	18.2	0.298
4-2650	4-3350	0.352	111.6	-9.4	-8.81	1.210	102.2	0.513	1.940	323.6	566.0	0.944	2.936	11.31	0.488	67.3	279.4	16.8	0.306
4-2650	4-3370	0.362	115.3	-5.3	-7.82	1.211	103.6	0.525	1.957	319.9	566.8	0.929	2.984	10.89	0.489	66.0	282.6	15.6	0.314
4-2650	4-3390	0.376	119.1	-1.7	-6.91	1.213	105.1	0.538	1.973	316.1	567.5	0.912	3.035	10.57	0.489	64.6	285.9	14.5	0.323
4-2650	4-3410	0.394	122.8	1.4	-6.06	1.215	106.6	0.551	1.991	312.2	568.1	0.893	3.088	10.33	0.489	63.2	289.4	13.6	0.333
4-2650	4-3430	0.415	126.4	4.1	-5.25	1.217	108.2	0.566	2.008	308.3	568.6	0.872	3.143	10.16	0.489	61.7	292.9	12.8	0.343
4-2650	4-3450	0.439	129.8	6.3	-4.46	1.219	109.9	0.581	2.025	304.4	569.0	0.849	3.201	10.06	0.489	60.2	296.6	12.1	0.353
4-2650	4-3470	0.465	133.2	8.1	-3.70	1.220	111.6	0.597	2.043	300.3	569.3	0.824	3.261	10.01	0.489	58.7	300.4	11.5	0.364
4-2650	4-3490	0.494	136.5	9.6	-2.95	1.222	113.4	0.613	2.060	296.2	569.4	0.796	3.324	10.03	0.489	57.1	304.2	11.0	0.375
4-2650	4-3510	0.525	139.7	10.8	-2.20	1.224	115.3	0.631	2.078	292.1	569.5	0.767	3.389	10.10	0.489	55.4	308.1	10.5	0.387
4-2650	4-3530	0.559	142.7	11.8	-1.44	1.225	117.3	0.649	2.095	287.8	569.4	0.735	3.456	10.22	0.490	53.7	312.1	10.1	0.399
4-2650	4-3550	0.594	145.6	12.5	-0.67	1.227	119.3	0.668	2.113	283.5	569.2	0.701	3.525	10.40	0.490	51.9	316.1	9.7	0.412
4-2660	4-2800	0.538	74.6	22.3	-0.14	1.529	92.2	1.357-2.822		356.2	455.0	1.007	---	-10.58	1.048	146.9	284.0	-6.5	0.929
4-2660	4-2820	0.440	69.4	24.4	0.71	1.431	90.6	1.06615.379		358.8	462.0	1.008	---	-10.75	0.901	143.2	285.2	-7.4	0.776
4-2660	4-2840	0.374	62.9	27.1	1.61	1.363	89.2	0.872	7.888	1.8	109.5	---	---	-10.99	0.790	139.2	286.2	-8.6	0.657
4-2660	4-2860	0.331	55.5	30.1	2.56	1.313	87.9	0.740	3.874	4.9	117.2	---	---	-11.31	0.705	134.9	286.9	-10.0	0.562
4-2660	4-2880	0.305	47.6	33.5	3.59	1.278	86.8	0.648	2.857	8.1	125.0	---	---	-11.74	0.640	130.2	287.2	-11.8	0.485
4-2660	4-2900	0.292	39.6	37.2	4.72	1.252	85.9	0.584	2.409	11.0	132.5	---	---	-12.29	0.590	125.4	287.1	-14.0	0.423
4-2660	4-2920	0.289	31.9	41.0	5.98	1.234	85.2	0.539	2.166	13.6	139.8	---	---	-12.99	0.552	120.6	286.5	-16.6	0.373
4-2660	4-2940	0.293	24.4	45.1	7.41	1.220	84.7	0.507	2.020	15.7	146.5	---	---	-13.88	0.524	115.8	285.1	-19.8	0.334
4-2660	4-2960	0.305	16.7	49.5	9.07	1.210	84.4	0.484	1.927	17.3	152.8	---	---	-15.02	0.503	111.3	283.0	-23.4	0.306
4-2660	4-2980	0.324	8.3	54.1	11.05	1.203	84.2	0.468	1.866	18.3	158.5	---	---	-16.49	0.489	106.9	280.2	-27.5	0.287
4-2660	4-3000	0.352	358.3	58.5	13.48	1.198	84.1	0.457	1.826	18.8	163.8	---	---	-18.42	0.479	102.8	276.8	-31.9	0.280
4-2660	4-3020	0.394	345.2	62.4	16.56	1.195	84.2	0.449	1.801	18.9	168.5	---	---	-21.02	0.473	99.1	273.1	-36.2	0.283
4-2660	4-3040	0.455	328.1	64.8	20.65	1.193	84.3	0.444	1.786	18.7	172.9	---	---	-24.62	0.469	95.6	269.4	-40.2	0.301
4-2660	4-3060	0.547	308.2	64.4	26.34	1.192	84.4	0.442	1.778	18.2	176.8	---	---	-29.84	0.468	92.5	266.4	-43.6	0.337
4-2660	4-3080	0.688	289.6	60.3	34.74	1.192	84.6	0.440	1.776	17.7	180.5	---	2.558	-37.77	0.468	89.6	264.9	-45.8	0.400
4-2660	4-3100	0.910	275.7	52.1	47.83	1.192	84.6	0.441	1.778	17.6	183.9	---	2.562	-50.40	0.469	86.9	265.6	-45.8	0.503
4-2660	4-3160	1.122	155.9	-82.6	-60.91	1.195	90.6	0.440	1.801	358.0	550.1	1.008	2.594	59.71	0.474	82.2	274.2	44.2	0.582
4-2660	4-3180	0.848	102.1	-75.0	-44.39	1.197	90.8	0.444	1.813	357.4	552.7	1.008	2.618	43.65	0.477	80.3	272.2	45.3	0.456
4-2660	4-3200	0.669	92.5	-66.0	-33.93	1.198	91.3	0.448	1.826	355.8	554.9	1.008	2.644	33.64	0.479	78.5	270.3	43.1	0.381
4-2660	4-3220	0.551	90.4	-58.1	-27.05	1.200	92.0	0.453	1.840	353.5	556.9	1.006	2.673	27.23	0.481	76.9	269.4	39.4	0.338
4-2660	4-3240	0.472	91.0	-50.8	-22.25	1.202	92.9	0.458	1.854	350.8	558.6	1.004	2.704	22.90	0.483	75.5	269.4	35.4	0.314
4-2660	4-3260	0.417	92.9	-44.1	-18.72	1.204	93.8	0.464	1.870	347.9	560.3	1.001	2.738	19.84	0.485	74.1	270.3	31.6	0.302
4-2660	4-3280	0.379	95.8	-37.5	-16.00	1.205	94.9	0.471	1.886	344.8	561.7	0.997	2.774	17.59	0.486	72.8	271.8	28.2	0.297
4-2660	4-3300	0.354	99.3	-31.2	-13.82	1.207	96.0	0.479	1.902	341.5	563.0	0.992	2.812	15.90	0.487	71.5	273.8	25.4	0.296
4-2660	4-3320	0.337	103.1	-25.1	-12.02	1.209	97.1	0.487	1.919	338.1	564.2	0.985	2.853	14.60	0.488	70.3	276.2	22.9	0.297

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2660	4-3340	0.329	107.3	-19.3	-10.49	1.211	98.3	0.496	1.936	334.7	565.3	0.976	2.895	13.59	0.489	69.0	278.8	20.9	0.301
4-2660	4-3360	0.328	111.6	-14.0	-9.16	1.213	99.6	0.505	1.953	331.1	566.2	0.966	2.939	12.78	0.490	67.8	281.7	19.1	0.307
4-2660	4-3380	0.332	116.0	-9.1	-7.98	1.215	100.9	0.515	1.970	327.4	567.1	0.955	2.985	12.15	0.490	66.6	284.8	17.6	0.313
4-2660	4-3400	0.341	120.4	-4.9	-6.92	1.217	102.3	0.527	1.987	323.7	567.8	0.941	3.034	11.65	0.491	65.3	288.1	16.3	0.320
4-2660	4-3420	0.354	124.6	-1.1	-5.94	1.218	103.8	0.538	2.005	319.9	568.4	0.926	3.084	11.25	0.491	64.1	291.5	15.2	0.328
4-2660	4-3440	0.371	128.8	2.0	-5.03	1.220	105.3	0.551	2.022	316.1	569.0	0.908	3.136	10.95	0.491	62.8	294.9	14.3	0.336
4-2660	4-3460	0.392	132.8	4.6	-4.18	1.222	106.9	0.564	2.040	312.2	569.4	0.889	3.191	10.73	0.491	61.4	298.5	13.5	0.344
4-2660	4-3480	0.415	136.7	6.7	-3.36	1.224	108.5	0.578	2.058	308.3	569.7	0.868	3.247	10.58	0.491	60.1	302.2	12.8	0.353
4-2660	4-3500	0.440	140.3	8.4	-2.57	1.225	110.2	0.593	2.075	304.3	570.0	0.845	3.306	10.49	0.491	58.6	306.0	12.1	0.363
4-2660	4-3520	0.468	143.8	9.7	-1.80	1.227	111.9	0.609	2.093	300.3	570.1	0.819	3.367	10.46	0.491	57.2	309.8	11.6	0.373
4-2660	4-3540	0.498	147.1	10.8	-1.03	1.229	113.7	0.625	2.111	296.2	570.2	0.792	3.430	10.49	0.491	55.7	313.6	11.1	0.383
4-2660	4-3560	0.531	150.3	11.5	-0.27	1.230	115.6	0.642	2.129	292.1	570.2	0.763	3.495	10.57	0.491	54.1	317.6	10.7	0.394
4-2670	4-2790	0.636	72.7	21.1	-0.56	1.626	87.8	1.660-1.523		3.5	90.3	---	---	-10.62	1.182	149.2	284.1	-6.0	1.066
4-2670	4-2810	0.509	67.3	22.6	0.27	1.495	86.6	1.248-4.044		6.1	97.4	---	---	-10.61	0.996	145.8	285.1	-6.8	0.876
4-2670	4-2830	0.427	60.5	24.4	1.12	1.406	85.4	0.98778.761		9.3	105.0	---	---	-10.66	0.858	142.0	286.1	-7.7	0.732
4-2670	4-2850	0.376	53.1	26.4	1.99	1.343	84.3	0.816	5.401	12.8	113.1	---	---	-10.78	0.754	137.8	286.8	-8.8	0.619
4-2670	4-2870	0.344	45.5	28.5	2.89	1.298	83.3	0.700	3.302	16.4	121.2	---	---	-10.98	0.674	133.2	287.2	-10.2	0.529
4-2670	4-2890	0.327	38.3	30.7	3.84	1.266	82.4	0.622	2.599	19.8	129.2	---	---	-11.26	0.613	128.4	287.2	-11.9	0.457
4-2670	4-2910	0.319	31.8	33.1	4.85	1.243	81.8	0.567	2.260	22.8	136.9	---	---	-11.64	0.567	123.5	286.7	-13.9	0.398
4-2670	4-2930	0.318	26.0	35.8	5.96	1.227	81.3	0.530	2.069	25.2	144.0	---	---	-12.13	0.533	118.6	285.7	-16.3	0.351
4-2670	4-2950	0.321	20.7	38.9	7.18	1.215	81.0	0.503	1.951	27.1	150.6	---	---	-12.76	0.508	113.8	284.0	-19.1	0.315
4-2670	4-2970	0.329	15.8	42.4	8.54	1.206	80.9	0.485	1.877	28.3	156.6	---	---	-13.56	0.490	109.1	281.6	-22.2	0.288
4-2670	4-2990	0.341	10.7	46.2	10.12	1.201	80.8	0.472	1.828	28.9	162.0	---	---	-14.59	0.478	104.8	278.6	-25.6	0.269
4-2670	4-3010	0.358	4.9	50.3	11.97	1.197	80.9	0.463	1.798	29.0	166.9	---	---	-15.91	0.471	100.8	275.2	-29.2	0.260
4-2670	4-3030	0.383	357.8	54.6	14.20	1.194	81.1	0.456	1.779	28.7	171.3	---	---	-17.62	0.466	97.2	271.6	-32.7	0.259
4-2670	4-3050	0.418	348.4	58.6	16.98	1.193	81.4	0.452	1.769	28.0	175.3	---	---	-19.90	0.464	93.9	268.3	-36.1	0.267
4-2670	4-3070	0.469	335.6	61.6	20.58	1.193	81.7	0.450	1.766	27.0	178.9	---	---	-23.01	0.464	90.9	265.7	-39.3	0.286
4-2670	4-3090	0.544	319.3	62.7	25.47	1.193	82.1	0.448	1.767	25.8	182.2	---	2.559	-27.42	0.465	88.2	264.2	-42.1	0.319
4-2670	4-3110	0.658	301.9	60.6	32.46	1.193	82.5	0.448	1.772	24.5	185.3	---	2.566	-33.93	0.467	85.7	264.3	-44.4	0.371
4-2670	4-3130	0.835	287.3	54.6	43.04	1.194	82.8	0.449	1.780	23.5	188.1	---	2.580	-44.03	0.469	83.5	266.5	-45.4	0.454
4-2670	4-3150	1.108	277.2	44.3	59.58	1.196	82.8	0.452	1.790	23.1	190.9	---	2.599	-60.11	0.471	81.3	271.1	-43.7	0.585
4-2670	4-3210	0.951	93.3	-80.4	-50.25	1.201	89.5	0.450	1.830	1.8	195.4	---	2.653	51.10	0.479	78.0	278.1	44.6	0.519
4-2670	4-3230	0.729	87.5	-69.6	-37.23	1.203	89.9	0.455	1.845	0.2	197.4	---	2.684	38.54	0.481	76.5	275.6	43.5	0.424
4-2670	4-3250	0.584	87.7	-60.6	-28.81	1.205	90.7	0.460	1.861	357.9	559.1	1.006	2.716	30.58	0.483	75.1	274.2	40.1	0.369
4-2670	4-3270	0.487	89.6	-52.7	-23.08	1.207	91.5	0.465	1.877	355.2	560.7	1.005	2.750	25.32	0.485	73.8	274.2	36.2	0.337
4-2670	4-3290	0.421	92.6	-45.4	-18.97	1.209	92.5	0.471	1.894	352.2	562.1	1.003	2.786	21.67	0.487	72.6	275.1	32.4	0.320
4-2670	4-3310	0.375	96.2	-38.4	-15.85	1.210	93.5	0.477	1.911	349.0	563.4	1.000	2.823	19.03	0.488	71.4	276.7	29.0	0.312
4-2670	4-3330	0.344	100.5	-31.7	-13.40	1.212	94.7	0.484	1.929	345.7	564.5	0.996	2.862	17.06	0.489	70.3	278.8	26.0	0.308
4-2670	4-3350	0.324	105.1	-25.2	-11.41	1.214	95.8	0.491	1.947	342.2	565.5	0.990	2.903	15.56	0.490	69.2	281.3	23.5	0.308
4-2670	4-3370	0.313	110.1	-19.0	-9.74	1.216	97.1	0.500	1.964	338.7	566.5	0.983	2.946	14.39	0.491	68.1	284.1	21.4	0.310
4-2670	4-3390	0.309	115.1	-13.4	-8.30	1.218	98.3	0.509	1.982	335.1	567.3	0.974	2.990	13.46	0.491	66.9	287.1	19.6	0.314
4-2670	4-3410	0.312	120.2	-8.3	-7.04	1.220	99.7	0.518	2.000	331.4	568.0	0.964	3.037	12.73	0.492	65.8	290.2	18.1	0.319
4-2670	4-3430	0.320	125.2	-3.9	-5.91	1.222	101.0	0.528	2.018	327.7	568.7	0.952	3.085	12.15	0.492	64.7	293.5	16.8	0.324
4-2670	4-3450	0.333	130.1	-0.1	-4.89	1.224	102.5	0.539	2.036	323.9	569.3	0.938	3.134	11.69	0.492	63.5	297.0	15.7	0.331
4-2670	4-3470	0.349	134.8	3.0	-3.95	1.225	103.9	0.551	2.054	320.1	569.7	0.923	3.186	11.32	0.492	62.4	300.5	14.7	0.337
4-2670	4-3490	0.369	139.2	5.5	-3.07	1.227	105.5	0.563	2.072	316.3	570.1	0.905	3.239	11.05	0.492	61.1	304.1	13.9	0.345
4-2670	4-3510	0.391	143.4	7.4	-2.23	1.229	107.0	0.576	2.090	312.4	570.5	0.886	3.294	10.84	0.492	59.9	307.7	13.1	0.352
4-2670	4-3530	0.416	147.4	8.9	-1.43	1.230	108.7	0.590	2.108	308.5	570.7	0.865	3.351	10.71	0.492	58.6	311.5	12.5	0.361
4-2670	4-3550	0.443	151.1	10.0	-0.65	1.232	110.3	0.604	2.126	304.5	570.8	0.842	3.410	10.63	0.493	57.2	315.3	11.9	0.369
4-2670	4-3570	0.472	154.6	10.8	0.11	1.234	112.1	0.619	2.144	300.5	570.9	0.817	3.471	10.61	0.493	55.9	319.1	11.4	0.378
4-2680	4-2800	0.619	65.3	21.1	-0.15	1.581	81.6	1.497-1.984		14.0	93.3	---	---	-10.63	1.117	148.5	284.9	-6.2	1.003
4-2680	4-2820	0.511	58.6	22.3	0.70	1.460	80.7	1.136-7.203		17.4	101.1	---	---	-10.51	0.941	145.0	285.7	-6.9	0.824
4-2680	4-2840	0.445	51.4	23.6	1.53	1.379	79.9	0.91010.829		21.2	109.5	---	---	-10.45	0.812	140.9	286.4	-7.7	0.688
4-2680	4-2860	0.405	44.3	24.8	2.38	1.322	79.1	0.764	4.075	25.3	118.1	---	---	-10.46	0.714	136.5	286.8	-8.8	0.582
4-2680	4-2880	0.383	37.9	26.1	3.23	1.282	78.4	0.667	2.863	29.1	126.5	---	---	-10.53	0.640	131.7	286.8	-10.1	0.497
4-2680	4-2900	0.371	32.3	27.6	4.12	1.254	77.9	0.602	2.374	32.6	134.6	---	---	-10.68	0.584	126.6	286.4	-11.7	0.429
4-2680	4-2920	0.365	27.6	29.4	5.04	1.234	77.5	0.558	2.121	35.4	142.1	---	---	-10.91	0.543	121.5	285.5	-13.5	0.374
4-2680	4-2940	0.363	23.6	31.5	6.02	1.220	77.2	0.528	1.974	37.5	149.0	---	---	-11.23	0.512	116.4	284.0	-15.7	0.331
4-2680	4-2960	0.364	20.2	33.9	7.07	1.209	77.1	0.507	1.882	38.9	155.2	---	---	-11.66	0.491	111.5	281.9	-18.1	0.297
4-2680	4-2980	0.368	17.0	36.8	8.22	1.202	77.2	0.492	1.825	39.7	160.7	---	---	-12.21	0.476	106.9	279.2	-20.7	0.272
4-2680	4-3000	0.374	14.0	40.0	9.51	1.198	77.3	0.481	1.788	39.8	165.7	---	---	-12.92	0.466	102.6	276.0	-23.5	0.255
4-2680	4-3020	0.382	10.6	43.6	10.96	1.195	77.6	0.474	1.766	39.5	170.1	---	---	-13.82	0.461	98.7	272.5	-26.3	0.246
4-2680	4-3040	0.395	6.7	47.6	12.65	1.193	77.9	0.468	1.754	38.7	174.1	---	---	-14.97	0.458	95.1	269.2	-29.0	0.243
4-2680	4-3060	0.414	1.6	51.8	14.66	1.193	78.3	0.464	1.750	37.5	177.7	---	---	-16.46	0.458	92.0	266.2	-31.6	0.247
4-2680	4-3080	0.441	354.7	55.9	17.12	1.193	78.8	0.462	1.751	36.0	181.0	---	2.559	-18.42	0.459	89.1	263.9	-34.2	0.258
4-2680	4-3100	0.481	344.8	59.5	20.25	1.193	79.4	0.460	1.755	34.3	184.0	---	2.563	-21.06	0.461	86.6	262.6	-36.8	0.276
4-2680	4-3120	0.541	331.3	61.7	24.40	1.195	79.9	0.459	1.764	32.5	186.8	---	2.573	-24.72	0.463	84.3	262.4	-39.4	0.304
4-2680	4-3140	0.631	315.2	61.4	30.16	1.196	80.5	0.459	1.774	30.6	189.4	---	2.589	-30.02	0.466	82.2	263.7	-41.9	0.346
4-2680	4-3160	0.770	299.7	57.6	38.66	1.198	81.0	0.460	1.786	28.8	191.7	---	2.609	-38.05	0.470	80.3	266.9	-43.9	0.412
4-2680	4-3180	0.989	288.0	49.4	51.84	1.199	81.4	0.463	1.800	27.5	194.0	---	2.633	-50.77	0.473	78.5	272.4	-44.2	0.515
4-2680	4-3240	1.077	54.9	-84.6	-57.59	1.205	88.2	0.458	1.848	5.8	197.9	---	2.695	60.01	0.481	76.0	285.2	43.1	0.591
4-2680	4-3260	0.802	78.6	-72.6	-41.23	1.207	88.6	0.463	1.865	4.5	199.6	---	2.729	44.10	0.483	74.6	281.9	43.5	0.471
4-2680	4-3280	0.622	83.7	-62.5	-30.80	1.209	89.3	0.467	1.883	2.3	201.1	---	2.763	34.12	0.485	73.4	279.8	40.7	0.400
4-2680	4-3300	0.504	87.7	-53.8	-23.92	1.212	90.1	0.472	1.901	359.5	562.5	1.003	2.799	27.68	0.487	72.2	279.4	36.8	0.360
4-2680	4-3320	0.425	91.8	-45.9	-19.11	1.214	91.1	0.478	1.919	356.5	563.7	1.003	2.836	23.32	0.488	71.1	280.2	32.9	0.337
4-2680	4-3340	0.371	96.4	-38.4	-15.57	1.216	92.2	0.484	1.938	353.2	564.8	1.001	2.875	20.24	0.490	70.1	281.8	29.4	0.325
4-2680	4-3360	0.334	101.5	-31.2	-12.84	1.218	93.3	0.490	1.956	349.8	565.8	0.998	2.915	17.96	0.491	69.1	283.9	26.3	0.319
4-2680	4-3380	0.310	106.9	-24.3	-10.65	1.220	94.5	0.497	1.975	346.3	566.7	0.994	2.956	16.24	0.492	68.1	286.5	23.7	0.317
4-2680	4-3400	0.296	112.6	-17.8	-8.85	1.222	95.8	0.504	1.994	342.8	567.6	0.988	2.999	14.91	0.492	67.1	289.4	21.6	0.317
4-2680	4-3420	0.291	118.4	-11.9	-7.32	1.223	97.0	0.513	2.012	339.2	568.3	0.981	3.044	13.87	0.493	66.1	292.4	19.7	0.320

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

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

DEPARTURE PLANET= EARTH
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ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3060	4-3560	0.438	178.9	-0.4	-0.30	1.204	111.3	0.554	1.811	297.6	541.7	0.808	2.814	10.73	0.399	87.9	0.3	19.7	0.220
4-3060	4-3580	0.451	180.8	1.1	0.53	1.205	112.1	0.561	1.817	295.9	544.0	0.797	2.837	10.40	0.396	84.9	359.3	18.4	0.225
4-3060	4-3600	0.466	182.7	2.2	1.30	1.206	112.9	0.570	1.824	294.1	546.2	0.784	2.864	10.14	0.394	81.9	359.0	17.2	0.232
4-3060	4-3620	0.483	184.5	3.1	2.03	1.207	113.8	0.580	1.833	292.1	548.1	0.770	2.896	9.94	0.393	79.1	359.1	16.1	0.240
4-3060	4-3640	0.502	186.3	3.8	2.73	1.208	114.8	0.591	1.843	289.9	549.9	0.754	2.932	9.79	0.393	76.3	359.8	15.1	0.249
4-3060	4-3660	0.523	188.1	4.2	3.40	1.210	115.9	0.602	1.854	287.6	551.5	0.737	2.971	9.70	0.393	73.6	0.9	14.2	0.260
4-3060	4-3680	0.545	189.8	4.5	4.06	1.211	117.1	0.615	1.866	285.2	553.0	0.718	3.014	9.65	0.394	70.9	2.4	13.3	0.270
4-3060	4-3700	0.568	191.5	4.7	4.71	1.212	118.3	0.628	1.879	282.7	554.3	0.698	3.059	9.65	0.395	68.3	4.2	12.6	0.282
4-3060	4-3720	0.594	193.2	4.7	5.36	1.214	119.6	0.642	1.892	280.1	555.5	0.676	3.107	9.69	0.396	65.8	6.2	12.0	0.293
4-3060	4-3740	0.621	194.9	4.6	6.01	1.216	121.0	0.657	1.906	277.3	556.5	0.653	3.158	9.77	0.398	63.2	8.6	11.4	0.306
4-3060	4-3760	0.649	196.5	4.4	6.67	1.217	122.5	0.673	1.920	274.4	557.4	0.628	3.212	9.90	0.400	60.7	11.1	10.9	0.318
4-3070	4-3350	0.907	171.5	-69.5	-42.53	1.254	109.8	0.632	2.301	307.7	499.3	0.846	---	49.15	0.565	128.4	13.5	36.2	0.567
4-3070	4-3370	0.684	164.2	-57.4	-28.92	1.241	108.6	0.598	2.137	309.2	504.2	0.859	---	35.90	0.531	124.2	19.2	34.9	0.451
4-3070	4-3390	0.555	164.3	-47.0	-20.62	1.231	107.7	0.573	2.031	310.1	509.0	0.867	---	27.96	0.503	120.1	21.7	33.0	0.375
4-3070	4-3410	0.478	166.0	-38.0	-15.19	1.224	107.2	0.555	1.959	310.6	513.6	0.872	---	22.88	0.481	116.1	22.0	31.5	0.322
4-3070	4-3430	0.431	168.2	-30.3	-11.39	1.218	106.9	0.542	1.911	310.8	517.9	0.875	---	19.43	0.463	112.3	20.9	30.1	0.284
4-3070	4-3450	0.403	170.5	-23.7	-8.56	1.215	106.7	0.534	1.878	310.6	522.0	0.875	---	16.97	0.448	108.5	18.9	29.0	0.256
4-3070	4-3470	0.387	172.8	-18.1	-6.37	1.212	106.8	0.529	1.856	310.2	525.8	0.874	---	15.14	0.436	104.9	16.2	27.8	0.236
4-3070	4-3490	0.380	175.1	-13.4	-4.61	1.210	106.9	0.527	1.842	309.6	529.3	0.871	---	13.74	0.427	101.4	13.2	26.5	0.222
4-3070	4-3510	0.378	177.4	-9.4	-3.15	1.209	107.2	0.527	1.834	308.7	532.6	0.867	---	12.65	0.419	98.1	10.2	25.1	0.214
4-3070	4-3530	0.381	179.6	-6.1	-1.90	1.209	107.6	0.529	1.830	307.6	535.6	0.862	---	11.79	0.413	94.9	7.5	23.6	0.210
4-3070	4-3550	0.388	181.8	-3.4	-0.82	1.209	108.1	0.533	1.831	306.3	538.4	0.855	---	11.09	0.408	91.8	5.2	22.1	0.209
4-3070	4-3570	0.397	184.0	-1.3	0.13	1.209	108.7	0.538	1.834	304.8	541.0	0.847	2.821	10.53	0.405	88.8	3.6	20.6	0.211
4-3070	4-3590	0.409	186.0	0.4	0.99	1.210	109.4	0.545	1.839	303.2	543.4	0.837	2.841	10.08	0.402	85.9	2.5	19.1	0.215
4-3070	4-3610	0.423	188.1	1.7	1.78	1.211	110.1	0.552	1.846	301.4	545.6	0.826	2.866	9.71	0.400	83.2	2.0	17.7	0.220
4-3070	4-3630	0.439	190.0	2.7	2.51	1.212	111.0	0.561	1.855	299.5	547.6	0.814	2.895	9.42	0.399	80.5	2.0	16.5	0.227
4-3070	4-3650	0.456	191.9	3.5	3.19	1.213	111.9	0.571	1.865	297.4	549.5	0.801	2.928	9.19	0.399	77.9	2.5	15.3	0.235
4-3070	4-3670	0.475	193.8	3.9	3.84	1.214	112.8	0.581	1.875	295.2	551.2	0.786	2.965	9.01	0.399	75.3	3.5	14.3	0.244
4-3070	4-3690	0.495	195.6	4.2	4.46	1.216	113.9	0.592	1.887	292.9	552.7	0.770	3.004	8.88	0.399	72.8	4.8	13.4	0.254
4-3070	4-3710	0.517	197.4	4.4	5.06	1.217	115.0	0.604	1.899	290.5	554.1	0.752	3.046	8.79	0.400	70.4	6.5	12.6	0.264
4-3070	4-3730	0.540	199.1	4.3	5.65	1.219	116.2	0.617	1.912	288.0	555.4	0.733	3.091	8.75	0.402	68.0	8.4	11.9	0.274
4-3070	4-3750	0.564	200.8	4.2	6.23	1.220	117.5	0.630	1.926	285.3	556.5	0.713	3.138	8.74	0.403	65.7	10.6	11.3	0.285
4-3070	4-3770	0.590	202.4	4.0	6.80	1.222	118.9	0.644	1.939	282.6	557.5	0.691	3.188	8.77	0.406	63.3	13.0	10.7	0.297
4-3080	4-3300	0.834	234.1	43.7	35.08	1.330	108.9	0.787	4.104	316.8	480.9	0.875	---	-28.56	0.721	138.6	25.9	-22.6	0.595
4-3080	4-3320	0.976	251.8	45.0	46.00	1.299	107.0	0.709	3.058	318.6	486.6	0.890	---	-39.17	0.658	134.6	21.5	-30.5	0.582
4-3080	4-3380	1.025	181.5	-82.9	-51.34	1.245	106.5	0.590	2.156	314.7	503.5	0.884	---	59.10	0.533	123.7	10.4	39.1	0.603
4-3080	4-3400	0.703	160.9	-67.1	-31.94	1.235	105.4	0.563	2.050	316.5	508.3	0.895	---	40.00	0.506	119.6	18.5	39.1	0.448
4-3080	4-3420	0.530	163.4	-53.6	-21.08	1.228	104.7	0.545	1.979	317.4	513.0	0.901	---	29.45	0.484	115.7	21.9	36.8	0.358
4-3080	4-3440	0.437	167.2	-42.1	-14.53	1.223	104.4	0.532	1.931	317.8	517.3	0.904	---	23.20	0.467	111.9	22.4	34.5	0.301
4-3080	4-3460	0.386	170.9	-32.3	-10.21	1.219	104.2	0.523	1.898	317.8	521.4	0.905	---	19.17	0.452	108.3	21.1	32.3	0.264
4-3080	4-3480	0.359	174.4	-24.0	-7.15	1.217	104.2	0.518	1.876	317.5	525.2	0.904	---	16.41	0.441	104.8	18.8	30.3	0.238
4-3080	4-3500	0.346	177.6	-17.3	-4.85	1.215	104.4	0.516	1.862	316.8	528.8	0.902	---	14.42	0.431	101.5	16.1	28.4	0.221
4-3080	4-3520	0.341	180.6	-11.8	-3.06	1.214	104.6	0.516	1.855	316.0	532.0	0.899	---	12.93	0.424	98.3	13.2	26.5	0.210
4-3080	4-3540	0.343	183.4	-7.4	-1.60	1.214	105.0	0.517	1.851	314.9	535.1	0.894	---	11.78	0.418	95.2	10.5	24.6	0.204
4-3080	4-3560	0.349	186.0	-4.0	-0.38	1.214	105.5	0.520	1.852	313.7	537.9	0.888	---	10.88	0.413	92.3	8.2	22.7	0.202
4-3080	4-3580	0.358	188.5	-1.4	0.65	1.214	106.0	0.525	1.855	312.3	540.5	0.881	2.828	10.16	0.410	89.4	6.5	20.9	0.202
4-3080	4-3600	0.369	190.9	0.7	1.56	1.215	106.7	0.530	1.860	310.7	542.9	0.873	2.846	9.58	0.407	86.7	5.3	19.3	0.205
4-3080	4-3620	0.382	193.2	2.2	2.37	1.216	107.4	0.537	1.867	308.9	545.1	0.864	2.870	9.11	0.406	84.1	4.7	17.7	0.210
4-3080	4-3640	0.397	195.3	3.3	3.09	1.217	108.1	0.545	1.875	307.0	547.2	0.854	2.897	8.73	0.405	81.5	4.7	16.3	0.216
4-3080	4-3660	0.413	197.4	4.0	3.76	1.218	109.0	0.553	1.885	305.0	549.1	0.843	2.928	8.41	0.404	79.1	5.1	15.1	0.223
4-3080	4-3680	0.431	199.4	4.5	4.38	1.219	109.9	0.562	1.896	302.9	550.9	0.830	2.962	8.16	0.404	76.7	5.9	14.0	0.231
4-3080	4-3700	0.450	201.3	4.7	4.96	1.220	110.9	0.572	1.907	300.7	552.5	0.816	2.998	7.96	0.405	74.4	7.2	13.1	0.239
4-3080	4-3720	0.469	203.1	4.8	5.51	1.222	111.9	0.583	1.919	298.3	554.0	0.801	3.037	7.81	0.406	72.1	8.7	12.2	0.248
4-3080	4-3740	0.490	204.9	4.7	6.04	1.223	113.0	0.594	1.932	295.9	555.3	0.785	3.079	7.69	0.407	69.9	10.5	11.5	0.257
4-3080	4-3760	0.513	206.6	4.4	6.55	1.225	114.2	0.606	1.945	293.3	556.5	0.767	3.123	7.62	0.409	67.7	12.6	10.8	0.267
4-3080	4-3780	0.536	208.3	4.1	7.05	1.226	115.4	0.618	1.959	290.7	557.6	0.748	3.169	7.57	0.411	65.5	14.9	10.2	0.277
4-3090	4-3290	0.653	215.6	34.4	20.80	1.372	108.0	0.878	7.273	321.4	476.3	0.890	---	-13.59	0.792	141.4	31.8	-10.9	0.617
4-3090	4-3310	0.645	222.2	40.2	23.71	1.330	106.2	0.774	4.002	322.8	480.3	0.903	---	-16.24	0.715	137.6	32.3	-14.5	0.538
4-3090	4-3330	0.676	231.8	45.4	27.97	1.299	104.6	0.698	3.029	324.2	486.2	0.914	---	-20.23	0.654	133.8	31.9	-19.8	0.483
4-3090	4-3350	0.762	245.7	49.0	34.76	1.277	103.3	0.641	2.576	325.7	491.9	0.923	---	-26.77	0.605	129.9	29.4	-27.2	0.457
4-3090	4-3370	0.950	264.8	48.2	46.99	1.260	102.1	0.598	2.322	327.4	497.5	0.932	---	-38.75	0.565	125.9	22.8	-36.1	0.486
4-3090	4-3390	1.336	285.7	38.4	71.49	1.248	100.8	0.565	2.165	329.8	502.8	0.942	---	-63.00	0.533	121.8	9.8	-40.2	0.625
4-3090	4-3430	0.779	145.4	-77.7	-37.67	1.232	102.3	0.536	1.994	324.1	512.6	0.925	---	46.64	0.486	115.2	16.4	42.4	0.474
4-3090	4-3450	0.519	159.1	-60.1	-21.97	1.227	101.8	0.523	1.947	325.1	517.0	0.929	---	31.18	0.469	111.5	21.5	40.2	0.350
4-3090	4-3470	0.398	167.2	-45.1	-13.67	1.223	101.6	0.514	1.915	325.3	521.1	0.931	---	23.11	0.455	108.0	22.2	36.8	0.284
4-3090	4-3490	0.341	173.4	-32.3	-8.68	1.221	101.6	0.509	1.894	325.0	524.9	0.930	---	18.36	0.444	104.6	20.8	33.5	0.245
4-3090	4-3510	0.316	178.4	-22.0	-5.37	1.219	101.8	0.506	1.880	324.5	528.5	0.929	---	15.29	0.435	101.4	18.4	30.5	0.222
4-3090	4-3530	0.307	182.6	-14.0	-3.01	1.219	102.0	0.506	1.873	323.6	531.7	0.926	---	13.17	0.428	98.3	15.6	27.7	0.207
4-3090	4-3550	0.307	186.3	-7.9	-1.22	1.218	102.4	0.507	1.870	322.6	534.8	0.922	---	11.62	0.422	95.3	13.0	25.2	0.199
4-3090	4-3570	0.312	189.6	-3.4	0.19	1.218	102.8	0.509	1.870	321.4	537.6	0.918	---	10.45	0.418	92.5	10.7	22.9	0.195
4-3090	4-3590	0.321	192.6	-0.1	1.34	1.219	103.3	0.513	1.873	319.9	540.2	0.912	2.835	9.55	0.414	89.8	9.0	20.7	0.194
4-3090	4-3610	0.332	195.4	2.3	2.30	1.219	103.9	0.518	1.879	318.4	542.6	0.905	2.852	8.84	0.412	87.2	7.8	18.8	0.196
4-3090	4-3630	0.345	198.0	4.0	3.12	1.220	104.6	0.524	1.886	316.6	544.8	0.898	2.874	8.27	0.410	84.7	7.1	17.1	0.200
4-3090	4-3650	0.359	200.4	5.1	3.85	1.221	105.3	0.531	1.895	314.8	546.9	0.889	2.900	7.81	0.409	82.3	7.0	15.6	0.205
4-3090	4-3670	0.375	202.6	5.8	4.49	1.222	106.1	0.538	1.904	312.8	548.8	0.880	2.929	7.43	0.409	80.0	7.4	14.3	0.211
4-3090	4-3690	0.391	204.7	6.2	5.07	1.223	107.0	0.546	1.915	310.7	550.6	0.869	2.961	7.12	0.409	77.7	8.2	13.1	0.218
4-3090	4-3710	0.408	206.7	6.3	5.61	1.225	107.9	0.555	1.926	308.5	552.3	0.857	2.995	6.87	0.409	75.5	9.3	12.1	0.226
4-3090	4-3730	0.426	208.7	6.2	6.10	1.226	108.8	0.564	1.938	306.2	553.8	0.845	3.032	6.66	0.410	73.4	10.8	11.2	0.234
4-3090	4-3750	0.446	210.5	6.0	6.57	1.227	109.9	0.574	1.951	303.9	555.2	0.831	3.071	6.50	0.412	71.3	12.6	10.5	0.243
4-3090	4-3770	0.466	212.3	5.6	7.01	1.229	110.9	0.585	1.964	301.4	556.5	0.816	3.112	6.37	0.413	69.3	14.5	9.8	0.252

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3090	4-3790	0.487	214.0	5.1	7.44	1.230	112.1	0.596	1.977	298.8	557.7	0.799	3.155	6.27	0.415	67.3	16.7	9.2	0.261
4-3100	4-3280	0.613	210.5	26.0	15.22	1.422	106.6	1.00076	.016	326.8	467.7	0.908	---	-7.24	0.876	143.9	33.7	-5.4	0.689
4-3100	4-3300	0.562	213.2	31.1	16.28	1.368	104.7	0.860	6.551	328.2	473.8	0.920	---	-8.09	0.781	140.3	35.1	-6.9	0.588
4-3100	4-3320	0.534	216.5	36.3	17.63	1.328	103.0	0.758	3.849	329.6	480.0	0.930	---	-9.24	0.707	136.6	36.1	-8.9	0.506
4-3100	4-3340	0.526	220.9	41.5	19.41	1.299	101.7	0.684	2.973	331.1	486.0	0.938	---	-10.82	0.648	132.8	36.5	-11.7	0.441
4-3100	4-3360	0.541	227.2	46.5	21.90	1.277	100.6	0.630	2.553	332.4	491.9	0.945	---	-13.11	0.600	129.0	36.3	-15.7	0.391
4-3100	4-3380	0.585	236.4	50.8	25.67	1.261	99.7	0.589	2.314	333.7	497.6	0.950	---	-16.69	0.562	125.1	34.9	-21.6	0.359
4-3100	4-3400	0.681	250.8	53.7	32.08	1.250	99.0	0.559	2.165	334.8	503.0	0.955	---	-22.92	0.531	121.3	31.5	-30.0	0.353
4-3100	4-3420	0.897	272.3	52.3	45.05	1.241	98.4	0.537	2.068	335.9	508.1	0.958	---	-35.71	0.506	117.5	23.8	-39.9	0.408
4-3100	4-3440	1.406	297.9	38.6	76.74	1.234	97.5	0.519	2.002	337.9	512.9	0.964	---	-67.23	0.486	113.7	10.0	-41.6	0.618
4-3100	4-3460	1.007	43.0	-81.8	-51.82	1.230	99.5	0.515	1.957	331.8	517.0	0.949	---	61.50	0.469	111.0	12.5	42.8	0.567
4-3100	4-3480	0.533	148.6	-66.5	-23.98	1.227	99.0	0.506	1.927	332.9	521.1	0.952	---	33.84	0.456	107.4	20.4	43.2	0.354
4-3100	4-3500	0.358	166.4	-46.1	-12.41	1.224	99.0	0.501	1.907	332.9	524.9	0.952	---	22.45	0.446	104.1	21.6	38.2	0.267
4-3100	4-3520	0.295	176.1	-28.8	-6.53	1.223	99.1	0.498	1.895	332.4	528.5	0.951	---	16.73	0.437	101.0	20.0	33.1	0.226
4-3100	4-3540	0.275	182.9	-15.8	-3.01	1.222	99.3	0.497	1.888	331.6	531.7	0.949	---	13.38	0.430	98.0	17.5	28.8	0.204
4-3100	4-3560	0.273	188.2	-6.7	-0.66	1.222	99.7	0.498	1.885	330.6	534.7	0.946	---	11.20	0.425	95.2	15.0	25.2	0.193
4-3100	4-3580	0.279	192.5	-0.5	1.03	1.222	100.1	0.500	1.886	329.3	537.5	0.942	---	9.68	0.421	92.5	12.7	22.1	0.188
4-3100	4-3600	0.289	196.3	3.6	2.32	1.222	100.6	0.504	1.890	327.9	540.1	0.938	2.842	8.57	0.418	89.9	11.0	19.5	0.186
4-3100	4-3620	0.301	199.5	6.3	3.33	1.223	101.2	0.508	1.896	326.3	542.5	0.933	2.859	7.73	0.416	87.5	9.8	17.3	0.188
4-3100	4-3640	0.314	202.4	8.0	4.17	1.224	101.9	0.513	1.903	324.6	544.7	0.926	2.880	7.08	0.414	85.1	9.2	15.4	0.191
4-3100	4-3660	0.327	205.1	9.0	4.87	1.225	102.5	0.519	1.912	322.7	546.8	0.919	2.904	6.56	0.413	82.8	9.1	13.8	0.196
4-3100	4-3680	0.342	207.5	9.5	5.47	1.226	103.3	0.526	1.922	320.7	548.7	0.912	2.932	6.14	0.413	80.6	9.5	12.5	0.201
4-3100	4-3700	0.357	209.8	9.6	6.00	1.227	104.1	0.533	1.933	318.7	550.5	0.903	2.962	5.80	0.413	78.5	10.2	11.4	0.208
4-3100	4-3720	0.373	211.9	9.5	6.47	1.228	105.0	0.540	1.944	316.5	552.2	0.893	2.995	5.52	0.414	76.4	11.3	10.4	0.215
4-3100	4-3740	0.389	214.0	9.1	6.90	1.230	105.9	0.549	1.956	314.3	553.7	0.883	3.029	5.29	0.415	74.4	12.8	9.5	0.222
4-3100	4-3760	0.407	215.9	8.6	7.29	1.231	106.8	0.557	1.969	311.9	555.2	0.871	3.066	5.10	0.416	72.4	14.5	8.8	0.230
4-3100	4-3780	0.425	217.7	8.0	7.65	1.232	107.8	0.567	1.982	309.5	556.6	0.859	3.105	4.95	0.418	70.5	16.4	8.2	0.238
4-3100	4-3800	0.444	219.5	7.2	8.00	1.234	108.9	0.577	1.995	307.0	557.8	0.845	3.145	4.83	0.420	68.7	18.5	7.7	0.246
4-3110	4-3270	0.621	209.0	20.4	12.49	1.487	104.8	1.169	-5.482	332.6	461.3	0.927	---	-3.60	0.975	146.1	34.8	-2.5	0.785
4-3110	4-3290	0.544	210.2	24.7	12.90	1.414	102.8	0.97435	.623	334.0	467.5	0.937	---	-3.88	0.858	142.7	36.4	-3.1	0.661
4-3110	4-3310	0.491	211.3	29.3	13.39	1.362	101.1	0.837	5.805	335.6	473.8	0.946	---	-4.22	0.768	139.2	37.7	-3.8	0.562
4-3110	4-3330	0.457	212.6	33.9	13.96	1.324	99.7	0.739	3.657	337.2	480.2	0.954	---	-4.67	0.696	135.5	38.7	-4.7	0.481
4-3110	4-3350	0.436	214.3	38.4	14.67	1.297	98.5	0.668	2.893	338.8	486.4	0.960	---	-5.25	0.639	131.7	39.3	-6.0	0.416
4-3110	4-3370	0.427	216.5	42.6	15.58	1.276	97.5	0.616	2.513	340.2	492.4	0.964	---	-6.04	0.593	127.9	39.4	-7.8	0.362
4-3110	4-3390	0.430	219.7	46.7	16.79	1.261	96.8	0.578	2.293	341.4	498.1	0.968	---	-7.14	0.557	124.1	38.9	-10.3	0.319
4-3110	4-3410	0.446	224.4	50.5	18.54	1.250	96.3	0.550	2.156	342.3	503.5	0.970	---	-8.76	0.527	120.4	37.7	-14.0	0.286
4-3110	4-3430	0.484	232.0	54.2	21.28	1.242	95.9	0.529	2.065	343.0	508.6	0.972	---	-11.39	0.503	116.7	35.5	-19.6	0.265
4-3110	4-3450	0.563	245.0	57.4	26.27	1.236	95.6	0.515	2.004	343.4	513.3	0.973	---	-16.27	0.484	113.2	31.9	-28.3	0.263
4-3110	4-3470	0.765	269.8	57.8	38.03	1.232	95.4	0.504	1.962	343.7	517.7	0.973	---	-27.93	0.469	109.7	25.2	-40.4	0.319
4-3110	4-3490	1.461	308.7	39.9	80.73	1.229	95.0	0.496	1.934	344.9	521.9	0.975	---	-70.53	0.456	106.3	12.1	-41.7	0.620
4-3110	4-3510	0.630	119.1	-73.4	-30.36	1.227	96.3	0.494	1.916	341.0	525.3	0.969	---	40.68	0.446	103.5	18.6	45.8	0.395
4-3110	4-3530	0.311	166.4	-43.1	-10.21	1.226	96.3	0.492	1.905	340.8	528.8	0.968	---	20.62	0.438	100.5	20.7	38.0	0.247
4-3110	4-3550	0.249	181.1	-17.3	-3.12	1.225	96.6	0.491	1.899	340.0	532.0	0.967	---	13.64	0.432	97.6	18.8	29.9	0.203
4-3110	4-3570	0.245	189.5	-1.9	0.40	1.225	96.9	0.492	1.898	338.9	534.9	0.965	---	10.22	0.427	94.9	16.4	24.0	0.186
4-3110	4-3590	0.254	195.3	6.6	2.51	1.225	97.4	0.494	1.900	337.6	537.7	0.962	---	8.21	0.423	92.3	14.2	19.7	0.179
4-3110	4-3610	0.266	199.8	11.3	3.93	1.226	97.9	0.497	1.904	336.1	540.2	0.958	2.849	6.90	0.420	89.8	12.5	16.5	0.178
4-3110	4-3630	0.279	203.6	13.9	4.95	1.226	98.5	0.500	1.910	334.5	542.5	0.954	2.866	5.98	0.418	87.5	11.4	14.1	0.179
4-3110	4-3650	0.292	206.8	15.2	5.73	1.227	99.1	0.505	1.918	332.7	544.7	0.950	2.886	5.31	0.417	85.2	10.9	12.2	0.182
4-3110	4-3670	0.305	209.7	15.8	6.35	1.228	99.8	0.510	1.927	330.8	546.8	0.944	2.910	4.79	0.416	83.0	10.8	10.6	0.187
4-3110	4-3690	0.318	212.3	15.8	6.86	1.229	100.5	0.516	1.937	328.9	548.7	0.938	2.936	4.39	0.416	80.9	11.2	9.4	0.192
4-3110	4-3710	0.332	214.6	15.4	7.29	1.230	101.2	0.522	1.948	326.8	550.5	0.931	2.965	4.07	0.417	78.9	12.0	8.4	0.199
4-3110	4-3730	0.346	216.9	14.7	7.65	1.232	102.1	0.529	1.960	324.7	552.2	0.924	2.996	3.81	0.417	77.0	13.1	7.6	0.205
4-3110	4-3750	0.360	219.0	13.9	7.98	1.233	102.9	0.536	1.972	322.4	553.8	0.915	3.029	3.60	0.418	75.1	14.6	6.9	0.212
4-3110	4-3770	0.375	220.9	13.0	8.27	1.234	103.8	0.544	1.985	320.1	555.2	0.906	3.064	3.43	0.420	73.3	16.3	6.3	0.219
4-3110	4-3790	0.391	222.8	11.9	8.53	1.236	104.8	0.552	1.998	317.7	556.6	0.895	3.101	3.29	0.422	71.5	18.2	5.8	0.227
4-3110	4-3810	0.407	224.6	10.8	8.77	1.237	105.8	0.560	2.011	315.3	557.9	0.884	3.139	3.17	0.424	69.7	20.3	5.4	0.235
4-3120	4-3280	0.557	208.6	20.7	11.15	1.471	100.5	1.129	-7.420	340.2	461.3	0.954	---	-1.14	0.949	144.9	37.2	-0.8	0.750
4-3120	4-3300	0.485	208.7	24.9	11.27	1.403	98.8	0.94116	.247	341.9	467.8	0.961	---	-1.21	0.838	141.5	38.7	-1.0	0.631
4-3120	4-3320	0.434	208.5	29.1	11.40	1.354	97.3	0.810	5.096	343.7	474.4	0.967	---	-1.29	0.751	138.0	39.8	-1.2	0.536
4-3120	4-3340	0.399	208.2	33.1	11.55	1.319	96.0	0.717	3.440	345.6	481.0	0.972	---	-1.39	0.682	134.3	40.7	-1.5	0.459
4-3120	4-3360	0.375	207.9	36.8	11.73	1.293	95.0	0.651	2.792	347.3	487.3	0.976	---	-1.52	0.628	130.5	41.2	-1.8	0.395
4-3120	4-3380	0.359	207.8	40.2	11.94	1.274	94.2	0.602	2.458	348.8	493.4	0.978	---	-1.69	0.584	126.7	41.1	-2.3	0.343
4-3120	4-3400	0.349	207.9	43.0	12.20	1.260	93.6	0.567	2.261	350.1	499.2	0.980	---	-1.91	0.549	123.0	40.6	-2.9	0.300
4-3120	4-3420	0.344	208.5	45.5	12.54	1.250	93.2	0.541	2.136	351.0	504.6	0.981	---	-2.20	0.521	119.3	39.5	-3.8	0.264
4-3120	4-3440	0.344	209.7	47.6	13.00	1.242	92.9	0.522	2.054	351.5	509.7	0.981	---	-2.62	0.499	115.7	37.7	-5.0	0.236
4-3120	4-3460	0.350	211.8	49.6	13.66	1.237	92.8	0.509	1.999	351.8	514.3	0.982	---	-3.25	0.481	112.2	35.4	-6.8	0.213
4-3120	4-3480	0.363	215.3	51.8	14.75	1.233	92.8	0.499	1.961	351.7	518.6	0.982	---	-4.30	0.466	108.8	32.5	-9.7	0.197
4-3120	4-3500	0.394	221.8	54.8	16.83	1.230	92.8	0.493	1.936	351.4	522.5	0.981	---	-6.34	0.454	105.6	29.1	-14.9	0.188
4-3120	4-3520	0.489	238.6	59.7	22.57	1.229	93.0	0.489	1.920	350.8	526.1	0.981	---	-12.05	0.445	102.6	25.1	-26.9	0.201
4-3120	4-3540	1.438	316.2	44.2	79.13	1.228	93.1	0.487	1.911	350.6	529.6	0.981	---	-68.57	0.438	99.6	16.3	-42.7	0.593
4-3120	4-3560	0.235	175.4	-21.1	-3.95	1.227	93.7	0.487	1.907	348.6	532.5	0.979	---	14.54	0.432	97.0	19.5	31.6	0.205
4-3120	4-3580	0.234	193.6	14.6	3.54	1.227	94.1	0.487	1.907	347.5	535.4	0.977	---	7.09	0.428	94.3	17.2	17.8	0.172
4-3120	4-3600	0.255	201.0	23.6	5.95	1.228	94.6	0.489	1.910	346.1	538.1	0.976	---	4.71	0.424	91.9	15.1	12.0	0.167
4-3120	4-3620	0.270	205.6	26.6	7.15	1.228	95.1	0.492	1.915	344.5	540.5	0.973	2.856	3.55	0.422	89.5	13.5	9.0	0.168
4-3120	4-3640	0.282	209.2	27.4	7.87	1.229	95.7	0.495	1.922	342.8	542.8	0.971	2.873	2.86	0.420	87.2	12.6	7.1	0.171
4-3120	4-3660	0.292	212.1	27.2	8.36	1.230	96.3	0.499	1.930	341.0	545.0	0.967	2.894	2.41	0.419	85.1	12.2	5.8	0.175
4-3120	4-3680	0.302	214.8	26.5	8.71	1.231	97.0	0.503	1.940	339.1	547.0	0.963	2.917	2.09	0.419	83.0	12.2	4.8	0.180
4-3120	4-3700	0.312	217.2	25.4	8.98	1.232	97.7	0.508	1.951	337.1	548.9	0.959	2.943	1.86	0.419	81.0	12.7	4.1	0.186
4-3120	4-3720	0.322	219.5	24.1	9.20	1.233	98.4	0.514	1.962	335.1	550.7	0.954	2.971	1.68	0.419	79.1	13.6	3.6	0.192
4-3120	4-3740	0.332	221.7	22.6	9.37	1.234	99.2	0.520	1.974	332.9	552.3	0.948	3.000	1.54	0.420	77.3	14.8	3.2	0.198

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

DEPARTURE PLANET= EARTH
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ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3570	4-3790	0.526	307.9	-51.9	-11.87	1.386	102.6	0.91010	0.407	333.5	475.4	0.942	---	17.10	0.763	143.4	139.6	12.5	0.619
4-3570	4-3810	0.500	310.8	-59.1	-13.81	1.349	100.9	0.811	5.030	335.5	481.0	0.951	---	18.67	0.691	140.0	140.2	15.0	0.549
4-3570	4-3830	0.493	316.7	-66.6	-16.13	1.320	99.5	0.736	3.634	337.5	486.5	0.959	---	20.62	0.633	136.5	140.3	18.2	0.492
4-3570	4-3850	0.507	329.9	-73.5	-18.96	1.298	98.3	0.679	3.006	339.5	491.9	0.966	---	23.08	0.584	132.7	139.8	22.0	0.450
4-3570	4-3870	0.543	359.2	-78.0	-22.50	1.281	97.2	0.634	2.657	341.5	497.2	0.971	---	26.27	0.545	128.9	138.5	26.5	0.421
4-3570	4-3890	0.604	38.2	-76.9	-27.08	1.268	96.2	0.600	2.440	343.3	502.3	0.976	---	30.50	0.512	124.9	136.0	31.6	0.407
4-3570	4-3910	0.699	60.4	-70.8	-33.19	1.258	95.4	0.573	2.295	345.1	507.3	0.979	---	36.27	0.486	120.9	132.0	36.8	0.412
4-3570	4-3930	0.839	69.8	-62.6	-41.62	1.250	94.6	0.553	2.195	347.1	512.0	0.982	---	44.35	0.465	116.9	126.4	41.0	0.442
4-3570	4-3950	1.037	73.6	-52.7	-53.43	1.244	93.8	0.536	2.124	349.2	516.5	0.985	---	55.83	0.448	112.8	119.7	42.8	0.503
4-3570	4-3970	1.298	74.9	-41.3	-69.58	1.239	92.8	0.523	2.072	351.9	520.9	0.988	---	71.64	0.435	108.7	113.7	40.9	0.597
4-3570	4-4010	1.324	3.2	73.5	71.27	1.233	98.2	0.521	2.007	336.1	527.2	0.962	---	-69.90	0.418	103.2	116.7	-41.5	0.576
4-3570	4-4030	1.069	326.7	72.6	55.49	1.231	97.5	0.514	1.987	337.9	530.8	0.967	---	-54.45	0.413	99.5	120.3	-45.0	0.469
4-3570	4-4050	0.874	306.3	67.3	44.00	1.229	97.1	0.509	1.974	338.8	534.2	0.969	---	-43.30	0.410	96.0	122.5	-46.1	0.388
4-3570	4-4070	0.732	297.2	61.1	35.80	1.228	97.0	0.507	1.965	339.1	537.3	0.969	---	-35.46	0.409	92.8	123.2	-45.7	0.331
4-3570	4-4090	0.630	293.1	55.1	29.84	1.228	97.1	0.506	1.960	338.9	540.3	0.969	2.950	-29.84	0.409	89.7	122.7	-44.4	0.291
4-3570	4-4110	0.556	291.2	49.5	25.36	1.228	97.2	0.506	1.957	338.4	543.1	0.968	2.947	-25.72	0.411	86.8	121.5	-42.5	0.263
4-3570	4-4130	0.501	290.7	44.1	21.89	1.228	97.5	0.507	1.958	337.6	545.8	0.966	2.949	-22.61	0.413	84.2	120.2	-40.3	0.244
4-3570	4-4150	0.460	291.0	38.9	19.10	1.228	97.9	0.508	1.960	336.5	548.3	0.964	2.956	-20.19	0.417	81.6	118.8	-37.9	0.232
4-3570	4-4170	0.429	291.8	34.0	16.82	1.228	98.3	0.511	1.963	335.3	550.6	0.961	2.966	-18.29	0.421	79.3	117.7	-35.3	0.224
4-3570	4-4190	0.407	293.1	29.2	14.89	1.229	98.8	0.514	1.969	333.8	552.9	0.957	2.981	-16.76	0.425	77.1	116.9	-32.8	0.220
4-3570	4-4210	0.391	294.7	24.6	13.24	1.229	99.4	0.518	1.975	332.2	555.0	0.952	2.998	-15.51	0.431	75.0	116.6	-30.4	0.219
4-3570	4-4230	0.381	296.6	20.2	11.80	1.230	100.0	0.522	1.982	330.5	557.1	0.947	3.017	-14.48	0.436	73.0	116.7	-28.2	0.221
4-3570	4-4250	0.375	298.8	16.0	10.51	1.231	100.7	0.527	1.990	328.6	559.0	0.941	3.040	-13.63	0.442	71.1	117.2	-26.1	0.224
4-3570	4-4270	0.373	301.1	12.1	9.35	1.232	101.5	0.533	1.999	326.5	560.8	0.934	3.064	-12.92	0.448	69.3	118.0	-24.2	0.229
4-3570	4-4290	0.376	303.5	8.4	8.29	1.233	102.4	0.539	2.009	324.3	562.5	0.926	3.091	-12.33	0.455	67.6	119.3	-22.4	0.235
4-3570	4-4310	0.381	306.1	5.1	7.31	1.234	103.3	0.546	2.018	321.9	564.2	0.917	3.120	-11.84	0.461	66.0	120.9	-20.9	0.243
4-3570	4-4330	0.389	308.8	2.0	6.38	1.235	104.2	0.553	2.029	319.4	565.7	0.906	3.152	-11.44	0.468	64.4	122.8	-19.5	0.251
4-3570	4-4350	0.401	311.5	-0.8	5.51	1.236	105.3	0.562	2.040	316.7	567.1	0.894	3.185	-11.12	0.475	62.9	124.9	-18.2	0.261
4-3570	4-4370	0.415	314.4	-3.2	4.66	1.237	106.4	0.571	2.051	313.8	568.4	0.881	3.221	-10.86	0.482	61.4	127.3	-17.1	0.271
4-3570	4-4390	0.432	317.2	-5.4	3.85	1.238	107.7	0.580	2.062	310.9	569.6	0.865	3.259	-10.67	0.489	60.0	130.0	-16.1	0.283
4-3570	4-4410	0.452	320.1	-7.2	3.04	1.239	109.0	0.591	2.074	307.7	570.6	0.848	3.300	-10.55	0.496	58.5	132.9	-15.2	0.295
4-3570	4-4430	0.474	323.0	-8.8	2.24	1.240	110.4	0.603	2.086	304.3	571.6	0.829	3.344	-10.48	0.503	57.0	136.0	-14.4	0.308
4-3570	4-4450	0.499	325.9	-10.1	1.44	1.241	111.9	0.615	2.098	300.8	572.4	0.807	3.390	-10.47	0.510	55.5	139.3	-13.7	0.323
4-3570	4-4470	0.527	328.8	-11.2	0.63	1.243	113.5	0.629	2.111	297.1	573.0	0.782	3.440	-10.52	0.517	54.0	142.8	-13.0	0.338
4-3570	4-4490	0.558	331.7	-12.1	-0.21	1.244	115.3	0.644	2.124	293.1	573.5	0.755	3.493	-10.64	0.524	52.4	146.5	-12.5	0.355
4-3580	4-3760	0.583	306.3	-40.5	-8.10	1.488	102.3	1.193	-4.944	337.5	464.0	0.953	---	13.24	0.940	148.4	139.8	8.2	0.788
4-3580	4-3780	0.516	306.2	-45.9	-9.24	1.424	100.3	1.01563	.382	339.5	469.7	0.962	---	13.94	0.834	145.4	141.0	9.6	0.681
4-3580	4-3800	0.470	306.1	-52.1	-10.49	1.377	98.6	0.886	8.510	341.6	475.4	0.970	---	14.79	0.748	142.3	141.9	11.3	0.595
4-3580	4-3820	0.443	306.5	-58.8	-11.90	1.341	97.2	0.790	4.650	343.8	481.2	0.976	---	15.80	0.679	138.8	142.6	13.4	0.525
4-3580	4-3840	0.431	308.1	-65.8	-13.52	1.313	95.9	0.718	3.478	345.9	486.9	0.981	---	17.02	0.622	135.3	142.9	15.9	0.468
4-3580	4-3860	0.433	312.5	-72.7	-15.39	1.292	94.8	0.663	2.923	348.0	492.5	0.985	---	18.51	0.576	131.5	142.8	18.9	0.422
4-3580	4-3880	0.449	324.8	-79.1	-17.61	1.276	93.9	0.621	2.607	349.9	498.0	0.988	---	20.36	0.538	127.7	142.1	22.5	0.386
4-3580	4-3900	0.480	1.8	-83.3	-20.31	1.264	93.1	0.589	2.408	351.7	503.2	0.990	---	22.69	0.507	123.7	140.8	26.7	0.362
4-3580	4-3920	0.527	53.0	-81.5	-23.66	1.254	92.4	0.564	2.275	353.3	508.1	0.991	---	25.69	0.482	119.8	138.6	31.4	0.348
4-3580	4-3940	0.594	73.4	-75.9	-27.96	1.247	91.9	0.545	2.182	354.7	512.8	0.992	---	29.63	0.462	115.8	135.4	36.3	0.348
4-3580	4-3960	0.689	80.5	-69.1	-33.64	1.241	91.4	0.531	2.115	356.1	517.3	0.993	---	34.96	0.446	111.8	131.1	40.7	0.364
4-3580	4-3980	0.822	83.3	-61.3	-41.40	1.236	90.9	0.519	2.067	357.4	521.6	0.993	---	42.37	0.434	107.9	125.9	44.0	0.401
4-3580	4-4000	1.007	84.3	-52.3	-52.25	1.233	90.4	0.511	2.032	359.0	525.6	0.994	---	52.88	0.425	104.1	120.6	45.0	0.465
4-3580	4-4020	1.252	84.6	-41.7	-67.23	1.231	89.7	0.505	2.007	1.0	169.5	---	---	67.51	0.419	100.3	116.6	42.8	0.560
4-3580	4-4060	1.359	27.6	78.8	74.02	1.228	95.5	0.504	1.977	343.4	534.4	0.980	---	-74.43	0.412	95.6	119.1	-41.0	0.602
4-3580	4-4080	1.090	326.6	79.1	57.20	1.227	94.9	0.501	1.969	345.2	537.7	0.983	---	-57.96	0.412	92.3	121.6	-45.3	0.491
4-3580	4-4100	0.878	300.1	72.1	44.70	1.226	94.7	0.499	1.965	345.9	540.7	0.984	2.947	-45.81	0.412	89.3	122.9	-46.9	0.405
4-3580	4-4120	0.724	292.2	64.7	35.77	1.226	94.7	0.499	1.964	345.9	543.6	0.984	2.944	-37.23	0.414	86.4	123.0	-46.7	0.343
4-3580	4-4140	0.613	289.5	57.8	29.31	1.226	94.9	0.500	1.965	345.4	546.2	0.983	2.947	-31.13	0.417	83.8	122.2	-45.3	0.302
4-3580	4-4160	0.532	289.0	51.3	24.48	1.227	95.1	0.501	1.968	344.6	548.8	0.982	2.954	-26.67	0.421	81.4	121.2	-43.1	0.273
4-3580	4-4180	0.473	289.6	45.2	20.77	1.227	95.5	0.503	1.972	343.4	551.1	0.980	2.964	-23.33	0.425	79.1	120.2	-40.5	0.254
4-3580	4-4200	0.430	290.9	39.4	17.81	1.228	96.0	0.506	1.978	342.1	553.4	0.978	2.978	-20.75	0.430	77.0	119.5	-37.8	0.242
4-3580	4-4220	0.398	292.8	33.7	15.39	1.228	96.5	0.509	1.985	340.6	555.5	0.975	2.995	-18.73	0.435	75.0	119.1	-35.0	0.235
4-3580	4-4240	0.375	295.0	28.3	13.37	1.229	97.1	0.513	1.992	338.9	557.6	0.971	3.014	-17.11	0.441	73.2	119.1	-32.4	0.232
4-3580	4-4260	0.359	297.5	23.1	11.64	1.230	97.8	0.517	2.001	337.0	559.5	0.967	3.035	-15.79	0.447	71.4	119.5	-29.8	0.232
4-3580	4-4280	0.349	300.2	18.2	10.13	1.231	98.5	0.522	2.010	334.9	561.4	0.962	3.058	-14.72	0.453	69.7	120.3	-27.5	0.234
4-3580	4-4300	0.345	303.2	13.6	8.79	1.232	99.3	0.527	2.020	332.8	563.1	0.956	3.084	-13.83	0.460	68.1	121.5	-25.4	0.237
4-3580	4-4320	0.345	306.3	9.3	7.59	1.233	100.2	0.533	2.030	330.4	564.8	0.949	3.111	-13.09	0.467	66.6	123.1	-23.5	0.243
4-3580	4-4340	0.349	309.5	5.4	6.48	1.234	101.1	0.539	2.041	327.9	566.3	0.941	3.140	-12.48	0.473	65.2	124.9	-21.8	0.249
4-3580	4-4360	0.356	312.8	1.9	5.46	1.235	102.1	0.546	2.051	325.3	567.8	0.931	3.172	-11.98	0.480	63.8	127.0	-20.3	0.257
4-3580	4-4380	0.367	316.2	-1.1	4.51	1.236	103.2	0.554	2.063	322.5	569.2	0.921	3.205	-11.57	0.487	62.4	129.4	-19.0	0.266
4-3580	4-4400	0.381	319.6	-3.8	3.60	1.237	104.3	0.562	2.074	319.6	570.4	0.908	3.240	-11.24	0.494	61.1	132.0	-17.8	0.276
4-3580	4-4420	0.398	322.9	-6.0	2.72	1.238	105.5	0.571	2.086	316.5	571.6	0.894	3.278	-10.98	0.501	59.8	134.9	-16.7	0.287
4-3580	4-4440	0.418	326.3	-7.9	1.88	1.239	106.9	0.581	2.099	313.2	572.6	0.879	3.318	-10.79	0.508	58.5	137.9	-15.8	0.298
4-3580	4-4460	0.440	329.6	-9.4	1.04	1.240	108.3	0.592	2.111	309.8	573.5	0.861	3.361	-10.67	0.515	57.1	141.2	-14.9	0.311
4-3580	4-4480	0.465	332.8	-10.6	0.21	1.242	109.8	0.604	2.124	306.1	574.3	0.840	3.407	-10.61	0.522	55.8	144.6	-14.1	0.325
4-3580	4-4500	0.493	336.0	-11.6	-0.63	1.243	111.4	0.618	2.136	302.3	574.9	0.817	3.456	-10.62	0.528	54.4	148.2	-13.5	0.340
4-3590	4-3750	0.614	305.8	-37.2	-6.86	1.554	99.6	1.397	-2.450	343.6	458.4	0.973	---	11.50	1.044	150.1	140.6	6.7	0.886
4-3590	4-3770	0.528	304.7	-42.0	-7.72	1.471	97.7	1.154	-6.375	345.6	464.2	0.980	---	11.88	0.915	147.3	141.8	7.7	0.757
4-3590	4-3790	0.467	303.1	-47.5	-8.64	1.410	96.0	0.98255	.224	347.9	470.1	0.986	---	12.34	0.813	144.3	142.9	8.9	0.654
4-3590	4-3810	0.426	301.1	-53.4	-9.62	1.365	94.5	0.858	6.968	350.3	476.1	0.990	---	12.90	0.730	141.1	143.8	10.4	0.570
4-3590	4-3830	0.401	298.8	-59.7	-10.70	1.331	93.2	0.766	4.253	352.6	482.1	0.993	---	13.56	0.663	137.6	144.5	12.1	0.501
4-3590	4-3850	0.389	296.2	-65.9	-11.90	1.305	92.1	0.698	3.298	354.9	488.1	0.995	---	14.35	0.609	134.0	144.8	14.1	0.445
4-3590	4-3870	0.387	293.6	-72.1	-13.24	1.286	91.1	0.647	2.822	357.1	493.8	0.996	---	15.29	0.565	130.2	144.8	16.6	0.398
4-3590	4-3890	0.395	290.9	-77.9	-14.76	1.270	90.4	0.608	2.543	359.1	499.3	0.997	---	16.44	0.528	126.3	144.3	19.5	0.361

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3590	4-3910	0.412	288.7	-83.6	-16.53	1.259	89.7	0.579	2.365	0.8	144.6	---	---	17.83	0.499	122.4	143.4	22.9	0.332
4-3590	4-3930	0.438	293.0	-89.0	-18.62	1.250	89.2	0.556	2.244	2.3	149.5	---	---	19.55	0.476	118.4	141.8	26.8	0.311
4-3590	4-3950	0.474	100.3	-85.6	-21.15	1.243	88.8	0.539	2.160	3.5	154.2	---	---	21.72	0.457	114.5	139.6	31.0	0.299
4-3590	4-3970	0.524	99.1	-80.2	-24.27	1.237	88.5	0.526	2.100	4.5	158.6	---	---	24.49	0.442	110.6	136.7	35.5	0.296
4-3590	4-3990	0.590	97.5	-74.5	-28.27	1.233	88.2	0.516	2.056	5.3	162.8	---	---	28.14	0.431	106.8	133.1	39.8	0.304
4-3590	4-4010	0.680	96.1	-68.3	-33.53	1.230	88.0	0.509	2.025	6.0	166.7	---	---	33.05	0.423	103.1	129.0	43.4	0.327
4-3590	4-4030	0.804	95.0	-61.3	-40.71	1.228	87.7	0.503	2.002	6.7	170.3	---	---	39.89	0.418	99.5	124.9	45.9	0.368
4-3590	4-4050	0.977	94.2	-53.0	-50.80	1.226	87.5	0.500	1.987	7.6	173.8	---	---	49.64	0.414	96.1	121.5	46.4	0.434
4-3590	4-4070	1.212	93.7	-42.9	-65.01	1.225	87.0	0.498	1.977	8.9	177.2	---	---	63.51	0.413	92.7	119.5	44.2	0.529
4-3590	4-4090	1.495	93.7	-31.0	-83.68	1.225	86.3	0.497	1.970	11.1	180.5	---	2.950	81.83	0.413	89.5	119.4	39.0	0.649
4-3590	4-4110	1.380	68.8	82.2	75.74	1.224	93.2	0.496	1.968	350.5	541.1	0.992	2.943	-77.93	0.414	88.9	123.1	-40.3	0.626
4-3590	4-4130	1.094	305.9	84.2	57.69	1.224	92.6	0.495	1.967	352.1	544.1	0.993	2.941	-60.22	0.416	86.0	124.6	-45.1	0.509
4-3590	4-4150	0.865	286.6	74.5	44.19	1.224	92.5	0.495	1.969	352.5	546.8	0.994	2.945	-47.07	0.420	83.4	124.8	-47.1	0.417
4-3590	4-4170	0.699	284.4	65.7	34.62	1.225	92.6	0.496	1.973	352.2	549.4	0.994	2.953	-37.86	0.424	81.0	124.2	-46.8	0.352
4-3590	4-4190	0.581	284.8	57.9	27.78	1.225	92.8	0.498	1.978	351.4	551.8	0.993	2.964	-31.38	0.428	78.8	123.3	-45.0	0.309
4-3590	4-4210	0.497	286.4	50.8	22.74	1.226	93.2	0.500	1.985	350.3	554.0	0.992	2.978	-26.70	0.433	76.7	122.4	-42.5	0.281
4-3590	4-4230	0.436	288.5	44.0	18.89	1.227	93.7	0.503	1.992	348.9	556.2	0.990	2.994	-23.23	0.439	74.8	121.8	-39.6	0.262
4-3590	4-4250	0.392	291.1	37.4	15.86	1.228	94.3	0.506	2.000	347.2	558.2	0.988	3.013	-20.58	0.445	73.1	121.6	-36.6	0.251
4-3590	4-4270	0.361	294.1	31.1	13.39	1.229	94.9	0.509	2.009	345.4	560.1	0.986	3.033	-18.50	0.451	71.4	121.9	-33.6	0.245
4-3590	4-4290	0.339	297.4	25.1	11.34	1.230	95.6	0.513	2.019	343.4	562.0	0.982	3.056	-16.86	0.458	69.9	122.6	-30.9	0.243
4-3590	4-4310	0.326	300.9	19.3	9.59	1.231	96.4	0.518	2.029	341.2	563.7	0.979	3.080	-15.53	0.464	68.4	123.7	-28.4	0.243
4-3590	4-4330	0.318	304.7	14.0	8.07	1.232	97.2	0.523	2.040	338.9	565.4	0.974	3.106	-14.44	0.471	67.0	125.2	-26.1	0.246
4-3590	4-4350	0.316	308.6	9.1	6.72	1.233	98.1	0.528	2.051	336.5	567.0	0.968	3.134	-13.55	0.478	65.6	127.0	-24.0	0.250
4-3590	4-4370	0.319	312.6	4.7	5.51	1.234	99.0	0.534	2.062	333.9	568.5	0.961	3.163	-12.81	0.485	64.4	129.1	-22.2	0.256
4-3590	4-4390	0.326	316.6	0.8	4.41	1.235	100.1	0.540	2.074	331.1	569.9	0.953	3.194	-12.21	0.492	63.1	131.4	-20.6	0.263
4-3590	4-4410	0.336	320.7	-2.4	3.39	1.236	101.1	0.548	2.086	328.2	571.2	0.944	3.228	-11.71	0.499	61.9	134.0	-19.2	0.272
4-3590	4-4430	0.350	324.7	-5.2	2.43	1.237	102.3	0.555	2.098	325.1	572.4	0.933	3.263	-11.31	0.506	60.7	136.8	-17.9	0.281
4-3590	4-4450	0.367	328.6	-7.4	1.52	1.238	103.5	0.564	2.110	321.9	573.6	0.920	3.300	-10.99	0.513	59.5	139.8	-16.8	0.291
4-3590	4-4470	0.387	332.5	-9.2	0.66	1.239	104.9	0.573	2.123	318.5	574.6	0.906	3.340	-10.74	0.519	58.4	143.0	-15.8	0.302
4-3590	4-4490	0.410	336.2	-10.6	-0.21	1.240	106.3	0.584	2.135	315.0	575.4	0.889	3.382	-10.57	0.526	57.2	146.4	-14.9	0.314
4-3590	4-4510	0.435	339.9	-11.6	-1.05	1.242	107.8	0.595	2.148	311.3	576.2	0.870	3.427	-10.46	0.533	55.9	150.0	-14.2	0.328
4-3600	4-3760	0.562	302.6	-39.3	-6.80	1.530	94.5	1.337	-2.949	352.1	459.0	0.994	---	10.37	1.010	149.1	142.4	6.3	0.848
4-3600	4-3780	0.485	299.9	-44.2	-7.52	1.451	92.9	1.105	-9.470	354.5	465.1	0.997	---	10.61	0.886	146.3	143.5	7.2	0.724
4-3600	4-3800	0.432	296.3	-49.4	-8.28	1.394	91.4	0.943	17.548	357.0	471.3	0.999	---	10.90	0.788	143.2	144.5	8.2	0.625
4-3600	4-3820	0.397	291.8	-54.8	-9.08	1.352	90.1	0.826	5.760	359.7	477.6	0.999	---	11.25	0.709	139.9	145.3	9.4	0.544
4-3600	4-3840	0.376	286.3	-60.1	-9.94	1.320	89.0	0.741	3.864	2.3	123.9	---	---	11.67	0.645	136.4	145.8	10.9	0.477
4-3600	4-3860	0.366	280.0	-65.1	-10.86	1.296	88.1	0.679	3.105	4.7	129.9	---	---	12.18	0.593	132.7	146.1	12.6	0.422
4-3600	4-3880	0.364	272.6	-69.6	-11.86	1.277	87.3	0.632	2.707	7.0	135.8	---	---	12.78	0.551	128.8	146.0	14.6	0.376
4-3600	4-3900	0.368	263.8	-73.6	-12.97	1.263	86.7	0.597	2.467	8.9	141.4	---	---	13.51	0.517	124.9	145.5	17.0	0.339
4-3600	4-3920	0.378	252.7	-77.2	-14.21	1.252	86.2	0.570	2.311	10.6	146.6	---	---	14.37	0.489	120.9	144.6	19.7	0.308
4-3600	4-3940	0.394	237.1	-80.3	-15.62	1.244	85.8	0.550	2.205	11.9	151.5	---	---	15.42	0.467	116.9	143.2	22.9	0.285
4-3600	4-3960	0.415	212.9	-82.6	-17.25	1.238	85.5	0.535	2.130	13.0	156.1	---	---	16.69	0.450	113.0	141.3	26.4	0.268
4-3600	4-3980	0.442	178.4	-83.2	-19.18	1.233	85.3	0.524	2.077	13.8	160.4	---	---	18.27	0.437	109.1	138.9	30.2	0.257
4-3600	4-4000	0.478	147.0	-81.6	-21.50	1.229	85.2	0.515	2.039	14.3	164.4	---	---	20.25	0.427	105.3	136.0	34.1	0.254
4-3600	4-4020	0.524	127.6	-78.4	-24.39	1.226	85.1	0.509	2.012	14.6	168.2	---	---	22.79	0.420	101.7	132.7	38.0	0.259
4-3600	4-4040	0.586	116.5	-74.0	-28.06	1.225	85.1	0.504	1.993	14.7	171.7	---	---	26.13	0.415	98.3	129.4	41.6	0.273
4-3600	4-4060	0.668	109.8	-68.8	-32.92	1.223	85.1	0.501	1.980	14.8	175.0	---	---	30.66	0.413	95.0	126.2	44.6	0.299
4-3600	4-4080	0.783	105.7	-62.5	-39.58	1.222	85.1	0.499	1.972	14.8	178.1	---	---	37.00	0.412	91.9	123.7	46.6	0.342
4-3600	4-4100	0.946	103.4	-54.6	-49.08	1.222	85.0	0.498	1.968	15.0	181.1	---	2.947	46.16	0.413	88.9	122.3	47.0	0.407
4-3600	4-4120	1.174	102.3	-44.8	-62.83	1.222	84.8	0.498	1.966	15.6	184.0	---	2.946	59.59	0.415	86.0	122.5	45.2	0.503
4-3600	4-4140	1.463	102.3	-32.7	-81.77	1.222	84.3	0.499	1.968	17.0	186.9	---	2.950	78.19	0.418	83.2	124.3	40.1	0.630
4-3600	4-4160	1.385	120.6	81.6	76.32	1.222	90.9	0.493	1.971	357.3	547.3	0.999	2.943	-80.23	0.422	83.0	128.2	-39.6	0.646
4-3600	4-4180	1.074	250.1	84.0	56.71	1.223	90.4	0.494	1.976	358.6	550.0	0.999	2.952	-60.95	0.426	80.5	128.6	-44.9	0.520
4-3600	4-4200	0.828	271.6	73.3	42.22	1.223	90.4	0.496	1.982	358.8	552.5	0.999	2.964	-46.80	0.431	78.3	127.8	-46.8	0.422
4-3600	4-4220	0.654	277.2	63.8	32.19	1.224	90.6	0.498	1.989	358.1	554.7	0.999	2.979	-37.12	0.436	76.3	126.5	-46.1	0.355
4-3600	4-4240	0.534	281.1	55.3	25.18	1.225	91.0	0.500	1.997	357.0	556.9	0.999	2.996	-30.46	0.442	74.5	125.4	-43.8	0.312
4-3600	4-4260	0.450	284.7	47.5	20.10	1.226	91.5	0.502	2.006	355.5	558.9	0.998	3.014	-25.73	0.448	72.8	124.7	-40.8	0.285
4-3600	4-4280	0.391	288.4	39.9	16.26	1.227	92.1	0.505	2.016	353.7	560.8	0.997	3.035	-22.26	0.455	71.2	124.6	-37.5	0.268
4-3600	4-4300	0.350	292.4	32.6	13.26	1.228	92.8	0.508	2.026	351.8	562.7	0.996	3.057	-19.63	0.462	69.7	125.0	-34.3	0.258
4-3600	4-4320	0.322	296.6	25.6	10.85	1.229	93.5	0.512	2.037	349.7	564.4	0.994	3.080	-17.60	0.468	68.4	125.9	-31.3	0.254
4-3600	4-4340	0.304	301.0	19.0	8.85	1.230	94.3	0.516	2.048	347.4	566.1	0.991	3.105	-15.99	0.475	67.1	127.3	-28.5	0.252
4-3600	4-4360	0.294	305.7	12.9	7.15	1.231	95.1	0.520	2.060	344.9	567.7	0.988	3.131	-14.71	0.482	65.8	129.0	-26.1	0.254
4-3600	4-4380	0.290	310.4	7.3	5.67	1.232	96.1	0.525	2.071	342.3	569.2	0.983	3.159	-13.66	0.489	64.7	131.0	-23.9	0.258
4-3600	4-4400	0.292	315.3	2.5	4.37	1.233	97.0	0.531	2.083	339.6	570.7	0.978	3.189	-12.81	0.496	63.5	133.3	-22.0	0.263
4-3600	4-4420	0.299	320.2	-1.6	3.20	1.235	98.1	0.537	2.096	336.7	572.0	0.971	3.220	-12.10	0.503	62.4	135.9	-20.3	0.269
4-3600	4-4440	0.309	325.1	-5.0	2.14	1.236	99.2	0.543	2.108	333.7	573.3	0.963	3.253	-11.53	0.510	61.4	138.7	-18.8	0.277
4-3600	4-4460	0.323	329.8	-7.7	1.15	1.237	100.4	0.550	2.121	330.5	574.4	0.954	3.288	-11.06	0.517	60.3	141.6	-17.6	0.286
4-3600	4-4480	0.341	334.4	-9.8	0.23	1.238	101.6	0.558	2.133	327.2	575.5	0.942	3.325	-10.69	0.524	59.3	144.8	-16.4	0.295
4-3600	4-4500	0.361	338.8	-11.3	-0.65	1.239	103.0	0.567	2.146	323.7	576.5	0.929	3.364	-10.40	0.530	58.2	148.2	-15.4	0.306
4-3600	4-4520	0.384	343.0	-12.3	-1.50	1.240	104.4	0.577	2.159	320.0	577.3	0.914	3.405	-10.18	0.537	57.1	151.7	-14.5	0.318
4-3610	4-3750	0.624	299.7	-37.2	-6.25	1.606	90.6	1.584	-1.716	359.0	454.2	1.002	---	9.17	1.125	150.8	142.8	5.2	0.959
4-3610	4-3770	0.526	296.1	-41.5	-6.86	1.503	89.2	1.265	-3.780	1.4	100.4	---	---	9.25	0.972	148.2	143.8	5.8	0.808
4-3610	4-3790	0.460	291.4	-46.1	-7.48	1.430	87.9	1.050	20.106	4.2	106.8	---	---	9.37	0.853	145.3	144.8	6.6	0.689
4-3610	4-3810	0.417	285.5	-50.6	-8.12	1.377	86.6	0.900	10.000	7.1	113.4	---	---	9.53	0.759	142.1	145.6	7.5	0.594
4-3610	4-3830	0.389	278.8	-54.8	-8.78	1.337	85.6	0.794	4.824	10.0	120.0	---	---	9.73	0.684	138.7	146.2	8.5	0.517
4-3610	4-3850	0.373	271.5	-58.5	-9.46	1.308	84.7	0.717	3.502	12.8	126.5	---	---	9.99	0.623	135.1	146.6	9.7	0.453
4-3610	4-3870	0.365	264.0	-61.6	-10.19	1.285	83.9	0.660	2.910	15.3	132.7	---	---	10.30	0.574	131.3	146.7	11.1	0.400
4-3610	4-3890	0.363	256.5	-64.3	-10.96	1.268	83.3	0.619	2.584	17.6	138.6	---	---	10.68	0.534	127.4	146.5	12.8	0.355
4-3610	4-3910	0.365	249.1	-66.7	-11.79	1.255	82.8	0.588	2.382	19.5	144.1	---	---	11.13	0.502	123.4	145.9	14.7	0.319
4-3610	4-3930	0.372	241.8	-68.9	-12.69	1.245	82.4	0.565	2.250	21.0	149.3	---	---	11.66	0.477	119.3	144.8	16.9	0.289

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3670	4-4130	0.590	262.6	-42.6	-10.70	1.194	61.9	0.614	1.837	78.0	186.5	---	2.964	0.31	0.370	79.9	114.1	0.6	0.204
4-3670	4-4150	0.579	263.9	-43.3	-10.72	1.195	62.7	0.609	1.848	76.1	188.4	---	2.973	0.32	0.378	77.4	113.7	0.6	0.206
4-3670	4-4170	0.568	265.3	-44.0	-10.75	1.197	63.5	0.604	1.861	74.1	190.2	---	2.985	0.33	0.386	75.2	113.6	0.6	0.207
4-3670	4-4190	0.556	266.8	-44.7	-10.77	1.199	64.3	0.599	1.875	72.0	192.0	---	2.998	0.34	0.395	73.2	113.9	0.6	0.210
4-3670	4-4210	0.545	268.3	-45.4	-10.80	1.200	65.1	0.594	1.890	69.9	193.8	---	3.013	0.36	0.403	71.5	114.6	0.6	0.213
4-3670	4-4230	0.533	270.0	-46.2	-10.83	1.202	66.0	0.590	1.905	67.7	195.5	---	3.029	0.38	0.412	70.0	115.5	0.7	0.216
4-3670	4-4250	0.522	271.9	-47.0	-10.87	1.204	66.8	0.585	1.921	65.4	197.2	---	3.046	0.40	0.421	68.6	116.7	0.7	0.219
4-3670	4-4270	0.510	273.8	-47.8	-10.91	1.206	67.7	0.581	1.938	63.1	198.8	---	3.064	0.43	0.430	67.4	118.2	0.8	0.223
4-3670	4-4290	0.499	276.0	-48.7	-10.95	1.208	68.6	0.577	1.954	60.7	200.5	---	3.083	0.46	0.439	66.3	119.8	0.8	0.227
4-3670	4-4310	0.487	278.3	-49.6	-11.01	1.209	69.5	0.574	1.971	58.2	202.1	---	3.102	0.50	0.448	65.3	121.7	0.9	0.231
4-3670	4-4330	0.476	280.8	-50.6	-11.08	1.211	70.4	0.570	1.988	55.7	203.7	---	3.121	0.56	0.457	64.4	123.8	1.0	0.235
4-3670	4-4350	0.464	283.6	-51.6	-11.16	1.213	71.3	0.567	2.005	53.1	205.2	---	3.142	0.64	0.466	63.6	126.1	1.1	0.240
4-3670	4-4370	0.453	286.6	-52.7	-11.28	1.215	72.3	0.564	2.022	50.4	206.8	---	3.162	0.74	0.475	62.9	128.5	1.3	0.244
4-3670	4-4390	0.443	289.9	-54.0	-11.45	1.216	73.3	0.561	2.040	47.7	208.3	---	3.183	0.89	0.484	62.3	131.1	1.5	0.249
4-3670	4-4410	0.434	293.7	-55.4	-11.71	1.218	74.3	0.558	2.057	44.8	209.8	---	3.204	1.14	0.492	61.7	133.9	2.0	0.253
4-3670	4-4430	0.427	297.9	-57.3	-12.18	1.220	75.3	0.555	2.074	42.0	211.3	---	3.226	1.60	0.500	61.2	136.8	2.7	0.259
4-3670	4-4450	0.428	302.9	-60.8	-13.30	1.221	76.3	0.553	2.091	39.0	212.7	---	3.248	2.71	0.508	60.8	139.8	4.6	0.264
4-3670	4-4470	0.502	311.4	-75.1	-19.93	1.223	77.4	0.551	2.109	36.0	214.1	---	3.271	9.33	0.516	60.4	143.9	15.0	0.282
4-3670	4-4490	0.331	307.2	-35.5	-4.36	1.225	78.5	0.549	2.126	32.8	215.5	---	3.293	-6.25	0.524	60.0	146.6	-10.2	0.280
4-3670	4-4510	0.346	315.7	-48.4	-8.28	1.226	79.6	0.548	2.143	29.6	216.9	---	3.317	-2.34	0.531	59.6	149.6	-3.8	0.280
4-3670	4-4530	0.344	322.6	-51.1	-9.19	1.228	80.8	0.547	2.160	26.3	218.2	---	3.341	-1.44	0.539	59.3	153.0	-2.3	0.285
4-3670	4-4550	0.339	329.6	-52.0	-9.60	1.229	82.0	0.546	2.177	22.9	219.4	---	3.366	-1.04	0.546	59.0	156.6	-1.7	0.291
4-3670	4-4570	0.333	336.8	-52.0	-9.84	1.230	83.2	0.546	2.194	19.4	220.6	---	3.392	-0.82	0.552	58.7	160.2	-1.3	0.297
4-3670	4-4590	0.328	344.3	-51.3	-9.99	1.232	84.4	0.547	2.210	15.7	221.7	---	3.419	-0.68	0.558	58.4	164.0	-1.1	0.303
4-3680	4-3840	0.934	262.8	-35.2	-11.95	1.304	45.5	0.873	3.744	98.0	143.2	---	---	-2.05	0.638	150.0	137.0	-1.1	0.590
4-3680	4-3860	0.891	261.6	-35.4	-11.78	1.265	46.5	0.825	2.723	100.1	149.0	---	---	-1.93	0.554	145.4	136.0	-1.2	0.507
4-3680	4-3880	0.859	260.9	-35.6	-11.62	1.238	47.4	0.792	2.301	101.3	153.9	---	---	-1.83	0.488	140.3	134.6	-1.3	0.442
4-3680	4-3900	0.833	260.5	-35.8	-11.48	1.220	48.3	0.767	2.081	101.9	158.2	---	---	-1.75	0.438	134.7	133.0	-1.4	0.390
4-3680	4-3920	0.811	260.5	-36.0	-11.35	1.207	49.1	0.748	1.953	101.9	161.9	---	---	-1.68	0.400	128.8	131.1	-1.5	0.349
4-3680	4-3940	0.792	260.7	-36.2	-11.23	1.198	49.9	0.733	1.874	101.5	165.2	---	---	-1.63	0.372	122.7	129.0	-1.6	0.316
4-3680	4-3960	0.775	261.1	-36.5	-11.11	1.192	50.7	0.720	1.825	100.8	168.2	---	---	-1.58	0.352	116.5	126.7	-1.7	0.290
4-3680	4-3980	0.759	261.6	-36.8	-11.01	1.186	51.5	0.709	1.795	99.8	170.9	---	---	-1.54	0.339	110.5	124.3	-1.8	0.270
4-3680	4-4000	0.745	262.3	-37.1	-10.90	1.185	52.3	0.699	1.777	98.6	173.4	---	---	-1.51	0.332	104.7	122.0	-1.9	0.255
4-3680	4-4020	0.730	263.1	-37.4	-10.80	1.184	53.1	0.690	1.768	97.3	175.7	---	---	-1.49	0.329	99.3	119.8	-2.0	0.243
4-3680	4-4040	0.716	263.9	-37.7	-10.71	1.184	54.0	0.681	1.766	95.8	177.9	---	---	-1.47	0.329	94.4	117.8	-2.1	0.235
4-3680	4-4060	0.703	264.9	-38.1	-10.61	1.184	54.8	0.673	1.769	94.1	180.0	---	2.960	-1.46	0.332	90.0	116.0	-2.1	0.229
4-3680	4-4080	0.689	265.9	-38.4	-10.52	1.185	55.6	0.666	1.775	92.4	182.0	---	2.957	-1.46	0.337	86.0	114.6	-2.2	0.225
4-3680	4-4100	0.676	267.1	-38.8	-10.42	1.186	56.5	0.659	1.784	90.5	183.9	---	2.960	-1.46	0.344	82.5	113.6	-2.2	0.223
4-3680	4-4120	0.662	268.3	-39.1	-10.32	1.188	57.3	0.652	1.796	88.6	185.8	---	2.966	-1.47	0.352	79.4	112.9	-2.3	0.223
4-3680	4-4140	0.649	269.5	-39.5	-10.23	1.190	58.2	0.645	1.808	86.6	187.6	---	2.976	-1.48	0.360	76.7	112.6	-2.3	0.223
4-3680	4-4160	0.635	270.9	-39.9	-10.12	1.191	59.1	0.639	1.823	84.5	189.3	---	2.988	-1.51	0.369	74.4	112.6	-2.4	0.224
4-3680	4-4180	0.621	272.3	-40.2	-10.02	1.193	59.9	0.633	1.838	82.4	191.0	---	3.001	-1.54	0.379	72.3	112.9	-2.5	0.226
4-3680	4-4200	0.607	273.8	-40.6	-9.90	1.195	60.8	0.627	1.854	80.2	192.7	---	3.017	-1.58	0.388	70.5	113.6	-2.5	0.228
4-3680	4-4220	0.593	275.3	-40.9	-9.78	1.197	61.7	0.621	1.871	77.9	194.3	---	3.033	-1.63	0.398	68.8	114.6	-2.6	0.231
4-3680	4-4240	0.579	277.0	-41.3	-9.65	1.199	62.6	0.616	1.888	75.6	196.0	---	3.050	-1.69	0.408	67.4	115.8	-2.7	0.233
4-3680	4-4260	0.565	278.7	-41.6	-9.51	1.201	63.6	0.611	1.905	73.2	197.6	---	3.069	-1.76	0.418	66.2	117.2	-2.9	0.237
4-3680	4-4280	0.551	280.6	-41.8	-9.35	1.203	64.5	0.605	1.923	70.8	199.2	---	3.087	-1.86	0.428	65.1	118.9	-3.0	0.240
4-3680	4-4300	0.536	282.6	-42.1	-9.18	1.205	65.5	0.600	1.941	68.3	200.8	---	3.107	-1.97	0.438	64.1	120.8	-3.2	0.244
4-3680	4-4320	0.521	284.6	-42.2	-8.97	1.207	66.4	0.596	1.959	65.8	202.3	---	3.126	-2.12	0.447	63.3	122.8	-3.4	0.247
4-3680	4-4340	0.505	286.8	-42.3	-8.73	1.209	67.4	0.591	1.978	63.2	203.9	---	3.146	-2.30	0.457	62.5	125.1	-3.7	0.251
4-3680	4-4360	0.490	289.2	-42.2	-8.44	1.211	68.4	0.586	1.996	60.5	205.4	---	3.167	-2.53	0.466	61.9	127.5	-4.1	0.255
4-3680	4-4380	0.473	291.6	-41.9	-8.07	1.213	69.4	0.582	2.015	57.8	206.9	---	3.188	-2.84	0.475	61.3	130.1	-4.6	0.259
4-3680	4-4400	0.457	294.2	-41.2	-7.60	1.215	70.4	0.578	2.033	55.0	208.4	---	3.208	-3.25	0.484	60.8	132.8	-5.2	0.264
4-3680	4-4420	0.439	296.9	-40.0	-6.95	1.217	71.4	0.574	2.051	52.2	209.9	---	3.230	-3.84	0.493	60.3	135.7	-6.1	0.269
4-3680	4-4440	0.419	299.5	-37.9	-6.00	1.219	72.5	0.571	2.070	49.3	211.3	---	3.251	-4.74	0.501	59.9	138.7	-7.5	0.274
4-3680	4-4460	0.398	301.9	-33.7	-4.43	1.220	73.6	0.568	2.088	46.3	212.8	---	3.273	-6.25	0.510	59.5	142.0	-9.8	0.281
4-3680	4-4480	0.375	303.1	-24.3	-1.33	1.222	74.7	0.565	2.106	43.2	214.2	---	3.295	-9.29	0.518	59.2	145.7	-14.2	0.292
4-3680	4-4500	0.388	298.4	3.9	7.75	1.227	75.8	0.562	2.124	40.2	215.6	---	3.318	-18.32	0.526	58.9	151.6	-25.3	0.331
4-3680	4-4540	0.609	353.9	-82.6	-27.29	1.247	78.2	0.557	2.160	33.2	218.2	---	3.363	16.85	0.540	58.5	158.1	23.6	0.333
4-3680	4-4560	0.480	342.0	-70.6	-19.14	1.228	79.4	0.555	2.178	29.9	219.5	---	3.387	8.76	0.547	58.3	159.5	13.2	0.311
4-3680	4-4580	0.432	344.6	-64.9	-16.23	1.230	80.6	0.554	2.195	26.4	220.7	---	3.412	5.91	0.554	58.1	162.7	9.0	0.310
4-3680	4-4600	0.403	349.3	-61.2	-14.73	1.231	81.9	0.554	2.213	22.8	221.9	---	3.438	4.47	0.560	57.8	166.3	6.8	0.314
4-3690	4-3850	1.044	265.5	-34.2	-14.22	1.282	38.4	0.888	3.087	113.6	151.4	---	---	-5.18	0.592	152.5	133.7	-2.4	0.587
4-3690	4-3870	0.997	265.1	-34.3	-13.72	1.246	39.8	0.853	2.413	114.4	155.9	---	---	-4.79	0.509	147.5	132.3	-2.6	0.508
4-3690	4-3890	0.959	264.9	-34.5	-13.28	1.222	41.1	0.827	2.107	114.6	159.8	---	---	-4.47	0.445	141.9	130.7	-2.8	0.445
4-3690	4-3910	0.929	265.1	-34.6	-12.90	1.205	42.3	0.806	1.942	114.3	163.1	---	---	-4.21	0.396	135.7	128.9	-2.9	0.397
4-3690	4-3930	0.903	265.5	-34.8	-12.56	1.194	43.4	0.790	1.846	113.6	166.1	---	---	-3.99	0.360	129.0	126.8	-3.1	0.358
4-3690	4-3950	0.881	266.0	-34.9	-12.25	1.186	44.5	0.775	1.787	112.6	168.8	---	---	-3.81	0.335	122.1	124.6	-3.3	0.328
4-3690	4-3970	0.860	266.7	-35.1	-11.97	1.182	45.5	0.762	1.752	111.4	171.3	---	---	-3.66	0.318	115.1	122.4	-3.5	0.304
4-3690	4-3990	0.841	267.5	-35.3	-11.70	1.179	46.5	0.751	1.731	110.0	173.6	---	---	-3.54	0.308	108.3	120.2	-3.6	0.286
4-3690	4-4010	0.824	268.4	-35.5	-11.46	1.177	47.5	0.740	1.722	108.4	175.7	---	---	-3.44	0.304	102.0	118.1	-3.7	0.272
4-3690	4-4030	0.807	269.4	-35.7	-11.22	1.177	48.5	0.730	1.719	106.7	177.7	---	---	-3.35	0.304	96.2	116.3	-3.9	0.262
4-3690	4-4050	0.790	270.4	-35.9	-11.00	1.178	49.5	0.721	1.722	105.0	179.6	---	---	-3.29	0.307	91.0	114.7	-4.0	0.255
4-3690	4-4070	0.774	271.5	-36.1	-10.78	1.178	50.4	0.712	1.729	103.1	181.5	---	2.959	-3.24	0.313	86.4	113.4	-4.0	0.250
4-3690	4-4090	0.758	272.6	-36.3	-10.57	1.180	51.4	0.703	1.739	101.1	183.2	---	2.961	-3.20	0.321	82.4	112.5	-4.1	0.247
4-3690	4-4110	0.742	273.8	-36.5	-10.36	1.182	52.4	0.695	1.751	99.1	185.0	---	2.968	-3.18	0.329	78.9	111.9	-4.2	0.245
4-3690	4-4130	0.727	275.1	-36.7	-10.15	1.183	53.3	0.687	1.765	97.0	186.7	---	2.978	-3.17	0.339	75.9	111.6	-4.3	0.244
4-3690	4-4150	0.711	276.4	-36.8	-9.93	1.186	54.3	0.679	1.780	94.8	188.3	---	2.990	-3.17	0.350	73.3	111.7	-4.3	0.244
4-3690	4-4170	0.695	277.7	-37.0	-9.72	1.188	55.3	0.672	1.797	92.6	189.9	---	3.004	-3.19	0.360	71.0	112.1	-4.4	0.245
4-3690	4-4190	0.680	279.1	-37.1	-9.50	1.190	56.3	0.665	1.814	90.4	191.6	---	3.020	-3.23	0.371	69.1	112.8	-4.5	0.247

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3690	4-4210	0.664	280.6	-37.2	-9.27	1.192	57.2	0.658	1.832	88.1	193.1	---	3.037	-3.28	0.382	67.4	113.7	-4.7	0.249
4-3690	4-4230	0.648	282.1	-37.3	-9.04	1.194	58.2	0.651	1.850	85.7	194.7	---	3.055	-3.35	0.393	66.0	115.0	-4.8	0.251
4-3690	4-4250	0.632	283.7	-37.3	-8.79	1.197	59.2	0.644	1.869	83.3	196.3	---	3.073	-3.44	0.404	64.7	116.4	-4.9	0.254
4-3690	4-4270	0.615	285.3	-37.3	-8.52	1.199	60.2	0.638	1.888	80.9	197.8	---	3.093	-3.55	0.414	63.6	118.1	-5.1	0.257
4-3690	4-4290	0.599	287.0	-37.2	-8.22	1.201	61.2	0.632	1.907	78.4	199.3	---	3.112	-3.70	0.425	62.6	119.9	-5.4	0.260
4-3690	4-4310	0.582	288.8	-37.0	-7.90	1.203	62.3	0.626	1.927	75.8	200.9	---	3.132	-3.87	0.435	61.8	122.0	-5.7	0.263
4-3690	4-4330	0.565	290.7	-36.7	-7.54	1.206	63.3	0.620	1.946	73.2	202.4	---	3.153	-4.09	0.445	61.1	124.2	-6.0	0.266
4-3690	4-4350	0.548	292.6	-36.3	-7.14	1.208	64.3	0.614	1.966	70.6	203.9	---	3.173	-4.36	0.455	60.4	126.6	-6.4	0.270
4-3690	4-4370	0.530	294.5	-35.6	-6.66	1.210	65.4	0.609	1.986	67.9	205.4	---	3.194	-4.69	0.465	59.9	129.2	-6.9	0.274
4-3690	4-4390	0.512	296.6	-34.7	-6.10	1.212	66.4	0.603	2.005	65.1	206.9	---	3.215	-5.12	0.475	59.4	131.9	-7.6	0.278
4-3690	4-4410	0.494	298.6	-33.4	-5.41	1.214	67.5	0.598	2.025	62.3	208.3	---	3.236	-5.68	0.484	59.0	134.7	-8.4	0.282
4-3690	4-4430	0.474	300.6	-31.6	-4.54	1.216	68.6	0.594	2.044	59.4	209.8	---	3.257	-6.42	0.493	58.7	137.7	-9.5	0.287
4-3690	4-4450	0.455	302.6	-28.8	-3.38	1.218	69.7	0.589	2.063	56.5	211.2	---	3.279	-7.45	0.502	58.4	140.9	-10.9	0.293
4-3690	4-4470	0.435	304.2	-24.5	-1.75	1.219	70.8	0.585	2.083	53.5	212.7	---	3.301	-8.95	0.511	58.1	144.3	-13.0	0.300
4-3690	4-4490	0.418	305.1	-17.5	0.73	1.221	71.9	0.581	2.102	50.4	214.1	---	3.323	-11.31	0.519	57.9	148.0	-16.1	0.311
4-3690	4-4510	0.413	304.1	-4.9	5.06	1.223	73.0	0.577	2.121	47.4	215.4	---	3.345	-15.51	0.527	57.7	152.5	-21.2	0.329
4-3690	4-4530	0.472	296.9	18.1	14.43	1.225	74.1	0.574	2.140	44.4	216.8	---	3.369	-24.75	0.535	57.5	159.5	-30.0	0.378
4-3690	4-4550	0.901	261.6	44.4	44.64	1.226	75.0	0.573	2.159	41.9	218.1	---	3.396	-54.83	0.542	57.2	178.2	-39.9	0.581
4-3690	4-4570	1.172	162.1	-70.0	-62.15	1.228	77.4	0.564	2.177	35.5	219.5	---	3.406	52.09	0.549	57.6	181.1	40.2	0.566
4-3690	4-4590	0.713	38.7	-84.5	-33.69	1.230	78.3	0.564	2.196	32.8	220.7	---	3.434	23.76	0.556	57.3	170.2	29.2	0.386
4-3690	4-4610	0.565	5.3	-74.9	-24.68	1.231	79.5	0.562	2.214	29.4	221.8	---	3.459	14.89	0.562	57.2	170.7	20.3	0.349
4-3700	4-3860	1.157	269.2	-33.3	-17.68	1.263	31.2	0.914	2.691	128.1	158.6	---	---	-9.50	0.550	155.9	130.3	-3.6	0.596
4-3700	4-3880	1.104	269.3	-33.4	-16.59	1.230	33.0	0.888	2.197	127.7	161.8	---	---	-8.58	0.466	150.6	128.7	-3.8	0.518
4-3700	4-3900	1.062	269.7	-33.5	-15.69	1.207	34.6	0.867	1.962	126.9	164.7	---	---	-7.85	0.403	144.4	126.9	-4.0	0.459
4-3700	4-3920	1.027	270.2	-33.6	-14.93	1.192	36.1	0.849	1.833	125.8	167.3	---	---	-7.26	0.355	137.5	125.0	-4.2	0.412
4-3700	4-3940	0.998	270.9	-33.7	-14.27	1.183	37.5	0.834	1.758	124.5	169.6	---	---	-6.78	0.321	129.9	122.9	-4.4	0.375
4-3700	4-3960	0.971	271.8	-33.8	-13.69	1.176	38.9	0.819	1.713	123.0	171.7	---	---	-6.38	0.297	121.9	120.8	-4.6	0.347
4-3700	4-3980	0.947	272.7	-33.9	-13.17	1.173	40.1	0.806	1.688	121.3	173.8	---	---	-6.06	0.282	113.9	118.7	-4.8	0.325
4-3700	4-4000	0.925	273.7	-34.0	-12.71	1.171	41.3	0.794	1.675	119.6	175.6	---	---	-5.78	0.275	106.2	116.8	-5.0	0.308
4-3700	4-4020	0.905	274.7	-34.1	-12.27	1.170	42.5	0.783	1.672	117.7	177.5	---	---	-5.55	0.274	99.0	115.1	-5.1	0.295
4-3700	4-4040	0.885	275.8	-34.2	-11.87	1.170	43.7	0.772	1.674	115.7	179.2	---	---	-5.36	0.278	92.7	113.6	-5.2	0.286
4-3700	4-4060	0.866	277.0	-34.3	-11.50	1.171	44.8	0.762	1.681	113.7	180.9	---	2.961	-5.20	0.284	87.2	112.4	-5.3	0.279
4-3700	4-4080	0.848	278.2	-34.3	-11.14	1.173	46.0	0.752	1.691	111.6	182.5	---	2.962	-5.08	0.293	82.4	111.6	-5.4	0.274
4-3700	4-4100	0.829	279.4	-34.4	-10.79	1.175	47.1	0.742	1.704	109.5	184.1	---	2.969	-4.97	0.303	78.3	111.1	-5.4	0.271
4-3700	4-4120	0.812	280.6	-34.4	-10.46	1.177	48.2	0.733	1.719	107.3	185.7	---	2.978	-4.90	0.314	74.9	110.9	-5.5	0.270
4-3700	4-4140	0.794	281.9	-34.4	-10.13	1.179	49.3	0.724	1.735	105.1	187.3	---	2.991	-4.84	0.326	72.0	111.0	-5.6	0.269
4-3700	4-4160	0.776	283.2	-34.4	-9.81	1.182	50.3	0.715	1.752	102.8	188.8	---	3.006	-4.81	0.338	69.5	111.4	-5.7	0.269
4-3700	4-4180	0.759	284.6	-34.4	-9.49	1.184	51.4	0.707	1.771	100.5	190.3	---	3.022	-4.80	0.350	67.4	112.1	-5.8	0.269
4-3700	4-4200	0.741	286.0	-34.4	-9.16	1.187	52.5	0.699	1.790	98.1	191.8	---	3.040	-4.81	0.363	65.6	113.1	-5.9	0.271
4-3700	4-4220	0.724	287.4	-34.3	-8.83	1.189	53.6	0.690	1.809	95.7	193.3	---	3.059	-4.84	0.375	64.1	114.3	-6.0	0.272
4-3700	4-4240	0.706	288.9	-34.1	-8.49	1.192	54.7	0.683	1.829	93.3	194	---	3.078	-4.89	0.387	62.8	115.8	-6.1	0.274
4-3700	4-4260	0.688	290.4	-34.0	-8.14	1.194	55.7	0.675	1.850	90.8	19 .3	---	3.098	-4.98	0.399	61.7	117.4	-6.3	0.276
4-3700	4-4280	0.671	291.9	-33.7	-7.77	1.197	56.8	0.667	1.870	88.3	197.8	---	3.118	-5.09	0.410	60.8	119.3	-6.5	0.279
4-3700	4-4300	0.653	293.5	-33.4	-7.38	1.19,	57.9	0.660	1.891	85.7	199.3	---	3.139	-5.23	0.421	60.0	121.3	-6.8	0.281
4-3700	4-4320	0.634	295.1	-32.9	-6.96	1.202	59.0	0.653	1.911	83.1	200.7	---	3.160	-5.41	0.433	59.3	123.5	-7.1	0.284
4-3700	4-4340	0.616	296.7	-32.4	-6.50	1.204	60.1	0.646	1.932	80.5	202.2	---	3.181	-5.64	0.443	58.7	125.8	-7.5	0.287
4-3700	4-4360	0.597	298.4	-31.7	-5.99	1.206	61.2	0.639	1.953	77.8	203.7	---	3.202	-5.93	0.454	58.2	128.3	-7.9	0.290
4-3700	4-4380	0.579	300.1	-30.8	-5.42	1.209	62.3	0.633	1.974	75.0	205.2	---	3.223	-6.28	0.464	57.8	131.0	-8.4	0.293
4-3700	4-4400	0.559	301.8	-29.7	-4.76	1.211	63.4	0.627	1.994	72.2	206.6	---	3.244	-6.72	0.474	57.4	133.8	-9.1	0.297
4-3700	4-4420	0.540	303.5	-28.2	-3.99	1.213	64.5	0.621	2.015	69.4	208.1	---	3.266	-7.28	0.484	57.1	136.7	-9.8	0.301
4-3700	4-4440	0.521	305.1	-26.2	-3.07	1.215	65.6	0.615	2.036	66.5	209.5	---	3.287	-7.99	0.493	56.9	139.8	-10.8	0.306
4-3700	4-4460	0.501	306.7	-23.6	-1.92	1.217	66.8	0.609	2.056	63.5	211.0	---	3.309	-8.94	0.502	56.7	143.1	-12.1	0.311
4-3700	4-4480	0.482	308.0	-20.0	-0.44	1.219	67.9	0.604	2.076	60.5	212.4	---	3.331	-10.21	0.511	56.6	146.5	-13.8	0.318
4-3700	4-4500	0.465	308.8	-14.7	1.56	1.221	69.1	0.599	2.097	57.5	213.8	---	3.352	-12.01	0.520	56.4	150.2	-16.0	0.326
4-3700	4-4520	0.455	308.7	-7.0	4.46	1.223	70.3	0.594	2.117	54.4	215.2	---	3.375	-14.72	0.528	56.3	154.3	-19.2	0.339
4-3700	4-4540	0.462	306.5	4.8	9.08	1.224	71.4	0.590	2.137	51.3	216.5	---	3.398	-19.14	0.536	56.2	159.3	-23.9	0.361
4-3700	4-4560	0.528	299.1	22.2	17.56	1.226	72.5	0.587	2.156	48.3	217.8	---	3.421	-27.42	0.543	56.2	166.2	-30.7	0.407
4-3700	4-4580	0.788	276.5	40.2	36.78	1.228	73.5	0.585	2.176	45.7	219.0	---	3.448	-46.44	0.550	56.0	179.5	-38.3	0.534
4-3700	4-4620	1.032	155.9	-79.7	-53.09	1.231	77.5	0.571	2.214	34.8	221.7	---	3.478	43.83	0.563	56.5	186.5	38.4	0.524
4-3710	4-3870	1.272	273.4	-32.5	-23.39	1.249	24.1	0.944	2.446	141.3	164.6	---	---	-16.08	0.514	160.2	127.1	-4.5	0.616
4-3710	4-3890	1.213	274.0	-32.6	-21.12	1.217	26.2	0.924	2.048	139.9	166.8	---	---	-14.03	0.429	154.7	125.4	-4.7	0.539
4-3710	4-3910	1.166	274.8	-32.6	-19.36	1.195	28.1	0.907	1.854	138.3	168.7	---	---	-12.48	0.364	148.1	123.6	-5.0	0.481
4-3710	4-3930	1.127	275.7	-32.6	-17.93	1.182	29.9	0.891	1.748	136.5	170.6	---	---	-11.28	0.316	140.4	121.7	-5.2	0.435
4-3710	4-3950	1.093	276.7	-32.6	-16.76	1.173	31.6	0.877	1.687	134.6	172.3	---	---	-10.32	0.281	131.7	119.7	-5.4	0.400
4-3710	4-3970	1.063	277.8	-32.7	-15.76	1.167	33.2	0.863	1.652	132.7	174.0	---	---	-9.55	0.258	122.4	117.7	-5.6	0.372
4-3710	4-3990	1.036	278.9	-32.7	-14.89	1.165	34.7	0.850	1.634	130.7	175.7	---	---	-8.92	0.246	112.9	115.9	-5.7	0.351
4-3710	4-4010	1.011	280.0	-32.7	-14.13	1.163	36.1	0.838	1.627	128.6	177.2	---	---	-8.40	0.241	103.9	114.3	-5.9	0.335
4-3710	4-4030	0.987	281.2	-32.7	-13.44	1.164	37.5	0.826	1.627	126.5	178.8	---	---	-7.96	0.244	95.8	113.0	-6.0	0.323
4-3710	4-4050	0.965	282.4	-32.7	-12.82	1.164	38.8	0.814	1.633	124.3	180.3	---	2.963	-7.60	0.250	88.8	111.9	-6.1	0.314
4-3710	4-4070	0.944	283.7	-32.6	-12.25	1.166	40.1	0.803	1.643	122.1	181.8	---	2.963	-7.29	0.260	82.8	111.1	-6.1	0.307
4-3710	4-4090	0.923	284.9	-32.6	-11.72	1.168	41.4	0.793	1.656	119.8	183.2	---	2.968	-7.04	0.272	77.9	110.6	-6.2	0.302
4-3710	4-4110	0.903	286.2	-32.5	-11.22	1.170	42.6	0.782	1.671	117.5	184.7	---	2.978	-6.83	0.285	73.8	110.5	-6.3	0.299
4-3710	4-4130	0.883	287.5	-32.4	-10.74	1.173	43.9	0.772	1.688	115.2	186.1	---	2.991	-6.66	0.299	70.5	110.6	-6.3	0.297
4-3710	4-4150	0.864	288.8	-32.3	-10.28	1.176	45.1	0.762	1.706	112.9	187.6	---	3.006	-6.53	0.313	67.7	111.0	-6.4	0.296
4-3710	4-4170	0.844	290.1	-32.2	-9.84	1.178	46.3	0.752	1.725	110.5	189.0	---	3.023	-6.42	0.327	65.4	111.7	-6.5	0.295
4-3710	4-4190	0.825	291.4	-32.0	-9.40	1.181	47.5	0.743	1.745	108.1	190.4	---	3.041	-6.35	0.340	63.5	112.7	-6.5	0.296
4-3710	4-4210	0.806	292.8	-31.8	-8.97	1.184	48.6	0.734	1.766	105.6	191.8	---	3.061	-6.31	0.354	61.9	113.9	-6.7	0.296
4-3710	4-4230	0.787	294.2	-31.6	-8.54	1.187	49.8	0.724	1.787	103.1	193.3	---	3.081	-6.29	0.367	60.6	115.3	-6.8	0.297
4-3710	4-4250	0.768	295.6	-31.3	-8.11	1.190	51.0	0.716	1.808	100.6	194.7	---	3.102	-6.31	0.381	59.5	116.9	-6.9	0.299
4-3710	4-4270	0.748	297.0	-30.9	-7.66	1.192	52.1	0.707	1.830	98.1	196.1	---	3.123	-6.36	0.393	58.5	118.7	-7.1	0.300

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3710	4-4290	0.729	298.4	-30.5	-7.21	1.195	53.3	0.698	1.851	95.5	197.6	---	3.145	-6.44	0.406	57.7	120.7	-7.3	0.302
4-3710	4-4310	0.710	299.9	-30.1	-6.73	1.198	54.5	0.690	1.873	92.9	199.0	---	3.166	-6.55	0.418	57.1	122.9	-7.6	0.304
4-3710	4-4330	0.690	301.3	-29.5	-6.23	1.200	55.6	0.682	1.895	90.2	200.4	---	3.188	-6.71	0.430	56.6	125.2	-7.9	0.306
4-3710	4-4350	0.671	302.8	-28.8	-5.69	1.203	56.8	0.674	1.917	87.5	201.9	---	3.210	-6.91	0.441	56.1	127.6	-8.2	0.309
4-3710	4-4370	0.651	304.3	-28.0	-5.12	1.205	58.0	0.667	1.939	84.8	203.3	---	3.231	-7.17	0.452	55.8	130.2	-8.6	0.312
4-3710	4-4390	0.631	305.8	-27.0	-4.49	1.208	59.1	0.659	1.961	82.0	204.8	---	3.253	-7.49	0.463	55.5	133.0	-9.1	0.314
4-3710	4-4410	0.611	307.3	-25.7	-3.78	1.210	60.3	0.652	1.983	79.2	206.2	---	3.275	-7.89	0.473	55.3	135.9	-9.7	0.318
4-3710	4-4430	0.591	308.8	-24.2	-2.99	1.212	61.5	0.645	2.004	76.3	207.7	---	3.297	-8.40	0.483	55.1	138.9	-10.4	0.321
4-3710	4-4450	0.571	310.2	-22.4	-2.06	1.214	62.7	0.638	2.026	73.4	209.1	---	3.318	-9.03	0.493	55.0	142.0	-11.2	0.325
4-3710	4-4470	0.551	311.5	-20.0	-0.97	1.217	63.9	0.631	2.047	70.4	210.5	---	3.340	-9.84	0.503	54.9	145.3	-12.3	0.330
4-3710	4-4490	0.532	312.6	-16.9	0.36	1.219	65.1	0.625	2.069	67.4	211.9	---	3.362	-10.90	0.512	54.8	148.8	-13.6	0.335
4-3710	4-4510	0.515	313.4	-12.9	2.03	1.221	66.3	0.619	2.090	64.3	213.3	---	3.384	-12.30	0.520	54.8	152.4	-15.3	0.342
4-3710	4-4530	0.501	313.6	-7.5	4.23	1.223	67.5	0.613	2.111	61.2	214.7	---	3.406	-14.23	0.529	54.8	156.3	-17.6	0.351
4-3710	4-4550	0.495	312.9	0.1	7.29	1.224	68.7	0.608	2.132	58.1	216.1	---	3.428	-17.02	0.537	54.8	160.7	-20.6	0.365
4-3710	4-4570	0.508	310.1	10.4	11.86	1.226	69.9	0.604	2.152	54.9	217.4	---	3.452	-21.32	0.544	54.9	165.8	-24.7	0.387
4-3710	4-4590	0.570	303.0	24.0	19.42	1.228	71.0	0.599	2.173	51.9	218.7	---	3.476	-28.62	0.551	54.9	172.6	-30.2	0.429
4-3710	4-4610	0.755	286.0	37.4	33.76	1.230	72.0	0.597	2.193	49.2	219.9	---	3.502	-42.70	0.558	54.8	183.4	-36.4	0.521
4-3720	4-3880	1.387	278.1	-31.8	-34.04	1.239	17.2	0.969	2.298	153.0	169.6	---	---	-27.64	0.488	166.1	124.5	-5.2	0.446
4-3720	4-3900	1.322	279.2	-31.7	-29.02	1.207	19.5	0.956	1.949	150.8	170.8	---	---	-22.86	0.399	159.8	122.8	-5.4	0.569
4-3720	4-3920	1.270	280.3	-31.7	-25.41	1.186	21.7	0.942	1.778	148.6	172.0	---	---	-19.51	0.331	153.1	121.0	-5.6	0.510
4-3720	4-3940	1.226	281.5	-31.6	-22.69	1.173	23.8	0.929	1.684	146.3	173.2	---	---	-17.04	0.279	144.8	119.1	-5.8	0.465
4-3720	4-3960	1.188	282.7	-31.5	-20.56	1.165	25.7	0.916	1.632	144.1	174.5	---	---	-15.17	0.243	134.9	117.3	-6.0	0.430
4-3720	4-3980	1.155	283.9	-31.5	-18.83	1.160	27.5	0.903	1.603	141.8	175.8	---	---	-13.71	0.220	123.8	115.6	-6.2	0.403
4-3720	4-4000	1.125	285.2	-31.4	-17.40	1.158	29.2	0.891	1.589	139.5	177.1	---	---	-12.55	0.208	112.4	114.1	-6.3	0.382
4-3720	4-4020	1.097	286.5	-31.3	-16.18	1.157	30.8	0.879	1.585	137.1	178.4	---	---	-11.61	0.207	101.6	112.8	-6.4	0.366
4-3720	4-4040	1.071	287.8	-31.2	-15.12	1.158	32.3	0.867	1.589	134.8	179.7	---	---	-10.83	0.212	92.1	111.7	-6.5	0.354
4-3720	4-4060	1.046	289.1	-31.1	-14.19	1.159	33.8	0.855	1.597	132.4	181.0	---	2.963	-10.19	0.223	84.3	111.0	-6.5	0.345
4-3720	4-4080	1.023	290.4	-30.9	-13.35	1.161	35.3	0.844	1.609	130.1	182.3	---	2.966	-9.66	0.236	77.9	110.5	-6.6	0.338
4-3720	4-4100	1.000	291.7	-30.8	-12.59	1.164	36.7	0.832	1.624	127.7	183.6	---	2.975	-9.21	0.251	72.9	110.4	-6.6	0.333
4-3720	4-4120	0.978	293.0	-30.6	-11.89	1.166	38.1	0.821	1.641	125.2	184.9	---	2.988	-8.84	0.267	68.8	110.5	-6.7	0.329
4-3720	4-4140	0.956	294.3	-30.4	-11.24	1.169	39.5	0.810	1.659	122.8	186.2	---	3.004	-8.53	0.283	65.6	110.9	-6.7	0.326
4-3720	4-4160	0.935	295.6	-30.2	-10.62	1.172	40.8	0.800	1.679	120.4	187.6	---	3.021	-8.27	0.299	63.0	111.6	-6.8	0.325
4-3720	4-4180	0.914	297.0	-29.9	-10.04	1.175	42.1	0.789	1.699	117.9	188.9	---	3.040	-8.06	0.315	60.9	112.5	-6.8	0.324
4-3720	4-4200	0.893	298.3	-29.6	-9.47	1.179	43.4	0.779	1.720	115.4	190.3	---	3.061	-7.90	0.330	59.3	113.7	-6.9	0.323
4-3720	4-4220	0.872	299.6	-29.3	-8.93	1.182	44.7	0.769	1.742	112.9	191.6	---	3.082	-7.77	0.345	57.9	115.1	-7.0	0.323
4-3720	4-4240	0.852	300.9	-29.0	-8.39	1.185	46.0	0.759	1.764	110.3	193.0	---	3.104	-7.69	0.360	56.8	116.6	-7.1	0.324
4-3720	4-4260	0.831	302.3	-28.6	-7.86	1.188	47.2	0.750	1.787	107.8	194.4	---	3.126	-7.64	0.374	55.8	118.4	-7.3	0.325
4-3720	4-4280	0.811	303.6	-28.1	-7.32	1.191	48.5	0.740	1.810	105.2	195.7	---	3.149	-7.62	0.388	55.1	120.3	-7.4	0.326
4-3720	4-4300	0.790	305.0	-27.6	-6.78	1.194	49.7	0.731	1.832	102.5	197.1	---	3.171	-7.65	0.401	54.5	122.4	-7.6	0.327
4-3720	4-4320	0.770	306.3	-27.0	-6.23	1.196	51.0	0.721	1.855	99.9	198.5	---	3.194	-7.71	0.414	54.0	124.7	-7.9	0.329
4-3720	4-4340	0.749	307.7	-26.3	-5.66	1.199	52.2	0.712	1.878	97.2	199.9	---	3.217	-7.82	0.426	53.7	127.1	-8.1	0.330
4-3720	4-4360	0.728	309.0	-25.6	-5.06	1.202	53.4	0.704	1.901	94.4	201.4	---	3.239	-7.97	0.438	53.4	129.6	-8.4	0.332
4-3720	4-4380	0.708	310.4	-24.7	-4.44	1.204	54.7	0.695	1.924	91.7	202.8	---	3.262	-8.17	0.450	53.2	132.3	-8.8	0.334
4-3720	4-4400	0.687	311.8	-23.6	-3.76	1.207	55.9	0.687	1.947	88.8	204.2	---	3.284	-8.44	0.461	53.0	135.1	-9.2	0.336
4-3720	4-4420	0.666	313.1	-22.4	-3.03	1.209	57.1	0.678	1.970	86.0	205.6	---	3.306	-8.78	0.472	52.9	138.0	-9.8	0.339
4-3720	4-4440	0.645	314.4	-20.9	-2.22	1.212	58.4	0.670	1.993	83.1	207.1	---	3.329	-9.20	0.482	52.9	141.1	-10.4	0.342
4-3720	4-4460	0.624	315.6	-19.2	-1.32	1.214	59.6	0.663	2.015	80.1	208.5	---	3.351	-9.74	0.493	52.9	144.3	-11.1	0.345
4-3720	4-4480	0.604	316.8	-17.1	-0.29	1.216	60.9	0.655	2.038	77.1	209.9	---	3.373	-10.41	0.502	52.9	147.6	-12.0	0.349
4-3720	4-4500	0.584	317.8	-14.5	0.92	1.219	62.1	0.648	2.060	74.1	211.3	---	3.395	-11.26	0.512	53.0	151.1	-13.1	0.353
4-3720	4-4520	0.566	318.6	-11.2	2.37	1.221	63.4	0.641	2.082	71.0	212.7	---	3.417	-12.36	0.520	53.1	154.7	-14.4	0.359
4-3720	4-4540	0.549	319.0	-7.1	4.15	1.223	64.6	0.634	2.104	67.9	214.1	---	3.439	-13.81	0.529	53.2	158.5	-16.0	0.366
4-3720	4-4560	0.537	318.8	-1.8	6.44	1.225	65.9	0.628	2.126	64.7	215.5	---	3.461	-15.76	0.537	53.3	162.6	-18.2	0.375
4-3720	4-4580	0.534	317.7	5.2	9.51	1.227	67.1	0.622	2.148	61.5	216.8	---	3.484	-18.50	0.545	53.4	167.1	-21.0	0.388
4-3720	4-4600	0.549	314.6	14.2	13.89	1.228	68.4	0.617	2.169	58.3	218.1	---	3.507	-22.55	0.552	53.5	172.2	-24.6	0.409
4-3720	4-4620	0.604	308.0	25.1	20.64	1.230	69.6	0.612	2.190	55.2	219.3	---	3.531	-28.98	0.559	53.6	178.7	-29.3	0.445
4-3720	4-4640	0.745	294.2	35.7	32.13	1.232	70.6	0.609	2.211	52.4	220.5	---	3.557	-40.14	0.565	53.7	188.0	-34.6	0.516
4-3730	4-3910	1.430	284.6	-30.8	-44.73	1.202	13.6	0.978	1.890	160.0	173.9	---	---	-39.53	0.378	165.3	120.9	-5.8	0.606
4-3730	4-3930	1.372	286.0	-30.6	-36.60	1.181	15.7	0.969	1.727	157.7	174.6	---	---	-31.68	0.305	159.1	119.1	-6.0	0.547
4-3730	4-3950	1.324	287.4	-30.5	-30.94	1.167	17.8	0.959	1.639	155.3	175.3	---	---	-26.31	0.248	150.8	117.4	-6.2	0.501
4-3730	4-3970	1.283	288.8	-30.3	-26.83	1.159	19.8	0.949	1.590	152.8	176.2	---	---	-22.49	0.208	139.9	115.8	-6.3	0.466
4-3730	4-3990	1.246	290.2	-30.2	-23.70	1.155	21.8	0.938	1.565	150.2	177.1	---	---	-19.66	0.182	126.8	114.3	-6.4	0.439
4-3730	4-4010	1.213	291.6	-30.0	-21.24	1.153	23.6	0.927	1.553	147.7	178.1	---	---	-17.50	0.171	112.6	113.0	-6.5	0.417
4-3730	4-4030	1.183	293.0	-29.8	-19.25	1.153	25.4	0.915	1.551	145.2	179.1	---	---	-15.81	0.171	99.1	112.0	-6.6	0.401
4-3730	4-4050	1.154	294.4	-29.6	-17.59	1.153	27.1	0.904	1.556	142.7	180.2	---	2.963	-14.46	0.180	87.8	111.3	-6.6	0.388
4-3730	4-4070	1.128	295.8	-29.4	-16.17	1.155	28.8	0.893	1.566	140.2	181.4	---	2.964	-13.36	0.194	78.9	110.8	-6.7	0.378
4-3730	4-4090	1.102	297.1	-29.1	-14.94	1.157	30.4	0.881	1.579	137.7	182.5	---	2.971	-12.46	0.212	72.2	110.6	-6.7	0.371
4-3730	4-4110	1.077	298.5	-28.9	-13.86	1.160	32.0	0.870	1.595	135.2	183.7	---	2.983	-11.72	0.230	67.0	110.7	-6.8	0.365
4-3730	4-4130	1.053	299.8	-28.6	-12.88	1.163	33.5	0.859	1.613	132.7	184.9	---	2.999	-11.09	0.249	63.2	111.1	-6.8	0.361
4-3730	4-4150	1.030	301.1	-28.3	-12.00	1.166	35.0	0.848	1.633	130.2	186.1	---	3.017	-10.57	0.267	60.2	111.8	-6.8	0.358
4-3730	4-4170	1.007	302.4	-28.0	-11.18	1.170	36.4	0.837	1.653	127.6	187.3	---	3.036	-10.14	0.285	57.9	112.6	-6.9	0.355
4-3730	4-4190	0.985	303.8	-27.6	-10.42	1.173	37.9	0.826	1.675	125.1	188.6	---	3.058	-9.78	0.303	56.1	113.7	-6.9	0.354
4-3730	4-4210	0.962	305.1	-27.2	-9.71	1.176	39.3	0.815	1.697	122.5	189.9	---	3.080	-9.48	0.320	54.7	115.1	-7.0	0.353
4-3730	4-4230	0.940	306.4	-26.8	-9.03	1.180	40.6	0.804	1.720	119.9	191.2	---	3.103	-9.24	0.336	53.5	116.6	-7.1	0.352
4-3730	4-4250	0.918	307.6	-26.4	-8.37	1.183	42.0	0.794	1.743	117.3	192.5	---	3.126	-9.05	0.352	52.7	118.3	-7.2	0.352
4-3730	4-4270	0.896	308.9	-25.9	-7.73	1.186	43.4	0.784	1.766	114.7	193.8	---	3.150	-8.91	0.367	52.0	120.2	-7.3	0.352
4-3730	4-4290	0.875	310.2	-25.3	-7.10	1.189	44.7	0.773	1.790	112.1	195.1	---	3.174	-8.81	0.382	51.5	122.2	-7.5	0.352
4-3730	4-4310	0.853	311.5	-24.7	-6.47	1.192	46.0	0.763	1.814	109.4	196.5	---	3.198	-8.76	0.396	51.1	124.4	-7.6	0.353
4-3730	4-4330	0.831	312.8	-24.1	-5.85	1.195	47.4	0.753	1.837	106.7	197.9	---	3.222	-8.75	0.410	50.8	126.7	-7.8	0.354
4-3730	4-4350	0.810	314.1	-23.3	-5.21	1.198	48.7	0.744	1.861	103.9	199.2	---	3.245	-8.78	0.423	50.6	129.2	-8.1	0.355
4-3730	4-4370	0.788	315.3	-22.5	-4.56	1.201	50.0	0.734	1.885	101.2	200.6	---	3.269	-8.87	0.435	50.4	131.8	-8.4	0.356

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4400	4-4620	0.801	75.0	9.4	-10.02	1.305	126.2	0.834	3.741	278.6	492.3	0.623	---	-0.70	0.708	144.5	299.3	-0.4	0.648
4-4400	4-4640	0.738	75.0	8.2	-10.11	1.265	123.9	0.762	2.708	278.9	497.5	0.644	---	-0.62	0.635	139.6	300.4	-0.5	0.559
4-4400	4-4660	0.690	75.1	7.1	-10.19	1.236	122.1	0.707	2.260	279.3	502.7	0.662	---	-0.56	0.576	134.4	301.1	-0.5	0.485
4-4400	4-4680	0.653	75.1	6.1	-10.26	1.214	120.6	0.664	2.017	279.5	507.8	0.677	---	-0.52	0.530	129.0	301.1	-0.5	0.422
4-4400	4-4700	0.625	75.2	5.3	-10.31	1.198	119.4	0.633	1.871	279.6	512.9	0.688	---	-0.48	0.494	123.4	300.4	-0.5	0.371
4-4400	4-4720	0.606	75.3	4.7	-10.36	1.186	118.6	0.609	1.777	279.6	517.8	0.695	---	-0.45	0.466	117.8	298.8	-0.6	0.329
4-4400	4-4740	0.593	75.6	4.2	-10.40	1.178	118.1	0.593	1.716	279.3	522.5	0.698	---	-0.43	0.445	112.3	296.2	-0.6	0.295
4-4400	4-4760	0.586	75.9	4.0	-10.45	1.172	117.9	0.583	1.674	278.8	527.0	0.699	---	-0.42	0.429	106.9	292.8	-0.6	0.270
4-4400	4-4780	0.585	76.2	4.0	-10.48	1.167	117.9	0.578	1.647	278.0	531.2	0.695	---	-0.40	0.418	101.6	288.8	-0.7	0.254
4-4400	4-4800	0.588	76.8	4.2	-10.52	1.165	118.2	0.577	1.629	277.0	535.2	0.689	---	-0.40	0.410	96.5	284.4	-0.7	0.245
4-4400	4-4820	0.595	77.4	4.6	-10.55	1.163	118.7	0.581	1.620	275.6	538.8	0.679	---	-0.39	0.405	91.7	280.3	-0.6	0.243
4-4400	4-4840	0.607	78.1	5.1	-10.59	1.162	119.4	0.588	1.615	273.9	542.1	0.665	2.565	-0.39	0.401	87.0	276.8	-0.6	0.248
4-4400	4-4860	0.623	79.0	5.8	-10.62	1.162	120.4	0.599	1.615	271.9	545.1	0.648	2.583	-0.39	0.400	82.5	274.2	-0.6	0.259
4-4400	4-4880	0.643	80.0	6.5	-10.66	1.163	121.6	0.613	1.618	269.6	547.7	0.627	2.610	-0.39	0.399	78.2	272.6	-0.6	0.273
4-4400	4-4900	0.667	81.2	7.4	-10.69	1.164	123.0	0.629	1.625	266.9	550.0	0.602	2.647	-0.40	0.399	74.0	272.0	-0.5	0.291
4-4400	4-4920	0.694	82.5	8.4	-10.73	1.165	124.7	0.648	1.633	264.0	551.9	0.574	2.692	-0.41	0.400	69.9	272.4	-0.5	0.311
4-4400	4-4940	0.726	83.9	9.4	-10.76	1.167	126.6	0.670	1.643	260.7	553.5	0.542	2.744	-0.42	0.402	65.8	273.5	-0.5	0.334
4-4400	4-4960	0.761	85.5	10.4	-10.80	1.169	128.7	0.694	1.655	257.1	554.8	0.507	2.804	-0.44	0.403	61.8	275.3	-0.4	0.358
4-4400	4-4980	0.801	87.2	11.4	-10.85	1.171	131.0	0.720	1.669	253.3	555.7	0.468	2.869	-0.46	0.405	57.7	277.7	-0.4	0.384
4-4400	4-5000	0.845	89.0	12.5	-10.89	1.173	133.6	0.747	1.683	249.1	556.2	0.426	2.941	-0.49	0.407	53.6	280.6	-0.4	0.411
4-4400	4-5020	0.892	91.0	13.5	-10.95	1.175	136.4	0.776	1.699	244.6	556.4	0.381	3.017	-0.52	0.409	49.4	283.9	-0.4	0.439
4-4400	4-5040	0.943	93.2	14.5	-11.01	1.178	139.5	0.805	1.716	239.8	556.3	0.334	3.098	-0.56	0.412	45.2	287.6	-0.4	0.469
4-4400	4-5060	0.998	95.4	15.4	-11.08	1.180	142.8	0.835	1.735	234.7	555.8	0.286	3.183	-0.62	0.414	40.9	291.7	-0.3	0.499
4-4400	4-5080	1.056	97.8	16.3	-11.17	1.183	146.3	0.864	1.754	229.3	555.0	0.238	3.270	-0.69	0.417	36.4	296.0	-0.3	0.529
4-4400	4-5100	1.117	100.4	17.2	-11.27	1.186	150.1	0.893	1.774	223.7	553.9	0.190	3.358	-0.78	0.420	31.9	300.6	-0.3	0.560
4-4400	4-5120	1.181	103.0	17.9	-11.41	1.189	154.1	0.919	1.795	217.8	552.4	0.145	3.445	-0.90	0.423	27.3	305.4	-0.3	0.592
4-4400	4-5140	1.246	105.7	18.5	-11.61	1.192	158.2	0.943	1.817	211.8	550.8	0.104	3.531	-1.08	0.426	22.7	310.3	-0.3	0.623
4-4410	4-4630	0.782	83.1	4.8	-13.23	1.308	124.1	0.829	3.879	283.3	490.1	0.661	---	3.04	0.716	143.7	302.6	2.0	0.643
4-4410	4-4650	0.718	82.9	3.9	-12.74	1.268	121.9	0.755	2.782	283.7	495.4	0.683	---	2.61	0.643	138.9	303.8	2.0	0.555
4-4410	4-4670	0.668	82.7	3.1	-12.37	1.239	120.0	0.697	2.312	284.1	500.7	0.701	---	2.30	0.586	133.8	304.6	2.0	0.481
4-4410	4-4690	0.630	82.6	2.4	-12.07	1.218	118.5	0.653	2.059	284.5	505.9	0.715	---	2.07	0.540	128.5	304.8	2.1	0.419
4-4410	4-4710	0.601	82.5	1.9	-11.82	1.202	117.4	0.619	1.907	284.7	511.1	0.726	---	1.89	0.505	123.2	304.2	2.2	0.367
4-4410	4-4730	0.580	82.5	1.6	-11.61	1.190	116.5	0.595	1.809	284.7	516.1	0.734	---	1.75	0.477	117.8	302.8	2.3	0.325
4-4410	4-4750	0.566	82.5	1.4	-11.43	1.181	116.0	0.577	1.745	284.6	520.9	0.738	---	1.64	0.456	112.5	300.5	2.4	0.291
4-4410	4-4770	0.557	82.7	1.4	-11.27	1.175	115.7	0.566	1.701	284.2	525.5	0.739	---	1.56	0.441	107.4	297.3	2.5	0.265
4-4410	4-4790	0.553	83.0	1.7	-11.12	1.171	115.7	0.560	1.673	283.5	529.8	0.737	---	1.49	0.429	102.4	293.4	2.5	0.247
4-4410	4-4810	0.554	83.4	2.1	-10.98	1.168	115.9	0.558	1.654	282.5	533.9	0.731	---	1.44	0.421	97.6	289.1	2.5	0.237
4-4410	4-4830	0.559	83.9	2.7	-10.85	1.166	116.3	0.560	1.643	281.3	537.6	0.723	---	1.41	0.415	93.1	284.9	2.5	0.234
4-4410	4-4850	0.568	84.6	3.4	-10.73	1.165	117.0	0.566	1.638	279.7	541.0	0.711	2.566	1.38	0.411	88.7	281.3	2.4	0.237
4-4410	4-4870	0.581	85.4	4.3	-10.61	1.165	117.8	0.575	1.638	277.8	544.1	0.696	2.579	1.37	0.409	84.5	278.4	2.3	0.245
4-4410	4-4890	0.597	86.3	5.3	-10.49	1.166	118.9	0.587	1.640	275.7	546.9	0.678	2.603	1.37	0.408	80.4	276.6	2.1	0.257
4-4410	4-4910	0.617	87.4	6.3	-10.37	1.166	120.2	0.601	1.646	273.2	549.3	0.656	2.636	1.38	0.408	76.5	275.7	2.0	0.273
4-4410	4-4930	0.641	88.7	7.4	-10.25	1.168	121.6	0.619	1.654	270.4	551.4	0.631	2.676	1.39	0.408	72.7	275.8	1.9	0.291
4-4410	4-4950	0.668	90.0	8.5	-10.13	1.169	123.3	0.638	1.663	267.4	553.2	0.602	2.724	1.42	0.409	69.0	276.6	1.7	0.311
4-4410	4-4970	0.699	91.6	9.7	-10.00	1.171	125.1	0.659	1.675	264.0	554.7	0.571	2.779	1.46	0.410	65.2	278.2	1.6	0.333
4-4410	4-4990	0.734	93.2	10.8	-9.87	1.173	127.2	0.683	1.688	260.4	555.8	0.535	2.840	1.51	0.411	61.5	280.3	1.5	0.356
4-4410	4-5010	0.772	95.0	11.9	-9.73	1.175	129.5	0.708	1.702	256.5	556.6	0.497	2.906	1.58	0.413	57.8	282.9	1.5	0.381
4-4410	4-5030	0.814	96.9	13.0	-9.57	1.177	132.0	0.735	1.717	252.4	557.1	0.455	2.978	1.67	0.414	54.0	286.0	1.4	0.406
4-4410	4-5050	0.860	99.0	14.0	-9.40	1.179	134.7	0.763	1.733	247.9	557.3	0.411	3.055	1.77	0.416	50.1	289.4	1.3	0.432
4-4410	4-5070	0.909	101.1	15.0	-9.20	1.182	137.7	0.791	1.750	243.2	557.2	0.365	3.135	1.90	0.418	46.2	293.1	1.2	0.460
4-4410	4-5090	0.962	103.4	15.9	-8.97	1.184	140.8	0.821	1.768	238.3	556.8	0.317	3.219	2.06	0.420	42.2	297.2	1.2	0.488
4-4410	4-5110	1.017	105.8	16.7	-8.71	1.187	144.2	0.850	1.787	233.1	556.0	0.269	3.306	2.27	0.422	38.0	301.5	1.1	0.516
4-4410	4-5130	1.076	108.4	17.4	-8.38	1.189	147.8	0.878	1.807	227.6	555.0	0.221	3.393	2.54	0.425	33.8	306.0	1.1	0.545
4-4410	4-5150	1.137	111.0	18.0	-7.97	1.192	151.6	0.904	1.828	221.9	553.7	0.175	3.481	2.89	0.427	29.5	310.7	1.1	0.575
4-4410	4-5170	1.199	113.7	18.6	-7.43	1.195	155.5	0.929	1.850	216.1	552.2	0.131	3.568	3.38	0.430	25.1	315.6	1.0	0.604
4-4420	4-4640	0.784	91.8	-3.5	-18.67	1.310	122.0	0.824	3.984	288.0	488.0	0.699	---	9.05	0.722	142.8	305.4	6.1	0.641
4-4420	4-4660	0.712	91.0	-3.2	-16.84	1.271	119.8	0.747	2.842	288.6	493.4	0.720	---	7.36	0.650	138.1	306.9	5.8	0.552
4-4420	4-4680	0.657	90.4	-3.2	-15.57	1.242	117.9	0.687	2.356	289.1	498.8	0.738	---	6.23	0.593	133.1	307.8	5.6	0.478
4-4420	4-4700	0.615	89.9	-3.2	-14.63	1.221	116.5	0.641	2.095	289.5	504.2	0.752	---	5.43	0.549	128.0	308.1	5.6	0.416
4-4420	4-4720	0.584	89.6	-3.2	-13.89	1.205	115.3	0.606	1.938	289.8	509.4	0.763	---	4.84	0.514	122.8	307.7	5.7	0.365
4-4420	4-4740	0.560	89.3	-3.0	-13.29	1.193	114.5	0.581	1.838	290.0	514.5	0.771	---	4.40	0.487	117.7	306.4	5.9	0.322
4-4420	4-4760	0.543	89.2	-2.8	-12.79	1.184	113.9	0.562	1.772	289.9	519.4	0.775	---	4.05	0.466	112.6	304.3	6.1	0.288
4-4420	4-4780	0.532	89.2	-2.3	-12.36	1.178	113.6	0.550	1.727	289.6	524.1	0.777	---	3.79	0.451	107.7	301.3	6.2	0.261
4-4420	4-4800	0.525	89.4	-1.7	-11.97	1.174	113.6	0.543	1.697	289.0	528.5	0.776	---	3.58	0.439	103.0	297.6	6.3	0.243
4-4420	4-4820	0.524	89.7	-0.9	-11.69	1.171	113.7	0.540	1.678	288.2	532.7	0.771	---	3.42	0.431	98.5	293.4	6.3	0.231
4-4420	4-4840	0.526	90.1	-0.0	-11.31	1.169	114.1	0.541	1.666	287.0	536.5	0.764	---	3.29	0.425	94.2	289.2	6.2	0.227
4-4420	4-4860	0.532	90.7	1.0	-11.01	1.168	114.6	0.546	1.661	285.6	540.0	0.754	---	3.20	0.420	90.0	285.5	5.9	0.228
4-4420	4-4880	0.542	91.5	2.2	-10.73	1.168	115.4	0.554	1.660	283.8	543.2	0.741	2.578	3.14	0.418	86.1	282.5	5.6	0.234
4-4420	4-4900	0.555	92.4	3.4	-10.46	1.169	116.3	0.564	1.662	281.8	546.0	0.725	2.599	3.10	0.416	82.3	280.5	5.2	0.245
4-4420	4-4920	0.572	93.5	4.7	-10.20	1.169	117.5	0.577	1.667	279.4	548.6	0.706	2.628	3.08	0.416	78.7	279.4	4.9	0.258
4-4420	4-4940	0.592	94.7	6.0	-9.94	1.170	118.8	0.592	1.674	276.8	550.8	0.684	2.665	3.09	0.415	75.1	279.2	4.5	0.274
4-4420	4-4960	0.616	96.1	7.3	-9.67	1.172	120.2	0.609	1.684	274.0	552.8	0.658	2.709	3.12	0.416	71.6	279.8	4.2	0.292
4-4420	4-4980	0.643	97.5	8.6	-9.41	1.174	121.9	0.628	1.695	270.8	554.4	0.630	2.759	3.17	0.416	68.2	281.1	3.9	0.312
4-4420	4-5000	0.673	99.2	9.8	-9.13	1.175	123.8	0.649	1.707	267.4	555.8	0.598	2.816	3.25	0.417	64.8	283.0	3.7	0.333
4-4420	4-5020	0.706	100.9	11.0	-8.84	1.177	125.8	0.672	1.720	263.8	556.8	0.564	2.877	3.35	0.418	61.4	285.4	3.5	0.354
4-4420	4-5040	0.743	102.8	12.2	-8.54	1.179	128.0	0.697	1.735	259.9	557.6	0.526	2.944	3.48	0.419	57.9	288.2	3.3	0.377
4-4420	4-5060	0.784	104.8	13.3	-8.21	1.182	130.4	0.723	1.751	255.8	558.1	0.485	3.016	3.65	0.421	54.4	291.4	3.1	0.401
4-4420	4-5080	0.828	106.9	14.3	-7.84	1.184	133.0	0.750	1.767	251.4	558.2	0.442	3.092	3.85	0.422	50.8	294.9	3.0	0.426
4-4420	4-5100	0.875	109.1	15.2	-7.44	1.186	135.8	0.778	1.784	246.8	558.1	0.397	3.171	4.11	0.424	47.2	298.7	2.8	0.451
4-4420	4-5120	0.925	111.4	16.0	-6.99	1.188	138.9	0.806	1.802	242.0	557.7	0.350	3.255	4.42	0.425	43.4	302.7	2.7	0.477

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4540	4-4800	0.367	70.1	67.2	12.17	1.231	82.2	0.519	2.011	23.1	145.1	---	---	-9.08	0.534	117.4	327.6	-13.9	0.311
4-4540	4-4820	0.374	63.6	69.7	13.15	1.221	82.0	0.497	1.920	24.2	151.1	---	---	-9.64	0.510	113.1	325.4	-16.4	0.278
4-4540	4-4840	0.384	57.0	72.3	14.27	1.215	82.0	0.482	1.862	24.8	156.6	---	---	-10.35	0.493	109.0	322.6	-19.2	0.254
4-4540	4-4860	0.398	49.2	75.0	15.57	1.210	82.1	0.472	1.825	24.8	161.5	---	---	-11.26	0.481	105.2	319.3	-22.3	0.239
4-4540	4-4880	0.417	38.3	77.8	17.13	1.208	82.3	0.464	1.803	24.3	165.9	---	---	-12.44	0.472	101.6	315.8	-25.6	0.230
4-4540	4-4900	0.443	20.4	80.1	19.04	1.206	82.7	0.460	1.791	23.5	169.8	---	---	-13.99	0.466	98.4	312.3	-29.0	0.230
4-4540	4-4920	0.479	352.3	81.0	21.48	1.206	83.0	0.457	1.787	22.3	173.4	---	---	-16.08	0.461	95.5	309.3	-32.4	0.237
4-4540	4-4940	0.531	323.6	79.1	24.76	1.206	83.5	0.456	1.787	20.9	176.6	---	---	-19.01	0.459	92.8	307.1	-36.0	0.254
4-4540	4-4960	0.607	306.1	74.4	29.40	1.206	84.0	0.455	1.792	19.4	179.6	---	---	-23.32	0.457	90.3	306.1	-39.6	0.283
4-4540	4-4980	0.728	298.2	67.3	36.51	1.207	84.4	0.456	1.800	17.8	182.3	---	2.622	-3[illegible]10	0.456	88.1	306.7	-43.1	0.334
4-4540	4-5000	0.932	295.8	57.4	48.39	1.209	84.8	0.458	1.810	16.5	184.9	---	2.640	-41.65	0.456	85.9	309.8	-45.3	0.425
4-4540	4-5020	1.277	297.2	42.9	69.51	1.210	85.0	0.461	1.822	16.0	187.3	---	2.663	-62.46	0.455	83.8	316.0	-43.2	0.586
4-4540	4-5060	0.930	59.5	-74.2	-48.41	1.214	89.8	0.463	1.851	0.7	189.9	---	2.707	56.08	0.456	81.6	320.8	44.2	0.537
4-4540	4-5080	0.619	92.5	-62.8	-30.56	1.215	90.2	0.468	1.866	359.5	551.9	0.994	2.738	38.54	0.456	79.9	316.8	43.7	0.405
4-4540	4-5100	0.446	105.8	-51.0	-20.45	1.217	90.8	0.472	1.882	357.5	553.6	0.993	2.771	28.74	0.457	78.4	314.6	39.6	0.338
4-4540	4-5120	0.348	115.0	-39.6	-14.24	1.219	91.6	0.477	1.899	355.0	555.2	0.992	2.805	22.83	0.457	76.9	314.1	34.8	0.303
4-4540	4-5140	0.292	123.2	-28.8	-10.09	1.221	92.5	0.483	1.916	352.3	556.6	0.991	2.840	18.99	0.458	75.6	314.7	30.4	0.285
4-4540	4-5160	0.261	131.1	-18.8	-7.12	1.223	93.4	0.489	1.933	349.5	558.0	0.988	2.877	16.33	0.458	74.3	316.1	26.6	0.277
4-4540	4-5180	0.248	138.7	-10.1	-4.88	1.225	94.4	0.495	1.950	346.6	559.2	0.985	2.916	14.39	0.459	73.0	317.9	23.5	0.273
4-4540	4-5200	0.245	146.1	-3.1	-3.11	1.227	95.5	0.502	1.968	343.6	560.3	0.980	2.955	12.94	0.459	71.8	320.2	21.0	0.273
4-4540	4-5220	0.250	153.1	2.3	-1.67	1.229	96.5	0.509	1.985	340.6	561.4	0.975	2.996	11.82	0.460	70.5	322.6	18.9	0.275
4-4540	4-5240	0.260	159.6	6.3	-0.47	1.230	97.6	0.517	2.003	337.5	562.4	0.968	3.038	10.93	0.461	69.3	325.3	17.1	0.278
4-4540	4-5260	0.273	165.5	8.9	0.57	1.232	98.8	0.525	2.021	334.4	563.3	0.960	3.081	10.23	0.461	68.1	328.1	15.7	0.281
4-4540	4-5280	0.289	170.9	10.7	1.47	1.234	99.9	0.533	2.038	331.2	564.2	0.951	3.126	9.66	0.462	67.0	331.1	14.4	0.286
4-4540	4-5300	0.307	175.8	11.7	2.28	1.236	101.1	0.542	2.056	328.0	564.9	0.941	3.171	9.19	0.463	65.8	334.1	13.4	0.291
4-4550	4-4670	0.593	113.4	41.4	7.43	1.543	81.5	1.352	-2.759	14.7	94.8	---	---	-6.41	1.067	146.7	328.2	-4.1	0.917
4-4550	4-4690	0.503	106.3	45.8	7.99	1.435	80.8	1.040	24.261	18.0	103.0	---	---	-6.33	0.905	142.9	329.0	-4.6	0.749
4-4550	4-4710	0.451	98.3	49.5	8.53	1.363	80.1	0.845	6.196	21.7	111.6	---	---	-6.31	0.786	138.7	329.6	-5.3	0.622
4-4550	4-4730	0.421	90.3	52.4	9.08	1.313	79.4	0.720	3.395	25.3	120.1	---	---	-6.33	0.697	134.3	329.9	-6.0	0.523
4-4550	4-4750	0.404	83.0	54.6	9.64	1.278	78.9	0.637	2.603	28.6	128.4	---	---	-6.40	0.630	129.6	329.7	-7.0	0.444
4-4550	4-4770	0.396	76.8	56.4	10.21	1.256	78.5	0.582	2.245	31.4	136.2	---	---	-6.53	0.580	124.8	329.1	-8.2	0.381
4-4550	4-4790	0.393	71.9	58.0	10.81	1.237	78.3	0.545	2.050	33.5	143.2	---	---	-6.70	0.542	120.1	327.8	-9.5	0.331
4-4550	4-4810	0.393	68.0	59.7	11.46	1.225	78.2	0.519	1.935	34.9	149.6	---	---	-6.95	0.515	115.5	325.9	-11.1	0.291
4-4550	4-4830	0.394	65.0	61.6	12.15	1.217	78.3	0.501	1.864	35.6	155.2	---	---	-7.26	0.494	111.1	323.4	-12.9	0.261
4-4550	4-4850	0.398	62.4	63.8	12.91	1.212	78.5	0.489	1.820	35.7	160.2	---	---	-7.67	0.480	107.0	320.3	-14.9	0.238
4-4550	4-4870	0.403	60.1	66.2	13.77	1.209	78.7	0.480	1.793	35.2	164.7	---	---	-8.19	0.469	103.3	316.9	-17.0	0.223
4-4550	4-4890	0.410	57.6	68.9	14.75	1.207	79.1	0.474	1.778	34.4	168.7	---	---	-8.84	0.462	99.8	313.4	-19.1	0.214
4-4550	4-4910	0.421	54.3	72.0	15.91	1.206	79.6	0.470	1.772	33.1	172.3	---	---	-9.68	0.458	96.7	310.2	-21.3	0.210
4-4550	4-4930	0.435	49.0	75.3	17.30	1.206	80.1	0.467	1.772	31.5	175.6	---	---	-10.78	0.455	93.9	307.5	-23.7	0.212
4-4550	4-4950	0.457	38.6	78.7	19.05	1.206	80.7	0.466	1.777	29.7	178.5	---	---	-12.23	0.453	91.3	305.5	-26.2	0.218
4-4550	4-4970	0.488	16.5	81.4	21.32	1.207	81.3	0.465	1.785	27.7	181.2	---	2.614	-14.23	0.453	89.0	304.3	-29.0	0.229
4-4550	4-4990	0.534	340.5	81.3	24.45	1.209	81.9	0.465	1.795	25.6	183.6	---	2.630	-17.08	0.452	86.9	304.1	-32.4	0.247
4-4550	4-5010	0.609	314.1	77.2	29.06	1.210	82.6	0.466	1.808	23.4	185.9	---	2.650	-21.42	0.453	84.9	305.2	-36.4	0.277
4-4550	4-5030	0.734	303.6	69.7	36.51	1.212	83.3	0.468	1.822	21.2	188.0	---	2.674	-28.61	0.453	83.1	308.1	-40.9	0.329
4-4550	4-5050	0.966	301.8	58.4	50.09	1.214	83.8	0.470	1.837	19.4	189.9	---	2.701	-41.93	0.454	81.4	314.1	-44.2	0.430
4-4550	4-5070	1.396	305.3	40.7	76.93	1.216	84.0	0.474	1.853	18.7	191.9	---	2.732	-68.52	0.455	79.6	324.1	-41.4	0.629
4-4550	4-5110	0.708	81.4	-64.4	-35.38	1.220	88.4	0.476	1.887	5.1	194.2	---	2.785	44.28	0.456	77.8	322.7	43.8	0.450
4-4550	4-5130	0.460	103.0	-50.7	-21.09	1.222	89.0	0.480	1.905	3.1	195.7	---	2.820	30.24	0.457	76.4	318.7	39.5	0.352
4-4550	4-5150	0.336	115.0	-36.9	-13.33	1.224	89.8	0.485	1.923	0.6	197.1	---	2.855	22.72	0.458	75.1	317.6	33.8	0.308
4-4550	4-5170	0.273	124.6	-23.7	-8.58	1.226	90.7	0.490	1.941	357.8	558.4	0.991	2.892	18.21	0.459	73.9	318.3	28.7	0.287
4-4550	4-5190	0.243	133.6	-12.0	-5.38	1.228	91.7	0.495	1.960	354.9	559.5	0.990	2.929	15.26	0.459	72.8	319.8	24.6	0.277
4-4550	4-5210	0.232	142.2	-2.5	-3.07	1.230	92.7	0.501	1.978	351.9	560.6	0.988	2.968	13.19	0.460	71.6	321.9	21.4	0.274
4-4550	4-5230	0.231	150.4	4.6	-1.31	1.232	93.8	0.507	1.996	348.8	561.7	0.985	3.008	11.68	0.461	70.5	324.3	18.8	0.273
4-4550	4-5250	0.238	158.1	9.6	0.08	1.234	94.8	0.513	2.014	345.7	562.6	0.981	3.048	10.54	0.462	69.4	326.9	16.7	0.274
4-4550	4-5270	0.249	165.2	12.9	1.22	1.235	95.9	0.520	2.033	342.6	563.6	0.976	3.090	9.65	0.462	68.3	329.7	15.1	0.277
4-4550	4-5290	0.262	171.5	14.8	2.19	1.237	97.1	0.527	2.051	339.5	564.4	0.969	3.132	8.95	0.463	67.3	332.7	13.7	0.280
4-4550	4-5310	0.278	177.3	15.8	3.01	1.239	98.2	0.535	2.069	336.3	565.2	0.962	3.175	8.38	0.464	66.2	335.7	12.6	0.284
4-4560	4-4680	0.615	104.1	42.1	8.02	1.500	75.2	1.211	-4.398	27.0	99.6	---	---	-4.96	1.002	146.2	328.4	-3.2	0.859
4-4560	4-4700	0.539	96.6	45.0	8.45	1.403	74.9	0.950	18.231	31.1	108.6	---	---	-4.84	0.851	142.2	329.0	-3.6	0.701
4-4560	4-4720	0.495	89.3	47.1	8.88	1.338	74.5	0.789	4.299	35.2	117.7	---	---	-4.77	0.740	137.8	329.2	-4.1	0.582
4-4560	4-4740	0.469	83.1	48.7	9.29	1.294	74.2	0.687	2.869	39.1	126.4	---	---	-4.73	0.658	133.0	329.1	-4.7	0.489
4-4560	4-4760	0.454	78.1	49.9	9.70	1.264	74.0	0.621	2.347	42.3	134.6	---	---	-4.73	0.596	128.1	328.4	-5.3	0.416
4-4560	4-4780	0.445	74.3	51.0	10.12	1.243	74.0	0.577	2.090	44.7	142.0	---	---	-4.77	0.551	123.1	327.3	-6.2	0.357
4-4560	4-4800	0.439	71.6	52.1	10.54	1.228	74.0	0.547	1.946	46.3	148.6	---	---	-4.84	0.518	118.2	325.5	-7.1	0.312
4-4560	4-4820	0.434	69.7	53.4	10.98	1.219	74.1	0.527	1.860	47.1	154.4	---	---	-4.95	0.494	113.4	323.1	-8.1	0.276
4-4560	4-4840	0.431	68.5	54.9	11.45	1.212	74.4	0.512	1.807	47.3	159.5	---	---	-5.11	0.476	109.0	320.2	-9.3	0.249
4-4560	4-4860	0.429	67.8	56.5	11.94	1.208	74.7	0.502	1.776	46.8	164.1	---	---	-5.32	0.465	104.9	316.9	-10.5	0.229
4-4560	4-4880	0.427	67.5	58.5	12.48	1.206	75.2	0.494	1.758	45.9	168.1	---	---	-5.59	0.457	101.2	313.6	-11.7	0.215
4-4560	4-4900	0.426	67.5	60.7	13.08	1.205	75.7	0.489	1.751	44.6	171.7	---	---	-5.93	0.452	97.8	310.3	-12.9	0.207
4-4560	4-4920	0.427	67.7	63.2	13.76	1.205	76.3	0.485	1.750	43.0	174.9	---	---	-6.36	0.449	94.8	307.5	-14.1	0.203
4-4560	4-4940	0.429	67.9	66.0	14.55	1.205	76.9	0.482	1.755	41.0	177.8	---	---	-6.91	0.447	92.1	305.2	-15.4	0.203
4-4560	4-4960	0.433	67.9	69.1	15.48	1.207	77.6	0.479	1.763	38.9	180.4	---	2.608	-7.61	0.447	89.6	303.5	-16.8	0.205
4-4560	4-4980	0.442	67.2	72.6	16.62	1.208	78.4	0.478	1.774	36.6	182.8	---	2.623	-8.53	0.447	87.4	302.6	-18.4	0.210
4-4560	4-5000	0.456	64.6	76.6	18.07	1.210	79.1	0.478	1.788	34.1	185.0	---	2.641	-9.77	0.448	85.4	302.4	-20.4	0.217
4-4560	4-5020	0.478	56.1	80.8	19.99	1.212	79.9	0.478	1.802	31.5	187.1	---	2.663	-11.49	0.449	83.6	302.9	-23.0	0.228
4-4560	4-5040	0.515	24.2	84.4	22.71	1.214	80.8	0.478	1.819	28.9	188.9	---	2.688	-14.01	0.450	82.0	304.2	-26.3	0.243
4-4560	4-5060	0.579	325.9	82.6	26.88	1.216	81.6	0.479	1.836	26.2	190.7	---	2.716	-17.99	0.451	80.4	306.5	-30.9	0.268
4-4560	4-5080	0.699	307.3	74.7	34.11	1.218	82.4	0.481	1.854	23.6	192.4	---	2.745	-25.03	0.452	79.0	310.6	-36.8	0.313
4-4560	4-5100	0.954	306.6	61.7	49.04	1.220	83.1	0.484	1.872	21.3	193.9	---	2.777	-39.77	0.454	77.6	318.8	-42.6	0.418
4-4560	4-5140	0.911	59.5	-65.6	-46.77	1.224	86.6	0.485	1.910	10.5	196.2	---	2.836	56.40	0.456	75.8	331.6	43.0	0.540

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4590	4-4910	0.571	87.7	43.3	10.46	1.194	63.6	0.573	1.646	77.4	177.1	---	---	0.71	0.408	93.8	302.4	1.2	0.235
4-4590	4-4930	0.556	89.4	44.0	10.40	1.195	64.6	0.565	1.657	75.0	179.5	---	---	0.72	0.410	90.6	300.8	1.3	0.231
4-4590	4-4950	0.541	91.2	44.7	10.34	1.198	65.5	0.558	1.672	72.3	181.7	---	2.605	0.74	0.412	87.8	299.8	1.3	0.230
4-4590	4-4970	0.525	93.2	45.4	10.27	1.200	66.6	0.552	1.689	69.6	183.8	---	2.621	0.77	0.416	85.4	299.3	1.4	0.230
4-4590	4-4990	0.510	95.4	46.1	10.20	1.203	67.6	0.547	1.708	66.7	185.6	---	2.641	0.80	0.420	83.3	299.4	1.4	0.231
4-4590	4-5010	0.495	97.8	46.8	10.12	1.206	68.6	0.542	1.728	63.7	187.4	---	2.664	0.84	0.423	81.4	299.9	1.5	0.233
4-4590	4-5030	0.480	100.4	47.5	10.03	1.209	69.6	0.538	1.749	60.7	189.0	---	2.690	0.89	0.427	79.8	300.4	1.6	0.235
4-4590	4-5050	0.464	103.2	48.1	9.93	1.212	70.7	0.534	1.771	57.6	190.6	---	2.717	0.96	0.431	78.4	302.2	1.7	0.238
4-4590	4-5070	0.449	106.2	48.7	9.82	1.215	71.7	0.531	1.794	54.4	192.0	---	2.746	1.04	0.434	77.1	303.8	1.8	0.241
4-4590	4-5090	0.434	109.5	49.3	9.68	1.217	72.8	0.528	1.817	51.3	193.4	---	2.777	1.14	0.438	75.9	305.7	2.0	0.243
4-4590	4-5110	0.419	113.0	49.7	9.52	1.220	73.8	0.526	1.840	48.1	194.6	---	2.808	1.27	0.441	74.8	307.8	2.2	0.246
4-4590	4-5130	0.404	116.8	49.9	9.32	1.223	74.9	0.525	1.863	44.8	195.8	---	2.840	1.44	0.444	73.9	310.1	2.5	0.249
4-4590	4-5150	0.389	120.8	49.9	9.06	1.226	76.0	0.524	1.886	41.6	197.0	---	2.873	1.68	0.446	73.0	312.6	2.9	0.251
4-4590	4-5170	0.374	124.9	49.4	8.69	1.228	77.0	0.523	1.909	38.4	198.1	---	2.907	2.02	0.449	72.1	315.1	3.4	0.254
4-4590	4-5190	0.357	129.2	48.2	8.15	1.231	78.1	0.523	1.932	35.2	199.2	---	2.941	2.54	0.451	71.3	317.9	4.2	0.257
4-4590	4-5210	0.338	133.2	45.5	7.23	1.233	79.1	0.523	1.954	32.0	200.2	---	2.976	3.42	0.453	70.5	320.7	5.6	0.260
4-4590	4-5230	0.313	136.0	39.1	5.36	1.236	80.2	0.523	1.977	28.8	201.1	---	3.011	5.27	0.455	69.8	323.7	8.5	0.264
4-4590	4-5250	0.284	132.9	14.0	-0.81	1.238	81.3	0.524	1.999	25.6	202.1	---	3.047	11.42	0.457	69.0	327.8	17.5	0.281
4-4590	4-5270	1.132	322.9	64.0	58.90	1.240	82.5	0.525	2.021	22.0	202.9	---	3.082	-48.31	0.459	68.4	347.5	-40.9	0.487
4-4590	4-5290	0.455	185.5	72.6	19.08	1.242	83.4	0.527	2.042	19.1	203.8	---	3.119	-8.53	0.461	67.6	333.2	-13.2	0.277
4-4590	4-5310	0.390	179.8	64.8	15.16	1.244	84.5	0.529	2.063	15.9	204.6	---	3.155	-4.63	0.463	67.0	335.7	-7.3	0.272
4-4590	4-5330	0.365	182.4	60.4	13.70	1.246	85.6	0.532	2.084	12.8	205.4	---	3.192	-3.19	0.464	66.3	338.7	-5.0	0.272
4-4590	4-5350	0.351	186.7	57.0	12.93	1.248	86.7	0.535	2.104	9.6	206.2	---	3.230	-2.45	0.466	65.6	341.8	-3.8	0.274
4-4600	4-4740	0.878	89.0	37.3	12.64	1.279	48.6	0.804	2.508	96.9	144.3	---	---	3.46	0.618	143.5	320.3	2.2	0.578
4-4600	4-4760	0.829	88.0	37.5	12.26	1.240	50.0	0.753	2.018	98.5	151.0	---	---	3.22	0.535	136.9	318.6	2.4	0.487
4-4600	4-4780	0.792	87.7	37.8	11.93	1.216	51.3	0.719	1.803	99.1	156.5	---	---	3.03	0.477	130.0	316.5	2.6	0.419
4-4600	4-4800	0.762	87.8	38.0	11.63	1.201	52.5	0.693	1.693	98.8	161.2	---	---	2.88	0.437	123.0	314.1	2.9	0.368
4-4600	4-4820	0.736	88.4	38.3	11.36	1.192	53.7	0.673	1.634	97.8	165.2	---	---	2.76	0.412	116.2	311.3	3.1	0.330
4-4600	4-4840	0.714	89.2	38.6	11.11	1.188	54.9	0.657	1.604	96.3	168.7	---	---	2.68	0.396	109.9	308.4	3.3	0.302
4-4600	4-4860	0.692	90.3	39.0	10.87	1.186	56.0	0.643	1.592	94.5	171.8	---	---	2.61	0.388	104.1	305.7	3.5	0.282
4-4600	4-4880	0.672	91.6	39.3	10.64	1.185	57.1	0.630	1.590	92.3	174.6	---	---	2.57	0.385	99.1	303.2	3.7	0.268
4-4600	4-4900	0.653	93.0	39.7	10.42	1.186	58.3	0.619	1.597	89.9	177.1	---	---	2.55	0.386	94.7	301.2	3.8	0.259
4-4600	4-4920	0.634	94.6	40.0	10.21	1.188	59.4	0.609	1.609	87.3	179.4	---	---	2.55	0.389	90.9	299.7	3.9	0.254
4-4600	4-4940	0.615	96.4	40.3	9.99	1.191	60.5	0.600	1.625	84.5	181.5	---	2.599	2.57	0.393	87.7	298.7	4.0	0.251
4-4600	4-4960	0.596	98.3	40.6	9.77	1.194	61.7	0.592	1.643	81.7	183.4	---	2.615	2.61	0.398	85.0	298.3	4.1	0.250
4-4600	4-4980	0.578	100.2	40.9	9.54	1.197	62.8	0.584	1.664	78.7	185.3	---	2.635	2.66	0.403	82.7	298.4	4.3	0.250
4-4600	4-5000	0.560	102.3	41.2	9.30	1.200	63.9	0.577	1.686	75.7	187.0	---	2.658	2.74	0.408	80.7	299.0	4.4	0.251
4-4600	4-5020	0.541	104.6	41.4	9.05	1.204	65.1	0.571	1.709	72.5	188.5	---	2.684	2.84	0.413	79.0	299.9	4.6	0.252
4-4600	4-5040	0.523	106.9	41.5	8.79	1.207	66.2	0.565	1.732	69.4	190.0	---	2.712	2.96	0.418	77.5	301.3	4.8	0.254
4-4600	4-5060	0.505	109.4	41.5	8.50	1.210	67.3	0.560	1.757	66.2	191.4	---	2.741	3.12	0.423	76.2	302.9	5.0	0.256
4-4600	4-5080	0.487	111.9	41.4	8.17	1.213	68.4	0.556	1.781	63.0	192.8	---	2.771	3.32	0.428	75.0	304.8	5.3	0.258
4-4600	4-5100	0.468	114.6	41.1	7.81	1.217	69.5	0.552	1.806	59.8	194.0	---	2.802	3.56	0.432	73.9	306.9	5.7	0.260
4-4600	4-5120	0.450	117.4	40.6	7.39	1.220	70.7	0.548	1.831	56.5	195.2	---	2.834	3.87	0.435	73.0	309.2	6.2	0.262
4-4600	4-5140	0.431	120.2	39.8	6.90	1.223	71.8	0.545	1.855	53.3	196.4	---	2.867	4.25	0.439	72.1	311.6	6.7	0.264
4-4600	4-5160	0.413	123.1	38.6	6.30	1.225	72.9	0.543	1.880	50.0	197.5	---	2.900	4.74	0.442	71.3	314.2	7.5	0.266
4-4600	4-5180	0.394	126.0	36.7	5.55	1.228	73.9	0.541	1.904	46.8	198.5	---	2.934	5.39	0.445	70.6	316.9	8.4	0.269
4-4600	4-5200	0.374	128.7	33.9	4.57	1.231	75.0	0.539	1.928	43.6	199.5	---	2.968	6.27	0.448	69.9	319.8	9.7	0.272
4-4600	4-5220	0.354	131.0	29.5	3.22	1.234	76.1	0.538	1.952	40.4	200.5	---	3.003	7.52	0.451	69.2	322.8	11.5	0.275
4-4600	4-5240	0.335	132.6	22.2	1.21	1.236	77.2	0.538	1.976	37.2	201.4	---	3.038	9.43	0.453	68.5	326.1	14.2	0.281
4-4600	4-5260	0.324	132.3	9.6	-2.11	1.238	78.2	0.537	1.999	34.0	202.3	---	3.073	12.66	0.455	67.9	329.8	18.5	0.292
4-4600	4-5280	0.352	127.1	-13.6	-8.70	1.241	79.3	0.538	2.021	31.0	203.2	---	3.109	19.16	0.457	67.3	334.8	25.8	0.318
4-4600	4-5300	0.602	102.4	-45.5	-27.07	1.243	80.2	0.539	2.044	28.3	204.1	---	3.145	37.45	0.460	66.6	346.4	37.7	0.419
4-4600	4-5340	0.799	285.3	77.7	39.18	1.247	82.9	0.539	2.088	20.3	205.6	---	3.213	-28.98	0.464	65.6	348.6	-33.6	0.370
4-4600	4-5360	0.584	226.0	75.4	26.82	1.249	83.9	0.541	2.109	17.5	206.4	---	3.250	-16.71	0.466	65.0	346.5	-22.9	0.312
4-4610	4-4750	0.985	92.3	35.9	14.86	1.252	41.5	0.831	2.146	113.0	153.0	---	---	6.73	0.562	145.4	316.5	3.7	0.576
4-4610	4-4770	0.930	92.2	36.0	14.03	1.218	43.4	0.792	1.820	113.1	158.1	---	---	6.12	0.482	138.1	314.5	4.0	0.490
4-4610	4-4790	0.887	92.6	36.2	13.34	1.198	45.1	0.763	1.670	112.4	162.4	---	---	5.65	0.428	130.3	312.2	4.3	0.426
4-4610	4-4810	0.852	93.3	36.3	12.74	1.186	46.7	0.740	1.594	111.1	166.0	---	---	5.28	0.393	122.3	309.6	4.6	0.379
4-4610	4-4830	0.821	94.3	36.5	12.20	1.180	48.3	0.720	1.556	109.3	169.3	---	---	5.00	0.372	114.7	306.9	4.9	0.345
4-4610	4-4850	0.794	95.5	36.6	11.73	1.177	49.7	0.703	1.540	107.2	172.1	---	---	4.78	0.361	107.6	304.3	5.1	0.320
4-4610	4-4870	0.769	96.9	36.8	11.29	1.176	51.1	0.688	1.537	104.9	174.7	---	---	4.61	0.357	101.4	302.0	5.3	0.303
4-4610	4-4890	0.745	98.4	36.9	10.88	1.177	52.4	0.674	1.543	102.3	177.0	---	---	4.48	0.358	96.1	300.1	5.5	0.291
4-4610	4-4910	0.722	100.0	37.0	10.49	1.180	53.8	0.661	1.556	99.6	179.2	---	---	4.40	0.362	91.6	298.7	5.6	0.283
4-4610	4-4930	0.700	101.7	37.1	10.11	1.182	55.1	0.650	1.573	96.7	181.2	---	2.594	4.34	0.368	87.8	297.8	5.8	0.278
4-4610	4-4950	0.678	103.5	37.2	9.74	1.186	56.4	0.639	1.592	93.7	183.1	---	2.610	4.32	0.375	84.6	297.5	5.9	0.275
4-4610	4-4970	0.657	105.3	37.2	9.38	1.189	57.6	0.629	1.614	90.7	184.8	---	2.629	4.34	0.382	82.0	297.6	6.0	0.273
4-4610	4-4990	0.636	107.2	37.2	9.02	1.193	58.9	0.620	1.638	87.6	186.4	---	2.653	4.38	0.389	79.8	298.2	6.1	0.273
4-4610	4-5010	0.615	109.2	37.1	8.65	1.197	60.2	0.611	1.663	84.4	188.0	---	2.678	4.45	0.396	77.9	299.1	6.3	0.273
4-4610	4-5030	0.595	111.3	36.9	8.27	1.201	61.4	0.603	1.688	81.2	189.4	---	2.706	4.55	0.402	76.3	300.5	6.5	0.274
4-4610	4-5050	0.574	113.4	36.7	7.87	1.204	62.6	0.596	1.714	78.0	190.8	---	2.735	4.69	0.409	74.9	302.1	6.8	0.275
4-4610	4-5070	0.554	115.6	36.3	7.45	1.208	63.8	0.589	1.740	74.7	192.1	---	2.766	4.87	0.414	73.7	303.9	7.0	0.276
4-4610	4-5090	0.534	117.8	35.8	6.99	1.212	65.0	0.583	1.767	71.4	193.4	---	2.797	5.10	0.420	72.7	306.0	7.4	0.277
4-4610	4-5110	0.513	120.0	35.1	6.50	1.215	66.2	0.578	1.793	68.2	194.6	---	2.829	5.37	0.425	71.8	308.3	7.8	0.278
4-4610	4-5130	0.493	122.3	34.1	5.95	1.218	67.3	0.573	1.820	64.9	195.7	---	2.862	5.72	0.429	70.9	310.7	8.3	0.279
4-4610	4-5150	0.473	124.6	32.9	5.34	1.222	68.5	0.569	1.846	61.6	196.8	---	2.896	6.14	0.433	70.2	313.3	8.9	0.281
4-4610	4-5170	0.454	126.8	31.3	4.63	1.225	69.6	0.565	1.872	58.4	197.8	---	2.929	6.66	0.437	69.5	316.0	9.7	0.283
4-4610	4-5190	0.434	129.0	29.1	3.79	1.228	70.8	0.562	1.897	55.1	198.8	---	2.963	7.32	0.441	68.8	318.8	10.6	0.284
4-4610	4-5210	0.415	131.0	26.3	2.78	1.230	71.9	0.559	1.923	51.9	199.8	---	2.997	8.15	0.444	68.2	321.8	11.8	0.287
4-4610	4-5230	0.396	132.8	22.3	1.51	1.233	73.0	0.557	1.948	48.7	200.7	---	3.032	9.25	0.447	67.7	324.8	13.3	0.290
4-4610	4-5250	0.379	134.1	16.9	-0.12	1.236	74.1	0.555	1.972	45.6	201.6	---	3.067	10.72	0.450	67.1	328.1	15.2	0.294

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= CERES

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

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

EARTH-VESTA TRAJECTORY DATA

FOR THE YEARS 1969-1980

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 380	4- 600	0.821	78.1	18.2	-4.12	1.253	130.3	0.789	2.496	264.7	501.3	0.526	---	-3.98	0.644	142.1	217.3	-2.6	0.604
4- 380	4- 620	0.759	78.1	17.2	-4.52	1.217	127.9	0.731	2.039	265.0	506.6	0.549	---	-3.77	0.575	135.9	218.5	-2.9	0.520
4- 380	4- 640	0.711	78.1	16.3	-4.89	1.190	125.9	0.685	1.803	265.1	511.9	0.567	---	-3.61	0.522	129.2	219.0	-3.3	0.449
4- 380	4- 660	0.675	78.1	15.5	-5.23	1.170	124.4	0.651	1.665	265.2	517.2	0.582	---	-3.49	0.483	122.2	218.8	-3.7	0.390
4- 380	4- 680	0.650	78.3	14.7	-5.56	1.156	123.3	0.625	1.578	265.2	522.4	0.592	---	-3.40	0.455	115.0	217.5	-4.1	0.342
4- 380	4- 700	0.633	78.5	14.0	-5.88	1.146	122.6	0.607	1.521	264.9	527.5	0.598	---	-3.35	0.437	107.8	215.0	-4.6	0.304
4- 380	4- 720	0.623	78.8	13.4	-6.20	1.139	122.2	0.596	1.484	264.4	532.5	0.599	---	-3.32	0.426	100.8	211.3	-5.1	0.275
4- 380	4- 740	0.622	79.3	13.0	-6.53	1.134	122.2	0.592	1.459	263.6	537.2	0.596	---	-3.33	0.421	94.0	208.6	-5.4	0.257
4- 380	4- 760	0.627	80.0	12.6	-6.86	1.130	122.5	0.593	1.444	262.4	541.7	0.687	2.301	-3.36	0.421	87.5	201.3	-5.7	0.250
4- 380	4- 780	0.639	80.8	12.5	-7.21	1.129	123.3	0.601	1.435	260.8	545.8	0.573	2.297	-3.44	0.425	81.4	196.3	-5.7	0.253
4- 380	4- 800	0.659	81.9	12.5	-7.58	1.128	124.4	0.614	1.432	258.7	549.5	0.553	2.311	-3.55	0.431	75.6	192.2	-5.6	0.267
4- 380	4- 820	0.686	83.3	12.6	-7.99	1.128	125.9	0.633	1.432	255.9	552.7	0.526	2.338	-3.72	0.440	70.0	189.6	-5.3	0.289
4- 380	4- 840	0.722	84.9	12.9	-8.46	1.129	128.0	0.657	1.436	252.6	555.4	0.492	2.380	-3.95	0.449	64.5	188.7	-5.0	0.320
4- 380	4- 860	0.767	86.9	13.3	-9.00	1.130	130.6	0.688	1.442	248.5	557.4	0.449	2.435	-4.27	0.460	59.0	189.3	-4.7	0.358
4- 380	4- 880	0.823	89.2	13.9	-9.66	1.132	133.8	0.725	1.451	243.6	558.7	0.398	2.504	-4.71	0.470	53.4	191.3	-4.4	0.403
4- 380	4- 900	0.890	92.0	14.5	-10.48	1.134	137.8	0.768	1.462	237.8	559.2	0.339	2.586	-5.32	0.481	47.4	194.6	-4.1	0.455
4- 380	4- 920	0.970	95.3	15.1	-11.58	1.137	142.5	0.816	1.476	230.9	558.6	0.271	2.680	-6.22	0.492	41.0	199.1	-3.9	0.515
4- 380	4- 940	1.064	99.0	15.8	-13.17	1.140	148.2	0.866	1.491	223.0	557.1	0.199	2.783	-7.61	0.503	34.0	204.7	-3.7	0.583
4- 390	4- 610	0.789	85.9	17.3	-4.88	1.258	128.3	0.782	2.586	269.3	498.8	0.585	---	-2.93	0.657	141.3	221.2	-2.0	0.605
4- 390	4- 630	0.726	85.8	16.3	-5.20	1.221	125.9	0.719	2.094	269.6	504.2	0.588	---	-2.73	0.589	135.3	222.6	-2.2	0.520
4- 390	4- 650	0.678	85.7	15.4	-5.48	1.194	123.9	0.671	1.844	269.8	509.6	0.607	---	-2.58	0.537	128.8	223.4	-2.4	0.449
4- 390	4- 670	0.641	85.6	14.5	-5.74	1.174	122.3	0.633	1.697	270.0	515.1	0.622	---	-2.46	0.498	122.1	223.4	-2.7	0.389
4- 390	4- 690	0.614	85.6	13.7	-5.98	1.160	121.2	0.605	1.605	270.1	520.5	0.634	---	-2.37	0.471	115.2	222.5	-3.0	0.340
4- 390	4- 710	0.595	85.8	13.0	-6.21	1.150	120.4	0.585	1.545	270.0	525.8	0.641	---	-2.30	0.452	108.4	220.4	-3.3	0.300
4- 390	4- 730	0.584	86.0	12.4	-6.44	1.142	119.9	0.572	1.506	269.6	530.9	0.644	---	-2.25	0.441	101.7	217.1	-3.6	0.270
4- 390	4- 750	0.580	86.4	12.0	-6.66	1.137	119.8	0.566	1.479	269.0	535.9	0.642	---	-2.23	0.436	95.3	212.7	-3.9	0.250
4- 390	4- 770	0.583	86.9	11.8	-6.88	1.133	120.0	0.565	1.463	267.9	540.6	0.636	2.290	-2.23	0.436	89.3	207.5	-4.1	0.239
4- 390	4- 790	0.592	87.7	11.7	-7.11	1.131	120.5	0.570	1.453	266.5	544.9	0.624	2.281	-2.25	0.439	83.5	202.2	-4.1	0.239
4- 390	4- 810	0.608	88.7	11.7	-7.35	1.131	121.5	0.581	1.448	264.5	548.9	0.607	2.290	-2.30	0.445	78.1	197.8	-4.0	0.249
4- 390	4- 830	0.631	89.9	11.9	-7.60	1.130	122.8	0.597	1.448	262.1	552.4	0.584	2.312	-2.38	0.452	72.9	194.6	-3.8	0.267
4- 390	4- 850	0.661	91.4	12.3	-7.88	1.131	124.5	0.618	1.451	259.0	555.4	0.554	2.348	-2.49	0.461	67.9	193.1	-3.6	0.294
4- 390	4- 870	0.700	93.2	12.8	-8.20	1.132	126.8	0.646	1.456	255.3	557.8	0.516	2.397	-2.64	0.470	62.8	193.1	-3.4	0.327
4- 390	4- 890	0.748	95.4	13.3	-8.57	1.134	129.6	0.679	1.464	250.8	559.6	0.470	2.459	-2.88	0.480	57.7	194.7	-3.2	0.368
4- 390	4- 910	0.807	98.0	13.9	-9.02	1.136	133.0	0.719	1.474	245.4	560.6	0.414	2.534	-3.16	0.489	52.3	197.5	-3.0	0.415
4- 390	4- 930	0.878	101.0	14.6	-9.58	1.138	137.2	0.764	1.486	239.2	560.7	0.350	2.622	-3.58	0.499	46.6	201.4	-2.8	0.469
4- 390	4- 950	0.961	104.5	15.2	-10.34	1.141	142.2	0.814	1.500	231.9	559.8	0.278	2.723	-4.20	0.509	40.3	206.5	-2.6	0.530
4- 390	4- 970	1.059	108.5	15.8	-11.43	1.144	148.1	0.867	1.517	223.5	557.8	0.202	2.832	-5.16	0.518	33.3	212.6	-2.4	0.599
4- 400	4- 620	0.756	93.5	15.5	-5.88	1.262	126.3	0.774	2.666	273.8	496.5	0.603	---	-1.59	0.668	140.5	225.0	-1.1	0.604
4- 400	4- 640	0.694	93.3	14.5	-6.07	1.225	123.9	0.708	2.144	274.2	502.0	0.626	---	-1.46	0.601	134.6	226.5	-1.2	0.519
4- 400	4- 660	0.645	93.1	13.5	-6.24	1.198	121.9	0.656	1.880	274.6	507.5	0.646	---	-1.35	0.550	128.3	227.5	-1.3	0.448
4- 400	4- 680	0.607	92.9	12.7	-6.38	1.178	120.3	0.617	1.727	274.9	513.1	0.662	---	-1.27	0.512	121.8	227.8	-1.4	0.388
4- 400	4- 700	0.579	92.8	11.9	-6.52	1.164	119.1	0.587	1.631	275.1	518.7	0.674	---	-1.20	0.485	115.2	227.2	-1.6	0.338
4- 400	4- 720	0.560	92.8	11.3	-6.64	1.153	118.2	0.565	1.568	275.1	524.2	0.682	---	-1.15	0.466	108.7	225.5	-1.7	0.297
4- 400	4- 740	0.547	92.9	10.8	-6.75	1.146	117.7	0.550	1.526	274.8	529.5	0.686	---	-1.12	0.455	102.4	222.5	-1.9	0.266
4- 400	4- 760	0.542	93.2	10.5	-6.87	1.140	117.4	0.542	1.499	274.3	534.6	0.686	---	-1.09	0.450	96.3	218.3	-2.0	0.243
4- 400	4- 780	0.542	93.7	10.3	-6.98	1.137	117.6	0.540	1.481	273.4	539.5	0.682	---	-1.08	0.449	90.6	213.3	-2.1	0.230
4- 400	4- 800	0.549	94.4	10.4	-7.09	1.135	118.0	0.543	1.470	272.1	544.0	0.672	2.268	-1.08	0.452	85.2	207.9	-2.1	0.227
4- 400	4- 820	0.561	95.3	10.5	-7.20	1.133	118.8	0.551	1.465	270.4	548.2	0.658	2.272	-1.09	0.457	80.2	203.2	-2.1	0.234
4- 400	4- 840	0.580	96.4	10.9	-7.32	1.133	119.9	0.564	1.464	268.1	552.0	0.638	2.290	-1.11	0.464	75.3	199.6	-2.0	0.249
4- 400	4- 860	0.606	97.9	11.3	-7.44	1.134	121.4	0.583	1.466	265.3	555.3	0.611	2.320	-1.15	0.471	70.7	197.6	-1.9	0.272
4- 400	4- 880	0.640	99.6	11.9	-7.58	1.135	123.3	0.607	1.471	261.8	558.0	0.578	2.364	-1.20	0.480	66.0	197.2	-1.7	0.302
4- 400	4- 900	0.681	101.6	12.5	-7.74	1.136	125.8	0.637	1.478	257.6	560.2	0.536	2.419	-1.28	0.489	61.4	198.2	-1.6	0.338
4- 400	4- 920	0.733	104.1	13.2	-7.92	1.138	128.8	0.673	1.487	252.7	561.6	0.486	2.488	-1.38	0.497	56.5	200.6	-1.5	0.380
4- 400	4- 940	0.795	106.9	13.9	-8.14	1.140	132.4	0.715	1.498	247.0	562.2	0.427	2.570	-1.53	0.506	51.3	204.1	-1.4	0.429
4- 400	4- 960	0.869	110.1	14.5	-8.42	1.143	136.8	0.763	1.511	240.3	562.0	0.359	2.664	-1.74	0.515	45.7	208.7	-1.3	0.484
4- 400	4- 980	0.956	113.9	15.1	-8.79	1.145	142.1	0.815	1.526	232.5	560.8	0.283	2.770	-2.05	0.523	39.5	214.2	-1.2	0.546
4- 400	4-1000	1.057	118.1	15.5	-9.33	1.149	148.2	0.869	1.543	223.7	558.4	0.202	2.884	-2.52	0.530	32.6	220.7	-1.2	0.615
4- 410	4- 630	0.725	100.8	12.5	-7.27	1.265	124.2	0.765	2.733	278.5	494.2	0.841	---	0.17	0.677	139.6	228.6	0.1	0.601
4- 410	4- 650	0.662	100.4	11.6	-7.25	1.229	121.8	0.696	2.186	279.0	499.8	0.865	---	0.16	0.611	133.8	230.3	0.1	0.516
4- 410	4- 670	0.613	100.1	10.7	-7.23	1.202	119.8	0.642	1.912	279.4	505.6	0.684	---	0.14	0.561	127.7	231.4	0.1	0.445
4- 410	4- 690	0.575	99.9	10.0	-7.21	1.182	118.2	0.600	1.753	279.9	511.3	0.701	---	0.13	0.523	121.4	231.9	0.2	0.386
4- 410	4- 710	0.547	99.7	9.3	-7.20	1.167	117.0	0.569	1.654	280.2	517.0	0.713	---	0.12	0.497	115.0	231.5	0.2	0.335
4- 410	4- 730	0.526	99.6	8.8	-7.18	1.157	116.1	0.546	1.589	280.3	522.7	0.722	---	0.11	0.479	108.8	230.1	0.2	0.294
4- 410	4- 750	0.513	99.6	8.5	-7.17	1.149	115.5	0.530	1.546	280.2	528.2	0.727	---	0.11	0.468	102.7	227.5	0.2	0.261
4- 410	4- 770	0.505	99.8	8.3	-7.16	1.144	115.2	0.520	1.517	279.8	533.5	0.728	---	0.11	0.463	97.0	223.5	0.2	0.237
4- 410	4- 790	0.504	100.2	8.3	-7.15	1.140	115.3	0.516	1.498	279.0	538.5	0.725	---	0.10	0.462	91.6	218.6	0.2	0.223
4- 410	4- 810	0.508	100.8	8.5	-7.14	1.138	115.6	0.518	1.487	277.8	543.2	0.717	2.256	0.10	0.464	86.6	213.3	0.2	0.218
4- 410	4- 830	0.518	101.7	8.8	-7.13	1.137	116.2	0.524	1.481	276.2	547.6	0.705	2.258	0.10	0.469	81.8	208.3	0.2	0.222
4- 410	4- 850	0.534	102.8	9.3	-7.12	1.136	117.2	0.535	1.479	274.1	551.6	0.687	2.270	0.10	0.475	77.3	204.4	0.2	0.235
4- 410	4- 870	0.556	104.2	9.9	-7.11	1.137	118.5	0.551	1.481	271.4	555.1	0.664	2.297	0.10	0.482	73.0	202.0	0.2	0.255
4- 410	4- 890	0.585	105.8	10.6	-7.09	1.137	120.2	0.573	1.485	268.2	558.1	0.635	2.335	0.11	0.489	68.7	201.2	0.2	0.281
4- 410	4- 910	0.621	107.8	11.3	-7.08	1.139	122.4	0.599	1.492	264.3	560.5	0.598	2.386	0.11	0.497	64.4	201.9	0.2	0.313
4- 410	4- 930	0.666	110.2	12.1	-7.07	1.140	125.0	0.632	1.500	259.7	562.3	0.553	2.448	0.12	0.505	60.0	203.9	0.2	0.351
4- 410	4- 950	0.720	112.9	12.9	-7.05	1.142	128.2	0.670	1.511	254.4	563.4	0.499	2.523	0.13	0.513	55.4	207.0	0.1	0.395
4- 410	4- 970	0.785	116.0	13.6	-7.03	1.145	132.0	0.714	1.523	248.2	563.7	0.436	2.610	0.15	0.521	50.4	211.2	0.1	0.444
4- 410	4- 990	0.863	119.5	14.2	-7.00	1.147	136.6	0.763	1.537	241.1	563.1	0.364	2.710	0.17	0.528	44.8	216.3	0.1	0.500
4- 410	4-1010	0.953	123.4	14.6	-6.96	1.150	142.1	0.817	1.553	233.0	561.5	0.284	2.821	0.20	0.534	38.7	222.3	0.1	0.562
4- 410	4-1030	1.057	127.8	14.8	-6.91	1.153	148.4	0.872	1.571	223.8	558.9	0.202	2.939	0.24	0.541	31.9	229.1	0.1	0.631
4- 420	4- 640	0.697	107.7	7.8	-9.34	1.268	122.1	0.756	2.783	283.3	492.1	0.679	---	2.65	0.684	138.7	232.1	2.0	0.597
4- 420	4- 660	0.633	107.2	7.2	-8.91	1.232	119.7	0.684	2.220	283.8	497.9	0.702	---	2.29	0.619	132.9	233.9	2.0	0.513

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 420	4- 680	0.584	106.8	6.6	-8.58	1.205	117.7	0.628	1.939	284.4	503.7	0.722	---	2.02	0.570	126.9	235.1	2.1	0.442
4- 420	4- 700	0.545	106.4	6.1	-8.31	1.185	116.1	0.584	1.776	284.9	509.6	0.738	---	1.82	0.534	120.8	235.8	2.2	0.382
4- 420	4- 720	0.516	106.1	5.7	-8.08	1.171	114.9	0.552	1.674	285.4	515.5	0.751	---	1.67	0.508	114.7	235.6	2.3	0.332
4- 420	4- 740	0.494	105.9	5.4	-7.89	1.160	114.0	0.527	1.607	285.6	521.3	0.760	---	1.55	0.490	108.7	234.4	2.5	0.291
4- 420	4- 760	0.480	105.8	5.3	-7.72	1.152	113.4	0.510	1.563	285.6	527.0	0.765	---	1.46	0.480	102.9	232.0	2.6	0.257
4- 420	4- 780	0.471	106.0	5.4	-7.56	1.147	113.1	0.500	1.533	285.3	532.4	0.767	---	1.39	0.474	97.4	228.3	2.8	0.233
4- 420	4- 800	0.468	106.3	5.6	-7.41	1.143	113.1	0.495	1.514	284.6	537.6	0.765	---	1.34	0.473	92.3	223.5	2.9	0.217
4- 420	4- 820	0.471	106.9	6.1	-7.27	1.141	113.3	0.495	1.502	283.6	542.5	0.759	2.245	1.38	0.475	87.6	218.2	2.9	0.210
4- 420	4- 840	0.478	107.7	6.6	-7.13	1.140	113.9	0.500	1.496	282.1	547.0	0.748	2.243	1.28	0.479	83.1	213.1	2.9	0.212
4- 420	4- 860	0.491	108.8	7.3	-6.99	1.140	114.7	0.509	1.494	280.1	551.2	0.733	2.254	1.28	0.485	78.9	209.0	2.7	0.223
4- 420	4- 880	0.510	110.2	8.1	-6.85	1.140	115.9	0.523	1.495	277.5	554.8	0.713	2.277	1.29	0.491	74.8	206.3	2.5	0.240
4- 420	4- 900	0.535	111.9	9.0	-6.71	1.141	117.4	0.542	1.499	274.4	558.0	0.687	2.312	1.32	0.498	70.9	205.2	2.3	0.264
4- 420	4- 920	0.567	113.9	9.9	-6.55	1.142	119.3	0.566	1.506	270.8	560.7	0.654	2.357	1.36	0.506	67.0	205.6	2.2	0.293
4- 420	4- 940	0.606	116.2	10.8	-6.38	1.143	121.6	0.594	1.514	266.5	562.8	0.614	2.414	1.43	0.513	63.0	207.3	2.0	0.327
4- 420	4- 960	0.654	118.9	11.7	-6.19	1.145	124.4	0.629	1.524	261.5	564.3	0.566	2.482	1.52	0.520	58.8	210.1	1.8	0.366
4- 420	4- 980	0.711	121.8	12.4	-5.97	1.147	127.8	0.669	1.535	255.7	565.0	0.509	2.562	1.65	0.526	54.3	214.0	1.7	0.411
4- 420	4-1000	0.779	125.2	13.1	-5.70	1.150	131.8	0.715	1.549	249.2	565.0	0.442	2.655	1.83	0.533	49.4	218.7	1.6	0.461
4- 420	4-1020	0.860	128.9	13.5	-5.36	1.153	136.6	0.765	1.563	241.7	564.0	0.387	2.760	2.09	0.538	44.0	224.2	1.5	0.516
4- 420	4-1040	0.953	133.0	13.8	-4.90	1.155	142.2	0.820	1.580	233.3	562.1	0.285	2.875	2.47	0.544	37.9	230.5	1.4	0.578
4- 420	4-1060	1.058	137.5	13.8	-4.23	1.159	148.6	0.875	1.599	223.9	559.2	0.201	2.997	3.06	0.548	31.2	287.6	1.3	0.646
4- 430	4- 650	0.678	114.2	0.4	-12.71	1.270	119.9	0.745	2.813	288.1	490.2	0.717	---	6.47	0.689	137.6	235.3	5.1	0.593
4- 430	4- 670	0.611	113.5	0.6	-11.42	1.234	117.5	0.670	2.243	288.8	496.1	0.739	---	5.30	0.626	132.0	237.2	4.8	0.509
4- 430	4- 690	0.559	113.0	0.7	-10.51	1.208	115.6	0.613	1.959	289.5	502.1	0.759	---	4.50	0.578	126.1	238.6	4.8	0.438
4- 430	4- 710	0.519	112.4	0.7	-9.82	1.188	114.0	0.568	1.794	290.2	508.2	0.775	---	3.94	0.542	120.1	239.4	4.9	0.379
4- 430	4- 730	0.489	112.0	0.8	-9.27	1.174	112.8	0.535	1.691	290.7	514.2	0.787	---	3.52	0.517	114.1	239.3	5.1	0.329
4- 430	4- 750	0.466	111.7	0.9	-8.81	1.163	111.9	0.510	1.624	291.1	520.2	0.796	---	3.21	0.500	108.4	238.3	5.3	0.287
4- 430	4- 770	0.450	111.6	1.2	-8.42	1.156	111.3	0.492	1.579	291.2	526.0	0.802	---	2.97	0.490	102.8	236.0	5.6	0.254
4- 430	4- 790	0.440	111.6	1.6	-8.08	1.151	111.0	0.481	1.548	291.0	531.6	0.804	---	2.78	0.485	97.6	232.5	5.9	0.229
4- 430	4- 810	0.435	112.0	2.2	-7.76	1.147	110.9	0.475	1.529	290.4	536.9	0.803	---	2.64	0.484	92.8	227.9	6.0	0.212
4- 430	4- 830	0.436	112.5	3.0	-7.48	1.145	111.1	0.474	1.517	289.4	541.9	0.798	2.238	2.54	0.485	88.3	222.7	6.0	0.204
4- 430	4- 850	0.441	113.4	3.9	-7.20	1.143	111.6	0.478	1.510	288.0	546.6	0.789	2.232	2.47	0.489	84.1	217.5	5.9	0.205
4- 430	4- 870	0.452	114.6	4.9	-6.93	1.143	112.4	0.486	1.508	286.1	550.8	0.776	2.241	2.43	0.494	80.1	213.3	5.6	0.214
4- 430	4- 890	0.468	116.0	6.0	-6.67	1.143	113.4	0.498	1.509	283.7	554.6	0.758	2.261	2.42	0.500	76.4	210.4	5.2	0.229
4- 430	4- 910	0.489	117.8	7.1	-6.40	1.144	114.8	0.515	1.513	280.7	558.0	0.735	2.292	2.44	0.507	72.7	209.1	4.7	0.250
4- 430	4- 930	0.517	119.8	8.2	-6.12	1.145	116.5	0.536	1.519	277.2	560.9	0.706	2.333	2.49	0.514	69.1	209.3	4.3	0.277
4- 430	4- 950	0.552	122.2	9.2	-5.82	1.147	118.5	0.561	1.528	273.1	563.2	0.670	2.385	2.58	0.520	65.5	210.7	4.0	0.308
4- 430	4- 970	0.594	124.8	10.2	-5.50	1.148	121.1	0.592	1.537	268.4	564.9	0.627	2.447	2.71	0.526	61.7	213.3	3.7	0.343
4- 430	4- 990	0.644	127.7	11.1	-5.13	1.151	124.0	0.628	1.548	263.0	566.0	0.576	2.521	2.89	0.532	57.7	216.9	3.4	0.383
4- 430	4-1010	0.705	131.0	11.8	-4.71	1.153	127.6	0.670	1.561	256.8	566.4	0.515	2.607	3.14	0.537	53.3	221.3	3.2	0.427
4- 430	4-1030	0.776	134.6	12.3	-4.19	1.155	131.8	0.717	1.575	249.9	566.0	0.446	2.704	3.49	0.542	48.5	226.5	3.0	0.477
4- 430	4-1050	0.859	138.5	12.6	-3.54	1.158	136.6	0.768	1.591	242.2	564.7	0.368	2.813	3.99	0.547	43.2	232.4	2.8	0.532
4- 430	4-1070	0.954	142.7	12.6	-2.67	1.161	142.3	0.823	1.608	233.6	562.6	0.285	2.931	4.71	0.551	37.3	239.0	2.6	0.593
4- 440	4- 660	0.693	120.7	-12.4	-19.06	1.272	117.7	0.733	2.821	293.0	488.4	0.753	---	13.30	0.692	136.5	237.7	10.6	0.596
4- 440	4- 680	0.608	119.4	-9.6	-15.60	1.236	115.3	0.656	2.255	293.9	494.5	0.775	---	10.01	0.630	130.9	240.0	9.4	0.508
4- 440	4- 700	0.547	118.5	-7.9	-13.46	1.210	113.4	0.597	1.972	294.8	500.7	0.794	---	8.04	0.584	125.1	241.6	8.8	0.436
4- 440	4- 720	0.501	117.8	-6.8	-11.99	1.191	111.9	0.552	1.807	295.6	507.0	0.810	---	6.75	0.549	119.3	242.5	8.6	0.376
4- 440	4- 740	0.467	117.2	-5.9	-10.90	1.177	110.7	0.518	1.704	296.3	513.2	0.822	---	5.85	0.525	113.5	242.6	8.6	0.326
4- 440	4- 760	0.442	116.8	-5.0	-10.05	1.167	109.8	0.493	1.637	296.8	519.3	0.830	---	5.19	0.509	107.9	241.7	8.8	0.285
4- 440	4- 780	0.423	116.6	-4.1	-9.35	1.159	109.2	0.475	1.592	297.0	525.2	0.836	---	4.70	0.499	102.6	239.6	9.1	0.251
4- 440	4- 800	0.411	116.7	-3.1	-8.76	1.154	108.9	0.463	1.562	296.9	531.0	0.838	---	4.33	0.494	97.6	236.2	9.4	0.226
4- 440	4- 820	0.405	117.0	-2.0	-8.24	1.151	108.8	0.457	1.542	296.4	536.4	0.838	---	4.05	0.493	93.0	231.7	9.6	0.209
4- 440	4- 840	0.403	117.6	-0.7	-7.78	1.148	109.0	0.455	1.530	295.5	541.5	0.833	2.227	3.83	0.495	88.7	226.6	9.5	0.200
4- 440	4- 860	0.407	118.6	0.6	-7.35	1.147	109.4	0.458	1.524	294.1	546.2	0.826	2.222	3.68	0.498	84.8	221.5	9.2	0.200
4- 440	4- 880	0.415	119.8	2.0	-6.94	1.147	110.1	0.465	1.522	292.3	550.6	0.814	2.230	3.58	0.503	81.1	217.2	8.6	0.207
4- 440	4- 900	0.429	121.4	3.4	-6.55	1.147	111.1	0.476	1.523	289.9	554.5	0.798	2.248	3.52	0.509	77.6	214.3	7.9	0.221
4- 440	4- 920	0.447	123.3	4.8	-6.16	1.148	112.3	0.490	1.527	287.0	558.0	0.778	2.276	3.50	0.515	74.2	212.8	7.3	0.240
4- 440	4- 940	0.472	125.5	6.2	-5.76	1.149	113.8	0.509	1.533	283.6	561.0	0.753	2.314	3.53	0.521	70.9	212.8	6.6	0.264
4- 440	4- 960	0.502	127.9	7.4	-5.36	1.150	115.7	0.532	1.541	279.7	563.4	0.721	2.361	3.61	0.527	67.5	214.2	6.0	0.292
4- 440	4- 980	0.539	130.6	8.6	-4.92	1.152	118.0	0.560	1.551	275.1	565.4	0.683	2.419	3.73	0.532	64.1	216.6	5.5	0.324
4- 440	4-1000	0.584	133.6	9.6	-4.45	1.154	120.6	0.592	1.562	270.0	566.8	0.637	2.487	3.92	0.538	60.5	219.9	5.1	0.359
4- 440	4-1020	0.638	136.8	10.3	-3.92	1.156	123.8	0.630	1.574	264.2	567.5	0.583	2.565	4.19	0.542	56.6	224.1	4.8	0.399
4- 440	4-1040	0.701	140.3	10.9	-3.30	1.159	127.5	0.672	1.588	257.8	567.5	0.520	2.655	4.56	0.546	52.4	229.0	4.4	0.444
4- 440	4-1060	0.775	144.1	11.3	-2.56	1.161	131.7	0.720	1.603	250.6	566.8	0.449	2.757	5.06	0.550	47.7	234.5	4.2	0.493
4- 440	4-1080	0.860	148.1	11.3	-1.62	1.164	136.7	0.772	1.619	242.7	565.3	0.370	2.869	5.78	0.553	42.5	240.7	3.9	0.547
4- 440	4-1100	0.956	152.4	11.1	-0.37	1.167	142.4	0.826	1.637	233.9	562.9	0.285	2.989	6.81	0.556	36.7	247.5	3.7	0.605
4- 450	4- 670	0.843	131.0	-34.8	-34.44	1.272	115.5	0.720	2.806	297.8	487.1	0.787	---	29.21	0.694	135.4	236.3	21.9	0.637
4- 450	4- 690	0.662	125.8	-26.0	-23.73	1.238	113.1	0.641	2.255	299.1	493.2	0.809	---	18.71	0.633	129.8	241.2	17.4	0.522
4- 450	4- 710	0.564	123.7	-20.8	-18.47	1.212	111.2	0.581	1.977	300.3	499.6	0.828	---	13.67	0.588	124.1	243.7	15.1	0.442
4- 450	4- 730	0.501	122.5	-17.3	-15.36	1.194	109.7	0.536	1.815	301.3	508.0	0.843	---	10.78	0.555	118.3	245.1	14.0	0.378
4- 450	4- 750	0.457	121.6	-14.8	-13.28	1.180	108.5	0.502	1.714	302.1	512.4	0.854	---	8.93	0.532	112.7	245.4	13.5	0.326
4- 450	4- 770	0.425	121.1	-12.7	-11.77	1.170	107.7	0.476	1.647	302.8	518.7	0.863	---	7.67	0.516	107.3	244.6	13.4	0.284
4- 450	4- 790	0.403	120.8	-10.8	-10.61	1.163	107.1	0.459	1.603	303.1	524.8	0.868	---	6.76	0.507	102.2	242.6	13.5	0.250
4- 450	4- 810	0.387	120.9	-9.0	-9.67	1.158	106.8	0.447	1.574	303.1	530.6	0.870	---	6.09	0.503	97.5	239.4	13.6	0.224
4- 450	4- 830	0.378	121.2	-7.1	-8.88	1.154	106.7	0.440	1.554	302.8	536.1	0.870	---	5.59	0.502	93.0	235.0	13.6	0.207
4- 450	4- 850	0.374	122.0	-5.3	-8.19	1.152	106.9	0.438	1.543	301.7	541.3	0.866	2.219	5.21	0.503	89.0	229.9	13.4	0.198
4- 450	4- 870	0.375	123.1	-3.3	-7.58	1.151	107.3	0.441	1.537	300.4	546.1	0.859	2.214	4.93	0.507	85.2	224.9	12.8	0.196
4- 450	4- 890	0.381	124.5	-1.4	-7.02	1.151	107.9	0.447	1.535	298.6	550.5	0.849	2.220	4.72	0.511	81.8	220.7	11.9	0.202
4- 450	4- 910	0.392	126.3	0.4	-6.49	1.151	108.8	0.456	1.536	296.2	554.5	0.836	2.237	4.58	0.517	78.5	217.7	10.9	0.215
4- 450	4- 930	0.408	128.4	2.2	-5.97	1.152	110.0	0.469	1.540	293.4	558.0	0.818	2.263	4.51	0.522	75.3	216.3	9.9	0.232
4- 450	4- 950	0.429	130.8	3.9	-5.47	1.153	111.4	0.486	1.547	290.1	561.1	0.795	2.298	4.49	0.528	72.3	218.3	8.9	0.254

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 450	4- 970	0.457	133.4	5.4	-4.96	1.154	113.1	0.507	1.555	286.2	563.7	0.767	2.342	4.53	0.533	69.2	217.5	8.1	0.279
4- 450	4- 990	0.490	136.3	6.8	-4.43	1.156	115.1	0.531	1.564	281.8	565.8	0.733	2.395	4.62	0.538	66.1	219.8	7.4	0.308
4- 450	4-1010	0.530	139.4	7.9	-3.87	1.158	117.5	0.560	1.575	276.9	567.3	0.693	2.458	4.79	0.543	62.9	223.0	6.8	0.340
4- 450	4-1030	0.578	142.7	8.8	-3.26	1.160	120.3	0.594	1.587	271.4	568.3	0.644	2.530	5.04	0.547	59.4	227.0	6.3	0.376
4- 450	4-1050	0.634	146.1	9.4	-2.58	1.162	123.6	0.633	1.601	265.3	568.7	0.588	2.613	5.38	0.550	55.7	231.7	5.9	0.416
4- 450	4-1070	0.700	149.8	9.8	-1.79	1.165	127.4	0.676	1.615	258.6	568.5	0.524	2.707	5.85	0.553	51.6	236.9	5.5	0.459
4- 450	4-1090	0.775	153.7	9.9	-0.85	1.167	131.8	0.724	1.631	251.3	567.5	0.451	2.811	6.50	0.556	47.0	242.8	5.2	0.507
4- 450	4-1110	0.861	157.7	9.7	0.34	1.170	136.8	0.775	1.648	243.2	565.8	0.371	2.925	7.40	0.558	41.9	249.2	4.9	0.559
4- 450	4-1130	0.958	161.9	9.2	1.91	1.173	142.4	0.828	1.667	234.4	563.3	0.287	3.048	8.70	0.559	36.2	256.1	4.7	0.615
4- 460	4- 700	0.927	141.1	-50.6	-44.14	1.238	111.0	0.626	2.243	304.0	492.4	0.639	---	39.72	0.634	128.7	235.2	31.0	0.615
4- 460	4- 720	0.669	130.2	-39.7	-28.51	1.214	109.0	0.565	1.975	305.7	498.8	0.859	---	24.36	0.591	122.9	243.0	25.4	0.476
4- 460	4- 740	0.544	126.8	-32.2	-21.19	1.196	107.5	0.520	1.818	307.1	505.4	0.673	---	17.30	0.559	117.3	246.1	22.0	0.393
4- 460	4- 760	0.471	125.2	-26.9	-17.02	1.182	106.4	0.486	1.719	308.2	511.9	0.884	---	13.39	0.537	111.8	247.2	20.2	0.334
4- 460	4- 780	0.424	124.3	-22.8	-14.30	1.173	105.5	0.461	1.655	309.0	518.4	0.892	---	10.96	0.522	106.6	246.8	19.3	0.288
4- 460	4- 800	0.392	123.9	-19.4	-12.37	1.166	105.0	0.443	1.612	309.4	524.6	0.897	---	9.33	0.514	101.6	245.0	18.8	0.252
4- 460	4- 820	0.370	124.0	-16.3	-10.90	1.161	104.7	0.432	1.583	309.5	530.5	0.899	---	8.17	0.510	97.1	241.9	18.6	0.226
4- 460	4- 840	0.356	124.5	-13.4	-9.73	1.158	104.6	0.425	1.565	309.1	536.1	0.899	---	7.33	0.509	92.9	237.6	18.2	0.207
4- 460	4- 860	0.349	125.4	-10.6	-8.76	1.156	104.8	0.423	1.554	308.2	541.3	0.896	2.212	6.70	0.511	89.0	232.7	17.6	0.197
4- 460	4- 880	0.347	126.8	-8.0	-7.91	1.155	105.2	0.425	1.548	306.9	546.1	0.890	2.206	6.23	0.514	85.5	227.8	16.6	0.195
4- 460	4- 900	0.350	128.5	-5.4	-7.17	1.155	105.8	0.430	1.547	305.0	550.6	0.881	2.213	5.88	0.519	82.2	223.7	15.3	0.200
4- 460	4- 920	0.358	130.6	-2.9	-6.48	1.155	106.6	0.439	1.549	302.7	554.5	0.869	2.228	5.63	0.524	79.1	220.9	13.9	0.211
4- 460	4- 940	0.372	133.0	-0.6	-5.84	1.156	107.7	0.451	1.553	299.9	558.1	0.853	2.253	5.47	0.529	76.2	219.5	12.5	0.227
4- 460	4- 960	0.390	135.7	1.4	-5.22	1.157	109.0	0.466	1.560	296.6	561.2	0.833	2.286	5.38	0.534	73.4	219.5	11.2	0.246
4- 460	4- 980	0.415	138.6	3.3	-4.62	1.158	110.6	0.484	1.568	292.8	563.9	0.808	2.327	5.35	0.539	70.6	220.7	10.1	0.270
4- 460	4-1000	0.444	141.7	4.8	-4.01	1.160	112.5	0.507	1.578	288.5	566.1	0.778	2.377	5.40	0.544	67.8	223.0	9.2	0.296
4- 460	4-1020	0.481	145.0	6.1	-3.38	1.162	114.7	0.533	1.589	283.7	567.8	0.743	2.435	5.52	0.548	64.8	226.1	8.4	0.325
4- 460	4-1040	0.523	148.4	7.1	-2.71	1.164	117.2	0.563	1.601	278.4	569.0	0.700	2.502	5.72	0.551	61.8	229.9	7.8	0.357
4- 460	4-1060	0.574	151.9	7.8	-1.98	1.166	120.1	0.597	1.614	272.7	569.7	0.650	2.578	6.01	0.554	58.4	234.4	7.2	0.392
4- 460	4-1080	0.633	155.6	8.2	-1.18	1.168	123.5	0.636	1.628	266.3	569.7	0.592	2.665	6.42	0.556	54.8	239.5	6.8	0.431
4- 460	4-1100	0.700	159.3	8.3	-0.25	1.171	127.4	0.680	1.644	259.4	569.2	0.527	2.761	6.97	0.558	50.8	245.0	6.4	0.473
4- 460	4-1120	0.777	163.2	8.2	0.86	1.174	131.7	0.727	1.660	251.9	568.0	0.453	2.867	7.73	0.559	46.4	251.1	6.0	0.519
4- 460	4-1140	0.864	167.2	7.7	2.24	1.176	136.7	0.777	1.678	243.8	566.1	0.374	2.982	8.77	0.560	41.4	257.6	5.7	0.568
4- 460	4-1160	0.960	171.4	7.0	4.05	1.179	142.3	0.829	1.697	235.1	563.6	0.291	3.103	10.26	0.561	36.0	264.6	5.4	0.621
4- 470	4- 730	1.047	155.0	-63.7	-54.04	1.215	107.1	0.551	1.965	310.6	498.4	0.883	---	50.55	0.592	121.9	231.6	37.7	0.634
4- 470	4- 750	0.700	133.6	-52.1	-33.14	1.197	105.4	0.504	1.815	312.9	505.1	0.900	---	29.96	0.562	116.2	243.0	33.5	0.456
4- 470	4- 770	0.539	128.2	-42.7	-23.58	1.184	104.2	0.470	1.721	314.4	511.8	0.911	---	20.70	0.541	110.8	247.0	29.5	0.363
4- 470	4- 790	0.452	126.3	-35.7	-18.32	1.175	103.3	0.446	1.659	315.5	518.4	0.919	---	15.75	0.527	105.7	247.7	27.0	0.303
4- 470	4- 810	0.398	125.7	-30.1	-14.98	1.169	102.8	0.429	1.618	316.1	524.7	0.923	---	12.78	0.520	100.9	248.5	25.5	0.262
4- 470	4- 830	0.364	125.8	-25.3	-12.65	1.164	102.5	0.418	1.591	316.2	530.7	0.925	---	10.76	0.516	96.6	243.7	24.4	0.232
4- 470	4- 850	0.342	126.5	-21.0	-10.90	1.161	102.5	0.412	1.573	315.8	536.4	0.925	---	9.37	0.516	92.6	239.6	23.4	0.211
4- 470	4- 870	0.328	127.7	-17.0	-9.52	1.159	102.7	0.410	1.563	315.0	541.6	0.922	2.204	8.37	0.517	88.9	234.9	22.1	0.200
4- 470	4- 890	0.322	129.4	-13.3	-8.38	1.159	103.1	0.412	1.559	313.6	546.4	0.917	2.200	7.63	0.521	85.6	230.2	20.5	0.197
4- 470	4- 910	0.322	131.5	-9.8	-7.41	1.159	103.7	0.416	1.558	311.7	550.8	0.909	2.207	7.08	0.525	82.5	226.3	18.7	0.200
4- 470	4- 930	0.328	134.0	-6.6	-6.54	1.159	104.5	0.424	1.560	309.4	554.8	0.898	2.222	6.68	0.530	79.6	223.6	16.8	0.209
4- 470	4- 950	0.338	136.9	-3.8	-5.76	1.160	105.5	0.435	1.565	306.5	558.3	0.884	2.248	6.39	0.535	76.9	222.4	15.0	0.224
4- 470	4- 970	0.354	140.0	-1.2	-5.02	1.161	106.8	0.449	1.572	303.2	561.4	0.867	2.278	6.20	0.540	74.3	222.5	13.4	0.241
4- 470	4- 990	0.376	143.3	1.0	-4.32	1.163	108.3	0.465	1.581	299.4	564.1	0.845	2.316	6.09	0.544	71.7	223.8	12.1	0.262
4- 470	4-1010	0.402	146.8	2.8	-3.63	1.164	110.0	0.485	1.591	295.2	566.4	0.819	2.363	6.07	0.549	69.1	226.0	10.9	0.286
4- 470	4-1030	0.435	150.3	4.3	-2.94	1.166	112.0	0.509	1.602	290.5	568.2	0.787	2.417	6.12	0.552	66.5	229.1	10.0	0.312
4- 470	4-1050	0.474	154.0	5.4	-2.22	1.168	114.3	0.536	1.614	285.4	569.5	0.750	2.479	6.26	0.555	63.7	232.9	9.2	0.341
4- 470	4-1070	0.519	157.6	6.2	-1.47	1.170	117.0	0.566	1.628	279.8	570.4	0.706	2.550	6.48	0.557	60.7	237.2	8.5	0.372
4- 470	4-1090	0.572	161.3	6.6	-0.66	1.173	120.0	0.601	1.642	273.8	570.7	0.655	2.629	6.81	0.559	57.5	242.1	7.9	0.407
4- 470	4-1110	0.633	165.1	6.8	0.25	1.175	123.4	0.640	1.657	267.3	570.5	0.596	2.718	7.26	0.561	54.0	247.4	7.4	0.444
4- 470	4-1130	0.701	168.9	6.6	1.28	1.177	127.3	0.683	1.673	260.3	569.8	0.530	2.817	7.88	0.561	50.1	253.2	7.0	0.484
4- 470	4-1150	0.779	172.7	6.2	2.50	1.180	131.7	0.730	1.690	252.7	568.5	0.456	2.924	8.71	0.562	45.8	259.4	6.6	0.527
4- 470	4-1170	0.865	176.6	5.6	4.01	1.183	136.5	0.779	1.709	244.7	566.5	0.378	3.039	9.84	0.562	41.1	266.0	6.3	0.574
4- 480	4- 660	0.609	157.7	37.5	12.06	1.371	111.4	0.905	9.082	314.8	470.3	0.884	---	-16.12	0.851	141.0	245.2	-11.5	0.743
4- 480	4- 680	0.572	166.8	47.6	16.46	1.311	108.7	0.761	3.712	316.4	476.9	0.885	---	-20.20	0.756	136.0	246.3	-16.3	0.646
4- 480	4- 700	0.611	188.2	57.8	23.87	1.269	106.3	0.656	2.633	318.3	483.8	0.905	---	-27.29	0.684	130.7	245.3	-23.9	0.588
4- 480	4- 720	0.801	226.9	57.8	38.44	1.237	104.1	0.578	2.184	320.8	490.8	0.923	---	-41.55	0.630	125.1	238.6	-34.5	0.605
4- 480	4- 780	0.744	134.7	-62.7	-37.32	1.186	102.1	0.456	1.718	320.6	512.1	0.934	---	35.20	0.543	109.7	241.4	40.3	0.456
4- 480	4- 800	0.543	127.4	-51.7	-25.48	1.178	101.2	0.433	1.660	322.2	518.8	0.942	---	23.70	0.531	104.7	246.3	36.5	0.347
4- 480	4- 820	0.438	125.7	-43.1	-19.16	1.171	100.7	0.416	1.621	323.0	525.2	0.946	---	17.73	0.524	100.1	248.6	33.4	0.285
4- 480	4- 840	0.377	125.8	-36.1	-15.25	1.167	100.4	0.406	1.596	323.2	531.3	0.948	---	14.19	0.521	95.9	244.5	31.1	0.246
4- 480	4- 860	0.339	126.8	-30.0	-12.57	1.165	100.4	0.401	1.580	322.9	536.9	0.947	---	11.89	0.521	92.1	240.8	29.1	0.221
4- 480	4- 880	0.316	128.4	-24.5	-10.59	1.163	100.6	0.399	1.571	322.0	542.1	0.945	2.198	10.30	0.523	88.6	236.4	27.0	0.206
4- 480	4- 900	0.303	130.6	-19.5	-9.03	1.162	101.0	0.400	1.568	320.6	546.9	0.940	2.195	9.17	0.527	85.4	232.0	24.7	0.201
4- 480	4- 920	0.298	133.4	-14.9	-7.76	1.162	101.6	0.405	1.568	318.7	551.2	0.933	2.202	8.34	0.531	82.5	228.4	22.2	0.202
4- 480	4- 940	0.300	136.5	-10.8	-6.68	1.163	102.4	0.412	1.571	316.2	555.2	0.924	2.218	7.73	0.536	79.9	226.1	19.7	0.210
4- 480	4- 960	0.308	140.0	-7.1	-5.73	1.164	103.4	0.422	1.577	313.3	558.7	0.912	2.241	7.28	0.541	77.3	225.0	17.5	0.222
4- 480	4- 980	0.321	143.7	-3.9	-4.86	1.165	104.6	0.434	1.584	310.0	561.7	0.897	2.272	6.97	0.545	74.9	225.3	15.5	0.238
4- 480	4-1000	0.339	147.6	-1.3	-4.06	1.167	106.0	0.449	1.593	306.2	564.4	0.878	2.309	6.78	0.549	72.6	226.6	13.9	0.257
4- 480	4-1020	0.364	151.5	0.9	-3.29	1.169	107.6	0.467	1.604	302.0	566.7	0.855	2.353	6.64	0.553	70.2	228.9	12.5	0.279
4- 480	4-1040	0.393	155.4	2.6	-2.54	1.171	109.5	0.488	1.615	297.4	568.5	0.827	2.403	6.62	0.556	67.8	232.0	11.3	0.302
4- 480	4-1060	0.429	159.4	3.8	-1.78	1.173	111.6	0.512	1.628	292.3	570.0	0.794	2.461	6.67	0.559	65.3	235.7	10.4	0.328
4- 480	4-1080	0.470	163.2	4.6	-1.01	1.175	114.0	0.540	1.641	286.9	571.0	0.756	2.527	6.82	0.561	62.7	240.0	9.6	0.356
4- 480	4-1100	0.518	167.1	5.1	-0.20	1.177	116.8	0.571	1.656	281.1	571.5	0.711	2.601	7.06	0.562	59.8	244.8	8.9	0.386
4- 480	4-1120	0.572	170.8	5.3	0.67	1.179	119.9	0.606	1.671	274.9	571.6	0.659	2.683	7.41	0.563	56.7	249.9	8.3	0.419
4- 480	4-1140	0.634	174.6	5.1	1.63	1.182	123.3	0.645	1.687	268.3	571.2	0.600	2.774	7.89	0.563	53.3	255.5	7.8	0.454
4- 480	4-1160	0.703	178.3	4.7	2.73	1.184	127.2	0.687	1.703	261.2	570.3	0.534	2.873	8.53	0.563	49.6	261.4	7.4	0.492

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 480	4-1180	0.780	182.1	4.1	4.01	1.187	131.5	0.732	1.721	253.7	568.8	0.461	2.981	9.39	0.563	45.5	267.6	7.1	0.533
4- 490	4- 650	0.630	156.9	28.2	7.94	1.442	110.9	1.07511.711		319.7	463.0	0.879	---	-11.72	0.957	144.1	246.5	-7.8	0.843
4- 490	4- 670	0.542	159.9	35.0	9.98	1.363	108.1	0.876	7.259	321.2	469.6	0.899	---	-13.41	0.836	I39.4	248.5	-10.2	0.713
4- 490	4- 690	0.492	165.5	43.9	12.76	1.306	105.6	0.735	3.461	322.9	476.5	0.917	---	-15.84	0.745	I34.4	250.0	-13.7	0.612
4- 490	4- 710	0.487	177.1	54.2	16.84	1.265	103.4	0.633	2.540	325.0	483.8	0.932	---	-19.59	0.677	129.1	250.5	-19.1	0.539
4- 490	4- 730	0.547	202.2	62.3	23.50	1.236	101.6	0.558	2.139	327.3	491.2	0.946	---	-25.90	0.626	I23.6	248.9	-27.1	0.500
4- 490	4- 750	0.730	238.7	59.8	36.04	1.214	99.9	0.502	1.923	330.0	498.7	0.958	---	-38.09	0.588	118.0	242.3	-37.4	0.528
4- 490	4- 810	0.788	131.1	-71.2	-40.79	1.180	99.1	0.421	1.657	328.7	519.6	0.959	---	39.80	0.533	103.6	239.2	44.9	0.470
4- 490	4- 830	0.547	123.6	-58.4	-26.75	1.174	98.5	0.405	1.622	330.1	528.1	0.964	---	26.13	0.528	99.1	244.3	42.0	0.343
4- 490	4- 850	0.425	123.3	-48.6	-19.47	1.170	98.2	0.396	1.599	330.8	532.2	0.986	---	19.23	0.525	95.1	244.1	38.6	0.276
4- 490	4- 870	0.357	124.8	-40.3	-15.08	1.168	98.2	0.391	1.585	330.3	537.8	0.986	---	15.23	0.526	91.4	241.3	35.3	0.239
4- 490	4- 890	0.316	127.1	-33.1	-12.12	1.167	98.5	0.389	1.578	329.3	542.9	0.983	2.192	12.67	0.528	88.1	237.4	32.1	0.218
4- 490	4- 910	0.292	130.2	-26.5	-9.95	1.166	98.9	0.391	1.576	327.9	547.6	0.980	2.191	10.94	0.532	85.2	233.4	28.9	0.208
4- 490	4- 930	0.280	133.7	-20.6	-8.27	1.166	99.5	0.395	1.577	325.8	551.9	0.954	2.200	9.70	0.536	82.4	230.2	25.6	0.207
4- 490	4- 950	0.276	137.7	-15.3	-6.91	1.167	100.3	0.402	1.581	323.3	555.7	0.946	2.216	8.81	0.541	79.9	228.1	22.5	0.213
4- 490	4- 970	0.280	142.0	-10.6	-5.75	1.168	101.3	0.411	1.587	320.3	559.1	0.935	2.239	8.16	0.545	77.6	227.4	19.8	0.223
4- 490	4- 990	0.290	146.5	-6.7	-5.74	1.170	102.4	0.422	1.596	316.9	562.2	0.922	2.269	7.68	0.550	75.4	227.8	17.4	0.237
4- 490	4-1010	0.306	151.1	-3.5	-3.82	1.171	103.8	0.436	1.605	313.1	564.8	0.906	2.304	7.34	0.554	73.2	229.3	15.5	0.254
4- 490	4-1030	0.328	155.7	-1.0	-2.97	1.173	105.3	0.452	1.616	308.8	567.0	0.886	2.346	7.12	0.557	71.1	231.7	13.8	0.274
4- 490	4-1050	0.354	160.2	1.0	-2.16	1.175	107.1	0.470	1.628	304.2	568.9	0.862	2.394	7.00	0.560	68.9	234.8	12.5	0.295
4- 490	4-1070	0.387	164.5	2.3	-1.38	1.177	109.1	0.492	1.641	299.3	570.3	0.834	2.449	6.97	0.562	66.6	238.6	11.4	0.318
4- 490	4-1090	0.424	168.7	3.2	-0.59	1.179	111.3	0.517	1.655	294.0	571.4	0.800	2.510	7.03	0.564	64.3	242.8	10.4	0.343
4- 490	4-1110	0.468	172.7	3.7	0.21	1.181	113.8	0.544	1.669	288.4	572.1	0.761	2.578	7.18	0.564	61.8	247.4	9.7	0.369
4- 490	4-1130	0.517	176.6	3.8	1.05	1.184	116.6	0.576	1.685	282.4	572.4	0.715	2.654	7.42	0.565	59.0	252.5	9.0	0.398
4- 490	4-1150	0.573	180.4	3.7	1.95	1.186	119.7	0.610	1.700	276.1	572.3	0.663	2.738	7.76	0.565	56.0	257.8	8.5	0.429
4- 490	4-1170	0.635	184.1	3.3	2.94	1.188	123.1	0.648	1.717	269.4	571.7	0.604	2.830	8.26	0.565	52.8	263.5	8.0	0.462
4- 490	4-1190	0.704	187.7	2.6	4.05	1.191	127.0	0.689	1.734	262.3	570.7	0.539	2.930	8.90	0.564	49.2	269.5	7.6	0.498
4- 500	4- 660	0.564	159.8	27.6	7.19	1.428	107.2	1.03625.099		326.3	462.5	0.914	---	-10.31	0.935	142.5	249.4	-7.2	0.808
4- 500	4- 680	0.480	161.8	34.2	8.70	1.353	104.6	0.842	5.883	328.1	469.4	0.931	---	-11.45	0.819	I37.8	251.4	-9.2	0.681
4- 500	4- 700	0.429	165.4	42.6	10.64	1.299	102.3	0.705	3.204	330.1	476.7	0.945	---	-13.02	0.732	132.7	253.0	-12.0	0.581
4- 500	4- 720	0.410	172.4	52.3	13.25	1.261	100.4	0.607	2.436	332.4	484.3	0.957	---	-15.27	0.667	127.3	254.0	-16.1	0.504
4- 500	4- 740	0.429	187.3	61.8	17.03	1.233	98.7	0.536	2.085	334.9	492.1	0.967	---	-18.68	0.619	121.9	253.9	-22.0	0.450
4- 500	4- 760	0.503	216.8	67.0	23.06	1.213	97.3	0.485	1.892	337.4	499.9	0.975	---	-24.35	0.584	116.4	251.6	-30.3	0.427
4- 500	4- 780	0.677	250.4	62.1	34.09	1.199	96.1	0.447	1.775	340.0	507.5	0.981	---	-35.02	0.560	111.1	244.7	-40.3	0.464
4- 500	4- 800	1.070	269.6	45.9	57.75	1.188	94.8	0.419	1.700	343.5	515.2	0.988	---	-58.31	0.544	105.9	230.7	-44.7	0.633
4- 500	4- 840	0.824	117.1	-77.2	-43.34	1.176	96.5	0.397	1.620	336.9	527.3	0.977	---	43.53	0.530	98.1	237.7	47.6	0.490
4- 500	4- 860	0.546	116.7	-62.6	-27.27	1.173	96.1	0.388	1.600	338.0	533.4	0.980	---	27.84	0.529	94.1	241.9	45.7	0.344
4- 500	4- 880	0.410	119.6	-51.6	-19.20	1.171	96.1	0.383	1.588	337.9	539.0	0.979	---	20.16	0.530	90.6	240.9	41.8	0.274
4- 500	4- 900	0.335	123.2	-42.4	-14.44	1.170	96.3	0.382	1.583	336.9	544.0	0.978	2.188	15.81	0.533	87.5	237.8	37.5	0.238
4- 500	4- 920	0.293	127.4	-34.2	-11.29	1.170	96.8	0.384	1.582	335.4	548.6	0.975	2.189	13.08	0.536	84.7	234.4	33.2	0.221
4- 500	4- 940	0.269	132.2	-26.7	-9.01	1.170	97.4	0.388	1.584	333.2	552.7	0.970	2.199	11.25	0.541	82.2	231.6	29.0	0.216
4- 500	4- 960	0.258	137.3	-20.1	-7.26	1.171	98.2	0.394	1.590	330.6	556.4	0.963	2.216	9.98	0.545	79.8	229.9	25.2	0.218
4- 500	4- 980	0.256	142.8	-14.3	-5.84	1.172	99.2	0.402	1.597	327.5	559.7	0.955	2.239	9.03	0.550	77.7	229.5	21.9	0.226
4- 500	4-1000	0.263	148.3	-9.4	-4.65	1.174	100.3	0.412	1.606	324.0	562.7	0.944	2.268	8.35	0.554	75.6	230.2	19.1	0.238
4- 500	4-1020	0.276	153.9	-5.5	-3.61	1.176	101.6	0.425	1.617	320.1	565.2	0.930	2.303	7.88	0.558	73.6	231.9	16.8	0.253
4- 500	4-1040	0.294	159.2	-2.5	-2.67	1.177	103.1	0.439	1.628	315.8	567.4	0.914	2.343	7.51	0.561	71.7	234.4	14.9	0.270
4- 500	4-1060	0.319	164.4	-0.4	-1.81	1.179	104.8	0.456	1.641	311.2	569.2	0.893	2.389	7.29	0.563	69.7	237.6	13.4	0.289
4- 500	4-1080	0.348	169.3	1.1	-0.99	1.182	106.6	0.475	1.654	306.3	570.7	0.868	2.440	7.16	0.565	67.7	241.3	12.1	0.310
4- 500	4-1100	0.383	173.8	2.1	-0.19	1.184	108.7	0.497	1.668	301.1	571.8	0.839	2.498	7.13	0.566	65.6	245.5	11.1	0.332
4- 500	4-1120	0.423	178.2	2.5	0.60	1.186	111.0	0.522	1.683	295.8	572.6	0.805	2.562	7.18	0.567	63.3	250.1	10.3	0.355
4- 500	4-1140	0.468	182.2	2.6	1.41	1.188	113.6	0.550	1.699	289.8	573.1	0.765	2.632	7.32	0.567	60.9	255.0	9.6	0.381
4- 500	4-1160	0.518	186.1	2.4	2.25	1.190	116.4	0.580	1.714	283.7	573.1	0.719	2.709	7.56	0.567	58.3	260.2	9.0	0.407
4- 500	4-1180	0.574	189.8	1.9	3.14	1.193	119.5	0.614	1.731	277.3	572.8	0.668	2.794	7.90	0.566	55.5	265.7	8.4	0.436
4- 500	4-1200	0.636	193.4	1.3	4.11	1.195	122.9	0.651	1.748	270.6	572.1	0.610	2.886	8.37	0.565	52.3	271.5	8.0	0.467
4- 510	4- 650	0.614	160.5	23.0	5.70	1.514	105.8	1.267-3.487		331.9	465.6	0.931	---	-8.51	1.057	145.2	250.0	-5.5	0.928
4- 510	4- 670	0.501	161.4	28.1	6.69	1.412	103.2	0.99090.194		333.5	462.4	0.945	---	-9.10	0.909	I40.8	252.1	-6.8	0.771
4- 510	4- 690	0.424	162.4	34.9	7.87	1.342	100.8	0.802	4.841	335.6	469.8	0.957	---	-9.88	0.799	I36.0	254.0	-8.5	0.647
4- 510	4- 710	0.376	164.2	43.2	9.30	1.291	98.8	0.672	2.952	338.0	477.6	0.968	---	-10.93	0.716	I30.9	255.6	-10.8	0.550
4- 510	4- 730	0.354	168.1	52.6	11.12	1.255	97.1	0.580	2.326	340.7	485.6	0.976	---	-12.36	0.655	I25.5	256.7	-14.0	0.473
4- 510	4- 750	0.358	176.8	62.2	13.54	1.230	95.7	0.515	2.024	343.3	493.7	0.983	---	-14.42	0.610	120.0	256.9	-18.5	0.414
4- 510	4- 770	0.393	196.5	69.9	17.02	1.211	94.5	0.468	1.855	345.8	501.7	0.987	---	-17.52	0.578	I14.6	255.9	-24.9	0.376
4- 510	4- 790	0.472	231.3	71.8	22.47	1.198	93.6	0.434	1.751	348.2	509.5	0.991	---	-22.61	0.557	I09.4	252.7	-33.5	0.366
4- 510	4- 810	0.635	261.7	65.0	32.28	1.189	92.8	0.411	1.685	350.4	517.0	0.993	---	-32.04	0.543	I04.5	245.7	-42.9	0.410
4- 510	4- 830	0.992	277.9	49.6	53.26	1.182	92.0	0.394	1.642	353.1	524.2	0.995	---	-52.65	0.535	99.8	234.0	-47.0	0.573
4- 510	4- 870	0.847	89.7	-79.2	-44.85	1.175	94.1	0.382	1.599	345.0	534.8	0.988	---	46.22	0.531	93.2	237.4	48.8	0.509
4- 510	4- 890	0.536	108.5	-63.9	-26.97	1.173	93.9	0.378	1.590	345.6	540.4	0.988	2.191	28.73	0.533	89.8	239.8	47.6	0.347
4- 510	4- 910	0.389	115.8	-52.3	-18.32	1.173	94.2	0.377	1.586	344.8	545.4	0.987	2.185	20.47	0.536	86.8	238.0	43.0	0.275
4- 510	4- 930	0.312	122.1	-42.2	-13.35	1.173	94.6	0.379	1.587	343.1	549.8	0.985	2.189	15.91	0.540	84.1	235.2	37.6	0.241
4- 510	4- 950	0.269	128.4	-33.2	-10.10	1.174	95.3	0.383	1.591	340.9	553.8	0.982	2.200	13.09	0.545	81.8	232.8	32.4	0.228
4- 510	4- 970	0.246	135.0	-25.0	-7.79	1.175	96.1	0.389	1.598	338.1	557.3	0.977	2.218	11.22	0.549	79.6	231.5	27.8	0.226
4- 510	4- 990	0.237	141.9	-17.9	-6.02	1.176	97.1	0.396	1.606	334.8	560.5	0.970	2.242	9.91	0.553	77.6	231.4	23.8	0.231
4- 510	4-1010	0.239	148.8	-12.0	-4.60	1.178	98.2	0.405	1.616	331.2	563.3	0.961	2.271	8.98	0.557	75.7	232.4	20.5	0.240
4- 510	4-1030	0.248	155.5	-7.2	-3.41	1.180	99.5	0.416	1.627	327.2	565.7	0.950	2.305	8.30	0.561	73.9	234.3	17.9	0.253
4- 510	4-1050	0.264	162.0	-3.7	-2.38	1.182	100.9	0.429	1.640	322.9	567.8	0.936	2.343	7.81	0.564	72.1	236.9	15.8	0.268
4- 510	4-1070	0.286	168.0	-1.2	-1.45	1.184	102.5	0.444	1.653	318.2	569.6	0.919	2.387	7.48	0.566	70.3	240.2	14.1	0.285
4- 510	4-1090	0.313	173.6	0.4	-0.60	1.186	104.3	0.461	1.667	313.3	571.1	0.898	2.436	7.24	0.567	68.5	244.0	12.7	0.303
4- 510	4-1110	0.345	178.7	1.3	0.21	1.188	106.2	0.481	1.682	308.2	572.2	0.873	2.490	7.11	0.568	66.6	248.2	11.5	0.323
4- 510	4-1130	0.381	183.4	1.7	0.99	1.190	108.4	0.503	1.697	302.7	573.1	0.844	2.550	7.07	0.569	64.6	252.7	10.6	0.343
4- 510	4-1150	0.422	187.8	1.7	1.76	1.193	110.7	0.527	1.712	297.1	573.6	0.809	2.615	7.12	0.569	62.5	257.6	9.8	0.366
4- 510	4-1170	0.468	191.8	1.4	2.54	1.195	113.3	0.555	1.729	291.2	573.8	0.770	2.687	7.25	0.568	60.2	262.7	9.2	0.389

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THBT1	THBT2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 510	4-1190	0.519	195.6	0.9	3.35	1.197	116.1	0.585	1.745	285.1	573.7	0.725	2.766	7.46	0.567	57.7	288.0	8.6	0.414
4- 510	4-1210	0.575	199.2	0.2	4.20	1.199	119.2	0.618	1.762	278.7	573.3	0.674	2.850	7.78	0.566	55.0	273.6	8.2	0.441
4- 520	4- 660	0.545	161.2	24.2	5.56	1.490	101.3	1.199	-4.832	339.3	455.8	0.959	---	-7.60	1.020	143.6	252.6	-5.2	0.882
4- 520	4- 680	0.443	161.0	29.9	6.38	1.395	99.0	0.935	14.892	341.4	463.1	0.969	---	-8.00	0.880	139.1	254.5	-6.3	0.730
4- 520	4- 700	0.375	160.6	37.1	7.31	1.328	96.9	0.759	4.048	344.0	471.0	0.978	---	-8.52	0.775	E34.2	256.3	-7.7	0.612
4- 520	4- 720	0.333	160.3	45.5	8.41	1.282	95.1	0.637	2.714	346.8	479.2	0.984	---	-9.22	0.698	I28.9	257.7	-9.7	0.518
4- 520	4- 740	0.313	160.9	54.7	9.73	1.249	93.6	0.553	2.212	349.8	487.7	0.989	---	-10.17	0.641	I23.5	258.7	-12.3	0.442
4- 520	4- 760	0.313	164.2	63.7	11.41	1.225	92.4	0.494	1.959	352.7	496.1	0.992	---	-11.46	0.599	I18.0	258.9	-15.9	0.383
4- 520	4- 780	0.331	174.1	72.0	13.63	1.208	91.5	0.452	1.813	355.2	504.3	0.993	---	-13.31	0.571	I12.7	258.2	-20.9	0.340
4- 520	4- 800	0.373	201.2	77.7	16.78	1.197	90.8	0.423	1.724	357.4	512.1	0.994	---	-16.10	0.552	I07.6	256.0	-27.6	0.314
4- 520	4- 820	0.450	245.2	76.8	21.69	1.188	90.3	0.404	1.667	359.1	519.5	0.994	---	-20.64	0.540	I02.8	251.9	-36.1	0.315
4- 520	4- 840	0.599	272.2	68.6	30.43	1.183	89.9	0.390	1.631	0.5	186.3	---	---	-29.02	0.534	98.4	245.1	-44.8	0.364
4- 520	4- 860	0.924	285.7	53.8	49.23	1.179	89.4	0.382	1.608	2.1	172.8	---	---	-47.46	0.532	94.4	236.2	-48.6	0.521
4- 520	4- 900	0.853	68.1	-76.8	-45.23	1.176	92.0	0.376	1.589	352.8	542.0	0.992	2.185	47.76	0.535	88.8	238.4	49.2	0.523
4- 520	4- 920	0.515	102.0	-62.6	-25.81	1.176	92.0	0.375	1.588	352.6	546.9	0.992	2.183	28.72	0.539	85.9	238.5	47.9	0.348
4- 520	4- 940	0.362	113.5	-50.5	-16.83	1.176	92.5	0.377	1.590	351.0	551.1	0.991	2.190	20.13	0.543	83.4	236.1	42.3	0.276
4- 520	4- 960	0.285	122.3	-39.7	-11.82	1.177	93.1	0.380	1.596	348.7	554.9	0.989	2.203	15.51	0.548	81.2	234.0	36.0	0.246
4- 520	4- 980	0.244	130.8	-30.0	-8.60	1.178	94.0	0.386	1.604	345.7	558.3	0.986	2.223	12.71	0.552	79.2	233.0	30.3	0.236
4- 520	4-1000	0.225	139.2	-21.3	-6.33	1.180	94.9	0.392	1.614	342.4	561.3	0.981	2.247	10.88	0.557	77.4	233.2	25.6	0.237
4- 520	4-1020	0.220	147.7	-14.1	-4.60	1.182	96.1	0.400	1.625	338.6	563.9	0.975	2.278	9.58	0.560	75.6	234.4	21.7	0.244
4- 520	4-1040	0.225	156.0	-8.4	-3.23	1.184	97.3	0.410	1.637	334.5	566.3	0.986	2.309	8.67	0.564	74.0	236.5	18.7	0.254
4- 520	4-1060	0.237	163.7	-4.3	-2.08	1.186	98.8	0.422	1.651	330.1	568.3	0.955	2.347	8.01	0.566	72.4	239.3	16.3	0.267
4- 520	4-1080	0.256	170.9	-1.5	-1.09	1.188	100.3	0.435	1.665	325.4	570.0	0.941	2.389	7.53	0.568	70.8	242.7	14.4	0.282
4- 520	4-1100	0.281	177.3	0.2	-0.20	1.190	102.0	0.450	1.679	320.5	571.4	0.924	2.435	7.19	0.570	69.1	246.5	12.9	0.298
4- 520	4-1120	0.310	183.1	1.1	0.61	1.192	103.9	0.467	1.695	315.3	572.6	0.903	2.487	6.97	0.570	67.5	250.7	11.7	0.315
4- 520	4-1140	0.343	188.3	1.4	1.38	1.195	105.9	0.487	1.710	310.0	573.4	0.878	2.543	6.84	0.570	65.7	255.3	10.7	0.334
4- 520	4-1160	0.381	193.0	1.3	2.12	1.197	108.1	0.509	1.726	304.4	574.1	0.848	2.604	6.80	0.570	63.8	260.1	9.9	0.353
4- 520	4-1180	0.423	197.3	0.8	2.85	1.199	110.4	0.533	1.743	298.6	574.4	0.814	2.671	6.83	0.569	61.8	265.1	9.2	0.373
4- 520	4-1200	0.469	201.3	0.2	3.58	1.201	113.0	0.559	1.759	292.7	574.4	0.775	2.743	6.94	0.568	59.6	270.3	8.6	0.395
4- 520	4-1220	0.520	205.0	-0.7	4.33	1.204	115.8	0.589	1.776	286.6	574.2	0.731	2.822	7.14	0.567	57.2	275.7	8.1	0.418
4- 530	4- 650	0.618	160.3	21.8	4.88	1.592	98.6	1.505	-1.928	345.7	449.5	0.973	---	-6.51	1.162	I46.1	252.9	-4.1	1.022
4- 530	4- 670	0.484	159.5	26.7	5.51	1.463	96.5	1.119	-8.210	347.6	456.7	0.979	---	-6.69	0.979	142.0	254.8	-4.8	0.832
4- 530	4- 690	0.395	157.7	33.0	6.19	1.375	94.6	0.874	7.844	350.2	464.6	0.985	---	-6.94	0.847	I37.4	256.6	-5.8	0.688
4- 530	4- 710	0.338	155.1	40.6	6.94	1.314	92.8	0.712	3.436	353.3	473.1	0.989	---	-7.29	0.749	I32.3	258.1	-7.0	0.575
4- 530	4- 730	0.305	151.9	48.7	7.80	1.271	91.3	0.602	2.493	356.6	481.9	0.991	---	-7.75	0.677	I26.9	259.3	-8.6	0.485
4- 530	4- 750	0.289	148.6	56.9	8.79	1.241	90.0	0.527	2.098	359.9	490.7	0.992	---	-8.36	0.624	I21.4	260.0	-10.8	0.413
4- 530	4- 770	0.288	146.0	64.7	10.00	1.220	89.0	0.476	1.890	3.0	139.4	---	---	-9.19	0.587	I15.8	260.0	-13.7	0.355
4- 530	4- 790	0.300	145.7	71.9	11.51	1.205	88.3	0.440	1.768	5.5	147.7	---	---	-10.34	0.582	I10.5	259.1	-17.7	0.311
4- 530	4- 810	0.323	151.9	78.6	13.50	1.194	87.8	0.416	1.693	7.5	155.4	---	---	-11.97	0.545	I05.5	257.1	-22.9	0.280
4- 530	4- 830	0.364	184.6	84.1	16.31	1.187	87.5	0.399	1.646	8.8	162.6	---	---	-14.43	0.536	100.9	253.6	-29.6	0.266
4- 530	4- 850	0.433	257.3	82.2	20.66	1.182	87.3	0.389	1.616	9.5	169.1	---	---	-18.43	0.532	96.8	248.7	-37.5	0.274
4- 530	4- 870	0.565	281.7	73.1	28.39	1.180	87.3	0.382	1.598	9.7	175.1	---	---	-25.81	0.531	93.0	242.8	-45.4	0.324
4- 530	4- 890	0.858	292.8	58.6	45.24	1.178	87.2	0.379	1.589	10.1	180.6	---	2.191	-42.31	0.533	89.6	237.6	-49.5	0.472
4- 530	4- 930	0.841	61.3	-72.5	-44.41	1.178	90.0	0.375	1.587	359.9	548.4	0.992	2.183	48.04	0.540	85.0	240.6	49.1	0.529
4- 530	4- 950	0.480	99.5	-59.2	-23.77	1.179	90.3	0.377	1.592	358.9	552.6	0.992	2.193	27.75	0.545	82.6	238.1	46.9	0.345
4- 530	4- 970	0.329	113.9	-46.4	-14.78	1.180	90.9	0.381	1.600	356.8	556.2	0.991	2.209	19.13	0.550	80.5	235.6	40.0	0.277
4- 530	4- 990	0.256	124.8	-34.8	-9.90	1.181	91.8	0.385	1.610	353.5	559.4	0.990	2.229	14.62	0.555	78.6	234.5	33.0	0.252
4- 530	4-1010	0.221	135.0	-24.4	-6.82	1.183	92.8	0.391	1.621	350.0	562.2	0.987	2.254	11.92	0.559	77.0	234.9	27.2	0.246
4- 530	4-1030	0.207	145.2	-15.6	-4.67	1.185	93.9	0.398	1.633	346.1	564.7	0.983	2.283	10.18	0.563	75.4	236.3	22.7	0.249
4- 530	4-1050	0.206	155.0	-8.7	-3.05	1.187	95.2	0.406	1.647	341.9	566.9	0.977	2.318	8.96	0.566	73.9	238.6	19.3	0.257
4- 530	4-1070	0.215	164.3	-3.9	-1.76	1.190	96.6	0.416	1.661	337.4	568.8	0.969	2.353	8.10	0.568	72.5	241.6	16.6	0.268
4- 530	4-1090	0.231	172.8	-0.7	-0.69	1.192	98.1	0.428	1.676	332.8	570.4	0.958	2.393	7.48	0.570	71.0	245.1	14.5	0.280
4- 530	4-1110	0.252	180.3	1.0	0.23	1.194	99.8	0.442	1.691	327.7	571.8	0.945	2.438	7.03	0.571	69.6	249.0	12.9	0.294
4- 530	4-1130	0.279	187.0	1.8	1.05	1.196	101.5	0.457	1.707	322.5	572.9	0.927	2.487	6.71	0.572	68.1	253.2	11.6	0.309
4- 530	4-1150	0.309	192.8	1.9	1.80	1.199	103.4	0.474	1.723	317.2	573.8	0.907	2.540	6.50	0.572	66.5	257.8	10.5	0.325
4- 530	4-1170	0.344	198.0	1.5	2.50	1.201	105.5	0.493	1.740	311.7	574.4	0.882	2.597	6.37	0.571	64.8	262.5	9.6	0.342
4- 530	4-1190	0.382	202.6	0.8	3.17	1.203	107.7	0.514	1.757	306.1	574.8	0.853	2.660	6.32	0.570	63.0	267.5	8.9	0.360
4- 530	4-1210	0.424	206.8	-0.0	3.83	1.206	110.1	0.538	1.774	300.3	575.0	0.820	2.727	6.34	0.569	61.1	272.6	8.4	0.379
4- 530	4-1230	0.470	210.6	-1.0	4.50	1.208	112.6	0.564	1.791	294.4	575.0	0.782	2.800	6.43	0.568	59.0	277.9	7.9	0.399
4- 540	4- 660	0.556	157.5	24.6	5.01	1.553	93.3	1.384	-2.566	354.3	460.8	0.986	---	-5.68	1.106	I44.7	256.9	-3.8	0.961
4- 540	4- 680	0.439	154.8	30.2	5.54	1.433	91.6	1.033	30.376	356.9	458.7	0.988	---	-5.77	0.935	I40.4	256.6	-4.4	0.781
4- 540	4- 700	0.365	150.6	36.9	6.10	1.353	89.9	0.811	5.231	0.2	107.3	---	---	-5.91	0.810	I35.6	258.2	-5.2	0.645
4- 540	4- 720	0.320	145.1	44.0	6.71	1.298	88.5	0.666	2.960	3.9	116.4	---	---	-6.11	0.719	130.3	259.4	-6.2	0.538
4- 540	4- 740	0.296	138.8	50.9	7.38	1.259	87.2	0.570	2.292	7.6	125.7	---	---	-6.40	0.653	124.7	260.3	-7.6	0.452
4- 540	4- 760	0.286	132.2	57.0	8.14	1.232	86.2	0.505	1.987	11.2	134.9	---	---	-6.79	0.605	119.1	260.6	-9.4	0.383
4- 540	4- 780	0.285	126.1	62.4	9.02	1.213	85.5	0.462	1.820	14.3	143.7	---	---	-7.31	0.973	I13.5	260.2	-11.7	0.328
4- 540	4- 800	0.292	121.2	67.4	10.07	1.200	85.0	0.432	1.721	16.7	151.8	---	---	-8.02	0.551	108.3	258.9	-14.8	0.285
4- 540	4- 820	0.305	118.0	72.3	11.39	1.191	84.7	0.413	1.660	18.3	159.3	---	---	-9.01	0.538	I03.3	256.4	-18.8	0.254
4- 540	4- 840	0.327	117.0	77.7	13.13	1.185	84.6	0.400	1.622	19.1	166.1	---	---	-10.41	0.531	98.9	252.9	-23.8	0.235
4- 540	4- 860	0.361	121.1	83.9	15.57	1.182	84.6	0.391	1.599	19.3	172.3	---	---	-12.53	0.528	94.9	248.4	-29.8	0.229
4- 540	4- 880	0.418	257.4	88.2	19.33	1.180	84.8	0.386	1.586	18.8	177.8	---	---	-15.98	0.529	91.4	243.6	-36.7	0.243
4- 540	4- 900	0.530	289.9	78.7	26.02	1.179	85.1	0.383	1.581	17.8	182.8	---	2.188	-22.35	0.532	88.2	239.4	-44.0	0.291
4- 540	4- 920	0.787	298.8	64.4	40.91	1.179	85.4	0.382	1.581	16.9	187.5	---	2.185	-36.92	0.536	85.4	238.0	-49.2	0.424
4- 540	4- 960	0.808	63.1	-67.7	-42.30	1.181	88.3	0.380	1.593	6.3	194.0	---	2.198	46.92	0.547	81.7	243.4	48.8	0.525
4- 540	4- 980	0.433	101.4	-54.2	-20.87	1.182	88.8	0.383	1.602	4.5	197.5	---	2.216	25.82	0.552	79.7	238.5	44.7	0.336
4- 540	4-1000	0.291	117.3	-40.0	-12.20	1.184	89.6	0.387	1.614	1.4	200.5	---	2.238	17.48	0.556	78.0	236.5	36.3	0.276
4- 540	4-1020	0.228	129.7	-27.2	-7.65	1.186	90.6	0.392	1.626	357.8	563.2	0.989	2.264	13.25	0.561	76.4	236.6	29.0	0.258
4- 540	4-1040	0.201	141.4	-16.4	-4.82	1.188	91.8	0.398	1.640	353.7	565.5	0.988	2.293	10.77	0.565	75.0	238.2	23.5	0.255
4- 540	4-1060	0.193	152.9	-8.0	-2.86	1.191	93.1	0.405	1.655	349.4	567.5	0.984	2.328	9.16	0.568	73.7	240.6	19.5	0.260
4- 540	4-1080	0.197	163.7	-2.2	-1.40	1.193	94.4	0.414	1.670	344.8	569.3	0.979	2.362	8.06	0.570	72.4	243.8	16.5	0.269

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 540	4-1100	0.210	173.7	1.2	-0.24	1.195	95.9	0.424	1.686	340.0	570.9	0.971	2.401	7.28	0.572	71.1	247.4	14.2	0.280
4- 540	4-1120	0.228	182.5	3.0	0.71	1.198	97.5	0.435	1.702	335.0	572.2	0.961	2.444	6.72	0.573	69.8	251.4	12.4	0.292
4- 540	4-1140	0.252	190.1	3.5	1.53	1.200	99.2	0.449	1.719	329.8	573.2	0.948	2.490	6.31	0.573	68.5	255.7	11.1	0.305
4- 540	4-1160	0.279	196.7	3.3	2.26	1.202	101.1	0.464	1.736	324.5	574.1	0.931	2.541	6.02	0.573	67.1	260.2	10.0	0.319
4- 540	4-1180	0.310	202.5	2.5	2.92	1.205	103.0	0.480	1.753	319.1	574.8	0.911	2.595	5.83	0.572	65.6	265.0	9.1	0.334
4- 540	4-1200	0.345	207.5	1.5	3.54	1.207	105.1	0.499	1.770	313.5	575.2	0.887	2.654	5.71	0.571	64.1	269.9	8.4	0.349
4- 540	4-1220	0.383	212.0	0.4	4.13	1.209	107.3	0.520	1.788	307.8	575.5	0.858	2.717	5.65	0.570	62.4	275.0	7.8	0.365
4- 540	4-1240	0.425	216.1	-0.9	4.71	1.212	109.6	0.542	1.805	302.1	575.5	0.826	2.784	5.66	0.568	60.6	280.1	7.3	0.382
4- 550	4- 670	0.515	151.7	28.1	5.20	1.511	87.7	1.255	-3.869	4.1	93.2	---	---	-4.80	1.047	143.4	256.5	-3.3	0.899
4- 550	4- 690	0.417	146.6	34.0	5.65	1.403	86.4	0.943	17.171	7.5	101.9	---	---	-4.81	0.887	138.9	257.9	-3.8	0.730
4- 550	4- 710	0.358	139.9	40.0	6.11	1.330	85.1	0.748	3.887	11.5	111.3	---	---	-4.87	0.771	133.7	259.1	-4.5	0.601
4- 550	4- 730	0.326	132.3	45.6	6.60	1.280	83.9	0.624	2.585	15.8	121.1	---	---	-4.97	0.687	128.2	260.1	-5.4	0.500
4- 550	4- 750	0.310	124.7	50.2	7.11	1.246	83.0	0.543	2.113	19.9	130.8	---	---	-5.13	0.627	122.5	260.5	-6.5	0.419
4- 550	4- 770	0.303	117.9	53.9	7.68	1.222	82.3	0.489	1.880	23.6	140.1	---	---	-5.36	0.585	116.7	260.3	-7.9	0.355
4- 550	4- 790	0.302	112.5	57.2	8.33	1.206	81.8	0.454	1.750	26.4	148.7	---	---	-5.68	0.556	111.1	259.3	-9.7	0.304
4- 550	4- 810	0.306	108.6	60.3	9.07	1.195	81.5	0.431	1.672	28.4	156.6	---	---	-6.10	0.538	105.8	257.3	-12.1	0.264
4- 550	4- 830	0.312	106.2	63.6	9.95	1.188	81.4	0.415	1.624	29.5	163.7	---	---	-6.69	0.528	101.0	254.4	-15.0	0.234
4- 550	4- 850	0.321	105.2	67.4	11.06	1.183	81.5	0.405	1.596	29.8	170.0	---	---	-7.50	0.524	96.7	250.4	-18.5	0.215
4- 550	4- 870	0.336	105.4	72.0	12.51	1.180	81.8	0.398	1.580	29.4	175.7	---	---	-8.66	0.524	92.9	245.9	-22.6	0.205
4- 550	4- 890	0.360	107.0	77.6	14.54	1.179	82.1	0.393	1.572	28.3	180.7	---	2.191	-10.41	0.526	89.5	241.4	-27.3	0.207
4- 550	4- 910	0.403	110.1	84.8	17.67	1.179	82.6	0.391	1.571	26.7	185.3	---	2.185	-13.27	0.530	86.6	237.7	-33.0	0.223
4- 550	4- 930	0.490	294.3	85.6	23.24	1.179	83.2	0.389	1.575	24.6	189.4	---	2.188	-18.57	0.536	84.1	235.7	-39.9	0.264
4- 550	4- 950	0.706	302.8	71.5	35.94	1.181	83.7	0.389	1.582	22.6	193.2	---	2.198	-31.00	0.541	81.8	237.6	-47.2	0.376
4- 550	4- 990	0.749	69.9	-63.0	-38.72	1.184	86.7	0.388	1.603	11.9	198.8	---	2.226	44.21	0.553	78.8	246.3	48.2	0.507
4- 550	4-1010	0.375	107.2	-47.2	-17.12	1.186	87.4	0.392	1.617	9.3	201.7	---	2.250	22.89	0.558	77.2	239.7	40.9	0.323
4- 550	4-1030	0.252	123.9	-30.7	-9.16	1.189	88.4	0.396	1.631	5.6	204.1	---	2.276	15.21	0.562	75.8	238.6	31.3	0.275
4- 550	4-1050	0.204	137.4	-16.6	-5.12	1.191	89.6	0.400	1.646	1.4	206.3	---	2.308	11.45	0.566	74.5	240.0	24.2	0.264
4- 550	4-1070	0.188	150.1	-6.1	-2.65	1.194	90.9	0.406	1.662	356.9	568.2	0.987	2.338	9.26	0.569	73.3	242.6	19.4	0.265
4- 550	4-1090	0.187	162.3	0.9	-0.96	1.196	92.3	0.414	1.679	352.2	569.9	0.985	2.373	7.87	0.571	72.2	245.9	15.9	0.271
4- 550	4-1110	0.195	173.5	4.8	0.30	1.198	93.7	0.422	1.696	347.3	571.3	0.980	2.411	6.92	0.573	71.1	249.6	13.5	0.280
4- 550	4-1130	0.210	183.6	6.4	1.28	1.201	95.3	0.432	1.713	342.3	572.5	0.973	2.453	6.24	0.574	69.9	253.7	11.6	0.291
4- 550	4-1150	0.230	192.4	6.6	2.10	1.203	97.0	0.443	1.730	337.1	573.6	0.963	2.497	5.76	0.574	68.8	258.1	10.2	0.302
4- 550	4-1170	0.254	199.9	5.9	2.79	1.206	98.7	0.456	1.748	331.8	574.4	0.951	2.545	5.40	0.574	67.5	262.6	9.1	0.314
4- 550	4-1190	0.282	206.3	4.7	3.41	1.208	100.6	0.471	1.766	326.4	575.1	0.934	2.597	5.15	0.573	66.2	267.4	8.3	0.327
4- 550	4-1210	0.313	211.9	3.2	3.96	1.211	102.6	0.487	1.783	320.9	575.6	0.915	2.652	4.97	0.572	64.9	272.3	7.6	0.340
4- 550	4-1230	0.347	216.8	1.6	4.48	1.213	104.6	0.505	1.801	315.4	575.9	0.892	2.711	4.86	0.570	63.4	277.3	7.0	0.354
4- 550	4-1250	0.384	221.2	0.0	4.97	1.215	106.8	0.525	1.819	309.7	576.0	0.865	2.774	4.81	0.569	61.8	282.4	6.5	0.368
4- 560	4- 660	0.641	148.8	26.4	5.12	1.621	82.6	1.581	-1.674	12.0	88.3	---	---	-3.90	1.196	146.5	256.2	-2.4	1.055
4- 560	4- 680	0.503	143.4	31.4	5.48	1.469	81.8	1.123	-7.860	15.4	97.0	---	---	-3.83	0.984	142.3	257.4	-2.8	0.837
4- 560	4- 700	0.424	136.3	36.5	5.84	1.371	80.9	0.856	6.639	19.7	106.7	---	---	-3.80	0.835	137.4	258.5	-3.2	0.679
4- 560	4- 720	0.380	128.5	40.9	6.20	1.306	80.0	0.692	3.080	24.5	116.9	---	---	-3.80	0.728	131.9	259.4	-3.7	0.558
4- 560	4- 740	0.356	121.0	44.4	6.58	1.262	79.2	0.589	2.286	29.2	127.2	---	---	-3.83	0.652	126.1	259.8	-4.4	0.463
4- 560	4- 760	0.344	114.7	47.1	6.96	1.232	78.6	0.524	1.954	33.4	137.1	---	---	-3.90	0.598	120.1	259.7	-5.2	0.388
4- 560	4- 780	0.339	109.8	49.2	7.38	1.212	78.2	0.482	1.781	36.8	146.2	---	---	-4.02	0.562	114.1	258.9	-6.3	0.329
4- 560	4- 800	0.336	106.4	51.1	7.83	1.198	78.0	0.455	1.682	39.2	154.4	---	---	-4.19	0.538	108.5	257.1	-7.6	0.282
4- 560	4- 820	0.336	104.4	53.1	8.34	1.189	78.0	0.437	1.623	40.6	161.7	---	---	-4.43	0.525	103.2	256.5	-9.2	0.246
4- 560	4- 840	0.336	103.6	55.3	8.92	1.183	78.1	0.425	1.587	41.0	168.2	---	---	-4.76	0.518	98.5	250.9	-11.2	0.220
4- 560	4- 860	0.337	103.8	58.0	9.62	1.180	78.4	0.416	1.568	40.7	173.9	---	---	-5.21	0.516	94.3	246.6	-13.3	0.203
4- 560	4- 880	0.340	105.0	61.2	10.49	1.178	78.8	0.410	1.558	39.6	179.1	---	---	-5.84	0.518	90.7	242.2	-15.8	0.194
4- 560	4- 900	0.347	107.2	65.1	11.62	1.178	79.3	0.405	1.557	38.0	183.6	---	2.186	-6.74	0.523	87.5	238.1	-18.6	0.193
4- 560	4- 920	0.360	110.8	70.2	13.20	1.178	79.9	0.402	1.560	35.8	187.8	---	2.187	-8.10	0.528	84.8	234.9	-21.9	0.199
4- 560	4- 940	0.387	116.6	76.8	15.64	1.180	80.7	0.400	1.567	33.2	191.5	---	2.194	-10.32	0.534	82.5	233.1	-26.3	0.214
4- 560	4- 960	0.447	133.1	85.7	20.00	1.181	81.5	0.399	1.577	30.2	194.9	---	2.207	-14.45	0.541	80.5	233.1	-32.9	0.245
4- 560	4- 980	0.612	300.0	80.3	30.14	1.183	82.3	0.399	1.589	27.2	198.0	---	2.224	-24.37	0.547	78.8	236.8	-42.4	0.328
4- 560	4-1020	0.660	80.6	-58.0	-33.32	1.188	85.2	0.398	1.618	16.8	202.8	---	2.263	39.51	0.558	76.3	248.6	46.9	0.472
4- 560	4-1040	0.309	116.7	-37.0	-12.56	1.191	86.2	0.402	1.634	13.4	205.1	---	2.291	18.97	0.563	75.0	241.5	35.2	0.307
4- 560	4-1060	0.218	133.6	-17.2	-5.73	1.193	87.4	0.405	1.651	9.1	207.1	---	2.320	12.36	0.566	73.9	242.0	25.1	0.274
4- 560	4-1080	0.190	147.5	-3.0	-2.38	1.196	88.7	0.410	1.669	4.5	208.9	---	2.352	9.24	0.569	72.8	244.5	18.9	0.270
4- 560	4-1100	0.184	160.6	5.6	-0.37	1.199	90.1	0.416	1.686	359.7	570.4	0.986	2.387	7.45	0.572	71.8	247.9	14.9	0.274
4- 560	4-1120	0.189	172.8	10.0	0.99	1.201	91.6	0.422	1.704	354.8	571.8	0.984	2.424	6.31	0.573	70.9	251.8	12.2	0.281
4- 560	4-1140	0.200	184.0	11.5	2.00	1.204	93.1	0.431	1.723	349.7	572.9	0.981	2.464	5.54	0.574	69.9	256.0	10.3	0.290
4- 560	4-1160	0.215	193.7	11.2	2.79	1.206	94.7	0.440	1.741	344.5	573.9	0.975	2.507	5.00	0.574	68.8	260.4	8.9	0.300
4- 560	4-1180	0.235	202.2	9.9	3.44	1.209	96.4	0.451	1.759	339.2	574.7	0.966	2.553	4.60	0.574	67.8	265.0	7.9	0.310
4- 560	4-1200	0.259	209.4	8.1	3.99	1.211	98.2	0.464	1.778	333.8	575.4	0.953	2.602	4.32	0.573	66.7	269.8	7.1	0.321
4- 560	4-1220	0.286	215.6	6.0	4.47	1.214	100.1	0.478	1.796	328.4	575.9	0.938	2.654	4.11	0.572	65.5	274.6	6.4	0.333
4- 560	4-1240	0.315	221.0	3.9	4.91	1.216	102.1	0.493	1.814	322.9	576.2	0.920	2.709	3.98	0.571	64.2	279.6	5.9	0.345
4- 560	4-1260	0.348	225.8	1.8	5.31	1.218	104.1	0.510	1.833	317.4	576.4	0.898	2.768	3.86	0.569	62.8	284.6	5.5	0.357
4- 570	4- 670	0.641	141.3	29.2	5.58	1.562	76.1	1.381	-2.453	24.0	92.8	---	---	-2.88	1.116	146.0	256.7	-1.8	0.982
4- 570	4- 690	0.525	134.4	33.4	5.86	1.425	75.7	0.999	95.335	28.6	102.7	---	---	-2.78	0.918	141.3	257.6	-2.0	0.778
4- 570	4- 710	0.461	126.9	37.1	6.12	1.338	75.2	0.779	4.126	33.9	113.4	---	---	-2.71	0.780	136.0	258.4	-2.3	0.630
4- 570	4- 730	0.426	120.0	39.8	6.39	1.281	74.7	0.648	2.549	39.2	124.3	---	---	-2.68	0.683	130.1	258.7	-2.7	0.517
4- 570	4- 750	0.406	114.3	41.8	6.65	1.242	74.3	0.568	2.047	44.0	134.7	---	---	-2.67	0.615	123.9	258.6	-3.2	0.429
4- 570	4- 770	0.395	110.0	43.3	6.92	1.217	74.1	0.518	1.814	47.8	144.2	---	---	-2.69	0.568	117.6	257.8	-3.8	0.360
4- 570	4- 790	0.388	107.1	44.5	7.19	1.200	74.0	0.486	1.688	50.6	152.7	---	---	-2.73	0.537	111.4	256.2	-4.5	0.306
4- 570	4- 810	0.383	105.5	45.7	7.49	1.189	74.0	0.466	1.616	52.1	160.2	---	---	-2.81	0.519	105.7	253.7	-5.3	0.265
4- 570	4- 830	0.378	104.8	47.0	7.81	1.182	74.2	0.451	1.573	52.7	166.8	---	---	-2.92	0.509	100.4	250.3	-6.3	0.234
4- 570	4- 850	0.373	105.0	48.5	8.17	1.178	74.6	0.441	1.550	52.4	172.6	---	---	-3.09	0.506	95.8	246.2	-7.4	0.212
4- 570	4- 870	0.368	105.9	50.2	8.58	1.176	75.1	0.433	1.539	51.4	177.7	---	---	-3.31	0.508	91.7	241.9	-8.5	0.198
4- 570	4- 890	0.363	107.7	52.3	9.07	1.175	75.7	0.427	1.536	49.7	182.3	---	2.192	-3.63	0.512	88.3	237.8	-9.7	0.192
4- 570	4- 910	0.359	110.1	54.8	9.68	1.176	76.4	0.422	1.539	47.5	186.4	---	2.189	-4.06	0.518	85.4	234.5	-11.0	0.191

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 570	4- 930	0.357	113.5	57.9	10.47	1.177	77.2	0.418	1.547	44.9	190.1	---	2.194	-4.68	0.525	82.9	232.1	-12.6	0.196
4- 570	4- 950	0.359	118.0	61.9	11.57	1.179	78.1	0.415	1.557	41.8	193.5	---	2.204	-5.63	0.532	80.8	231.0	-14.7	0.203
4- 570	4- 970	0.370	124.3	67.3	13.27	1.181	79.0	0.413	1.570	38.5	196.5	---	2.219	-7.16	0.539	79.0	231.1	-17.8	0.216
4- 570	4- 990	0.402	134.9	75.0	16.29	1.184	80.0	0.411	1.585	34.8	199.3	---	2.237	-10.04	0.546	77.5	232.6	-23.1	0.236
4- 570	4-1010	0.507	190.4	86.1	23.43	1.186	81.1	0.411	1.601	31.0	201.8	---	2.259	-17.02	0.552	76.1	236.4	-33.3	0.286
4- 570	4-1030	1.062	324.0	63.3	56.50	1.189	82.0	0.412	1.619	27.7	204.2	---	2.286	-49.94	0.558	74.8	253.9	-46.2	0.571
4- 570	4-1050	0.529	96.3	-51.3	-25.45	1.192	84.0	0.410	1.636	20.9	206.0	---	2.308	32.16	0.583	74.1	249.6	43.6	0.417
4- 570	4-1070	0.247	130.0	-20.3	-7.20	1.195	85.1	0.413	1.655	16.8	207.8	---	2.338	14.07	0.566	73.1	244.3	27.0	0.291
4- 570	4-1090	0.200	146.3	1.0	-1.96	1.198	86.4	0.416	1.674	12.1	209.5	---	2.370	8.98	0.569	72.2	246.5	17.9	0.275
4- 570	4-1110	0.191	159.8	12.0	0.51	1.201	87.9	0.420	1.693	7.2	210.9	---	2.404	6.66	0.572	71.4	249.9	13.1	0.277
4- 570	4-1130	0.192	172.4	16.9	1.98	1.203	89.3	0.425	1.712	2.2	212.2	---	2.440	5.35	0.573	70.5	253.9	10.3	0.283
4- 570	4-1150	0.199	184.0	18.2	2.96	1.206	90.9	0.432	1.731	357.1	573.3	0.984	2.479	4.52	0.574	69.7	258.2	8.4	0.291
4- 570	4-1170	0.210	194.4	17.5	3.68	1.209	92.5	0.439	1.751	351.8	574.2	0.981	2.520	3.97	0.574	68.8	262.7	7.1	0.299
4- 570	4-1190	0.224	203.6	15.5	4.24	1.211	94.2	0.449	1.770	346.6	575.0	0.976	2.564	3.57	0.574	67.9	267.4	6.2	0.308
4- 570	4-1210	0.243	211.6	12.9	4.70	1.214	95.9	0.459	1.789	341.2	575.6	0.968	2.610	3.28	0.573	66.9	272.1	5.5	0.318
4- 570	4-1230	0.265	218.5	10.1	5.09	1.216	97.7	0.471	1.808	335.8	576.1	0.957	2.660	3.07	0.572	65.9	277.0	4.9	0.327
4- 570	4-1250	0.290	224.4	7.3	5.43	1.219	99.5	0.484	1.827	330.4	576.5	0.942	2.712	2.92	0.571	64.7	281.9	4.5	0.337
4- 570	4-1270	0.318	229.7	4.6	5.74	1.221	101.5	0.499	1.846	325.0	576.8	0.925	2.767	2.81	0.569	63.5	286.9	4.1	0.348
4- 580	4- 700	0.577	127.1	33.9	6.35	1.381	69.4	0.893	7.986	43.9	110.6	---	---	-1.59	0.850	140.7	257.0	-1.2	0.724
4- 580	4- 720	0.522	120.8	36.2	6.51	1.304	69.3	0.722	3.013	49.9	122.1	---	---	-1.54	0.723	134.8	257.2	-1.3	0.585
4- 580	4- 740	0.490	115.6	37.7	6.66	1.255	69.3	0.623	2.178	55.3	133.0	---	---	-1.50	0.635	128.4	257.0	-1.5	0.481
4- 580	4- 760	0.471	111.9	38.8	6.81	1.222	69.3	0.564	1.853	59.6	143.0	---	---	-1.47	0.575	121.7	256.2	-1.8	0.400
4- 580	4- 780	0.458	109.4	39.7	6.96	1.201	69.4	0.527	1.692	62.5	151.7	---	---	-1.48	0.535	115.0	254.6	-2.1	0.337
4- 580	4- 800	0.447	108.0	40.5	7.11	1.187	69.6	0.503	1.603	64.3	159.3	---	---	-1.47	0.511	108.5	252.2	-2.5	0.289
4- 580	4- 820	0.438	107.5	41.3	7.26	1.179	70.0	0.486	1.553	64.9	165.9	---	---	-1.49	0.498	102.6	248.9	-2.9	0.254
4- 580	4- 840	0.429	107.7	42.1	7.43	1.174	70.4	0.474	1.526	64.6	171.6	---	---	-1.53	0.493	97.4	245.1	-3.3	0.228
4- 580	4- 860	0.419	108.5	43.0	7.61	1.172	71.0	0.464	1.513	63.5	176.7	---	---	-1.59	0.493	92.9	240.9	-3.7	0.211
4- 580	4- 880	0.409	109.9	44.0	7.80	1.171	71.7	0.456	1.509	61.8	181.2	---	2.197	-1.68	0.498	89.0	236.9	-4.1	0.202
4- 580	4- 900	0.399	111.8	45.2	8.03	1.172	72.5	0.449	1.512	59.6	185.2	---	2.192	-1.80	0.504	85.8	233.6	-4.6	0.199
4- 580	4- 920	0.388	114.3	46.7	8.30	1.173	73.3	0.443	1.521	56.9	188.9	---	2.195	-1.97	0.512	83.0	231.2	-5.0	0.200
4- 580	4- 940	0.377	117.3	48.3	8.63	1.175	74.3	0.438	1.532	53.8	192.2	---	2.204	-2.20	0.521	80.8	229.9	-5.6	0.204
4- 580	4- 960	0.367	121.1	50.3	9.06	1.178	75.3	0.434	1.546	50.4	195.3	---	2.217	-2.54	0.529	78.9	229.6	-6.3	0.210
4- 580	4- 980	0.359	125.6	52.9	9.65	1.180	76.4	0.430	1.562	46.7	198.0	---	2.234	-3.05	0.537	77.3	230.3	-7.3	0.218
4- 580	4-1000	0.355	131.4	56.3	10.57	1.183	77.6	0.427	1.580	42.7	200.6	---	2.254	-3.87	0.544	76.0	231.9	-9.0	0.228
4- 580	4-1020	0.360	139.4	61.5	12.19	1.187	78.8	0.425	1.598	38.6	202.9	---	2.277	-5.41	0.551	74.8	234.3	-12.1	0.239
4- 580	4-1040	0.400	153.5	70.7	16.02	1.190	80.0	0.423	1.618	34.2	205.0	---	2.302	-9.15	0.557	73.8	237.8	-19.1	0.260
4- 580	4-1060	0.722	298.3	80.5	36.10	1.193	81.2	0.423	1.637	29.9	206.9	---	2.330	-29.15	0.582	72.9	249.3	-41.0	0.399
4- 580	4-1080	0.350	119.8	-35.4	-13.86	1.196	82.8	0.422	1.657	24.4	208.5	---	2.357	20.89	0.566	72.2	249.0	34.3	0.341
4- 580	4-1100	0.217	147.3	7.0	-1.05	1.199	84.2	0.424	1.678	19.7	210.0	---	2.389	8.17	0.569	71.5	248.3	15.9	0.280
4- 580	4-1120	0.209	161.3	21.0	2.09	1.202	85.6	0.427	1.698	14.7	211.4	---	2.423	5.11	0.571	70.7	251.9	9.9	0.280
4- 580	4-1140	0.209	173.3	25.6	3.52	1.205	87.1	0.430	1.719	9.6	212.5	---	2.458	3.75	0.573	70.0	256.1	7.1	0.285
4- 580	4-1160	0.211	184.6	26.3	4.36	1.208	88.7	0.435	1.739	4.5	213.6	---	2.496	3.00	0.574	69.3	260.5	5.5	0.292
4- 580	4-1180	0.216	195.0	24.9	4.91	1.210	90.2	0.441	1.760	359.2	574.5	0.984	2.536	2.53	0.574	68.6	265.0	4.5	0.300
4- 580	4-1200	0.224	204.4	22.3	5.32	1.213	91.9	0.448	1.780	353.9	575.2	0.982	2.578	2.22	0.574	67.8	269.7	3.8	0.308
4- 580	4-1220	0.236	212.9	19.0	5.63	1.216	93.6	0.457	1.800	348.8	575.8	0.978	2.622	1.99	0.573	67.0	274.5	3.3	0.316
4- 580	4-1240	0.252	220.3	15.5	5.88	1.218	95.3	0.467	1.820	343.3	576.4	0.970	2.669	1.83	0.572	66.1	279.4	3.0	0.324
4- 580	4-1260	0.271	226.9	11.9	6.10	1.221	97.1	0.478	1.839	337.9	576.8	0.960	2.718	1.71	0.571	65.1	284.3	2.7	0.332
4- 580	4-1280	0.294	232.7	8.6	6.28	1.223	98.9	0.490	1.859	332.6	577.1	0.947	2.770	1.62	0.569	64.1	289.2	2.4	0.341
4- 590	4- 730	0.599	118.0	34.6	7.03	1.271	63.2	0.693	2.394	67.3	132.2	---	---	-0.23	0.864	133.8	255.0	-0.2	0.547
4- 590	4- 750	0.567	114.7	35.5	7.06	1.229	63.6	0.621	1.908	72.0	142.4	---	---	-0.22	0.585	126.7	254.1	-0.2	0.451
4- 590	4- 770	0.545	112.6	36.1	7.08	1.202	64.1	0.578	1.695	75.1	151.3	---	---	-0.21	0.533	119.4	252.5	-0.3	0.378
4- 590	4- 790	0.528	111.4	36.7	7.10	1.185	64.5	0.550	1.586	76.8	158.8	---	---	-0.21	0.500	112.2	250.1	-0.3	0.322
4- 590	4- 810	0.513	111.0	37.1	7.12	1.174	65.1	0.530	1.526	77.4	165.3	---	---	-0.21	0.482	105.5	247.0	-0.3	0.280
4- 590	4- 830	0.499	111.3	37.6	7.14	1.168	65.8	0.516	1.494	77.0	170.9	---	---	-0.21	0.475	99.4	243.3	-0.4	0.251
4- 590	4- 850	0.485	112.1	38.0	7.17	1.165	66.5	0.504	1.479	75.9	175.8	---	---	-0.21	0.475	94.2	239.3	-0.4	0.231
4- 590	4- 870	0.471	113.3	38.5	7.19	1.165	67.3	0.493	1.476	74.1	180.2	---	2.204	-0.22	0.479	89.8	235.5	-0.5	0.219
4- 590	4- 890	0.457	114.9	39.0	7.21	1.165	68.2	0.484	1.479	71.8	184.2	---	2.198	-0.22	0.487	86.1	232.8	-0.5	0.213
4- 590	4- 910	0.442	116.9	39.6	7.24	1.167	69.2	0.476	1.488	69.0	187.7	---	2.197	-0.24	0.496	83.1	230.0	-0.5	0.212
4- 590	4- 930	0.426	119.3	40.2	7.27	1.170	70.2	0.469	1.501	65.9	191.0	---	2.205	-0.25	0.506	80.6	228.6	-0.6	0.215
4- 590	4- 950	0.410	122.1	40.8	7.31	1.172	71.3	0.462	1.517	62.5	194.0	---	2.217	-0.28	0.516	78.5	228.3	-0.6	0.219
4- 590	4- 970	0.393	125.3	41.5	7.36	1.176	72.5	0.456	1.534	58.8	196.8	---	2.233	-0.31	0.525	76.8	228.9	-0.7	0.225
4- 590	4- 990	0.377	128.9	42.3	7.42	1.179	73.7	0.450	1.553	54.8	199.3	---	2.252	-0.36	0.534	75.5	230.3	-0.8	0.232
4- 590	4-1010	0.360	133.0	43.1	7.50	1.183	75.0	0.445	1.573	50.6	201.7	---	2.274	-0.43	0.542	74.3	232.4	-0.9	0.240
4- 590	4-1030	0.344	137.8	44.0	7.63	1.186	76.3	0.441	1.594	46.3	203.8	---	2.297	-0.54	0.549	73.4	235.1	-1.2	0.247
4- 590	4-1050	0.329	143.4	45.1	7.85	1.190	77.6	0.438	1.615	41.7	205.7	---	2.323	-0.75	0.555	72.6	238.2	-1.6	0.255
4- 590	4-1070	0.318	150.2	47.0	8.36	1.193	79.0	0.436	1.637	37.0	207.5	---	2.351	-1.25	0.561	71.8	241.7	-2.5	0.262
4- 590	4-1090	0.332	161.4	54.8	10.97	1.196	80.4	0.435	1.659	32.1	209.1	---	2.380	-3.85	0.565	71.2	245.7	-7.6	0.272
4- 590	4-1110	0.250	156.2	28.4	3.56	1.200	81.9	0.434	1.681	27.2	210.5	---	2.411	3.57	0.568	70.6	249.7	6.9	0.278
4- 590	4-1130	0.253	168.1	37.0	5.91	1.203	83.3	0.435	1.703	22.1	211.7	---	2.444	1.23	0.570	70.0	253.8	2.3	0.283
4- 590	4-1150	0.247	177.6	37.3	6.40	1.206	84.9	0.437	1.724	17.0	212.9	---	2.478	0.76	0.572	69.4	258.3	1.4	0.289
4- 590	4-1170	0.241	187.0	35.9	6.62	1.209	86.4	0.440	1.746	11.8	213.8	---	2.515	0.55	0.573	68.9	262.8	1.0	0.296
4- 590	4-1190	0.238	196.3	33.4	6.74	1.212	88.0	0.445	1.767	6.5	214.7	---	2.554	0.44	0.573	68.2	267.4	0.8	0.302
4- 590	4-1210	0.238	205.2	30.1	6.82	1.214	89.6	0.450	1.789	1.3	215.4	---	2.594	0.37	0.573	67.6	272.2	0.6	0.309
4- 590	4-1230	0.242	213.6	26.2	6.88	1.217	91.3	0.457	1.810	356.0	576.0	0.983	2.637	0.32	0.573	66.9	276.9	0.5	0.315
4- 590	4-1250	0.250	221.3	22.0	6.93	1.220	92.9	0.465	1.830	350.7	576.5	0.979	2.681	0.29	0.572	66.2	281.8	0.5	0.322
4- 590	4-1270	0.262	228.3	17.8	6.96	1.222	94.7	0.474	1.851	345.4	577.0	0.973	2.728	0.26	0.571	65.3	286.7	0.4	0.329
4- 590	4-1290	0.278	234.6	13.7	7.00	1.225	96.4	0.485	1.871	340.2	577.3	0.964	2.777	0.25	0.569	64.5	291.6	0.4	0.336
4- 600	4- 720	0.741	121.0	32.1	7.88	1.297	55.8	0.780	2.847	80.2	132.1	---	---	1.34	0.710	140.5	252.7	0.9	0.639
4- 600	4- 740	0.688	118.1	32.9	7.73	1.239	56.9	0.693	2.006	85.0	142.6	---	---	1.25	0.603	133.1	251.7	1.1	0.519
4- 600	4- 760	0.652	116.2	33.4	7.59	1.203	57.8	0.642	1.707	88.2	151.4	---	---	1.18	0.533	125.2	250.1	1.2	0.430

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 620	4-1220	0.677	231.3	74.9	33.11	1.212	81.4	0.467	1.785	27.3	214.9	---	2.619	-27.06	0.569	66.6	283.3	-34.1	0.423
4- 620	4-1240	0.473	219.7	60.9	21.26	1.215	82.9	0.468	1.809	22.6	215.6	---	2.656	-15.39	0.569	66.2	282.7	-22.7	0.359
4- 620	4-1260	0.391	220.4	52.0	16.49	1.218	84.4	0.470	1.833	17.6	216.2	---	2.695	-10.80	0.569	65.9	286.0	-16.5	0.343
4- 620	4-1280	0.346	224.2	45.2	13.92	1.221	86.0	0.473	1.856	12.6	216.8	---	2.734	-8.39	0.569	65.5	290.2	-12.9	0.338
4- 620	4-1300	0.319	229.3	39.3	12.28	1.224	87.6	0.477	1.879	7.5	217.3	---	2.775	-6.94	0.568	65.0	294.7	-10.7	0.336
4- 620	4-1320	0.303	235.2	33.9	11.14	1.226	89.2	0.482	1.901	2.5	217.7	---	2.818	-5.97	0.567	64.5	299.3	-9.1	0.337
4- 630	4- 750	1.053	127.2	27.6	13.25	1.190	34.0	0.858	1.640	131.0	161.3	---	---	8.90	0.506	145.8	240.8	4.1	0.612
4- 630	4- 770	0.979	127.5	27.5	11.75	1.152	37.0	0.820	1.432	129.9	165.9	---	---	7.64	0.418	134.4	238.4	4.5	0.512
4- 630	4- 790	0.924	128.3	27.3	10.59	1.132	39.5	0.789	1.343	128.1	169.9	---	---	6.74	0.369	121.9	235.6	4.8	0.442
4- 630	4- 810	0.878	129.4	27.0	9.66	1.122	41.9	0.762	1.305	125.9	173.5	---	---	6.07	0.349	109.7	232.6	5.1	0.393
4- 630	4- 830	0.840	130.7	26.7	8.87	1.119	44.0	0.738	1.292	123.2	176.8	---	---	5.57	0.348	99.0	229.7	5.3	0.360
4- 630	4- 850	0.805	132.3	26.3	8.19	1.119	46.0	0.715	1.294	120.2	179.8	---	---	5.20	0.358	90.4	227.2	5.5	0.338
4- 630	4- 870	0.772	133.9	25.9	7.57	1.122	47.9	0.694	1.305	117.0	182.8	---	2.210	4.91	0.375	83.8	225.3	5.7	0.324
4- 630	4- 890	0.741	135.7	25.4	7.01	1.127	49.8	0.674	1.321	113.5	185.5	---	2.212	4.71	0.395	78.8	224.1	5.8	0.316
4- 630	4- 910	0.711	137.5	24.8	6.48	1.132	51.6	0.654	1.343	109.9	188.2	---	2.221	4.58	0.416	75.2	223.8	5.9	0.313
4- 630	4- 930	0.681	139.4	24.2	5.97	1.138	53.4	0.636	1.366	106.0	190.7	---	2.236	4.50	0.436	72.5	224.2	6.0	0.311
4- 630	4- 950	0.652	141.4	23.5	5.47	1.144	55.2	0.619	1.392	102.1	193.1	---	2.254	4.48	0.455	70.5	225.3	6.2	0.312
4- 630	4- 970	0.623	143.4	22.6	4.96	1.150	57.0	0.602	1.420	97.9	195.5	---	2.274	4.52	0.472	69.1	227.1	6.4	0.314
4- 630	4- 990	0.595	145.4	21.8	4.43	1.156	58.7	0.586	1.448	93.6	197.7	---	2.297	4.62	0.488	68.0	229.5	6.6	0.316
4- 630	4-1010	0.566	147.5	20.5	3.87	1.161	60.4	0.571	1.477	89.2	199.8	---	2.321	4.78	0.502	67.3	232.3	7.0	0.318
4- 630	4-1030	0.538	149.6	19.1	3.27	1.167	62.2	0.558	1.506	84.7	201.7	---	2.348	5.03	0.515	66.8	235.5	7.4	0.321
4- 630	4-1050	0.509	151.7	17.3	2.58	1.172	63.9	0.545	1.536	80.1	203.6	---	2.372	5.37	0.526	66.5	239.0	8.0	0.324
4- 630	4-1070	0.481	153.8	15.1	1.79	1.178	65.5	0.533	1.565	75.4	205.3	---	2.399	5.85	0.535	66.2	242.8	8.8	0.327
4- 630	4-1090	0.454	155.8	12.3	0.85	1.183	67.2	0.523	1.594	70.6	206.9	---	2.428	6.49	0.543	66.1	246.9	9.8	0.330
4- 630	4-1110	0.428	157.5	8.5	-0.34	1.187	68.9	0.513	1.623	65.8	208.4	---	2.457	7.40	0.549	66.0	251.2	11.2	0.333
4- 630	4-1130	0.404	158.7	3.2	-1.91	1.192	70.5	0.505	1.652	60.9	209.8	---	2.486	8.70	0.554	65.9	255.8	13.1	0.338
4- 630	4-1150	0.386	158.9	-4.4	-4.15	1.196	72.1	0.498	1.680	55.9	211.0	---	2.517	10.68	0.559	65.9	260.7	15.9	0.345
4- 630	4-1170	0.383	156.7	-15.9	-7.67	1.200	73.7	0.493	1.708	51.0	212.1	---	2.549	13.95	0.562	65.8	266.1	20.2	0.358
4- 630	4-1190	0.427	148.2	-32.3	-14.16	1.204	75.2	0.489	1.735	46.2	213.1	---	2.583	20.20	0.564	65.7	273.0	27.1	0.389
4- 630	4-1210	0.641	120.5	-47.5	-29.69	1.208	76.6	0.486	1.762	41.8	214.0	---	2.618	35.49	0.566	65.5	285.5	37.7	0.489
4- 630	4-1250	0.886	248.8	81.9	45.18	1.214	80.9	0.477	1.813	28.5	215.5	---	2.678	-39.83	0.567	65.6	298.0	-39.8	0.517
4- 630	4-1270	0.577	228.5	65.5	27.28	1.217	82.2	0.478	1.838	24.2	216.2	---	2.718	-22.16	0.567	65.3	292.8	-29.2	0.398
4- 630	4-1290	0.453	227.8	55.2	20.15	1.220	83.7	0.480	1.863	19.5	216.7	---	2.756	-15.25	0.567	65.0	294.7	-21.8	0.365
4- 630	4-1310	0.388	230.7	47.6	16.38	1.223	85.3	0.482	1.886	14.6	217.3	---	2.796	-11.71	0.567	64.7	298.3	-17.2	0.352
4- 630	4-1330	0.349	235.1	41.3	14.04	1.226	86.8	0.485	1.910	9.8	217.7	---	2.837	-9.59	0.566	64.3	302.5	-14.2	0.346
4- 640	4- 760	1.160	131.2	26.0	17.28	1.163	26.5	0.908	1.493	144.0	167.3	---	---	13.68	0.447	150.1	237.1	4.8	0.634
4- 640	4- 780	1.078	132.2	25.6	14.47	1.128	30.1	0.875	1.337	141.3	170.3	---	---	11.16	0.359	136.9	234.6	5.1	0.537
4- 640	4- 800	1.015	133.5	25.2	12.49	1.112	33.2	0.845	1.272	138.5	173.2	---	---	9.47	0.314	121.8	231.8	5.4	0.470
4- 640	4- 820	0.964	135.0	24.7	10.99	1.105	36.1	0.818	1.248	135.4	176.0	---	---	8.28	0.300	107.1	229.2	5.6	0.424
4- 640	4- 840	0.919	136.7	24.2	9.79	1.104	38.6	0.792	1.244	132.1	178.7	---	---	7.42	0.307	94.9	226.8	5.8	0.393
4- 640	4- 860	0.879	138.4	23.7	8.80	1.106	41.0	0.767	1.252	128.6	181.3	---	2.213	6.77	0.326	85.6	224.9	5.9	0.372
4- 640	4- 880	0.843	140.2	23.0	7.95	1.111	43.3	0.744	1.269	125.0	183.9	---	2.212	6.29	0.349	78.9	223.8	6.0	0.359
4- 640	4- 900	0.808	142.1	22.4	7.19	1.116	45.4	0.721	1.290	121.3	186.4	---	2.220	5.94	0.374	74.2	223.4	6.1	0.351
4- 640	4- 920	0.774	144.0	21.7	6.50	1.123	47.5	0.699	1.314	117.4	188.8	---	2.234	5.68	0.399	70.9	223.7	6.2	0.347
4- 640	4- 940	0.742	145.9	20.9	5.85	1.130	49.6	0.679	1.341	113.3	191.2	---	2.252	5.51	0.422	68.5	224.7	6.3	0.344
4- 640	4- 960	0.710	147.8	20.0	5.23	1.137	51.5	0.659	1.370	109.2	193.4	---	2.273	5.41	0.443	66.9	226.4	6.4	0.344
4- 640	4- 980	0.678	149.8	19.0	4.62	1.143	53.5	0.640	1.400	104.9	195.6	---	2.298	5.38	0.463	65.8	228.6	6.6	0.344
4- 640	4-1000	0.647	151.7	17.9	4.00	1.150	55.4	0.622	1.431	100.5	197.7	---	2.321	5.43	0.480	65.0	231.2	6.9	0.345
4- 640	4-1020	0.616	153.7	16.6	3.37	1.156	57.3	0.605	1.462	96.1	199.7	---	2.346	5.54	0.495	64.6	234.3	7.2	0.346
4- 640	4-1040	0.586	155.7	15.1	2.70	1.163	59.1	0.589	1.493	91.5	201.7	---	2.373	5.74	0.508	64.3	237.7	7.6	0.347
4- 640	4-1060	0.556	157.6	13.3	1.98	1.169	60.9	0.575	1.524	86.8	203.5	---	2.400	6.02	0.520	64.2	241.5	8.1	0.348
4- 640	4-1080	0.527	159.5	11.1	1.17	1.174	62.7	0.561	1.555	82.1	205.2	---	2.428	6.43	0.530	64.1	245.4	8.8	0.349
4- 640	4-1100	0.499	161.3	8.5	0.24	1.180	64.5	0.549	1.586	77.3	206.7	---	2.457	6.97	0.538	64.2	249.6	9.7	0.350
4- 640	4-1120	0.471	162.9	5.1	-0.86	1.185	66.2	0.538	1.617	72.5	208.2	---	2.487	7.72	0.545	64.2	254.0	10.8	0.352
4- 640	4-1140	0.446	164.1	0.8	-2.22	1.189	67.9	0.528	1.647	67.6	209.5	---	2.517	8.75	0.550	64.3	258.5	12.3	0.354
4- 640	4-1160	0.425	164.8	-5.0	-4.00	1.194	69.6	0.519	1.677	62.7	210.8	---	2.548	10.21	0.555	64.4	263.3	14.4	0.358
4- 640	4-1180	0.411	164.2	-13.0	-6.48	1.198	71.2	0.512	1.706	57.8	211.9	---	2.580	12.38	0.558	64.4	268.3	17.3	0.364
4- 640	4-1200	0.416	160.9	-23.9	-10.25	1.202	72.8	0.506	1.735	53.0	212.9	---	2.612	15.85	0.561	64.5	274.0	21.5	0.378
4- 640	4-1220	0.469	151.2	-37.8	-16.76	1.206	74.3	0.501	1.763	48.3	213.8	---	2.646	22.08	0.563	64.4	281.0	27.9	0.408
4- 640	4-1240	0.660	125.7	-48.6	-30.48	1.210	75.7	0.499	1.790	43.9	214.6	---	2.683	35.52	0.564	64.3	292.7	36.8	0.493
4- 640	4-1280	1.120	324.3	89.4	59.22	1.216	80.5	0.486	1.843	29.4	216.0	---	2.738	-54.71	0.565	64.8	314.2	-41.6	0.629
4- 640	4-1300	0.699	233.5	70.1	34.27	1.219	81.6	0.488	1.868	25.8	216.6	---	2.779	-30.02	0.565	64.5	304.2	-34.6	0.449
4- 640	4-1320	0.524	233.3	58.3	24.17	1.222	83.0	0.489	1.893	21.4	217.2	---	2.818	-20.19	0.565	64.2	303.9	-26.7	0.391
4- 640	4-1340	0.434	235.8	49.9	18.97	1.225	84.5	0.491	1.917	16.8	217.7	---	2.858	-15.25	0.565	63.9	306.6	-21.3	0.368
4- 650	4- 790	1.175	137.3	23.6	18.89	1.108	23.2	0.923	1.268	151.4	173.6	---	---	16.38	0.304	141.1	231.7	5.4	0.573
4- 650	4- 810	1.105	139.1	23.0	15.34	1.093	26.9	0.896	1.218	147.7	175.6	---	---	13.16	0.259	122.6	229.2	5.6	0.507
4- 650	4- 830	1.048	140.9	22.3	12.89	1.089	30.2	0.869	1.202	144.0	177.8	---	---	11.05	0.251	104.5	227.0	5.8	0.462
4- 650	4- 850	0.998	142.8	21.7	11.07	1.089	33.2	0.842	1.204	140.2	180.0	---	---	9.59	0.267	90.1	225.2	5.9	0.432
4- 650	4- 870	0.954	144.7	20.9	9.64	1.093	36.0	0.817	1.217	136.4	182.2	---	2.211	8.54	0.293	80.2	224.0	6.0	0.411
4- 650	4- 890	0.913	146.6	20.2	8.47	1.099	38.6	0.792	1.237	132.5	184.5	---	2.216	7.77	0.323	73.5	223.4	6.1	0.398
4- 650	4- 910	0.874	148.5	19.4	7.47	1.106	41.0	0.767	1.261	128.5	186.8	---	2.229	7.19	0.354	69.2	223.6	6.1	0.389
4- 650	4- 930	0.838	150.4	18.5	6.58	1.114	43.4	0.744	1.289	124.4	189.0	---	2.247	6.77	0.382	66.3	224.5	6.2	0.383
4- 650	4- 950	0.802	152.3	17.6	5.78	1.122	45.6	0.721	1.318	120.2	191.2	---	2.269	6.47	0.408	64.3	226.0	6.3	0.379
4- 650	4- 970	0.768	154.3	16.5	5.04	1.129	47.8	0.700	1.349	115.9	193.4	---	2.293	6.27	0.432	63.1	228.0	6.4	0.377
4- 650	4- 990	0.734	156.2	15.4	4.33	1.137	49.9	0.679	1.381	111.5	195.5	---	2.318	6.15	0.453	62.3	230.5	6.6	0.376
4- 650	4-1010	0.701	158.1	14.2	3.63	1.144	52.0	0.659	1.413	107.1	197.5	---	2.345	6.12	0.471	61.9	233.4	6.8	0.374
4- 650	4-1030	0.668	160.0	12.9	2.93	1.151	54.0	0.640	1.446	102.6	199.5	---	2.372	6.16	0.487	61.7	236.7	7.1	0.374
4- 650	4-1050	0.636	161.8	11.3	2.21	1.158	56.0	0.623	1.479	98.0	201.3	---	2.400	6.29	0.502	61.7	240.3	7.5	0.373
4- 650	4-1070	0.605	163.7	9.5	1.46	1.164	57.9	0.606	1.512	93.3	203.1	---	2.429	6.50	0.514	61.7	244.1	7.9	0.372
4- 650	4-1090	0.574	165.4	7.5	0.65	1.170	59.8	0.591	1.545	88.6	204.8	---	2.458	6.82	0.524	61.9	248.2	8.5	0.371

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 650	4-1110	0.545	167.1	5.0	-0.24	1.176	61.6	0.577	1.578	83.8	206.3	---	2.488	7.26	0.533	62.1	252.4	9.2	0.371
4- 650	4-1130	0.516	168.7	2.1	-1.27	1.181	63.4	0.564	1.610	79.0	207.8	---	2.518	7.86	0.540	62.3	256.8	10.2	0.370
4- 650	4-1150	0.490	170.0	-1.6	-2.47	1.186	65.2	0.552	1.642	74.2	209.1	---	2.548	8.66	0.546	62.6	261.3	11.4	0.371
4- 650	4-1170	0.466	170.9	-6.2	-3.95	1.191	67.0	0.542	1.673	69.3	210.4	---	2.579	9.76	0.551	62.8	266.0	12.9	0.372
4- 650	4-1190	0.447	171.1	-12.1	-5.84	1.196	68.6	0.533	1.703	64.4	211.5	---	2.611	11.29	0.555	63.0	270.9	15.0	0.374
4- 650	4-1210	0.437	169.9	-19.9	-8.41	1.200	70.3	0.525	1.733	59.6	212.5	---	2.643	13.52	0.557	63.1	276.1	17.8	0.380
4- 650	4-1230	0.447	166.1	-29.9	-12.18	1.204	71.9	0.519	1.762	54.9	213.4	---	2.677	16.97	0.560	63.2	281.8	21.8	0.392
4- 650	4-1250	0.500	156.0	-41.5	-18.34	1.208	73.4	0.514	1.791	50.3	214.3	---	2.711	22.81	0.561	63.3	288.7	27.6	0.419
4- 650	4-1270	0.659	133.2	-49.9	-30.08	1.211	74.8	0.511	1.819	46.0	215.1	---	2.748	34.24	0.562	63.2	299.2	35.4	0.487
4- 650	4-1330	0.846	232.0	75.1	42.73	1.221	81.0	0.497	1.898	27.3	217.0	---	2.840	-39.46	0.563	63.6	317.0	-38.7	0.513
4- 650	4-1350	0.605	236.6	61.5	28.78	1.223	82.3	0.498	1.922	23.4	217.5	---	2.880	-25.80	0.563	63.4	313.8	-31.2	0.423
4- 660	4- 800	1.270	142.7	21.5	27.05	1.092	16.6	0.960	1.221	160.3	176.0	---	---	25.33	0.256	147.7	230.0	5.4	0.618
4- 660	4- 820	1.193	144.8	20.7	20.02	1.078	20.6	0.937	1.178	156.0	177.3	---	---	18.66	0.206	125.1	227.9	5.6	0.552
4- 660	4- 840	1.130	146.8	19.8	15.78	1.074	24.4	0.913	1.166	151.8	178.9	---	---	14.78	0.202	101.6	226.0	5.7	0.506
4- 660	4- 860	1.076	148.9	19.0	12.91	1.076	27.7	0.888	1.172	147.7	180.7	---	2.212	12.30	0.226	84.5	224.7	5.8	0.475
4- 660	4- 880	1.027	150.9	18.1	10.82	1.081	30.9	0.862	1.188	143.6	182.7	---	2.212	10.60	0.261	73.9	224.0	5.8	0.453
4- 660	4- 900	0.983	152.9	17.2	9.19	1.089	33.8	0.837	1.210	139.4	184.7	---	2.222	9.39	0.298	67.6	224.0	5.9	0.439
4- 660	4- 920	0.941	154.9	16.3	7.87	1.097	36.5	0.812	1.236	135.2	186.8	---	2.240	8.52	0.333	63.7	224.7	5.9	0.428
4- 660	4- 940	0.901	156.9	15.3	6.75	1.105	39.1	0.787	1.265	131.0	188.9	---	2.261	7.87	0.365	61.3	226.0	6.0	0.421
4- 660	4- 960	0.863	158.8	14.2	5.77	1.114	41.6	0.763	1.297	126.7	191.0	---	2.286	7.40	0.394	59.9	227.8	6.1	0.415
4- 660	4- 980	0.826	160.7	13.1	4.89	1.122	44.0	0.740	1.329	122.3	193.1	---	2.313	7.06	0.420	59.1	230.1	6.2	0.411
4- 660	4-1000	0.790	162.6	11.9	4.07	1.130	46.3	0.718	1.363	117.9	195.1	---	2.341	6.83	0.442	58.7	232.9	6.3	0.408
4- 660	4-1020	0.755	164.5	10.7	3.29	1.138	48.5	0.696	1.397	113.4	197.1	---	2.369	6.70	0.462	58.6	236.0	6.5	0.405
4- 660	4-1040	0.721	166.3	9.2	2.54	1.146	50.7	0.676	1.431	108.8	199.0	---	2.399	6.66	0.479	58.7	239.4	6.8	0.402
4- 660	4-1060	0.687	168.1	7.7	1.78	1.153	52.8	0.657	1.466	104.2	200.8	---	2.428	6.71	0.494	58.9	243.1	7.1	0.400
4- 660	4-1080	0.655	169.9	6.0	1.01	1.160	54.9	0.638	1.500	99.6	202.6	---	2.458	6.84	0.507	59.2	247.0	7.5	0.397
4- 660	4-1100	0.623	171.6	4.0	0.20	1.166	56.8	0.621	1.535	94.8	204.2	---	2.488	7.06	0.518	59.5	251.1	8.0	0.395
4- 660	4-1120	0.592	173.2	1.7	-0.66	1.172	58.8	0.606	1.569	90.1	205.8	---	2.519	7.39	0.527	59.9	255.4	8.6	0.392
4- 660	4-1140	0.562	174.7	-0.9	-1.61	1.178	60.7	0.591	1.602	85.3	207.2	---	2.549	7.85	0.535	60.3	259.8	9.4	0.390
4- 660	4-1160	0.534	176.1	-4.1	-2.69	1.183	62.5	0.578	1.635	80.5	208.6	---	2.580	8.47	0.541	60.7	264.3	10.3	0.388
4- 660	4-1180	0.509	177.1	-7.8	-3.94	1.188	64.3	0.566	1.668	75.7	209.8	---	2.612	9.30	0.546	61.1	268.9	11.5	0.387
4- 660	4-1200	0.486	177.8	-12.5	-5.46	1.193	66.0	0.555	1.699	70.9	210.9	---	2.643	10.41	0.550	61.4	273.6	13.1	0.386
4- 660	4-1220	0.469	177.7	-18.3	-7.37	1.197	67.8	0.546	1.731	66.1	212.0	---	2.676	11.93	0.553	61.7	278.5	15.1	0.387
4- 660	4-1240	0.462	176.3	-25.6	-9.91	1.201	69.4	0.538	1.761	61.4	213.0	---	2.709	14.11	0.556	61.9	283.7	17.8	0.391
4- 660	4-1260	0.472	172.3	-34.5	-13.51	1.205	71.0	0.532	1.790	56.7	213.8	---	2.742	17.36	0.558	62.1	289.3	21.5	0.401
4- 660	4-1280	0.520	162.7	-44.4	-19.10	1.209	72.5	0.526	1.819	52.2	214.7	---	2.777	22.61	0.559	62.2	296.0	26.7	0.423
4- 660	4-1300	0.648	142.5	-51.6	-28.93	1.212	73.9	0.523	1.847	48.0	215.4	---	2.813	32.11	0.560	62.2	305.3	33.6	0.476
4- 660	4-1320	0.964	114.2	-47.1	-49.01	1.216	75.1	0.522	1.875	44.5	216.1	---	2.853	51.87	0.561	62.0	321.4	39.7	0.610
4- 660	4-1360	1.026	214.1	79.6	53.36	1.222	80.4	0.505	1.927	28.8	217.3	---	2.901	-51.13	0.561	62.9	331.3	-40.8	0.595
4- 670	4- 830	1.279	150.5	18.2	28.75	1.066	14.6	0.968	1.149	163.4	178.4	---	---	28.21	0.157	130.4	227.5	5.4	0.601
4- 670	4- 850	1.210	152.8	17.2	20.53	1.062	18.6	0.949	1.139	159.0	179.5	---	---	20.36	0.154	98.5	226.1	5.5	0.554
4- 670	4- 870	1.152	155.0	16.2	15.70	1.065	22.3	0.926	1.146	154.4	181.0	---	2.208	15.93	0.187	77.4	225.3	5.5	0.521
4- 670	4- 890	1.099	157.2	15.2	12.51	1.071	25.8	0.903	1.163	150.3	182.7	---	2.213	13.14	0.231	66.5	225.0	5.6	0.498
4- 670	4- 910	1.052	159.3	14.2	10.21	1.078	29.0	0.878	1.187	145.9	184.6	---	2.229	11.27	0.274	60.8	225.4	5.6	0.481
4- 670	4- 930	1.007	161.3	13.1	8.44	1.087	32.0	0.853	1.214	141.6	186.5	---	2.250	9.95	0.314	57.7	226.4	5.6	0.469
4- 670	4- 950	0.965	163.3	12.0	7.02	1.097	34.9	0.828	1.245	137.2	188.5	---	2.275	8.99	0.349	56.0	228.0	5.6	0.460
4- 670	4- 970	0.924	165.3	10.9	5.82	1.106	37.6	0.804	1.277	132.8	190.5	---	2.303	8.30	0.380	55.1	230.1	5.7	0.452
4- 670	4- 990	0.885	167.2	9.7	4.78	1.115	40.2	0.780	1.311	128.4	192.5	---	2.333	7.79	0.408	54.8	232.7	5.8	0.446
4- 670	4-1010	0.847	169.0	8.5	3.85	1.124	42.7	0.756	1.346	123.9	194.4	---	2.363	7.43	0.432	54.8	235.6	5.9	0.441
4- 670	4-1030	0.810	170.9	7.1	2.99	1.132	45.0	0.733	1.381	119.4	196.4	---	2.394	7.19	0.453	55.1	238.9	6.1	0.436
4- 670	4-1050	0.774	172.7	5.7	2.17	1.140	47.4	0.712	1.417	114.8	198.3	---	2.425	7.05	0.471	55.5	242.4	6.3	0.432
4- 670	4-1070	0.739	174.4	4.2	1.38	1.148	49.6	0.691	1.452	110.2	200.1	---	2.458	7.00	0.486	56.0	246.2	6.6	0.427
4- 670	4-1090	0.705	176.2	2.5	0.59	1.155	51.7	0.671	1.488	105.6	201.8	---	2.487	7.04	0.500	56.5	250.1	6.9	0.423
4- 670	4-1110	0.672	177.8	0.6	-0.21	1.162	53.8	0.653	1.524	100.9	203.5	---	2.518	7.18	0.511	57.1	254.2	7.4	0.418
4- 670	4-1130	0.640	179.4	-1.5	-1.04	1.168	55.9	0.636	1.559	96.2	205.0	---	2.550	7.40	0.521	57.6	258.5	7.9	0.414
4- 670	4-1150	0.610	181.0	-3.8	-1.93	1.174	57.8	0.620	1.594	91.4	206.5	---	2.581	7.73	0.529	58.2	262.9	8.5	0.410
4- 670	4-1170	0.581	182.4	-6.6	-2.90	1.180	59.7	0.605	1.628	86.7	207.8	---	2.613	8.19	0.536	58.7	267.4	9.2	0.406
4- 670	4-1190	0.553	183.6	-9.8	-3.98	1.185	61.6	0.592	1.662	81.9	209.1	---	2.645	8.80	0.541	59.2	271.9	10.2	0.402
4- 670	4-1210	0.528	184.5	-13.5	-5.24	1.190	63.4	0.580	1.694	77.2	210.3	---	2.677	9.61	0.546	59.7	276.6	11.3	0.400
4- 670	4-1230	0.507	185.1	-18.0	-6.73	1.194	65.2	0.569	1.727	72.5	211.4	---	2.709	10.68	0.549	60.1	281.3	12.8	0.398
4- 670	4-1250	0.491	184.9	-23.5	-8.58	1.199	66.9	0.559	1.758	67.8	212.4	---	2.742	12.14	0.552	60.4	286.2	14.7	0.397
4- 670	4-1270	0.484	183.5	-30.2	-10.99	1.203	68.5	0.551	1.789	63.1	213.3	---	2.775	14.17	0.554	60.7	291.2	17.2	0.399
4- 670	4-1290	0.493	179.7	-38.2	-14.30	1.207	70.1	0.544	1.819	58.6	214.1	---	2.809	17.12	0.556	60.9	296.7	20.6	0.406
4- 670	4-1310	0.532	171.1	-46.8	-19.22	1.210	71.6	0.539	1.848	54.2	214.9	---	2.843	21.69	0.557	61.1	303.0	25.2	0.423
4- 670	4-1330	0.631	153.4	-53.6	-27.31	1.214	73.1	0.535	1.876	50.0	215.6	---	2.879	29.45	0.558	61.2	311.2	31.4	0.462
4- 670	4-1350	0.862	127.0	-51.8	-42.48	1.217	74.3	0.533	1.903	46.3	216.3	---	2.917	44.28	0.558	61.1	324.2	38.0	0.555
4- 680	4- 860	1.289	158.8	14.5	29.50	1.052	13.0	0.975	1.120	165.6	179.9	---	---	30.15	0.108	94.7	227.1	5.1	0.604
4- 680	4- 880	1.226	161.1	13.4	20.32	1.055	16.9	0.957	1.127	161.1	181.0	---	2.205	21.36	0.151	68.1	226.6	5.1	0.569
4- 680	4- 900	1.170	163.4	12.2	15.08	1.061	20.7	0.937	1.144	156.6	182.5	---	2.215	16.53	0.203	57.7	226.7	5.1	0.544
4- 680	4- 920	1.119	165.6	11.1	11.67	1.069	24.2	0.914	1.167	152.1	184.1	---	2.235	13.54	0.252	53.2	227.4	5.2	0.525
4- 680	4- 940	1.072	167.7	9.9	9.25	1.079	27.5	0.890	1.195	147.7	185.9	---	2.260	11.58	0.295	51.1	228.7	5.2	0.511
4- 680	4- 960	1.027	169.7	8.8	7.42	1.088	30.6	0.866	1.226	143.2	187.8	---	2.289	10.18	0.333	50.3	230.6	5.2	0.499
4- 680	4- 980	0.985	171.7	7.6	5.94	1.098	33.5	0.842	1.259	138.7	189.7	---	2.319	9.19	0.367	50.1	232.9	5.3	0.490
4- 680	4-1000	0.944	173.6	6.3	4.71	1.108	36.3	0.817	1.294	134.2	191.7	---	2.352	8.47	0.396	50.3	235.6	5.3	0.482
4- 680	4-1020	0.904	175.5	5.0	3.65	1.117	38.9	0.793	1.330	129.7	193.6	---	2.384	7.95	0.421	50.8	238.6	5.5	0.475
4- 680	4-1040	0.866	177.3	3.7	2.69	1.126	41.5	0.770	1.366	125.2	195.5	---	2.417	7.57	0.443	51.4	242.0	5.6	0.468
4- 680	4-1060	0.828	179.1	2.3	1.82	1.134	43.9	0.747	1.402	120.6	197.4	---	2.450	7.33	0.462	52.1	245.6	5.8	0.461
4- 680	4-1080	0.792	180.9	0.7	0.99	1.142	46.3	0.725	1.439	116.0	199.2	---	2.483	7.18	0.478	52.9	249.4	6.0	0.455
4- 680	4-1100	0.757	182.6	-0.9	0.19	1.150	48.6	0.705	1.476	111.4	200.9	---	2.516	7.13	0.492	53.7	253.4	6.3	0.449
4- 680	4-1120	0.723	184.2	-2.7	-0.60	1.157	50.8	0.685	1.513	106.7	202.6	---	2.549	7.17	0.504	54.4	257.5	6.6	0.442

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 680	4-1140	0.690	185.9	-4.6	-1.40	1.164	52.9	0.666	1.549	102.0	204.1	---	2.581	7.29	0.514	55.2	281.8	7.1	0.436
4- 680	4-1160	0.658	187.4	-6.7	-2.23	1.170	54.9	0.649	1.585	97.4	205.6	---	2.613	7.51	0.523	55.9	286.1	7.6	0.430
4- 680	4-1180	0.628	188.9	-9.1	-3.11	1.176	56.9	0.633	1.620	92.7	207.0	---	2.646	7.83	0.530	56.6	270.5	8.2	0.425
4- 680	4-1200	0.599	190.2	-11.8	-4.06	1.181	58.8	0.618	1.655	88.0	208.3	---	2.678	8.27	0.536	57.2	275.0	8.9	0.419
4- 680	4-1220	0.572	191.4	-15.0	-5.11	1.187	60.7	0.605	1.689	83.3	209.5	---	2.710	8.84	0.540	57.8	279.6	9.8	0.414
4- 680	4-1240	0.548	192.3	-18.6	-6.32	1.191	62.5	0.593	1.722	78.6	210.6	---	2.743	9.61	0.544	58.4	284.2	10.9	0.410
4- 680	4-1260	0.528	192.8	-22.9	-7.74	1.196	64.3	0.582	1.754	74.0	211.6	---	2.775	10.61	0.547	58.8	288.9	12.2	0.406
4- 680	4-1280	0.512	192.7	-27.9	-9.48	1.200	66.0	0.572	1.786	69.4	212.6	---	2.808	11.95	0.550	59.2	293.7	14.0	0.404
4- 680	4-1300	0.504	191.5	-34.0	-11.68	1.204	67.6	0.564	1.817	64.9	213.5	---	2.842	13.77	0.552	59.6	298.7	16.3	0.405
4- 680	4-1320	0.510	188.3	-41.1	-14.63	1.208	69.2	0.557	1.847	60.5	214.3	---	2.875	16.36	0.553	59.8	303.9	19.3	0.409
4- 680	4-1340	0.539	181.1	-48.8	-18.85	1.211	70.7	0.551	1.876	56.1	215.1	---	2.909	20.23	0.555	60.0	309.8	23.3	0.420
4- 680	4-1360	0.612	166.1	-55.5	-25.41	1.214	72.1	0.546	1.904	52.0	215.8	---	2.945	26.46	0.556	60.2	317.0	28.7	0.447
4- 680	4-1380	0.777	141.5	-56.3	-36.86	1.218	73.4	0.543	1.932	48.2	216.5	---	2.981	37.57	0.556	60.2	327.4	35.3	0.509

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 920	4-1100	0.795	243.4	-21.6	-0.32	1.309	127.9	0.820	3.173	273.8	489.6	0.570	---	7.39	0.778	143.0	7.2	5.4	0.642
4- 920	4-1120	0.718	243.9	-20.0	0.89	1.260	125.3	0.739	2.268	273.4	495.7	0.592	---	6.45	0.689	137.6	8.9	5.6	0.534
4- 920	4-1140	0.662	244.4	-18.5	1.83	1.226	123.2	0.680	1.905	273.2	501.8	0.609	---	5.79	0.621	132.1	9.6	5.9	0.449
4- 920	4-1160	0.623	244.8	-17.1	2.59	1.202	121.7	0.638	1.718	273.0	507.7	0.622	---	5.31	0.568	126.5	9.2	6.4	0.381
4- 920	4-1180	0.597	245.3	-15.9	3.24	1.186	120.6	0.609	1.611	272.6	513.5	0.630	---	4.97	0.527	120.9	7.5	6.9	0.328
4- 920	4-1200	0.582	245.9	-14.8	3.81	1.175	120.0	0.590	1.546	272.1	519.0	0.634	---	4.72	0.495	115.2	4.4	7.3	0.288
4- 920	4-1220	0.575	246.5	-14.0	4.32	1.168	119.8	0.580	1.507	271.4	524.2	0.633	---	4.54	0.470	109.7	0.2	7.7	0.261
4- 920	4-1240	0.576	247.2	-13.3	4.79	1.163	119.9	0.577	1.483	270.4	529.0	0.628	---	4.42	0.450	104.2	355.2	7.9	0.245
4- 920	4-1260	0.583	248.0	-12.8	5.24	1.161	120.3	0.579	1.470	269.1	533.4	0.619	---	4.36	0.435	98.9	350.3	7.8	0.239
4- 920	4-1280	0.597	248.9	-12.5	5.67	1.160	121.0	0.587	1.464	267.4	537.4	0.605	---	4.34	0.423	93.6	346.1	7.6	0.243
4- 920	4-1300	0.616	250.0	-12.3	6.09	1.160	122.1	0.598	1.464	265.5	541.0	0.588	2.340	4.36	0.415	88.5	343.0	7.2	0.253
4- 920	4-1320	0.640	251.2	-12.3	6.51	1.160	123.3	0.614	1.468	263.2	544.2	0.586	2.369	4.42	0.408	83.4	341.3	6.7	0.268
4- 920	4-1340	0.668	252.5	-12.5	6.94	1.162	124.9	0.633	1.475	260.5	546.9	0.541	2.409	4.52	0.403	78.4	340.9	6.2	0.287
4- 920	4-1360	0.701	253.9	-12.7	7.39	1.164	126.7	0.655	1.485	257.6	549.2	0.512	2.457	4.67	0.400	73.5	341.6	5.8	0.309
4- 920	4-1380	0.739	255.5	-13.0	7.86	1.166	128.7	0.680	1.496	254.3	551.1	0.479	2.513	4.86	0.399	68.6	343.1	5.4	0.332
4- 920	4-1400	0.782	257.2	-13.4	8.37	1.168	131.1	0.707	1.509	250.6	552.5	0.442	2.576	5.11	0.398	63.6	345.5	5.1	0.358
4- 920	4-1420	0.828	259.0	-13.9	8.94	1.171	133.6	0.736	1.524	246.7	553.6	0.403	2.648	5.43	0.399	58.7	348.4	4.8	0.385
4- 920	4-1440	0.879	261.0	-14.4	9.57	1.174	136.5	0.766	1.540	242.4	554.3	0.360	2.720	5.83	0.400	53.7	351.9	4.6	0.413
4- 920	4-1460	0.935	263.1	-14.9	10.30	1.177	139.6	0.798	1.557	237.7	554.5	0.315	2.799	6.34	0.403	48.7	355.9	4.3	0.443
4- 920	4-1480	0.994	265.4	-15.4	11.16	1.180	143.0	0.829	1.575	232.8	554.4	0.269	2.882	6.99	0.406	43.7	0.2	4.1	0.474
4- 920	4-1500	1.058	267.7	-15.9	12.21	1.183	146.6	0.861	1.594	227.5	553.8	0.222	2.967	7.85	0.410	38.5	4.9	4.0	0.506
4- 920	4-1520	1.125	270.3	-16.5	13.55	1.187	150.5	0.891	1.614	221.9	552.9	0.176	3.053	8.99	0.415	33.3	9.8	3.8	0.539
4- 920	4-1540	1.195	273.0	-16.9	15.33	1.190	154.6	0.920	1.635	216.0	551.7	0.132	3.139	10.59	0.420	28.1	15.1	3.6	0.573
4- 920	4-1560	1.267	275.7	-17.4	17.87	1.194	159.0	0.945	1.657	209.8	550.1	0.092	3.223	12.94	0.427	22.9	20.6	3.5	0.608
4- 920	4-1580	1.341	278.6	-17.8	21.82	1.197	163.5	0.966	1.680	203.5	548.2	0.057	3.303	16.71	0.433	17.7	26.3	3.4	0.643
4- 930	4-1110	0.769	251.9	-21.8	0.42	1.317	126.0	0.821	3.365	278.1	487.2	0.604	---	6.76	0.788	142.4	11.7	5.1	0.636
4- 930	4-1130	0.694	252.3	-19.8	1.71	1.268	123.4	0.735	2.363	278.0	493.3	0.626	---	5.67	0.700	137.2	13.5	5.1	0.530
4- 930	4-1150	0.639	252.7	-18.1	2.64	1.234	121.4	0.673	1.969	277.9	499.5	0.643	---	4.94	0.632	131.9	14.4	5.2	0.444
4- 930	4-1170	0.600	253.1	-16.6	3.35	1.211	119.9	0.629	1.769	277.8	505.5	0.656	---	4.43	0.580	126.5	14.2	5.5	0.377
4- 930	4-1190	0.573	253.5	-15.3	3.94	1.194	118.8	0.598	1.654	277.6	511.3	0.685	---	4.06	0.539	121.1	12.9	5.8	0.323
4- 930	4-1210	0.557	253.9	-14.3	4.43	1.183	118.1	0.578	1.585	277.2	516.9	0.869	---	3.79	0.507	115.8	10.2	6.1	0.282
4- 930	4-1230	0.549	254.5	-13.4	4.85	1.176	117.8	0.565	1.541	276.6	522.2	0.670	---	3.59	0.482	110.6	6.3	6.4	0.253
4- 930	4-1250	0.548	255.1	-12.8	5.24	1.171	117.8	0.560	1.515	275.7	527.1	0.686	---	3.45	0.462	105.4	1.5	6.5	0.235
4- 930	4-1270	0.553	255.8	-12.3	5.59	1.168	118.2	0.561	1.500	274.5	531.6	0.659	---	3.36	0.446	100.4	356.6	6.5	0.227
4- 930	4-1290	0.564	256.6	-12.0	5.92	1.167	118.7	0.566	1.493	273.1	535.8	0.648	---	3.30	0.434	95.5	352.1	6.3	0.227
4- 930	4-1310	0.579	257.5	-11.9	6.24	1.166	119.6	0.575	1.491	271.3	539.5	0.683	---	3.27	0.425	90.7	348.7	5.9	0.234
4- 930	4-1330	0.600	258.6	-12.0	6.55	1.167	120.7	0.588	1.494	269.2	542.8	0.615	2.373	3.28	0.418	86.0	346.5	5.6	0.247
4- 930	4-1350	0.624	259.8	-12.2	6.85	1.168	122.0	0.605	1.500	266.8	545.7	0.593	2.407	3.31	0.413	81.4	345.5	5.2	0.263
4- 930	4-1370	0.652	261.1	-12.4	7.17	1.170	123.5	0.624	1.509	264.1	548.3	0.568	2.450	3.36	0.409	76.8	345.7	4.8	0.281
4- 930	4-1390	0.685	262.6	-12.8	7.49	1.172	125.3	0.645	1.519	261.1	550.4	0.539	2.500	3.47	0.407	72.3	346.9	4.5	0.302
4- 930	4-1410	0.721	264.1	-13.2	7.83	1.174	127.3	0.669	1.531	257.8	552.2	0.506	2.556	3.59	0.406	67.8	348.8	4.2	0.325
4- 930	4-1430	0.762	265.8	-13.6	8.19	1.176	129.5	0.695	1.545	254.2	553.6	0.471	2.619	3.76	0.406	63.3	351.3	3.9	0.348
4- 930	4-1450	0.806	267.6	-14.1	8.58	1.179	132.0	0.723	1.560	250.3	554.6	0.432	2.687	3.96	0.407	58.8	354.4	3.7	0.374
4- 930	4-1470	0.855	269.6	-14.6	9.01	1.182	134.7	0.752	1.575	246.1	555.3	0.391	2.760	4.23	0.409	54.2	358.0	3.5	0.400
4- 930	4-1490	0.907	271.6	-15.1	9.51	1.184	137.6	0.782	1.592	241.5	555.6	0.347	2.838	4.55	0.412	49.8	1.9	3.3	0.428
4- 930	4-1510	0.963	273.9	-15.6	10.08	1.187	140.8	0.813	1.610	236.7	555.5	0.301	2.919	4.97	0.415	44.9	6.2	3.2	0.457
4- 930	4-1530	1.023	276.2	-16.0	10.77	1.190	144.3	0.844	1.628	231.6	555.1	0.254	3.002	5.50	0.419	40.2	10.8	3.1	0.487
4- 930	4-1550	1.087	278.7	-16.5	11.62	1.193	148.0	0.874	1.647	226.1	554.3	0.207	3.086	6.21	0.424	35.3	15.7	2.9	0.518
4- 930	4-1570	1.154	281.3	-16.9	12.72	1.196	151.9	0.903	1.668	220.4	553.1	0.161	3.174	7.16	0.429	30.4	20.8	2.8	0.551
4- 930	4-1590	1.224	284.0	-17.2	14.21	1.199	156.1	0.930	1.689	214.3	551.7	0.118	3.259	8.52	0.435	25.4	26.2	2.7	0.584
4- 930	4-1610	1.296	286.9	-17.5	16.40	1.203	160.5	0.953	1.710	208.0	549.9	0.080	3.341	10.57	0.442	20.4	31.8	2.6	0.619
4- 940	4-1120	0.743	260.3	-20.8	1.60	1.324	124.1	0.820	3.555	282.8	484.8	0.639	---	5.63	0.796	141.7	16.1	4.4	0.629
4- 940	4-1140	0.669	260.7	-18.4	2.90	1.275	121.6	0.731	2.456	282.8	491.0	0.660	---	4.45	0.709	136.7	18.0	4.1	0.523
4- 940	4-1160	0.615	261.0	-16.6	3.75	1.241	119.5	0.667	2.033	282.8	497.2	0.677	---	3.72	0.642	131.6	19.0	4.1	0.439
4- 940	4-1180	0.576	261.2	-15.0	4.36	1.218	118.0	0.621	1.819	282.8	503.3	0.690	---	3.24	0.590	126.4	19.1	4.1	0.372
4- 940	4-1200	0.550	261.5	-13.8	4.82	1.201	116.9	0.588	1.697	282.6	509.2	0.699	---	2.90	0.549	121.3	18.0	4.3	0.318
4- 940	4-1220	0.533	261.9	-12.8	5.20	1.190	116.2	0.566	1.622	282.4	514.9	0.704	---	2.65	0.518	116.2	15.7	4.5	0.277
4- 940	4-1240	0.524	262.3	-12.0	5.52	1.183	115.9	0.552	1.576	281.9	520.2	0.706	---	2.47	0.492	111.2	12.1	4.6	0.247
4- 940	4-1260	0.521	262.8	-11.4	5.79	1.178	115.8	0.545	1.547	281.1	525.2	0.704	---	2.34	0.473	106.4	7.6	4.7	0.227
4- 940	4-1280	0.525	263.4	-11.1	6.04	1.174	116.1	0.544	1.530	280.1	529.9	0.698	---	2.24	0.457	101.6	2.7	4.6	0.216
4- 940	4-1300	0.533	264.1	-10.9	6.26	1.173	116.5	0.547	1.522	278.8	534.1	0.689	---	2.18	0.445	97.0	358.0	4.5	0.214
4- 940	4-1320	0.545	265.0	-10.9	6.47	1.172	117.2	0.555	1.519	277.2	538.0	0.677	---	2.13	0.435	92.5	354.3	4.2	0.218
4- 940	4-1340	0.562	266.0	-11.0	6.68	1.173	118.2	0.565	1.521	275.2	541.4	0.681	2.380	2.11	0.428	88.2	351.7	4.0	0.228
4- 940	4-1360	0.583	267.1	-11.3	6.87	1.174	119.3	0.579	1.526	273.0	544.5	0.642	2.409	2.11	0.422	83.9	350.3	3.7	0.241
4- 940	4-1380	0.607	268.3	-11.6	7.06	1.175	120.6	0.595	1.533	270.6	547.2	0.620	2.446	2.12	0.418	79.6	350.0	3.4	0.257
4- 940	4-1400	0.635	269.6	-12.0	7.25	1.177	122.2	0.614	1.543	267.8	549.6	0.595	2.490	2.15	0.416	75.5	350.8	3.1	0.276
4- 940	4-1420	0.666	271.1	-12.5	7.45	1.179	123.9	0.635	1.554	264.8	551.6	0.587	2.541	2.20	0.414	71.3	352.3	2.9	0.295
4- 940	4-1440	0.701	272.7	-12.9	7.66	1.181	125.8	0.658	1.566	261.5	553.3	0.535	2.598	2.27	0.414	67.2	354.4	2.7	0.317
4- 940	4-1460	0.740	274.3	-13.4	7.88	1.183	127.9	0.683	1.580	257.9	554.6	0.501	2.659	2.36	0.414	63.1	357.2	2.6	0.339
4- 940	4-1480	0.782	276.1	-13.9	8.11	1.186	130.3	0.709	1.595	254.1	555.6	0.463	2.726	2.47	0.416	58.9	0.4	2.4	0.362
4- 940	4-1500	0.828	278.1	-14.4	8.37	1.188	132.8	0.737	1.610	250.0	556.3	0.423	2.798	2.61	0.418	54.7	4.0	2.3	0.387
4- 940	4-1520	0.877	280.1	-14.9	8.65	1.191	135.6	0.766	1.627	245.6	556.6	0.380	2.873	2.79	0.421	50.5	7.9	2.2	0.413
4- 940	4-1540	0.930	282.3	-15.3	8.98	1.194	138.6	0.796	1.644	240.9	556.7	0.336	2.952	3.02	0.424	46.2	12.2	2.1	0.440
4- 940	4-1560	0.987	284.6	-15.7	9.37	1.196	141.9	0.826	1.662	235.9	556.3	0.289	3.034	3.31	0.428	41.8	16.7	2.0	0.468
4- 940	4-1580	1.048	287.0	-16.1	9.83	1.199	145.4	0.856	1.680	230.6	555.7	0.242	3.119	3.68	0.433	37.3	21.5	1.9	0.498
4- 940	4-1600	1.112	289.5	-16.4	10.42	1.202	149.1	0.885	1.699	225.0	554.7	0.195	3.204	4.17	0.439	32.7	26.6	1.9	0.529
4- 940	4-1620	1.179	292.2	-16.7	11.19	1.205	153.2	0.913	1.719	219.1	553.3	0.150	3.289	4.85	0.445	28.0	31.9	1.8	0.562
4- 940	4-1640	1.249	295.0	-16.9	12.26	1.208	157.4	0.938	1.740	212.8	551.6	0.107	3.373	5.83	0.451	23.2	37.4	1.7	0.595
4- 940	4-1660	1.321	297.9	-17.0	13.88	1.210	161.9	0.960	1.762	206.3	549.7	0.070	3.454	7.37	0.458	18.3	43.1	1.7	0.630
4- 950	4-1130	0.716	268.6	-17.4	3.82	1.329	122.1	0.820	3.734	287.5	482.5	0.874	---	3.37	0.803	141.0	20.5	2.7	0.620

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 950	4-1150	0.645	268.8	-15.1	4.84	1.281	119.6	0.727	2.544	287.6	488.8	0.695	---	2.40	0.717	136.1	22.4	2.3	0.516
4- 950	4-1170	0.592	269.0	-13.3	5.40	1.248	117.6	0.660	2.094	287.7	495.1	0.711	---	1.89	0.651	131.2	23.6	2.1	0.433
4- 950	4-1190	0.554	269.1	-12.0	5.76	1.224	116.1	0.612	1.867	287.8	501.3	0.724	---	1.58	0.599	126.2	23.8	2.1	0.366
4- 950	4-1210	0.528	269.3	-10.9	6.02	1.208	115.1	0.578	1.738	287.8	507.3	0.733	---	1.37	0.559	121.3	23.0	2.1	0.313
4- 950	4-1230	0.510	269.5	-10.1	6.22	1.196	114.3	0.555	1.659	287.7	513.0	0.739	---	1.22	0.527	116.5	20.9	2.1	0.271
4- 950	4-1250	0.500	269.8	-9.5	6.38	1.189	113.9	0.540	1.610	287.3	518.4	0.741	---	1.12	0.502	111.7	17.7	2.2	0.240
4- 950	4-1270	0.496	270.2	-9.1	6.51	1.183	113.8	0.531	1.579	286.6	523.5	0.740	---	1.04	0.482	107.1	13.4	2.2	0.219
4- 950	4-1290	0.497	270.7	-9.0	6.63	1.180	114.0	0.529	1.560	285.7	528.2	0.736	---	0.98	0.466	102.6	8.6	2.2	0.207
4- 950	4-1310	0.503	271.4	-9.0	6.73	1.178	114.4	0.530	1.550	284.6	532.5	0.728	---	0.94	0.454	98.3	3.9	2.1	0.203
4- 950	4-1330	0.513	272.2	-9.1	6.82	1.178	115.0	0.536	1.546	283.1	536.5	0.718	---	0.91	0.444	94.1	359.8	2.0	0.205
4- 950	4-1350	0.527	273.1	-9.4	6.91	1.178	115.7	0.544	1.547	281.3	540.0	0.705	2.389	0.89	0.437	90.0	356.9	1.8	0.212
4- 950	4-1370	0.545	274.1	-9.8	6.99	1.179	116.7	0.556	1.551	279.3	543.3	0.689	2.413	0.87	0.431	85.9	355.1	1.7	0.223
4- 950	4-1390	0.565	275.3	-10.2	7.07	1.180	117.9	0.570	1.558	277.0	546.1	0.670	2.445	0.87	0.427	82.0	354.5	1.6	0.237
4- 950	4-1410	0.589	276.6	-10.7	7.14	1.181	119.2	0.586	1.566	274.5	548.7	0.648	2.485	0.87	0.424	78.1	354.8	1.4	0.253
4- 950	4-1430	0.616	277.9	-11.2	7.22	1.183	120.7	0.604	1.577	271.7	550.9	0.624	2.530	0.88	0.422	74.3	355.9	1.3	0.270
4- 950	4-1450	0.646	279.4	-11.8	7.30	1.185	122.4	0.625	1.589	268.6	552.8	0.596	2.581	0.90	0.421	70.5	357.8	1.2	0.289
4- 950	4-1470	0.679	281.0	-12.3	7.38	1.187	124.2	0.647	1.601	265.4	554.4	0.566	2.637	0.92	0.421	66.7	0.2	1.2	0.308
4- 950	4-1490	0.716	282.7	-12.9	7.46	1.189	126.3	0.670	1.615	261.8	555.7	0.533	2.698	0.95	0.422	62.9	3.0	1.1	0.329
4- 950	4-1510	0.756	284.5	-13.4	7.55	1.192	128.5	0.695	1.630	258.1	556.7	0.497	2.763	0.99	0.424	59.1	6.3	1.0	0.351
4- 950	4-1530	0.799	286.4	-13.9	7.65	1.194	130.9	0.722	1.645	254.0	557.4	0.458	2.832	1.04	0.427	55.3	9.9	1.0	0.374
4- 950	4-1550	0.845	288.5	-14.3	7.76	1.197	133.5	0.749	1.661	249.7	557.8	0.416	2.906	1.10	0.430	51.4	13.9	0.9	0.398
4- 950	4-1570	0.896	290.6	-14.7	7.88	1.199	136.4	0.778	1.678	245.2	557.9	0.372	2.983	1.18	0.434	47.4	18.1	0.9	0.423
4- 950	4-1590	0.949	292.8	-15.1	8.02	1.202	139.4	0.807	1.695	240.3	557.7	0.327	3.063	1.28	0.438	43.3	22.6	0.9	0.450
4- 950	4-1610	1.007	295.2	-15.4	8.19	1.204	142.7	0.837	1.713	235.2	557.1	0.280	3.145	1.41	0.443	39.1	27.3	0.8	0.478
4- 950	4-1630	1.068	297.7	-15.7	8.39	1.207	146.3	0.866	1.731	229.7	556.2	0.232	3.230	1.58	0.448	34.9	32.3	0.8	0.508
4- 950	4-1650	1.133	300.3	-15.8	8.65	1.209	150.1	0.894	1.750	224.0	555.0	0.185	3.315	1.80	0.455	30.4	37.5	0.8	0.540
4- 950	4-1670	1.201	303.1	-15.9	9.00	1.212	154.2	0.921	1.770	217.9	553.5	0.140	3.400	2.11	0.461	25.9	42.9	0.7	0.573
4- 950	4-1690	1.272	305.9	-16.0	9.49	1.215	158.6	0.945	1.790	211.4	551.6	0.098	3.483	2.57	0.468	21.2	48.6	0.7	0.607
4- 950	4-1710	1.345	308.9	-15.9	10.27	1.217	163.2	0.966	1.811	204.6	549.4	0.061	3.562	3.31	0.476	16.4	54.4	0.7	0.643
4- 960	4-1140	0.707	276.9	-6.9	9.93	1.333	120.0	0.818	3.891	292.4	480.4	0.709	---	-2.84	0.808	140.3	24.7	-2.4	0.610
4- 960	4-1160	0.630	276.8	-7.4	8.68	1.286	117.6	0.722	2.624	292.6	486.8	0.729	---	-1.61	0.723	135.5	26.7	-1.6	0.508
4- 960	4-1180	0.576	276.7	-7.1	8.18	1.253	115.7	0.653	2.150	292.8	493.1	0.746	---	-1.13	0.658	130.7	27.9	-1.3	0.427
4- 960	4-1200	0.537	276.7	-6.6	7.92	1.229	114.2	0.604	1.913	293.0	499.4	0.758	---	-0.89	0.607	126.0	28.3	-1.2	0.361
4- 960	4-1220	0.509	276.7	-6.1	7.74	1.213	113.1	0.568	1.777	293.2	505.4	0.767	---	-0.74	0.567	121.2	27.7	-1.2	0.308
4- 960	4-1240	0.490	276.7	-5.8	7.62	1.202	112.4	0.544	1.695	293.1	511.2	0.773	---	-0.64	0.536	116.6	25.9	-1.1	0.266
4- 960	4-1260	0.478	276.9	-5.6	7.53	1.194	112.0	0.528	1.642	292.8	516.7	0.775	---	-0.57	0.511	112.1	22.9	-1.1	0.235
4- 960	4-1280	0.473	277.3	-5.6	7.46	1.189	111.8	0.518	1.609	292.3	521.8	0.775	---	-0.52	0.491	107.7	18.8	-1.1	0.213
4- 960	4-1300	0.472	277.7	-5.8	7.40	1.185	111.9	0.514	1.589	291.5	526.6	0.772	---	-0.48	0.475	103.4	14.2	-1.1	0.199
4- 960	4-1320	0.476	278.3	-6.1	7.34	1.183	112.2	0.515	1.578	290.4	531.0	0.766	---	-0.45	0.463	99.3	9.5	-1.1	0.193
4- 960	4-1340	0.483	279.0	-6.5	7.30	1.182	112.7	0.519	1.573	289.1	535.0	0.757	---	-0.43	0.453	95.3	5.3	-1.0	0.193
4- 960	4-1360	0.494	279.9	-7.0	7.25	1.182	113.4	0.525	1.573	287.5	538.7	0.746	---	-0.42	0.445	91.4	2.1	-0.9	0.198
4- 960	4-1380	0.509	280.9	-7.6	7.22	1.183	114.3	0.535	1.576	285.6	542.0	0.733	2.419	-0.40	0.439	87.7	358.9	-0.9	0.207
4- 960	4-1400	0.526	282.0	-8.2	7.18	1.184	115.3	0.547	1.582	283.5	545.0	0.717	2.447	-0.40	0.435	84.0	358.9	-0.8	0.219
4- 960	4-1420	0.546	283.2	-8.8	7.14	1.185	116.4	0.561	1.590	281.1	547.7	0.698	2.482	-0.39	0.431	80.4	358.9	-0.7	0.233
4- 960	4-1440	0.569	284.6	-9.5	7.11	1.187	117.7	0.577	1.600	278.5	550.1	0.677	2.523	-0.39	0.429	76.8	359.7	-0.7	0.248
4- 960	4-1460	0.595	286.0	-10.1	7.08	1.189	119.2	0.595	1.611	275.7	552.2	0.653	2.568	-0.40	0.428	73.3	1.2	-0.6	0.265
4- 960	4-1480	0.624	287.5	-10.8	7.04	1.191	120.8	0.614	1.623	272.7	554.0	0.627	2.619	-0.40	0.428	69.8	3.3	-0.6	0.282
4- 960	4-1500	0.656	289.2	-11.4	7.01	1.193	122.6	0.635	1.636	269.4	555.5	0.598	2.674	-0.41	0.429	66.4	5.9	-0.5	0.301
4- 960	4-1520	0.690	290.9	-12.0	6.97	1.195	124.5	0.657	1.650	265.9	556.8	0.566	2.734	-0.42	0.431	62.9	8.9	-0.5	0.320
4- 960	4-1540	0.728	292.7	-12.5	6.93	1.197	126.6	0.681	1.664	262.2	557.8	0.531	2.797	-0.44	0.433	59.4	12.2	-0.5	0.340
4- 960	4-1560	0.768	294.6	-13.0	6.89	1.199	128.9	0.706	1.679	258.3	558.6	0.494	2.864	-0.46	0.436	55.8	15.9	-0.5	0.362
4- 960	4-1580	0.812	296.7	-13.5	6.85	1.202	131.4	0.732	1.695	254.1	559.0	0.454	2.935	-0.48	0.439	52.2	19.8	-0.4	0.384
4- 960	4-1600	0.860	298.8	-13.8	6.80	1.204	134.1	0.760	1.711	249.7	559.2	0.411	3.010	-0.51	0.443	48.6	24.0	-0.4	0.408
4- 960	4-1620	0.910	301.0	-14.2	6.74	1.206	137.0	0.788	1.727	244.9	559.1	0.367	3.088	-0.55	0.448	44.8	28.5	-0.4	0.433
4- 960	4-1640	0.965	303.3	-14.4	6.67	1.209	140.1	0.817	1.744	239.9	558.6	0.320	3.169	-0.60	0.453	40.9	33.1	-0.4	0.460
4- 960	4-1660	1.023	305.8	-14.6	6.59	1.211	143.5	0.846	1.762	234.6	557.9	0.272	3.252	-0.66	0.459	36.9	38.0	-0.4	0.489
4- 960	4-1680	1.086	308.4	-14.7	6.50	1.213	147.1	0.874	1.780	229.0	556.8	0.224	3.337	-0.74	0.465	32.8	43.2	-0.4	0.519
4- 960	4-1700	1.151	311.0	-14.7	6.37	1.216	151.0	0.902	1.799	223.0	555.4	0.176	3.422	-0.85	0.472	28.5	48.5	-0.3	0.551
4- 960	4-1720	1.221	313.9	-14.7	6.20	1.218	155.2	0.928	1.818	216.7	553.7	0.130	3.506	-1.00	0.479	24.1	54.1	-0.3	0.585
4- 970	4-1170	0.689	286.4	12.6	19.85	1.289	115.5	0.716	2.691	297.6	484.9	0.763	---	-13.01	0.728	134.9	29.4	-13.0	0.517
4- 970	4-1190	0.587	284.5	5.5	13.90	1.256	113.6	0.646	2.200	298.0	491.3	0.779	---	-7.15	0.663	130.2	31.6	-8.5	0.426
4- 970	4-1210	0.534	283.9	2.9	11.65	1.233	112.2	0.595	1.954	298.4	497.7	0.791	---	-4.98	0.613	125.6	32.3	-6.9	0.358
4- 970	4-1230	0.499	283.6	1.6	10.44	1.217	111.2	0.559	1.814	298.6	503.8	0.800	---	-3.87	0.574	121.0	31.9	-6.2	0.305
4- 970	4-1250	0.476	283.5	0.8	9.68	1.206	110.4	0.534	1.728	298.7	509.6	0.806	---	-3.20	0.543	116.6	30.4	-5.9	0.263
4- 970	4-1270	0.461	283.5	0.1	9.15	1.198	110.0	0.517	1.673	298.5	515.2	0.809	---	-2.75	0.518	112.2	27.7	-5.7	0.231
4- 970	4-1290	0.453	283.7	-0.6	8.75	1.193	109.8	0.506	1.639	298.1	520.4	0.809	---	-2.45	0.498	108.0	23.9	-5.6	0.208
4- 970	4-1310	0.450	284.1	-1.3	8.43	1.189	109.9	0.501	1.617	297.4	525.2	0.807	---	-2.22	0.483	104.0	19.4	-5.4	0.193
4- 970	4-1330	0.451	284.7	-2.1	8.17	1.187	110.1	0.500	1.605	296.5	529.6	0.802	---	-2.05	0.470	100.1	14.8	-5.1	0.186
4- 970	4-1350	0.456	285.4	-2.9	7.95	1.186	110.5	0.503	1.599	295.2	533.7	0.795	---	-1.93	0.460	96.3	10.5	-4.8	0.184
4- 970	4-1370	0.464	286.2	-3.7	7.75	1.186	111.1	0.508	1.598	293.7	537.5	0.786	---	-1.83	0.453	92.6	7.1	-4.4	0.188
4- 970	4-1390	0.475	287.2	-4.6	7.58	1.187	111.9	0.516	1.601	292.0	540.9	0.774	2.427	-1.76	0.446	89.1	4.7	-4.0	0.195
4- 970	4-1410	0.490	288.3	-5.5	7.41	1.188	112.7	0.526	1.606	290.0	544.0	0.761	2.452	-1.71	0.442	85.6	3.4	-3.7	0.205
4- 970	4-1430	0.507	289.5	-6.3	7.26	1.189	113.8	0.538	1.613	287.8	546.8	0.745	2.482	-1.67	0.439	82.2	3.0	-3.4	0.216
4- 970	4-1450	0.526	290.9	-7.2	7.12	1.190	114.9	0.552	1.623	285.4	549.3	0.727	2.519	-1.65	0.437	78.9	3.5	-3.1	0.230
4- 970	4-1470	0.548	292.3	-8.0	6.97	1.192	116.2	0.568	1.633	282.7	551.5	0.706	2.560	-1.64	0.435	75.7	4.8	-2.8	0.244
4- 970	4-1490	0.573	293.8	-8.8	6.84	1.194	117.6	0.585	1.644	279.9	553.5	0.683	2.608	-1.65	0.435	72.4	6.6	-2.6	0.260
4- 970	4-1510	0.600	295.4	-9.5	6.70	1.196	119.2	0.603	1.657	276.9	555.3	0.658	2.656	-1.66	0.436	69.2	8.9	-2.5	0.276
4- 970	4-1530	0.630	297.1	-10.2	6.56	1.198	120.9	0.623	1.670	273.6	556.8	0.630	2.709	-1.69	0.437	66.0	11.7	-2.3	0.293
4- 970	4-1550	0.663	298.9	-10.8	6.41	1.200	122.7	0.644	1.684	270.2	558.0	0.600	2.767	-1.73	0.439	62.8	14.8	-2.2	0.311
4- 970	4-1570	0.698	300.7	-11.4	6.26	1.202	124.7	0.666	1.698	266.5	559.0	0.567	2.829	-1.78	0.442	59.6	18.2	-2.1	0.330

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4- 970	4-1590	0.736	302.7	-11.9	6.10	1.204	126.9	0.690	1.712	262.7	559.8	0.531	2.894	-1.85	0.445	56.4	21.8	-2.0	0.350
4- 970	4-1610	0.778	304.7	-12.3	5.93	1.206	129.2	0.715	1.728	258.6	560.3	0.493	2.963	-1.93	0.449	53.0	25.8	-1.9	0.371
4- 970	4-1630	0.822	306.8	-12.7	5.73	1.208	131.7	0.741	1.743	254.3	560.5	0.452	3.035	-2.04	0.453	49.7	30.0	-1.8	0.394
4- 970	4-1650	0.871	309.0	-13.0	5.52	1.210	134.5	0.768	1.759	249.7	560.5	0.408	3.110	-2.17	0.458	46.2	34.4	-1.7	0.417
4- 970	4-1670	0.923	311.3	-13.2	5.27	1.212	137.5	0.796	1.776	244.8	560.2	0.362	3.189	-2.34	0.463	42.6	39.0	-1.7	0.443
4- 970	4-1690	0.978	313.7	-13.3	4.98	1.215	140.7	0.825	1.793	239.6	559.6	0.315	3.271	-2.56	0.469	38.9	43.8	-1.6	0.470
4- 970	4-1710	1.038	316.3	-13.4	4.63	1.217	144.1	0.853	1.810	234.1	558.7	0.266	3.354	-2.83	0.475	35.1	48.9	-1.5	0.499
4- 970	4-1730	1.102	318.9	-13.3	4.19	1.219	147.9	0.882	1.828	228.3	557.4	0.216	3.440	-3.20	0.482	31.0	54.2	-1.5	0.531
4- 980	4-1160	0.705	306.3	-53.4	-18.53	1.336	115.2	0.808	4.088	303.0	476.3	0.785	---	25.23	0.812	138.5	28.1	20.9	0.643
4- 980	4-1200	0.771	297.7	32.5	31.36	1.259	111.7	0.638	2.241	303.0	489.8	0.810	---	-24.97	0.867	129.7	30.3	-26.6	0.485
4- 980	4-1220	0.588	291.7	20.1	19.60	1.236	110.2	0.586	1.990	303.7	496.1	0.823	---	-13.38	0.818	125.2	34.7	-18.2	0.373
4- 980	4-1240	0.517	290.2	14.2	15.26	1.220	109.2	0.549	1.846	304.2	502.3	0.832	---	-9.17	0.579	120.7	35.3	-14.8	0.311
4- 980	4-1260	0.478	289.6	10.7	13.00	1.209	108.4	0.524	1.758	304.4	508.2	0.838	---	-7.05	0.549	116.4	34.2	-13.1	0.265
4- 980	4-1280	0.455	289.4	8.4	11.59	1.201	108.0	0.506	1.702	304.4	513.8	0.841	---	-5.79	0.524	112.2	31.9	-12.2	0.232
4- 980	4-1300	0.440	289.5	6.5	10.61	1.196	107.8	0.495	1.666	304.1	519.1	0.841	---	-4.96	0.505	108.2	28.5	-11.5	0.207
4- 980	4-1320	0.433	289.8	4.9	9.88	1.193	107.8	0.489	1.644	303.5	523.9	0.840	---	-4.38	0.489	104.3	24.3	-11.0	0.191
4- 980	4-1340	0.430	290.3	3.4	9.31	1.191	108.0	0.487	1.631	302.6	528.4	0.836	---	-3.98	0.477	100.6	19.7	-10.3	0.181
4- 980	4-1360	0.431	291.0	1.9	8.84	1.190	108.4	0.489	1.624	301.5	532.6	0.830	---	-3.65	0.467	97.0	15.4	-9.6	0.178
4- 980	4-1380	0.437	291.9	0.6	8.44	1.189	108.9	0.493	1.623	300.1	536.4	0.823	---	-3.42	0.459	93.5	11.9	-8.8	0.180
4- 980	4-1400	0.445	292.9	-0.7	8.10	1.190	109.5	0.499	1.625	298.5	539.8	0.813	---	-3.24	0.453	90.2	9.3	-8.0	0.185
4- 980	4-1420	0.456	294.1	-2.0	7.79	1.190	110.3	0.508	1.629	296.6	543.0	0.802	2.457	-3.10	0.449	86.9	7.7	-7.2	0.193
4- 980	4-1440	0.470	295.3	-3.1	7.50	1.192	111.2	0.518	1.636	294.5	545.9	0.788	2.485	-3.00	0.445	83.7	7.1	-6.6	0.203
4- 980	4-1460	0.486	296.7	-4.3	7.24	1.193	112.2	0.530	1.645	292.2	548.5	0.773	2.517	-2.92	0.443	80.6	7.4	-6.0	0.215
4- 980	4-1480	0.505	298.2	-5.3	6.99	1.194	113.4	0.544	1.655	289.7	550.9	0.755	2.554	-2.88	0.442	77.6	8.3	-5.5	0.227
4- 980	4-1500	0.526	299.7	-6.3	6.75	1.196	114.6	0.558	1.666	287.1	553.0	0.736	2.596	-2.85	0.442	74.6	9.9	-5.0	0.241
4- 980	4-1520	0.549	301.4	-7.2	6.51	1.198	116.0	0.574	1.678	284.2	554.9	0.714	2.641	-2.84	0.442	71.6	12.0	-4.7	0.255
4- 980	4-1540	0.575	303.0	-8.0	6.28	1.200	117.5	0.592	1.690	281.2	556.6	0.690	2.690	-2.85	0.443	68.7	14.5	-4.4	0.270
4- 980	4-1560	0.603	304.8	-8.8	6.04	1.202	119.1	0.610	1.703	278.0	558.0	0.663	2.743	-2.89	0.445	65.8	17.4	-4.1	0.286
4- 980	4-1580	0.634	306.7	-9.4	5.80	1.203	120.9	0.630	1.717	274.6	559.3	0.635	2.799	-2.96	0.448	62.8	20.6	-3.9	0.303
4- 980	4-1600	0.667	308.6	-10.0	5.55	1.205	122.8	0.651	1.731	271.0	560.3	0.603	2.858	-3.01	0.451	59.9	24.1	-3.7	0.321
4- 980	4-1620	0.703	310.5	-10.5	5.29	1.207	124.8	0.674	1.745	267.2	561.1	0.569	2.921	-3.11	0.454	56.9	27.8	-3.5	0.339
4- 980	4-1640	0.742	312.6	-10.9	5.01	1.209	127.0	0.697	1.760	263.2	561.7	0.532	2.987	-3.23	0.458	53.8	31.7	-3.3	0.359
4- 980	4-1660	0.785	314.7	-11.3	4.70	1.211	129.4	0.722	1.775	259.0	562.0	0.493	3.057	-3.39	0.463	50.7	35.9	-3.2	0.380
4- 980	4-1680	0.831	316.9	-11.6	4.36	1.213	132.0	0.748	1.791	254.5	562.0	0.451	3.130	-3.58	0.468	47.5	40.3	-3.1	0.403
4- 980	4-1700	0.880	319.2	-11.7	3.97	1.215	134.8	0.775	1.806	249.8	561.8	0.406	3.207	-3.83	0.474	44.2	44.9	-3.0	0.427
4- 980	4-1720	0.933	321.6	-11.8	3.53	1.217	137.9	0.803	1.823	244.7	561.4	0.359	3.287	-4.14	0.480	40.7	49.7	-2.9	0.453
4- 980	4-1740	0.991	324.1	-11.8	3.00	1.219	141.2	0.832	1.839	239.3	560.6	0.310	3.369	-4.54	0.487	37.1	54.7	-2.8	0.482
4- 990	4-1170	0.606	305.1	-42.1	-10.56	1.336	112.7	0.800	4.106	308.4	474.7	0.820	---	16.96	0.811	137.5	34.4	15.5	0.599
4- 990	4-1190	0.673	330.2	-61.6	-23.36	1.291	110.5	0.698	2.775	309.4	481.4	0.838	---	29.54	0.731	133.1	31.2	27.7	0.566
4- 990	4-1230	0.936	312.6	48.9	44.73	1.238	108.4	0.579	2.020	308.8	494.9	0.851	---	-30.96	0.621	124.7	26.3	-38.2	0.519
4- 990	4-1250	0.633	298.8	34.6	25.97	1.222	107.2	0.540	1.874	309.7	501.1	0.861	---	-20.39	0.583	120.4	35.4	-29.5	0.356
4- 990	4-1270	0.525	295.7	26.0	19.11	1.211	106.4	0.514	1.785	310.2	507.1	0.868	---	-13.73	0.553	116.2	36.6	-24.4	0.285
4- 990	4-1290	0.473	294.8	20.4	15.61	1.204	106.0	0.496	1.728	310.3	512.7	0.871	---	-10.43	0.529	112.1	35.2	-21.5	0.242
4- 990	4-1310	0.443	294.5	16.4	13.47	1.199	105.7	0.484	1.691	310.2	518.0	0.872	---	-8.49	0.510	108.3	32.3	-19.6	0.213
4- 990	4-1330	0.426	294.7	13.3	12.01	1.195	105.7	0.478	1.668	309.7	522.9	0.871	---	-7.23	0.495	104.5	28.5	-18.2	0.193
4- 990	4-1350	0.416	295.2	10.6	10.93	1.193	105.9	0.475	1.655	308.9	527.4	0.868	---	-6.38	0.483	101.0	24.2	-16.8	0.181
4- 990	4-1370	0.413	295.9	8.3	10.09	1.192	106.2	0.476	1.648	307.9	531.6	0.864	---	-5.72	0.473	97.5	20.0	-15.4	0.176
4- 990	4-1390	0.413	296.8	6.2	9.41	1.192	106.7	0.479	1.646	306.6	535.4	0.857	---	-5.25	0.465	94.2	16.4	-14.0	0.175
4- 990	4-1410	0.418	297.9	4.2	8.83	1.192	107.2	0.484	1.647	305.1	538.9	0.849	---	-4.89	0.459	91.0	13.7	-12.7	0.178
4- 990	4-1430	0.426	299.1	2.5	8.33	1.193	107.9	0.492	1.652	303.3	542.1	0.840	2.464	-4.61	0.455	87.9	11.9	-11.4	0.184
4- 990	4-1450	0.436	300.5	0.8	7.89	1.194	108.7	0.501	1.658	301.3	545.1	0.828	2.488	-4.40	0.452	84.9	11.1	-10.3	0.193
4- 990	4-1470	0.449	301.9	-0.7	7.49	1.195	109.7	0.511	1.666	299.1	547.8	0.815	2.518	-4.24	0.449	82.0	11.1	-9.3	0.202
4- 990	4-1490	0.464	303.5	-2.0	7.12	1.196	110.7	0.522	1.676	296.8	550.3	0.800	2.552	-4.12	0.448	79.2	11.9	-8.5	0.213
4- 990	4-1510	0.482	305.1	-3.3	6.77	1.198	111.8	0.535	1.687	294.3	552.5	0.784	2.589	-4.03	0.448	76.4	13.3	-7.8	0.225
4- 990	4-1530	0.502	306.8	-4.4	6.43	1.200	113.0	0.549	1.698	291.6	554.5	0.765	2.631	-3.98	0.448	73.6	15.2	-7.2	0.238
4- 990	4-1550	0.524	308.6	-5.5	6.11	1.201	114.4	0.565	1.710	288.7	556.3	0.745	2.676	-3.95	0.449	70.9	17.5	-6.7	0.251
4- 990	4-1570	0.548	310.4	-6.4	5.79	1.203	115.8	0.581	1.723	285.7	558.0	0.722	2.723	-3.95	0.451	68.2	20.2	-6.2	0.265
4- 990	4-1590	0.575	312.3	-7.2	5.47	1.205	117.3	0.598	1.736	282.5	559.4	0.697	2.774	-3.98	0.453	65.5	23.2	-5.9	0.280
4- 990	4-1610	0.604	314.2	-7.9	5.14	1.207	119.0	0.617	1.749	279.2	560.6	0.670	2.828	-4.03	0.456	62.8	26.5	-5.5	0.296
4- 990	4-1630	0.635	316.2	-8.5	4.81	1.209	120.8	0.637	1.763	275.6	561.6	0.640	2.888	-4.11	0.460	60.1	30.0	-5.2	0.312
4- 990	4-1650	0.670	318.2	-9.0	4.46	1.210	122.8	0.658	1.777	271.9	562.5	0.608	2.948	-4.22	0.464	57.3	33.7	-5.0	0.330
4- 990	4-1670	0.707	320.3	-9.4	4.09	1.212	124.9	0.680	1.791	268.0	563.1	0.573	3.010	-4.36	0.469	54.5	37.7	-4.8	0.348
4- 990	4-1690	0.747	322.4	-9.8	3.69	1.214	127.1	0.704	1.806	263.8	563.5	0.535	3.077	-4.55	0.474	51.6	41.9	-4.6	0.368
4- 990	4-1710	0.790	324.7	-10.0	3.25	1.216	129.6	0.729	1.821	259.4	563.6	0.494	3.148	-4.78	0.479	48.7	46.2	-4.4	0.390
4- 990	4-1730	0.838	327.0	-10.1	2.76	1.218	132.3	0.755	1.836	254.7	563.6	0.450	3.222	-5.07	0.485	45.6	50.8	-4.3	0.413
4- 990	4-1750	0.889	329.4	-10.2	2.21	1.220	135.1	0.782	1.852	249.8	563.2	0.404	3.300	-5.44	0.491	42.4	55.6	-4.1	0.438
4-1000	4-1160	0.621	306.3	-29.4	-4.72	1.395	112.6	0.936	13.040	313.2	468.6	0.838	---	11.03	0.910	140.7	37.2	9.3	0.682
4-1000	4-1180	0.552	309.7	-37.6	-8.04	1.333	110.1	0.790	4.063	314.0	473.3	0.855	---	14.07	0.807	136.5	38.8	13.6	0.575
4-1000	4-1200	0.536	318.7	-50.7	-13.75	1.290	108.1	0.687	2.784	315.1	480.2	0.871	---	19.52	0.729	132.2	38.8	20.9	0.506
4-1000	4-1220	0.646	354.2	-65.2	-25.84	1.260	106.3	0.614	2.291	316.4	486.9	0.885	---	31.36	0.669	127.9	33.9	33.0	0.504
4-1000	4-1260	1.155	334.6	60.6	59.96	1.223	105.6	0.534	1.897	314.2	500.2	0.884	---	-54.95	0.585	120.1	20.1	-43.1	0.607
4-1000	4-1280	0.718	306.3	48.2	33.30	1.213	104.5	0.505	1.808	315.8	506.2	0.894	---	-28.54	0.556	115.9	33.4	-39.7	0.374
4-1000	4-1300	0.557	300.5	37.6	23.31	1.205	104.0	0.487	1.751	316.3	511.8	0.899	---	-18.79	0.533	111.9	36.1	-34.3	0.283
4-1000	4-1320	0.481	298.9	30.2	18.34	1.200	103.7	0.475	1.714	316.4	517.1	0.900	---	-14.05	0.514	108.2	34.8	-30.3	0.235
4-1000	4-1340	0.440	298.6	24.7	15.36	1.197	103.6	0.468	1.691	316.1	522.0	0.900	---	-11.32	0.499	104.6	31.8	-27.4	0.206
4-1000	4-1360	0.416	299.0	20.2	13.36	1.195	103.8	0.464	1.677	315.4	526.6	0.898	---	-9.56	0.487	101.1	28.0	-24.9	0.188
4-1000	4-1380	0.403	299.7	16.5	11.90	1.194	104.0	0.464	1.670	314.5	530.8	0.894	---	-8.34	0.478	97.8	24.1	-22.6	0.179
4-1000	4-1400	0.397	300.7	13.3	10.78	1.193	104.4	0.467	1.667	313.2	534.6	0.889	---	-7.47	0.470	94.7	20.5	-20.4	0.175
4-1000	4-1420	0.396	301.9	10.5	9.87	1.194	105.0	0.471	1.669	311.8	538.2	0.883	---	-6.81	0.465	91.6	17.8	-18.3	0.176
4-1000	4-1440	0.399	303.3	8.0	9.12	1.194	105.6	0.477	1.673	310.1	541.4	0.875	2.471	-6.32	0.460	88.7	15.9	-16.4	0.180

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THBT2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THBT1	THBT2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1000	4-1460	0.406	304.8	5.7	8.47	1.195	106.3	0.485	1.679	308.2	544.4	0.885	2.493	-5.93	0.497	85.9	15.0	-14.7	0.186
4-1000	4-1480	0.415	306.4	3.7	7.90	1.196	107.2	0.494	1.687	306.1	547.2	0.854	2.520	-5.63	0.455	83.1	14.8	-13.2	0.194
4-1000	4-1500	0.427	308.1	1.8	7.38	1.198	108.1	0.504	1.696	303.9	549.7	0.842	2.551	-5.40	0.454	80.4	15.4	-12.0	0.203
4-1000	4-1520	0.441	309.9	0.2	6.91	1.199	109.1	0.515	1.707	301.5	552.0	0.828	2.585	-5.23	0.453	77.8	16.6	-10.9	0.213
4-1000	4-1540	0.458	311.7	-1.2	6.46	1.201	110.2	0.527	1.718	298.9	554.2	0.812	2.623	-5.10	0.454	75.2	18.3	-10.0	0.224
4-1000	4-1560	0.477	313.6	-2.5	6.04	1.202	111.4	0.541	1.729	296.2	556.1	0.795	2.664	-5.01	0.455	72.7	20.5	-9.3	0.236
4-1000	4-1580	0.497	315.5	-3.7	5.64	1.204	112.7	0.555	1.742	293.3	557.8	0.775	2.708	-4.95	0.457	70.2	23.0	-8.6	0.248
4-1000	4-1600	0.520	317.5	-4.7	5.24	1.206	114.1	0.570	1.754	290.3	559.4	0.754	2.754	-4.93	0.459	67.7	25.9	-8.0	0.261
4-1000	4-1620	0.546	319.5	-5.5	4.84	1.208	115.5	0.587	1.767	287.1	560.8	0.731	2.804	-4.94	0.462	65.2	29.0	-7.6	0.275
4-1000	4-1640	0.573	321.5	-6.3	4.45	1.209	117.1	0.604	1.781	283.8	562.0	0.705	2.856	-4.98	0.466	62.7	32.3	-7.1	0.289
4-1000	4-1660	0.603	323.6	-6.9	4.04	1.211	118.9	0.623	1.794	280.3	563.1	0.677	2.911	-5.05	0.470	60.2	35.9	-6.8	0.305
4-1000	4-1680	0.636	325.7	-7.4	3.62	1.213	120.7	0.643	1.808	276.6	564.0	0.646	2.970	-5.16	0.474	57.7	39.7	-6.4	0.321
4-1000	4-1700	0.671	327.8	-7.9	3.18	1.215	122.7	0.664	1.822	272.8	564.6	0.613	3.031	-5.31	0.479	55.1	43.7	-6.2	0.339
4-1000	4-1720	0.709	330.0	-8.2	2.71	1.216	124.9	0.686	1.836	268.7	565.1	0.577	3.098	-5.51	0.484	52.5	47.9	-5.9	0.357
4-1000	4-1740	0.751	332.3	-8.4	2.19	1.218	127.2	0.710	1.851	264.3	565.3	0.538	3.164	-5.75	0.490	49.8	52.2	-5.7	0.378
4-1000	4-1760	0.796	334.6	-8.5	1.63	1.220	129.7	0.735	1.866	259.8	565.3	0.495	3.236	-6.06	0.496	46.9	58.8	-5.5	0.400
4-1010	4-1170	0.573	311.9	-28.6	-4.47	1.389	109.6	0.92111	.096	319.0	465.3	0.874	---	10.41	0.901	139.6	40.9	9.2	0.659
4-1010	4-1190	0.504	314.5	-35.4	-6.83	1.329	107.4	0.775	3.960	320.0	472.3	0.889	---	12.45	0.801	135.5	42.7	12.6	0.553
4-1010	4-1210	0.471	319.8	-45.2	-10.29	1.288	105.5	0.674	2.769	321.2	479.3	0.902	---	15.59	0.726	131.3	43.4	17.9	0.477
4-1010	4-1230	0.490	333.6	-58.0	-15.93	1.259	103.9	0.602	2.297	322.5	486.2	0.913	---	20.93	0.667	127.0	42.2	26.0	0.434
4-1010	4-1250	0.618	14.3	-66.6	-26.77	1.238	102.6	0.550	2.054	324.0	492.9	0.923	---	31.47	0.622	122.8	36.5	37.3	0.450
4-1010	4-1270	1.023	57.4	-52.1	-52.46	1.223	101.3	0.512	1.913	326.3	499.4	0.934	---	56.87	0.586	118.6	20.9	44.3	0.617
4-1010	4-1310	0.845	315.6	60.5	42.08	1.206	102.1	0.479	1.769	321.9	511.2	0.922	---	-38.22	0.535	111.7	29.9	-46.1	0.427
4-1010	4-1330	0.611	304.5	48.8	28.08	1.201	101.7	0.466	1.733	322.6	516.5	0.926	---	-24.51	0.517	107.9	34.3	-42.4	0.302
4-1010	4-1350	0.503	301.9	39.8	21.27	1.198	101.6	0.458	1.710	322.5	521.5	0.926	---	-17.97	0.502	104.5	33.6	-38.2	0.243
4-1010	4-1370	0.445	301.7	32.9	17.30	1.196	101.6	0.455	1.696	322.0	526.0	0.925	---	-14.27	0.491	101.1	30.9	-34.4	0.210
4-1010	4-1390	0.412	302.3	27.2	14.68	1.195	101.9	0.454	1.689	321.2	530.2	0.922	---	-11.92	0.482	98.0	27.5	-30.9	0.192
4-1010	4-1410	0.393	303.3	22.4	12.80	1.194	102.2	0.456	1.687	320.0	534.1	0.918	---	-10.32	0.475	94.9	24.3	-27.7	0.182
4-1010	4-1430	0.384	304.7	18.4	11.38	1.195	102.7	0.459	1.688	318.7	537.6	0.913	---	-9.17	0.469	92.0	21.6	-24.7	0.179
4-1010	4-1450	0.380	306.3	14.8	10.24	1.195	103.3	0.465	1.693	317.1	540.9	0.906	2.479	-8.32	0.465	89.2	19.7	-22.1	0.179
4-1010	4-1470	0.381	308.0	11.7	9.30	1.196	104.0	0.471	1.699	315.2	543.9	0.899	2.499	-7.67	0.462	86.5	18.6	-19.7	0.183
4-1010	4-1490	0.386	309.9	8.9	8.50	1.197	104.7	0.479	1.707	313.2	546.7	0.889	2.524	-7.17	0.460	83.9	18.4	-17.6	0.188
4-1010	4-1510	0.394	311.8	6.5	7.80	1.199	105.6	0.488	1.716	311.1	549.3	0.879	2.552	-6.77	0.459	81.4	18.8	-15.9	0.196
4-1010	4-1530	0.404	313.8	4.3	7.18	1.200	106.5	0.497	1.726	308.8	551.7	0.867	2.584	-6.47	0.459	78.9	19.9	-14.4	0.204
4-1010	4-1550	0.418	315.9	2.4	6.61	1.201	107.5	0.508	1.736	306.3	553.9	0.854	2.619	-6.23	0.459	76.5	21.5	-13.1	0.213
4-1010	4-1570	0.433	318.0	0.8	6.08	1.203	108.6	0.520	1.748	303.7	555.9	0.840	2.656	-6.04	0.460	74.1	23.5	-12.1	0.223
4-1010	4-1590	0.450	320.1	-0.7	5.58	1.205	109.7	0.532	1.760	301.0	557.7	0.823	2.694	-5.91	0.462	71.8	25.9	-11.1	0.234
4-1010	4-1610	0.470	322.2	-1.9	5.10	1.206	111.0	0.546	1.772	298.1	559.4	0.805	2.739	-5.82	0.465	69.5	28.6	-10.4	0.245
4-1010	4-1630	0.492	324.4	-3.0	4.63	1.208	112.3	0.560	1.785	295.1	561.0	0.785	2.784	-5.77	0.468	67.2	31.5	-9.7	0.257
4-1010	4-1650	0.516	326.5	-3.9	4.17	1.210	113.7	0.575	1.798	291.9	562.4	0.764	2.832	-5.75	0.471	64.9	34.7	-9.1	0.270
4-1010	4-1670	0.542	328.7	-4.7	3.71	1.211	115.3	0.592	1.811	288.6	563.6	0.740	2.883	-5.78	0.475	62.7	38.2	-8.6	0.284
4-1010	4-1690	0.571	330.8	-5.3	3.25	1.213	116.9	0.609	1.824	285.1	564.6	0.713	2.938	-5.84	0.479	60.4	41.8	-8.2	0.298
4-1010	4-1710	0.602	333.0	-5.9	2.77	1.215	118.7	0.628	1.838	281.4	565.5	0.684	2.992	-5.93	0.484	58.0	45.7	-7.8	0.313
4-1010	4-1730	0.635	335.3	-6.3	2.27	1.216	120.6	0.648	1.852	277.6	566.3	0.653	3.051	-6.07	0.490	55.7	49.7	-7.4	0.330
4-1010	4-1750	0.672	337.5	-6.5	1.74	1.218	122.7	0.669	1.866	273.6	566.8	0.618	3.113	-6.26	0.495	53.2	53.9	-7.1	0.348
4-1010	4-1770	0.712	339.8	-6.7	1.17	1.220	124.9	0.691	1.880	269.3	567.1	0.581	3.179	-6.51	0.501	50.7	58.3	-6.9	0.367
4-1020	4-1160	0.621	315.0	-23.8	-2.91	1.464	108.9	1.115	-7.787	324.2	457.5	0.894	---	8.81	1.016	142.3	42.3	7.1	0.771
4-1020	4-1180	0.524	316.5	-28.2	-4.35	1.381	106.5	0.902	9.224	325.1	464.4	0.908	---	9.85	0.889	138.4	44.5	9.2	0.634
4-1020	4-1200	0.458	318.5	-34.3	-6.16	1.323	104.5	0.758	3.805	326.3	471.6	0.921	---	11.28	0.793	134.3	46.2	12.1	0.531
4-1020	4-1220	0.421	322.2	-42.7	-8.56	1.284	102.8	0.659	2.730	327.7	478.7	0.932	---	13.32	0.720	130.2	47.2	16.2	0.453
4-1020	4-1240	0.416	329.9	-53.1	-11.96	1.256	101.4	0.589	2.288	329.1	485.8	0.941	---	16.39	0.663	126.1	47.0	22.2	0.400
4-1020	4-1260	0.458	348.7	-63.8	-17.27	1.236	100.2	0.539	2.057	330.5	492.7	0.948	---	21.36	0.619	122.0	44.8	30.6	0.376
4-1020	4-1280	0.586	29.9	-67.6	-26.65	1.222	99.3	0.504	1.922	332.0	499.3	0.954	---	30.42	0.585	118.0	38.7	40.6	0.402
4-1020	4-1300	0.905	64.5	-55.0	-46.28	1.212	98.3	0.477	1.837	334.0	505.6	0.960	---	49.74	0.557	114.0	26.4	46.7	0.534
4-1020	4-1340	1.013	331.1	71.7	52.91	1.201	100.0	0.459	1.748	327.8	516.2	0.945	---	-50.06	0.518	107.7	27.0	-47.9	0.510
4-1020	4-1360	0.691	307.6	59.3	33.75	1.198	99.6	0.451	1.726	328.7	521.2	0.948	---	-31.19	0.504	104.2	32.3	-47.7	0.342
4-1020	4-1380	0.539	303.6	49.0	24.55	1.196	99.6	0.446	1.713	328.6	525.7	0.948	---	-22.29	0.493	101.0	32.4	-44.2	0.264
4-1020	4-1400	0.459	303.4	40.8	19.34	1.195	99.7	0.445	1.706	328.0	529.9	0.946	---	-17.38	0.485	97.9	30.3	-40.0	0.223
4-1020	4-1420	0.413	304.4	34.0	16.00	1.195	100.0	0.446	1.704	327.0	533.8	0.944	---	-14.33	0.478	95.0	27.5	-35.9	0.201
4-1020	4-1440	0.386	305.9	28.3	13.65	1.195	100.5	0.449	1.706	325.7	537.3	0.939	---	-12.28	0.473	92.2	25.0	-32.0	0.190
4-1020	4-1460	0.371	307.8	23.3	11.90	1.196	101.0	0.454	1.710	324.2	540.6	0.934	2.488	-10.82	0.469	89.5	23.2	-28.4	0.185
4-1020	4-1480	0.364	309.9	19.0	10.51	1.197	101.6	0.459	1.717	322.4	543.6	0.928	2.505	-9.74	0.466	86.9	22.1	-25.3	0.185
4-1020	4-1500	0.362	312.1	15.3	9.39	1.198	102.3	0.466	1.724	320.5	546.4	0.921	2.528	-8.92	0.464	84.5	21.7	-22.5	0.187
4-1020	4-1520	0.365	314.4	12.0	8.43	1.199	103.1	0.474	1.733	318.4	549.0	0.912	2.555	-8.29	0.463	82.1	22.1	-20.2	0.192
4-1020	4-1540	0.372	316.8	9.2	7.61	1.200	103.9	0.482	1.743	316.1	551.4	0.903	2.584	-7.79	0.463	79.7	23.0	-18.2	0.198
4-1020	4-1560	0.381	319.1	6.7	6.88	1.202	104.8	0.492	1.754	313.7	553.7	0.892	2.618	-7.40	0.464	77.5	24.5	-16.5	0.206
4-1020	4-1580	0.393	321.5	4.5	6.22	1.203	105.8	0.502	1.766	311.2	555.8	0.880	2.651	-7.09	0.465	75.2	26.4	-15.0	0.214
4-1020	4-1600	0.407	323.9	2.6	5.61	1.205	106.9	0.513	1.777	308.6	557.7	0.866	2.688	-6.85	0.467	73.1	28.7	-13.8	0.223
4-1020	4-1620	0.424	326.3	1.0	5.04	1.206	108.0	0.524	1.790	305.8	559.5	0.851	2.728	-6.67	0.470	70.9	31.3	-12.8	0.233
4-1020	4-1640	0.442	328.6	-0.3	4.50	1.208	109.2	0.537	1.802	302.9	561.1	0.835	2.769	-6.54	0.473	68.8	34.1	-11.9	0.243
4-1020	4-1660	0.463	331.0	-1.5	3.97	1.210	110.5	0.550	1.815	299.9	562.6	0.816	2.813	-6.45	0.476	66.7	37.2	-11.1	0.254
4-1020	4-1680	0.486	333.3	-2.4	3.46	1.211	111.9	0.565	1.828	296.7	564.0	0.796	2.859	-6.41	0.480	64.6	40.5	-10.5	0.266
4-1020	4-1700	0.511	335.6	-3.2	2.95	1.213	113.4	0.580	1.841	293.4	565.2	0.773	2.908	-6.40	0.485	62.5	44.1	-9.9	0.279
4-1020	4-1720	0.538	337.9	-3.9	2.44	1.214	115.0	0.596	1.854	289.9	566.3	0.749	2.959	-6.44	0.490	60.4	47.8	-9.4	0.292
4-1020	4-1740	0.568	340.3	-4.4	1.91	1.216	116.7	0.614	1.867	286.3	567.2	0.721	3.013	-6.52	0.495	58.3	51.6	-9.0	0.307
4-1020	4-1760	0.600	342.6	-4.7	1.37	1.218	118.5	0.632	1.881	282.5	568.0	0.691	3.070	-6.64	0.501	56.1	55.7	-8.6	0.323
4-1020	4-1780	0.636	344.9	-5.0	0.80	1.219	120.5	0.652	1.894	278.5	568.5	0.659	3.130	-6.82	0.507	53.9	60.0	-8.2	0.340
4-1030	4-1170	0.565	318.7	-24.0	-3.08	1.449	105.4	1.08510	.969	330.4	456.8	0.928	---	8.52	0.996	141.0	45.7	7.2	0.738
4-1030	4-1190	0.474	319.9	-28.4	-4.30	1.370	103.3	0.876	7.598	331.6	464.0	0.940	---	9.29	0.874	137.2	47.8	9.1	0.607
4-1030	4-1210	0.414	321.4	-34.3	-5.75	1.316	101.4	0.737	3.609	333.0	471.3	0.950	---	10.32	0.781	133.2	49.4	11.6	0.507

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1030	4-1230	0.377	324.0	-41.9	-7.55	1.278	99.9	0.641	2.669	334.6	478.7	0.958	---	11.73	0.711	129.1	50.4	15.1	0.431
4-1030	4-1250	0.365	328.9	-50.9	-9.88	1.252	98.6	0.574	2.265	336.2	485.9	0.965	---	13.68	0.657	125.0	50.6	19.9	0.375
4-1030	4-1270	0.380	339.3	-60.6	-13.10	1.233	97.7	0.527	2.050	337.7	492.9	0.970	---	16.54	0.615	121.0	49.4	26.3	0.339
4-1030	4-1290	0.433	2.5	-68.6	-17.89	1.220	96.9	0.494	1.923	339.0	499.6	0.974	---	20.99	0.582	117.1	46.3	34.4	0.328
4-1030	4-1310	0.551	42.0	-69.1	-25.83	1.211	96.3	0.470	1.843	340.2	505.8	0.977	---	28.59	0.556	113.4	40.3	43.1	0.357
4-1030	4-1330	0.803	70.8	-58.3	-40.91	1.204	95.7	0.453	1.792	341.7	511.7	0.980	---	43.34	0.535	109.7	30.8	48.5	0.461
4-1030	4-1370	1.223	13.5	80.2	66.44	1.197	98.1	0.446	1.739	333.4	521.0	0.963	---	-64.64	0.505	104.1	26.8	-45.8	0.618
4-1030	4-1390	0.802	309.7	69.6	40.83	1.196	97.6	0.440	1.727	334.8	525.7	0.967	---	-39.34	0.495	100.8	31.6	-50.1	0.402
4-1030	4-1410	0.591	303.3	57.7	28.39	1.195	97.6	0.438	1.721	334.8	529.9	0.967	---	-27.21	0.487	97.7	32.1	-48.1	0.296
4-1030	4-1430	0.481	303.4	48.3	21.59	1.195	97.9	0.439	1.719	334.0	533.7	0.965	---	-20.71	0.480	94.9	30.4	-44.2	0.243
4-1030	4-1450	0.418	305.1	40.5	17.36	1.195	98.2	0.441	1.721	332.9	537.2	0.962	---	-16.79	0.475	92.2	28.3	-39.7	0.215
4-1030	4-1470	0.382	307.4	33.8	14.46	1.196	98.7	0.445	1.726	331.4	540.5	0.958	2.494	-14.20	0.472	89.6	26.5	-35.4	0.200
4-1030	4-1490	0.360	309.9	28.0	12.33	1.197	99.3	0.450	1.733	329.7	543.5	0.954	2.512	-12.38	0.469	87.1	25.4	-31.4	0.193
4-1030	4-1510	0.349	312.7	23.0	10.69	1.198	99.9	0.455	1.741	327.8	546.3	0.948	2.533	-11.05	0.468	84.8	25.0	-27.9	0.191
4-1030	4-1530	0.344	315.5	18.6	9.36	1.199	100.6	0.462	1.750	325.8	548.9	0.941	2.558	-10.05	0.467	82.5	25.2	-24.8	0.193
4-1030	4-1550	0.345	318.3	14.8	8.26	1.200	101.4	0.469	1.760	323.6	551.3	0.934	2.586	-9.27	0.467	80.3	26.1	-22.2	0.196
4-1030	4-1570	0.349	321.1	11.5	7.31	1.202	102.3	0.478	1.771	321.3	553.6	0.925	2.618	-8.67	0.468	78.2	27.4	-20.0	0.201
4-1030	4-1590	0.357	323.9	8.7	6.48	1.203	103.2	0.486	1.782	318.8	555.7	0.915	2.649	-8.18	0.470	76.1	29.3	-18.2	0.208
4-1030	4-1610	0.368	326.7	6.3	5.74	1.205	104.2	0.496	1.794	316.3	557.7	0.904	2.688	-7.80	0.472	74.0	31.4	-16.6	0.215
4-1030	4-1630	0.381	329.5	4.2	5.06	1.206	105.2	0.506	1.806	313.6	559.6	0.892	2.720	-7.50	0.474	72.0	33.9	-15.3	0.223
4-1030	4-1650	0.397	332.1	2.5	4.43	1.208	106.3	0.517	1.818	310.8	561.3	0.878	2.758	-7.27	0.478	70.1	36.7	-14.2	0.232
4-1030	4-1670	0.415	334.8	1.0	3.83	1.209	107.5	0.529	1.831	307.8	562.9	0.863	2.799	-7.09	0.481	68.1	39.7	-13.2	0.242
4-1030	4-1690	0.434	337.4	-0.2	3.26	1.211	108.8	0.541	1.843	304.8	564.4	0.845	2.841	-6.98	0.485	66.2	42.9	-12.3	0.252
4-1030	4-1710	0.456	339.9	-1.2	2.70	1.212	110.1	0.555	1.856	301.6	565.7	0.827	2.886	-6.89	0.490	64.3	46.3	-11.6	0.263
4-1030	4-1730	0.480	342.4	-2.0	2.15	1.214	111.5	0.569	1.869	298.3	567.0	0.806	2.933	-6.85	0.495	62.4	49.9	-11.0	0.275
4-1030	4-1750	0.506	344.9	-2.6	1.60	1.216	113.1	0.584	1.882	294.8	568.0	0.783	2.982	-6.86	0.500	60.4	53.7	-10.4	0.288
4-1030	4-1770	0.535	347.4	-3.1	1.05	1.217	114.7	0.601	1.895	291.2	569.0	0.757	3.034	-6.91	0.506	58.5	57.7	-9.9	0.301
4-1030	4-1790	0.566	349.8	-3.4	0.48	1.219	116.5	0.618	1.909	287.3	569.8	0.729	3.088	-7.01	0.512	56.5	61.8	-9.5	0.316
4-1040	4-1160	0.631	320.1	-21.3	-2.31	1.543	103.8	1.360	-2.638	336.1	449.5	0.949	---	7.73	1.133	143.3	46.7	6.0	0.870
4-1040	4-1180	0.510	321.0	-24.7	-3.25	1.432	101.7	1.046	20.817	337.1	456.6	0.958	---	8.15	0.973	139.7	48.9	7.3	0.704
4-1040	4-1200	0.427	321.7	-29.4	-4.30	1.358	99.8	0.846	6.271	338.6	464.0	0.987	---	8.72	0.855	135.9	50.8	9.0	0.579
4-1040	4-1220	0.372	322.5	-35.4	-5.50	1.307	98.2	0.712	3.388	340.3	471.6	0.974	---	9.46	0.767	131.9	52.3	11.2	0.483
4-1040	4-1240	0.339	323.9	-42.6	-6.91	1.272	96.8	0.621	2.589	342.1	479.2	0.980	---	10.44	0.701	127.9	53.3	14.2	0.409
4-1040	4-1260	0.325	326.9	-50.8	-8.63	1.247	95.8	0.558	2.229	343.9	486.6	0.984	---	11.76	0.649	123.9	53.4	18.1	0.353
4-1040	4-1280	0.329	333.0	-59.4	-10.82	1.229	94.9	0.514	2.033	345.4	493.7	0.988	---	13.57	0.609	120.0	52.6	23.3	0.313
4-1040	4-1300	0.356	346.1	-67.5	-13.75	1.217	94.3	0.483	1.916	346.7	500.4	0.990	---	16.14	0.577	116.2	50.4	29.8	0.290
4-1040	4-1320	0.411	13.5	-72.9	-17.96	1.209	93.9	0.462	1.843	347.7	506.6	0.991	---	19.99	0.552	112.5	46.7	37.4	0.287
4-1040	4-1340	0.515	51.3	-71.5	-24.54	1.203	93.5	0.447	1.796	348.6	512.3	0.992	---	26.23	0.533	109.0	41.1	44.8	0.316
4-1040	4-1360	0.711	76.4	-62.1	-36.13	1.199	93.2	0.437	1.766	349.4	517.7	0.993	---	37.49	0.517	105.6	34.0	49.8	0.397
4-1040	4-1380	1.095	88.6	-45.7	-58.89	1.196	92.7	0.431	1.747	351.0	522.8	0.995	---	59.93	0.505	102.2	28.1	47.6	0.578
4-1040	4-1420	0.953	309.0	80.1	50.17	1.194	95.8	0.433	1.732	340.7	530.0	0.982	---	-49.77	0.488	97.5	38.0	-49.8	0.483
4-1040	4-1440	0.664	299.8	66.0	33.15	1.194	95.8	0.433	1.731	340.8	533.9	0.982	---	-33.06	0.482	94.6	33.3	-50.3	0.340
4-1040	4-1460	0.513	301.3	55.2	24.16	1.194	96.0	0.435	1.734	340.0	537.4	0.980	---	-24.38	0.477	92.0	31.7	-47.0	0.269
4-1040	4-1480	0.429	304.2	46.4	18.79	1.195	96.4	0.438	1.739	338.7	540.6	0.978	2.501	-19.32	0.474	89.5	30.0	-42.6	0.232
4-1040	4-1500	0.380	307.5	38.9	15.24	1.196	97.0	0.442	1.746	337.1	543.6	0.975	2.518	-16.07	0.472	87.1	28.7	-38.0	0.212
4-1040	4-1520	0.350	311.0	32.3	12.69	1.197	97.6	0.447	1.755	335.3	546.4	0.970	2.539	-13.84	0.471	84.9	28.2	-33.7	0.202
4-1040	4-1540	0.334	314.5	26.5	10.76	1.198	98.2	0.453	1.764	333.3	549.0	0.965	2.563	-12.22	0.471	82.7	28.3	-29.9	0.198
4-1040	4-1560	0.326	318.0	21.5	9.23	1.200	99.0	0.459	1.775	331.2	551.4	0.960	2.590	-11.02	0.471	80.6	29.0	-26.6	0.198
4-1040	4-1580	0.324	321.5	17.2	7.98	1.201	99.8	0.466	1.786	328.9	553.7	0.953	2.618	-10.09	0.472	78.6	30.3	-23.8	0.201
4-1040	4-1600	0.327	324.9	13.4	6.91	1.203	100.6	0.474	1.797	326.5	555.8	0.945	2.649	-9.36	0.474	76.6	32.0	-21.5	0.205
4-1040	4-1620	0.333	328.3	10.3	5.99	1.204	101.5	0.482	1.809	324.0	557.9	0.936	2.681	-8.79	0.476	74.7	34.1	-19.5	0.210
4-1040	4-1640	0.343	331.5	7.6	5.17	1.206	102.5	0.491	1.821	321.4	559.7	0.927	2.715	-8.33	0.479	72.8	36.5	-17.8	0.217
4-1040	4-1660	0.355	334.7	5.4	4.43	1.207	103.5	0.501	1.833	318.6	561.5	0.915	2.751	-7.97	0.482	71.0	39.2	-16.4	0.224
4-1040	4-1680	0.370	337.7	3.5	3.74	1.209	104.6	0.511	1.846	315.8	563.2	0.903	2.789	-7.68	0.486	69.2	42.1	-15.2	0.232
4-1040	4-1700	0.387	340.7	2.0	3.10	1.210	105.8	0.522	1.858	312.8	564.8	0.889	2.828	-7.48	0.490	67.4	45.3	-14.1	0.241
4-1040	4-1720	0.406	343.6	0.7	2.49	1.212	107.0	0.533	1.871	309.7	566.2	0.873	2.869	-7.29	0.495	65.7	48.6	-13.2	0.250
4-1040	4-1740	0.427	346.4	-0.3	1.90	1.213	108.3	0.546	1.884	306.5	567.6	0.856	2.912	-7.18	0.500	63.9	52.1	-12.4	0.261
4-1040	4-1760	0.450	349.1	-1.0	1.33	1.215	109.7	0.559	1.897	303.2	568.8	0.836	2.957	-7.11	0.505	62.2	55.8	-11.7	0.272
4-1040	4-1780	0.476	351.8	-1.6	0.75	1.216	111.2	0.573	1.910	299.7	569.9	0.815	3.004	-7.09	0.511	60.4	59.7	-11.1	0.284
4-1040	4-1800	0.503	354.4	-2.0	0.18	1.218	112.8	0.589	1.923	296.0	570.9	0.791	3.054	-7.11	0.517	58.6	63.7	-10.6	0.297
4-1050	4-1170	0.569	321.2	-22.4	-2.59	1.517	99.7	1.297	-3.288	342.9	449.5	0.976	---	7.43	1.098	142.1	49.7	6.1	0.826
4-1050	4-1190	0.458	321.5	-26.2	-3.44	1.413	97.9	1.000	44.358	344.3	458.9	0.983	---	7.72	0.946	138.5	51.8	7.2	0.668
4-1050	4-1210	0.384	321.3	-31.3	-4.35	1.344	96.2	0.810	5.213	346.1	464.7	0.988	---	8.11	0.834	134.6	53.5	8.8	0.548
4-1050	4-1230	0.336	321.0	-37.4	-5.36	1.296	94.8	0.685	3.154	348.2	472.6	0.993	---	8.64	0.751	130.7	54.8	10.8	0.457
4-1050	4-1250	0.307	321.0	-44.5	-6.50	1.263	93.7	0.600	2.493	350.3	480.4	0.996	---	9.33	0.687	126.7	55.6	13.4	0.386
4-1050	4-1270	0.294	322.0	-52.0	-7.82	1.240	92.7	0.542	2.181	352.2	488.0	0.998	---	10.23	0.638	122.7	55.6	16.7	0.331
4-1050	4-1290	0.295	325.0	-59.7	-9.41	1.224	92.1	0.502	2.007	353.8	495.1	0.999	---	11.43	0.600	118.8	54.8	21.0	0.291
4-1050	4-1310	0.310	331.9	-67.2	-11.40	1.213	91.6	0.474	1.902	355.1	501.8	1.000	---	13.03	0.571	115.1	52.9	26.3	0.263
4-1050	4-1330	0.340	347.3	-73.7	-13.99	1.205	91.3	0.455	1.836	356.0	507.9	1.001	---	15.27	0.547	111.5	49.9	32.5	0.250
4-1050	4-1350	0.392	19.2	-77.3	-17.58	1.200	91.1	0.442	1.794	356.5	513.5	1.001	---	18.51	0.529	108.1	45.7	39.2	0.253
4-1050	4-1370	0.479	57.8	-74.8	-22.95	1.196	91.0	0.434	1.767	356.8	518.7	1.001	---	23.54	0.514	104.8	40.7	45.5	0.278
4-1050	4-1390	0.631	81.1	-66.7	-31.81	1.194	90.9	0.428	1.751	357.0	523.5	1.001	---	32.08	0.503	101.7	35.7	50.1	0.341
4-1050	4-1410	0.914	93.4	-53.6	-48.27	1.193	90.7	0.426	1.743	357.6	528.0	1.001	---	48.21	0.494	98.6	32.4	50.4	0.473
4-1050	4-1450	1.159	170.5	87.9	62.96	1.193	94.2	0.430	1.741	346.1	534.1	0.993	---	-63.63	0.482	94.4	36.7	-46.8	0.591
4-1050	4-1470	0.767	289.1	73.7	39.45	1.193	94.0	0.430	1.744	346.7	537.7	0.993	---	-40.42	0.478	91.7	36.4	-50.9	0.399
4-1050	4-1490	0.559	296.2	61.4	27.29	1.194	94.2	0.433	1.750	346.0	541.0	0.992	2.508	-28.57	0.476	89.2	34.4	-49.0	0.302
4-1050	4-1510	0.446	301.5	51.6	20.39	1.195	94.7	0.437	1.758	344.6	544.0	0.991	2.525	-21.97	0.474	86.9	32.6	-44.7	0.252
4-1050	4-1530	0.381	306.3	43.3	16.01	1.196	95.2	0.441	1.767	342.9	546.7	0.988	2.546	-17.89	0.473	84.8	31.6	-39.9	0.226
4-1050	4-1550	0.342	310.9	35.9	12.97	1.198	95.8	0.446	1.777	341.0	549.3	0.985	2.569	-15.16	0.473	82.7	31.4	-35.4	0.212
4-1050	4-1570	0.320	315.5	29.4	10.72	1.199	96.5	0.451	1.787	338.9	551.7	0.980	2.594	-13.23	0.474	80.7	31.9	-31.3	0.206

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1050	4-1590	0.308	319.8	23.7	8.98	1.201	97.3	0.458	1.799	336.6	553.9	0.976	2.622	-11.80	0.475	78.8	33.1	-27.8	0.204
4-1050	4-1610	0.303	324.1	18.8	7.57	1.202	98.1	0.464	1.810	334.3	556.1	0.970	2.651	-10.71	0.477	76.9	34.7	-24.9	0.205
4-1050	4-1630	0.304	328.2	14.7	6.40	1.204	98.9	0.471	1.822	331.8	558.1	0.963	2.681	-9.86	0.480	75.1	36.7	-22.4	0.208
4-1050	4-1650	0.310	332.2	11.2	5.39	1.205	99.9	0.479	1.835	329.2	560.0	0.956	2.714	-9.20	0.483	73.4	39.0	-20.3	0.213
4-1050	4-1670	0.318	336.0	8.3	4.50	1.207	100.8	0.487	1.847	326.5	561.9	0.947	2.747	-8.68	0.486	71.7	41.6	-18.6	0.218
4-1050	4-1690	0.330	339.6	5.9	3.71	1.208	101.8	0.496	1.860	323.7	563.6	0.937	2.782	-8.24	0.490	70.0	44.5	-17.1	0.225
4-1050	4-1710	0.344	343.1	3.9	2.98	1.210	102.9	0.506	1.872	320.8	565.2	0.926	2.819	-7.90	0.494	68.4	47.6	-15.8	0.232
4-1050	4-1730	0.360	346.4	2.4	2.31	1.211	104.1	0.516	1.885	317.8	566.7	0.913	2.857	-7.63	0.499	66.7	50.9	-14.7	0.240
4-1050	4-1750	0.379	349.6	1.2	1.67	1.213	105.3	0.526	1.898	314.7	568.2	0.899	2.896	-7.43	0.504	65.1	54.3	-13.7	0.249
4-1050	4-1770	0.399	352.7	0.2	1.06	1.214	106.6	0.538	1.910	311.4	569.5	0.883	2.938	-7.28	0.510	63.5	58.0	-12.9	0.259
4-1050	4-1790	0.422	355.7	-0.5	0.47	1.215	107.9	0.550	1.923	308.1	570.7	0.865	2.981	-7.18	0.516	61.9	61.8	-12.2	0.269
4-1050	4-1810	0.446	358.6	-0.9	-0.11	1.217	109.4	0.563	1.936	304.5	571.8	0.845	3.027	-7.13	0.522	60.3	65.7	-11.6	0.281
4-1060	4-1180	0.514	320.4	-24.2	-2.87	1.488	95.3	1.223-4.467		350.4	450.3	0.996	---	7.04	1.059	140.9	52.4	6.0	0.779
4-1060	4-1200	0.415	319.5	-28.6	-3.64	1.392	93.8	0.94718.711		352.2	458.1	1.000	---	7.21	0.915	137.2	54.2	7.1	0.630
4-1060	4-1220	0.350	318.0	-34.1	-4.44	1.328	92.4	0.771	4.381	354.5	466.2	1.002	---	7.47	0.810	I33.3	55.7	8.5	0.517
4-1060	4-1240	0.310	316.1	-40.3	-5.30	1.284	91.2	0.656	2.920	356.9	474.4	1.004	---	7.83	0.731	129.4	56.8	10.3	0.430
4-1060	4-1260	0.286	314.3	-46.9	-6.24	1.254	90.3	0.579	2.386	359.2	482.4	1.004	---	8.30	0.671	125.3	57.3	12.6	0.363
4-1060	4-1280	0.276	313.1	-53.6	-7.28	1.233	89.6	0.527	2.122	1.2	130.1	---	---	8.92	0.625	I21.4	57.1	15.5	0.310
4-1060	4-1300	0.276	313.1	-60.2	-8.49	1.218	89.1	0.491	1.972	2.9	137.2	---	---	9.72	0.590	117.5	56.1	19.0	0.270
4-1060	4-1320	0.285	315.1	-66.6	-9.91	1.208	88.7	0.466	1.881	4.1	143.8	---	---	10.78	0.562	113.8	54.2	23.4	0.242
4-1060	4-1340	0.303	321.2	-72.7	-11.66	1.201	88.5	0.450	1.823	4.8	149.8	---	---	12.14	0.541	110.3	51.3	28.-	0.224
4-1060	4-1360	0.332	336.2	-78.2	-13.89	1.197	88.4	0.439	1.787	5.1	155.3	---	---	14.03	0.524	107.0	47.6	33.9	0.217
4-1060	4-1380	0.376	12.9	-81.6	-16.88	1.194	88.5	0.432	1.764	5.1	160.2	---	---	16.69	0.510	103.8	43.4	39.6	0.223
4-1060	4-1400	0.446	60.0	-79.3	-21.18	1.192	88.6	0.427	1.752	4.8	164.8	---	---	20.67	0.500	100.8	39.2	44.9	0.245
4-1060	4-1420	0.560	84.4	-72.1	-27.90	1.191	88.7	0.425	1.745	4.4	169.0	---	---	27.08	0.492	97.9	35.9	49.3	0.293
4-1060	4-1440	0.764	97.0	-61.4	-39.66	1.191	88.8	0.425	1.744	4.1	172.9	---	---	38.53	0.486	95.2	34.7	51.4	0.386
4-1060	4-1460	1.145	105.6	-45.3	-62.37	1.191	88.6	0.425	1.746	4.6	176.7	---	---	60.94	0.481	92.5	36.9	47.7	0.569
4-1060	4-1500	0.917	256.5	79.6	48.40	1.193	92.3	0.430	1.758	352.4	541.5	1.002	2.515	-50.41	0.476	88.9	41.4	-49.9	0.480
4-1060	4-1520	0.625	286.5	66.7	31.37	1.194	92.5	0.433	1.767	351.9	544.5	1.001	2.532	-33.67	0.475	86.6	38.5	-50.1	0.343
4-1060	4-1540	0.471	296.6	55.9	22.26	1.195	92.9	0.437	1.776	350.5	547.2	1.000	2.553	-24.85	0.475	84.5	36.2	-46.3	0.275
4-1060	4-1560	0.386	303.7	46.7	16.79	1.197	93.5	0.441	1.787	348.7	549.7	0.998	2.576	-19.67	0.475	82.5	35.1	-41.3	0.240
4-1060	4-1580	0.336	309.9	38.6	13.16	1.198	94.1	0.446	1.798	346.7	552.1	0.996	2.600	-16.33	0.476	80.6	35.1	-36.5	0.222
4-1060	4-1600	0.306	315.6	31.3	10.56	1.200	94.8	0.451	1.810	344.5	554.3	0.993	2.627	-14.02	0.478	78.8	35.9	-32.2	0.213
4-1060	4-1620	0.290	321.0	25.0	8.59	1.201	95.6	0.457	1.822	342.1	556.5	0.989	2.655	-12.36	0.480	77.0	37.3	-28.5	0.210
4-1060	4-1640	0.283	326.1	19.5	7.03	1.203	96.4	0.463	1.834	339.7	558.5	0.984	2.684	-11.10	0.483	75.3	39.2	-25.4	0.209
4-1060	4-1660	0.283	331.0	15.0	5.75	1.204	97.3	0.470	1.847	337.1	560.4	0.979	2.715	-10.14	0.486	73.7	41.4	-22.8	0.212
4-1060	4-1680	0.287	335.6	11.1	4.66	1.206	98.2	0.477	1.859	334.4	562.3	0.972	2.746	-9.38	0.490	72.1	44.0	-20.7	0.215
4-1060	4-1700	0.295	340.1	8.1	3.73	1.207	99.2	0.485	1.872	331.7	564.0	0.965	2.779	-8.78	0.494	70.5	46.8	-18.8	0.220
4-1060	4-1720	0.306	344.3	5.6	2.89	1.209	100.2	0.493	1.885	328.8	565.7	0.956	2.813	-8.29	0.499	69.0	49.8	-17.3	0.226
4-1060	4-1740	0.319	348.2	3.6	2.14	1.210	101.2	0.501	1.898	325.9	567.3	0.946	2.849	-7.91	0.503	67.5	53.1	-16.0	0.233
4-1060	4-1760	0.335	352.0	2.1	1.45	1.212	102.4	0.510	1.910	322.8	568.8	0.935	2.888	-7.60	0.509	66.0	58.5	-14.8	0.240
4-1060	4-1780	0.353	355.5	1.0	0.80	1.213	103.6	0.520	1.923	319.6	570.2	0.922	2.924	-7.36	0.514	64.6	60.1	-13.9	0.249
4-1060	4-1800	0.373	358.9	0.2	0.18	1.215	104.8	0.531	1.936	316.3	571.5	0.908	2.964	-7.18	0.520	63.1	63.8	-13.0	0.258
4-1060	4-1820	0.395	2.2	-0.4	-0.41	1.216	106.2	0.543	1.949	312.9	572.7	0.891	3.008	-7.05	0.527	61.6	67.7	-12.3	0.268
4-1070	4-1170	0.608	318.2	-22.9	-2.48	1.595	91.8	1.562-1.789		357.0	444.1	1.006	---	6.56	1.208	143.2	53.0	5.1	0.927
4-1070	4-1190	0.471	317.0	-26.8	-3.18	1.458	90.7	1.140-7.185		358.7	451.8	1.007	---	6.56	1.017	139.8	54.7	5.9	0.732
4-1070	4-1210	0.385	314.6	-31.7	-3.87	1.370	89.5	0.889	9.039	1.0	100.1	---	---	6.64	0.882	I36.0	56.2	6.9	0.591
4-1070	4-1230	0.331	311.3	-37.2	-4.57	1.311	88.4	0.730	3.728	3.7	108.7	---	---	6.78	0.783	I32.1	57.5	8.1	0.485
4-1070	4-1250	0.298	307.5	-42.9	-5.31	1.271	87.5	0.627	2.695	6.5	117.2	---	---	7.01	0.709	128.0	58.2	9.7	0.403
4-1070	4-1270	0.280	303.9	-48.5	-6.08	1.244	86.8	0.559	2.274	9.0	125.3	---	---	7.32	0.853	I24.0	58.4	11.7	0.339
4-1070	4-1290	0.273	300.8	-53.9	-6.92	1.225	86.3	0.513	2.056	11.1	133.0	---	---	7.73	0.610	120.0	57.9	14.2	0.290
4-1070	4-1310	0.272	298.6	-59.0	-7.85	1.212	85.9	0.482	1.930	12.7	140.0	---	---	8.26	0.577	116.2	56.5	17.2	0.252
4-1070	4-1330	0.278	297.7	-63.9	-8.91	1.203	85.7	0.461	1.853	13.7	146.4	---	---	8.94	0.552	I12.5	54.3	20.7	0.224
4-1070	4-1350	0.288	298.5	-68.9	-10.15	1.197	85.6	0.447	1.804	14.2	152.2	---	---	9.82	0.532	109.0	51.3	24.7	0.205
4-1070	4-1370	0.305	301.9	-73.9	-11.64	1.193	85.7	0.438	1.774	14.3	157.5	---	---	10.98	0.517	105.7	47.7	29.1	0.195
4-1070	4-1390	0.329	310.6	-79.0	-13.50	1.190	85.8	0.432	1.757	14.0	162.2	---	---	12.52	0.505	I02.6	43.7	33.7	0.193
4-1070	4-1410	0.364	336.5	-83.8	-15.94	1.189	86.0	0.428	1.747	13.4	166.5	---	---	14.64	0.496	99.7	39.9	38.2	0.200
4-1070	4-1430	0.417	47.0	-84.4	-19.32	1.189	86.3	0.427	1.744	12.5	170.4	---	---	17.72	0.489	97.0	36.8	42.7	0.218
4-1070	4-1450	0.500	84.7	-78.5	-24.36	1.189	86.6	0.426	1.745	11.5	174.1	---	---	22.47	0.483	94.4	35.0	46.9	0.252
4-1070	4-1470	0.643	99.0	-69.5	-32.67	1.189	86.9	0.427	1.749	10.5	177.5	---	---	30.50	0.480	91.9	35.2	50.2	0.317
4-1070	4-1490	0.910	108.6	-56.7	-48.21	1.190	87.0	0.429	1.755	9.9	180.7	---	2.508	45.78	0.477	89.5	38.7	50.6	0.442
4-1070	4-1530	1.139	200.0	77.1	61.98	1.193	90.7	0.432	1.773	357.1	544.9	1.007	2.539	-64.97	0.475	86.3	48.4	-46.4	0.593
4-1070	4-1550	0.722	269.7	70.6	37.13	1.194	90.7	0.436	1.784	357.7	547.8	1.007	2.560	-40.39	0.475	84.1	44.3	-50.4	0.398
4-1070	4-1570	0.508	289.7	59.2	24.59	1.196	91.1	0.439	1.795	356.3	550.3	1.006	2.583	-28.12	0.476	82.1	40.8	-47.4	0.302
4-1070	4-1590	0.394	300.2	49.1	17.61	1.197	91.7	0.443	1.807	354.5	552.7	1.006	2.608	-21.41	0.478	80.3	39.2	-42.4	0.255
4-1070	4-1610	0.330	308.2	40.0	13.24	1.199	92.4	0.448	1.819	352.3	554.9	1.004	2.634	-17.31	0.480	78.5	39.1	-37.2	0.231
4-1070	4-1630	0.294	315.2	32.0	10.23	1.200	93.1	0.453	1.832	350.0	557.0	1.002	2.661	-14.58	0.483	76.9	40.1	-32.6	0.220
4-1070	4-1650	0.274	321.6	25.0	8.03	1.202	93.9	0.458	1.844	347.6	559.0	1.000	2.689	-12.65	0.486	75.3	41.7	-28.7	0.214
4-1070	4-1670	0.265	327.7	18.9	6.32	1.203	94.7	0.464	1.857	345.1	560.9	0.996	2.718	-11.23	0.489	73.7	43.8	-25.4	0.213
4-1070	4-1690	0.263	333.4	14.0	4.95	1.205	95.6	0.470	1.870	342.4	562.8	0.992	2.748	-10.15	0.493	72.2	46.3	-22.7	0.215
4-1070	4-1710	0.266	338.8	9.9	3.81	1.206	96.5	0.476	1.883	339.7	564.5	0.987	2.780	-9.31	0.498	70.8	49.0	-20.4	0.218
4-1070	4-1730	0.273	343.9	6.7	2.84	1.208	97.5	0.483	1.896	336.8	566.2	0.981	2.812	-8.65	0.502	69.4	52.0	-18.6	0.222
4-1070	4-1750	0.283	348.6	4.2	1.98	1.209	98.5	0.490	1.909	333.9	567.9	0.973	2.845	-8.12	0.507	68.0	55.2	-17.0	0.227
4-1070	4-1770	0.296	353.1	2.4	1.22	1.211	99.6	0.498	1.922	330.9	569.4	0.985	2.879	-7.69	0.513	66.6	58.6	-15.7	0.234
4-1070	4-1790	0.312	357.3	1.0	0.52	1.212	100.7	0.507	1.935	327.8	570.9	0.955	2.915	-7.35	0.519	65.3	62.2	-14.5	0.241
4-1070	4-1810	0.329	1.3	0.1	-0.12	1.214	101.9	0.516	1.948	324.5	572.3	0.943	2.952	-7.08	0.525	64.0	65.9	-13.5	0.248
4-1070	4-1830	0.349	5.0	-0.6	-0.73	1.215	103.2	0.525	1.960	321.2	573.6	0.930	2.990	-6.88	0.531	62.7	69.7	-12.7	0.257
4-1080	4-1180	0.567	314.1	-25.5	-2.87	1.552	86.7	1.429-2.347		5.6	86.1	---	---	6.07	1.151	142.4	54.9	4.9	0.868
4-1080	4-1200	0.447	311.0	-29.8	-3.51	1.426	85.9	1.05219.288		8.0	94.4	---	---	6.00	0.971	I38.8	58.4	5.6	0.685
4-1080	4-1220	0.374	306.7	-34.6	-4.13	1.346	85.0	0.829	5.849	10.9	103.3	---	---	5.99	0.845	I34.9	57.6	6.5	0.553

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1080	4-1240	0.331	301.8	-39.5	-4.75	1.292	84.3	0.690	3.213	14.1	112.3	---	---	6.05	0.752	130.8	58.5	7.6	0.453
4-1080	4-1260	0.306	296.8	-44.0	-5.37	1.257	83.6	0.600	2.484	17.1	121.0	---	---	6.17	0.683	126.7	58.9	9.0	0.376
4-1080	4-1280	0.292	292.4	-48.2	-6.01	1.232	83.1	0.542	2.159	19.7	129.2	---	---	6.35	0.632	122.6	58.6	10.7	0.317
4-1080	4-1300	0.286	288.8	-52.0	-6.69	1.216	82.8	0.503	1.984	21.7	136.8	---	---	6.61	0.592	118.6	57.6	12.8	0.271
4-1080	4-1320	0.285	286.3	-55.6	-7.42	1.204	82.6	0.477	1.882	23.1	143.6	---	---	6.95	0.562	114.7	55.8	15.2	0.235
4-1080	4-1340	0.288	284.9	-59.1	-8.22	1.197	82.5	0.460	1.819	23.9	149.7	---	---	7.39	0.539	111.0	53.3	18.1	0.209
4-1080	4-1360	0.293	284.5	-62.8	-9.12	1.192	82.6	0.448	1.780	24.2	155.2	---	---	7.95	0.522	107.6	50.0	21.2	0.190
4-1080	4-1380	0.301	285.3	-66.7	-10.16	1.188	82.7	0.441	1.757	23.9	160.1	---	---	8.68	0.508	104.3	46.3	24.5	0.179
4-1080	4-1400	0.313	287.4	-70.8	-11.39	1.187	83.0	0.436	1.744	23.3	164.6	---	---	9.59	0.498	101.3	42.5	27.8	0.174
4-1080	4-1420	0.331	291.4	-75.4	-12.90	1.186	83.3	0.433	1.739	22.4	168.6	---	---	10.81	0.490	98.5	39.0	31.3	0.175
4-1080	4-1440	0.356	299.5	-80.4	-14.83	1.186	83.7	0.431	1.738	21.2	172.3	---	---	12.46	0.484	95.8	36.1	34.8	0.182
4-1080	4-1460	0.394	326.1	-85.6	-17.42	1.186	84.1	0.431	1.742	19.8	175.6	---	---	14.78	0.480	93.3	34.1	38.5	0.196
4-1080	4-1480	0.452	66.8	-85.5	-21.13	1.187	84.5	0.431	1.748	18.3	178.8	---	---	18.23	0.477	90.9	33.5	42.6	0.221
4-1080	4-1500	0.548	97.2	-78.1	-26.94	1.188	85.0	0.432	1.756	16.7	181.7	---	2.515	23.78	0.475	88.7	34.6	46.7	0.263
4-1080	4-1520	0.723	109.2	-67.8	-37.19	1.190	85.4	0.434	1.766	15.4	184.5	---	2.533	33.77	0.475	86.5	38.5	50.0	0.344
4-1080	4-1540	1.073	119.0	-52.3	-58.00	1.191	85.5	0.437	1.776	14.7	187.3	---	2.553	54.34	0.475	84.4	46.5	48.8	0.510
4-1080	4-1580	0.877	243.0	71.7	46.17	1.194	89.0	0.440	1.800	3.2	191.0	---	2.592	-50.32	0.477	81.6	51.9	-49.4	0.478
4-1080	4-1600	0.561	280.7	61.5	27.77	1.196	89.4	0.443	1.813	2.1	193.4	---	2.617	-32.18	0.479	79.8	46.3	-48.3	0.336
4-1080	4-1620	0.407	296.1	50.3	18.53	1.197	89.9	0.447	1.826	0.2	195.6	---	2.642	-23.16	0.481	78.1	43.7	-43.1	0.271
4-1080	4-1640	0.327	306.3	40.2	13.18	1.199	90.6	0.451	1.839	358.0	357.7	1.009	2.669	-18.05	0.484	76.5	43.4	-37.4	0.240
4-1080	4-1660	0.283	314.7	31.1	9.71	1.201	91.4	0.456	1.852	355.6	359.6	1.008	2.698	-14.83	0.488	75.0	44.4	-32.4	0.225
4-1080	4-1680	0.259	322.2	23.2	7.26	1.202	92.2	0.460	1.866	353.0	361.5	1.007	2.724	-12.63	0.492	73.5	46.2	-28.1	0.219
4-1080	4-1700	0.248	329.1	16.7	5.43	1.204	93.0	0.465	1.879	350.4	363.4	1.005	2.753	-11.05	0.496	72.1	48.5	-24.7	0.217
4-1080	4-1720	0.245	335.7	11.3	3.99	1.205	93.9	0.471	1.893	347.7	365.1	1.002	2.783	-9.88	0.501	70.8	51.2	-21.9	0.217
4-1080	4-1740	0.248	341.8	7.2	2.81	1.207	94.9	0.476	1.906	344.9	366.8	0.998	2.814	-8.97	0.506	69.5	54.1	-19.6	0.220
4-1080	4-1760	0.254	347.5	4.0	1.82	1.208	95.9	0.482	1.919	342.0	368.5	0.993	2.845	-8.26	0.511	68.2	57.3	-17.7	0.224
4-1080	4-1780	0.264	352.9	1.7	0.97	1.210	96.9	0.489	1.932	339.0	370.1	0.987	2.877	-7.70	0.517	67.0	60.7	-16.2	0.229
4-1080	4-1800	0.277	357.8	0.1	0.21	1.211	98.0	0.496	1.945	335.9	371.6	0.980	2.910	-7.25	0.523	65.8	64.2	-14.9	0.235
4-1080	4-1820	0.292	2.5	-1.0	-0.47	1.213	99.1	0.504	1.958	332.7	373.0	0.972	2.945	-6.89	0.529	64.6	67.9	-13.7	0.242
4-1080	4-1840	0.308	6.8	-1.7	-1.09	1.214	100.3	0.512	1.971	329.3	374.4	0.962	2.981	-6.60	0.536	63.4	71.8	-12.8	0.249
4-1090	4-1190	0.550	307.9	-28.2	-3.30	1.507	81.3	1.291	-3.410	15.5	89.3	---	---	5.47	1.090	141.8	56.3	4.5	0.810
4-1090	4-1210	0.447	303.1	-32.3	-3.88	1.393	80.9	0.964	27.169	18.6	98.4	---	---	5.34	0.922	138.0	57.4	5.2	0.639
4-1090	4-1230	0.387	297.6	-36.4	-4.43	1.321	80.4	0.771	4.284	22.2	107.8	---	---	5.27	0.804	133.9	58.3	5.9	0.515
4-1090	4-1250	0.353	292.1	-40.0	-4.96	1.273	79.9	0.653	2.804	25.7	117.2	---	---	5.25	0.719	129.6	58.7	6.9	0.422
4-1090	4-1270	0.333	287.2	-43.2	-5.49	1.241	79.5	0.579	2.292	28.9	126.0	---	---	5.29	0.655	125.4	58.6	8.1	0.351
4-1090	4-1290	0.322	283.4	-45.9	-6.02	1.220	79.2	0.531	2.046	31.4	134.1	---	---	5.38	0.608	121.1	57.8	9.5	0.296
4-1090	4-1310	0.316	280.6	-48.5	-6.56	1.206	79.1	0.499	1.910	33.1	141.3	---	---	5.53	0.572	117.1	56.3	11.2	0.293
4-1090	4-1330	0.314	278.9	-50.9	-7.13	1.196	79.1	0.478	1.829	34.2	147.8	---	---	5.73	0.545	113.2	54.0	13.1	0.221
4-1090	4-1350	0.313	278.1	-53.5	-7.74	1.190	79.2	0.464	1.780	34.6	153.5	---	---	6.00	0.525	109.5	51.0	15.2	0.197
4-1090	4-1370	0.314	278.1	-56.1	-8.40	1.186	79.4	0.454	1.751	34.5	158.6	---	---	6.35	0.509	106.0	47.5	17.5	0.180
4-1090	4-1390	0.317	278.9	-59.0	-9.14	1.184	79.7	0.448	1.735	33.9	163.1	---	---	6.78	0.498	102.8	43.8	19.8	0.169
4-1090	4-1410	0.321	280.4	-62.2	-9.97	1.182	80.0	0.443	1.727	33.0	167.2	---	---	7.34	0.489	99.8	40.2	22.1	0.164
4-1090	4-1430	0.328	282.6	-65.6	-10.95	1.182	80.4	0.441	1.726	31.7	170.9	---	---	8.06	0.483	97.0	37.0	24.4	0.162
4-1090	4-1450	0.338	285.8	-69.5	-12.13	1.183	80.9	0.439	1.729	30.2	174.3	---	---	8.99	0.478	94.4	34.4	26.8	0.165
4-1090	4-1470	0.354	290.4	-73.9	-13.61	1.184	81.4	0.438	1.735	28.5	177.5	---	---	10.22	0.475	92.0	32.7	29.5	0.171
4-1090	4-1490	0.378	297.9	-78.9	-15.54	1.185	81.9	0.439	1.743	26.7	180.4	---	2.508	11.91	0.473	89.7	31.9	32.5	0.182
4-1090	4-1510	0.415	316.3	-84.4	-18.20	1.186	82.5	0.439	1.753	24.8	183.1	---	2.523	14.35	0.472	87.6	32.2	36.2	0.198
4-1090	4-1530	0.475	59.3	-86.6	-22.18	1.188	83.1	0.440	1.765	22.8	185.7	---	2.542	18.10	0.472	85.6	33.7	40.6	0.225
4-1090	4-1550	0.583	103.2	-78.8	-28.78	1.189	83.6	0.442	1.777	20.9	188.1	---	2.563	24.48	0.473	83.6	37.2	45.5	0.273
4-1090	4-1570	0.800	117.6	-66.8	-41.56	1.191	84.1	0.444	1.790	19.3	190.5	---	2.585	37.05	0.475	81.8	44.5	49.4	0.373
4-1090	4-1590	1.270	130.0	-47.3	-70.50	1.193	84.2	0.448	1.803	18.7	193.0	---	2.611	65.78	0.477	79.9	56.9	45.6	0.599
4-1090	4-1610	1.140	211.6	66.8	62.12	1.194	87.4	0.445	1.817	8.3	194.0	---	2.625	-67.05	0.479	79.3	61.7	-45.5	0.608
4-1090	4-1630	0.646	268.9	62.8	32.62	1.196	87.6	0.449	1.831	7.7	196.3	---	2.652	-37.77	0.482	77.5	53.3	-48.9	0.382
4-1090	4-1650	0.426	292.2	50.7	19.61	1.198	88.2	0.452	1.844	5.9	198.4	---	2.679	-24.97	0.486	76.0	48.7	-43.7	0.288
4-1090	4-1670	0.324	305.1	38.8	12.93	1.200	88.9	0.456	1.858	3.6	200.3	---	2.708	-18.50	0.490	74.5	47.9	-37.1	0.248
4-1090	4-1690	0.272	314.8	28.3	8.91	1.201	89.7	0.460	1.872	1.1	202.2	---	2.733	-14.70	0.494	73.2	48.8	-31.5	0.230
4-1090	4-1710	0.246	323.2	19.5	6.23	1.203	90.5	0.464	1.886	358.4	564.0	1.012	2.761	-12.23	0.498	71.9	50.8	-26.9	0.222
4-1090	4-1730	0.234	330.9	12.3	4.30	1.205	91.4	0.468	1.900	355.7	565.8	1.011	2.790	-10.52	0.503	70.6	53.3	-23.3	0.219
4-1090	4-1750	0.231	338.1	6.8	2.82	1.206	92.3	0.473	1.914	352.9	567.5	1.009	2.819	-9.27	0.509	69.4	56.2	-20.4	0.220
4-1090	4-1770	0.234	344.8	2.7	1.65	1.208	93.2	0.478	1.928	350.0	569.1	1.007	2.848	-8.33	0.514	68.2	59.3	-18.2	0.222
4-1090	4-1790	0.240	351.1	-0.2	0.67	1.209	94.2	0.483	1.941	347.0	570.7	1.003	2.879	-7.60	0.520	67.1	62.7	-16.3	0.226
4-1090	4-1810	0.250	356.9	-2.1	-0.15	1.211	95.3	0.489	1.954	343.9	572.3	0.999	2.910	-7.03	0.527	66.0	66.2	-14.8	0.231
4-1090	4-1830	0.261	2.4	-3.4	-0.87	1.212	96.4	0.495	1.968	340.7	573.8	0.993	2.942	-6.57	0.533	64.9	69.9	-13.5	0.236
4-1090	4-1850	0.276	7.5	-4.0	-1.52	1.213	97.5	0.502	1.981	337.4	575.2	0.986	2.978	-6.21	0.540	63.8	73.7	-12.5	0.243
4-1100	4-1200	0.562	300.7	-30.3	-3.80	1.462	75.6	1.155	-6.145	26.9	94.1	---	---	4.74	1.027	141.5	56.8	4.0	0.756
4-1100	4-1220	0.474	295.1	-33.7	-4.31	1.359	75.6	0.881	7.948	30.9	104.0	---	---	4.57	0.871	137.4	57.6	4.5	0.596
4-1100	4-1240	0.424	289.5	-36.7	-4.79	1.295	75.4	0.722	3.366	35.0	113.9	---	---	4.45	0.762	133.0	58.0	5.2	0.480
4-1100	4-1260	0.395	284.8	-39.1	-5.23	1.253	75.3	0.625	2.477	38.7	123.4	---	---	4.39	0.683	128.5	57.9	6.0	0.394
4-1100	4-1280	0.378	281.1	-41.1	-5.67	1.225	75.2	0.565	2.119	41.7	132.0	---	---	4.37	0.625	124.1	57.2	6.9	0.328
4-1100	4-1300	0.367	278.5	-43.0	-6.09	1.207	75.2	0.527	1.937	43.8	139.7	---	---	4.40	0.582	119.7	55.9	8.0	0.277
4-1100	4-1320	0.360	276.8	-44.7	-6.52	1.195	75.3	0.502	1.834	45.1	146.5	---	---	4.46	0.550	115.5	53.8	9.3	0.239
4-1100	4-1340	0.355	276.1	-46.4	-6.95	1.187	75.5	0.485	1.774	45.7	152.4	---	---	4.56	0.526	111.5	51.0	10.7	0.210
4-1100	4-1360	0.352	276.0	-48.2	-7.41	1.182	75.7	0.473	1.738	45.7	157.6	---	---	4.72	0.508	107.8	47.6	12.2	0.189
4-1100	4-1380	0.349	276.5	-50.1	-7.89	1.180	76.1	0.465	1.718	45.1	162.2	---	---	4.91	0.495	104.3	44.0	13.7	0.174
4-1100	4-1400	0.347	277.6	-52.2	-8.41	1.178	76.5	0.460	1.709	44.1	166.4	---	---	5.17	0.486	101.1	40.4	15.1	0.165
4-1100	4-1420	0.345	279.1	-54.5	-8.98	1.178	76.9	0.456	1.707	42.8	170.1	---	---	5.50	0.479	98.1	37.1	16.5	0.160
4-1100	4-1440	0.345	281.2	-57.0	-9.62	1.178	77.5	0.453	1.710	41.2	173.4	---	---	5.91	0.474	95.4	34.4	17.9	0.158
4-1100	4-1460	0.347	283.7	-59.8	-10.36	1.179	78.0	0.451	1.716	39.4	176.5	---	---	6.43	0.471	92.8	32.4	19.4	0.159
4-1100	4-1480	0.351	286.9	-62.9	-11.24	1.181	78.6	0.450	1.725	37.5	179.4	---	---	7.10	0.469	90.5	31.1	21.0	0.162
4-1100	4-1500	0.358	290.8	-66.5	-12.32	1.182	79.2	0.449	1.736	35.4	182.1	---	2.516	7.98	0.468	88.3	30.6	22.9	0.167

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1100	4-1520	0.370	295.9	-70.6	-13.70	1.184	79.9	0.449	1.748	33.2	184.6	---	2.533	9.16	0.468	86.2	30.9	25.2	0.175
4-1100	4-1540	0.390	303.0	-75.3	-15.54	1.186	80.5	0.450	1.761	31.0	187.0	---	2.553	10.82	0.469	84.3	31.8	28.2	0.185
4-1100	4-1560	0.424	316.4	-80.9	-18.18	1.187	81.2	0.451	1.775	28.7	189.3	---	2.574	13.27	0.471	82.5	33.6	32.2	0.201
4-1100	4-1580	0.485	12.4	-86.3	-22.31	1.189	81.9	0.452	1.789	26.4	191.5	---	2.597	17.22	0.473	80.8	36.6	37.4	0.228
4-1100	4-1600	0.605	103.3	-80.6	-29.74	1.191	82.5	0.453	1.803	24.2	193.6	---	2.621	24.47	0.476	79.2	41.9	43.8	0.280
4-1100	4-1620	0.882	125.7	-66.2	-46.24	1.193	83.0	0.456	1.818	22.4	195.7	---	2.646	40.79	0.479	77.6	52.7	48.7	0.407
4-1100	4-1660	0.798	251.7	63.0	41.40	1.197	85.9	0.456	1.848	13.1	199.1	---	2.690	-47.20	0.486	75.3	82.5	-48.7	0.459
4-1100	4-1680	0.454	288.7	50.5	21.05	1.199	86.4	0.459	1.862	11.4	201.1	---	2.716	-27.02	0.491	73.9	54.2	-44.1	0.308
4-1100	4-1700	0.320	305.1	36.0	12.38	1.200	87.1	0.462	1.877	9.0	202.9	---	2.745	-18.53	0.495	72.6	52.4	-36.3	0.254
4-1100	4-1720	0.262	316.1	23.4	7.75	1.202	88.0	0.465	1.892	6.4	204.7	---	2.772	-14.07	0.500	71.4	53.3	-29.7	0.232
4-1100	4-1740	0.236	325.2	13.3	4.86	1.204	88.8	0.469	1.906	3.7	206.5	---	2.799	-11.37	0.506	70.2	55.5	-24.8	0.224
4-1100	4-1760	0.226	333.3	5.7	2.89	1.205	89.7	0.472	1.920	0.9	208.2	---	2.827	-9.57	0.511	69.1	58.2	-21.0	0.221
4-1100	4-1780	0.223	340.9	0.3	1.43	1.207	90.7	0.476	1.934	358.0	569.8	1.013	2.855	-8.31	0.517	68.0	61.3	-18.2	0.222
4-1100	4-1800	0.226	348.1	-3.4	0.30	1.208	91.6	0.480	1.948	355.0	571.4	1.012	2.884	-7.37	0.524	67.0	64.6	-16.0	0.225
4-1100	4-1820	0.232	354.8	-5.8	-0.62	1.210	92.7	0.485	1.962	351.9	573.0	1.010	2.914	-8.65	0.530	66.0	68.2	-14.2	0.228
4-1100	4-1840	0.241	1.0	-7.2	-1.38	1.211	93.7	0.490	1.976	348.7	574.5	1.007	2.944	-6.10	0.537	65.0	71.9	-12.8	0.233
4-1100	4-1860	0.251	6.9	-7.8	-2.04	1.213	94.8	0.496	1.989	345.4	576.0	1.003	2.975	-5.66	0.544	64.0	75.7	-11.6	0.239
4-1110	4-1210	0.602	294.2	-31.4	-4.39	1.417	69.6	1.033	26.963	40.2	100.8	---	---	3.87	0.962	141.5	56.5	3.3	0.707
4-1110	4-1230	0.524	288.8	-33.9	-4.82	1.326	70.0	0.812	4.688	44.9	111.4	---	---	3.68	0.817	137.0	56.8	3.7	0.557
4-1110	4-1250	0.480	284.3	-35.9	-5.21	1.269	70.3	0.685	2.772	49.2	121.5	---	---	3.54	0.716	132.3	56.7	4.2	0.450
4-1110	4-1270	0.453	280.9	-37.5	-5.57	1.232	70.5	0.610	2.214	52.7	130.7	---	---	3.45	0.644	127.5	56.1	4.8	0.370
4-1110	4-1290	0.436	278.5	-38.9	-5.91	1.209	70.7	0.564	1.965	55.2	138.8	---	---	3.40	0.591	122.8	54.7	5.5	0.309
4-1110	4-1310	0.424	277.1	-40.1	-6.23	1.194	70.9	0.534	1.834	56.8	145.9	---	---	3.37	0.553	118.2	52.7	6.3	0.263
4-1110	4-1330	0.415	276.4	-41.3	-6.55	1.184	71.3	0.514	1.760	57.4	152.0	---	---	3.38	0.525	113.8	50.0	7.1	0.229
4-1110	4-1350	0.407	276.4	-42.5	-6.87	1.178	71.7	0.500	1.717	57.4	157.2	---	---	3.42	0.505	109.7	46.8	8.0	0.204
4-1110	4-1370	0.400	276.9	-43.8	-7.20	1.175	72.1	0.490	1.694	56.8	161.8	---	---	3.49	0.490	105.9	43.3	8.9	0.186
4-1110	4-1390	0.394	277.8	-45.2	-7.53	1.173	72.6	0.483	1.683	55.7	165.9	---	---	3.60	0.479	102.4	39.8	9.8	0.173
4-1110	4-1410	0.388	279.1	-46.6	-7.88	1.173	73.1	0.477	1.680	54.3	169.6	---	---	3.73	0.472	99.2	36.6	10.5	0.166
4-1110	4-1430	0.382	280.7	-48.2	-8.26	1.173	73.7	0.473	1.683	52.6	172.9	---	---	3.91	0.467	96.3	33.8	11.3	0.162
4-1110	4-1450	0.377	282.7	-49.9	-8.67	1.174	74.3	0.470	1.690	50.7	176.0	---	---	4.13	0.464	93.6	31.7	12.0	0.160
4-1110	4-1470	0.373	285.0	-51.8	-9.13	1.176	75.0	0.467	1.700	48.7	178.8	---	---	4.41	0.462	91.1	30.4	12.8	0.161
4-1110	4-1490	0.370	287.7	-53.9	-9.66	1.177	75.7	0.466	1.711	46.5	181.4	---	2.508	4.77	0.462	88.8	29.7	13.6	0.163
4-1110	4-1510	0.368	290.8	-56.2	-10.27	1.179	76.4	0.464	1.725	44.2	183.8	---	2.526	5.22	0.462	86.7	29.6	14.7	0.166
4-1110	4-1530	0.368	294.3	-58.8	-11.01	1.181	77.1	0.463	1.739	41.8	186.2	---	2.545	5.80	0.463	84.7	30.1	15.9	0.170
4-1110	4-1550	0.371	298.5	-61.9	-11.93	1.183	77.8	0.463	1.754	39.4	188.4	---	2.566	6.57	0.465	82.9	31.2	17.6	0.175
4-1110	4-1570	0.378	303.5	-65.5	-13.12	1.186	78.5	0.463	1.769	36.9	190.5	---	2.588	7.62	0.468	81.2	32.7	19.8	0.181
4-1110	4-1590	0.393	310.2	-69.9	-14.77	1.188	79.3	0.463	1.785	34.4	192.6	---	2.611	9.13	0.471	79.6	34.8	22.7	0.190
4-1110	4-1610	0.422	320.3	-75.4	-17.23	1.190	80.1	0.463	1.801	31.8	194.6	---	2.635	11.45	0.474	78.1	37.4	26.9	0.203
4-1110	4-1630	0.479	344.8	-82.2	-21.34	1.192	80.8	0.464	1.817	29.3	196.5	---	2.660	15.42	0.478	76.6	41.2	33.0	0.227
4-1110	4-1650	0.609	90.5	-83.1	-29.61	1.194	81.5	0.465	1.833	26.9	198.4	---	2.685	23.56	0.482	75.2	47.6	41.4	0.282
4-1110	4-1670	0.992	135.3	-65.0	-52.68	1.196	82.1	0.467	1.848	25.0	200.3	---	2.712	46.49	0.487	73.9	63.0	48.0	0.456
4-1110	4-1690	1.138	224.1	57.7	61.82	1.198	84.3	0.464	1.864	18.1	201.7	---	2.729	-68.15	0.491	73.2	75.8	-44.6	0.622
4-1110	4-1710	0.496	285.2	50.3	23.28	1.199	84.7	0.467	1.880	16.8	203.7	---	2.758	-29.74	0.497	71.8	60.5	-44.7	0.333
4-1110	4-1730	0.314	307.0	31.3	11.33	1.201	85.4	0.470	1.895	14.4	205.4	---	2.785	-17.93	0.502	70.7	56.9	-34.6	0.257
4-1110	4-1750	0.254	319.2	15.5	6.02	1.203	86.3	0.472	1.910	11.7	207.1	---	2.812	-12.76	0.508	69.6	57.8	-26.8	0.233
4-1110	4-1770	0.232	328.7	4.3	3.04	1.205	87.2	0.475	1.925	8.8	208.8	---	2.839	-9.91	0.514	68.6	60.2	-21.5	0.225
4-1110	4-1790	0.224	337.0	-3.1	1.12	1.206	88.1	0.478	1.940	5.9	210.5	---	2.868	-8.14	0.520	67.6	63.2	-17.7	0.223
4-1110	4-1810	0.223	344.6	-7.9	-0.23	1.208	89.1	0.481	1.954	2.9	212.1	---	2.893	-6.93	0.527	66.7	66.5	-15.1	0.224
4-1110	4-1830	0.226	351.9	-10.8	-1.25	1.209	90.1	0.484	1.968	359.8	573.7	1.015	2.922	-6.08	0.533	65.8	70.1	-13.0	0.227
4-1110	4-1850	0.231	358.7	-12.4	-2.06	1.211	91.1	0.488	1.982	356.6	575.2	1.014	2.950	-5.41	0.540	64.9	73.8	-11.5	0.232
4-1110	4-1870	0.238	5.1	-13.0	-2.72	1.212	92.2	0.493	1.996	353.3	576.8	1.013	2.979	-4.91	0.548	64.0	77.7	-10.3	0.237
4-1120	4-1240	0.595	285.2	-33.4	-5.43	1.293	64.2	0.764	3.358	60.5	120.4	---	---	2.64	0.761	137.1	55.1	2.6	0.525
4-1120	4-1260	0.552	282.0	-34.8	-5.72	1.243	64.9	0.668	2.362	64.6	130.2	---	---	2.51	0.668	131.9	54.4	2.9	0.425
4-1120	4-1280	0.524	279.9	-35.8	-5.98	1.212	65.4	0.611	2.002	67.4	138.7	---	---	2.41	0.602	126.7	53.0	3.3	0.351
4-1120	4-1300	0.505	278.7	-36.8	-6.22	1.193	66.0	0.575	1.830	69.1	145.9	---	---	2.35	0.555	121.6	51.1	3.8	0.296
4-1120	4-1320	0.490	278.1	-37.6	-6.45	1.180	66.5	0.551	1.738	69.8	152.1	---	---	2.31	0.522	116.7	48.5	4.2	0.255
4-1120	4-1340	0.477	278.2	-38.5	-6.67	1.173	67.1	0.535	1.688	69.7	157.4	---	---	2.29	0.498	112.1	45.4	4.7	0.225
4-1120	4-1360	0.467	278.7	-39.3	-6.88	1.169	67.7	0.523	1.660	68.9	161.9	---	---	2.29	0.481	107.9	42.0	5.2	0.203
4-1120	4-1380	0.456	279.6	-40.2	-7.09	1.167	68.3	0.513	1.648	67.8	165.9	---	---	2.31	0.469	104.0	38.6	5.6	0.188
4-1120	4-1400	0.447	280.8	-41.2	-7.30	1.166	69.0	0.506	1.645	66.2	169.5	---	---	2.35	0.482	100.4	35.5	6.0	0.178
4-1120	4-1420	0.438	282.3	-42.1	-7.52	1.167	69.6	0.500	1.649	64.4	172.7	---	---	2.41	0.467	97.2	32.8	6.3	0.172
4-1120	4-1440	0.429	284.0	-43.2	-7.74	1.168	70.4	0.496	1.656	62.4	175.7	---	---	2.49	0.454	94.2	30.8	6.7	0.169
4-1120	4-1460	0.420	285.9	-44.3	-7.99	1.170	71.1	0.492	1.667	60.2	178.4	---	---	2.60	0.452	91.6	29.4	7.0	0.168
4-1120	4-1480	0.412	288.0	-45.4	-8.25	1.172	71.8	0.488	1.681	57.9	180.9	---	2.501	2.73	0.452	89.1	28.6	7.3	0.169
4-1120	4-1500	0.404	290.4	-46.7	-8.54	1.174	72.6	0.485	1.695	55.4	183.3	---	2.518	2.90	0.453	86.9	28.5	7.7	0.170
4-1120	4-1520	0.396	293.0	-48.1	-8.86	1.176	73.4	0.483	1.711	53.0	185.6	---	2.538	3.11	0.455	84.8	28.9	8.2	0.172
4-1120	4-1540	0.390	295.8	-49.6	-9.24	1.179	74.2	0.481	1.727	50.4	187.7	---	2.559	3.37	0.458	83.0	29.8	8.8	0.175
4-1120	4-1560	0.384	299.0	-51.4	-9.68	1.181	75.0	0.480	1.744	47.8	189.8	---	2.581	3.71	0.460	81.2	31.1	9.5	0.178
4-1120	4-1580	0.380	302.6	-53.4	-10.23	1.184	75.8	0.478	1.762	45.2	191.8	---	2.604	4.15	0.464	79.6	32.8	10.5	0.181
4-1120	4-1600	0.378	306.6	-55.7	-10.92	1.186	76.6	0.477	1.779	42.5	193.7	---	2.628	4.75	0.468	78.1	34.8	11.8	0.185
4-1120	4-1620	0.380	311.2	-58.6	-11.84	1.188	77.4	0.477	1.796	39.8	195.6	---	2.652	5.58	0.472	76.7	37.1	13.6	0.190
4-1120	4-1640	0.387	317.0	-62.3	-13.16	1.190	78.2	0.476	1.813	37.1	197.4	---	2.677	6.80	0.476	75.3	39.8	16.2	0.196
4-1120	4-1660	0.406	324.7	-67.3	-15.23	1.193	79.1	0.476	1.830	34.4	199.2	---	2.702	8.77	0.481	74.1	42.9	20.1	0.205
4-1120	4-1680	0.452	338.4	-74.6	-18.98	1.195	79.9	0.476	1.847	31.7	201.0	---	2.727	12.43	0.486	72.9	46.8	26.6	0.224
4-1120	4-1700	0.588	45.0	-83.9	-27.97	1.197	80.7	0.477	1.864	29.1	202.8	---	2.753	21.33	0.492	71.8	53.7	37.9	0.276
4-1120	4-1720	1.225	150.0	-59.5	-67.22	1.199	81.3	0.479	1.880	27.2	204.6	---	2.781	60.49	0.497	70.6	77.9	45.8	0.569
4-1120	4-1740	0.581	279.0	51.4	27.99	1.201	82.9	0.477	1.896	22.1	206.1	---	2.801	-34.81	0.503	69.9	68.5	-45.8	0.376
4-1120	4-1760	0.303	311.3	23.5	9.29	1.202	83.7	0.479	1.912	19.6	207.8	---	2.827	-16.20	0.509	68.8	61.1	-31.4	0.255
4-1120	4-1780	0.249	324.9	3.7	3.42	1.204	84.6	0.480	1.928	16.7	209.5	---	2.853	-10.43	0.516	67.9	62.3	-22.0	0.231
4-1120	4-1800	0.236	334.1	-7.5	0.59	1.206	85.5	0.482	1.943	13.8	211.1	---	2.880	-7.69	0.522	67.0	65.1	-16.6	0.225

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1120	4-1820	0.232	342.0	-13.7	-1.09	1.207	86.5	0.484	1.958	10.7	212.7	---	2.906	-6.11	0.529	66.2	88.4	-13.2	0.225
4-1120	4-1840	0.233	349.4	-17.1	-2.21	1.209	87.5	0.486	1.973	7.6	214.3	---	2.933	-5.09	0.536	65.4	72.0	-10.9	0.228
4-1120	4-1860	0.235	356.3	-18.8	-3.02	1.211	88.6	0.489	1.987	4.4	215.9	---	2.960	-4.38	0.544	64.6	75.8	-9.3	0.231
4-1120	4-1880	0.238	3.0	-19.3	-3.64	1.212	89.6	0.492	2.002	1.1	217.4	---	2.987	-3.86	0.551	63.8	79.7	-8.1	0.236
4-1130	4-1230	0.750	287.0	-31.5	-6.00	1.332	56.6	0.868	5.207	72.7	120.2	---	---	1.54	0.830	143.1	53.0	1.2	0.635
4-1130	4-1250	0.679	284.0	-32.7	-6.19	1.261	58.1	0.743	2.647	77.2	130.5	---	---	1.42	0.704	137.6	52.3	1.3	0.502
4-1130	4-1270	0.634	282.1	-33.5	-6.36	1.218	59.2	0.673	2.067	80.3	139.3	---	---	1.33	0.618	131.8	51.0	1.5	0.409
4-1130	4-1290	0.604	281.1	-34.3	-6.50	1.192	60.2	0.629	1.830	82.0	146.6	---	---	1.26	0.559	126.1	49.1	1.7	0.341
4-1130	4-1310	0.581	280.7	-34.9	-6.63	1.176	61.1	0.601	1.713	82.6	152.7	---	---	1.21	0.517	120.5	46.6	1.9	0.291
4-1130	4-1330	0.562	280.9	-35.5	-6.75	1.167	61.9	0.580	1.651	82.4	157.9	---	---	1.17	0.488	115.3	43.6	2.0	0.254
4-1130	4-1350	0.546	281.5	-36.1	-6.86	1.162	62.7	0.565	1.619	81.5	162.4	---	---	1.15	0.469	110.4	40.4	2.2	0.228
4-1130	4-1370	0.532	282.4	-36.7	-6.96	1.159	63.5	0.554	1.605	80.1	166.3	---	---	1.14	0.455	105.9	37.1	2.4	0.210
4-1130	4-1390	0.519	283.6	-37.3	-7.07	1.159	64.3	0.544	1.602	78.4	169.7	---	---	1.14	0.447	101.8	34.1	2.5	0.197
4-1130	4-1410	0.506	285.0	-37.9	-7.17	1.160	65.2	0.536	1.606	76.4	172.8	---	---	1.14	0.442	98.2	31.6	2.6	0.189
4-1130	4-1430	0.494	286.5	-38.5	-7.27	1.161	66.0	0.529	1.615	74.2	175.6	---	---	1.16	0.440	94.9	29.6	2.8	0.184
4-1130	4-1450	0.482	288.2	-39.1	-7.37	1.163	66.8	0.523	1.628	71.9	178.2	---	---	1.19	0.439	92.0	28.2	2.9	0.182
4-1130	4-1470	0.470	290.1	-39.7	-7.48	1.166	67.7	0.518	1.643	69.4	180.6	---	2.494	1.22	0.440	89.3	27.5	3.0	0.181
4-1130	4-1490	0.459	292.1	-40.4	-7.60	1.168	68.5	0.514	1.659	66.9	182.9	---	2.511	1.27	0.441	86.9	27.4	3.1	0.181
4-1130	4-1510	0.447	294.2	-41.1	-7.72	1.171	69.4	0.509	1.677	64.3	185.1	---	2.531	1.32	0.444	84.8	27.8	3.2	0.182
4-1130	4-1530	0.436	296.5	-41.8	-7.85	1.174	70.3	0.506	1.695	61.6	187.1	---	2.552	1.40	0.447	82.8	28.7	3.4	0.184
4-1130	4-1550	0.426	298.9	-42.6	-8.00	1.176	71.1	0.503	1.713	58.9	189.1	---	2.575	1.49	0.451	81.0	29.9	3.6	0.185
4-1130	4-1570	0.416	301.5	-43.4	-8.17	1.179	72.0	0.500	1.732	56.2	191.0	---	2.598	1.61	0.455	79.3	31.5	3.8	0.188
4-1130	4-1590	0.406	304.3	-44.3	-8.37	1.182	72.9	0.497	1.751	53.4	192.9	---	2.622	1.75	0.459	77.8	33.5	4.1	0.190
4-1130	4-1610	0.397	307.3	-45.3	-8.61	1.184	73.7	0.495	1.770	50.7	194.7	---	2.647	1.94	0.464	76.4	35.6	4.6	0.192
4-1130	4-1630	0.388	310.6	-46.4	-8.91	1.187	74.6	0.493	1.789	47.9	196.5	---	2.671	2.19	0.469	75.1	38.0	5.1	0.195
4-1130	4-1650	0.381	314.1	-47.8	-9.30	1.189	75.5	0.492	1.807	45.1	198.3	---	2.696	2.53	0.474	73.8	40.6	5.8	0.197
4-1130	4-1670	0.376	318.1	-49.6	-9.83	1.191	76.4	0.491	1.825	42.2	200.0	---	2.721	3.01	0.480	72.7	43.4	6.9	0.200
4-1130	4-1690	0.374	322.7	-51.9	-10.62	1.194	77.3	0.490	1.843	39.4	201.7	---	2.746	3.78	0.485	71.6	46.4	8.5	0.204
4-1130	4-1710	0.379	328.4	-55.6	-11.93	1.196	78.2	0.489	1.861	36.5	203.4	---	2.771	5.02	0.491	70.6	49.6	11.2	0.209
4-1130	4-1730	0.403	336.9	-62.0	-14.63	1.198	79.1	0.489	1.879	33.6	205.1	---	2.796	7.67	0.497	69.6	53.2	16.6	0.218
4-1130	4-1750	0.522	2.9	-76.8	-23.34	1.200	80.0	0.489	1.896	30.8	206.8	---	2.822	18.34	0.504	68.7	59.5	30.8	0.258
4-1130	4-1770	0.956	249.4	52.4	50.16	1.202	81.2	0.487	1.912	27.0	208.4	---	2.844	-57.20	0.510	67.9	86.1	-46.1	0.552
4-1130	4-1790	0.282	321.3	7.0	4.87	1.204	82.0	0.489	1.929	24.5	210.0	---	2.871	-11.96	0.517	67.0	64.7	-24.0	0.243
4-1130	4-1810	0.258	333.8	-14.1	-0.65	1.205	83.0	0.489	1.945	21.5	211.7	---	2.896	-6.49	0.524	66.2	66.8	-13.8	0.227
4-1130	4-1830	0.256	341.8	-21.7	-2.74	1.207	83.9	0.490	1.961	18.5	213.3	---	2.922	-4.45	0.531	65.5	70.2	-9.5	0.227
4-1130	4-1850	0.255	348.7	-25.0	-3.84	1.209	85.0	0.492	1.976	15.3	214.9	---	2.947	-3.40	0.539	64.8	73.9	-7.2	0.229
4-1130	4-1870	0.254	355.1	-26.3	-4.53	1.210	86.0	0.493	1.991	12.1	216.5	---	2.973	-2.76	0.546	64.1	77.7	-5.8	0.233
4-1130	4-1890	0.253	1.4	-26.4	-5.01	1.212	87.1	0.495	2.006	8.8	218.0	---	2.999	-2.93	0.554	63.4	81.7	-4.9	0.237
4-1140	4-1240	0.848	286.5	-31.0	-7.18	1.294	49.7	0.841	3.431	90.7	131.7	---	---	-0.06	0.765	144.9	50.0	-0.0	0.616
4-1140	4-1260	0.774	284.8	-31.8	-7.17	1.231	51.7	0.751	2.214	93.9	140.6	---	---	-0.06	0.646	138.7	48.7	-0.0	0.490
4-1140	4-1280	0.725	284.0	-32.4	-7.16	1.194	53.3	0.698	1.849	95.5	147.9	---	---	-0.05	0.567	132.2	48.9	-0.1	0.403
4-1140	4-1300	0.690	283.8	-32.8	-7.16	1.173	54.7	0.663	1.690	95.9	153.9	---	---	-0.05	0.513	125.8	44.5	-0.1	0.340
4-1140	4-1320	0.662	284.1	-33.3	-7.15	1.160	55.9	0.638	1.611	95.5	158.8	---	---	-0.05	0.477	119.6	41.6	-0.1	0.294
4-1140	4-1340	0.640	284.8	-33.7	-7.15	1.154	57.1	0.619	1.573	94.3	163.1	---	---	-0.04	0.452	113.9	38.6	-0.1	0.262
4-1140	4-1360	0.620	285.8	-34.0	-7.14	1.151	58.1	0.604	1.556	92.7	166.8	---	---	-0.04	0.437	108.6	35.5	-0.1	0.239
4-1140	4-1380	0.603	287.0	-34.4	-7.14	1.150	59.2	0.592	1.552	90.8	170.0	---	---	-0.04	0.428	103.8	32.7	-0.1	0.223
4-1140	4-1400	0.586	288.4	-34.7	-7.14	1.151	60.2	0.581	1.557	88.6	173.0	---	---	-0.04	0.423	99.6	30.3	-0.1	0.212
4-1140	4-1420	0.570	289.8	-35.0	-7.13	1.153	61.2	0.572	1.567	86.2	175.6	---	---	-0.04	0.421	95.8	28.4	-0.1	0.205
4-1140	4-1440	0.555	291.4	-35.3	-7.13	1.155	62.2	0.563	1.581	83.7	178.1	---	---	-0.04	0.421	92.5	27.1	-0.1	0.201
4-1140	4-1460	0.540	293.1	-35.6	-7.13	1.158	63.2	0.556	1.598	81.1	180.4	---	2.488	-0.04	0.423	89.5	26.5	-0.1	0.199
4-1140	4-1480	0.526	294.9	-35.9	-7.12	1.161	64.2	0.549	1.616	78.4	182.6	---	2.504	-0.04	0.425	86.9	26.4	-0.1	0.198
4-1140	4-1500	0.512	296.8	-36.2	-7.12	1.164	65.1	0.543	1.636	75.7	184.6	---	2.524	-0.04	0.429	84.5	26.8	-0.1	0.198
4-1140	4-1520	0.498	298.8	-36.5	-7.11	1.168	66.1	0.538	1.656	72.9	186.6	---	2.546	-0.04	0.433	82.4	27.7	-0.1	0.198
4-1140	4-1540	0.484	300.8	-36.8	-7.11	1.171	67.0	0.533	1.676	70.1	188.5	---	2.569	-0.05	0.438	80.5	28.9	-0.1	0.199
4-1140	4-1560	0.471	302.9	-37.0	-7.11	1.174	68.0	0.528	1.697	67.3	190.4	---	2.593	-0.05	0.443	78.8	30.5	-0.1	0.200
4-1140	4-1580	0.458	305.1	-37.3	-7.10	1.177	68.9	0.524	1.718	64.4	192.2	---	2.618	-0.05	0.448	77.3	32.4	-0.1	0.202
4-1140	4-1600	0.445	307.5	-37.5	-7.09	1.180	69.9	0.520	1.739	61.6	193.9	---	2.643	-0.06	0.454	75.8	34.5	-0.1	0.203
4-1140	4-1620	0.432	309.9	-37.7	-7.09	1.183	70.8	0.517	1.759	58.7	195.6	---	2.668	-0.06	0.459	74.5	36.8	-0.1	0.205
4-1140	4-1640	0.419	312.4	-37.9	-7.08	1.185	71.7	0.514	1.779	55.8	197.3	---	2.693	-0.07	0.465	73.3	39.4	-0.1	0.206
4-1140	4-1660	0.406	315.1	-38.0	-7.07	1.188	72.7	0.511	1.799	53.0	199.0	---	2.718	-0.07	0.471	72.1	42.1	-0.2	0.208
4-1140	4-1680	0.394	317.9	-38.1	-7.06	1.191	73.6	0.508	1.819	50.1	200.7	---	2.743	-0.08	0.477	71.1	44.9	-0.2	0.210
4-1140	4-1700	0.382	320.8	-38.1	-7.04	1.193	74.6	0.506	1.838	47.2	202.3	---	2.768	-0.10	0.484	70.1	47.9	-0.2	0.212
4-1140	4-1720	0.370	323.9	-38.1	-7.02	1.195	75.5	0.504	1.857	44.2	204.0	---	2.793	-0.12	0.490	69.2	51.0	-0.3	0.214
4-1140	4-1740	0.359	327.1	-38.0	-6.98	1.197	76.5	0.503	1.875	41.3	205.6	---	2.818	-0.15	0.497	68.3	54.3	-0.3	0.216
4-1140	4-1760	0.347	330.5	-37.7	-6.92	1.200	77.4	0.501	1.893	38.3	207.3	---	2.842	-0.22	0.504	67.5	57.6	-0.5	0.218
4-1140	4-1780	0.335	334.0	-37.0	-6.77	1.202	78.4	0.500	1.911	35.3	208.9	---	2.867	-0.37	0.511	66.7	61.1	-0.8	0.221
4-1140	4-1800	0.318	336.6	-33.5	-5.78	1.204	79.4	0.500	1.928	32.3	210.5	---	2.891	-1.35	0.518	66.0	64.6	-2.9	0.224
4-1140	4-1820	0.324	343.7	-40.1	-7.93	1.205	80.4	0.499	1.945	29.2	212.1	---	2.916	0.80	0.526	65.3	68.3	1.7	0.227
4-1140	4-1840	0.311	347.4	-38.0	-7.44	1.207	81.4	0.499	1.961	26.1	213.7	---	2.940	0.31	0.533	64.6	72.0	0.6	0.230
4-1140	4-1860	0.302	351.9	-36.9	-7.32	1.209	82.4	0.499	1.977	22.9	215.4	---	2.965	0.19	0.541	64.0	75.9	0.4	0.233
4-1140	4-1880	0.293	356.7	-35.8	-7.26	1.211	83.5	0.500	1.993	19.6	216.9	---	2.989	0.14	0.549	63.4	79.8	0.3	0.237
4-1140	4-1900	0.286	1.8	-34.5	-7.23	1.212	84.6	0.501	2.009	16.3	218.5	---	3.014	0.11	0.557	62.9	83.9	0.2	0.241
4-1150	4-1250	0.955	287.7	-30.3	-8.81	1.261	42.3	0.848	2.645	108.4	142.8	---	---	-2.16	0.704	147.6	46.5	-1.3	0.612
4-1150	4-1270	0.875	287.0	-30.8	-8.48	1.204	45.0	0.782	1.930	109.6	149.7	---	---	-1.89	0.590	140.6	44.7	-1.4	0.492
4-1150	4-1290	0.821	287.1	-31.2	-8.22	1.172	47.2	0.740	1.685	109.7	155.4	---	---	-1.70	0.515	133.2	42.5	-1.6	0.408
4-1150	4-1310	0.780	287.5	-31.5	-8.01	1.155	49.0	0.709	1.576	108.8	160.0	---	---	-1.56	0.466	126.0	39.9	-1.7	0.349
4-1150	4-1330	0.748	288.4	-31.7	-7.83	1.145	50.6	0.685	1.525	107.3	164.0	---	---	-1.46	0.434	119.0	37.0	-1.8	0.307
4-1150	4-1350	0.722	289.5	-31.9	-7.68	1.141	52.0	0.666	1.503	105.4	167.4	---	---	-1.38	0.414	112.5	34.1	-1.9	0.278
4-1150	4-1370	0.698	290.7	-32.1	-7.54	1.140	53.4	0.650	1.497	103.2	170.4	---	---	-1.32	0.403	106.7	31.4	-2.0	0.257
4-1150	4-1390	0.677	292.1	-32.2	-7.42	1.141	54.7	0.636	1.502	100.8	173.2	---	---	-1.28	0.398	101.6	29.2	-2.1	0.243

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1150	4-1410	0.657	293.6	-32.4	-7.30	1.143	55.9	0.623	1.513	98.2	175.7	---	---	-1.25	0.397	97.1	27.4	-2.1	0.233
4-1150	4-1430	0.638	295.2	-32.5	-7.19	1.146	57.1	0.612	1.529	95.5	178.0	---	---	-1.29	0.398	93.2	26.2	-2.2	0.226
4-1150	4-1450	0.621	296.8	-32.5	-7.08	1.150	58.2	0.602	1.547	92.8	180.2	---	2.479	-1.22	0.401	89.8	25.6	-2.2	0.222
4-1150	4-1470	0.603	298.5	-32.6	-6.98	1.153	59.4	0.593	1.568	89.9	182.2	---	2.496	-1.22	0.405	86.8	25.5	-2.2	0.220
4-1150	4-1490	0.586	300.3	-32.6	-6.88	1.157	60.5	0.584	1.589	87.1	184.2	---	2.517	-1.23	0.410	84.2	25.9	-2.3	0.218
4-1150	4-1510	0.570	302.0	-32.7	-6.77	1.161	61.6	0.576	1.611	84.2	186.0	---	2.540	-1.25	0.416	81.9	26.8	-2.4	0.217
4-1150	4-1530	0.554	303.8	-32.6	-6.66	1.164	62.6	0.569	1.634	81.3	187.9	---	2.564	-1.27	0.422	79.9	28.0	-2.4	0.217
4-1150	4-1550	0.538	305.7	-32.6	-6.55	1.168	63.7	0.563	1.656	78.3	189.6	---	2.588	-1.31	0.428	78.0	29.6	-2.5	0.217
4-1150	4-1570	0.522	307.6	-32.5	-6.43	1.171	64.7	0.557	1.679	75.4	191.4	---	2.614	-1.36	0.434	76.4	31.4	-2.6	0.218
4-1150	4-1590	0.507	309.5	-32.4	-6.31	1.175	65.7	0.551	1.702	72.5	193.1	---	2.639	-1.42	0.441	75.0	33.5	-2.8	0.219
4-1150	4-1610	0.491	311.5	-32.2	-6.17	1.178	66.7	0.546	1.724	69.6	194.7	---	2.665	-1.49	0.447	73.6	35.8	-2.9	0.219
4-1150	4-1630	0.476	313.6	-31.9	-6.01	1.181	67.8	0.541	1.746	66.6	196.4	---	2.691	-1.59	0.454	72.4	38.3	-3.1	0.220
4-1150	4-1650	0.461	315.7	-31.6	-5.84	1.184	68.8	0.537	1.768	63.7	198.0	---	2.716	-1.70	0.461	71.3	41.0	-3.4	0.221
4-1150	4-1670	0.446	317.8	-31.1	-5.63	1.187	69.8	0.533	1.789	60.7	199.6	---	2.742	-1.85	0.468	70.2	43.8	-3.7	0.223
4-1150	4-1690	0.431	320.0	-30.5	-5.38	1.190	70.7	0.529	1.810	57.8	201.2	---	2.767	-2.05	0.475	69.3	46.8	-4.1	0.224
4-1150	4-1710	0.416	322.1	-29.6	-5.08	1.192	71.7	0.526	1.830	54.8	202.8	---	2.792	-2.30	0.482	68.4	49.9	-4.6	0.225
4-1150	4-1730	0.401	324.3	-28.4	-4.68	1.195	72.7	0.523	1.850	51.9	204.4	---	2.817	-2.65	0.489	67.6	53.1	-5.3	0.227
4-1150	4-1750	0.385	326.5	-26.7	-4.13	1.197	73.7	0.520	1.869	48.9	206.1	---	2.842	-3.14	0.496	66.8	56.4	-6.3	0.229
4-1150	4-1770	0.369	328.4	-24.0	-3.32	1.199	74.7	0.518	1.888	45.9	207.7	---	2.866	-3.90	0.504	66.1	59.9	-7.8	0.232
4-1150	4-1790	0.352	329.7	-19.3	-1.98	1.201	75.7	0.515	1.907	42.9	209.3	---	2.890	-5.19	0.512	65.4	63.6	-10.3	0.236
4-1150	4-1810	0.337	329.2	-9.8	0.74	1.204	76.7	0.514	1.925	39.8	210.9	---	2.914	-7.88	0.519	64.8	67.7	-15.2	0.245
4-1150	4-1830	0.368	319.9	17.3	9.31	1.205	77.7	0.512	1.943	36.8	212.5	---	2.938	-18.38	0.527	64.2	74.2	-28.4	0.281
4-1150	4-1850	1.284	176.1	-69.8	-70.48	1.207	79.1	0.509	1.960	32.7	214.1	---	2.959	63.48	0.535	63.7	104.5	44.1	0.616
4-1150	4-1870	0.475	8.3	-63.0	-19.67	1.209	79.9	0.509	1.977	30.1	215.7	---	2.985	12.70	0.543	63.1	80.5	23.3	0.269
4-1150	4-1890	0.387	4.2	-51.2	-13.71	1.211	81.0	0.509	1.994	26.9	217.3	---	3.009	6.80	0.552	62.6	82.8	13.2	0.253
4-1150	4-1910	0.352	5.8	-45.3	-11.50	1.213	82.1	0.509	2.010	23.6	218.9	---	3.033	4.64	0.560	62.1	86.6	9.1	0.252
4-1160	4-1260	1.070	290.0	-29.6	-11.21	1.233	34.7	0.878	2.221	124.6	152.5	---	---	-5.07	0.648	151.4	42.9	-2.5	0.625
4-1160	4-1280	0.982	290.3	-29.8	-10.31	1.181	38.1	0.828	1.737	123.9	157.4	---	---	-4.29	0.535	143.5	40.9	-2.7	0.506
4-1160	4-1300	0.921	291.0	-30.0	-9.65	1.153	40.8	0.791	1.562	122.5	161.5	---	---	-3.76	0.463	135.1	38.5	-2.9	0.426
4-1160	4-1320	0.875	292.0	-30.1	-9.14	1.138	43.0	0.762	1.485	120.5	165.0	---	---	-3.38	0.417	126.8	35.8	-3.1	0.369
4-1160	4-1340	0.838	293.3	-30.2	-8.73	1.132	45.0	0.738	1.452	118.2	168.1	---	---	-3.09	0.390	118.7	33.1	-3.2	0.329
4-1160	4-1360	0.807	294.6	-30.2	-8.38	1.130	46.8	0.718	1.442	115.7	170.9	---	---	-2.88	0.374	111.4	30.6	-3.3	0.301
4-1160	4-1380	0.779	296.1	-30.2	-8.08	1.130	48.4	0.700	1.445	113.8	173.4	---	---	-2.72	0.368	104.9	28.5	-3.4	0.282
4-1160	4-1400	0.754	297.7	-30.2	-7.81	1.133	50.0	0.684	1.456	110.2	175.7	---	---	-2.60	0.366	99.2	26.8	-3.5	0.268
4-1160	4-1420	0.731	299.3	-30.1	-7.57	1.136	51.4	0.669	1.472	107.3	177.8	---	---	-2.51	0.369	94.4	25.6	-3.6	0.258
4-1160	4-1440	0.710	300.9	-30.0	-7.34	1.140	52.8	0.656	1.492	104.4	179.9	---	---	-2.44	0.373	90.3	25.1	-3.6	0.251
4-1160	4-1460	0.689	302.5	-29.9	-7.13	1.144	54.1	0.644	1.514	101.4	181.8	---	2.488	-2.40	0.379	86.8	25.0	-3.7	0.247
4-1160	4-1480	0.670	304.2	-29.8	-6.93	1.148	55.4	0.633	1.537	98.4	183.6	---	2.510	-2.37	0.386	83.8	25.4	-3.7	0.244
4-1160	4-1500	0.651	305.9	-29.6	-6.73	1.153	56.6	0.623	1.561	95.4	185.4	---	2.533	-2.37	0.393	81.2	26.2	-3.8	0.241
4-1160	4-1520	0.632	307.5	-29.4	-6.53	1.157	57.8	0.613	1.586	92.4	187.1	---	2.558	-2.37	0.401	79.0	27.4	-3.9	0.240
4-1160	4-1540	0.614	309.3	-29.2	-6.34	1.161	59.0	0.604	1.610	89.4	188.8	---	2.583	-2.40	0.409	77.0	28.9	-4.0	0.239
4-1160	4-1560	0.596	311.0	-29.0	-6.13	1.165	60.2	0.596	1.635	86.4	190.5	---	2.610	-2.44	0.417	75.3	30.7	-4.1	0.238
4-1160	4-1580	0.578	312.7	-28.6	-5.93	1.169	61.3	0.589	1.660	83.4	192.1	---	2.638	-2.50	0.425	73.8	32.8	-4.3	0.238
4-1160	4-1600	0.561	314.4	-28.3	-5.71	1.173	62.4	0.581	1.684	80.4	193.7	---	2.663	-2.58	0.432	72.4	35.0	-4.5	0.238
4-1160	4-1620	0.544	316.2	-27.8	-5.47	1.176	63.5	0.575	1.708	77.4	195.3	---	2.689	-2.68	0.440	71.2	37.5	-4.7	0.238
4-1160	4-1640	0.527	318.0	-27.3	-5.22	1.180	64.6	0.569	1.731	74.4	196.9	---	2.716	-2.81	0.448	70.1	40.1	-5.0	0.238
4-1160	4-1660	0.510	319.8	-26.7	-4.94	1.183	65.7	0.563	1.754	71.4	198.5	---	2.742	-2.97	0.456	69.1	42.9	-5.3	0.239
4-1160	4-1680	0.493	321.6	-25.9	-4.63	1.186	66.7	0.558	1.777	68.4	200.0	---	2.768	-3.17	0.464	68.1	45.8	-5.7	0.239
4-1160	4-1700	0.477	323.4	-24.9	-4.26	1.189	67.8	0.553	1.799	65.4	201.6	---	2.793	-3.42	0.471	67.3	48.9	-6.2	0.240
4-1160	4-1720	0.460	325.1	-23.8	-3.83	1.192	68.8	0.548	1.820	62.4	203.2	---	2.818	-3.74	0.479	66.5	52.0	-6.8	0.241
4-1160	4-1740	0.443	326.9	-22.2	-3.31	1.194	69.9	0.544	1.841	59.4	204.7	---	2.843	-4.16	0.487	65.8	55.3	-7.6	0.243
4-1160	4-1760	0.427	328.5	-20.2	-2.64	1.197	70.9	0.540	1.862	56.4	206.3	---	2.868	-4.72	0.495	65.1	58.7	-8.7	0.244
4-1160	4-1780	0.410	330.0	-17.4	-1.75	1.199	71.9	0.536	1.882	53.4	207.9	---	2.892	-5.51	0.503	64.5	62.3	-10.2	0.247
4-1160	4-1800	0.394	331.0	-13.4	-0.50	1.202	73.0	0.533	1.902	50.3	209.5	---	2.916	-6.67	0.512	63.9	66.0	-12.3	0.251
4-1160	4-1820	0.380	331.2	-7.1	1.46	1.204	74.0	0.530	1.921	47.3	211.1	---	2.939	-8.52	0.520	63.4	70.0	-15.5	0.257
4-1160	4-1840	0.376	329.1	4.1	4.98	1.206	75.1	0.528	1.940	44.2	212.7	---	2.963	-11.94	0.528	62.9	74.7	-21.1	0.271
4-1160	4-1860	0.430	319.3	25.2	13.25	1.208	76.1	0.526	1.958	41.2	214.3	---	2.987	-20.12	0.537	62.4	81.9	-31.6	0.312
4-1160	4-1880	0.950	268.7	45.1	48.59	1.210	76.9	0.525	1.976	38.8	215.9	---	3.013	-55.35	0.545	61.8	106.3	-44.4	0.564
4-1160	4-1900	0.848	61.0	-84.0	-42.65	1.211	78.7	0.519	1.993	33.5	217.5	---	3.028	35.98	0.554	61.7	99.4	42.6	0.423
4-1160	4-1920	0.525	17.9	-63.7	-22.67	1.213	79.7	0.519	2.010	30.6	219.1	---	3.053	10.11	0.562	61.3	92.3	27.2	0.300
4-1170	4-1290	1.092	294.3	-28.8	-13.07	1.162	30.9	0.879	1.606	136.7	163.6	---	---	-7.64	0.486	147.7	37.6	-3.7	0.534
4-1170	4-1310	1.024	295.5	-28.7	-11.70	1.136	34.1	0.846	1.469	134.0	166.4	---	---	-6.45	0.413	138.2	35.2	-3.9	0.454
4-1170	4-1330	0.972	297.0	-28.7	-10.71	1.124	36.9	0.818	1.412	131.2	168.9	---	---	-5.64	0.369	128.4	32.7	-4.1	0.399
4-1170	4-1350	0.929	298.5	-28.6	-9.94	1.119	39.3	0.793	1.391	128.2	171.3	---	---	-5.05	0.344	119.0	30.4	-4.2	0.359
4-1170	4-1370	0.894	300.1	-28.4	-9.33	1.119	41.4	0.771	1.389	125.2	173.5	---	---	-4.62	0.332	110.4	28.3	-4.3	0.332
4-1170	4-1390	0.863	301.8	-28.3	-8.81	1.121	43.3	0.751	1.398	122.2	175.6	---	---	-4.30	0.330	103.0	26.7	-4.4	0.312
4-1170	4-1410	0.834	303.4	-28.1	-8.36	1.125	45.1	0.734	1.414	119.1	177.6	---	---	-4.05	0.333	96.7	25.6	-4.5	0.298
4-1170	4-1430	0.808	305.1	-27.9	-7.97	1.129	46.8	0.717	1.434	115.9	179.4	---	---	-3.85	0.339	91.4	24.9	-4.5	0.287
4-1170	4-1450	0.784	306.8	-27.6	-7.61	1.134	48.3	0.702	1.457	112.8	181.2	---	2.480	-3.71	0.347	87.1	24.8	-4.6	0.280
4-1170	4-1470	0.761	308.4	-27.4	-7.28	1.139	49.8	0.688	1.481	109.7	183.0	---	2.501	-3.60	0.356	83.5	25.2	-4.6	0.274
4-1170	4-1490	0.739	310.0	-27.1	-6.97	1.144	51.3	0.676	1.507	106.5	184.7	---	2.525	-3.52	0.366	80.5	25.9	-4.7	0.270
4-1170	4-1510	0.718	311.7	-26.8	-6.68	1.149	52.7	0.664	1.533	103.4	186.3	---	2.551	-3.48	0.376	77.9	27.1	-4.8	0.267
4-1170	4-1530	0.697	313.3	-26.4	-6.39	1.154	54.0	0.652	1.560	100.3	187.9	---	2.577	-3.45	0.386	75.8	28.5	-4.9	0.265
4-1170	4-1550	0.677	314.9	-26.0	-6.11	1.158	55.3	0.642	1.586	97.2	189.5	---	2.605	-3.45	0.395	73.9	30.3	-5.0	0.263
4-1170	4-1570	0.657	316.5	-25.6	-5.83	1.163	56.6	0.632	1.613	94.1	191.1	---	2.632	-3.47	0.405	72.3	32.3	-5.1	0.261
4-1170	4-1590	0.638	318.1	-25.2	-5.54	1.167	57.8	0.623	1.639	91.1	192.6	---	2.660	-3.52	0.414	70.9	34.5	-5.3	0.260
4-1170	4-1610	0.619	319.7	-24.6	-5.25	1.171	59.0	0.614	1.665	88.0	194.1	---	2.688	-3.59	0.424	69.6	36.9	-5.5	0.259
4-1170	4-1630	0.600	321.3	-24.0	-4.94	1.175	60.2	0.606	1.690	84.9	195.7	---	2.715	-3.69	0.433	68.5	39.4	-5.8	0.258
4-1170	4-1650	0.582	322.9	-23.3	-4.62	1.178	61.3	0.599	1.715	81.9	197.2	---	2.742	-3.81	0.441	67.5	42.2	-6.0	0.258
4-1170	4-1670	0.564	324.5	-22.6	-4.27	1.182	62.5	0.592	1.739	78.9	198.7	---	2.769	-3.98	0.450	66.6	45.0	-6.4	0.258

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1200	4-1380	1.213	315.6	-23.1	-18.46	1.095	21.1	0.936	1.274	154.3	177.0	---	---	-15.83	0.206	127.2	28.8	-5.3	0.482
4-1200	4-1400	1.164	317.6	-22.5	-15.45	1.097	24.2	0.916	1.280	150.3	178.0	---	---	-13.10	0.199	110.9	27.8	-5.4	0.449
4-1200	4-1420	1.122	319.5	-21.9	-13.33	1.101	27.0	0.897	1.295	146.6	179.1	---	---	-11.26	0.207	97.4	27.3	-5.4	0.425
4-1200	4-1440	1.085	321.4	-21.3	-11.74	1.106	29.5	0.878	1.316	142.9	180.4	---	2.471	-9.95	0.223	87.3	27.3	-5.4	0.406
4-1200	4-1460	1.050	323.2	-20.7	-10.48	1.113	31.9	0.859	1.341	139.3	181.7	---	2.493	-8.99	0.242	80.0	27.7	-5.5	0.392
4-1200	4-1480	1.018	324.9	-20.1	-9.44	1.119	34.1	0.841	1.368	135.9	183.0	---	2.519	-8.25	0.262	74.8	28.4	-5.5	0.380
4-1200	4-1500	0.988	326.5	-19.5	-8.57	1.126	36.1	0.824	1.396	132.4	184.3	---	2.547	-7.68	0.282	70.9	29.5	-5.5	0.370
4-1200	4-1520	0.960	328.1	-18.9	-7.81	1.132	38.0	0.808	1.426	129.1	185.6	---	2.578	-7.24	0.300	67.9	30.9	-5.6	0.362
4-1200	4-1540	0.932	329.6	-18.3	-7.13	1.139	39.9	0.792	1.456	125.7	187.0	---	2.609	-6.89	0.318	65.7	32.5	-5.6	0.356
4-1200	4-1560	0.906	331.1	-17.7	-6.52	1.145	41.6	0.778	1.486	122.5	188.3	---	2.641	-6.62	0.335	63.9	34.4	-5.7	0.350
4-1200	4-1580	0.881	332.6	-17.0	-5.95	1.151	43.3	0.763	1.516	119.2	189.7	---	2.673	-6.41	0.351	62.5	36.6	-5.8	0.344
4-1200	4-1600	0.856	334.0	-16.3	-5.42	1.156	44.9	0.750	1.546	116.0	191.1	---	2.705	-6.25	0.366	61.4	38.9	-5.9	0.340
4-1200	4-1620	0.832	335.3	-15.6	-4.91	1.161	46.4	0.737	1.575	112.8	192.5	---	2.736	-6.14	0.380	60.4	41.3	-6.0	0.336
4-1200	4-1640	0.809	336.7	-14.8	-4.42	1.166	47.9	0.724	1.604	109.7	193.9	---	2.766	-6.07	0.394	59.7	43.9	-6.2	0.332
4-1200	4-1660	0.786	338.0	-14.0	-3.94	1.171	49.4	0.713	1.633	106.5	195.3	---	2.798	-6.04	0.407	59.0	46.7	-6.4	0.329
4-1200	4-1680	0.763	339.3	-13.2	-3.46	1.175	50.8	0.701	1.661	103.4	196.7	---	2.826	-6.05	0.419	58.5	49.5	-6.6	0.326
4-1200	4-1700	0.741	340.6	-12.3	-2.98	1.180	52.2	0.690	1.689	100.3	198.1	---	2.854	-6.09	0.431	58.0	52.5	-6.9	0.323
4-1200	4-1720	0.719	341.8	-11.3	-2.48	1.184	53.6	0.680	1.716	97.2	199.6	---	2.882	-6.18	0.443	57.6	55.6	-7.2	0.321
4-1200	4-1740	0.698	343.0	-10.2	-1.96	1.187	54.9	0.670	1.742	94.1	201.0	---	2.910	-6.31	0.454	57.3	58.8	-7.6	0.319
4-1200	4-1760	0.677	344.2	-9.0	-1.42	1.191	56.2	0.661	1.768	91.0	202.5	---	2.936	-6.49	0.466	57.0	62.1	-8.0	0.318
4-1200	4-1780	0.656	345.3	-7.7	-0.84	1.194	57.5	0.652	1.793	87.9	204.0	---	2.962	-6.72	0.476	56.8	65.5	-8.5	0.317
4-1200	4-1800	0.635	346.4	-6.2	-0.21	1.197	58.8	0.643	1.818	84.8	205.5	---	2.987	-7.03	0.487	56.6	69.0	-9.1	0.316
4-1200	4-1820	0.615	347.4	-4.5	0.50	1.200	60.1	0.635	1.842	81.7	207.1	---	3.011	-7.41	0.498	56.4	72.6	-9.8	0.315
4-1200	4-1840	0.595	348.3	-2.5	1.30	1.203	61.3	0.627	1.866	78.6	208.7	---	3.035	-7.90	0.508	56.3	76.4	-10.6	0.316
4-1200	4-1860	0.576	349.1	-0.2	2.22	1.206	62.6	0.619	1.889	75.4	210.2	---	3.058	-8.52	0.519	56.2	80.2	-11.6	0.317
4-1200	4-1880	0.558	349.7	2.6	3.33	1.209	63.8	0.612	1.911	72.3	211.8	---	3.081	-9.33	0.529	56.1	84.2	-12.9	0.318
4-1200	4-1900	0.542	350.0	6.1	4.69	1.211	65.1	0.605	1.933	69.1	213.5	---	3.103	-10.41	0.539	56.0	88.3	-14.6	0.321
4-1200	4-1920	0.529	349.7	10.4	6.44	1.213	66.3	0.598	1.955	65.8	215.1	---	3.124	-11.88	0.550	56.0	92.7	-16.7	0.326
4-1200	4-1940	0.522	348.5	16.1	8.82	1.216	67.6	0.592	1.976	62.6	216.8	---	3.148	-13.97	0.560	56.0	97.4	-19.6	0.335
4-1200	4-1960	0.529	345.5	23.4	12.27	1.218	68.8	0.586	1.996	59.3	218.4	---	3.167	-17.14	0.570	56.0	102.7	-23.5	0.349
4-1210	4-1350	1.446	316.7	-22.4	-59.48	1.110	8.5	0.990	1.323	169.5	177.4	---	---	-57.00	0.285	166.0	32.5	-5.1	0.645
4-1210	4-1370	1.370	319.2	-21.7	-37.04	1.096	11.6	0.981	1.271	166.0	177.6	---	---	-34.86	0.209	154.0	31.1	-5.2	0.578
4-1210	4-1390	1.308	321.4	-20.9	-26.35	1.092	15.0	0.967	1.256	161.9	178.0	---	---	-24.47	0.167	135.3	30.0	-5.3	0.530
4-1210	4-1410	1.256	323.5	-20.2	-20.42	1.093	18.3	0.951	1.259	157.9	178.7	---	---	-18.84	0.154	113.9	29.3	-5.3	0.495
4-1210	4-1430	1.210	325.5	-19.5	-16.68	1.097	21.3	0.935	1.273	154.0	179.6	---	---	-15.40	0.164	95.8	29.0	-5.3	0.468
4-1210	4-1450	1.170	327.4	-18.8	-14.09	1.103	24.1	0.917	1.294	150.2	180.6	---	2.480	-13.11	0.184	83.1	29.2	-5.3	0.447
4-1210	4-1470	1.133	329.2	-18.2	-12.17	1.109	26.7	0.900	1.318	146.6	181.7	---	2.504	-11.49	0.208	74.8	29.7	-5.3	0.430
4-1210	4-1490	1.098	331.0	-17.5	-10.67	1.116	29.0	0.883	1.345	143.0	182.9	---	2.532	-10.31	0.232	69.2	30.6	-5.3	0.417
4-1210	4-1510	1.066	332.6	-16.8	-9.46	1.123	31.2	0.866	1.373	139.5	184.1	---	2.563	-9.41	0.256	65.4	31.8	-5.4	0.406
4-1210	4-1530	1.036	334.2	-16.1	-8.44	1.130	33.3	0.850	1.403	136.1	185.4	---	2.595	-8.71	0.278	62.6	33.3	-5.4	0.396
4-1210	4-1550	1.007	335.7	-15.4	-7.56	1.136	35.3	0.834	1.433	132.7	186.7	---	2.629	-8.17	0.298	60.6	35.1	-5.5	0.388
4-1210	4-1570	0.979	337.2	-14.7	-6.79	1.143	37.2	0.819	1.464	129.4	188.0	---	2.662	-7.73	0.318	59.1	37.1	-5.5	0.381
4-1210	4-1590	0.952	338.6	-14.0	-6.09	1.149	39.0	0.804	1.494	126.2	189.3	---	2.695	-7.39	0.335	57.9	39.2	-5.6	0.375
4-1210	4-1610	0.926	339.9	-13.2	-5.45	1.155	40.7	0.790	1.524	122.9	190.6	---	2.728	-7.13	0.352	57.0	41.6	-5.7	0.369
4-1210	4-1630	0.901	341.3	-12.5	-4.85	1.160	42.4	0.776	1.555	119.7	191.9	---	2.761	-8.92	0.368	56.3	44.1	-5.8	0.364
4-1210	4-1650	0.876	342.6	-11.7	-4.29	1.165	44.0	0.763	1.584	116.5	193.3	---	2.792	-8.77	0.383	55.7	46.7	-6.0	0.359
4-1210	4-1670	0.852	343.9	-10.8	-3.74	1.170	45.6	0.750	1.614	113.4	194.7	---	2.824	-8.67	0.397	55.3	49.5	-6.1	0.355
4-1210	4-1690	0.828	345.1	-10.0	-3.21	1.175	47.1	0.738	1.642	110.3	196.1	---	2.854	-8.61	0.411	54.9	52.4	-6.3	0.351
4-1210	4-1710	0.805	346.3	-9.1	-2.69	1.179	48.6	0.726	1.671	107.1	197.5	---	2.883	-8.59	0.424	54.7	55.4	-6.6	0.348
4-1210	4-1730	0.782	347.5	-8.1	-2.16	1.183	50.0	0.714	1.699	104.0	198.9	---	2.912	-8.62	0.437	54.4	58.5	-6.8	0.345
4-1210	4-1750	0.759	348.7	-7.0	-1.62	1.187	51.5	0.703	1.726	100.9	200.4	---	2.940	-8.68	0.449	54.3	61.7	-7.1	0.342
4-1210	4-1770	0.737	349.8	-5.9	-1.07	1.191	52.8	0.693	1.753	97.8	201.9	---	2.967	-8.80	0.461	54.1	65.0	-7.5	0.340
4-1210	4-1790	0.714	350.9	-4.6	-0.49	1.194	54.2	0.683	1.779	94.7	203.4	---	2.993	-8.96	0.473	54.0	68.4	-7.9	0.338
4-1210	4-1810	0.693	352.0	-3.3	0.12	1.198	55.6	0.673	1.804	91.6	204.9	---	3.019	-7.18	0.485	54.0	71.9	-8.4	0.337
4-1210	4-1830	0.671	353.0	-1.7	0.79	1.201	56.9	0.664	1.829	88.4	206.4	---	3.043	-7.47	0.496	54.0	75.5	-8.9	0.336
4-1210	4-1850	0.650	353.9	-0.0	1.53	1.204	58.2	0.654	1.854	85.3	208.0	---	3.067	-7.84	0.507	54.0	79.2	-9.6	0.335
4-1210	4-1870	0.630	354.8	2.0	2.35	1.207	59.6	0.646	1.878	82.1	209.6	---	3.090	-8.32	0.518	54.0	83.0	-10.4	0.335
4-1210	4-1890	0.610	355.5	4.3	3.30	1.210	60.9	0.637	1.901	78.9	211.2	---	3.113	-8.93	0.529	54.0	87.0	-11.4	0.335
4-1210	4-1910	0.592	356.0	7.0	4.43	1.212	62.2	0.629	1.924	75.7	212.8	---	3.135	-9.72	0.540	54.1	91.0	-12.6	0.337
4-1210	4-1930	0.575	356.2	10.4	5.80	1.215	63.5	0.622	1.947	72.4	214.5	---	3.157	-10.76	0.550	54.2	95.3	-14.2	0.340
4-1210	4-1950	0.562	355.9	14.5	7.53	1.217	64.8	0.614	1.969	69.1	216.2	---	3.178	-12.18	0.561	54.3	99.7	-16.2	0.344
4-1210	4-1970	0.554	354.7	19.7	9.85	1.219	66.1	0.607	1.990	65.8	217.9	---	3.199	-14.17	0.571	54.4	104.5	-18.8	0.352
4-1220	4-1380	1.468	324.9	-19.5	-73.19	1.098	7.3	0.992	1.269	171.1	178.5	---	---	-71.76	0.198	163.0	32.7	-5.0	0.632
4-1220	4-1400	1.402	327.3	-18.7	-44.47	1.092	9.5	0.987	1.247	168.6	178.8	---	---	-43.35	0.138	147.5	31.8	-5.0	0.580
4-1220	4-1420	1.346	329.5	-17.8	-30.27	1.092	12.6	0.977	1.246	164.9	179.2	---	---	-29.47	0.113	120.7	31.3	-5.1	0.541
4-1220	4-1440	1.298	331.6	-17.0	-22.64	1.095	15.7	0.964	1.258	161.1	179.8	---	---	-22.14	0.120	94.5	31.2	-5.1	0.512
4-1220	4-1460	1.255	333.5	-16.3	-17.97	1.100	18.6	0.950	1.276	157.3	180.7	---	2.489	-17.78	0.145	77.7	31.5	-5.1	0.489
4-1220	4-1480	1.215	335.3	-15.5	-14.82	1.107	21.3	0.935	1.300	153.6	181.6	---	2.515	-14.94	0.174	68.1	32.2	-5.1	0.470
4-1220	4-1500	1.179	337.0	-14.7	-12.53	1.114	23.9	0.920	1.326	150.0	182.6	---	2.545	-12.96	0.203	62.4	33.2	-5.1	0.455
4-1220	4-1520	1.145	338.7	-14.0	-10.78	1.121	26.3	0.904	1.354	146.4	183.8	---	2.578	-11.53	0.230	58.8	34.5	-5.1	0.442
4-1220	4-1540	1.113	340.3	-13.2	-9.37	1.128	28.5	0.888	1.383	143.0	184.9	---	2.612	-10.44	0.255	56.5	36.1	-5.1	0.431
4-1220	4-1560	1.082	341.8	-12.5	-8.21	1.134	30.7	0.873	1.413	139.6	186.1	---	2.647	-9.61	0.279	54.8	37.9	-5.2	0.422
4-1220	4-1580	1.053	343.2	-11.7	-7.21	1.141	32.7	0.858	1.444	136.2	187.4	---	2.682	-8.95	0.300	53.7	39.9	-5.2	0.413
4-1220	4-1600	1.025	344.6	-10.9	-6.35	1.147	34.6	0.843	1.474	132.9	188.6	---	2.716	-8.44	0.320	52.8	42.1	-5.3	0.406
4-1220	4-1620	0.997	346.0	-10.1	-5.57	1.153	36.5	0.828	1.505	129.7	189.9	---	2.751	-8.02	0.339	52.3	44.5	-5.4	0.399
4-1220	4-1640	0.970	347.3	-9.3	-4.87	1.159	38.3	0.814	1.535	126.5	191.2	---	2.789	-7.70	0.356	51.8	47.0	-5.5	0.393
4-1220	4-1660	0.944	348.6	-8.5	-4.21	1.164	40.0	0.800	1.565	123.3	192.5	---	2.818	-7.44	0.373	51.5	49.7	-5.6	0.388
4-1220	4-1680	0.919	349.8	-7.7	-3.60	1.169	41.6	0.787	1.595	120.1	193.9	---	2.850	-7.25	0.388	51.3	52.4	-5.7	0.383
4-1220	4-1700	0.894	351.1	-6.8	-3.01	1.174	43.3	0.774	1.624	116.9	195.3	---	2.881	-7.11	0.403	51.2	55.3	-5.9	0.378
4-1220	4-1720	0.869	352.3	-5.9	-2.44	1.179	44.8	0.761	1.653	113.8	196.7	---	2.912	-7.01	0.417	51.1	58.3	-6.1	0.374

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1220	4-1740	0.845	353.4	-4.9	-1.88	1.183	46.4	0.749	1.681	110.7	198.1	---	2.941	-6.97	0.431	51.0	61.5	-6.3	0.370
4-1220	4-1760	0.821	354.6	-3.9	-1.32	1.187	47.9	0.737	1.709	107.5	199.5	---	2.970	-6.96	0.444	51.0	64.7	-6.6	0.367
4-1220	4-1780	0.798	355.7	-2.8	-0.76	1.191	49.4	0.726	1.737	104.4	201.0	---	2.998	-7.01	0.457	51.1	68.0	-6.8	0.364
4-1220	4-1800	0.774	356.8	-1.6	-0.18	1.195	50.8	0.715	1.764	101.3	202.5	---	3.024	-7.09	0.470	51.1	71.4	-7.2	0.361
4-1220	4-1820	0.752	357.8	-0.4	0.42	1.198	52.3	0.704	1.790	98.1	204.0	---	3.050	-7.24	0.482	51.2	74.9	-7.6	0.359
4-1220	4-1840	0.729	358.8	1.0	1.06	1.202	53.7	0.694	1.816	95.0	205.6	---	3.075	-7.44	0.494	51.4	78.5	-8.0	0.357
4-1220	4-1860	0.707	359.8	2.6	1.74	1.205	55.1	0.683	1.841	91.8	207.1	---	3.100	-7.70	0.505	51.5	82.2	-8.6	0.355
4-1220	4-1880	0.685	0.7	4.3	2.49	1.208	56.5	0.674	1.866	88.6	208.7	---	3.123	-8.05	0.517	51.6	86.0	-9.2	0.355
4-1220	4-1900	0.664	1.5	6.3	3.33	1.211	57.8	0.664	1.890	85.4	210.4	---	3.148	-8.50	0.528	51.8	89.9	-10.0	0.354
4-1220	4-1920	0.643	2.2	8.5	4.28	1.213	59.2	0.655	1.914	82.1	212.0	---	3.168	-9.08	0.540	52.0	93.9	-10.9	0.355
4-1220	4-1940	0.624	2.7	11.2	5.40	1.216	60.6	0.646	1.937	78.9	213.7	---	3.190	-9.84	0.551	52.2	98.1	-12.1	0.356
4-1220	4-1960	0.607	2.9	14.4	6.75	1.218	62.0	0.638	1.960	75.5	215.4	---	3.211	-10.83	0.562	52.4	102.4	-13.5	0.358
4-1220	4-1980	0.593	2.6	18.3	8.44	1.221	63.3	0.630	1.983	72.2	217.1	---	3.231	-12.17	0.573	52.6	106.9	-15.4	0.362

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1420	4-1640	0.830	17.0	15.6	6.35	1.297	128.4	0.822	3.199	272.5	496.5	0.570	---	-10.20	0.882	144.5	152.1	-6.8	0.589
4-1420	4-1660	0.767	17.0	14.8	5.27	1.261	126.2	0.761	2.478	272.9	501.4	0.592	---	-9.45	0.612	139.5	153.4	-7.3	0.510
4-1420	4-1680	0.718	17.0	13.9	4.33	1.235	124.4	0.714	2.130	273.3	506.3	0.609	---	-8.85	0.555	134.3	154.3	-7.9	0.443
4-1420	4-1700	0.680	17.1	13.0	3.50	1.215	122.9	0.677	1.932	273.7	511.1	0.624	---	-8.38	0.510	128.8	154.5	-8.6	0.388
4-1420	4-1720	0.651	17.4	12.0	2.74	1.201	121.8	0.649	1.808	273.9	515.9	0.635	---	-8.00	0.475	123.0	154.1	-9.4	0.341
4-1420	4-1740	0.630	17.6	11.1	2.05	1.190	120.9	0.627	1.726	274.0	520.5	0.643	---	-7.70	0.448	117.1	152.9	-10.2	0.303
4-1420	4-1760	0.615	18.0	10.1	1.40	1.182	120.4	0.612	1.671	273.9	525.0	0.648	---	-7.46	0.429	111.1	150.8	-11.0	0.272
4-1420	4-1780	0.605	18.5	9.3	0.78	1.176	120.0	0.602	1.633	273.7	529.4	0.650	---	-7.28	0.415	105.2	147.9	-11.8	0.248
4-1420	4-1800	0.601	19.1	8.4	0.18	1.171	119.9	0.596	1.606	273.2	533.5	0.649	---	-7.16	0.406	99.4	144.1	-12.5	0.231
4-1420	4-1820	0.602	19.8	7.6	-0.41	1.168	120.1	0.594	1.589	272.5	537.4	0.645	---	-7.08	0.402	93.7	139.9	-12.9	0.221
4-1420	4-1840	0.607	20.7	6.9	-0.99	1.167	120.4	0.596	1.578	271.4	541.1	0.638	2.516	-7.06	0.401	88.3	135.5	-13.1	0.217
4-1420	4-1860	0.617	21.6	6.3	-1.58	1.166	121.0	0.601	1.572	270.1	544.6	0.627	2.516	-7.08	0.403	83.2	131.5	-13.0	0.220
4-1420	4-1880	0.631	22.7	5.8	-2.18	1.165	121.7	0.609	1.569	268.5	547.8	0.613	2.525	-7.15	0.407	78.3	128.2	-12.6	0.228
4-1420	4-1900	0.649	23.9	5.4	-2.81	1.165	122.8	0.621	1.570	266.6	550.7	0.596	2.544	-7.28	0.414	73.6	126.0	-12.1	0.241
4-1420	4-1920	0.672	25.3	5.1	-3.48	1.166	124.0	0.635	1.573	264.2	553.3	0.574	2.572	-7.47	0.422	69.1	124.8	-11.5	0.258
4-1420	4-1940	0.700	26.8	5.0	-4.19	1.167	125.5	0.652	1.578	261.5	555.5	0.548	2.608	-7.73	0.431	64.8	124.6	-10.8	0.279
4-1420	4-1960	0.733	28.5	4.9	-4.97	1.168	127.3	0.673	1.585	258.4	557.4	0.518	2.652	-8.08	0.441	60.6	125.5	-10.2	0.304
4-1420	4-1980	0.771	30.3	5.0	-5.85	1.169	129.5	0.697	1.593	254.8	559.0	0.483	2.703	-8.54	0.462	56.4	127.2	-9.7	0.333
4-1420	4-2000	0.817	32.3	5.3	-6.86	1.171	131.9	0.724	1.603	250.7	560.1	0.442	2.763	-9.15	0.464	52.2	129.8	-9.2	0.366
4-1420	4-2020	0.869	34.5	5.7	-8.06	1.173	134.9	0.755	1.614	246.0	560.7	0.396	2.831	-9.95	0.476	47.8	133.1	-8.7	0.403
4-1420	4-2040	0.929	37.0	6.2	-9.52	1.175	138.2	0.788	1.626	240.7	560.7	0.344	2.908	-11.02	0.488	43.3	137.2	-8.3	0.444
4-1420	4-2060	0.999	39.7	6.9	-11.39	1.177	142.1	0.825	1.639	234.7	560.1	0.288	2.991	-12.51	0.500	38.5	141.9	-7.9	0.491
4-1420	4-2080	1.078	42.8	7.7	-13.89	1.179	146.6	0.863	1.654	227.9	558.9	0.227	3.081	-14.64	0.513	33.4	147.3	-7.5	0.544
4-1420	4-2100	1.166	46.1	8.7	-17.51	1.182	151.7	0.901	1.671	220.4	556.8	0.186	3.175	-17.89	0.526	27.8	153.4	-7.2	0.603
4-1430	4-1650	0.799	23.5	19.7	7.03	1.302	126.4	0.820	3.393	277.3	493.8	0.610	---	-11.45	0.695	143.9	155.7	-7.9	0.595
4-1430	4-1670	0.735	23.5	18.5	5.65	1.266	124.1	0.755	2.582	277.9	498.8	0.632	---	-10.37	0.625	139.0	157.2	-8.2	0.514
4-1430	4-1690	0.684	23.5	17.2	4.50	1.239	122.3	0.704	2.200	278.4	503.9	0.651	---	-9.53	0.589	133.9	158.4	-8.7	0.447
4-1430	4-1710	0.645	23.7	16.0	3.51	1.219	120.8	0.665	1.985	278.9	508.8	0.686	---	-8.87	0.524	128.6	158.9	-9.3	0.391
4-1430	4-1730	0.614	23.9	14.8	2.64	1.204	119.6	0.634	1.851	279.2	513.7	0.678	---	-8.34	0.489	123.0	158.9	-10.0	0.344
4-1430	4-1750	0.591	24.1	13.6	1.87	1.192	118.7	0.610	1.763	279.5	518.5	0.687	---	-7.91	0.463	117.3	158.1	-10.7	0.304
4-1430	4-1770	0.575	24.5	12.5	1.16	1.184	118.0	0.593	1.703	279.5	523.2	0.693	---	-7.57	0.443	111.6	156.4	-11.5	0.272
4-1430	4-1790	0.564	25.0	11.4	0.50	1.178	117.6	0.581	1.661	279.4	527.7	0.697	---	-7.30	0.429	106.0	153.9	-12.3	0.246
4-1430	4-1810	0.558	25.6	10.4	-0.12	1.173	117.4	0.573	1.633	279.1	532.0	0.697	---	-7.10	0.420	100.5	150.5	-13.0	0.227
4-1430	4-1830	0.557	26.3	9.4	-0.72	1.170	117.4	0.569	1.613	278.5	536.1	0.695	---	-6.94	0.415	95.1	146.5	-13.5	0.214
4-1430	4-1850	0.560	27.1	8.6	-1.30	1.168	117.7	0.569	1.600	277.7	540.0	0.690	---	-6.84	0.414	90.0	142.1	-13.7	0.208
4-1430	4-1870	0.567	28.0	7.9	-1.87	1.167	118.1	0.572	1.593	276.6	543.6	0.682	2.504	-6.79	0.416	85.2	137.9	-13.7	0.207
4-1430	4-1890	0.578	29.0	7.3	-2.44	1.166	118.7	0.578	1.589	275.2	547.0	0.670	2.508	-6.78	0.420	80.6	134.2	-13.3	0.212
4-1430	4-1910	0.593	30.2	6.8	-3.03	1.166	119.5	0.587	1.589	273.4	550.2	0.656	2.522	-6.83	0.426	76.2	131.4	-12.8	0.222
4-1430	4-1930	0.613	31.5	6.4	-3.64	1.166	120.6	0.599	1.591	271.3	553.0	0.637	2.544	-6.93	0.433	72.0	129.7	-12.1	0.237
4-1430	4-1950	0.636	32.9	6.2	-4.27	1.167	121.9	0.614	1.595	268.8	555.6	0.615	2.574	-7.08	0.442	68.0	129.0	-11.4	0.255
4-1430	4-1970	0.665	34.5	6.1	-4.96	1.168	123.4	0.632	1.600	266.0	557.8	0.589	2.612	-7.31	0.452	64.1	129.3	-10.8	0.277
4-1430	4-1990	0.699	36.3	6.1	-5.70	1.169	125.3	0.653	1.608	262.7	559.7	0.557	2.658	-7.62	0.462	60.2	130.6	-10.1	0.302
4-1430	4-2010	0.738	38.2	6.3	-6.53	1.171	127.4	0.678	1.616	258.9	561.2	0.521	2.712	-8.03	0.473	56.4	132.7	-9.6	0.331
4-1430	4-2030	0.784	40.3	6.6	-7.48	1.172	129.9	0.705	1.626	254.8	562.2	0.479	2.774	-8.58	0.484	52.4	135.6	-9.0	0.364
4-1430	4-2050	0.837	42.6	7.1	-8.60	1.174	132.9	0.737	1.637	249.7	562.8	0.431	2.844	-9.30	0.496	48.3	139.3	-8.6	0.402
4-1430	4-2070	0.899	45.1	7.7	-9.96	1.176	136.3	0.772	1.650	244.2	562.7	0.377	2.923	-10.28	0.508	44.0	143.6	-8.2	0.444
4-1430	4-2090	0.969	48.0	8.5	-11.69	1.178	140.3	0.810	1.663	237.9	562.1	0.317	3.010	-11.63	0.520	39.4	148.5	-7.8	0.492
4-1430	4-2110	1.050	51.1	9.4	-14.01	1.180	144.9	0.850	1.678	230.9	560.7	0.252	3.104	-13.57	0.532	34.3	154.2	-7.4	0.546
4-1430	4-2130	1.141	54.7	10.4	-17.32	1.183	150.1	0.891	1.694	223.0	558.5	0.185	3.203	-16.52	0.544	28.8	160.5	-7.1	0.606
4-1440	4-1660	0.769	29.8	24.4	8.13	1.306	124.3	0.818	3.576	282.2	491.3	0.651	---	-13.06	0.706	143.2	159.1	-9.2	0.599
4-1440	4-1680	0.702	29.8	22.4	6.26	1.269	122.0	0.749	2.679	282.9	496.4	0.673	---	-11.47	0.636	138.5	160.9	-9.3	0.518
4-1440	4-1700	0.649	29.9	20.7	4.79	1.242	120.2	0.695	2.265	283.5	501.5	0.692	---	-10.27	0.580	133.5	162.2	-9.6	0.450
4-1440	4-1720	0.609	30.1	19.0	3.58	1.222	118.6	0.652	2.034	284.1	506.6	0.707	---	-9.35	0.536	128.2	163.1	-10.0	0.393
4-1440	4-1740	0.577	30.3	17.4	2.57	1.206	117.4	0.619	1.891	284.6	511.7	0.720	---	-8.63	0.502	122.9	163.3	-10.5	0.346
4-1440	4-1760	0.553	30.6	15.9	1.69	1.195	116.4	0.594	1.797	285.0	516.6	0.730	---	-8.06	0.475	117.4	162.8	-11.2	0.305
4-1440	4-1780	0.535	30.9	14.5	0.91	1.186	115.7	0.575	1.733	285.2	521.4	0.737	---	-7.60	0.455	111.9	161.6	-11.9	0.272
4-1440	4-1800	0.523	31.4	13.2	0.20	1.180	115.2	0.561	1.688	285.3	526.1	0.741	---	-7.23	0.442	106.5	159.5	-12.6	0.245
4-1440	4-1820	0.516	31.9	11.9	-0.45	1.175	115.0	0.552	1.657	285.1	530.6	0.743	---	-6.94	0.433	101.2	156.5	-13.2	0.224
4-1440	4-1840	0.513	32.6	10.8	-1.05	1.172	114.9	0.546	1.636	284.7	534.8	0.742	---	-6.71	0.428	96.1	152.7	-13.8	0.209
4-1440	4-1860	0.515	33.4	9.9	-1.63	1.169	115.0	0.545	1.622	284.0	538.9	0.738	---	-6.53	0.427	91.3	148.4	-14.0	0.200
4-1440	4-1880	0.520	34.3	9.0	-2.19	1.168	115.4	0.546	1.613	283.0	542.8	0.732	2.493	-6.41	0.428	86.7	144.0	-14.0	0.197
4-1440	4-1900	0.529	35.3	8.3	-2.74	1.167	115.9	0.550	1.608	281.7	546.4	0.723	2.493	-6.34	0.432	82.3	140.1	-13.7	0.199
4-1440	4-1920	0.542	36.4	7.7	-3.29	1.167	116.6	0.558	1.607	280.2	549.7	0.711	2.502	-6.31	0.437	78.2	136.8	-13.2	0.207
4-1440	4-1940	0.558	37.7	7.3	-3.84	1.167	117.4	0.567	1.608	278.2	552.8	0.695	2.520	-6.33	0.444	74.3	134.6	-12.5	0.218
4-1440	4-1960	0.579	39.1	7.1	-4.41	1.168	118.6	0.580	1.611	276.0	555.6	0.677	2.545	-6.40	0.463	70.5	133.4	-11.7	0.234
4-1440	4-1980	0.603	40.6	6.9	-5.01	1.168	119.9	0.596	1.616	273.3	558.1	0.654	2.578	-6.52	0.482	66.9	133.3	-11.0	0.253
4-1440	4-2000	0.633	42.3	6.9	-5.64	1.169	121.5	0.614	1.623	270.3	560.3	0.626	2.619	-6.71	0.472	63.4	134.1	-10.3	0.276
4-1440	4-2020	0.667	44.1	7.1	-6.33	1.171	123.4	0.636	1.630	266.8	562.1	0.594	2.667	-6.98	0.482	59.8	135.9	-9.7	0.302
4-1440	4-2040	0.707	46.1	7.4	-7.10	1.172	125.5	0.660	1.639	262.8	563.5	0.557	2.722	-7.34	0.493	56.3	138.4	-9.1	0.332
4-1440	4-2060	0.754	48.3	7.8	-7.98	1.174	128.1	0.689	1.650	258.2	564.5	0.513	2.788	-7.83	0.504	52.6	141.7	-8.6	0.365
4-1440	4-2080	0.808	50.7	8.3	-9.00	1.176	131.1	0.721	1.661	253.1	564.9	0.463	2.859	-8.47	0.516	48.7	145.6	-8.1	0.403
4-1440	4-2100	0.871	53.4	9.0	-10.25	1.177	134.6	0.757	1.673	247.3	564.8	0.406	2.941	-9.35	0.527	44.6	150.2	-7.7	0.446
4-1440	4-2120	0.943	56.3	9.9	-11.83	1.179	138.7	0.797	1.687	240.8	563.9	0.343	3.031	-10.56	0.538	40.0	155.4	-7.4	0.495
4-1440	4-2140	1.026	59.7	10.8	-13.93	1.182	143.5	0.839	1.702	233.4	562.3	0.274	3.130	-12.31	0.549	35.0	161.4	-7.0	0.550
4-1440	4-2160	1.120	63.4	11.9	-16.94	1.184	148.9	0.883	1.718	225.1	559.9	0.202	3.234	-14.97	0.561	29.5	167.9	-6.7	0.612
4-1450	4-1670	0.741	35.9	30.2	10.04	1.308	122.1	0.815	3.737	287.2	488.9	0.691	---	-15.44	0.714	142.4	182.2	-11.1	0.603
4-1450	4-1690	0.669	36.0	27.0	7.28	1.272	119.9	0.742	2.763	288.8	494.2	0.713	---	-12.92	0.645	137.8	164.3	-10.7	0.521
4-1450	4-1710	0.614	36.1	24.4	5.28	1.244	118.0	0.685	2.322	288.8	499.4	0.732	---	-11.16	0.590	132.9	165.8	-10.7	0.452
4-1450	4-1730	0.572	36.3	22.0	3.74	1.224	116.4	0.640	2.077	289.5	504.6	0.748	---	-9.86	0.546	127.8	166.9	-10.8	0.395
4-1450	4-1750	0.539	36.5	19.9	2.51	1.208	115.2	0.605	1.926	290.1	509.8	0.761	---	-8.88	0.512	122.5	167.4	-11.1	0.346

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1450	4-1770	0.514	36.8	17.9	1.49	1.197	114.2	0.578	1.827	290.7	514.9	0.771	---	-8.12	0.486	117.2	167.3	-11.5	0.305
4-1450	4-1790	0.496	37.2	16.1	0.62	1.188	113.4	0.558	1.760	291.0	519.9	0.779	---	-7.52	0.467	111.9	166.3	-12.1	0.271
4-1450	4-1810	0.483	37.6	14.5	-0.14	1.181	112.9	0.542	1.713	291.2	524.7	0.784	---	-7.05	0.453	106.7	164.6	-12.7	0.243
4-1450	4-1830	0.475	38.2	13.0	-0.82	1.176	112.6	0.532	1.680	291.1	529.3	0.786	---	-6.66	0.444	101.7	161.9	-13.2	0.220
4-1450	4-1850	0.472	38.8	11.7	-1.44	1.173	112.5	0.525	1.657	290.9	533.7	0.786	---	-6.36	0.439	96.8	158.4	-13.7	0.204
4-1450	4-1870	0.472	39.6	10.6	-2.02	1.171	112.5	0.522	1.642	290.3	538.0	0.784	---	-6.12	0.438	92.2	154.2	-14.0	0.193
4-1450	4-1890	0.476	40.5	9.6	-2.56	1.169	112.8	0.522	1.632	289.5	542.0	0.779	2.484	-5.93	0.439	87.8	149.8	-14.0	0.188
4-1450	4-1910	0.483	41.5	8.8	-3.08	1.168	113.2	0.525	1.626	288.3	545.7	0.772	2.480	-5.80	0.443	83.7	145.6	-13.7	0.188
4-1450	4-1930	0.494	42.6	8.2	-3.59	1.168	113.8	0.531	1.624	286.9	549.3	0.762	2.486	-5.71	0.448	79.8	142.1	-13.1	0.193
4-1450	4-1950	0.508	43.8	7.7	-4.09	1.168	114.5	0.539	1.624	285.1	552.6	0.749	2.499	-5.66	0.455	76.1	139.4	-12.4	0.203
4-1450	4-1970	0.526	45.1	7.4	-4.60	1.168	115.5	0.550	1.627	283.0	555.6	0.733	2.521	-5.66	0.463	72.6	137.8	-11.6	0.216
4-1450	4-1990	0.548	46.6	7.3	-5.12	1.169	116.6	0.563	1.631	280.5	558.3	0.713	2.549	-5.71	0.472	69.2	137.3	-10.8	0.233
4-1450	4-2010	0.573	48.2	7.3	-5.66	1.170	118.0	0.579	1.637	277.7	560.7	0.689	2.585	-5.81	0.481	66.0	137.8	-10.1	0.254
4-1450	4-2030	0.603	50.0	7.5	-6.24	1.171	119.7	0.598	1.644	274.4	562.8	0.661	2.627	-5.96	0.491	62.7	139.1	-9.4	0.277
4-1450	4-2050	0.639	51.9	7.7	-6.86	1.172	121.6	0.620	1.653	270.7	564.5	0.628	2.677	-6.19	0.502	59.5	141.3	-8.8	0.303
4-1450	4-2070	0.680	54.0	8.2	-7.55	1.174	123.9	0.645	1.662	266.4	565.8	0.589	2.735	-6.50	0.512	56.1	144.3	-8.3	0.334
4-1450	4-2090	0.727	56.3	8.7	-8.33	1.175	126.5	0.675	1.673	261.6	566.7	0.544	2.801	-6.92	0.523	52.7	147.9	-7.8	0.368
4-1450	4-2110	0.783	58.9	9.4	-9.25	1.177	129.6	0.708	1.684	256.2	567.0	0.492	2.877	-7.48	0.534	49.0	152.2	-7.4	0.406
4-1450	4-2130	0.847	61.7	10.2	-10.36	1.179	133.2	0.745	1.697	250.1	566.7	0.432	2.961	-8.25	0.545	44.9	157.1	-7.0	0.450
4-1450	4-2150	0.921	64.8	11.1	-11.77	1.181	137.4	0.787	1.710	243.2	565.7	0.365	3.056	-9.32	0.555	40.5	162.6	-6.7	0.500
4-1450	4-2170	1.006	68.3	12.1	-13.64	1.183	142.3	0.831	1.725	235.4	563.9	0.292	3.159	-10.86	0.566	35.5	168.8	-6.4	0.556
4-1450	4-2190	1.103	72.2	13.2	-16.33	1.185	148.0	0.877	1.742	226.7	561.2	0.215	3.268	-13.23	0.576	29.9	175.6	-6.1	0.620
4-1460	4-1680	0.727	41.7	39.3	13.94	1.310	119.9	0.811	3.864	292.3	486.8	0.731	---	-19.76	0.720	141.6	164.6	-14.3	0.612
4-1460	4-1700	0.640	41.8	33.2	9.16	1.274	117.6	0.734	2.831	293.2	492.1	0.753	---	-15.18	0.652	137.0	167.3	-12.8	0.524
4-1460	4-1720	0.579	42.0	28.7	6.14	1.246	115.7	0.674	2.368	294.2	497.5	0.772	---	-12.35	0.597	132.2	169.2	-12.1	0.453
4-1460	4-1740	0.535	42.3	25.1	4.03	1.226	114.2	0.627	2.113	295.0	502.8	0.787	---	-10.45	0.554	127.2	170.5	-11.7	0.395
4-1460	4-1760	0.501	42.5	22.1	2.47	1.210	112.9	0.591	1.956	295.8	508.2	0.800	---	-9.10	0.521	122.1	171.2	-11.7	0.345
4-1460	4-1780	0.476	42.9	19.5	1.26	1.198	111.9	0.563	1.853	296.5	513.4	0.811	---	-8.10	0.495	116.9	171.3	-11.8	0.304
4-1460	4-1800	0.457	43.2	17.2	0.27	1.189	111.2	0.541	1.783	297.0	518.5	0.818	---	-7.33	0.476	111.8	170.7	-12.1	0.269
4-1460	4-1820	0.444	43.7	15.2	-0.56	1.183	110.6	0.525	1.734	297.3	523.5	0.824	---	-6.73	0.463	106.8	169.2	-12.5	0.240
4-1460	4-1840	0.436	44.2	13.4	-1.28	1.178	110.3	0.514	1.700	297.4	528.2	0.827	---	-6.26	0.454	101.9	166.8	-12.9	0.217
4-1460	4-1860	0.431	44.8	11.9	-1.91	1.174	110.1	0.506	1.676	297.2	532.8	0.828	---	-5.88	0.449	97.2	168.5	-13.3	0.199
4-1460	4-1880	0.431	45.6	10.6	-2.48	1.172	110.1	0.502	1.660	296.7	537.2	0.826	---	-5.58	0.448	92.8	159.5	-13.5	0.187
4-1460	4-1900	0.434	46.4	9.5	-3.00	1.170	110.3	0.501	1.649	296.0	541.3	0.823	2.475	-5.34	0.449	88.6	155.2	-13.4	0.180
4-1460	4-1920	0.440	47.4	8.7	-3.49	1.169	110.6	0.503	1.643	295.0	545.3	0.817	2.468	-5.15	0.453	84.7	150.8	-13.1	0.179
4-1460	4-1940	0.449	48.5	8.0	-3.96	1.169	111.1	0.507	1.640	293.7	548.9	0.809	2.471	-5.02	0.458	81.0	147.0	-12.5	0.182
4-1460	4-1960	0.462	49.7	7.5	-4.41	1.169	111.8	0.513	1.640	292.0	552.4	0.798	2.482	-4.92	0.465	77.6	144.0	-11.8	0.190
4-1460	4-1980	0.477	51.0	7.2	-4.86	1.169	112.6	0.522	1.642	290.0	555.5	0.784	2.500	-4.87	0.472	74.3	142.1	-11.0	0.201
4-1460	4-2000	0.496	52.5	7.1	-5.30	1.169	113.6	0.534	1.646	287.7	558.5	0.767	2.524	-4.85	0.481	71.1	141.2	-10.2	0.216
4-1460	4-2020	0.519	54.1	7.2	-5.76	1.170	114.9	0.548	1.651	285.0	561.1	0.747	2.556	-4.88	0.490	68.1	141.4	-9.5	0.235
4-1460	4-2040	0.546	55.8	7.4	-6.23	1.171	116.3	0.564	1.658	281.8	563.4	0.722	2.594	-4.95	0.500	65.1	142.5	-8.8	0.256
4-1460	4-2060	0.577	57.7	7.7	-6.73	1.173	118.1	0.584	1.666	278.3	565.4	0.693	2.639	-5.07	0.510	62.1	144.4	-8.2	0.280
4-1460	4-2080	0.613	59.8	8.2	-7.27	1.174	120.1	0.607	1.675	274.3	567.0	0.659	2.691	-5.26	0.520	59.1	147.1	-7.7	0.307
4-1460	4-2100	0.655	62.0	8.8	-7.86	1.175	122.4	0.633	1.685	269.8	568.1	0.619	2.751	-5.51	0.531	56.0	150.4	-7.2	0.338
4-1460	4-2120	0.704	64.5	9.5	-8.54	1.177	125.1	0.663	1.696	264.7	568.9	0.571	2.820	-5.87	0.541	52.7	154.4	-6.8	0.372
4-1460	4-2140	0.760	67.2	10.3	-9.33	1.179	128.3	0.697	1.707	258.9	569.0	0.517	2.898	-6.34	0.551	49.1	159.0	-6.4	0.411
4-1460	4-2160	0.826	70.2	11.2	-10.28	1.181	132.0	0.736	1.720	252.5	568.5	0.454	2.986	-7.00	0.561	45.2	164.2	-6.1	0.456
4-1460	4-2180	0.902	73.5	12.1	-11.49	1.183	136.4	0.779	1.734	245.2	567.3	0.383	3.085	-7.91	0.571	40.7	170.1	-5.8	0.507
4-1460	4-2200	0.990	77.2	13.2	-13.10	1.185	141.5	0.825	1.749	237.0	565.2	0.305	3.193	-9.24	0.580	35.8	176.5	-5.5	0.565
4-1460	4-2220	1.090	81.3	14.2	-15.43	1.187	147.4	0.873	1.765	227.8	562.2	0.224	3.307	-11.27	0.590	30.1	183.6	-5.3	0.630
4-1470	4-1690	0.795	50.4	59.0	25.47	1.311	117.6	0.805	3.944	297.4	484.8	0.770	---	-31.65	0.724	140.7	164.0	-21.8	0.647
4-1470	4-1710	0.629	47.1	44.0	13.48	1.275	115.3	0.725	2.878	298.6	490.2	0.792	---	-19.82	0.657	136.1	169.4	-16.8	0.533
4-1470	4-1730	0.548	47.3	34.9	7.84	1.247	113.4	0.663	2.403	299.8	495.7	0.811	---	-14.34	0.603	131.4	172.1	-14.3	0.455
4-1470	4-1750	0.497	47.8	28.8	4.59	1.227	111.9	0.614	2.141	300.8	501.3	0.826	---	-11.25	0.561	126.4	173.8	-12.9	0.394
4-1470	4-1770	0.462	48.2	24.2	2.46	1.211	110.6	0.577	1.981	301.7	506.7	0.838	---	-9.28	0.528	121.4	174.8	-12.2	0.343
4-1470	4-1790	0.436	48.6	20.5	0.94	1.199	109.6	0.548	1.875	302.5	512.1	0.848	---	-7.94	0.503	116.4	175.1	-11.9	0.301
4-1470	4-1810	0.418	49.0	17.5	-0.20	1.191	108.9	0.525	1.803	303.1	517.4	0.856	---	-6.96	0.484	111.4	174.6	-11.9	0.265
4-1470	4-1830	0.405	49.4	15.0	-1.11	1.184	108.3	0.509	1.753	303.6	522.5	0.861	---	-6.23	0.471	106.6	173.4	-12.0	0.236
4-1470	4-1850	0.397	49.9	12.9	-1.86	1.179	107.9	0.497	1.718	303.7	527.4	0.865	---	-5.67	0.463	101.9	171.2	-12.2	0.212
4-1470	4-1870	0.393	50.5	11.1	-2.49	1.175	107.7	0.488	1.693	303.7	532.1	0.866	---	-5.23	0.458	97.4	168.1	-12.4	0.194
4-1470	4-1890	0.392	51.3	9.7	-3.05	1.173	107.7	0.484	1.676	303.3	536.6	0.865	---	-4.88	0.457	93.1	164.3	-12.4	0.181
4-1470	4-1910	0.395	52.1	8.5	-3.54	1.171	107.8	0.482	1.665	302.7	540.9	0.863	2.467	-4.60	0.458	89.2	159.9	-12.3	0.173
4-1470	4-1930	0.400	53.0	7.6	-3.99	1.170	108.1	0.483	1.658	301.8	545.0	0.858	2.458	-4.38	0.462	85.4	155.5	-11.9	0.170
4-1470	4-1950	0.408	54.1	7.0	-4.40	1.169	108.6	0.486	1.655	300.5	548.8	0.851	2.458	-4.21	0.467	81.9	151.5	-11.4	0.172
4-1470	4-1970	0.419	55.3	6.6	-4.80	1.169	109.2	0.491	1.654	298.9	552.3	0.842	2.468	-4.08	0.474	78.6	148.3	-10.7	0.179
4-1470	4-1990	0.433	56.7	6.3	-5.18	1.170	109.9	0.499	1.656	297.0	555.6	0.830	2.482	-3.99	0.481	75.5	146.1	-9.9	0.189
4-1470	4-2010	0.450	58.1	6.3	-5.55	1.170	110.8	0.508	1.660	294.8	558.7	0.816	2.503	-3.93	0.490	72.6	144.9	-9.1	0.202
4-1470	4-2030	0.470	59.7	6.5	-5.92	1.171	111.9	0.521	1.665	292.2	561.4	0.798	2.531	-3.91	0.499	69.7	144.9	-8.4	0.219
4-1470	4-2050	0.493	61.5	6.8	-6.29	1.172	113.3	0.535	1.671	289.2	563.9	0.777	2.565	-3.93	0.508	67.0	145.7	-7.7	0.238
4-1470	4-2070	0.521	63.4	7.2	-6.68	1.173	114.8	0.552	1.679	285.8	566.1	0.752	2.606	-3.98	0.518	64.3	147.4	-7.2	0.260
4-1470	4-2090	0.553	65.4	7.8	-7.09	1.174	116.6	0.572	1.687	282.0	568.0	0.722	2.653	-4.07	0.528	61.5	149.9	-6.6	0.284
4-1470	4-2110	0.590	67.6	8.4	-7.53	1.176	118.7	0.596	1.697	277.7	569.4	0.686	2.708	-4.21	0.538	58.7	153.1	-6.2	0.312
4-1470	4-2130	0.633	70.0	9.2	-8.02	1.177	121.1	0.623	1.707	272.8	570.4	0.644	2.770	-4.42	0.548	55.7	156.8	-5.8	0.344
4-1470	4-2150	0.683	72.7	10.1	-8.57	1.179	123.9	0.654	1.718	267.4	571.0	0.595	2.842	-4.70	0.558	52.6	161.2	-5.5	0.379
4-1470	4-2170	0.741	75.6	11.0	-9.21	1.181	127.3	0.689	1.730	261.3	570.9	0.538	2.923	-5.08	0.567	49.1	166.1	-5.2	0.419
4-1470	4-2190	0.809	78.7	12.0	-9.99	1.183	131.1	0.729	1.744	254.5	570.2	0.472	3.015	-5.61	0.576	45.2	171.7	-4.9	0.465
4-1470	4-2210	0.887	82.3	13.0	-10.97	1.185	135.7	0.774	1.758	246.8	568.7	0.397	3.118	-6.35	0.585	40.8	177.8	-4.7	0.516
4-1470	4-2230	0.978	86.2	14.0	-12.29	1.187	141.0	0.822	1.773	238.2	566.4	0.315	3.230	-7.43	0.594	35.8	184.5	-4.5	0.575
4-1470	4-2250	1.081	90.6	15.0	-14.20	1.189	147.1	0.872	1.790	228.5	563.0	0.229	3.350	-9.11	0.602	30.1	191.9	-4.3	0.642
4-1480	4-1720	0.790	64.1	72.8	31.22	1.275	112.9	0.714	2.900	304.0	488.7	0.829	---	-37.84	0.659	135.2	165.2	-28.2	0.602

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1480	4-1740	0.540	51.8	47.4	12.43	1.248	111.0	0.650	2.423	305.5	494.3	0.848	---	-19.17	0.806	130.4	173.9	-19.0	0.465
4-1480	4-1760	0.463	52.6	34.1	5.80	1.227	109.5	0.601	2.160	306.8	500.0	0.863	---	-12.66	0.565	125.6	176.7	-14.9	0.393
4-1480	4-1780	0.423	53.3	26.1	2.47	1.212	108.3	0.562	1.998	307.9	505.6	0.874	---	-9.45	0.533	120.6	178.1	-12.8	0.339
4-1480	4-1800	0.397	53.9	20.7	0.46	1.200	107.3	0.533	1.891	308.8	511.2	0.884	---	-7.56	0.509	115.7	178.6	-11.7	0.296
4-1480	4-1820	0.380	54.3	16.6	-0.90	1.191	106.5	0.510	1.819	309.6	516.6	0.891	---	-6.32	0.491	110.9	178.3	-11.2	0.260
4-1480	4-1840	0.368	54.7	13.5	-1.89	1.185	106.0	0.493	1.768	310.1	521.8	0.896	---	-5.46	0.478	106.1	177.1	-10.9	0.231
4-1480	4-1860	0.361	55.2	11.0	-2.65	1.180	105.6	0.481	1.732	310.4	526.9	0.899	---	-4.83	0.470	101.6	175.1	-10.8	0.207
4-1480	4-1880	0.357	55.8	9.0	-3.27	1.176	105.4	0.472	1.707	310.4	531.7	0.901	---	-4.35	0.466	97.3	172.1	-10.7	0.188
4-1480	4-1900	0.356	56.5	7.5	-3.78	1.174	105.4	0.467	1.690	310.1	536.3	0.901	---	-3.97	0.465	93.2	168.4	-10.6	0.174
4-1480	4-1920	0.359	57.3	6.3	-4.22	1.172	105.5	0.465	1.678	309.8	540.7	0.899	2.458	-3.68	0.467	89.4	164.1	-10.4	0.166
4-1480	4-1940	0.363	58.2	5.5	-4.61	1.171	105.7	0.465	1.671	308.7	544.8	0.895	2.448	-3.45	0.470	85.8	159.6	-10.0	0.162
4-1480	4-1960	0.371	59.3	4.9	-4.96	1.170	106.1	0.467	1.668	307.5	548.7	0.889	2.447	-3.27	0.476	82.5	155.5	-9.5	0.164
4-1480	4-1980	0.380	60.5	4.6	-5.28	1.170	106.6	0.471	1.667	306.0	552.4	0.881	2.453	-3.13	0.482	79.4	152.1	-8.8	0.169
4-1480	4-2000	0.393	61.9	4.6	-5.58	1.171	107.3	0.478	1.669	304.1	555.8	0.871	2.467	-3.02	0.490	76.4	149.7	-8.1	0.178
4-1480	4-2020	0.407	63.4	4.7	-5.87	1.171	108.2	0.486	1.672	301.9	559.0	0.859	2.486	-2.94	0.498	73.7	148.4	-7.4	0.191
4-1480	4-2040	0.425	65.0	5.0	-6.15	1.172	109.2	0.497	1.677	299.4	561.9	0.844	2.511	-2.89	0.507	71.0	148.2	-6.8	0.206
4-1480	4-2060	0.446	66.8	5.5	-6.43	1.173	110.4	0.510	1.684	296.5	564.5	0.826	2.542	-2.87	0.516	68.5	148.9	-6.2	0.223
4-1480	4-2080	0.470	68.7	6.1	-6.72	1.174	111.8	0.525	1.691	293.2	566.8	0.804	2.579	-2.87	0.526	66.0	150.4	-5.7	0.243
4-1480	4-2100	0.499	70.8	6.8	-7.01	1.175	113.4	0.543	1.699	289.5	568.8	0.777	2.621	-2.91	0.536	63.5	152.7	-5.2	0.266
4-1480	4-2120	0.531	73.1	7.7	-7.31	1.177	115.3	0.563	1.709	285.3	570.5	0.746	2.671	-2.97	0.545	60.9	155.7	-4.9	0.291
4-1480	4-2140	0.570	75.5	8.6	-7.64	1.178	117.5	0.587	1.719	280.7	571.8	0.710	2.728	-3.07	0.555	58.3	159.4	-4.5	0.320
4-1480	4-2160	0.614	78.1	9.6	-8.00	1.180	120.0	0.615	1.730	275.5	572.6	0.668	2.793	-3.22	0.564	55.5	163.6	-4.3	0.352
4-1480	4-2180	0.665	80.9	10.6	-8.41	1.181	123.0	0.647	1.741	269.7	572.9	0.615	2.868	-3.43	0.573	52.4	168.3	-4.0	0.388
4-1480	4-2200	0.725	84.1	11.6	-8.89	1.183	126.4	0.684	1.754	263.3	572.7	0.555	2.952	-3.71	0.582	49.0	173.6	-3.8	0.429
4-1480	4-2220	0.795	87.5	12.7	-9.47	1.185	130.5	0.725	1.767	256.1	571.7	0.486	3.048	-4.10	0.590	45.2	179.4	-3.6	0.475
4-1480	4-2240	0.876	91.3	13.7	-10.20	1.187	135.2	0.771	1.781	248.0	569.9	0.408	3.155	-4.66	0.598	40.8	185.8	-3.4	0.528
4-1480	4-2260	0.969	95.5	14.7	-11.19	1.189	140.7	0.821	1.797	238.9	567.3	0.321	3.273	-5.47	0.605	35.7	192.8	-3.3	0.588
4-1490	4-1710	0.653	75.0	-14.9	-19.04	1.309	111.9	0.783	3.937	309.6	481.3	0.854	---	12.24	0.724	138.4	175.7	10.2	0.574
4-1490	4-1730	0.791	88.6	-33.1	-33.40	1.274	109.9	0.699	2.897	311.1	487.2	0.873	---	26.54	0.659	133.9	173.1	22.9	0.544
4-1490	4-1770	0.450	55.6	47.5	10.04	1.227	107.0	0.586	2.168	313.1	499.0	0.897	---	-17.04	0.568	124.6	178.4	-20.0	0.401
4-1490	4-1790	0.384	57.6	28.1	2.56	1.212	105.8	0.548	2.007	314.4	504.9	0.908	---	-9.63	0.536	119.7	181.1	-13.5	0.334
4-1490	4-1810	0.358	58.6	18.9	-0.44	1.201	104.9	0.518	1.901	315.4	510.6	0.917	---	-6.71	0.513	114.9	181.8	-10.8	0.289
4-1490	4-1830	0.344	59.2	13.3	-2.06	1.192	104.1	0.495	1.829	316.3	516.1	0.923	---	-5.16	0.496	110.1	181.6	-9.5	0.253
4-1490	4-1850	0.334	59.6	9.6	-3.09	1.186	103.6	0.478	1.779	316.9	521.5	0.928	---	-4.20	0.484	105.5	180.5	-8.8	0.224
4-1490	4-1870	0.328	60.0	6.8	-3.81	1.181	103.3	0.466	1.743	317.3	526.7	0.931	---	-3.56	0.477	101.1	178.5	-8.4	0.200
4-1490	4-1890	0.325	60.5	4.9	-4.35	1.177	103.1	0.458	1.718	317.4	531.6	0.932	---	-3.11	0.473	97.0	175.6	-8.1	0.182
4-1490	4-1910	0.325	61.1	3.4	-4.77	1.175	103.0	0.452	1.701	317.2	536.3	0.932	---	-2.77	0.472	93.0	171.8	-7.8	0.168
4-1490	4-1930	0.327	61.8	2.4	-5.11	1.173	103.1	0.449	1.690	316.8	540.8	0.930	2.449	-2.51	0.474	89.4	167.5	-7.5	0.159
4-1490	4-1950	0.331	62.8	1.8	-5.41	1.172	103.3	0.449	1.683	315.8	545.0	0.927	2.439	-2.31	0.478	86.0	163.1	-7.1	0.156
4-1490	4-1970	0.337	63.8	1.5	-5.66	1.172	103.7	0.451	1.680	314.6	548.9	0.922	2.437	-2.15	0.483	82.8	158.9	-6.6	0.156
4-1490	4-1990	0.346	65.1	1.5	-5.89	1.171	104.2	0.455	1.679	313.1	552.7	0.916	2.442	-2.03	0.490	79.8	155.4	-6.1	0.161
4-1490	4-2010	0.357	66.5	1.7	-6.10	1.172	104.9	0.460	1.681	311.3	556.2	0.907	2.454	-1.93	0.497	77.1	153.0	-5.5	0.170
4-1490	4-2030	0.370	68.1	2.1	-6.29	1.172	105.6	0.467	1.684	309.1	559.4	0.897	2.471	-1.86	0.506	74.5	151.6	-5.0	0.181
4-1490	4-2050	0.385	69.8	2.7	-6.47	1.173	106.6	0.477	1.689	306.8	562.4	0.884	2.494	-1.80	0.515	72.0	151.2	-4.5	0.195
4-1490	4-2070	0.403	71.6	3.5	-6.65	1.174	107.7	0.488	1.695	303.8	565.1	0.868	2.523	-1.77	0.524	69.7	151.8	-4.1	0.212
4-1490	4-2090	0.425	73.7	4.4	-6.82	1.175	109.0	0.501	1.703	300.5	567.5	0.849	2.556	-1.75	0.533	67.4	153.3	-3.7	0.230
4-1490	4-2110	0.450	75.8	5.4	-7.00	1.176	110.5	0.517	1.711	296.9	569.7	0.827	2.595	-1.75	0.543	65.1	155.6	-3.4	0.251
4-1490	4-2130	0.479	78.2	6.4	-7.18	1.178	112.2	0.535	1.720	292.9	571.5	0.800	2.641	-1.77	0.552	62.8	158.5	-3.2	0.275
4-1490	4-2150	0.513	80.7	7.5	-7.37	1.179	114.2	0.556	1.730	288.4	573.0	0.768	2.693	-1.81	0.561	60.4	162.0	-2.9	0.301
4-1490	4-2170	0.552	83.4	8.7	-7.58	1.180	116.5	0.581	1.741	283.4	574.1	0.729	2.752	-1.87	0.570	57.9	166.0	-2.7	0.330
4-1490	4-2190	0.597	86.2	9.8	-7.80	1.182	119.1	0.610	1.752	277.8	574.7	0.684	2.820	-1.96	0.579	55.2	170.6	-2.6	0.362
4-1490	4-2210	0.650	89.4	11.0	-8.05	1.184	122.2	0.643	1.764	271.7	574.8	0.631	2.898	-2.08	0.587	52.2	175.7	-2.4	0.399
4-1490	4-2230	0.712	92.7	12.1	-8.35	1.185	125.8	0.680	1.777	264.9	574.2	0.568	2.986	-2.26	0.595	48.8	181.3	-2.3	0.440
4-1490	4-2250	0.784	96.4	13.2	-8.71	1.187	130.0	0.723	1.791	257.3	573.0	0.496	3.088	-2.50	0.602	45.0	187.4	-2.2	0.488
4-1490	4-2270	0.867	100.5	14.2	-9.16	1.189	134.9	0.771	1.806	248.8	570.9	0.414	3.197	-2.85	0.609	40.5	194.1	-2.1	0.541
4-1490	4-2290	0.963	104.9	15.0	-9.78	1.191	140.6	0.822	1.822	239.3	567.9	0.324	3.319	-3.35	0.615	35.4	201.3	-2.0	0.602
4-1500	4-1700	0.591	72.7	3.5	-8.72	1.353	111.4	0.881	7.305	314.1	474.3	0.872	---	1.71	0.801	141.5	177.5	1.3	0.641
4-1500	4-1720	0.528	72.4	0.3	-9.23	1.307	109.2	0.769	3.845	315.5	480.2	0.890	---	2.20	0.720	137.3	179.6	2.0	0.551
4-1500	4-1740	0.484	72.4	-4.1	-10.18	1.272	107.3	0.684	2.866	317.0	486.3	0.906	---	3.13	0.657	132.8	181.3	3.2	0.477
4-1500	4-1760	0.466	73.6	-11.7	-12.55	1.246	105.7	0.620	2.416	318.5	492.4	0.919	---	5.47	0.607	128.2	182.7	6.3	0.416
4-1500	4-1780	0.655	89.6	-38.4	-29.09	1.227	104.3	0.570	2.165	320.0	498.5	0.930	---	21.99	0.568	123.4	179.2	25.4	0.413
4-1500	4-1800	0.346	60.5	31.5	3.09	1.212	103.3	0.533	2.008	321.2	504.5	0.939	---	-10.21	0.538	118.6	183.6	-14.8	0.329
4-1500	4-1820	0.325	63.5	10.4	-2.94	1.201	102.4	0.503	1.905	322.4	510.4	0.946	---	-4.20	0.516	113.9	184.8	-7.1	0.279
4-1500	4-1840	0.316	64.1	4.1	-4.53	1.193	101.7	0.481	1.835	323.4	516.1	0.952	---	-2.65	0.500	109.2	184.5	-5.1	0.244
4-1500	4-1860	0.309	64.2	0.8	-5.26	1.186	101.2	0.465	1.786	324.1	521.6	0.955	---	-1.94	0.489	104.7	183.3	-4.2	0.216
4-1500	4-1880	0.304	64.4	-1.2	-5.69	1.182	100.9	0.453	1.751	324.5	526.8	0.958	---	-1.53	0.482	100.5	181.3	-3.8	0.193
4-1500	4-1900	0.301	64.6	-2.6	-5.98	1.178	100.7	0.445	1.727	324.6	531.8	0.959	---	-1.27	0.479	96.4	178.3	-3.5	0.175
4-1500	4-1920	0.301	65.0	-3.4	-6.18	1.176	100.7	0.439	1.710	324.5	536.6	0.959	---	-1.09	0.478	92.7	174.5	-3.2	0.162
4-1500	4-1940	0.302	65.7	-3.8	-6.34	1.174	100.8	0.436	1.699	323.9	541.1	0.958	2.441	-0.96	0.481	89.1	170.2	-3.0	0.154
4-1500	4-1960	0.305	66.5	-3.8	-6.47	1.173	101.0	0.436	1.693	323.1	545.4	0.955	2.438	-0.86	0.485	85.9	165.8	-2.8	0.150
4-1500	4-1980	0.310	67.6	-3.6	-6.58	1.173	101.3	0.437	1.690	321.9	549.4	0.951	2.428	-0.79	0.490	82.9	161.6	-2.5	0.151
4-1500	4-2000	0.317	68.8	-3.1	-6.67	1.173	101.8	0.440	1.689	320.4	553.1	0.945	2.433	-0.73	0.497	80.1	158.2	-2.3	0.155
4-1500	4-2020	0.326	70.3	-2.4	-6.75	1.173	102.4	0.445	1.691	318.6	556.7	0.938	2.444	-0.68	0.505	77.5	155.7	-2.1	0.163
4-1500	4-2040	0.337	72.0	-1.5	-6.82	1.174	103.2	0.452	1.695	316.4	559.9	0.930	2.460	-0.65	0.513	75.0	154.3	-1.8	0.174
4-1500	4-2060	0.350	73.8	-0.5	-6.89	1.174	104.1	0.460	1.700	313.9	563.0	0.919	2.481	-0.62	0.522	72.7	154.0	-1.7	0.188
4-1500	4-2080	0.366	75.8	0.7	-6.95	1.175	105.1	0.469	1.706	311.1	565.8	0.905	2.507	-0.60	0.531	70.5	154.6	-1.5	0.203
4-1500	4-2100	0.384	78.0	1.9	-7.01	1.176	106.3	0.481	1.714	307.9	568.3	0.889	2.538	-0.59	0.540	68.4	156.1	-1.3	0.220
4-1500	4-2120	0.406	80.3	3.2	-7.07	1.178	107.7	0.495	1.722	304.3	570.5	0.870	2.575	-0.58	0.549	66.3	158.3	-1.2	0.240
4-1500	4-2140	0.432	82.8	4.6	-7.13	1.179	109.3	0.511	1.731	300.3	572.5	0.846	2.616	-0.58	0.559	64.2	161.1	-1.1	0.261
4-1500	4-2160	0.461	85.5	6.0	-7.19	1.180	111.2	0.530	1.741	295.9	574.1	0.819	2.664	-0.59	0.568	62.1	164.6	-1.0	0.285

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1500	4-2180	0.496	88.3	7.4	-7.26	1.182	113.3	0.552	1.752	291.1	575.4	0.785	2.718	-0.60	0.576	59.9	168.6	-1.0	0.312
4-1500	4-2200	0.536	91.3	8.7	-7.33	1.183	115.7	0.577	1.763	285.7	576.2	0.745	2.781	-0.62	0.584	57.5	173.1	-0.9	0.341
4-1500	4-2220	0.583	94.5	10.1	-7.40	1.185	118.4	0.607	1.775	279.8	576.6	0.698	2.852	-0.65	0.592	54.8	178.0	-0.8	0.374
4-1500	4-2240	0.638	97.9	11.3	-7.49	1.186	121.7	0.641	1.788	273.3	576.4	0.643	2.932	-0.69	0.599	51.9	183.4	-0.8	0.412
4-1500	4-2260	0.701	101.6	12.5	-7.59	1.188	125.4	0.679	1.801	266.1	575.6	0.577	3.024	-0.75	0.606	48.5	189.3	-0.8	0.454
4-1500	4-2280	0.775	105.6	13.5	-7.71	1.190	129.8	0.723	1.815	258.1	574.0	0.502	3.128	-0.83	0.612	44.7	195.7	-0.7	0.502
4-1500	4-2300	0.861	109.9	14.4	-7.86	1.192	134.8	0.772	1.830	249.3	571.7	0.417	3.244	-0.95	0.618	40.2	202.6	-0.7	0.556
4-1510	4-1690	0.611	76.0	9.4	-6.13	1.409	110.7	1.01558	761	318.9	467.3	0.890	---	-1.15	0.892	144.2	178.2	-0.8	0.731
4-1510	4-1710	0.528	75.0	8.2	-5.93	1.348	108.3	0.863	6.614	320.3	473.3	0.908	---	-1.33	0.792	140.3	180.3	-1.1	0.624
4-1510	4-1730	0.463	73.8	7.1	-5.65	1.303	106.2	0.750	3.702	321.9	479.5	0.924	---	-1.58	0.714	136.0	182.3	-1.5	0.537
4-1510	4-1750	0.411	72.2	6.5	-5.24	1.269	104.4	0.666	2.810	323.6	485.8	0.937	---	-1.96	0.652	131.5	184.0	-2.1	0.464
4-1510	4-1770	0.369	70.4	7.0	-4.55	1.245	102.9	0.603	2.389	325.3	492.1	0.949	---	-2.63	0.604	126.9	185.4	-3.2	0.403
4-1510	4-1790	0.333	67.9	10.4	-3.12	1.226	101.6	0.554	2.151	327.0	498.4	0.958	---	-4.03	0.567	122.2	186.4	-5.5	0.352
4-1510	4-1810	0.305	62.9	27.8	1.67	1.212	100.6	0.518	2.002	328.5	504.6	0.966	---	-8.80	0.538	117.4	186.3	-13.3	0.316
4-1510	4-1830	0.845	111.5	-53.9	-43.27	1.201	99.9	0.490	1.903	329.6	510.6	0.971	---	36.17	0.517	112.8	173.0	41.1	0.428
4-1510	4-1850	0.367	74.0	-25.0	-13.24	1.193	99.2	0.469	1.835	330.8	516.5	0.976	---	6.16	0.502	108.2	186.3	12.2	0.243
4-1510	4-1870	0.325	70.6	-18.8	-10.38	1.187	98.7	0.453	1.788	331.6	522.0	0.979	---	3.33	0.492	103.8	185.4	7.6	0.211
4-1510	4-1890	0.307	69.2	-16.4	-9.31	1.182	98.5	0.441	1.755	332.1	527.4	0.980	---	2.29	0.486	99.6	183.3	5.8	0.188
4-1510	4-1910	0.298	68.5	-15.1	-8.74	1.179	98.3	0.433	1.732	332.2	532.4	0.981	---	1.74	0.483	95.7	180.3	4.9	0.170
4-1510	4-1930	0.292	68.4	-14.0	-8.39	1.177	98.3	0.428	1.716	332.0	537.2	0.981	---	1.41	0.484	92.1	176.4	4.3	0.158
4-1510	4-1950	0.290	68.7	-13.0	-8.14	1.175	98.4	0.426	1.706	331.5	541.8	0.980	2.432	1.19	0.486	88.7	172.1	3.9	0.150
4-1510	4-1970	0.290	69.3	-12.0	-7.95	1.174	98.6	0.425	1.700	330.6	546.0	0.978	2.423	1.04	0.491	85.6	167.7	3.5	0.147
4-1510	4-1990	0.292	70.3	-10.8	-7.81	1.174	99.0	0.426	1.698	329.4	550.1	0.974	2.421	0.92	0.496	82.7	163.6	3.1	0.147
4-1510	4-2010	0.296	71.6	-9.5	-7.69	1.174	99.5	0.429	1.698	327.9	553.8	0.970	2.426	0.84	0.503	80.0	160.3	2.7	0.152
4-1510	4-2030	0.302	73.1	-8.0	-7.59	1.174	100.1	0.433	1.700	326.0	557.4	0.964	2.436	0.77	0.511	77.6	157.9	2.4	0.160
4-1510	4-2050	0.310	74.9	-6.5	-7.50	1.175	100.8	0.438	1.704	323.8	560.7	0.957	2.451	0.72	0.520	75.3	156.7	2.1	0.170
4-1510	4-2070	0.321	76.9	-4.8	-7.42	1.176	101.7	0.446	1.710	321.3	563.7	0.948	2.471	0.68	0.528	73.2	156.4	1.9	0.183
4-1510	4-2090	0.334	79.2	-3.1	-7.35	1.177	102.7	0.454	1.716	318.4	566.5	0.937	2.496	0.65	0.537	71.1	157.1	1.7	0.197
4-1510	4-2110	0.349	81.6	-1.4	-7.28	1.178	103.8	0.465	1.724	315.2	569.1	0.923	2.525	0.63	0.547	69.2	158.6	1.5	0.214
4-1510	4-2130	0.368	84.1	0.4	-7.22	1.179	105.1	0.477	1.733	311.7	571.4	0.907	2.559	0.61	0.556	67.3	160.9	1.4	0.232
4-1510	4-2150	0.390	86.9	2.2	-7.15	1.180	106.6	0.491	1.742	307.7	573.4	0.887	2.597	0.60	0.565	65.4	163.8	1.2	0.252
4-1510	4-2170	0.415	89.8	4.0	-7.09	1.182	108.3	0.508	1.752	303.4	575.2	0.863	2.641	0.60	0.573	63.5	167.2	1.1	0.274
4-1510	4-2190	0.446	92.8	5.7	-7.02	1.183	110.3	0.527	1.763	298.6	576.5	0.834	2.691	0.61	0.582	61.5	171.2	1.0	0.298
4-1510	4-2210	0.481	96.0	7.3	-6.96	1.185	112.5	0.549	1.774	293.4	577.5	0.799	2.748	0.62	0.590	59.3	175.6	1.0	0.325
4-1510	4-2230	0.523	99.4	8.9	-6.88	1.186	115.0	0.575	1.786	287.7	578.1	0.758	2.813	0.64	0.597	57.0	180.5	0.9	0.355
4-1510	4-2250	0.571	103.0	10.3	-6.80	1.188	117.9	0.606	1.798	281.4	578.2	0.709	2.887	0.67	0.604	54.4	185.8	0.9	0.388
4-1510	4-2270	0.628	106.7	11.6	-6.71	1.190	121.3	0.641	1.811	274.5	577.8	0.651	2.971	0.72	0.610	51.5	191.5	0.8	0.426
4-1510	4-2290	0.694	110.7	12.7	-6.61	1.191	125.2	0.680	1.825	267.0	576.7	0.583	3.067	0.78	0.616	48.2	197.6	0.8	0.468
4-1510	4-2310	0.770	115.0	13.6	-6.48	1.193	129.7	0.725	1.840	258.7	574.9	0.505	3.174	0.87	0.621	44.3	204.2	0.7	0.517
4-1520	4-1700	0.549	78.3	11.4	-4.71	1.400	107.3	0.99106	908	325.3	466.5	0.926	---	-2.82	0.877	142.9	180.8	-2.1	0.710
4-1520	4-1720	0.470	76.8	10.9	-4.31	1.341	105.0	0.840	5.869	327.0	472.8	0.941	---	-3.15	0.780	138.9	182.8	-2.7	0.606
4-1520	4-1740	0.409	74.8	10.8	-3.80	1.298	103.1	0.729	3.519	328.9	479.3	0.955	---	-3.58	0.705	134.6	184.7	-3.4	0.521
4-1520	4-1760	0.360	72.5	11.6	-3.12	1.266	101.4	0.646	2.731	330.9	485.8	0.966	---	-4.18	0.645	130.1	186.3	-4.6	0.450
4-1520	4-1780	0.321	69.7	13.8	-2.16	1.242	100.0	0.585	2.347	332.8	492.4	0.975	---	-5.07	0.599	125.5	187.5	-6.3	0.392
4-1520	4-1800	0.290	66.3	18.9	-0.65	1.224	98.8	0.538	2.126	334.7	498.9	0.982	---	-6.51	0.563	120.8	188.3	-9.2	0.344
4-1520	4-1820	0.271	61.7	30.4	2.10	1.210	97.8	0.503	1.987	336.4	505.3	0.988	---	-9.18	0.536	116.0	188.2	-14.5	0.307
4-1520	4-1840	0.301	51.7	57.3	8.77	1.200	97.1	0.476	1.894	338.0	511.4	0.992	---	-15.78	0.516	111.4	185.9	-26.0	0.298
4-1520	4-1860	0.827	238.9	67.4	43.03	1.193	96.3	0.456	1.831	339.7	517.4	0.996	---	-49.96	0.502	106.8	165.1	-46.1	0.511
4-1520	4-1880	0.683	101.4	-57.2	-34.70	1.187	96.4	0.443	1.786	339.1	522.9	0.996	---	27.84	0.493	102.7	177.2	42.8	0.331
4-1520	4-1900	0.420	79.7	-42.5	-18.93	1.183	96.0	0.432	1.755	339.9	528.3	0.997	---	12.15	0.488	98.6	182.5	28.2	0.215
4-1520	4-1920	0.349	74.3	-34.5	-14.40	1.180	95.9	0.424	1.734	340.1	533.4	0.998	---	7.70	0.487	94.8	180.7	21.1	0.180
4-1520	4-1940	0.318	72.1	-29.5	-12.26	1.178	95.9	0.420	1.720	339.9	538.2	0.998	---	5.63	0.488	91.3	177.2	17.1	0.162
4-1520	4-1960	0.302	71.3	-25.9	-11.00	1.176	96.0	0.417	1.711	339.3	542.7	0.997	2.424	4.46	0.491	88.0	173.0	14.5	0.152
4-1520	4-1980	0.293	71.4	-22.9	-10.16	1.176	96.3	0.417	1.706	338.4	547.0	0.995	2.416	3.70	0.496	85.1	168.8	12.4	0.148
4-1520	4-2000	0.288	72.0	-20.3	-9.55	1.175	96.7	0.417	1.704	337.1	551.0	0.993	2.415	3.18	0.502	82.3	164.9	10.7	0.148
4-1520	4-2020	0.287	73.2	-17.7	-9.08	1.176	97.2	0.420	1.705	335.5	554.7	0.989	2.420	2.80	0.509	79.8	161.8	9.3	0.152
4-1520	4-2040	0.288	74.7	-15.3	-8.70	1.176	97.8	0.423	1.708	333.6	558.2	0.985	2.431	2.52	0.517	77.5	159.7	8.0	0.159
4-1520	4-2060	0.292	76.7	-12.8	-8.39	1.177	98.5	0.428	1.712	331.4	561.5	0.979	2.446	2.30	0.526	75.4	158.7	6.9	0.169
4-1520	4-2080	0.299	78.9	-10.4	-8.11	1.177	99.3	0.435	1.718	328.8	564.6	0.972	2.465	2.14	0.535	73.4	158.6	6.1	0.181
4-1520	4-2100	0.308	81.4	-7.9	-7.87	1.179	100.3	0.442	1.725	325.9	567.4	0.962	2.488	2.01	0.544	71.5	159.4	5.3	0.195
4-1520	4-2120	0.320	84.1	-5.5	-7.65	1.180	101.4	0.451	1.733	322.6	570.0	0.951	2.515	1.92	0.553	69.7	161.1	4.7	0.210
4-1520	4-2140	0.334	87.0	-3.1	-7.44	1.181	102.6	0.462	1.742	319.1	572.3	0.938	2.547	1.85	0.562	68.0	163.4	4.2	0.227
4-1520	4-2160	0.353	90.1	-0.8	-7.25	1.182	104.1	0.474	1.752	315.1	574.4	0.921	2.583	1.80	0.571	66.2	166.4	3.8	0.246
4-1520	4-2180	0.375	93.4	1.5	-7.05	1.184	105.7	0.489	1.762	310.8	576.2	0.900	2.624	1.77	0.579	64.5	169.8	3.5	0.266
4-1520	4-2200	0.401	96.8	3.6	-6.86	1.185	107.5	0.506	1.773	306.1	577.6	0.876	2.670	1.77	0.587	62.7	173.8	3.2	0.288
4-1520	4-2220	0.432	100.3	5.6	-6.67	1.187	109.5	0.526	1.784	301.0	578.8	0.846	2.723	1.79	0.595	60.8	178.2	3.0	0.313
4-1520	4-2240	0.469	104.0	7.4	-6.46	1.188	111.9	0.549	1.796	295.4	579.5	0.810	2.782	1.82	0.602	58.8	183.0	2.8	0.340
4-1520	4-2260	0.512	107.8	9.0	-6.25	1.190	114.5	0.576	1.809	289.3	579.8	0.767	2.850	1.89	0.608	56.5	188.2	2.6	0.370
4-1520	4-2280	0.562	111.7	10.5	-6.01	1.191	117.6	0.607	1.822	282.7	579.7	0.717	2.927	1.98	0.614	54.0	193.8	2.4	0.404
4-1520	4-2300	0.620	115.8	11.7	-5.74	1.193	121.1	0.642	1.835	275.5	578.9	0.656	3.014	2.12	0.619	51.1	199.8	2.3	0.441
4-1520	4-2320	0.689	120.1	12.7	-5.43	1.195	125.1	0.683	1.850	267.6	577.5	0.586	3.113	2.31	0.623	47.8	206.2	2.2	0.484
4-1530	4-1690	0.586	81.2	13.1	-4.15	1.466	105.9	1.170	-5.571	330.6	460.0	0.945	---	-3.74	0.978	145.3	181.2	-2.6	0.810
4-1530	4-1710	0.490	79.4	12.7	-3.73	1.389	103.6	0.96023	940	332.3	466.3	0.958	---	-4.01	0.858	141.6	183.2	-3.1	0.685
4-1530	4-1730	0.417	77.1	12.6	-3.25	1.333	101.5	0.811	5.146	334.3	472.8	0.970	---	-4.36	0.765	137.5	185.1	-3.9	0.584
4-1530	4-1750	0.360	74.2	13.1	-2.67	1.292	99.7	0.704	3.310	336.5	479.6	0.980	---	-4.82	0.692	133.2	186.8	-4.8	0.502
4-1530	4-1770	0.317	70.9	14.5	-1.94	1.261	98.2	0.625	2.634	338.7	486.4	0.988	---	-5.41	0.635	128.6	188.2	-6.2	0.434
4-1530	4-1790	0.283	67.1	17.4	-1.00	1.239	96.9	0.566	2.292	340.9	493.3	0.995	---	-6.23	0.591	123.9	189.3	-8.1	0.378
4-1530	4-1810	0.258	62.8	22.5	0.29	1.222	95.8	0.522	2.091	343.0	500.0	1.000	---	-7.40	0.558	119.2	189.8	-10.9	0.332
4-1530	4-1830	0.243	57.5	31.4	2.22	1.209	95.0	0.489	1.964	344.9	506.5	1.004	---	-9.20	0.532	114.5	189.7	-15.2	0.296
4-1530	4-1850	0.249	49.7	46.5	5.44	1.199	94.3	0.464	1.879	346.5	512.8	1.006	---	-12.30	0.514	109.9	188.4	-22.1	0.274

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1530	4-1870	0.313	29.1	69.2	11.96	1.192	93.7	0.446	1.821	347.9	518.8	1.008	---	-18.70	0.502	105.4	184.5	-33.5	0.281
4-1530	4-1890	0.620	265.2	72.3	31.37	1.187	93.2	0.433	1.780	349.3	524.6	1.010	---	-37.99	0.494	101.2	171.8	-47.5	0.405
4-1530	4-1910	1.308	166.3	-63.9	-73.56	1.183	94.1	0.425	1.752	346.3	529.5	1.006	---	67.06	0.490	97.6	160.5	45.1	0.632
4-1530	4-1930	0.617	94.6	-60.4	-31.35	1.180	93.6	0.418	1.733	347.9	534.7	1.008	---	24.98	0.489	93.8	175.2	45.8	0.287
4-1530	4-1950	0.436	79.8	-49.6	-20.70	1.179	93.5	0.414	1.720	347.9	539.5	1.008	---	14.46	0.491	90.3	175.8	36.8	0.205
4-1530	4-1970	0.365	75.0	-42.1	-16.22	1.178	93.7	0.411	1.712	347.3	544.0	1.008	2.417	10.12	0.495	87.2	172.8	29.9	0.174
4-1530	4-1990	0.328	73.2	-36.4	-13.76	1.177	94.0	0.411	1.709	346.3	548.2	1.007	2.411	7.79	0.500	84.4	169.1	24.7	0.161
4-1530	4-2010	0.307	73.0	-31.8	-12.18	1.177	94.4	0.412	1.708	345.0	552.1	1.005	2.411	6.35	0.507	81.8	165.6	20.7	0.157
4-1530	4-2030	0.295	73.7	-27.7	-11.07	1.177	94.9	0.414	1.710	343.3	555.8	1.003	2.417	5.39	0.514	79.4	162.9	17.4	0.159
4-1530	4-2050	0.288	75.1	-24.0	-10.23	1.178	95.5	0.417	1.714	341.3	559.3	0.999	2.420	4.70	0.523	77.2	161.1	14.8	0.164
4-1530	4-2070	0.285	77.1	-20.4	-9.57	1.178	96.2	0.421	1.719	339.0	562.5	0.995	2.443	4.20	0.531	75.2	160.3	12.6	0.172
4-1530	4-2090	0.286	79.5	-17.0	-9.02	1.179	97.0	0.426	1.725	336.3	565.5	0.990	2.461	3.82	0.540	73.4	160.5	10.9	0.183
4-1530	4-2110	0.290	82.3	-13.7	-8.55	1.180	98.0	0.433	1.733	333.4	568.3	0.983	2.484	3.53	0.549	71.6	161.6	9.5	0.195
4-1530	4-2130	0.297	85.4	-10.5	-8.14	1.182	99.0	0.441	1.742	330.1	570.9	0.974	2.510	3.31	0.558	70.0	163.4	8.3	0.210
4-1530	4-2150	0.307	88.8	-7.4	-7.76	1.183	100.3	0.450	1.751	326.5	573.2	0.963	2.540	3.14	0.567	68.4	165.8	7.4	0.225
4-1530	4-2170	0.321	92.4	-4.4	-7.42	1.184	101.6	0.461	1.761	322.5	575.3	0.949	2.573	3.02	0.576	66.9	168.9	6.6	0.242
4-1530	4-2190	0.339	96.1	-1.5	-7.09	1.186	103.1	0.474	1.772	318.2	577.1	0.932	2.612	2.94	0.584	65.3	172.4	6.0	0.261
4-1530	4-2210	0.361	100.0	1.1	-6.77	1.187	104.9	0.489	1.783	313.5	578.7	0.911	2.655	2.90	0.592	63.7	176.4	5.5	0.282
4-1530	4-2230	0.388	103.9	3.5	-6.45	1.189	106.8	0.506	1.795	308.4	579.9	0.886	2.703	2.89	0.599	62.0	180.8	5.0	0.304
4-1530	4-2250	0.420	108.0	5.7	-6.13	1.190	109.0	0.527	1.807	302.9	580.8	0.855	2.758	2.92	0.606	60.2	185.6	4.7	0.329
4-1530	4-2270	0.458	112.2	7.6	-5.79	1.192	111.4	0.550	1.819	297.0	581.2	0.818	2.820	2.98	0.612	58.3	190.7	4.4	0.356
4-1530	4-2290	0.503	116.4	9.2	-5.43	1.194	114.2	0.578	1.832	290.6	581.3	0.774	2.891	3.09	0.617	56.0	196.2	4.1	0.386
4-1530	4-2310	0.555	120.7	10.6	-5.04	1.195	117.4	0.609	1.846	283.6	580.8	0.721	2.970	3.25	0.622	53.5	202.1	3.9	0.420
4-1530	4-2330	0.616	125.1	11.6	-4.60	1.197	121.0	0.646	1.860	276.1	579.8	0.659	3.061	3.47	0.626	50.7	208.3	3.7	0.457
4-1540	4-1680	0.642	83.0	14.1	-3.90	1.553	104.0	1.423	-2.278	336.2	453.7	0.963	---	-4.44	1.103	147.4	181.5	-2.8	0.932
4-1540	4-1700	0.523	81.2	13.7	-3.48	1.449	101.7	1.124	-7.848	337.9	460.0	0.974	---	-4.64	0.952	144.0	183.5	-3.3	0.778
4-1540	4-1720	0.435	78.5	13.5	-3.02	1.376	99.6	0.921	12.533	339.9	486.6	0.984	---	-4.90	0.836	140.2	185.4	-4.0	0.658
4-1540	4-1740	0.369	75.1	13.8	-2.50	1.323	97.7	0.779	4.489	342.3	473.5	0.993	---	-5.23	0.747	136.0	187.1	-4.8	0.561
4-1540	4-1760	0.319	71.0	14.6	-1.90	1.284	96.1	0.676	3.088	344.8	480.6	0.999	---	-5.65	0.677	131.8	188.6	-5.9	0.482
4-1540	4-1780	0.282	66.5	16.4	-1.18	1.256	94.7	0.602	2.523	347.4	487.8	1.004	---	-6.18	0.623	127.0	189.8	-7.4	0.416
4-1540	4-1800	0.255	61.5	19.3	-0.31	1.235	93.6	0.547	2.225	349.8	494.9	1.008	---	-6.88	0.581	122.3	190.7	-9.3	0.363
4-1540	4-1820	0.236	56.1	24.1	0.81	1.219	92.7	0.507	2.048	352.1	501.8	1.010	---	-7.82	0.550	117.5	191.0	-12.0	0.318
4-1540	4-1840	0.226	50.1	31.2	2.30	1.207	91.9	0.477	1.934	354.1	508.5	1.012	---	-9.13	0.527	112.8	190.6	-15.8	0.283
4-1540	4-1860	0.228	42.6	41.4	4.43	1.198	91.3	0.455	1.858	355.7	514.8	1.013	---	-11.09	0.510	108.2	189.4	-21.1	0.259
4-1540	4-1880	0.252	30.8	55.3	7.77	1.191	90.9	0.439	1.806	357.0	520.8	1.013	---	-14.27	0.499	103.8	186.8	-28.7	0.248
4-1540	4-1900	0.329	0.7	70.6	13.84	1.187	90.6	0.427	1.769	358.0	526.5	1.013	---	-20.17	0.493	99.7	181.9	-38.9	0.267
4-1540	4-1920	0.558	282.9	70.4	27.95	1.183	90.3	0.419	1.745	358.9	531.9	1.014	---	-34.10	0.490	95.8	172.5	-48.7	0.364
4-1540	4-1960	0.903	123.7	-72.6	-48.28	1.179	91.4	0.410	1.717	355.1	540.9	1.013	2.422	42.47	0.493	89.3	168.6	50.7	0.430
4-1540	4-1980	0.561	85.7	-61.3	-28.26	1.179	91.4	0.408	1.712	355.2	545.4	1.013	2.411	22.63	0.498	86.3	171.0	46.8	0.262
4-1540	4-2000	0.430	76.9	-51.9	-20.55	1.178	91.6	0.408	1.710	354.3	549.6	1.012	2.407	15.10	0.504	83.5	168.9	39.4	0.205
4-1540	4-2020	0.366	74.0	-44.7	-16.56	1.178	92.0	0.409	1.710	353.0	553.4	1.011	2.409	11.31	0.511	81.0	166.1	32.7	0.183
4-1540	4-2040	0.329	73.5	-38.8	-14.12	1.179	92.6	0.410	1.713	351.2	557.0	1.010	2.416	9.05	0.519	78.8	163.8	27.2	0.175
4-1540	4-2060	0.307	74.4	-33.6	-12.44	1.180	93.2	0.413	1.718	349.1	560.4	1.008	2.427	7.58	0.528	76.8	162.3	22.7	0.176
4-1540	4-2080	0.293	76.2	-28.9	-11.21	1.180	93.9	0.417	1.724	346.7	563.6	1.006	2.442	6.56	0.536	74.9	161.9	19.1	0.181
4-1540	4-2100	0.285	78.8	-24.4	-10.24	1.181	94.7	0.421	1.731	344.0	566.6	1.002	2.461	5.81	0.546	73.2	162.3	16.2	0.189
4-1540	4-2120	0.282	81.8	-20.2	-9.45	1.183	95.7	0.427	1.740	340.9	569.3	0.997	2.483	5.26	0.555	71.6	163.6	14.0	0.200
4-1540	4-2140	0.282	85.3	-16.1	-8.79	1.184	96.7	0.434	1.749	337.6	571.9	0.990	2.508	4.84	0.564	70.1	165.6	12.2	0.213
4-1540	4-2160	0.287	89.2	-12.2	-8.20	1.185	97.9	0.442	1.759	333.9	574.2	0.982	2.536	4.53	0.573	68.6	168.2	10.7	0.227
4-1540	4-2180	0.296	93.3	-8.5	-7.68	1.187	99.3	0.451	1.770	329.9	576.3	0.971	2.568	4.29	0.581	67.2	171.3	9.5	0.242
4-1540	4-2200	0.309	97.7	-5.0	-7.19	1.188	100.7	0.462	1.781	325.5	578.1	0.957	2.604	4.12	0.589	65.8	175.0	8.6	0.260
4-1540	4-2220	0.327	102.2	-1.8	-6.73	1.190	102.4	0.475	1.792	320.9	579.7	0.940	2.644	4.01	0.597	64.4	179.0	7.8	0.278
4-1540	4-2240	0.349	106.8	1.1	-6.29	1.191	104.2	0.491	1.804	315.8	580.9	0.919	2.689	3.95	0.604	62.9	183.5	7.1	0.299
4-1540	4-2260	0.377	111.4	3.7	-5.85	1.193	106.2	0.508	1.817	310.4	581.9	0.893	2.740	3.93	0.610	61.4	188.2	6.6	0.321
4-1540	4-2280	0.410	116.1	6.0	-5.41	1.194	108.5	0.529	1.830	304.6	582.5	0.862	2.797	3.97	0.616	59.6	193.4	6.1	0.345
4-1540	4-2300	0.450	120.7	7.8	-4.94	1.196	111.1	0.553	1.843	298.3	582.7	0.824	2.862	4.06	0.621	57.7	198.8	5.7	0.372
4-1540	4-2320	0.496	125.4	9.3	-4.45	1.198	114.0	0.581	1.857	291.6	582.5	0.778	2.935	4.21	0.625	55.5	204.5	5.4	0.402
4-1540	4-2340	0.550	130.0	10.5	-3.91	1.200	117.3	0.613	1.871	284.4	581.8	0.724	3.018	4.43	0.628	53.0	210.6	5.1	0.436
4-1550	4-1690	0.575	81.8	14.2	-3.42	1.528	99.3	1.354	-2.794	343.8	454.0	0.989	---	-5.19	1.066	146.2	183.7	-3.5	0.891
4-1550	4-1710	0.467	78.8	14.0	-2.96	1.431	97.3	1.069	14.428	345.9	460.7	0.996	---	-5.37	0.921	142.6	185.5	-4.0	0.743
4-1550	4-1730	0.389	74.9	14.0	-2.47	1.362	95.4	0.877	8.135	348.4	467.7	1.002	---	-5.59	0.810	138.7	187.2	-4.8	0.628
4-1550	4-1750	0.332	70.0	14.5	-1.93	1.312	93.8	0.743	3.914	351.1	475.1	1.007	---	-5.87	0.725	134.5	188.7	-5.7	0.535
4-1550	4-1770	0.291	64.6	15.5	-1.33	1.276	92.3	0.648	2.865	354.0	482.5	1.010	---	-6.23	0.659	130.0	190.0	-6.9	0.459
4-1550	4-1790	0.261	58.8	17.2	-0.64	1.249	91.1	0.579	2.403	356.9	490.0	1.011	---	-6.68	0.608	125.3	191.0	-8.4	0.397
4-1550	4-1810	0.242	52.8	20.0	0.17	1.230	90.2	0.530	2.151	359.6	497.3	1.012	---	-7.26	0.569	120.5	191.5	-10.3	0.345
4-1550	4-1830	0.229	46.8	23.9	1.15	1.215	89.4	0.494	1.998	1.9	144.4	---	---	-8.01	0.540	115.6	191.6	-12.9	0.303
4-1550	4-1850	0.224	40.7	29.3	2.37	1.204	88.7	0.467	1.898	3.9	151.1	---	---	-9.01	0.519	110.9	190.9	-16.3	0.270
4-1550	4-1870	0.226	34.1	36.5	3.97	1.196	88.3	0.448	1.831	5.5	157.4	---	---	-10.39	0.505	106.4	189.4	-20.9	0.245
4-1550	4-1890	0.239	25.8	45.7	6.18	1.190	88.0	0.435	1.786	6.7	163.4	---	---	-12.38	0.496	102.0	186.9	-26.8	0.231
4-1550	4-1910	0.273	12.8	56.7	9.50	1.186	87.8	0.425	1.755	7.5	168.9	---	---	-15.49	0.491	98.0	183.1	-34.2	0.231
4-1550	4-1930	0.349	345.7	66.9	15.10	1.183	87.7	0.418	1.734	7.9	174.1	---	---	-20.87	0.490	94.2	177.9	-42.5	0.257
4-1550	4-1950	0.533	295.5	67.2	26.41	1.181	87.6	0.414	1.720	8.3	179.0	---	---	-31.96	0.491	90.7	171.3	-49.6	0.341
4-1550	4-1970	1.028	260.1	48.5	55.69	1.180	87.3	0.411	1.712	9.4	183.8	---	2.417	-61.02	0.495	87.3	165.6	-47.5	0.586
4-1550	4-1990	1.220	178.9	-76.9	-67.83	1.180	89.6	0.408	1.708	1.3	186.8	---	2.405	62.72	0.500	85.4	168.4	47.1	0.604
4-1550	4-2010	0.710	91.2	-70.6	-36.91	1.180	89.5	0.408	1.708	1.9	191.1	---	2.405	32.03	0.507	82.6	169.4	50.6	0.345
4-1550	4-2030	0.507	77.2	-59.2	-25.08	1.180	89.8	0.408	1.710	0.8	194.9	---	2.409	20.43	0.515	80.2	167.2	44.9	0.251
4-1550	4-2050	0.410	73.6	-50.6	-19.28	1.181	90.3	0.410	1.714	359.1	558.4	1.012	2.417	14.87	0.523	78.0	165.1	37.9	0.214
4-1550	4-2070	0.355	73.2	-43.7	-15.86	1.181	90.9	0.412	1.720	356.9	561.7	1.011	2.429	11.70	0.532	76.1	163.8	31.5	0.200
4-1550	4-2090	0.321	74.5	-37.6	-13.59	1.182	91.6	0.415	1.728	354.4	564.8	1.010	2.445	9.68	0.541	74.4	163.5	26.3	0.198
4-1550	4-2110	0.300	76.8	-32.2	-11.94	1.184	92.5	0.419	1.736	351.6	567.7	1.009	2.463	8.29	0.550	72.8	164.1	22.1	0.202
4-1550	4-2130	0.286	80.0	-27.1	-10.67	1.185	93.4	0.424	1.745	348.5	570.4	1.006	2.485	7.31	0.560	71.3	165.6	18.8	0.209

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1580	4-1740	0.408	56.7	13.5	-1.88	1.363	82.4	0.869	7.502	16.3	108.9	---	---	-6.80	0.804	138.8	188.9	-5.7	0.628
4-1580	4-1760	0.368	49.9	13.5	-1.33	1.310	81.4	0.730	3.619	20.5	117.6	---	---	-6.84	0.711	134.4	189.8	-6.6	0.529
4-1580	4-1780	0.344	43.6	13.7	-0.77	1.272	80.5	0.637	2.673	24.6	126.3	---	---	-6.94	0.641	129.5	190.4	-7.6	0.450
4-1580	4-1800	0.330	38.2	14.3	-0.18	1.245	79.7	0.575	2.260	28.3	134.7	---	---	-7.08	0.587	124.5	190.6	-8.9	0.386
4-1580	4-1820	0.322	33.7	15.2	0.44	1.225	79.2	0.532	2.037	31.5	142.6	---	---	-7.28	0.548	119.3	190.4	-10.5	0.333
4-1580	4-1840	0.318	30.0	16.6	1.10	1.211	78.7	0.503	1.904	34.1	149.9	---	---	-7.54	0.519	114.1	189.6	-12.3	0.291
4-1580	4-1860	0.316	26.9	18.4	1.83	1.201	78.5	0.482	1.820	36.1	156.5	---	---	-7.88	0.499	109.0	188.2	-14.6	0.257
4-1580	4-1880	0.315	24.4	20.7	2.64	1.194	78.3	0.468	1.764	37.3	162.6	---	---	-8.32	0.486	104.2	186.1	-17.2	0.230
4-1580	4-1900	0.315	22.2	23.6	3.57	1.189	78.3	0.458	1.728	38.1	168.1	---	---	-8.89	0.479	99.7	183.2	-20.2	0.211
4-1580	4-1920	0.316	20.0	27.1	4.65	1.185	78.4	0.450	1.705	38.2	173.2	---	---	-9.62	0.477	95.5	179.7	-23.6	0.198
4-1580	4-1940	0.320	17.6	31.5	5.95	1.183	78.6	0.445	1.690	38.0	177.9	---	---	-10.59	0.477	91.7	175.9	-27.1	0.192
4-1580	4-1960	0.327	14.6	36.7	7.59	1.182	78.8	0.440	1.683	37.3	182.2	---	2.424	-11.88	0.481	88.2	172.0	-30.8	0.193
4-1580	4-1980	0.342	10.2	42.9	9.72	1.182	79.2	0.437	1.680	36.3	186.3	---	2.415	-13.68	0.487	85.2	168.6	-34.6	0.202
4-1580	4-2000	0.370	3.0	49.9	12.67	1.182	79.6	0.435	1.681	35.0	190.1	---	2.412	-16.31	0.494	82.4	166.1	-38.6	0.220
4-1580	4-2020	0.424	349.7	57.0	17.10	1.182	80.0	0.434	1.685	33.5	193.6	---	2.415	-20.41	0.502	80.0	165.0	-42.8	0.254
4-1580	4-2040	0.533	326.2	60.9	24.53	1.183	80.5	0.433	1.691	31.9	197.0	---	2.423	-27.50	0.512	77.8	166.2	-47.0	0.316
4-1580	4-2060	0.769	297.2	55.8	39.04	1.184	80.9	0.434	1.699	30.6	200.3	---	2.435	-41.69	0.521	75.8	171.1	-49.2	0.444
4-1580	4-2100	1.166	350.1	-85.3	-63.64	1.187	84.8	0.424	1.718	17.6	205.3	---	2.446	61.68	0.541	73.7	183.7	46.5	0.631
4-1580	4-2120	0.731	63.4	-69.5	-37.41	1.189	85.1	0.427	1.730	16.6	208.3	---	2.467	35.79	0.552	72.1	177.4	48.1	0.412
4-1580	4-2140	0.525	68.0	-56.7	-25.38	1.191	85.8	0.429	1.742	14.1	210.9	---	2.488	24.11	0.562	70.8	174.1	42.3	0.322
4-1580	4-2160	0.416	71.0	-47.1	-18.94	1.192	86.7	0.431	1.754	10.9	213.4	---	2.510	18.04	0.571	69.7	173.9	35.6	0.285
4-1580	4-2180	0.351	74.7	-39.1	-14.96	1.194	87.8	0.433	1.767	7.4	215.7	---	2.533	14.44	0.581	68.7	175.5	29.7	0.272
4-1580	4-2200	0.309	79.3	-32.2	-12.23	1.196	89.0	0.436	1.781	3.4	217.8	---	2.558	12.10	0.589	67.8	178.2	25.1	0.270
4-1580	4-2220	0.281	84.9	-25.8	-10.21	1.198	90.2	0.440	1.795	359.2	579.7	1.004	2.585	10.49	0.597	66.9	181.5	21.5	0.274
4-1580	4-2240	0.262	91.5	-19.9	-8.62	1.199	91.6	0.446	1.809	354.7	581.4	1.003	2.615	9.35	0.605	66.1	185.4	18.6	0.281
4-1580	4-2260	0.252	98.8	-14.3	-7.33	1.201	93.1	0.452	1.823	349.9	583.0	1.000	2.647	8.51	0.612	65.3	189.6	16.4	0.291
4-1580	4-2280	0.250	106.8	-9.0	-6.22	1.203	94.7	0.459	1.838	344.9	584.3	0.993	2.682	7.89	0.618	64.4	194.2	14.6	0.304
4-1580	4-2300	0.255	115.1	-4.4	-5.25	1.205	96.5	0.469	1.853	339.5	585.4	0.984	2.721	7.45	0.623	63.5	199.1	13.2	0.317
4-1580	4-2320	0.268	123.5	-0.5	-4.37	1.207	98.4	0.480	1.868	333.9	586.2	0.971	2.764	7.13	0.627	62.6	204.2	12.0	0.332
4-1580	4-2340	0.288	131.6	2.6	-3.54	1.208	100.4	0.493	1.883	328.0	586.7	0.954	2.811	6.92	0.631	61.5	209.5	11.0	0.349
4-1580	4-2360	0.315	139.3	4.9	-2.76	1.210	102.7	0.509	1.898	321.8	587.0	0.932	2.864	6.81	0.634	60.3	215.0	10.2	0.367
4-1580	4-2380	0.349	146.3	6.4	-1.99	1.212	105.1	0.528	1.913	315.3	587.0	0.904	2.922	6.79	0.636	58.9	220.8	9.6	0.387
4-1590	4-1710	0.580	62.0	13.7	-2.77	1.510	78.5	1.274-3.525		20.6	96.5	---	---	-7.28	1.031	146.0	187.0	-4.8	0.866
4-1590	4-1730	0.495	55.3	13.4	-2.18	1.408	77.7	0.98564.019		24.8	105.3	---	---	-7.16	0.874	142.1	188.0	-5.4	0.709
4-1590	4-1750	0.443	48.7	13.1	-1.61	1.338	76.9	0.805	4.846	29.5	114.5	---	---	-7.09	0.758	137.7	188.7	-6.1	0.590
4-1590	4-1770	0.413	42.8	13.1	-1.04	1.290	76.2	0.690	3.007	34.1	123.7	---	---	-7.06	0.671	133.0	189.2	-7.0	0.496
4-1590	4-1790	0.396	37.8	13.4	-0.47	1.256	75.6	0.615	2.389	38.4	132.6	---	---	-7.08	0.606	127.8	189.4	-8.0	0.422
4-1590	4-1810	0.385	33.8	14.0	0.12	1.233	75.1	0.566	2.092	42.0	140.9	---	---	-7.15	0.558	122.5	189.1	-9.3	0.362
4-1590	4-1830	0.379	30.7	14.8	0.72	1.216	74.8	0.532	1.924	44.9	148.4	---	---	-7.27	0.522	117.0	188.3	-10.8	0.314
4-1590	4-1850	0.375	28.2	16.0	1.35	1.203	74.6	0.509	1.822	47.0	155.3	---	---	-7.44	0.498	111.6	186.9	-12.6	0.275
4-1590	4-1870	0.372	26.2	17.6	2.03	1.195	74.5	0.493	1.757	48.4	161.4	---	---	-7.68	0.481	106.4	184.8	-14.6	0.244
4-1590	4-1890	0.369	24.6	19.5	2.76	1.189	74.5	0.482	1.715	49.1	167.0	---	---	-8.00	0.472	101.5	182.1	-16.9	0.221
4-1590	4-1910	0.367	23.3	21.8	3.58	1.185	74.7	0.473	1.688	49.3	172.1	---	---	-8.41	0.468	97.0	178.8	-19.4	0.204
4-1590	4-1930	0.365	22.1	24.6	4.50	1.183	74.9	0.467	1.672	49.0	176.7	---	---	-8.94	0.468	92.9	175.1	-22.0	0.194
4-1590	4-1950	0.364	20.8	27.9	5.57	1.182	75.2	0.462	1.664	48.3	181.0	---	2.432	-9.63	0.471	89.2	171.4	-24.6	0.189
4-1590	4-1970	0.365	19.3	31.9	6.85	1.181	75.6	0.458	1.661	47.2	184.9	---	2.420	-10.54	0.476	85.9	167.9	-27.2	0.190
4-1590	4-1990	0.370	17.1	36.7	8.43	1.181	76.1	0.454	1.662	45.8	188.7	---	2.416	-11.78	0.483	82.9	165.1	-29.9	0.196
4-1590	4-2010	0.381	13.7	42.4	10.47	1.182	76.7	0.451	1.666	44.1	192.2	---	2.418	-13.44	0.492	80.3	163.2	-32.8	0.208
4-1590	4-2030	0.403	7.8	49.0	13.26	1.183	77.2	0.449	1.672	42.2	195.5	---	2.424	-15.88	0.502	78.1	162.5	-36.1	0.228
4-1590	4-2050	0.448	356.9	55.8	17.36	1.184	77.9	0.447	1.681	40.1	198.6	---	2.433	-19.63	0.512	76.1	163.3	-40.0	0.260
4-1590	4-2070	0.540	336.6	60.5	24.05	1.186	78.5	0.446	1.691	37.9	201.6	---	2.446	-25.96	0.522	74.3	166.1	-44.3	0.315
4-1590	4-2090	0.739	308.6	57.6	36.63	1.187	79.1	0.446	1.702	36.0	204.5	---	2.462	-38.18	0.533	72.7	172.7	-47.7	0.425
4-1590	4-2150	0.785	56.3	-69.0	-40.25	1.193	83.7	0.436	1.741	20.7	211.8	---	2.500	39.78	0.564	69.9	183.7	47.5	0.460
4-1590	4-2170	0.546	66.8	-55.4	-26.23	1.195	84.5	0.438	1.755	18.0	214.2	---	2.523	26.15	0.574	68.9	179.6	42.0	0.353
4-1590	4-2190	0.423	71.6	-45.1	-18.96	1.197	85.6	0.439	1.769	14.6	216.5	---	2.547	19.26	0.584	68.0	179.4	35.1	0.310
4-1590	4-2210	0.351	76.3	-36.6	-14.56	1.199	86.7	0.442	1.784	10.7	218.5	---	2.572	15.27	0.592	67.2	181.4	29.2	0.294
4-1590	4-2230	0.305	81.7	-29.2	-11.60	1.201	88.0	0.444	1.799	6.4	220.4	---	2.598	12.72	0.601	66.5	184.4	24.6	0.291
4-1590	4-2250	0.274	88.1	-22.6	-9.43	1.202	89.4	0.448	1.814	1.9	222.1	---	2.627	10.98	0.608	65.8	188.2	21.1	0.294
4-1590	4-2270	0.254	95.6	-16.5	-7.75	1.204	90.9	0.453	1.829	357.1	583.6	1.001	2.657	9.76	0.615	65.1	192.4	18.3	0.301
4-1590	4-2290	0.243	104.0	-10.8	-6.37	1.206	92.5	0.459	1.845	352.0	584.9	0.998	2.691	8.87	0.620	64.4	197.0	16.1	0.310
4-1590	4-2310	0.240	113.1	-5.7	-5.21	1.208	94.2	0.466	1.860	346.7	586.0	0.993	2.728	8.22	0.625	63.6	201.9	14.4	0.322
4-1590	4-2330	0.247	122.6	-1.4	-4.19	1.210	96.1	0.475	1.876	341.1	586.8	0.984	2.768	7.75	0.630	62.8	207.0	13.0	0.335
4-1590	4-2350	0.261	131.9	2.1	-3.27	1.212	98.1	0.487	1.892	335.2	587.4	0.971	2.812	7.42	0.633	61.9	212.3	11.9	0.349
4-1590	4-2370	0.282	140.8	4.5	-2.42	1.214	100.2	0.500	1.907	329.1	587.8	0.954	2.861	7.20	0.635	60.9	217.8	11.0	0.365
4-1590	4-2390	0.311	149.0	6.1	-1.60	1.215	102.5	0.516	1.923	322.7	587.8	0.932	2.915	7.09	0.637	59.7	223.4	10.2	0.382
4-1600	4-1720	0.618	54.8	13.5	-2.61	1.468	71.9	1.137-6.635		34.0	102.4	---	---	-7.67	0.964	145.8	186.7	-5.1	0.814
4-1600	4-1740	0.546	48.6	13.2	-1.97	1.375	71.5	0.900	8.879	39.2	112.1	---	---	-7.46	0.817	141.6	187.3	-5.7	0.666
4-1600	4-1760	0.504	43.2	13.0	-1.35	1.313	71.1	0.755	3.574	44.4	121.9	---	---	-7.30	0.709	136.8	187.7	-6.4	0.553
4-1600	4-1780	0.479	38.7	13.2	-0.76	1.270	70.7	0.664	2.566	49.1	131.2	---	---	-7.20	0.628	131.6	187.7	-7.3	0.466
4-1600	4-1800	0.464	35.1	13.5	-0.18	1.241	70.4	0.607	2.155	53.1	139.9	---	---	-7.14	0.589	126.1	187.4	-8.3	0.396
4-1600	4-1820	0.454	32.4	14.2	0.41	1.220	70.2	0.569	1.942	56.3	147.6	---	---	-7.13	0.525	120.4	186.5	-9.5	0.341
4-1600	4-1840	0.446	30.3	15.0	1.00	1.205	70.2	0.543	1.819	58.5	154.6	---	---	-7.17	0.495	114.6	185.0	-10.9	0.297
4-1600	4-1860	0.441	28.7	16.2	1.60	1.195	70.2	0.526	1.743	60.0	160.8	---	---	-7.26	0.474	109.0	183.0	-12.5	0.262
4-1600	4-1880	0.435	27.6	17.5	2.24	1.189	70.3	0.513	1.695	60.7	166.3	---	---	-7.40	0.462	103.6	180.3	-14.2	0.235
4-1600	4-1900	0.430	26.7	19.2	2.91	1.184	70.6	0.503	1.665	60.8	171.3	---	---	-7.61	0.456	98.6	177.1	-16.1	0.215
4-1600	4-1920	0.425	26.1	21.1	3.64	1.182	70.9	0.496	1.648	60.4	175.8	---	---	-7.89	0.455	94.1	173.5	-18.0	0.202
4-1600	4-1940	0.420	25.5	23.3	4.44	1.180	71.3	0.489	1.638	59.6	180.0	---	---	-8.27	0.457	90.0	169.9	-19.9	0.194
4-1600	4-1960	0.415	25.0	26.0	5.34	1.180	71.8	0.484	1.635	58.4	183.8	---	2.427	-8.76	0.463	86.4	166.5	-21.7	0.191
4-1600	4-1980	0.412	24.3	29.1	6.37	1.180	72.3	0.480	1.637	56.9	187.4	---	2.422	-9.40	0.470	83.3	163.7	-23.4	0.192
4-1600	4-2000	0.410	23.4	32.8	7.60	1.181	73.0	0.476	1.642	55.1	190.8	---	2.422	-10.24	0.479	80.5	161.6	-25.2	0.197

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1600	4-2020	0.411	21.9	37.3	9.11	1.182	73.6	0.472	1.649	53.1	194.0	---	2.427	-11.37	0.489	78.1	160.5	-27.3	0.206
4-1600	4-2040	0.417	19.3	42.5	11.05	1.183	74.3	0.469	1.659	50.8	197.1	---	2.436	-12.93	0.500	76.0	160.3	-29.7	0.219
4-1600	4-2060	0.434	14.7	48.7	13.65	1.185	75.1	0.466	1.670	48.4	200.0	---	2.447	-15.16	0.511	74.2	161.2	-32.6	0.239
4-1600	4-2080	0.471	5.6	55.3	17.43	1.187	75.9	0.463	1.682	45.8	202.9	---	2.461	-18.58	0.523	72.6	163.3	-36.4	0.268
4-1600	4-2100	0.548	347.8	60.7	23.48	1.189	76.7	0.461	1.695	43.2	205.6	---	2.477	-24.25	0.534	71.2	167.4	-41.0	0.317
4-1600	4-2120	0.716	320.1	59.8	34.59	1.191	77.5	0.460	1.709	40.7	208.2	---	2.496	-34.99	0.545	69.9	174.8	-45.5	0.412
4-1600	4-2140	1.103	298.4	45.9	58.62	1.193	77.9	0.462	1.724	39.1	210.7	---	2.519	-58.65	0.556	68.6	188.1	-45.3	0.623
4-1600	4-2180	0.823	51.9	-66.9	-42.12	1.197	82.5	0.446	1.754	24.4	214.9	---	2.537	42.84	0.577	68.0	190.5	46.6	0.501
4-1600	4-2200	0.554	67.1	-52.9	-26.32	1.199	83.4	0.448	1.770	21.5	217.1	---	2.563	27.43	0.586	67.2	185.6	41.1	0.379
4-1600	4-2220	0.421	73.5	-41.8	-18.40	1.201	84.5	0.449	1.786	17.7	219.1	---	2.588	19.90	0.595	66.5	185.5	34.0	0.332
4-1600	4-2240	0.345	79.1	-32.7	-13.72	1.203	85.8	0.451	1.802	13.5	221.0	---	2.614	15.63	0.603	65.9	187.8	28.1	0.315
4-1600	4-2260	0.297	85.3	-25.0	-10.61	1.205	87.2	0.453	1.818	9.0	222.6	---	2.641	12.96	0.610	65.3	191.2	23.6	0.310
4-1600	4-2280	0.265	92.5	-18.1	-8.36	1.207	88.7	0.456	1.834	4.2	224.1	---	2.671	11.15	0.617	64.7	195.3	20.2	0.313
4-1600	4-2300	0.244	100.9	-11.9	-6.63	1.209	90.3	0.460	1.851	359.1	585.4	0.999	2.703	9.88	0.623	64.1	199.9	17.5	0.319
4-1600	4-2320	0.234	110.4	-6.4	-5.23	1.211	92.0	0.466	1.867	353.8	586.5	0.997	2.738	8.97	0.627	63.5	204.7	15.5	0.328
4-1600	4-2340	0.232	120.7	-1.6	-4.05	1.213	93.8	0.473	1.884	348.2	587.3	0.992	2.776	8.31	0.631	62.9	209.8	13.9	0.339
4-1600	4-2360	0.240	131.1	2.1	-3.02	1.215	95.7	0.482	1.900	342.4	588.0	0.983	2.817	7.83	0.634	62.1	215.1	12.6	0.351
4-1600	4-2380	0.256	141.3	4.8	-2.09	1.217	97.8	0.493	1.917	336.3	588.4	0.971	2.862	7.50	0.637	61.2	220.5	11.5	0.364
4-1600	4-2400	0.279	150.7	6.3	-1.23	1.219	100.0	0.507	1.933	330.0	588.5	0.954	2.913	7.28	0.638	60.3	226.1	10.7	0.379
4-1610	4-1750	0.622	44.5	13.3	-1.76	1.342	65.0	0.834	4.826	55.5	120.8	---	---	-7.69	0.758	141.4	185.8	-5.8	0.626
4-1610	4-1770	0.584	40.4	13.4	-1.11	1.287	65.0	0.725	2.839	60.7	130.6	---	---	-7.44	0.657	136.2	185.7	-6.5	0.521
4-1610	4-1790	0.560	37.2	13.7	-0.48	1.250	65.0	0.657	2.238	65.1	139.6	---	---	-7.25	0.582	130.5	185.2	-7.3	0.439
4-1610	4-1810	0.544	34.8	14.2	0.12	1.224	65.0	0.614	1.962	68.4	147.5	---	---	-7.11	0.528	124.4	184.2	-8.3	0.375
4-1610	4-1830	0.531	33.1	14.9	0.70	1.207	65.2	0.586	1.811	70.7	154.5	---	---	-7.02	0.490	118.2	182.7	-9.4	0.324
4-1610	4-1850	0.522	31.9	15.7	1.28	1.195	65.4	0.566	1.722	72.0	160.6	---	---	-6.98	0.465	112.0	180.6	-10.6	0.285
4-1610	4-1870	0.513	31.0	16.8	1.87	1.187	65.6	0.552	1.668	72.7	166.0	---	---	-6.99	0.449	106.1	177.9	-11.9	0.254
4-1610	4-1890	0.504	30.5	18.0	2.47	1.182	66.0	0.541	1.635	72.7	170.8	---	---	-7.05	0.441	100.5	174.8	-13.3	0.231
4-1610	4-1910	0.496	30.2	19.5	3.09	1.179	66.5	0.532	1.616	72.1	175.2	---	---	-7.17	0.438	95.5	171.3	-14.7	0.215
4-1610	4-1930	0.488	30.0	21.1	3.74	1.177	67.0	0.525	1.607	71.2	179.2	---	---	-7.34	0.441	90.9	167.9	-16.0	0.205
4-1610	4-1950	0.480	29.9	23.0	4.44	1.177	67.6	0.518	1.604	69.8	182.9	---	2.435	-7.59	0.446	86.9	164.6	-17.2	0.199
4-1610	4-1970	0.471	29.9	25.2	5.21	1.177	68.2	0.512	1.606	68.2	186.3	---	2.428	-7.92	0.454	83.5	161.9	-18.3	0.198
4-1610	4-1990	0.464	29.9	27.7	6.07	1.178	68.9	0.506	1.612	66.3	189.6	---	2.428	-8.36	0.464	80.4	159.9	-19.5	0.200
4-1610	4-2010	0.457	29.7	30.6	7.06	1.180	69.7	0.501	1.620	64.2	192.7	---	2.432	-8.94	0.475	77.8	158.7	-20.7	0.204
4-1610	4-2030	0.451	29.3	34.1	8.22	1.181	70.5	0.496	1.631	61.8	195.7	---	2.440	-9.70	0.486	75.6	158.2	-22.0	0.212
4-1610	4-2050	0.449	28.4	38.2	9.64	1.183	71.3	0.492	1.643	59.2	198.5	---	2.451	-10.73	0.498	73.7	158.7	-23.7	0.222
4-1610	4-2070	0.451	26.6	43.1	11.43	1.185	72.2	0.487	1.657	56.5	201.2	---	2.464	-12.15	0.510	72.1	159.9	-25.8	0.235
4-1610	4-2090	0.462	23.0	48.9	13.84	1.188	73.2	0.483	1.671	53.6	203.9	---	2.479	-14.18	0.523	70.7	162.0	-28.6	0.253
4-1610	4-2110	0.490	15.7	55.4	17.30	1.190	74.1	0.480	1.687	50.6	206.5	---	2.495	-17.27	0.535	69.5	165.1	-32.3	0.278
4-1610	4-2130	0.553	0.2	61.4	22.75	1.192	75.1	0.476	1.702	47.6	208.9	---	2.513	-22.35	0.546	68.4	169.8	-37.1	0.320
4-1610	4-2150	0.696	332.5	62.4	32.64	1.194	76.0	0.474	1.719	44.6	211.3	---	2.534	-31.87	0.558	67.5	177.6	-42.6	0.402
4-1610	4-2170	1.039	307.7	50.5	54.13	1.197	76.7	0.474	1.735	42.4	213.6	---	2.559	-52.98	0.569	66.5	191.6	-45.1	0.588
4-1610	4-2210	0.843	51.0	-63.7	-42.92	1.201	81.4	0.457	1.769	27.7	217.6	---	2.579	44.81	0.588	66.4	197.5	45.6	0.532
4-1610	4-2230	0.549	69.3	-49.3	-25.60	1.204	82.4	0.458	1.787	24.5	219.6	---	2.606	27.88	0.597	65.7	191.9	39.7	0.399
4-1610	4-2250	0.411	76.9	-37.4	-17.24	1.206	83.6	0.459	1.804	20.5	221.4	---	2.632	19.92	0.605	65.2	192.0	32.4	0.350
4-1610	4-2270	0.334	83.3	-27.7	-12.43	1.208	85.0	0.460	1.821	16.0	223.0	---	2.659	15.52	0.613	64.7	194.6	26.5	0.332
4-1610	4-2290	0.286	90.2	-19.6	-9.28	1.210	86.5	0.462	1.839	11.2	224.5	---	2.688	12.79	0.619	64.2	198.4	22.1	0.328
4-1610	4-2310	0.254	98.3	-12.5	-7.03	1.212	88.1	0.464	1.856	6.1	225.8	---	2.718	10.98	0.624	63.8	202.8	18.9	0.330
4-1610	4-2330	0.235	107.6	-6.4	-5.31	1.214	89.7	0.469	1.874	0.8	226.8	---	2.751	9.72	0.629	63.3	207.6	16.4	0.336
4-1610	4-2350	0.226	118.2	-1.2	-3.93	1.216	91.5	0.474	1.891	355.2	587.7	0.995	2.787	8.81	0.633	62.8	212.6	14.5	0.344
4-1610	4-2370	0.226	129.4	2.9	-2.77	1.218	93.4	0.481	1.908	349.5	588.4	0.990	2.826	8.16	0.636	62.1	217.8	13.0	0.354
4-1610	4-2390	0.235	140.7	5.8	-1.76	1.220	95.4	0.490	1.925	343.5	588.8	0.982	2.869	7.69	0.638	61.4	223.3	11.8	0.365
4-1610	4-2410	0.253	151.4	7.4	-0.85	1.222	97.5	0.501	1.943	337.3	589.0	0.970	2.915	7.35	0.639	60.6	228.8	10.9	0.377
4-1620	4-1760	0.715	42.8	13.9	-1.57	1.310	58.1	0.798	3.364	73.2	130.9	---	---	-7.85	0.696	141.6	183.3	-5.7	0.594
4-1620	4-1780	0.677	39.9	14.1	-0.85	1.262	58.6	0.719	2.369	77.8	140.0	---	---	-7.49	0.602	135.8	182.7	-6.3	0.495
4-1620	4-1800	0.650	37.8	14.6	-0.19	1.229	59.0	0.671	1.990	81.2	148.0	---	---	-7.21	0.534	129.5	181.6	-7.1	0.419
4-1620	4-1820	0.631	36.4	15.2	0.43	1.208	59.4	0.639	1.802	83.4	154.9	---	---	-6.98	0.486	122.8	180.0	-7.9	0.360
4-1620	4-1840	0.615	35.4	15.9	1.02	1.194	59.9	0.617	1.697	84.6	160.8	---	---	-6.82	0.453	115.9	177.8	-8.8	0.314
4-1620	4-1860	0.602	34.8	16.8	1.60	1.184	60.4	0.601	1.635	85.0	166.0	---	---	-6.71	0.432	109.3	175.1	-9.8	0.279
4-1620	4-1880	0.589	34.5	17.8	2.16	1.178	60.9	0.588	1.598	84.8	170.5	---	---	-6.64	0.421	102.9	172.1	-10.8	0.253
4-1620	4-1900	0.578	34.5	19.0	2.73	1.175	61.5	0.577	1.578	84.1	174.7	---	---	-6.62	0.418	97.2	168.8	-11.8	0.234
4-1620	4-1920	0.566	34.6	20.2	3.30	1.173	62.2	0.568	1.568	82.9	178.5	---	---	-6.65	0.420	92.0	165.5	-12.7	0.221
4-1620	4-1940	0.555	34.8	21.7	3.89	1.173	62.9	0.560	1.566	81.4	182.0	---	2.442	-6.74	0.425	87.5	162.5	-13.5	0.214
4-1620	4-1960	0.543	35.1	23.3	4.51	1.173	63.7	0.552	1.569	79.7	185.3	---	2.435	-6.88	0.434	83.6	159.9	-14.2	0.210
4-1620	4-1980	0.531	35.5	25.1	5.18	1.175	64.5	0.544	1.576	77.6	188.4	---	2.434	-7.08	0.445	80.2	158.0	-14.9	0.210
4-1620	4-2000	0.520	35.8	27.2	5.90	1.176	65.4	0.537	1.586	75.4	191.3	---	2.438	-7.37	0.456	77.4	156.8	-15.6	0.213
4-1620	4-2020	0.509	36.2	29.5	6.70	1.178	66.3	0.531	1.598	72.9	194.2	---	2.446	-7.75	0.469	75.0	156.4	-16.4	0.217
4-1620	4-2040	0.499	36.5	32.2	7.62	1.181	67.3	0.524	1.612	70.3	196.9	---	2.456	-8.27	0.482	73.0	156.7	-17.3	0.224
4-1620	4-2060	0.490	36.5	35.4	8.69	1.183	68.2	0.518	1.627	67.4	199.6	---	2.469	-8.95	0.496	71.3	157.7	-18.4	0.232
4-1620	4-2080	0.483	36.2	39.2	9.99	1.185	69.3	0.512	1.643	64.5	202.2	---	2.483	-9.87	0.509	69.8	159.3	-19.8	0.241
4-1620	4-2100	0.481	35.2	43.8	11.63	1.188	70.3	0.506	1.659	61.3	204.7	---	2.499	-11.14	0.522	68.6	161.6	-21.8	0.253
4-1620	4-2120	0.486	32.8	49.2	13.82	1.191	71.4	0.501	1.677	58.1	207.1	---	2.516	-12.95	0.535	67.6	164.6	-24.4	0.269
4-1620	4-2140	0.506	27.2	55.7	16.93	1.193	72.5	0.496	1.694	54.7	209.5	---	2.535	-15.70	0.547	66.8	168.3	-27.9	0.291
4-1620	4-2160	0.556	14.3	62.3	21.81	1.196	73.7	0.492	1.713	51.2	211.8	---	2.554	-20.22	0.559	66.0	173.4	-32.8	0.326
4-1620	4-2180	0.675	346.8	65.3	30.60	1.198	74.7	0.488	1.731	47.9	214.0	---	2.576	-28.66	0.570	65.4	181.1	-39.2	0.394
4-1620	4-2200	0.979	317.1	55.6	49.95	1.201	75.6	0.487	1.749	45.0	216.1	---	2.601	-47.64	0.581	64.7	195.3	-44.1	0.557
4-1620	4-2240	0.843	53.3	-59.8	-42.57	1.206	80.3	0.469	1.787	30.6	219.9	---	2.624	45.60	0.599	64.8	204.4	44.5	0.553
4-1620	4-2260	0.531	73.3	-44.7	-24.03	1.208	81.4	0.469	1.805	27.2	221.7	---	2.652	27.43	0.607	64.3	198.3	37.8	0.411
4-1620	4-2280	0.392	81.8	-31.8	-15.51	1.211	82.8	0.469	1.824	22.8	223.3	---	2.679	19.29	0.614	64.0	198.7	30.2	0.363
4-1620	4-2300	0.318	88.9	-21.5	-10.73	1.213	84.2	0.469	1.842	18.1	224.7	---	2.707	14.91	0.621	63.6	201.7	24.4	0.347
4-1620	4-2320	0.273	96.6	-13.0	-7.66	1.215	85.8	0.471	1.861	13.0	226.0	---	2.737	12.24	0.626	63.3	205.8	20.2	0.343

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1650	4-1970	0.768	52.8	24.6	4.70	1.157	50.1	0.688	1.453	109.0	187.0	---	2.453	-4.49	0.375	75.1	152.3	-5.9	0.277
4-1650	4-1990	0.746	53.9	25.7	5.11	1.161	51.4	0.674	1.470	106.1	189.4	---	2.461	-4.42	0.394	71.7	152.1	-6.0	0.276
4-1650	4-2010	0.725	55.1	26.8	5.52	1.164	52.8	0.661	1.488	103.2	191.8	---	2.472	-4.39	0.413	69.0	152.4	-6.1	0.277
4-1650	4-2030	0.703	56.3	28.0	5.93	1.168	54.2	0.649	1.508	100.2	194.1	---	2.486	-4.40	0.432	66.9	153.3	-6.3	0.279
4-1650	4-2050	0.682	57.6	29.3	6.36	1.172	55.6	0.636	1.529	97.0	196.4	---	2.501	-4.45	0.450	65.2	154.6	-6.4	0.282
4-1650	4-2070	0.661	58.9	30.8	6.81	1.176	57.0	0.624	1.550	93.7	198.7	---	2.518	-4.54	0.468	63.9	156.5	-6.7	0.286
4-1650	4-2090	0.640	60.3	32.4	7.29	1.180	58.4	0.612	1.573	90.3	201.0	---	2.535	-4.69	0.485	62.9	158.8	-7.0	0.290
4-1650	4-2110	0.620	61.7	34.1	7.81	1.184	59.9	0.601	1.595	86.8	203.2	---	2.554	-4.90	0.502	62.1	161.5	-7.4	0.295
4-1650	4-2130	0.600	63.2	36.1	8.41	1.187	61.3	0.590	1.618	83.2	205.5	---	2.572	-5.19	0.518	61.5	164.5	-7.9	0.300
4-1650	4-2150	0.580	64.7	38.4	9.09	1.191	62.8	0.579	1.641	79.4	207.7	---	2.592	-5.59	0.533	61.1	167.8	-8.6	0.305
4-1650	4-2170	0.562	66.2	41.1	9.91	1.195	64.2	0.569	1.665	75.6	209.8	---	2.611	-6.13	0.547	60.8	171.5	-9.4	0.311
4-1650	4-2190	0.546	67.6	44.4	10.94	1.198	65.7	0.559	1.688	71.6	211.9	---	2.631	-6.89	0.560	60.7	175.5	-10.6	0.318
4-1650	4-2210	0.534	68.7	48.5	12.29	1.201	67.3	0.550	1.711	67.4	214.0	---	2.652	-7.98	0.572	60.6	179.7	-12.3	0.325
4-1650	4-2230	0.529	69.2	53.8	14.20	1.205	68.8	0.541	1.734	63.2	216.0	---	2.672	-9.62	0.583	60.5	184.3	-14.7	0.335
4-1650	4-2250	0.540	67.4	60.8	17.17	1.208	70.3	0.533	1.757	58.9	217.9	---	2.694	-12.34	0.593	60.5	189.5	-18.4	0.350
4-1650	4-2270	0.589	56.4	70.0	22.55	1.211	71.9	0.526	1.780	54.4	219.7	---	2.716	-17.46	0.602	60.6	195.8	-24.6	0.378
4-1650	4-2290	0.764	2.7	74.5	35.28	1.214	73.3	0.520	1.803	50.2	221.3	---	2.741	-25.95	0.610	60.6	206.4	-35.0	0.462
4-1650	4-2330	0.713	75.0	-45.6	-33.61	1.219	77.6	0.503	1.848	37.6	224.5	---	2.777	39.44	0.623	61.2	222.4	39.8	0.542
4-1650	4-2350	0.411	95.8	-23.2	-14.38	1.222	79.1	0.501	1.870	33.1	225.8	---	2.806	20.46	0.628	61.1	217.3	27.7	0.413
4-1650	4-2370	0.317	105.8	-6.7	-7.34	1.224	80.8	0.499	1.891	28.0	226.9	---	2.835	13.68	0.632	61.1	219.9	19.9	0.384
4-1650	4-2390	0.274	114.8	4.4	-3.75	1.227	82.5	0.497	1.913	22.6	227.9	---	2.864	10.35	0.635	61.0	224.3	15.3	0.377
4-1650	4-2410	0.249	124.6	11.8	-1.54	1.229	84.3	0.497	1.934	17.1	228.7	---	2.898	8.40	0.637	60.9	229.3	12.5	0.377
4-1650	4-2430	0.233	135.7	16.7	-0.03	1.231	86.2	0.499	1.955	11.4	229.3	---	2.929	7.15	0.638	60.7	234.5	10.5	0.380
4-1650	4-2450	0.226	147.9	19.4	1.10	1.233	88.2	0.501	1.975	5.5	229.7	---	2.965	6.30	0.639	60.5	239.8	9.1	0.384
4-1660	4-1800	1.163	51.2	18.5	-0.40	1.206	27.9	0.906	1.732	139.2	165.7	---	---	-7.48	0.458	151.5	167.5	-2.8	0.579
4-1660	4-1820	1.102	51.6	19.2	0.79	1.175	30.5	0.881	1.540	137.4	168.6	---	---	-6.45	0.376	141.8	165.3	-3.0	0.498
4-1660	4-1840	1.054	52.2	20.0	1.69	1.158	32.9	0.858	1.449	135.4	171.3	---	---	-5.69	0.323	130.4	162.9	-3.2	0.439
4-1660	4-1860	1.014	53.0	20.7	2.42	1.148	35.0	0.837	1.403	133.2	173.9	---	---	-5.12	0.293	118.1	160.3	-3.3	0.396
4-1660	4-1880	0.979	53.9	21.5	3.03	1.143	36.9	0.818	1.383	130.8	176.3	---	---	-4.68	0.283	106.0	157.8	-3.5	0.365
4-1660	4-1900	0.948	54.9	22.3	3.54	1.142	38.8	0.800	1.377	128.3	178.7	---	---	-4.33	0.286	95.3	155.6	-3.6	0.343
4-1660	4-1920	0.919	56.0	23.1	4.00	1.143	40.6	0.782	1.380	125.7	181.0	---	2.459	-4.05	0.298	86.5	153.8	-3.7	0.328
4-1660	4-1940	0.892	57.2	23.9	4.41	1.145	42.3	0.766	1.389	122.9	183.2	---	2.453	-3.84	0.316	79.6	152.4	-3.7	0.318
4-1660	4-1960	0.866	58.4	24.8	4.78	1.148	43.9	0.749	1.403	120.1	185.5	---	2.455	-3.66	0.336	74.3	151.6	-3.8	0.312
4-1660	4-1980	0.841	59.7	25.6	5.13	1.152	45.5	0.734	1.420	117.1	187.7	---	2.463	-3.53	0.358	70.2	151.3	-3.9	0.308
4-1660	4-2000	0.816	61.0	26.6	5.47	1.156	47.1	0.719	1.440	114.1	189.9	---	2.474	-3.44	0.380	67.1	151.6	-3.9	0.307
4-1660	4-2020	0.792	62.4	27.5	5.79	1.160	48.7	0.704	1.461	110.9	192.1	---	2.488	-3.37	0.402	64.7	152.4	-4.0	0.307
4-1660	4-2040	0.767	63.8	28.5	6.11	1.165	50.3	0.689	1.483	107.7	194.3	---	2.505	-3.34	0.423	62.9	153.8	-4.1	0.309
4-1660	4-2060	0.743	65.3	29.6	6.43	1.169	51.9	0.675	1.506	104.3	196.5	---	2.522	-3.33	0.443	61.5	155.5	-4.2	0.311
4-1660	4-2080	0.719	66.8	30.7	6.76	1.173	53.4	0.661	1.530	100.9	198.7	---	2.541	-3.36	0.463	60.5	157.7	-4.3	0.314
4-1660	4-2100	0.696	68.4	32.0	7.11	1.178	55.0	0.647	1.554	97.4	200.8	---	2.560	-3.43	0.481	59.8	160.3	-4.5	0.317
4-1660	4-2120	0.672	70.1	33.3	7.48	1.182	56.6	0.634	1.579	93.7	203.0	---	2.579	-3.53	0.499	59.2	163.2	-4.7	0.320
4-1660	4-2140	0.648	71.8	34.8	7.88	1.186	58.2	0.621	1.603	90.0	205.2	---	2.599	-3.68	0.516	58.9	166.4	-5.0	0.324
4-1660	4-2160	0.625	73.7	36.5	8.33	1.190	59.7	0.609	1.628	86.1	207.3	---	2.619	-3.89	0.531	58.7	169.9	-5.4	0.328
4-1660	4-2180	0.602	75.6	38.4	8.85	1.194	61.3	0.597	1.653	82.2	209.5	---	2.639	-4.19	0.546	58.6	173.7	-5.9	0.332
4-1660	4-2200	0.581	77.6	40.6	9.47	1.198	62.9	0.585	1.678	78.1	211.6	---	2.660	-4.59	0.559	58.6	177.7	-6.5	0.336
4-1660	4-2220	0.560	79.8	43.3	10.25	1.201	64.6	0.574	1.703	73.9	213.6	---	2.680	-5.15	0.572	58.7	182.0	-7.4	0.341
4-1660	4-2240	0.543	81.9	46.7	11.26	1.205	66.2	0.564	1.728	69.5	215.6	---	2.701	-5.97	0.583	58.8	186.5	-8.6	0.346
4-1660	4-2260	0.530	84.0	51.0	12.69	1.208	67.8	0.554	1.752	65.1	217.5	---	2.722	-7.20	0.593	59.0	191.2	-10.4	0.352
4-1660	4-2280	0.528	85.4	57.0	14.91	1.212	69.5	0.545	1.776	60.5	219.3	---	2.744	-9.22	0.602	59.2	196.3	-13.3	0.361
4-1660	4-2300	0.552	83.8	66.0	18.95	1.215	71.2	0.537	1.800	55.8	221.0	---	2.767	-13.07	0.610	59.4	202.1	-18.3	0.378
4-1660	4-2320	0.669	52.4	78.4	28.73	1.218	72.8	0.530	1.824	51.2	222.5	---	2.791	-22.65	0.617	59.6	210.6	-28.4	0.430
4-1660	4-2360	0.617	87.1	-38.7	-27.22	1.223	76.9	0.514	1.871	39.4	225.4	---	2.833	33.67	0.628	60.2	226.8	36.3	0.510
4-1660	4-2380	0.364	107.0	-11.2	-9.62	1.226	78.5	0.511	1.894	34.6	226.5	---	2.861	16.26	0.632	60.2	223.7	22.2	0.406
4-1660	4-2400	0.300	117.1	5.2	-3.84	1.228	80.2	0.508	1.916	29.3	227.5	---	2.890	10.68	0.634	60.3	227.4	15.3	0.388
4-1660	4-2420	0.271	126.5	14.6	-0.99	1.231	82.1	0.506	1.938	23.8	228.4	---	2.920	8.02	0.636	60.3	232.2	11.6	0.384
4-1660	4-2440	0.252	136.8	20.3	0.74	1.233	83.9	0.506	1.960	18.1	229.0	---	2.952	6.49	0.638	60.2	237.3	9.3	0.385
4-1660	4-2460	0.240	148.1	23.4	1.91	1.235	85.9	0.507	1.982	12.4	229.6	---	2.986	5.51	0.638	60.1	242.6	7.9	0.388
4-1670	4-1810	1.280	55.6	19.8	0.36	1.189	19.8	0.950	1.613	152.2	170.9	---	---	-6.79	0.411	157.7	164.2	-1.7	0.609
4-1670	4-1830	1.211	56.5	20.5	1.77	1.160	23.0	0.929	1.456	149.1	172.5	---	---	-5.48	0.325	147.0	161.9	-1.8	0.529
4-1670	4-1850	1.156	57.5	21.3	2.73	1.144	25.9	0.908	1.382	146.1	174.2	---	---	-4.61	0.270	133.5	159.6	-1.9	0.471
4-1670	4-1870	1.111	58.7	22.0	3.44	1.136	28.5	0.888	1.347	143.2	176.1	---	---	-3.99	0.242	118.1	157.3	-2.0	0.430
4-1670	4-1890	1.071	59.9	22.8	3.99	1.133	30.9	0.869	1.334	140.2	178.0	---	---	-3.54	0.236	103.1	155.2	-2.0	0.399
4-1670	4-1910	1.035	61.2	23.5	4.44	1.133	33.1	0.850	1.333	137.2	179.9	---	---	-3.20	0.247	90.5	153.4	-2.1	0.378
4-1670	4-1930	1.003	62.6	24.2	4.82	1.134	35.2	0.832	1.341	134.2	181.9	---	2.456	-2.93	0.266	80.9	152.1	-2.1	0.363
4-1670	4-1950	0.972	64.0	25.0	5.14	1.138	37.2	0.814	1.354	131.1	183.9	---	2.456	-2.72	0.290	73.8	151.3	-2.1	0.353
4-1670	4-1970	0.942	65.4	25.7	5.43	1.142	39.1	0.796	1.371	128.0	185.9	---	2.462	-2.56	0.315	68.6	151.0	-2.2	0.347
4-1670	4-1990	0.914	66.9	26.5	5.69	1.146	40.9	0.779	1.390	124.8	187.9	---	2.474	-2.43	0.341	64.9	151.3	-2.2	0.343
4-1670	4-2010	0.886	68.4	27.2	5.94	1.151	42.8	0.762	1.412	121.6	189.9	---	2.488	-2.33	0.366	62.1	152.0	-2.2	0.341
4-1670	4-2030	0.859	70.0	28.0	6.16	1.156	44.6	0.746	1.435	118.2	192.0	---	2.506	-2.26	0.391	60.1	153.2	-2.2	0.340
4-1670	4-2050	0.832	71.6	28.9	6.38	1.161	46.3	0.730	1.459	114.8	194.1	---	2.524	-2.21	0.414	58.7	154.9	-2.3	0.341
4-1670	4-2070	0.805	73.2	29.7	6.60	1.166	48.1	0.714	1.484	111.4	196.2	---	2.544	-2.18	0.436	57.7	157.0	-2.3	0.342
4-1670	4-2090	0.778	74.9	30.6	6.82	1.171	49.8	0.698	1.510	107.8	198.3	---	2.564	-2.17	0.457	56.9	159.5	-2.4	0.344
4-1670	4-2110	0.752	76.7	31.5	7.03	1.175	51.5	0.683	1.536	104.2	200.4	---	2.585	-2.18	0.477	56.5	162.2	-2.5	0.346
4-1670	4-2130	0.725	78.5	32.5	7.26	1.180	53.2	0.668	1.562	100.4	202.6	---	2.605	-2.22	0.496	56.2	165.3	-2.6	0.348
4-1670	4-2150	0.699	80.5	33.6	7.51	1.185	54.9	0.653	1.588	96.6	204.7	---	2.628	-2.28	0.513	56.1	168.7	-2.8	0.350
4-1670	4-2170	0.673	82.5	34.8	7.77	1.189	56.6	0.639	1.615	92.7	206.8	---	2.647	-2.38	0.529	56.1	172.4	-3.0	0.353
4-1670	4-2190	0.646	84.7	36.1	8.06	1.193	58.4	0.626	1.641	88.6	208.9	---	2.668	-2.51	0.545	56.2	176.3	-3.2	0.356
4-1670	4-2210	0.621	86.9	37.6	8.40	1.197	60.1	0.612	1.668	84.5	211.0	---	2.689	-2.70	0.558	56.4	180.4	-3.5	0.358
4-1670	4-2230	0.595	89.4	39.2	8.81	1.201	61.8	0.600	1.694	80.2	213.0	---	2.710	-2.98	0.571	56.7	184.7	-3.9	0.361
4-1670	4-2250	0.571	92.0	41.2	9.31	1.205	63.5	0.588	1.720	75.8	215.0	---	2.731	-3.32	0.583	57.0	189.1	-4.5	0.364

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1670	4-2270	0.548	94.9	43.7	9.96	1.208	65.3	0.576	1.746	71.3	216.9	---	2.752	-3.84	0.593	57.3	193.8	-5.2	0.367
4-1670	4-2290	0.528	98.0	46.8	10.88	1.212	67.0	0.566	1.772	66.6	218.7	---	2.774	-4.63	0.602	57.7	198.6	-6.4	0.370
4-1670	4-2310	0.514	101.3	51.2	12.31	1.215	68.8	0.556	1.797	61.9	220.4	---	2.798	-5.92	0.610	58.0	203.7	-8.2	0.375
4-1670	4-2330	0.514	104.6	58.0	14.90	1.218	70.5	0.547	1.822	57.0	222.0	---	2.819	-8.38	0.617	58.3	209.1	-11.5	0.383
4-1670	4-2350	0.569	104.0	70.9	21.23	1.221	72.3	0.539	1.847	52.1	223.5	---	2.843	-14.59	0.623	58.6	215.7	-19.3	0.406
4-1670	4-2370	1.098	346.4	69.0	56.24	1.224	73.8	0.534	1.871	47.6	224.7	---	2.870	-49.48	0.627	58.8	238.4	-39.6	0.640
4-1670	4-2390	0.491	102.8	-26.8	-18.24	1.227	76.2	0.525	1.895	40.9	226.0	---	2.889	25.12	0.631	59.3	230.4	29.7	0.465
4-1670	4-2410	0.331	120.4	5.0	-4.14	1.230	77.9	0.520	1.919	35.8	227.1	---	2.917	11.14	0.634	59.4	230.5	15.3	0.400
4-1670	4-2430	0.297	130.1	18.1	-0.05	1.232	79.8	0.517	1.942	30.4	228.0	---	2.948	7.18	0.636	59.6	235.0	10.1	0.392
4-1670	4-2450	0.278	139.6	24.5	1.90	1.234	81.6	0.515	1.965	24.8	228.7	---	2.977	5.35	0.637	59.6	240.2	7.5	0.391
4-1670	4-2470	0.264	149.9	27.7	3.06	1.237	83.5	0.514	1.987	19.1	229.2	---	3.009	4.32	0.637	59.6	245.4	6.0	0.393
4-1680	4-1820	1.395	60.5	21.0	2.17	1.177	11.5	0.983	1.539	164.3	175.1	---	---	-4.99	0.376	165.9	161.7	-0.7	0.650
4-1680	4-1840	1.318	61.8	21.8	3.71	1.148	15.4	0.967	1.398	159.9	175.5	---	---	-3.49	0.281	155.0	159.5	-0.7	0.569
4-1680	4-1860	1.257	63.3	22.5	4.55	1.133	18.8	0.950	1.333	156.1	176.4	---	---	-2.69	0.220	139.3	157.4	-0.8	0.512
4-1680	4-1880	1.206	64.8	23.2	5.08	1.126	21.9	0.932	1.304	152.5	177.6	---	---	-2.20	0.190	119.6	155.4	-0.8	0.470
4-1680	4-1900	1.162	66.3	23.9	5.46	1.123	24.7	0.914	1.295	149.0	179.0	---	---	-1.87	0.189	100.0	153.7	-0.8	0.440
4-1680	4-1920	1.122	67.9	24.5	5.74	1.124	27.3	0.896	1.297	145.6	180.6	---	2.459	-1.63	0.207	84.7	152.4	-0.8	0.418
4-1680	4-1940	1.085	69.5	25.2	5.96	1.127	29.7	0.877	1.307	142.3	182.3	---	2.455	-1.45	0.234	74.1	151.6	-0.8	0.403
4-1680	4-1960	1.051	71.1	25.8	6.14	1.130	32.0	0.859	1.323	138.9	184.0	---	2.459	-1.32	0.264	67.0	151.2	-0.8	0.392
4-1680	4-1980	1.018	72.7	26.5	6.30	1.135	34.2	0.841	1.342	135.6	185.9	---	2.470	-1.21	0.295	62.3	151.4	-0.8	0.385
4-1680	4-2000	0.987	74.4	27.1	6.43	1.140	36.3	0.823	1.363	132.2	187.7	---	2.485	-1.13	0.325	59.0	152.0	-0.8	0.380
4-1680	4-2020	0.956	76.1	27.7	6.55	1.146	38.3	0.805	1.387	128.7	189.7	---	2.503	-1.07	0.353	56.8	153.1	-0.8	0.377
4-1680	4-2040	0.926	77.8	28.3	6.66	1.151	40.3	0.787	1.411	125.3	191.6	---	2.522	-1.02	0.380	55.3	154.7	-0.8	0.376
4-1680	4-2060	0.896	79.5	29.0	6.77	1.157	42.3	0.770	1.437	121.7	193.6	---	2.543	-0.98	0.406	54.2	156.6	-0.9	0.375
4-1680	4-2080	0.867	81.3	29.6	6.86	1.162	44.2	0.753	1.463	118.1	195.7	---	2.565	-0.96	0.430	53.6	159.0	-0.9	0.375
4-1680	4-2100	0.838	83.2	30.3	6.96	1.167	46.1	0.736	1.490	114.5	197.7	---	2.587	-0.94	0.452	53.2	161.6	-0.9	0.376
4-1680	4-2120	0.809	85.1	31.0	7.06	1.173	48.0	0.719	1.518	110.7	199.8	---	2.609	-0.93	0.473	53.0	164.6	-0.9	0.377
4-1680	4-2140	0.780	87.0	31.7	7.15	1.178	49.8	0.703	1.546	106.9	201.9	---	2.631	-0.94	0.492	53.0	167.8	-1.0	0.378
4-1680	4-2160	0.751	89.1	32.4	7.25	1.183	51.7	0.686	1.573	103.0	204.0	---	2.653	-0.95	0.511	53.2	171.4	-1.0	0.379
4-1680	4-2180	0.722	91.2	33.2	7.36	1.187	53.5	0.671	1.601	99.0	206.1	---	2.675	-0.98	0.528	53.4	175.1	-1.1	0.380
4-1680	4-2200	0.693	93.5	34.0	7.47	1.192	55.3	0.656	1.629	94.8	208.2	---	2.697	-1.02	0.543	53.7	179.1	-1.2	0.382
4-1680	4-2220	0.664	95.8	34.9	7.60	1.196	57.2	0.641	1.657	90.6	210.2	---	2.719	-1.07	0.557	54.1	183.3	-1.3	0.383
4-1680	4-2240	0.635	98.4	35.8	7.75	1.200	59.0	0.627	1.685	86.3	212.2	---	2.740	-1.15	0.570	54.6	187.6	-1.4	0.384
4-1680	4-2260	0.607	101.1	36.9	7.92	1.204	60.8	0.613	1.712	81.9	214.2	---	2.762	-1.26	0.582	55.0	192.1	-1.6	0.385
4-1680	4-2280	0.579	104.0	38.1	8.14	1.208	62.6	0.600	1.739	77.3	216.1	---	2.783	-1.42	0.592	55.5	196.8	-1.8	0.387
4-1680	4-2300	0.552	107.1	39.5	8.42	1.212	64.5	0.588	1.766	72.7	217.9	---	2.805	-1.64	0.602	56.0	201.6	-2.1	0.388
4-1680	4-2320	0.525	110.6	41.2	8.81	1.215	66.3	0.577	1.793	67.9	219.6	---	2.827	-1.97	0.609	56.5	206.5	-2.6	0.389
4-1680	4-2340	0.501	114.6	43.5	9.41	1.218	68.1	0.566	1.819	63.0	221.3	---	2.850	-2.52	0.616	57.0	211.6	-3.3	0.391
4-1680	4-2360	0.482	119.1	47.0	10.50	1.221	70.0	0.557	1.845	58.0	222.8	---	2.873	-3.55	0.622	57.4	216.7	-4.7	0.393
4-1680	4-2380	0.480	124.6	54.0	13.13	1.225	71.8	0.548	1.871	52.9	224.1	---	2.897	-6.13	0.627	57.8	222.2	-8.2	0.397
4-1680	4-2400	0.677	119.6	81.7	29.53	1.227	73.6	0.541	1.896	47.8	225.4	---	2.922	-22.48	0.630	58.1	232.1	-26.4	0.460
4-1680	4-2420	0.370	123.5	1.3	-5.55	1.230	75.6	0.534	1.921	42.2	226.5	---	2.947	12.65	0.633	58.5	234.0	16.5	0.417
4-1680	4-2440	0.330	136.0	24.6	2.06	1.233	77.4	0.529	1.945	36.8	227.4	---	2.975	5.10	0.634	58.7	237.9	6.9	0.399
4-1680	4-2460	0.313	144.7	30.6	3.99	1.235	79.3	0.526	1.969	31.3	228.2	---	3.004	3.22	0.635	58.9	243.0	4.4	0.398
4-1680	4-2480	0.296	153.6	33.0	4.88	1.238	81.2	0.523	1.992	25.7	228.8	---	3.035	2.38	0.636	59.0	248.3	3.3	0.399
4-1690	4-1850	1.422	67.6	22.9	9.53	1.140	7.7	0.992	1.362	170.1	177.9	---	---	2.43	0.250	166.1	158.2	0.2	0.617
4-1690	4-1870	1.355	69.4	23.5	8.60	1.124	11.7	0.980	1.299	165.4	178.0	---	---	1.51	0.177	149.5	158.3	0.2	0.558
4-1690	4-1890	1.299	71.2	24.2	8.17	1.117	15.2	0.967	1.272	161.2	178.7	---	---	1.10	0.140	123.8	154.7	0.2	0.515
4-1690	4-1910	1.250	73.0	24.8	7.92	1.115	18.5	0.951	1.264	157.3	179.7	---	---	0.86	0.142	96.3	153.3	0.3	0.484
4-1690	4-1930	1.206	74.9	25.3	7.76	1.116	21.4	0.935	1.268	153.5	180.9	---	2.454	0.71	0.168	77.1	152.4	0.3	0.462
4-1690	4-1950	1.166	76.7	25.9	7.64	1.119	24.2	0.917	1.280	149.9	182.3	---	2.454	0.61	0.203	65.8	151.9	0.3	0.445
4-1690	4-1970	1.129	78.5	26.4	7.55	1.124	26.8	0.900	1.297	146.3	183.9	---	2.463	0.54	0.240	59.2	152.0	0.3	0.434
4-1690	4-1990	1.093	80.3	26.9	7.48	1.129	29.2	0.882	1.317	142.7	185.5	---	2.477	0.48	0.276	55.2	152.5	0.3	0.425
4-1690	4-2010	1.059	82.1	27.4	7.42	1.135	31.6	0.863	1.339	139.2	187.3	---	2.495	0.44	0.309	52.7	153.4	0.3	0.419
4-1690	4-2030	1.025	84.0	27.9	7.37	1.140	33.8	0.845	1.364	135.6	189.1	---	2.516	0.41	0.341	51.1	154.8	0.3	0.415
4-1690	4-2050	0.993	85.8	28.4	7.32	1.146	36.0	0.827	1.389	132.0	191.0	---	2.538	0.38	0.370	50.1	156.6	0.3	0.413
4-1690	4-2070	0.961	87.7	28.8	7.28	1.152	38.2	0.809	1.416	128.3	192.9	---	2.562	0.36	0.398	49.5	158.8	0.3	0.411
4-1690	4-2090	0.929	89.6	29.3	7.24	1.158	40.3	0.790	1.444	124.6	194.9	---	2.585	0.35	0.423	49.3	161.3	0.3	0.410
4-1690	4-2110	0.897	91.5	29.7	7.21	1.164	42.3	0.772	1.472	120.8	196.9	---	2.609	0.34	0.447	49.3	164.1	0.3	0.409
4-1690	4-2130	0.866	93.5	30.2	7.17	1.169	44.4	0.755	1.501	117.0	198.9	---	2.633	0.33	0.469	49.4	167.2	0.3	0.409
4-1690	4-2150	0.835	95.6	30.6	7.14	1.175	46.4	0.737	1.530	113.1	201.0	---	2.657	0.33	0.489	49.7	170.6	0.3	0.409
4-1690	4-2170	0.803	97.7	31.1	7.10	1.180	48.3	0.720	1.559	109.1	203.1	---	2.680	0.33	0.508	50.1	174.3	0.3	0.409
4-1690	4-2190	0.772	99.8	31.5	7.07	1.185	50.3	0.703	1.588	105.1	205.2	---	2.703	0.33	0.525	50.6	178.1	0.3	0.409
4-1690	4-2210	0.741	102.1	31.9	7.03	1.190	52.3	0.686	1.617	100.9	207.2	---	2.726	0.34	0.541	51.2	182.2	0.4	0.409
4-1690	4-2230	0.710	104.5	32.4	6.99	1.194	54.2	0.670	1.646	96.7	209.3	---	2.749	0.36	0.556	51.7	186.4	0.4	0.409
4-1690	4-2250	0.678	107.0	32.8	6.94	1.199	56.1	0.654	1.675	92.3	211.3	---	2.771	0.38	0.569	52.4	190.8	0.4	0.409
4-1690	4-2270	0.647	109.6	33.2	6.89	1.203	58.0	0.639	1.704	87.8	213.3	---	2.793	0.40	0.581	53.0	195.4	0.5	0.409
4-1690	4-2290	0.616	112.3	33.6	6.83	1.207	59.9	0.625	1.732	83.3	215.2	---	2.815	0.44	0.591	53.6	200.1	0.5	0.409
4-1690	4-2310	0.585	115.3	34.0	6.75	1.211	61.8	0.612	1.760	78.6	217.0	---	2.837	0.49	0.601	54.3	204.9	0.6	0.409
4-1690	4-2330	0.554	118.4	34.3	6.66	1.214	63.7	0.599	1.788	73.9	218.8	---	2.859	0.57	0.608	54.9	209.8	0.7	0.409
4-1690	4-2350	0.523	121.8	34.5	6.52	1.218	65.6	0.587	1.816	69.0	220.4	---	2.882	0.69	0.615	55.5	214.8	0.9	0.408
4-1690	4-2370	0.493	125.5	34.5	6.31	1.221	67.5	0.576	1.843	64.0	221.9	---	2.904	0.87	0.621	56.0	219.9	1.1	0.408
4-1690	4-2390	0.462	129.3	34.0	5.95	1.224	69.4	0.566	1.870	58.9	223.3	---	2.928	1.22	0.625	56.6	225.1	1.6	0.408
4-1690	4-2410	0.429	133.2	32.0	5.09	1.227	71.3	0.557	1.896	53.7	224.6	---	2.953	2.06	0.629	57.0	230.3	2.7	0.408
4-1690	4-2430	0.389	134.1	18.3	0.33	1.230	73.2	0.550	1.922	48.5	225.7	---	2.978	6.80	0.631	57.4	236.0	8.8	0.413
4-1690	4-2450	0.432	149.7	51.4	12.36	1.233	75.1	0.543	1.947	43.1	226.7	---	3.005	-5.25	0.633	57.8	241.0	-6.9	0.411
4-1690	4-2470	0.376	153.6	43.3	9.02	1.236	77.0	0.538	1.972	37.7	227.5	---	3.033	-1.92	0.634	58.1	246.1	-2.5	0.407
4-1690	4-2490	0.348	160.2	41.2	8.27	1.238	78.9	0.534	1.996	32.2	228.2	---	3.062	-1.19	0.634	58.3	251.3	-1.6	0.407
4-1700	4-1880	1.450	75.8	24.4	24.79	1.119	4.8	0.997	1.280	174.1	179.2	---	---	17.90	0.148	165.5	156.2	1.1	0.609
4-1700	4-1900	1.389	77.9	24.9	16.03	1.111	8.7	0.989	1.251	169.4	179.4	---	---	9.21	0.094	134.8	154.8	1.1	0.564

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1900	4-2120	0.728	133.0	5.2	-8.80	1.218	126.3	0.718	2.045	268.2	501.6	0.577	---	4.23	0.627	135.5	267.1	3.3	0.556
4-1900	4-2140	0.670	132.9	4.9	-8.30	1.186	124.0	0.661	1.767	268.2	507.5	0.598	---	3.95	0.569	128.8	268.0	3.7	0.473
4-1900	4-2160	0.627	132.8	4.8	-7.84	1.163	122.3	0.619	1.614	268.2	513.5	0.614	---	3.74	0.526	121.8	267.9	4.1	0.405
4-1900	4-2180	0.596	132.8	4.9	-7.42	1.147	121.0	0.589	1.522	268.0	519.4	0.625	---	3.58	0.496	114.8	266.6	4.6	0.350
4-1900	4-2200	0.575	133.0	5.1	-7.03	1.135	120.2	0.569	1.464	267.7	525.2	0.632	---	3.48	0.475	107.9	263.9	5.1	0.308
4-1900	4-2220	0.564	133.3	5.5	-6.64	1.128	119.8	0.557	1.428	267.0	530.8	0.632	---	3.42	0.462	101.2	259.7	5.6	0.278
4-1900	4-2240	0.561	133.9	6.0	-6.27	1.123	119.9	0.553	1.405	266.0	536.1	0.628	---	3.40	0.455	94.8	254.4	5.9	0.261
4-1900	4-2260	0.567	134.8	6.6	-5.89	1.120	120.4	0.557	1.392	264.5	541.0	0.617	2.168	3.42	0.452	88.7	248.7	6.0	0.257
4-1900	4-2280	0.581	135.9	7.3	-5.49	1.118	121.3	0.568	1.386	262.5	545.5	0.599	2.173	3.48	0.452	82.9	243.7	5.9	0.265
4-1900	4-2300	0.603	137.4	8.0	-5.08	1.118	122.7	0.585	1.386	260.0	549.4	0.575	2.196	3.60	0.454	77.2	240.2	5.6	0.284
4-1900	4-2320	0.634	139.2	8.8	-4.62	1.119	124.6	0.609	1.389	256.8	552.7	0.543	2.235	3.78	0.457	71.7	238.5	5.3	0.312
4-1900	4-2340	0.675	141.4	9.4	-4.12	1.120	127.0	0.640	1.395	252.9	555.3	0.502	2.288	4.02	0.461	66.1	238.6	4.9	0.347
4-1900	4-2360	0.726	143.9	9.9	-3.53	1.122	130.0	0.677	1.405	248.3	557.2	0.453	2.356	4.36	0.466	60.4	240.3	4.5	0.390
4-1900	4-2380	0.789	146.7	10.3	-2.83	1.125	133.7	0.721	1.416	242.9	558.2	0.396	2.437	4.84	0.470	54.4	243.3	4.2	0.438
4-1900	4-2400	0.863	149.9	10.4	-1.95	1.128	138.1	0.769	1.430	236.5	558.4	0.330	2.531	5.50	0.475	48.1	247.5	3.9	0.492
4-1900	4-2420	0.950	153.5	10.3	-0.78	1.132	143.3	0.821	1.447	229.3	557.5	0.259	2.635	6.46	0.479	41.3	252.7	3.7	0.551
4-1900	4-2440	1.048	157.4	10.0	0.88	1.136	149.2	0.873	1.466	221.2	555.7	0.186	2.745	7.92	0.484	34.0	258.8	3.5	0.615
4-1910	4-2130	0.701	139.6	0.9	-9.75	1.223	124.4	0.707	2.088	272.6	499.5	0.613	---	6.03	0.638	134.8	270.9	4.9	0.553
4-1910	4-2150	0.642	139.4	0.9	-8.97	1.191	122.1	0.648	1.799	272.7	505.5	0.633	---	5.52	0.581	128.2	272.0	5.3	0.471
4-1910	4-2170	0.598	139.2	1.0	-8.29	1.169	120.4	0.604	1.641	272.8	511.6	0.650	---	5.14	0.539	121.5	272.1	5.9	0.403
4-1910	4-2190	0.566	139.2	1.4	-7.68	1.152	119.1	0.572	1.546	272.7	517.7	0.662	---	4.85	0.509	114.8	271.1	6.4	0.348
4-1910	4-2210	0.544	139.4	1.8	-7.13	1.141	118.2	0.550	1.486	272.4	523.6	0.669	---	4.64	0.488	108.2	268.7	7.1	0.305
4-1910	4-2230	0.531	139.8	2.5	-6.61	1.133	117.8	0.537	1.448	271.9	529.3	0.671	---	4.50	0.475	101.9	264.8	7.7	0.274
4-1910	4-2250	0.526	140.4	3.2	-6.10	1.128	117.8	0.532	1.425	271.0	534.8	0.667	---	4.42	0.468	95.9	259.7	8.1	0.255
4-1910	4-2270	0.529	141.3	4.1	-5.61	1.125	118.1	0.533	1.411	269.7	539.9	0.658	---	4.39	0.464	90.2	254.0	8.2	0.248
4-1910	4-2290	0.540	142.4	5.0	-5.11	1.124	118.9	0.542	1.404	267.9	544.5	0.643	2.165	4.42	0.464	84.7	248.9	8.1	0.253
4-1910	4-2310	0.559	143.9	5.9	-4.60	1.124	120.1	0.557	1.403	265.5	548.6	0.622	2.184	4.51	0.465	79.5	245.1	7.7	0.269
4-1910	4-2330	0.586	145.7	6.7	-4.06	1.124	121.8	0.578	1.406	262.6	552.1	0.594	2.218	4.66	0.467	74.4	243.1	7.2	0.293
4-1910	4-2350	0.621	147.8	7.5	-3.47	1.125	123.9	0.605	1.412	259.0	555.1	0.558	2.265	4.89	0.470	69.3	242.8	6.6	0.324
4-1910	4-2370	0.666	150.2	8.1	-2.81	1.127	126.5	0.638	1.420	254.7	557.3	0.514	2.327	5.21	0.473	64.1	244.0	6.1	0.362
4-1910	4-2390	0.721	152.9	8.5	-2.06	1.130	129.7	0.677	1.431	249.7	558.8	0.462	2.401	5.66	0.477	58.8	246.6	5.7	0.405
4-1910	4-2410	0.787	155.9	8.7	-1.15	1.133	133.5	0.722	1.445	244.0	559.4	0.402	2.487	6.27	0.480	53.1	250.3	5.3	0.452
4-1910	4-2430	0.863	159.3	8.7	-0.03	1.136	138.0	0.771	1.460	237.5	559.2	0.335	2.585	7.11	0.484	47.0	255.1	5.0	0.505
4-1910	4-2450	0.951	162.9	8.4	1.45	1.139	143.2	0.822	1.477	230.1	558.2	0.263	2.692	8.33	0.487	40.5	260.6	4.7	0.562
4-1910	4-2470	1.049	166.8	7.8	3.54	1.143	149.0	0.873	1.497	222.0	556.2	0.189	2.804	10.16	0.491	33.5	266.9	4.4	0.623
4-1920	4-2120	0.755	146.0	-4.8	-12.53	1.272	125.2	0.776	2.774	276.9	491.4	0.622	---	9.34	0.722	140.1	272.7	6.7	0.650
4-1920	4-2140	0.676	145.7	-4.4	-11.05	1.228	122.4	0.695	2.124	277.1	497.4	0.647	---	8.16	0.647	133.9	274.6	6.9	0.550
4-1920	4-2160	0.616	145.5	-3.9	-9.87	1.197	120.2	0.634	1.827	277.3	503.6	0.688	---	7.30	0.591	127.6	275.8	7.3	0.468
4-1920	4-2180	0.570	145.3	-3.4	-8.89	1.174	118.5	0.589	1.665	277.5	509.8	0.685	---	6.66	0.550	121.1	276.2	7.8	0.400
4-1920	4-2200	0.537	145.4	-2.7	-8.05	1.158	117.2	0.555	1.568	277.5	516.0	0.697	---	6.18	0.520	114.6	275.4	8.5	0.345
4-1920	4-2220	0.513	145.5	-1.9	-7.31	1.147	116.3	0.532	1.507	277.4	522.1	0.705	---	5.83	0.500	108.4	273.2	9.2	0.302
4-1920	4-2240	0.499	146.0	-0.9	-6.63	1.139	115.8	0.518	1.468	276.9	528.0	0.707	---	5.57	0.487	102.4	269.5	9.9	0.270
4-1920	4-2260	0.492	146.6	0.1	-5.99	1.134	115.7	0.512	1.444	276.1	533.5	0.705	---	5.40	0.480	96.7	264.6	10.4	0.249
4-1920	4-2280	0.494	147.6	1.3	-5.39	1.131	116.0	0.512	1.429	274.9	538.7	0.698	---	5.30	0.476	91.3	259.1	10.5	0.241
4-1920	4-2300	0.502	148.8	2.4	-4.79	1.130	116.7	0.518	1.422	273.2	543.5	0.685	2.160	5.27	0.474	86.3	253.9	10.3	0.244
4-1920	4-2320	0.518	150.3	3.5	-4.19	1.129	117.7	0.531	1.421	271.0	547.8	0.666	2.175	5.31	0.475	81.4	249.9	9.7	0.256
4-1920	4-2340	0.541	152.1	4.5	-3.57	1.130	119.2	0.549	1.423	268.3	551.5	0.641	2.204	5.41	0.476	76.7	247.6	9.1	0.277
4-1920	4-2360	0.573	154.2	5.4	-2.92	1.131	121.0	0.573	1.429	264.9	554.6	0.610	2.247	5.60	0.478	72.0	246.9	8.4	0.305
4-1920	4-2380	0.612	156.6	6.1	-2.21	1.133	123.3	0.603	1.437	261.0	557.1	0.571	2.303	5.87	0.481	67.3	247.8	7.7	0.338
4-1920	4-2400	0.661	159.2	6.6	-1.43	1.135	126.1	0.638	1.447	256.4	559.0	0.524	2.370	6.26	0.483	62.4	250.1	7.1	0.376
4-1920	4-2420	0.718	162.1	6.9	-0.53	1.138	129.4	0.678	1.460	251.1	560.1	0.470	2.450	6.79	0.486	57.3	253.4	6.6	0.418
4-1920	4-2440	0.786	165.2	6.9	0.54	1.140	133.3	0.723	1.474	245.1	560.4	0.408	2.540	7.50	0.488	51.9	257.7	6.2	0.465
4-1920	4-2460	0.864	168.6	6.7	1.86	1.144	137.8	0.772	1.491	238.4	560.0	0.340	2.641	8.49	0.491	46.1	262.8	5.8	0.516
4-1920	4-2480	0.952	172.1	6.2	3.58	1.147	143.0	0.823	1.509	231.0	558.7	0.268	2.750	9.90	0.493	39.9	268.6	5.5	0.570
4-1920	4-2500	1.050	175.9	5.5	5.96	1.151	148.7	0.872	1.529	222.9	556.7	0.195	2.863	11.98	0.496	33.3	275.0	5.2	0.628
4-1930	4-2130	0.740	151.6	-12.3	-15.28	1.276	123.1	0.766	2.813	281.4	489.3	0.657	---	12.88	0.728	139.1	275.9	9.5	0.648
4-1930	4-2150	0.656	151.3	-10.9	-12.89	1.232	120.4	0.683	2.152	281.7	495.5	0.682	---	10.83	0.655	133.0	278.0	9.4	0.548
4-1930	4-2170	0.592	151.1	-9.7	-11.11	1.201	118.2	0.620	1.851	282.1	501.8	0.703	---	9.41	0.600	126.8	279.4	9.7	0.465
4-1930	4-2190	0.544	151.0	-8.5	-9.72	1.179	116.5	0.573	1.687	282.3	508.2	0.719	---	8.38	0.559	120.5	279.9	10.2	0.398
4-1930	4-2210	0.509	151.1	-7.3	-8.57	1.164	115.2	0.539	1.588	282.5	514.5	0.731	---	7.62	0.531	114.3	279.3	10.8	0.343
4-1930	4-2230	0.484	151.3	-6.0	-7.59	1.152	114.4	0.516	1.526	282.4	520.7	0.739	---	7.06	0.511	108.4	277.3	11.5	0.299
4-1930	4-2250	0.468	151.8	-4.7	-6.72	1.145	113.9	0.501	1.486	282.1	526.7	0.742	---	6.65	0.498	102.7	273.9	12.2	0.266
4-1930	4-2270	0.460	152.6	-3.2	-5.94	1.140	113.8	0.493	1.462	281.4	532.4	0.741	---	6.35	0.490	97.3	269.2	12.7	0.245
4-1930	4-2290	0.460	153.6	-1.8	-5.20	1.137	114.0	0.492	1.447	280.3	537.7	0.735	---	6.15	0.486	92.2	263.8	12.8	0.235
4-1930	4-2310	0.466	155.0	-0.3	-4.51	1.135	114.6	0.497	1.440	278.7	542.6	0.724	2.156	6.04	0.484	87.5	258.6	12.4	0.236
4-1930	4-2330	0.480	156.6	1.0	-3.82	1.135	115.5	0.508	1.438	276.6	546.9	0.708	2.168	6.00	0.484	82.9	254.4	11.8	0.246
4-1930	4-2350	0.500	158.4	2.2	-3.14	1.135	116.8	0.524	1.440	274.0	550.8	0.686	2.194	6.05	0.485	78.6	251.9	10.9	0.264
4-1930	4-2370	0.528	160.6	3.2	-2.44	1.137	118.4	0.545	1.445	270.8	554.1	0.658	2.233	6.17	0.486	74.3	251.0	10.0	0.288
4-1930	4-2390	0.563	162.9	4.1	-1.70	1.138	120.4	0.571	1.453	267.1	556.8	0.623	2.284	6.38	0.488	69.9	251.7	9.2	0.318
4-1930	4-2410	0.606	165.5	4.6	-0.90	1.140	122.9	0.602	1.464	262.8	559.0	0.582	2.345	6.69	0.489	65.5	253.6	8.5	0.352
4-1930	4-2430	0.657	168.3	5.0	-0.02	1.143	125.8	0.639	1.476	257.9	560.4	0.533	2.418	7.12	0.491	61.0	256.6	7.9	0.389
4-1930	4-2450	0.717	171.3	5.1	0.99	1.146	129.2	0.680	1.489	252.4	561.2	0.477	2.502	7.71	0.493	56.1	260.5	7.3	0.430
4-1930	4-2470	0.786	174.4	4.9	2.17	1.149	133.1	0.725	1.505	246.3	561.3	0.414	2.595	8.50	0.494	51.0	265.2	6.9	0.475
4-1930	4-2490	0.865	177.8	4.5	3.63	1.152	137.6	0.773	1.522	239.5	560.6	0.346	2.698	9.59	0.496	45.5	270.6	6.5	0.524
4-1930	4-2510	0.953	181.3	3.9	5.50	1.155	142.6	0.822	1.541	232.2	559.3	0.274	2.807	11.10	0.498	39.6	276.6	6.1	0.575
4-1930	4-2530	1.048	185.0	3.0	8.04	1.159	148.2	0.870	1.561	224.2	557.2	0.203	2.920	13.31	0.499	33.3	283.1	5.8	0.629
4-1940	4-2160	0.645	156.4	-19.4	-15.65	1.236	118.4	0.670	2.173	286.4	493.8	0.716	---	14.42	0.660	132.1	281.0	12.9	0.548
4-1940	4-2180	0.574	156.2	-16.9	-12.89	1.206	116.2	0.606	1.871	286.9	500.2	0.737	---	12.03	0.607	126.0	282.7	12.7	0.464
4-1940	4-2200	0.522	156.1	-14.7	-10.86	1.184	114.6	0.558	1.705	287.4	506.7	0.753	---	10.39	0.568	119.9	283.4	13.0	0.396
4-1940	4-2220	0.483	156.3	-12.7	-9.28	1.169	113.3	0.524	1.606	287.6	513.2	0.765	---	9.22	0.540	113.9	282.9	13.4	0.340

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1940	4-2240	0.456	156.7	-10.7	-7.99	1.158	112.4	0.499	1.543	287.7	519.5	0.773	---	8.37	0.520	108.2	281.1	14.0	0.297
4-1940	4-2260	0.439	157.3	-8.8	-6.89	1.151	112.0	0.484	1.504	287.5	525.6	0.776	---	7.74	0.508	102.8	277.9	14.7	0.264
4-1940	4-2280	0.429	158.2	-6.9	-5.93	1.146	111.8	0.476	1.479	286.8	531.4	0.775	---	7.28	0.500	97.7	273.3	15.1	0.242
4-1940	4-2300	0.427	159.4	-5.0	-5.07	1.143	112.0	0.474	1.464	285.8	536.8	0.770	---	6.95	0.495	92.9	268.0	15.0	0.230
4-1940	4-2320	0.432	160.9	-3.2	-4.26	1.141	112.5	0.478	1.457	284.3	541.7	0.761	2.153	6.73	0.493	88.4	262.9	14.6	0.229
4-1940	4-2340	0.444	162.7	-1.6	-3.49	1.141	113.3	0.487	1.455	282.3	546.2	0.746	2.164	6.61	0.492	84.2	258.7	13.7	0.238
4-1940	4-2360	0.462	164.7	-0.2	-2.75	1.141	114.5	0.501	1.457	279.8	550.1	0.727	2.187	6.57	0.492	80.1	256.0	12.7	0.253
4-1940	4-2380	0.486	166.9	1.0	-2.00	1.142	115.9	0.520	1.462	276.8	553.6	0.702	2.223	6.61	0.493	76.2	255.0	11.6	0.274
4-1940	4-2400	0.518	169.3	2.0	-1.24	1.144	117.8	0.543	1.470	273.2	556.5	0.672	2.269	6.75	0.494	72.2	255.4	10.6	0.301
4-1940	4-2420	0.556	171.9	2.7	-0.44	1.146	119.9	0.571	1.480	269.2	558.8	0.635	2.326	6.97	0.495	68.2	257.1	9.7	0.331
4-1940	4-2440	0.602	174.6	3.1	0.42	1.148	122.5	0.604	1.492	264.6	560.5	0.591	2.392	7.31	0.496	64.1	259.9	9.0	0.364
4-1940	4-2460	0.655	177.5	3.2	1.37	1.151	125.5	0.640	1.505	259.5	561.6	0.541	2.469	7.77	0.497	59.7	263.5	8.3	0.400
4-1940	4-2480	0.717	180.5	3.1	2.44	1.154	128.9	0.681	1.520	253.8	562.2	0.485	2.556	8.38	0.498	55.2	267.8	7.8	0.440
4-1940	4-2500	0.787	183.6	2.8	3.69	1.157	132.8	0.726	1.537	247.6	562.0	0.422	2.651	9.21	0.499	50.3	272.8	7.3	0.483
4-1940	4-2520	0.865	186.9	2.2	5.21	1.160	137.2	0.772	1.554	240.8	561.2	0.354	2.755	10.34	0.500	45.0	278.4	6.9	0.528
4-1940	4-2540	0.951	190.3	1.4	7.14	1.163	142.1	0.820	1.574	233.5	559.8	0.283	2.864	11.88	0.501	39.5	284.4	6.5	0.576
4-1950	4-2170	0.658	160.9	-30.9	-20.16	1.239	116.3	0.657	2.184	291.3	492.2	0.750	---	19.77	0.665	131.0	283.2	17.8	0.555
4-1950	4-2190	0.567	160.5	-26.1	-15.57	1.210	114.2	0.591	1.885	292.0	498.8	0.770	---	15.55	0.613	125.1	285.4	16.7	0.466
4-1950	4-2210	0.505	160.6	-22.3	-12.50	1.189	112.5	0.543	1.720	292.6	505.5	0.786	---	12.88	0.575	119.1	286.4	16.4	0.396
4-1950	4-2230	0.461	160.9	-19.1	-10.27	1.174	111.3	0.508	1.621	293.0	512.0	0.797	---	11.07	0.547	113.4	286.2	16.5	0.339
4-1950	4-2250	0.431	161.5	-16.1	-8.56	1.163	110.5	0.484	1.559	293.2	518.5	0.805	---	9.80	0.529	107.9	284.6	16.9	0.295
4-1950	4-2270	0.411	162.3	-13.4	-7.16	1.156	110.0	0.468	1.520	293.0	524.7	0.808	---	8.87	0.516	102.7	281.5	17.3	0.261
4-1950	4-2290	0.399	163.5	-10.8	-5.99	1.151	109.9	0.460	1.495	292.5	530.5	0.808	---	8.20	0.508	97.9	277.1	17.5	0.239
4-1950	4-2310	0.396	164.9	-8.4	-4.97	1.148	110.0	0.457	1.481	291.5	536.0	0.804	---	7.70	0.503	93.4	271.9	17.3	0.226
4-1950	4-2330	0.399	166.6	-6.1	-4.05	1.147	110.5	0.460	1.474	290.1	541.0	0.795	2.152	7.35	0.501	89.2	266.8	16.6	0.224
4-1950	4-2350	0.409	168.6	-4.2	-3.19	1.147	111.2	0.468	1.472	288.1	545.5	0.783	2.161	7.12	0.500	85.2	262.7	15.5	0.230
4-1950	4-2370	0.425	170.7	-2.5	-2.38	1.147	112.3	0.481	1.474	285.7	549.5	0.765	2.183	6.99	0.500	81.4	260.0	14.3	0.244
4-1950	4-2390	0.448	173.1	-1.1	-1.60	1.148	113.6	0.497	1.479	282.8	553.0	0.743	2.215	6.94	0.500	77.7	258.8	13.0	0.263
4-1950	4-2410	0.476	175.6	-0.0	-0.81	1.150	115.3	0.518	1.487	279.4	556.0	0.716	2.258	6.99	0.500	74.1	259.1	11.8	0.286
4-1950	4-2430	0.511	178.2	0.7	-0.02	1.152	117.2	0.543	1.497	275.5	558.5	0.684	2.310	7.13	0.501	70.4	260.6	10.8	0.312
4-1950	4-2450	0.552	180.9	1.2	0.81	1.154	119.5	0.572	1.509	271.2	560.4	0.645	2.372	7.36	0.501	66.7	263.1	9.9	0.342
4-1950	4-2470	0.600	183.7	1.4	1.70	1.156	122.1	0.605	1.522	266.3	561.8	0.601	2.443	7.70	0.502	62.8	266.5	9.2	0.374
4-1950	4-2490	0.655	186.6	1.3	2.68	1.159	125.2	0.642	1.536	261.1	562.7	0.550	2.523	8.16	0.502	58.7	270.6	8.6	0.409
4-1950	4-2510	0.717	189.6	1.0	3.77	1.162	128.6	0.682	1.552	255.3	563.0	0.493	2.611	8.79	0.502	54.4	275.3	8.0	0.447
4-1950	4-2530	0.786	192.7	0.5	5.04	1.165	132.5	0.726	1.569	249.1	562.7	0.430	2.707	9.61	0.502	49.8	280.4	7.6	0.487
4-1950	4-2550	0.863	195.9	-0.2	6.56	1.168	136.8	0.771	1.587	242.3	561.8	0.384	2.811	10.72	0.503	44.8	286.1	7.2	0.529
4-1960	4-2180	0.734	165.5	-47.2	-28.68	1.242	114.2	0.642	2.185	296.1	490.9	0.781	---	29.08	0.667	130.0	283.1	25.0	0.587
4-1960	4-2200	0.587	163.9	-38.4	-20.04	1.213	112.1	0.576	1.893	297.2	497.6	0.802	---	20.83	0.617	124.1	287.1	22.3	0.479
4-1960	4-2220	0.500	164.0	-32.0	-15.02	1.193	110.5	0.528	1.731	298.1	504.4	0.817	---	16.22	0.580	118.3	288.9	20.9	0.400
4-1960	4-2240	0.445	164.6	-26.8	-11.73	1.178	109.3	0.493	1.634	298.7	511.1	0.828	---	13.35	0.554	112.7	289.0	20.3	0.340
4-1960	4-2260	0.408	165.6	-22.5	-9.38	1.168	108.5	0.469	1.573	298.9	517.7	0.835	---	11.43	0.536	107.5	287.6	20.1	0.294
4-1960	4-2280	0.384	166.8	-18.6	-7.57	1.161	108.0	0.453	1.535	298.9	523.9	0.839	---	10.09	0.524	102.5	284.7	20.2	0.260
4-1960	4-2300	0.371	168.3	-15.1	-6.13	1.157	107.9	0.445	1.510	298.4	529.8	0.839	---	9.12	0.516	97.9	280.4	20.0	0.236
4-1960	4-2320	0.366	170.0	-11.9	-4.91	1.154	108.1	0.442	1.496	297.5	535.3	0.835	---	8.42	0.511	93.7	275.4	19.5	0.223
4-1960	4-2340	0.368	172.0	-9.1	-3.86	1.153	108.5	0.445	1.490	296.0	540.4	0.827	2.152	7.90	0.508	89.7	270.4	18.6	0.220
4-1960	4-2360	0.376	174.3	-6.7	-2.91	1.152	109.2	0.452	1.488	294.1	544.9	0.816	2.160	7.54	0.507	86.0	266.3	17.2	0.224
4-1960	4-2380	0.391	176.7	-4.7	-2.04	1.153	110.1	0.463	1.490	291.7	549.0	0.801	2.180	7.30	0.506	82.4	263.6	15.7	0.236
4-1960	4-2400	0.411	179.2	-3.1	-1.21	1.154	111.4	0.478	1.496	288.9	552.5	0.781	2.211	7.16	0.506	79.0	262.4	14.2	0.252
4-1960	4-2420	0.437	181.8	-1.9	-0.41	1.155	112.9	0.496	1.504	285.6	555.6	0.757	2.250	7.12	0.506	75.7	262.6	12.9	0.273
4-1960	4-2440	0.469	184.5	-1.0	0.38	1.157	114.6	0.519	1.514	281.8	558.2	0.729	2.299	7.16	0.506	72.3	264.0	11.7	0.297
4-1960	4-2460	0.506	187.3	-0.5	1.18	1.159	116.7	0.545	1.525	277.7	560.3	0.695	2.358	7.30	0.506	68.9	266.4	10.7	0.323
4-1960	4-2480	0.549	190.1	-0.3	2.02	1.162	119.1	0.574	1.538	273.1	561.9	0.655	2.422	7.52	0.506	65.4	269.6	9.9	0.352
4-1960	4-2500	0.598	192.9	-0.3	2.90	1.164	121.8	0.607	1.553	268.1	563.0	0.610	2.495	7.85	0.506	61.7	273.4	9.1	0.383
4-1960	4-2520	0.654	195.8	-0.6	3.87	1.167	124.8	0.644	1.568	262.7	563.6	0.559	2.577	8.30	0.505	57.9	277.8	8.6	0.416
4-1960	4-2540	0.716	198.7	-1.1	4.94	1.170	128.2	0.683	1.584	256.9	563.7	0.503	2.666	8.90	0.505	53.8	282.7	8.0	0.451
4-1960	4-2560	0.784	201.8	-1.7	6.17	1.173	132.0	0.725	1.602	250.7	563.3	0.441	2.763	9.69	0.505	49.4	288.0	7.6	0.488
4-1970	4-2210	0.677	166.8	-55.5	-28.60	1.216	110.0	0.561	1.895	302.5	496.7	0.831	---	30.19	0.619	123.1	286.2	30.1	0.521
4-1970	4-2230	0.524	165.9	-44.7	-19.27	1.196	108.4	0.513	1.738	303.7	503.6	0.847	---	21.25	0.584	117.4	290.1	26.8	0.417
4-1970	4-2250	0.441	167.0	-36.6	-13.99	1.182	107.2	0.478	1.644	304.5	510.5	0.858	---	16.39	0.559	112.0	291.1	24.9	0.347
4-1970	4-2270	0.391	168.5	-30.1	-10.59	1.172	106.5	0.455	1.585	305.0	517.1	0.864	---	13.41	0.542	106.9	290.1	23.9	0.296
4-1970	4-2290	0.361	170.3	-24.6	-8.19	1.166	106.0	0.439	1.548	305.0	523.5	0.867	---	11.44	0.530	102.2	287.4	23.3	0.260
4-1970	4-2310	0.344	172.4	-19.8	-6.36	1.162	105.9	0.431	1.524	304.6	529.4	0.867	---	10.08	0.522	97.8	283.3	22.7	0.235
4-1970	4-2330	0.337	174.6	-15.6	-4.90	1.159	106.1	0.428	1.511	303.7	534.9	0.864	---	9.10	0.517	93.8	278.4	21.7	0.220
4-1970	4-2350	0.337	177.1	-12.1	-3.69	1.158	106.5	0.430	1.505	302.2	539.9	0.857	---	8.39	0.514	90.1	273.6	20.4	0.216
4-1970	4-2370	0.345	179.7	-9.1	-2.63	1.158	107.2	0.437	1.504	300.3	544.5	0.847	2.160	7.88	0.513	86.6	269.6	18.7	0.219
4-1970	4-2390	0.358	182.4	-6.7	-1.69	1.158	108.1	0.447	1.507	298.0	548.5	0.834	2.179	7.52	0.512	83.2	266.9	16.9	0.229
4-1970	4-2410	0.377	185.2	-4.9	-0.83	1.159	109.2	0.460	1.512	295.1	552.1	0.816	2.208	7.27	0.511	80.1	265.8	15.2	0.243
4-1970	4-2430	0.401	188.0	-3.5	-0.02	1.161	110.6	0.477	1.521	291.9	555.2	0.795	2.246	7.13	0.511	77.0	265.9	13.7	0.262
4-1970	4-2450	0.430	190.8	-2.6	0.77	1.163	112.2	0.497	1.531	288.2	557.8	0.770	2.292	7.09	0.511	73.9	267.3	12.3	0.283
4-1970	4-2470	0.464	193.6	-2.0	1.54	1.165	114.1	0.520	1.542	284.2	560.0	0.740	2.345	7.12	0.510	70.8	269.5	11.2	0.307
4-1970	4-2490	0.503	196.5	-1.8	2.33	1.167	116.2	0.547	1.555	279.8	561.8	0.705	2.406	7.24	0.510	67.8	272.6	10.3	0.332
4-1970	4-2510	0.548	199.3	-1.8	3.14	1.170	118.6	0.576	1.569	275.1	563.1	0.665	2.474	7.45	0.509	64.3	276.2	9.5	0.359
4-1970	4-2530	0.597	202.1	-2.1	3.99	1.172	121.3	0.609	1.585	270.0	564.0	0.620	2.549	7.76	0.509	60.9	280.4	8.9	0.388
4-1970	4-2550	0.653	204.9	-2.5	4.91	1.175	124.3	0.644	1.601	264.5	564.4	0.569	2.632	8.17	0.508	57.2	285.1	8.3	0.419
4-1970	4-2570	0.714	207.8	-3.1	5.93	1.178	127.7	0.682	1.618	258.8	564.4	0.514	2.721	8.73	0.507	53.4	290.1	7.9	0.451
4-1980	4-2240	0.622	165.4	-62.1	-27.63	1.199	106.3	0.498	1.741	309.5	503.1	0.874	---	30.37	0.587	116.4	288.6	34.7	0.466
4-1980	4-2260	0.465	167.0	-49.4	-17.87	1.186	105.1	0.464	1.651	310.7	510.1	0.885	---	21.00	0.583	111.2	292.0	31.0	0.366
4-1980	4-2280	0.386	169.7	-39.6	-12.51	1.176	104.4	0.441	1.594	311.3	516.9	0.891	---	16.04	0.546	106.3	291.9	28.5	0.303
4-1980	4-2300	0.342	172.6	-31.7	-9.11	1.170	104.0	0.426	1.559	311.5	523.2	0.894	---	13.06	0.535	101.7	289.6	26.9	0.262
4-1980	4-2320	0.319	175.5	-25.1	-6.74	1.166	103.9	0.418	1.537	311.0	529.2	0.894	---	11.11	0.528	97.6	285.7	25.5	0.234

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-1980	4-2340	0.309	178.5	-19.5	-4.95	1.164	104.1	0.416	1.525	310.1	534.7	0.891	---	9.77	0.523	93.8	281.0	23.9	0.218
4-1980	4-2360	0.308	181.6	-14.9	-3.54	1.163	104.5	0.418	1.519	308.7	539.7	0.885	---	8.81	0.520	90.2	276.3	22.0	0.212
4-1980	4-2380	0.314	184.7	-11.2	-2.36	1.163	105.1	0.423	1.519	306.8	544.2	0.876	2.162	8.12	0.518	86.9	272.5	19.9	0.215
4-1980	4-2400	0.326	187.8	-8.4	-1.34	1.164	106.0	0.433	1.522	304.4	548.2	0.864	2.180	7.62	0.517	83.8	270.0	17.8	0.223
4-1980	4-2420	0.344	190.9	-6.2	-0.44	1.165	107.1	0.445	1.528	301.6	551.7	0.849	2.208	7.27	0.516	80.9	268.9	15.9	0.236
4-1980	4-2440	0.366	194.0	-4.7	0.39	1.166	108.4	0.460	1.537	298.3	554.8	0.830	2.244	7.03	0.516	78.0	269.1	14.2	0.252
4-1980	4-2460	0.393	197.0	-3.7	1.17	1.168	109.9	0.478	1.547	294.7	557.5	0.807	2.287	6.89	0.515	75.2	270.4	12.7	0.271
4-1980	4-2480	0.425	199.9	-3.1	1.91	1.170	111.6	0.499	1.559	290.8	559.8	0.781	2.337	6.84	0.514	72.3	272.6	11.5	0.292
4-1980	4-2500	0.461	202.8	-2.9	2.65	1.173	113.6	0.523	1.572	286.6	561.6	0.750	2.394	6.86	0.514	69.5	275.5	10.5	0.315
4-1980	4-2520	0.501	205.6	-3.0	3.38	1.175	115.7	0.549	1.586	282.0	563.1	0.715	2.457	6.97	0.513	66.5	279.1	9.7	0.339
4-1980	4-2540	0.546	208.4	-3.2	4.14	1.178	118.2	0.578	1.601	277.1	564.1	0.675	2.527	7.15	0.512	63.4	283.1	9.0	0.364
4-1980	4-2560	0.596	211.2	-3.7	4.93	1.180	120.8	0.610	1.617	272.0	564.8	0.631	2.604	7.42	0.511	60.2	287.5	8.4	0.391
4-1980	4-2580	0.650	214.0	-4.3	5.78	1.183	123.8	0.644	1.634	266.5	565.1	0.581	2.687	7.79	0.510	56.7	292.3	7.9	0.420
4-1990	4-2170	0.637	215.9	31.1	20.09	1.330	110.0	0.788	4.047	314.2	473.1	0.859	---	-18.02	0.808	136.4	293.3	-14.9	0.673
4-1990	4-2190	0.675	229.9	40.7	27.29	1.279	107.5	0.666	2.634	315.7	480.4	0.879	---	-24.88	0.725	130.9	292.7	-22.6	0.599
4-1990	4-2210	0.878	255.4	45.5	42.53	1.244	105.2	0.578	2.129	317.8	487.8	0.898	---	-39.76	0.665	125.3	286.1	-34.4	0.614
4-1990	4-2250	0.952	169.2	-86.6	-48.88	1.201	104.3	0.485	1.740	314.9	503.0	0.897	---	52.35	0.588	115.4	278.7	41.7	0.632
4-1990	4-2270	0.564	161.1	-66.3	-25.73	1.188	103.0	0.450	1.655	317.1	510.1	0.909	---	29.56	0.566	110.2	290.2	38.6	0.419
4-1990	4-2290	0.406	167.5	-51.9	-15.86	1.180	102.3	0.428	1.601	318.0	516.9	0.916	---	20.05	0.550	105.5	292.6	34.3	0.322
4-1990	4-2310	0.334	172.7	-40.5	-10.61	1.174	101.9	0.414	1.568	318.2	523.3	0.918	---	15.18	0.539	101.2	291.1	31.1	0.268
4-1990	4-2330	0.298	177.3	-31.2	-7.35	1.171	101.9	0.407	1.548	317.8	529.3	0.918	---	12.30	0.532	97.2	287.6	28.5	0.236
4-1990	4-2350	0.283	181.4	-23.6	-5.09	1.169	102.0	0.405	1.537	316.9	534.7	0.915	---	10.44	0.528	93.8	283.0	26.0	0.217
4-1990	4-2370	0.279	185.4	-17.6	-3.40	1.168	102.5	0.407	1.532	315.4	539.6	0.909	---	9.17	0.525	90.2	278.6	23.5	0.210
4-1990	4-2390	0.285	189.2	-13.0	-2.07	1.168	103.1	0.412	1.533	313.4	544.1	0.901	2.164	8.26	0.523	87.2	275.0	20.9	0.211
4-1990	4-2410	0.296	192.9	-9.5	-0.96	1.169	104.0	0.420	1.537	311.0	548.0	0.891	2.183	7.61	0.522	84.3	272.6	18.4	0.217
4-1990	4-2430	0.313	196.4	-7.1	-0.02	1.170	105.0	0.432	1.544	308.2	551.5	0.878	2.210	7.14	0.521	81.5	271.7	16.2	0.229
4-1990	4-2450	0.334	199.8	-5.4	0.82	1.172	106.2	0.445	1.553	304.9	554.6	0.861	2.244	6.81	0.520	78.8	272.0	14.4	0.244
4-1990	4-2470	0.359	203.0	-4.3	1.58	1.173	107.6	0.462	1.564	301.4	557.3	0.842	2.285	6.58	0.519	76.2	273.3	12.8	0.261
4-1990	4-2490	0.389	206.1	-3.8	2.30	1.176	109.2	0.481	1.576	297.5	559.5	0.819	2.333	6.44	0.518	73.8	275.5	11.5	0.279
4-1990	4-2510	0.422	209.1	-3.6	2.98	1.178	111.0	0.502	1.589	293.3	561.4	0.792	2.386	6.38	0.517	71.0	278.4	10.4	0.300
4-1990	4-2530	0.458	212.0	-3.7	3.65	1.180	113.0	0.525	1.603	288.9	563.0	0.761	2.448	6.40	0.516	68.3	281.8	9.6	0.321
4-1990	4-2550	0.499	214.8	-4.1	4.32	1.183	115.2	0.551	1.618	284.2	564.2	0.726	2.511	6.48	0.515	65.5	285.7	8.8	0.344
4-1990	4-2570	0.544	217.5	-4.6	5.00	1.185	117.6	0.580	1.634	279.3	565.1	0.687	2.581	6.63	0.513	62.6	290.0	8.2	0.367
4-1990	4-2590	0.593	220.3	-5.2	5.71	1.188	120.3	0.610	1.651	274.1	565.6	0.643	2.658	6.86	0.512	59.6	294.6	7.7	0.392
4-2000	4-2160	0.606	210.0	18.8	12.92	1.393	109.7	0.93012.506		319.0	465.3	0.872	---	-10.37	0.904	139.9	295.5	-8.0	0.756
4-2000	4-2180	0.545	214.8	26.5	15.28	1.324	107.1	0.761	3.731	320.2	472.6	0.890	---	-12.40	0.797	134.8	297.5	-11.1	0.633
4-2000	4-2200	0.531	222.3	35.6	18.88	1.276	104.8	0.644	2.543	321.8	480.1	0.906	---	-15.68	0.718	129.4	298.6	-16.0	0.543
4-2000	4-2220	0.585	235.8	44.8	25.14	1.242	102.9	0.560	2.091	323.6	487.9	0.920	---	-21.61	0.660	124.0	297.6	-24.3	0.490
4-2000	4-2240	0.782	260.6	49.6	38.55	1.219	101.2	0.500	1.864	325.8	495.7	0.932	---	-34.71	0.618	118.5	290.9	-36.8	0.517
4-2000	4-2280	0.912	61.4	-85.5	-47.34	1.190	101.0	0.439	1.655	323.1	510.4	0.929	---	51.83	0.567	109.3	280.6	44.4	0.602
4-2000	4-2300	0.497	155.5	-67.8	-22.90	1.183	100.1	0.417	1.605	325.0	517.3	0.937	---	27.71	0.552	104.6	291.0	41.5	0.375
4-2000	4-2320	0.347	168.6	-51.8	-13.29	1.177	99.8	0.404	1.575	325.4	523.8	0.939	---	18.43	0.542	100.4	291.8	36.3	0.285
4-2000	4-2340	0.284	176.7	-38.7	-8.35	1.174	99.8	0.397	1.557	325.0	529.7	0.939	---	13.83	0.536	96.7	288.9	32.0	0.240
4-2000	4-2360	0.259	182.9	-28.1	-5.34	1.173	100.0	0.395	1.547	324.0	535.0	0.936	---	11.16	0.531	93.2	284.6	28.2	0.217
4-2000	4-2380	0.252	188.3	-20.0	-3.27	1.172	100.4	0.397	1.544	322.4	939.8	0.931	---	9.45	0.529	90.1	280.4	24.7	0.208
4-2000	4-2400	0.256	193.1	-14.1	-1.74	1.172	101.1	0.402	1.546	320.4	544.2	0.924	2.167	8.29	0.527	87.2	277.0	21.5	0.207
4-2000	4-2420	0.267	197.4	-9.9	-0.54	1.173	101.9	0.410	1.551	317.9	548.0	0.915	2.186	7.46	0.525	84.5	275.0	18.6	0.213
4-2000	4-2440	0.283	201.5	-7.1	0.45	1.175	102.9	0.420	1.558	315.0	551.4	0.904	2.213	6.87	0.524	81.9	274.2	16.2	0.223
4-2000	4-2460	0.304	205.3	-5.2	1.30	1.176	104.1	0.433	1.568	311.7	554.4	0.889	2.247	6.44	0.523	79.5	274.6	14.2	0.236
4-2000	4-2480	0.328	208.8	-4.2	2.05	1.178	105.4	0.448	1.579	308.1	557.1	0.872	2.286	6.14	0.522	77.1	276.0	12.5	0.252
4-2000	4-2500	0.355	212.1	-3.7	2.73	1.180	106.9	0.465	1.592	304.3	559.3	0.852	2.331	5.93	0.521	74.7	278.3	11.1	0.268
4-2000	4-2520	0.385	215.3	-3.7	3.36	1.183	108.6	0.484	1.606	300.2	561.3	0.829	2.382	5.79	0.520	72.3	281.1	10.1	0.286
4-2000	4-2540	0.419	218.2	-3.9	3.96	1.185	110.4	0.505	1.620	295.9	562.9	0.802	2.438	5.73	0.519	69.9	284.5	9.2	0.305
4-2000	4-2560	0.456	221.1	-4.4	4.55	1.187	112.4	0.528	1.635	291.3	564.2	0.772	2.499	5.73	0.517	67.3	288.3	8.4	0.325
4-2000	4-2580	0.497	223.9	-5.0	5.13	1.190	114.6	0.553	1.651	286.6	565.2	0.737	2.565	5.79	0.516	64.8	292.5	7.8	0.346
4-2000	4-2600	0.541	226.6	-5.7	5.72	1.192	117.0	0.581	1.667	281.6	565.9	0.699	2.636	5.91	0.514	62.0	296.9	7.3	0.368
4-2010	4-2150	0.641	209.7	11.3	9.85	1.477	109.1	1.138-6.425		324.2	457.7	0.888	---	-6.75	1.024	143.1	296.5	-4.7	0.874
4-2010	4-2170	0.538	212.1	16.8	10.94	1.382	106.3	0.895	8.600	325.3	464.8	0.905	---	-7.54	0.885	138.3	298.9	-6.2	0.719
4-2010	4-2190	0.473	215.1	23.7	12.37	1.317	103.9	0.731	3.421	326.9	472.4	0.920	---	-8.67	0.783	133.2	301.0	-8.3	0.598
4-2010	4-2210	0.442	219.3	31.8	14.35	1.271	101.9	0.618	2.443	328.6	480.4	0.932	---	-10.38	0.709	127.8	302.4	-11.5	0.504
4-2010	4-2230	0.446	226.2	40.6	17.35	1.240	100.2	0.539	2.046	330.5	488.4	0.943	---	-13.09	0.654	122.4	302.9	-16.7	0.435
4-2010	4-2250	0.505	238.7	49.1	22.59	1.218	98.9	0.484	1.842	332.4	496.4	0.951	---	-18.04	0.615	117.2	301.4	-25.3	0.397
4-2010	4-2270	0.684	262.6	54.0	34.02	1.202	97.8	0.445	1.724	334.3	504.3	0.957	---	-29.20	0.587	112.1	294.9	-38.3	0.428
4-2010	4-2310	0.853	58.2	-80.2	-44.38	1.185	98.1	0.407	1.607	331.7	518.1	0.953	---	49.75	0.553	103.7	282.8	46.5	0.566
4-2010	4-2330	0.421	152.8	-66.2	-19.16	1.180	97.6	0.394	1.580	332.8	524.5	0.957	---	24.81	0.544	99.6	290.8	42.9	0.331
4-2010	4-2350	0.287	171.9	-48.2	-10.22	1.177	97.6	0.389	1.564	332.5	530.4	0.956	---	16.15	0.538	96.0	289.5	36.2	0.252
4-2010	4-2370	0.240	182.3	-33.3	-5.80	1.176	97.9	0.387	1.557	331.4	535.6	0.954	---	12.02	0.534	92.8	285.7	30.5	0.219
4-2010	4-2390	0.227	189.9	-22.0	-3.15	1.176	98.3	0.389	1.555	329.8	540.3	0.950	2.160	9.66	0.532	89.8	281.8	25.7	0.206
4-2010	4-2410	0.230	196.0	-14.2	-1.35	1.176	99.0	0.394	1.558	327.6	544.5	0.944	2.172	8.16	0.530	87.1	278.7	21.7	0.204
4-2010	4-2430	0.241	201.4	-9.1	-0.02	1.177	99.8	0.401	1.564	325.0	548.2	0.936	2.191	7.15	0.529	84.6	276.9	18.3	0.208
4-2010	4-2450	0.256	206.1	-5.9	1.01	1.179	100.8	0.411	1.572	322.0	551.5	0.926	2.218	6.43	0.527	82.2	276.4	15.6	0.218
4-2010	4-2470	0.276	210.3	-4.0	1.86	1.181	102.0	0.422	1.583	318.6	554.4	0.914	2.251	5.92	0.526	79.9	277.0	13.5	0.230
4-2010	4-2490	0.298	214.2	-3.1	2.58	1.183	103.2	0.436	1.595	315.0	557.0	0.900	2.289	5.54	0.525	77.7	278.6	11.7	0.244
4-2010	4-2510	0.324	217.8	-2.8	3.22	1.185	104.7	0.451	1.608	311.2	559.2	0.883	2.332	5.28	0.524	75.5	280.9	10.4	0.259
4-2010	4-2530	0.352	221.1	-3.0	3.79	1.187	106.2	0.468	1.622	307.1	561.1	0.863	2.381	5.09	0.523	73.3	283.8	9.3	0.275
4-2010	4-2550	0.383	224.3	-3.4	4.32	1.189	107.9	0.487	1.636	302.9	562.8	0.840	2.433	4.97	0.521	71.1	287.1	8.4	0.292
4-2010	4-2570	0.417	227.2	-4.1	4.83	1.192	109.8	0.508	1.652	298.4	564.1	0.813	2.491	4.90	0.520	68.8	290.9	7.7	0.310
4-2010	4-2590	0.453	230.1	-4.8	5.32	1.194	111.8	0.530	1.668	293.8	565.2	0.783	2.552	4.89	0.518	66.5	295.0	7.1	0.328
4-2010	4-2610	0.493	232.8	-5.7	5.80	1.197	113.9	0.555	1.684	289.0	566.1	0.750	2.618	4.93	0.517	64.1	299.3	6.6	0.347
4-2020	4-2160	0.572	212.1	10.8	8.87	1.458	105.2	1.08810.486		330.8	457.3	0.921	---	-4.85	0.996	141.4	299.7	-3.8	0.831

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2020	4-2180	0.475	213.6	16.2	9.57	1.368	102.7	0.854	6.380	332.3	464.9	0.934	---	-5.30	0.864	136.6	302.0	-4.6	0.681
4-2020	4-2200	0.412	215.1	22.6	10.43	1.307	100.6	0.698	3.126	334.1	472.9	0.945	---	-5.92	0.767	131.4	303.9	-6.0	0.564
4-2020	4-2220	0.376	217.3	29.9	11.55	1.265	98.8	0.591	2.335	336.2	481.2	0.955	---	-6.80	0.697	126.1	305.4	-8.1	0.472
4-2020	4-2240	0.363	220.6	37.7	13.11	1.236	97.4	0.518	1.994	338.3	489.5	0.962	---	-8.13	0.646	120.8	306.1	-11.3	0.400
4-2020	4-2260	0.377	226.3	45.5	15.47	1.216	96.3	0.467	1.814	340.2	497.7	0.967	---	-10.26	0.609	115.6	305.7	-16.4	0.346
4-2020	4-2280	0.430	237.1	52.9	19.59	1.202	95.5	0.432	1.709	341.8	505.6	0.971	---	-14.16	0.584	110.8	303.5	-24.9	0.317
4-2020	4-2300	0.579	259.5	58.2	28.75	1.192	94.9	0.408	1.645	343.1	513.1	0.973	---	-23.09	0.566	106.2	297.4	-38.3	0.344
4-2020	4-2320	1.131	302.8	49.8	61.25	1.186	94.2	0.392	1.605	344.9	520.2	0.976	---	-55.36	0.553	101.9	281.5	-46.7	0.613
4-2020	4-2340	0.765	68.8	-75.8	-39.61	1.182	95.5	0.387	1.582	340.1	525.6	0.969	---	45.71	0.545	98.8	285.2	48.2	0.517
4-2020	4-2360	0.335	156.5	-60.9	-14.50	1.180	95.4	0.382	1.569	340.3	531.4	0.970	---	20.83	0.540	95.3	289.3	42.0	0.286
4-2020	4-2380	0.231	178.2	-39.6	-6.71	1.179	95.7	0.381	1.564	339.2	536.5	0.968	---	13.26	0.536	92.2	286.3	33.2	0.225
4-2020	4-2400	0.206	189.8	-23.2	-3.01	1.179	96.2	0.383	1.564	337.4	541.0	0.965	2.164	9.79	0.534	89.4	282.7	26.3	0.205
4-2020	4-2420	0.206	198.0	-12.7	-0.83	1.180	96.9	0.388	1.568	335.0	545.0	0.960	2.177	7.84	0.532	86.9	280.0	21.2	0.200
4-2020	4-2440	0.217	204.5	-6.5	0.64	1.181	97.7	0.395	1.576	332.3	548.5	0.954	2.198	6.61	0.531	84.5	278.6	17.3	0.204
4-2020	4-2460	0.233	210.0	-3.0	1.71	1.183	98.7	0.403	1.585	329.2	551.7	0.946	2.225	5.78	0.530	82.3	278.4	14.4	0.213
4-2020	4-2480	0.251	214.8	-1.3	2.54	1.184	99.8	0.414	1.596	325.8	554.5	0.936	2.257	5.19	0.529	80.2	279.2	12.2	0.224
4-2020	4-2500	0.273	219.2	-0.7	3.22	1.186	101.1	0.426	1.609	322.1	557.0	0.924	2.295	4.77	0.528	78.1	280.9	10.5	0.237
4-2020	4-2520	0.296	223.1	-0.7	3.80	1.189	102.4	0.440	1.623	318.3	559.2	0.909	2.336	4.47	0.526	76.1	283.3	9.1	0.251
4-2020	4-2540	0.322	226.6	-1.2	4.30	1.191	103.9	0.455	1.637	314.2	561.0	0.892	2.382	4.24	0.525	74.1	286.3	8.1	0.265
4-2020	4-2560	0.350	230.0	-2.0	4.76	1.193	105.5	0.472	1.653	310.0	562.7	0.873	2.433	4.09	0.523	72.1	289.7	7.3	0.280
4-2020	4-2580	0.381	233.1	-2.9	5.18	1.196	107.2	0.490	1.668	305.6	564.1	0.850	2.487	3.98	0.522	70.1	293.4	6.6	0.296
4-2020	4-2600	0.414	236.0	-4.0	5.57	1.198	109.1	0.510	1.684	301.1	565.2	0.825	2.544	3.92	0.520	68.0	297.4	6.1	0.312
4-2020	4-2620	0.450	238.8	-5.0	5.96	1.201	111.1	0.532	1.701	296.5	566.2	0.796	2.606	3.90	0.519	65.8	301.6	5.6	0.329
4-2030	4-2150	0.639	212.2	7.0	7.78	1.560	103.5	1.377	-2.486	336.8	450.2	0.938	---	-3.04	1.138	144.1	300.3	-2.1	0.973
4-2030	4-2170	0.507	213.2	11.3	8.14	1.436	101.1	1.029	33.191	338.1	457.5	0.948	---	-3.20	0.964	139.7	302.5	-2.5	0.785
4-2030	4-2190	0.418	213.6	16.8	8.57	1.353	99.0	0.807	4.974	339.9	465.5	0.958	---	-3.43	0.840	134.8	304.7	-3.2	0.642
4-2030	4-2210	0.360	213.8	23.0	9.06	1.297	97.1	0.662	2.853	342.2	474.0	0.986	---	-3.74	0.749	129.6	306.4	-4.1	0.530
4-2030	4-2230	0.325	214.1	29.7	9.68	1.258	95.6	0.563	2.224	344.6	482.7	0.972	---	-4.18	0.683	124.3	307.7	-5.4	0.441
4-2030	4-2250	0.307	214.9	36.4	10.48	1.231	94.3	0.496	1.937	346.9	491.3	0.976	---	-4.80	0.636	119.0	308.2	-7.2	0.370
4-2030	4-2270	0.304	216.8	42.9	11.58	1.213	93.5	0.451	1.782	348.9	499.7	0.979	---	-5.73	0.603	114.0	307.8	-10.1	0.315
4-2030	4-2290	0.318	221.0	49.0	13.25	1.200	92.9	0.420	1.690	350.4	507.6	0.980	---	-7.24	0.579	109.2	306.2	-14.6	0.274
4-2030	4-2310	0.358	229.4	55.1	16.16	1.192	92.5	0.400	1.635	351.3	515.0	0.981	---	-9.98	0.563	104.9	302.9	-22.1	0.251
4-2030	4-2330	0.466	248.3	61.0	22.69	1.186	92.3	0.387	1.601	351.6	521.6	0.981	---	-16.36	0.552	100.9	297.4	-34.9	0.267
4-2030	4-2350	0.926	298.6	58.4	49.05	1.183	92.2	0.379	1.582	351.9	527.8	0.982	---	-42.56	0.545	97.3	286.4	-48.9	0.486
4-2030	4-2370	0.632	87.5	-72.2	-32.23	1.181	93.2	0.378	1.572	348.2	532.7	0.979	---	38.88	0.540	94.4	287.2	49.2	0.447
4-2030	4-2390	0.245	167.6	-49.0	-8.95	1.181	93.5	0.377	1.570	347.3	537.6	0.978	---	15.75	0.537	91.4	286.5	37.3	0.241
4-2030	4-2410	0.188	188.0	-23.1	-2.83	1.181	94.0	0.379	1.572	345.3	541.9	0.976	2.168	9.80	0.535	88.8	283.3	26.6	0.204
4-2030	4-2430	0.187	199.0	-8.3	-0.04	1.182	94.8	0.384	1.578	342.8	545.7	0.972	2.183	7.17	0.534	86.5	280.9	19.7	0.197
4-2030	4-2450	0.198	206.9	-1.1	1.57	1.184	95.6	0.390	1.586	339.8	549.1	0.967	2.205	5.72	0.533	84.3	279.9	15.3	0.200
4-2030	4-2470	0.214	213.3	2.3	2.65	1.186	96.6	0.398	1.597	336.6	552.1	0.961	2.233	4.81	0.532	82.2	280.0	12.2	0.209
4-2030	4-2490	0.232	218.7	3.5	3.43	1.188	97.7	0.407	1.609	333.1	554.7	0.954	2.265	4.20	0.531	80.3	281.2	10.1	0.219
4-2030	4-2510	0.251	223.4	3.5	4.03	1.190	98.9	0.418	1.623	329.4	557.1	0.944	2.302	3.77	0.529	78.4	283.1	8.5	0.231
4-2030	4-2530	0.273	227.7	2.8	4.52	1.192	100.2	0.431	1.637	325.4	559.2	0.932	2.342	3.46	0.528	76.6	285.6	7.3	0.244
4-2030	4-2550	0.296	231.6	1.8	4.93	1.194	101.6	0.444	1.652	321.4	561.0	0.918	2.387	3.23	0.527	74.7	288.7	6.4	0.257
4-2030	4-2570	0.322	235.1	0.5	5.29	1.197	103.2	0.459	1.668	317.2	562.7	0.902	2.435	3.07	0.525	72.9	292.1	5.7	0.271
4-2030	4-2590	0.349	238.5	-0.9	5.62	1.199	104.8	0.476	1.684	312.8	564.1	0.883	2.486	2.95	0.524	71.1	295.8	5.1	0.284
4-2030	4-2610	0.379	241.6	-2.3	5.91	1.202	106.5	0.494	1.701	308.4	565.3	0.861	2.540	2.86	0.522	69.2	299.8	4.7	0.299
4-2030	4-2630	0.410	244.5	-3.6	6.19	1.204	108.3	0.513	1.718	303.9	566.3	0.837	2.598	2.81	0.521	67.2	304.0	4.3	0.313
4-2040	4-2160	0.567	212.4	8.3	7.42	1.527	98.9	1.287	-3.355	344.2	450.6	0.983	---	-1.66	1.093	142.5	303.0	-1.2	0.916
4-2040	4-2180	0.449	212.3	13.0	7.61	1.412	96.9	0.962	25.692	346.0	458.5	0.969	---	-1.72	0.929	138.0	305.1	-1.4	0.738
4-2040	4-2200	0.370	211.4	18.6	7.82	1.336	95.0	0.758	4.022	348.4	467.0	0.975	---	-1.81	0.812	132.9	306.9	-1.8	0.602
4-2040	4-2220	0.319	209.9	24.7	8.06	1.284	93.4	0.624	2.605	351.1	476.0	0.979	---	-1.94	0.728	127.7	308.4	-2.2	0.496
4-2040	4-2240	0.287	208.3	30.7	8.35	1.249	92.2	0.536	2.113	353.8	485.1	0.982	---	-2.11	0.668	122.3	309.4	-2.9	0.412
4-2040	4-2260	0.269	206.9	36.3	8.69	1.225	91.2	0.476	1.877	356.3	494.0	0.983	---	-2.36	0.624	117.1	309.5	-3.8	0.344
4-2040	4-2280	0.261	206.2	41.1	9.15	1.209	90.5	0.437	1.746	358.4	502.4	0.984	---	-2.71	0.594	112.2	308.7	-5.1	0.291
4-2040	4-2300	0.261	206.9	45.3	9.77	1.198	90.1	0.410	1.668	359.7	510.3	0.984	---	-3.23	0.573	107.6	306.8	-7.1	0.249
4-2040	4-2320	0.269	209.4	49.2	10.70	1.190	89.9	0.393	1.622	0.4	157.4	---	---	-4.07	0.559	103.4	303.6	-10.2	0.219
4-2040	4-2340	0.290	215.0	53.3	12.33	1.186	89.9	0.383	1.594	0.3	163.8	---	---	-5.60	0.550	99.6	299.2	-15.3	0.201
4-2040	4-2360	0.347	227.4	59.0	15.98	1.183	90.1	0.377	1.579	359.6	529.5	0.984	---	-9.16	0.544	96.2	294.0	-25.0	0.203
4-2040	4-2380	0.625	273.0	66.0	31.92	1.182	90.4	0.375	1.573	358.4	534.7	0.984	---	-25.01	0.540	93.2	288.5	-45.8	0.318
4-2040	4-2400	0.424	122.4	-66.6	-20.46	1.182	91.2	0.375	1.573	355.5	539.0	0.983	---	27.48	0.537	90.6	287.3	47.0	0.339
4-2040	4-2420	0.176	185.0	-20.6	-2.47	1.183	91.8	0.378	1.578	353.4	543.1	0.982	2.174	9.55	0.536	88.1	283.4	26.0	0.203
4-2040	4-2440	0.176	200.2	1.5	1.38	1.184	92.6	0.382	1.585	350.7	546.6	0.980	2.191	5.80	0.535	85.9	281.5	16.3	0.192
4-2040	4-2460	0.190	209.2	8.8	3.06	1.186	93.5	0.388	1.596	347.6	549.8	0.977	2.214	4.21	0.534	83.9	280.9	11.4	0.197
4-2040	4-2480	0.205	216.0	11.0	4.02	1.188	94.5	0.395	1.608	344.2	552.6	0.973	2.242	3.34	0.533	82.0	281.5	8.6	0.205
4-2040	4-2500	0.221	221.8	10.9	4.65	1.190	95.6	0.403	1.621	340.5	555.1	0.967	2.275	2.80	0.532	80.2	283.0	6.8	0.216
4-2040	4-2520	0.237	227.0	9.8	5.10	1.192	96.7	0.413	1.636	336.7	557.4	0.960	2.311	2.44	0.531	78.5	285.1	5.6	0.227
4-2040	4-2540	0.256	231.6	8.2	5.45	1.195	98.0	0.424	1.651	332.8	559.3	0.951	2.350	2.19	0.530	76.8	287.8	4.7	0.239
4-2040	4-2560	0.276	235.8	6.3	5.73	1.197	99.4	0.436	1.667	328.7	561.1	0.940	2.393	2.00	0.528	75.2	290.9	4.1	0.251
4-2040	4-2580	0.298	239.6	4.3	5.97	1.200	100.8	0.449	1.683	324.4	562.7	0.927	2.439	1.87	0.527	73.5	294.4	3.6	0.263
4-2040	4-2600	0.321	243.2	2.4	6.18	1.202	102.4	0.464	1.700	320.2	564.1	0.911	2.488	1.77	0.525	71.8	298.2	3.2	0.275
4-2040	4-2620	0.347	246.6	0.5	6.36	1.205	104.0	0.480	1.717	315.8	565.3	0.893	2.540	1.70	0.524	70.1	302.2	2.9	0.288
4-2040	4-2640	0.375	249.7	-1.3	6.53	1.207	105.7	0.497	1.734	311.3	566.3	0.873	2.594	1.64	0.522	68.4	306.3	2.7	0.300
4-2050	4-2170	0.506	210.5	10.6	7.18	1.491	94.0	1.186	-5.260	352.5	451.8	0.979	---	-0.34	1.044	140.9	305.3	-0.3	0.857
4-2050	4-2190	0.402	208.9	15.7	7.22	1.387	92.4	0.891	8.984	354.9	460.3	0.981	---	-0.35	0.891	136.2	307.1	-0.3	0.690
4-2050	4-2210	0.335	206.2	21.3	7.26	1.317	90.9	0.706	3.345	357.9	469.5	0.983	---	-0.36	0.783	131.1	308.7	-0.4	0.562
4-2050	4-2230	0.292	202.8	26.9	7.30	1.271	89.6	0.587	2.383	1.0	119.0	---	---	-0.38	0.705	125.7	309.8	-0.5	0.462
4-2050	4-2250	0.266	199.3	31.8	7.35	1.239	88.6	0.510	2.005	4.1	128.4	---	---	-0.41	0.650	120.3	310.3	-0.6	0.383
4-2050	4-2270	0.250	196.2	35.8	7.41	1.218	87.9	0.459	1.814	6.7	137.5	---	---	-0.44	0.611	115.1	310.0	-0.8	0.320
4-2050	4-2290	0.241	194.0	38.8	7.49	1.203	87.4	0.426	1.706	8.7	145.9	---	---	-0.49	0.584	110.2	308.6	-1.0	0.270

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2050	4-2310	0.236	192.9	40.9	7.58	1.194	87.2	0.404	1.643	9.8	153.5	---	---	-0.57	0.566	105.8	306.0	-1.3	0.232
4-2050	4-2330	0.233	193.2	42.3	7.71	1.188	87.2	0.390	1.605	10.1	160.4	---	---	-0.68	0.554	101.7	302.3	-1.8	0.204
4-2050	4-2350	0.232	194.9	43.2	7.91	1.184	87.3	0.382	1.584	9.7	166.4	---	---	-0.85	0.546	98.1	297.7	-2.5	0.186
4-2050	4-2370	0.233	198.0	44.1	8.24	1.183	87.7	0.377	1.574	8.5	171.8	---	---	-1.17	0.541	94.9	292.9	-3.6	0.175
4-2050	4-2390	0.241	203.2	45.6	8.98	1.182	88.1	0.376	1.572	6.8	176.5	---	---	-1.88	0.538	92.1	288.4	-5.9	0.172
4-2050	4-2410	0.286	215.5	52.5	12.12	1.183	88.8	0.376	1.575	4.5	180.7	---	2.167	-5.01	0.537	89.6	285.1	-15.1	0.180
4-2050	4-2430	0.168	186.3	-5.5	-0.36	1.184	89.5	0.378	1.582	1.8	184.4	---	2.180	7.49	0.535	87.3	283.1	21.0	0.194
4-2050	4-2450	0.194	205.8	23.9	4.98	1.186	90.3	0.382	1.592	358.8	547.7	0.983	2.200	2.17	0.535	85.3	281.7	6.2	0.186
4-2050	4-2470	0.206	213.2	25.4	5.88	1.188	91.3	0.387	1.603	355.5	550.6	0.982	2.224	1.29	0.534	83.4	281.8	3.5	0.194
4-2050	4-2490	0.215	219.3	24.0	6.26	1.190	92.3	0.394	1.617	351.9	553.3	0.981	2.253	0.92	0.533	81.7	282.8	2.4	0.204
4-2050	4-2510	0.224	224.8	21.6	6.48	1.192	93.4	0.401	1.632	348.1	555.6	0.977	2.286	0.73	0.533	80.0	284.6	1.8	0.214
4-2050	4-2530	0.235	229.9	18.8	6.62	1.195	94.6	0.410	1.647	344.2	557.7	0.973	2.322	0.61	0.532	78.5	287.0	1.4	0.225
4-2050	4-2550	0.248	234.6	15.7	6.71	1.197	95.8	0.419	1.663	340.2	559.6	0.986	2.360	0.53	0.531	76.9	289.9	1.2	0.235
4-2050	4-2570	0.263	239.1	12.7	6.79	1.200	97.1	0.430	1.680	336.0	561.3	0.958	2.402	0.47	0.529	75.4	293.2	1.0	0.246
4-2050	4-2590	0.280	243.2	9.8	6.85	1.202	98.5	0.442	1.697	331.8	562.8	0.948	2.446	0.43	0.528	73.9	296.7	0.9	0.257
4-2050	4-2610	0.300	247.1	7.0	6.90	1.204	100.0	0.454	1.714	327.5	564.1	0.935	2.493	0.40	0.527	72.4	300.5	0.8	0.268
4-2050	4-2630	0.321	250.8	4.4	6.95	1.207	101.5	0.468	1.732	323.2	565.3	0.921	2.542	0.38	0.525	70.8	304.5	0.7	0.279
4-2050	4-2650	0.345	254.2	2.0	6.99	1.209	103.1	0.483	1.749	318.8	566.4	0.904	2.594	0.36	0.524	69.3	308.6	0.6	0.290
4-2060	4-2160	0.607	208.0	9.0	7.13	1.603	90.2	1.527	-1.868	359.6	445.7	0.984	---	0.93	1.197	143.8	305.5	0.6	1.014
4-2060	4-2180	0.463	206.0	13.6	7.04	1.454	89.0	1.080	12.338	1.9	94.1	---	---	0.93	0.992	139.4	307.1	0.7	0.799
4-2060	4-2200	0.373	202.5	18.8	6.93	1.359	87.8	0.818	5.381	5.0	103.4	---	---	0.94	0.850	134.4	308.7	0.9	0.642
4-2060	4-2220	0.319	197.9	23.9	6.83	1.297	86.6	0.656	2.846	8.6	113.3	---	---	0.98	0.750	129.1	309.8	1.1	0.522
4-2060	4-2240	0.285	193.0	28.3	6.72	1.256	85.6	0.554	2.187	12.2	123.2	---	---	0.99	0.679	123.6	310.5	1.3	0.429
4-2060	4-2260	0.265	188.4	31.6	6.59	1.228	84.9	0.489	1.900	15.5	132.9	---	---	1.04	0.630	118.2	310.4	1.6	0.356
4-2060	4-2280	0.252	184.7	33.7	6.45	1.209	84.4	0.447	1.750	18.1	141.9	---	---	1.12	0.595	113.0	309.4	2.1	0.298
4-2060	4-2300	0.243	182.3	34.9	6.29	1.197	84.2	0.419	1.665	19.8	150.1	---	---	1.22	0.572	108.2	307.3	2.6	0.253
4-2060	4-2320	0.235	181.0	35.1	6.08	1.189	84.2	0.402	1.615	20.5	157.3	---	---	1.35	0.557	103.8	304.0	3.3	0.220
4-2060	4-2340	0.228	180.9	34.6	5.83	1.185	84.3	0.391	1.587	20.4	163.7	---	---	1.55	0.547	99.9	299.8	4.3	0.197
4-2060	4-2360	0.220	181.6	33.1	5.48	1.182	84.6	0.384	1.572	19.5	169.4	---	---	1.84	0.541	96.5	295.1	5.4	0.182
4-2060	4-2380	0.211	183.0	30.5	4.96	1.181	85.1	0.381	1.567	18.0	174.3	---	---	2.31	0.538	93.5	290.5	7.1	0.176
4-2060	4-2400	0.199	184.3	25.4	4.08	1.182	85.7	0.380	1.569	15.8	178.6	---	---	3.14	0.536	90.8	286.7	9.6	0.176
4-2060	4-2420	0.184	183.7	14.0	2.20	1.183	86.4	0.380	1.575	13.3	182.5	---	2.173	4.96	0.535	88.5	284.1	14.6	0.183
4-2060	4-2440	0.198	169.1	-28.5	-4.85	1.184	87.1	0.382	1.584	10.4	185.9	---	2.189	11.96	0.534	86.4	283.7	29.9	0.221
4-2060	4-2460	0.643	271.3	70.2	32.74	1.186	88.1	0.385	1.596	6.7	188.9	---	2.210	-25.69	0.534	84.5	288.2	-44.3	0.330
4-2060	4-2480	0.311	226.7	50.7	13.51	1.188	89.1	0.389	1.610	3.4	191.6	---	2.238	-6.50	0.534	82.8	283.3	-16.7	0.209
4-2060	4-2500	0.269	225.6	41.5	10.70	1.191	90.1	0.395	1.625	359.7	554.0	0.984	2.268	-3.74	0.533	81.2	284.4	-9.4	0.210
4-2060	4-2520	0.256	228.6	35.3	9.57	1.193	91.2	0.401	1.641	355.8	556.2	0.983	2.299	-2.66	0.533	79.7	286.4	-6.4	0.217
4-2060	4-2540	0.253	232.7	30.1	8.94	1.196	92.4	0.408	1.657	351.8	558.2	0.981	2.334	-2.09	0.532	78.3	289.0	-4.8	0.226
4-2060	4-2560	0.256	237.1	25.4	8.54	1.199	93.6	0.417	1.675	347.7	559.9	0.977	2.372	-1.74	0.531	76.9	292.0	-3.8	0.235
4-2060	4-2580	0.262	241.5	21.0	8.26	1.201	94.9	0.426	1.692	343.5	561.5	0.971	2.413	-1.50	0.530	75.5	295.4	-3.2	0.245
4-2060	4-2600	0.272	245.9	16.9	8.04	1.204	96.3	0.436	1.710	339.3	563.0	0.964	2.458	-1.34	0.529	74.1	299.0	-2.7	0.254
4-2060	4-2620	0.286	250.0	13.2	7.87	1.206	97.7	0.447	1.728	335.0	564.3	0.955	2.501	-1.22	0.527	72.7	302.8	-2.3	0.263
4-2060	4-2640	0.302	254.0	9.7	7.73	1.209	99.1	0.459	1.746	330.7	565.5	0.944	2.548	-1.13	0.526	71.4	306.8	-2.1	0.273
4-2060	4-2660	0.320	257.7	6.6	7.60	1.211	100.6	0.472	1.764	326.3	566.5	0.931	2.597	-1.07	0.525	69.9	310.9	-1.9	0.282
4-2070	4-2170	0.568	203.0	11.9	7.22	1.550	84.6	1.360	-2.710	9.4	88.4	---	---	2.20	1.126	142.7	307.0	1.6	0.942
4-2070	4-2190	0.443	199.1	16.6	6.98	1.416	83.8	0.973	35.526	12.5	97.7	---	---	2.17	0.937	138.0	308.4	1.8	0.741
4-2070	4-2210	0.369	193.8	21.2	6.75	1.331	82.9	0.747	3.826	16.5	107.9	---	---	2.16	0.806	132.7	309.5	2.2	0.594
4-2070	4-2230	0.326	188.2	25.0	6.51	1.276	82.2	0.611	2.468	20.8	118.5	---	---	2.18	0.715	127.2	310.2	2.6	0.483
4-2070	4-2250	0.300	182.9	27.7	6.26	1.239	81.5	0.527	2.014	24.7	128.8	---	---	2.23	0.651	121.5	310.2	3.1	0.397
4-2070	4-2270	0.284	178.7	29.3	5.99	1.215	81.1	0.474	1.801	27.9	138.4	---	---	2.31	0.608	116.0	309.4	3.8	0.330
4-2070	4-2290	0.273	175.7	29.9	5.70	1.200	80.9	0.441	1.687	30.2	147.1	---	---	2.42	0.578	110.8	307.6	4.7	0.279
4-2070	4-2310	0.263	173.9	29.7	5.37	1.190	80.9	0.419	1.621	31.4	154.8	---	---	2.59	0.559	106.0	304.8	5.8	0.240
4-2070	4-2330	0.254	173.1	28.8	4.99	1.184	81.0	0.405	1.585	31.6	161.5	---	---	2.82	0.546	101.8	300.9	7.1	0.212
4-2070	4-2350	0.245	173.2	27.1	4.53	1.180	81.3	0.397	1.565	30.9	167.4	---	---	3.14	0.539	98.0	296.4	8.7	0.194
4-2070	4-2370	0.234	173.9	24.5	3.94	1.179	81.8	0.391	1.558	29.5	172.5	---	---	3.59	0.535	94.8	291.8	10.4	0.184
4-2070	4-2390	0.223	174.9	20.5	3.14	1.179	82.4	0.388	1.558	27.5	177.0	---	---	4.25	0.533	91.9	287.8	12.5	0.182
4-2070	4-2410	0.210	175.7	13.9	1.98	1.180	83.1	0.387	1.563	25.1	180.9	---	2.167	5.28	0.532	89.4	284.9	15.3	0.186
4-2070	4-2430	0.200	175.2	2.4	0.05	1.182	83.9	0.387	1.572	22.2	184.4	---	2.181	7.08	0.532	87.2	283.2	19.5	0.196
4-2070	4-2450	0.206	169.8	-20.2	-3.85	1.184	84.7	0.388	1.584	19.0	187.5	---	2.199	10.88	0.532	85.3	283.3	27.1	0.220
4-2070	4-2470	0.362	136.2	-55.9	-16.25	1.186	85.6	0.391	1.599	15.8	190.3	---	2.223	23.15	0.532	83.5	287.7	41.9	0.311
4-2070	4-2510	0.479	246.5	63.5	23.32	1.191	87.9	0.398	1.631	7.3	194.8	---	2.280	-16.66	0.532	80.6	289.2	-33.5	0.273
4-2070	4-2530	0.353	236.7	51.7	15.88	1.194	89.0	0.403	1.648	3.4	196.8	---	2.313	-9.34	0.532	79.2	289.2	-20.8	0.239
4-2070	4-2550	0.308	236.8	43.4	12.98	1.197	90.2	0.409	1.666	359.4	558.7	0.984	2.349	-6.55	0.532	77.9	291.5	-14.5	0.237
4-2070	4-2570	0.288	239.6	36.8	11.42	1.199	91.4	0.416	1.685	355.2	560.3	0.983	2.388	-5.10	0.531	76.6	294.4	-11.0	0.241
4-2070	4-2590	0.280	243.4	30.9	10.42	1.202	92.7	0.424	1.703	351.0	561.8	0.981	2.426	-4.22	0.530	75.4	297.8	-8.8	0.247
4-2070	4-2610	0.279	247.6	25.7	9.73	1.205	94.0	0.433	1.722	346.8	563.2	0.976	2.468	-3.64	0.529	74.2	301.4	-7.3	0.254
4-2070	4-2630	0.283	251.8	20.8	9.20	1.207	95.3	0.443	1.741	342.5	564.5	0.970	2.511	-3.23	0.528	72.9	305.2	-6.2	0.262
4-2070	4-2650	0.291	256.1	16.4	8.79	1.210	96.7	0.453	1.759	338.2	565.6	0.962	2.556	-2.93	0.527	71.7	309.2	-5.5	0.269
4-2070	4-2670	0.304	260.1	12.4	8.44	1.212	98.2	0.464	1.778	333.9	566.7	0.952	2.603	-2.71	0.526	70.4	313.3	-4.9	0.277
4-2080	4-2180	0.557	196.4	14.6	7.39	1.496	78.7	1.197	-4.833	20.7	92.7	---	---	3.49	1.053	141.7	307.8	2.6	0.873
4-2080	4-2200	0.451	191.0	18.6	7.01	1.376	78.4	0.872	7.344	24.9	103.2	---	---	3.39	0.879	136.6	308.8	3.0	0.686
4-2080	4-2220	0.391	185.1	21.9	6.64	1.301	78.0	0.686	2.968	29.8	114.2	---	---	3.34	0.760	131.0	309.4	3.5	0.550
4-2080	4-2240	0.356	179.8	24.2	6.27	1.253	77.6	0.576	2.175	34.4	125.2	---	---	3.32	0.678	125.2	309.5	4.1	0.447
4-2080	4-2260	0.335	175.5	25.4	5.90	1.222	77.3	0.510	1.863	38.3	135.5	---	---	3.35	0.621	119.3	308.9	4.9	0.369
4-2080	4-2280	0.320	172.4	25.7	5.51	1.202	77.2	0.469	1.709	41.2	144.8	---	---	3.42	0.584	113.7	307.3	5.9	0.309
4-2080	4-2300	0.309	170.4	25.4	5.10	1.189	77.2	0.443	1.624	42.8	152.9	---	---	3.54	0.559	108.4	304.7	7.1	0.263
4-2080	4-2320	0.298	169.5	24.5	4.65	1.181	77.4	0.426	1.578	43.3	159.9	---	---	3.72	0.543	103.7	301.1	8.5	0.231
4-2080	4-2340	0.287	169.3	22.9	4.15	1.177	77.8	0.415	1.553	42.8	165.9	---	---	3.97	0.534	99.6	296.8	10.1	0.209
4-2080	4-2360	0.276	169.7	20.8	3.56	1.175	78.3	0.408	1.542	41.6	171.1	---	---	4.31	0.530	96.0	292.3	11.7	0.196
4-2080	4-2380	0.264	170.6	17.8	2.86	1.175	78.9	0.403	1.541	39.6	175.7	---	---	4.79	0.527	92.9	288.3	13.4	0.190

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2080	4-2400	0.251	171.5	13.6	1.98	1.176	79.6	0.400	1.546	37.2	179.7	---	---	5.46	0.527	90.2	285.1	15.2	0.191
4-2080	4-2420	0.239	172.4	7.5	0.80	1.178	80.4	0.398	1.555	34.3	183.2	---	2.174	6.44	0.527	87.9	283.2	17.5	0.196
4-2080	4-2440	0.229	172.4	-1.7	-0.90	1.180	81.3	0.397	1.568	31.1	186.3	---	2.191	7.94	0.528	85.9	282.4	20.6	0.206
4-2080	4-2460	0.229	170.1	-16.3	-3.63	1.182	82.2	0.398	1.583	27.7	189.1	---	2.212	10.48	0.529	84.1	283.1	25.3	0.224
4-2080	4-2480	0.269	160.2	-38.3	-8.86	1.185	83.2	0.399	1.599	24.1	191.6	---	2.238	15.53	0.530	82.5	285.6	32.8	0.259
4-2080	4-2500	0.480	121.3	-58.3	-22.93	1.188	84.1	0.402	1.617	20.7	193.9	---	2.267	29.41	0.530	81.0	293.4	44.1	0.370
4-2080	4-2540	0.682	266.9	71.9	34.69	1.194	87.0	0.407	1.654	10.5	197.5	---	2.328	-28.55	0.531	78.7	299.2	-42.6	0.368
4-2080	4-2560	0.452	246.0	59.0	21.56	1.197	88.0	0.412	1.674	6.8	199.2	---	2.364	-15.60	0.531	77.5	296.1	-29.8	0.280
4-2080	4-2580	0.368	243.6	49.6	16.56	1.200	89.2	0.418	1.693	2.7	200.8	---	2.402	-10.76	0.530	76.3	297.7	-21.6	0.261
4-2080	4-2600	0.327	245.3	42.1	13.92	1.202	90.4	0.425	1.713	358.5	562.2	0.985	2.441	-8.29	0.530	75.2	300.6	-16.6	0.258
4-2080	4-2620	0.306	248.7	35.6	12.27	1.205	91.7	0.432	1.733	354.3	563.5	0.984	2.481	-6.82	0.529	74.1	304.0	-13.4	0.260
4-2080	4-2640	0.297	252.7	29.7	11.13	1.208	93.0	0.440	1.752	350.0	564.7	0.981	2.523	-5.85	0.528	73.0	307.8	-11.2	0.264
4-2080	4-2660	0.294	256.9	24.4	10.27	1.210	94.4	0.449	1.771	345.8	565.8	0.976	2.567	-5.17	0.527	71.8	311.7	-9.6	0.269
4-2080	4-2680	0.297	261.3	19.5	9.60	1.213	95.8	0.459	1.791	341.5	566.8	0.969	2.612	-4.67	0.527	70.7	315.7	-8.5	0.275
4-2090	4-2190	0.577	189.5	16.2	7.67	1.442	72.6	1.047	19.031	34.0	99.0	---	---	4.83	0.979	141.1	307.8	3.7	0.809
4-2090	4-2210	0.487	183.8	19.1	7.12	1.336	72.8	0.786	4.148	39.4	110.6	---	---	4.63	0.819	135.5	308.3	4.2	0.636
4-2090	4-2230	0.436	178.6	21.0	6.60	1.271	72.8	0.640	2.431	44.8	122.3	---	---	4.49	0.711	129.4	308.4	4.8	0.510
4-2090	4-2250	0.405	174.4	22.0	6.10	1.230	72.8	0.556	1.945	49.4	133.3	---	---	4.40	0.638	123.2	307.7	5.7	0.416
4-2090	4-2270	0.385	171.5	22.2	5.61	1.204	72.9	0.506	1.732	52.7	143.1	---	---	4.38	0.589	117.0	306.3	6.7	0.345
4-2090	4-2290	0.369	169.6	21.8	5.11	1.188	73.1	0.475	1.623	54.7	151.5	---	---	4.41	0.558	111.2	303.9	7.9	0.292
4-2090	4-2310	0.356	168.6	20.9	4.60	1.178	73.4	0.455	1.565	55.5	158.7	---	---	4.50	0.538	106.0	300.5	9.2	0.253
4-2090	4-2330	0.343	168.4	19.6	4.06	1.172	73.9	0.441	1.534	55.2	164.9	---	---	4.65	0.527	101.3	296.4	10.7	0.227
4-2090	4-2350	0.330	168.6	17.9	3.47	1.170	74.4	0.431	1.520	54.0	170.2	---	---	4.88	0.521	97.3	292.1	12.1	0.210
4-2090	4-2370	0.317	169.3	15.6	2.82	1.169	75.1	0.424	1.518	52.1	174.8	---	---	5.21	0.519	93.8	288.1	13.5	0.202
4-2090	4-2390	0.303	170.3	12.6	2.06	1.170	75.9	0.419	1.522	49.6	178.8	---	---	5.65	0.519	90.9	284.9	14.8	0.199
4-2090	4-2410	0.289	171.3	8.7	1.16	1.172	76.8	0.415	1.532	46.7	182.3	---	2.169	6.26	0.520	88.4	282.7	16.3	0.202
4-2090	4-2430	0.275	172.2	3.5	0.03	1.174	77.7	0.413	1.546	43.5	185.4	---	2.183	7.11	0.521	86.2	281.8	18.1	0.208
4-2090	4-2450	0.264	172.6	-3.8	-1.46	1.177	78.6	0.411	1.562	40.0	188.2	---	2.203	8.33	0.523	84.4	281.9	20.3	0.217
4-2090	4-2470	0.259	171.8	-14.1	-3.56	1.180	79.7	0.410	1.579	36.3	190.7	---	2.227	10.17	0.525	82.7	283.1	23.5	0.231
4-2090	4-2490	0.271	167.8	-28.5	-6.82	1.183	80.7	0.410	1.598	32.5	192.9	---	2.254	13.19	0.527	81.3	285.5	28.1	0.252
4-2090	4-2510	0.332	155.1	-46.3	-12.71	1.187	81.7	0.412	1.618	28.7	195.0	---	2.284	18.85	0.528	80.0	289.8	35.0	0.292
4-2090	4-2530	0.546	118.3	-57.8	-26.43	1.190	82.7	0.414	1.638	25.1	196.9	---	2.317	32.33	0.529	78.7	299.1	43.9	0.400
4-2090	4-2570	0.913	295.3	78.9	47.90	1.196	86.1	0.417	1.680	13.2	199.7	---	2.380	-42.45	0.529	77.0	312.2	-45.8	0.485
4-2090	4-2590	0.566	253.5	65.2	27.96	1.199	87.1	0.422	1.701	9.8	201.2	---	2.418	-22.73	0.529	75.9	304.8	-36.6	0.332
4-2090	4-2610	0.434	249.0	54.7	20.39	1.202	88.2	0.427	1.721	5.9	202.6	---	2.457	-15.38	0.529	74.8	305.0	-27.7	0.291
4-2090	4-2630	0.371	249.9	46.6	16.49	1.205	89.5	0.433	1.742	1.7	203.8	---	2.497	-11.70	0.528	73.8	307.5	-21.7	0.278
4-2090	4-2650	0.335	252.9	39.6	14.10	1.208	90.8	0.440	1.762	357.5	565.0	0.987	2.538	-9.53	0.528	72.8	310.8	-17.7	0.274
4-2090	4-2670	0.315	256.8	33.4	12.47	1.210	92.1	0.447	1.782	353.3	566.1	0.985	2.580	-8.11	0.527	71.8	314.4	-14.9	0.275
4-2090	4-2690	0.305	261.2	27.7	11.26	1.213	93.4	0.455	1.802	349.1	567.1	0.982	2.623	-7.13	0.527	70.8	318.3	-12.9	0.277
4-2100	4-2200	0.626	183.8	16.5	8.08	1.389	66.3	0.924	10.786	49.6	107.7	---	---	6.24	0.903	140.8	306.8	4.7	0.753
4-2100	4-2220	0.545	178.9	18.2	7.33	1.296	67.0	0.724	2.929	55.7	120.1	---	---	5.88	0.757	134.5	306.8	5.4	0.592
4-2100	4-2240	0.498	174.9	19.0	6.64	1.240	67.4	0.616	2.068	61.1	131.8	---	---	5.62	0.660	127.9	306.2	6.1	0.476
4-2100	4-2260	0.467	172.2	19.2	6.00	1.206	67.9	0.554	1.762	65.0	142.0	---	---	5.44	0.596	121.2	304.7	7.1	0.390
4-2100	4-2280	0.445	170.4	18.8	5.39	1.185	68.3	0.517	1.619	67.3	150.7	---	---	5.33	0.555	114.7	302.5	8.2	0.327
4-2100	4-2300	0.427	169.5	17.9	4.79	1.173	68.9	0.493	1.545	68.2	158.1	---	---	5.30	0.530	108.7	299.3	9.5	0.282
4-2100	4-2320	0.411	169.2	16.8	4.18	1.166	69.5	0.476	1.508	67.9	164.3	---	---	5.33	0.516	103.4	295.4	10.8	0.250
4-2100	4-2340	0.395	169.5	15.3	3.56	1.163	70.2	0.464	1.491	66.7	169.6	---	---	5.44	0.509	98.7	291.3	12.0	0.229
4-2100	4-2360	0.380	170.1	13.5	2.91	1.162	71.0	0.454	1.487	64.8	174.2	---	---	5.62	0.506	94.8	287.4	13.1	0.217
4-2100	4-2380	0.364	171.0	11.2	2.21	1.163	71.9	0.447	1.492	62.3	178.1	---	---	5.89	0.507	91.5	284.2	14.2	0.212
4-2100	4-2400	0.348	172.0	8.4	1.42	1.165	72.8	0.440	1.503	59.3	181.6	---	2.164	6.27	0.509	88.7	282.0	15.2	0.212
4-2100	4-2420	0.332	173.1	4.9	0.53	1.167	73.8	0.435	1.517	56.0	184.7	---	2.177	6.79	0.512	86.4	280.9	16.3	0.215
4-2100	4-2440	0.317	174.1	0.5	-0.53	1.171	74.8	0.431	1.534	52.5	187.4	---	2.196	7.50	0.515	84.4	280.8	17.6	0.221
4-2100	4-2460	0.303	174.8	-5.3	-1.85	1.174	75.9	0.428	1.553	48.7	189.9	---	2.219	8.48	0.518	82.7	281.6	19.3	0.229
4-2100	4-2480	0.294	174.7	-13.0	-3.55	1.178	77.0	0.426	1.574	44.8	192.2	---	2.244	9.86	0.520	81.2	283.4	21.6	0.239
4-2100	4-2500	0.294	173.1	-23.1	-5.89	1.181	78.1	0.425	1.595	40.8	194.2	---	2.273	11.90	0.522	80.0	286.0	24.7	0.254
4-2100	4-2520	0.314	168.0	-36.1	-9.43	1.185	79.3	0.425	1.617	36.8	196.1	---	2.304	15.15	0.524	78.8	289.6	29.1	0.276
4-2100	4-2540	0.382	154.0	-50.2	-15.45	1.188	80.4	0.425	1.639	32.8	197.8	---	2.336	20.89	0.526	77.7	294.9	35.4	0.316
4-2100	4-2560	0.577	121.2	-57.4	-27.91	1.192	81.4	0.427	1.662	29.1	199.4	---	2.372	33.07	0.527	76.6	304.5	42.9	0.411
4-2100	4-2600	1.166	356.9	82.9	62.98	1.198	85.5	0.426	1.706	15.3	201.5	---	2.433	-58.35	0.527	75.5	326.1	-44.9	0.616
4-2100	4-2620	0.699	258.8	71.2	35.41	1.201	86.2	0.432	1.728	12.6	202.9	---	2.474	-31.04	0.528	74.4	315.3	-41.3	0.397
4-2100	4-2640	0.510	252.7	59.4	24.62	1.204	87.3	0.437	1.750	8.9	204.2	---	2.514	-20.51	0.527	73.4	318.3	-32.9	0.326
4-2100	4-2660	0.418	253.3	50.5	19.20	1.207	88.5	0.442	1.771	4.9	205.3	---	2.554	-15.34	0.527	72.5	314.9	-26.4	0.300
4-2100	4-2680	0.366	256.2	43.1	15.95	1.210	89.8	0.448	1.792	0.8	206.3	---	2.595	-12.38	0.527	71.6	317.8	-21.7	0.289
4-2100	4-2700	0.335	260.1	36.5	13.76	1.213	91.1	0.455	1.813	356.6	567.3	0.989	2.637	-10.42	0.527	70.7	321.3	-18.3	0.286
4-2110	4-2230	0.619	176.4	16.4	7.65	1.258	60.9	0.695	2.294	73.4	131.0	---	---	7.17	0.693	133.9	304.2	6.4	0.557
4-2110	4-2250	0.571	173.8	16.5	6.76	1.210	61.9	0.617	1.810	77.8	141.7	---	---	6.74	0.607	126.6	302.8	7.3	0.450
4-2110	4-2270	0.538	172.2	16.1	5.96	1.182	62.8	0.571	1.614	80.3	150.5	---	---	6.43	0.552	119.2	300.6	8.3	0.374
4-2110	4-2290	0.513	171.4	15.3	5.22	1.166	63.7	0.542	1.521	81.2	157.9	---	---	6.22	0.519	112.3	297.6	9.4	0.318
4-2110	4-2310	0.491	171.2	14.3	4.51	1.157	64.5	0.522	1.474	80.9	164.1	---	---	6.09	0.500	106.0	294.0	10.5	0.279
4-2110	4-2330	0.471	171.5	13.0	3.82	1.153	65.5	0.506	1.454	79.7	169.3	---	---	6.05	0.492	100.6	290.1	11.6	0.254
4-2110	4-2350	0.452	172.1	11.4	3.13	1.152	66.4	0.494	1.449	77.6	173.7	---	---	6.09	0.489	96.0	286.3	12.5	0.238
4-2110	4-2370	0.434	173.0	9.5	2.43	1.153	67.5	0.483	1.454	75.1	177.6	---	---	6.20	0.490	92.2	283.2	13.3	0.229
4-2110	4-2390	0.415	174.0	7.4	1.69	1.155	68.5	0.474	1.466	72.0	181.1	---	2.161	6.40	0.494	89.0	281.0	14.1	0.227
4-2110	4-2410	0.397	175.1	4.8	0.90	1.159	69.6	0.466	1.482	68.7	184.1	---	2.172	6.70	0.498	86.4	279.8	14.8	0.227
4-2110	4-2430	0.379	176.3	1.7	0.02	1.162	70.8	0.459	1.500	65.0	186.8	---	2.190	7.12	0.502	84.3	279.6	15.6	0.231
4-2110	4-2450	0.362	177.4	-2.1	-0.98	1.166	71.9	0.454	1.521	61.2	189.3	---	2.211	7.69	0.507	82.5	280.3	16.6	0.236
4-2110	4-2470	0.346	178.2	-6.8	-2.15	1.170	73.1	0.449	1.544	57.2	191.5	---	2.236	8.48	0.511	80.9	281.8	17.9	0.242
4-2110	4-2490	0.333	178.7	-12.7	-3.57	1.174	74.3	0.445	1.567	53.1	193.5	---	2.264	9.51	0.514	79.6	284.0	19.5	0.250
4-2110	4-2510	0.326	178.3	-20.3	-5.39	1.178	75.5	0.442	1.590	48.9	195.3	---	2.294	10.98	0.517	78.5	286.8	21.8	0.260
4-2110	4-2530	0.329	176.2	-29.7	-7.85	1.182	76.7	0.440	1.614	44.7	197.0	---	2.325	13.09	0.520	77.5	290.2	24.8	0.274

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2110	4-2550	0.352	170.4	-41.1	-11.43	1.186	77.9	0.439	1.639	40.6	198.6	---	2.358	16.35	0.522	76.5	294.6	29.0	0.294
4-2110	4-2570	0.419	156.4	-52.5	-17.21	1.190	79.1	0.439	1.663	36.5	200.0	---	2.393	21.81	0.523	75.6	300.3	34.7	0.331
4-2110	4-2590	0.586	127.5	-57.8	-28.08	1.193	80.1	0.441	1.686	32.8	201.4	---	2.430	32.37	0.524	74.7	309.6	41.4	0.409
4-2110	4-2610	1.000	96.6	-46.9	-52.73	1.197	80.9	0.444	1.710	30.1	202.8	---	2.470	56.72	0.525	73.7	326.5	44.2	0.605
4-2110	4-2650	0.857	259.6	77.8	44.44	1.203	85.4	0.441	1.756	15.2	204.4	---	2.531	-41.03	0.526	73.0	327.4	-44.0	0.475
4-2110	4-2670	0.597	254.3	63.9	29.48	1.206	86.4	0.446	1.778	11.8	205.6	---	2.572	-26.38	0.526	72.1	322.6	-37.3	0.367
4-2110	4-2690	0.470	255.4	54.0	22.14	1.209	87.5	0.451	1.800	8.0	206.6	---	2.612	-19.30	0.526	71.3	322.9	-30.5	0.324
4-2110	4-2710	0.399	258.4	46.1	17.86	1.212	88.7	0.456	1.822	4.0	207.6	---	2.653	-15.29	0.526	70.5	325.2	-25.3	0.306
4-2120	4-2240	0.704	176.1	14.2	8.10	1.220	54.7	0.698	1.912	91.1	141.9	---	---	8.55	0.629	133.7	300.6	7.3	0.533
4-2120	4-2260	0.652	174.6	13.8	6.97	1.181	56.2	0.642	1.620	93.7	150.9	---	---	7.88	0.553	125.4	298.5	8.1	0.436
4-2120	4-2280	0.615	174.0	13.0	5.98	1.159	57.6	0.606	1.495	94.6	158.1	---	---	7.39	0.507	117.3	295.7	9.1	0.367
4-2120	4-2300	0.585	173.9	12.0	5.10	1.147	58.9	0.580	1.436	94.1	164.1	---	---	7.04	0.481	109.8	292.3	10.0	0.319
4-2120	4-2320	0.559	174.2	10.8	4.28	1.142	60.1	0.560	1.411	92.7	169.1	---	---	6.81	0.469	103.2	288.6	10.9	0.286
4-2120	4-2340	0.535	174.9	9.4	3.50	1.140	61.3	0.544	1.404	90.6	173.4	---	---	6.67	0.466	97.7	285.1	11.7	0.265
4-2120	4-2360	0.513	175.8	7.8	2.75	1.141	62.6	0.530	1.409	87.9	177.2	---	---	6.62	0.468	93.1	282.1	12.3	0.253
4-2120	4-2380	0.491	176.8	5.9	2.00	1.144	63.8	0.517	1.422	84.7	180.5	---	2.158	6.65	0.473	89.4	279.9	12.8	0.247
4-2120	4-2400	0.470	178.0	3.9	1.23	1.148	65.1	0.506	1.439	81.3	183.5	---	2.168	6.77	0.479	86.4	278.7	13.3	0.245
4-2120	4-2420	0.449	179.2	1.5	0.43	1.152	66.4	0.496	1.460	77.6	186.2	---	2.184	6.98	0.486	84.0	278.4	13.8	0.246
4-2120	4-2440	0.429	180.4	-1.3	-0.42	1.156	67.6	0.487	1.483	73.7	188.6	---	2.205	7.30	0.492	82.0	279.0	14.4	0.248
4-2120	4-2460	0.410	181.6	-4.6	-1.35	1.161	68.9	0.480	1.507	69.8	190.8	---	2.230	7.74	0.498	80.4	280.4	15.2	0.252
4-2120	4-2480	0.392	182.6	-8.5	-2.40	1.166	70.2	0.473	1.532	65.4	192.8	---	2.257	8.33	0.503	79.0	282.4	16.2	0.257
4-2120	4-2500	0.376	183.4	-13.2	-3.63	1.171	71.5	0.467	1.558	61.2	194.6	---	2.288	9.13	0.508	77.9	284.9	17.5	0.263
4-2120	4-2520	0.364	183.7	-19.0	-5.10	1.175	72.8	0.462	1.584	56.9	196.3	---	2.317	10.20	0.512	76.9	287.9	19.1	0.269
4-2120	4-2540	0.358	183.0	-26.1	-6.96	1.179	74.1	0.459	1.610	52.6	197.8	---	2.349	11.68	0.515	76.0	291.4	21.3	0.278
4-2120	4-2560	0.361	180.7	-34.6	-9.40	1.184	75.4	0.456	1.636	48.3	199.3	---	2.382	13.74	0.518	75.2	295.4	24.2	0.290
4-2120	4-2580	0.385	174.9	-44.5	-12.85	1.188	76.6	0.454	1.662	44.1	200.6	---	2.417	16.84	0.520	74.4	300.0	28.1	0.308
4-2120	4-2600	0.445	161.7	-54.1	-18.17	1.191	77.8	0.454	1.687	40.0	201.9	---	2.453	21.82	0.521	73.7	305.9	33.3	0.339
4-2120	4-2620	0.582	136.1	-58.8	-27.40	1.195	78.9	0.454	1.712	36.2	203.1	---	2.490	30.72	0.522	73.0	314.5	39.5	0.401
4-2120	4-2640	0.893	107.7	-51.1	-46.12	1.198	79.8	0.457	1.737	33.1	204.3	---	2.530	49.13	0.523	72.1	329.0	43.9	0.543
4-2120	4-2680	1.049	237.1	84.7	55.72	1.205	84.6	0.451	1.784	17.5	205.7	---	2.588	-53.34	0.525	71.8	340.8	-44.5	0.570
4-2120	4-2700	0.702	252.6	68.5	35.36	1.208	85.4	0.455	1.807	14.7	206.8	---	2.630	-33.27	0.525	70.9	333.0	-40.8	0.417
4-2120	4-2720	0.530	256.0	57.4	25.47	1.211	86.5	0.460	1.829	11.2	207.8	---	2.670	-23.69	0.525	70.1	331.4	-34.2	0.353
4-2130	4-2250	0.794	177.3	11.8	8.73	1.185	48.3	0.729	1.662	107.5	151.7	---	---	10.05	0.545	134.0	296.4	7.8	0.523
4-2130	4-2270	0.737	176.8	11.0	7.28	1.153	50.4	0.685	1.476	108.2	158.6	---	---	9.06	0.497	124.6	293.8	8.6	0.434
4-2130	4-2290	0.694	176.8	9.9	6.07	1.136	52.2	0.653	1.397	107.4	164.3	---	---	8.34	0.460	115.4	290.7	9.3	0.371
4-2130	4-2310	0.659	177.3	8.8	5.02	1.128	53.9	0.628	1.364	105.8	169.1	---	---	7.82	0.442	107.2	287.2	10.0	0.329
4-2130	4-2330	0.629	178.0	7.4	4.08	1.126	55.5	0.606	1.354	103.4	173.2	---	---	7.44	0.437	100.3	283.9	10.7	0.301
4-2130	4-2350	0.601	179.0	5.9	3.21	1.127	57.1	0.588	1.359	100.6	176.8	---	---	7.19	0.440	94.6	281.1	11.1	0.283
4-2130	4-2370	0.576	180.1	4.3	2.39	1.130	58.6	0.571	1.372	97.3	180.0	---	---	7.03	0.446	90.0	278.9	11.5	0.273
4-2130	4-2390	0.551	181.3	2.5	1.60	1.135	60.1	0.556	1.390	93.8	182.8	---	2.164	6.98	0.455	86.5	277.7	11.9	0.268
4-2130	4-2410	0.527	182.6	0.6	0.81	1.140	61.5	0.542	1.413	90.0	185.4	---	2.179	7.01	0.464	83.6	277.4	12.2	0.266
4-2130	4-2430	0.504	183.9	-1.7	0.02	1.145	63.0	0.530	1.438	86.0	187.8	---	2.199	7.13	0.472	81.4	277.9	12.6	0.266
4-2130	4-2450	0.482	185.2	-4.1	-0.81	1.150	64.4	0.519	1.464	81.9	190.0	---	2.223	7.34	0.481	79.6	279.1	13.0	0.268
4-2130	4-2470	0.460	186.5	-7.0	-1.69	1.156	65.9	0.509	1.491	77.7	192.0	---	2.250	7.66	0.488	78.1	281.0	13.6	0.270
4-2130	4-2490	0.440	187.6	-10.3	-2.64	1.161	67.3	0.500	1.519	73.3	193.8	---	2.279	8.10	0.495	76.9	283.3	14.4	0.273
4-2130	4-2510	0.422	188.6	-14.2	-3.71	1.166	68.7	0.492	1.548	69.8	195.5	---	2.309	8.69	0.500	76.0	286.2	15.4	0.277
4-2130	4-2530	0.406	189.3	-18.7	-4.94	1.171	70.0	0.486	1.576	64.6	197.1	---	2.341	9.47	0.505	75.1	289.3	16.8	0.281
4-2130	4-2550	0.394	189.6	-24.2	-6.40	1.176	71.4	0.480	1.604	60.2	198.5	---	2.374	10.52	0.509	74.4	292.9	18.2	0.286
4-2130	4-2570	0.387	188.9	-30.7	-8.21	1.181	72.7	0.476	1.632	55.9	199.9	---	2.408	11.92	0.512	73.7	296.7	20.3	0.293
4-2130	4-2590	0.391	186.7	-38.4	-10.55	1.185	74.1	0.472	1.659	51.5	201.1	---	2.443	13.88	0.515	73.1	301.0	23.0	0.302
4-2130	4-2610	0.411	181.3	-47.1	-13.75	1.189	75.3	0.470	1.686	47.3	202.3	---	2.478	16.72	0.517	72.5	305.8	26.6	0.317
4-2130	4-2630	0.461	169.5	-55.5	-18.46	1.193	76.6	0.468	1.713	43.2	203.5	---	2.514	21.09	0.519	71.9	311.5	31.3	0.342
4-2130	4-2650	0.570	146.9	-60.3	-26.16	1.196	77.7	0.468	1.738	39.3	204.5	---	2.552	28.44	0.520	71.3	319.3	37.1	0.389
4-2130	4-2670	0.801	119.5	-55.6	-40.45	1.200	78.7	0.469	1.763	36.0	205.6	---	2.591	42.40	0.522	70.6	331.5	42.5	0.491
4-2130	4-2730	0.833	244.4	73.1	42.84	1.209	84.5	0.465	1.835	17.5	208.0	---	2.688	-41.83	0.524	69.7	344.7	-43.1	0.480
4-2140	4-2260	0.889	179.7	9.2	9.64	1.153	41.7	0.778	1.489	122.0	159.5	---	---	11.76	0.501	135.1	292.1	7.8	0.528
4-2140	4-2280	0.825	179.9	8.1	7.74	1.127	44.4	0.739	1.367	120.9	164.7	---	---	10.32	0.441	124.2	289.2	8.5	0.444
4-2140	4-2300	0.776	180.5	6.9	6.24	1.114	46.8	0.707	1.318	118.9	169.1	---	---	9.29	0.411	113.7	286.1	9.0	0.387
4-2140	4-2320	0.736	181.4	5.6	4.98	1.110	48.9	0.680	1.302	116.2	172.9	---	---	8.54	0.401	104.6	283.0	9.5	0.349
4-2140	4-2340	0.701	182.4	4.2	3.90	1.111	50.8	0.657	1.304	113.1	176.2	---	---	8.00	0.403	97.1	280.3	9.9	0.324
4-2140	4-2360	0.670	183.6	2.7	2.93	1.114	52.7	0.635	1.317	109.7	179.3	---	---	7.61	0.412	91.3	278.2	10.2	0.308
4-2140	4-2380	0.640	184.9	1.0	2.05	1.119	54.5	0.616	1.336	106.1	182.0	---	2.160	7.35	0.423	86.7	277.0	10.4	0.298
4-2140	4-2400	0.613	186.3	-0.7	1.21	1.125	56.2	0.598	1.360	102.2	184.6	---	2.174	7.19	0.435	83.3	276.6	10.6	0.293
4-2140	4-2420	0.586	187.7	-2.6	0.41	1.131	57.9	0.582	1.387	98.1	186.9	---	2.194	7.13	0.447	80.6	277.0	10.9	0.290
4-2140	4-2440	0.561	189.1	-4.6	-0.38	1.138	59.5	0.567	1.415	93.9	189.0	---	2.217	7.16	0.458	78.6	278.1	11.2	0.289
4-2140	4-2460	0.536	190.5	-6.9	-1.18	1.144	61.1	0.553	1.445	89.7	191.0	---	2.244	7.27	0.469	77.0	279.8	11.5	0.289
4-2140	4-2480	0.513	191.8	-9.4	-2.00	1.150	62.7	0.541	1.475	85.3	192.9	---	2.273	7.48	0.478	75.7	282.1	12.0	0.290
4-2140	4-2500	0.490	193.1	-12.3	-2.88	1.156	64.2	0.530	1.506	80.9	194.6	---	2.303	7.78	0.485	74.7	284.7	12.6	0.291
4-2140	4-2520	0.470	194.3	-15.5	-3.82	1.162	65.7	0.520	1.536	76.5	196.1	---	2.335	8.21	0.492	73.9	287.8	13.3	0.293
4-2140	4-2540	0.451	195.3	-19.2	-4.86	1.167	67.2	0.511	1.567	72.1	197.6	---	2.367	8.77	0.498	73.2	291.1	14.3	0.295
4-2140	4-2560	0.435	196.1	-23.5	-6.06	1.172	68.6	0.504	1.597	67.7	199.0	---	2.401	9.51	0.503	72.6	294.7	15.5	0.297
4-2140	4-2580	0.422	196.4	-28.6	-7.45	1.177	70.0	0.498	1.626	63.2	200.3	---	2.435	10.49	0.507	72.1	298.5	17.0	0.300
4-2140	4-2600	0.415	195.9	-34.5	-9.15	1.182	71.4	0.492	1.655	58.9	201.5	---	2.470	11.79	0.510	71.6	302.5	18.9	0.305
4-2140	4-2620	0.416	194.0	-41.3	-11.31	1.186	72.8	0.488	1.683	54.6	202.6	---	2.505	13.56	0.513	71.1	306.9	21.4	0.311
4-2140	4-2640	0.432	189.5	-49.0	-14.18	1.190	74.1	0.485	1.711	50.3	203.7	---	2.541	16.07	0.515	70.7	311.7	24.7	0.322
4-2140	4-2660	0.471	179.6	-56.7	-18.25	1.194	75.3	0.483	1.738	46.3	204.8	---	2.577	19.79	0.517	70.2	317.2	28.9	0.341
4-2140	4-2680	0.554	160.0	-62.1	-24.56	1.197	76.5	0.482	1.765	42.4	205.8	---	2.614	25.76	0.519	69.7	324.1	34.2	0.376
4-2140	4-2700	0.723	132.9	-60.1	-35.45	1.201	77.6	0.482	1.790	38.9	206.8	---	2.653	36.32	0.520	69.2	334.2	40.1	0.447
4-2140	4-2720	1.068	114.1	-47.4	-56.50	1.204	78.4	0.484	1.815	36.3	207.8	---	2.694	57.05	0.521	68.5	350.3	42.8	0.599
4-2150	4-2270	0.985	182.9	6.5	10.95	1.124	34.9	0.834	1.367	134.6	165.6	---	---	13.83	0.439	137.3	288.3	7.5	0.546

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2150	4-2290	0.914	183.6	5.3	8.41	1.102	38.2	0.797	1.283	132.0	169.3	---	---	11.72	0.384	124.4	285.4	7.9	0.466
4-2150	4-2310	0.859	184.7	3.9	6.50	1.094	41.1	0.765	1.253	129.0	172.6	---	---	10.27	0.362	112.1	282.5	8.3	0.412
4-2150	4-2330	0.814	185.9	2.5	4.99	1.093	43.7	0.736	1.250	125.6	175.7	---	---	9.23	0.359	101.8	280.0	8.6	0.376
4-2150	4-2350	0.775	187.3	1.0	3.74	1.096	46.1	0.709	1.260	122.0	178.5	---	---	8.48	0.368	93.7	278.0	8.9	0.352
4-2150	4-2370	0.739	188.7	-0.5	2.66	1.102	48.2	0.685	1.279	118.1	181.1	---	2.156	7.94	0.383	87.7	276.7	9.0	0.337
4-2150	4-2390	0.707	190.2	-2.1	1.71	1.108	50.3	0.663	1.304	114.1	183.5	---	2.168	7.55	0.399	83.2	276.2	9.2	0.327
4-2150	4-2410	0.676	191.7	-3.8	0.83	1.115	52.3	0.642	1.332	110.0	185.8	---	2.187	7.29	0.415	79.9	276.5	9.3	0.321
4-2150	4-2430	0.647	193.2	-5.6	0.02	1.123	54.2	0.623	1.362	105.8	187.9	---	2.211	7.13	0.430	77.4	277.4	9.5	0.317
4-2150	4-2450	0.619	194.7	-7.5	-0.77	1.130	56.0	0.606	1.393	101.5	189.9	---	2.237	7.07	0.443	75.6	279.0	9.7	0.314
4-2150	4-2470	0.592	196.1	-9.6	-1.54	1.137	57.7	0.590	1.426	97.1	191.7	---	2.266	7.09	0.455	74.2	281.1	10.0	0.313
4-2150	4-2490	0.567	197.6	-11.8	-2.32	1.144	59.4	0.575	1.458	92.7	193.4	---	2.297	7.19	0.466	73.1	283.6	10.3	0.312
4-2150	4-2510	0.543	199.0	-14.3	-3.12	1.151	61.1	0.562	1.491	88.2	195.0	---	2.329	7.38	0.475	72.3	286.5	10.8	0.311
4-2150	4-2530	0.520	200.4	-17.0	-3.95	1.157	62.7	0.550	1.524	83.8	196.5	---	2.362	7.67	0.483	71.7	289.7	11.4	0.310
4-2150	4-2550	0.498	201.6	-20.1	-4.85	1.163	64.3	0.539	1.556	79.3	197.9	---	2.396	8.06	0.490	71.1	293.1	12.1	0.310
4-2150	4-2570	0.479	202.7	-23.6	-5.84	1.168	65.8	0.530	1.588	74.9	199.3	---	2.429	8.58	0.495	70.7	296.7	13.0	0.310
4-2150	4-2590	0.462	203.5	-27.6	-6.96	1.174	67.3	0.522	1.619	70.4	200.5	---	2.464	9.25	0.500	70.3	300.5	14.1	0.310
4-2150	4-2610	0.449	204.0	-32.1	-8.25	1.178	68.7	0.515	1.649	66.1	201.7	---	2.498	10.13	0.504	70.0	304.5	15.5	0.312
4-2150	4-2630	0.441	203.9	-37.4	-9.80	1.183	70.1	0.509	1.679	61.7	202.8	---	2.534	11.29	0.508	69.6	308.6	17.3	0.314
4-2150	4-2650	0.439	202.6	-43.5	-11.72	1.187	71.5	0.504	1.708	57.5	203.9	---	2.569	12.85	0.511	69.3	313.0	19.5	0.318
4-2150	4-2670	0.449	199.2	-50.4	-14.22	1.191	72.8	0.500	1.737	53.3	204.9	---	2.605	14.99	0.513	68.9	317.7	22.4	0.325
4-2150	4-2690	0.477	191.6	-57.5	-17.66	1.195	74.1	0.497	1.764	49.2	205.9	---	2.641	18.09	0.515	68.6	322.9	26.1	0.338
4-2150	4-2710	0.537	175.6	-63.6	-22.74	1.199	75.4	0.495	1.791	45.3	206.8	---	2.678	22.84	0.517	68.2	329.1	30.9	0.362
4-2150	4-2730	0.657	149.2	-64.5	-31.00	1.202	76.5	0.494	1.817	41.7	207.8	---	2.715	30.77	0.519	67.7	337.4	36.8	0.410
4-2150	4-2750	0.901	126.0	-56.0	-46.09	1.205	77.4	0.495	1.842	38.6	208.7	---	2.754	45.56	0.521	67.2	350.4	41.9	0.513
4-2160	4-2280	1.081	186.6	3.8	13.00	1.100	27.9	0.889	1.281	145.6	170.1	---	---	16.58	0.381	141.0	285.3	6.8	0.577
4-2160	4-2300	1.004	187.9	2.4	9.39	1.081	31.9	0.854	1.219	141.8	172.6	---	---	13.38	0.328	125.6	282.7	7.1	0.498
4-2160	4-2320	0.943	189.3	0.9	6.90	1.076	35.4	0.821	1.201	138.0	175.2	---	---	11.31	0.311	110.8	280.2	7.4	0.445
4-2160	4-2340	0.893	190.9	-0.6	5.05	1.077	38.4	0.790	1.206	134.1	177.6	---	---	9.90	0.316	98.9	278.2	7.5	0.410
4-2160	4-2360	0.849	192.4	-2.1	3.59	1.082	41.2	0.762	1.222	130.0	180.0	---	---	8.89	0.333	90.0	276.9	7.7	0.386
4-2160	4-2380	0.810	194.1	-3.6	2.39	1.089	43.7	0.735	1.246	125.9	182.3	---	2.162	8.17	0.353	83.8	276.2	7.7	0.370
4-2160	4-2400	0.774	195.7	-5.2	1.35	1.097	46.0	0.711	1.274	121.6	184.4	---	2.179	7.65	0.373	79.3	276.4	7.8	0.359
4-2160	4-2420	0.741	197.3	-6.8	0.44	1.106	48.2	0.688	1.305	117.3	186.5	---	2.202	7.28	0.393	76.2	277.1	7.9	0.351
4-2160	4-2440	0.709	198.9	-8.5	-0.39	1.114	50.3	0.666	1.338	113.0	188.5	---	2.229	7.02	0.411	74.0	278.6	8.0	0.345
4-2160	4-2460	0.679	200.5	-10.3	-1.17	1.123	52.3	0.647	1.372	108.6	190.3	---	2.259	6.87	0.427	72.4	280.5	8.2	0.341
4-2160	4-2480	0.650	202.1	-12.2	-1.91	1.131	54.3	0.628	1.406	104.1	192.0	---	2.290	6.80	0.441	71.2	282.9	8.4	0.337
4-2160	4-2500	0.623	203.7	-14.2	-2.64	1.138	56.1	0.611	1.441	99.7	193.7	---	2.322	6.82	0.454	70.4	285.6	8.7	0.334
4-2160	4-2520	0.596	205.2	-16.3	-3.37	1.145	57.9	0.596	1.476	95.2	195.2	---	2.355	6.91	0.464	69.8	288.6	9.1	0.332
4-2160	4-2540	0.572	206.7	-18.7	-4.12	1.152	59.6	0.582	1.510	90.7	196.7	---	2.389	7.07	0.473	69.3	291.9	9.5	0.329
4-2160	4-2560	0.548	208.1	-21.3	-4.89	1.158	61.3	0.570	1.544	86.3	198.1	---	2.424	7.33	0.481	68.9	295.4	10.1	0.327
4-2160	4-2580	0.526	209.5	-24.1	-5.72	1.164	62.9	0.559	1.577	81.8	199.4	---	2.458	7.67	0.488	68.6	299.0	10.7	0.325
4-2160	4-2600	0.507	210.7	-27.3	-6.63	1.170	64.4	0.549	1.610	77.4	200.6	---	2.493	8.13	0.493	68.4	302.8	11.6	0.323
4-2160	4-2620	0.489	211.7	-30.9	-7.64	1.175	66.0	0.540	1.642	73.0	201.7	---	2.528	8.72	0.498	68.2	306.7	12.6	0.322
4-2160	4-2640	0.475	212.5	-35.0	-8.80	1.180	67.4	0.532	1.673	68.7	202.8	---	2.564	9.49	0.502	67.9	310.8	13.8	0.321
4-2160	4-2660	0.464	212.8	-39.7	-10.17	1.184	68.9	0.525	1.704	64.5	203.9	---	2.599	10.49	0.506	67.7	314.9	15.4	0.322
4-2160	4-2680	0.460	212.2	-45.0	-11.84	1.188	70.3	0.520	1.733	60.3	204.9	---	2.634	11.81	0.509	67.5	319.2	17.3	0.323
4-2160	4-2700	0.464	210.2	-51.1	-13.96	1.192	71.6	0.515	1.762	56.1	205.9	---	2.670	13.59	0.511	67.2	323.8	19.8	0.327
4-2160	4-2720	0.481	205.1	-57.8	-16.78	1.196	72.9	0.512	1.790	52.1	206.8	---	2.705	16.10	0.514	67.0	328.7	23.0	0.335
4-2160	4-2740	0.522	193.6	-64.3	-20.80	1.200	74.2	0.509	1.817	48.2	207.8	---	2.741	19.80	0.516	66.7	334.2	27.2	0.351
4-2160	4-2760	0.603	170.3	-68.0	-27.01	1.203	75.4	0.507	1.843	44.5	208.7	---	2.777	25.71	0.518	66.3	341.1	32.7	0.381
4-2170	4-2290	1.178	190.8	1.1	16.49	1.080	20.9	0.936	1.221	155.3	173.4	---	---	20.73	0.329	146.8	283.5	5.9	0.617
4-2170	4-2310	1.093	192.5	-0.4	10.92	1.063	25.5	0.905	1.171	150.7	175.1	---	---	15.53	0.273	128.3	281.2	6.1	0.538
4-2170	4-2330	1.027	194.3	-2.0	7.51	1.059	29.5	0.873	1.160	146.3	176.9	---	---	12.49	0.260	110.0	279.2	6.3	0.484
4-2170	4-2350	0.971	196.1	-3.5	5.17	1.063	33.0	0.842	1.170	141.9	178.9	---	---	10.55	0.272	95.7	277.7	6.4	0.448
4-2170	4-2370	0.924	197.9	-5.0	3.45	1.069	36.2	0.812	1.190	137.5	180.9	---	2.156	9.23	0.296	85.9	276.9	6.4	0.423
4-2170	4-2390	0.881	199.7	-6.6	2.09	1.078	39.0	0.784	1.216	133.1	183.0	---	2.171	8.30	0.322	79.4	276.8	6.5	0.405
4-2170	4-2410	0.842	201.5	-8.1	0.97	1.087	41.6	0.758	1.247	128.7	184.9	---	2.192	7.63	0.348	75.1	277.4	6.5	0.392
4-2170	4-2430	0.806	203.2	-9.7	0.02	1.097	44.1	0.733	1.280	124.2	186.8	---	2.219	7.14	0.371	72.2	278.6	6.6	0.383
PLANET=																			
4-2170	4-2450	0.772	205.0	-11.3	-0.82	1.106	46.4	0.710	1.315	119.8	188.7	---	2.249	6.79	0.392	70.3	280.3	6.7	0.375
4-2170	4-2470	0.740	206.7	-12.9	-1.59	1.115	48.6	0.688	1.351	115.3	190.4	---	2.281	6.56	0.411	68.9	282.5	6.8	0.369
4-2170	4-2490	0.709	208.4	-14.7	-2.30	1.124	50.7	0.668	1.387	110.8	192.1	---	2.314	6.41	0.427	68.0	285.0	7.0	0.363
4-2170	4-2510	0.680	210.0	-16.5	-2.99	1.132	52.7	0.649	1.424	106.3	193.7	---	2.348	6.34	0.441	67.4	287.9	7.2	0.359
4-2170	4-2530	0.652	211.7	-18.4	-3.65	1.140	54.6	0.632	1.460	101.9	195.2	---	2.383	6.35	0.453	67.0	291.1	7.5	0.354
4-2170	4-2550	0.625	213.3	-20.4	-4.31	1.147	56.4	0.616	1.496	97.4	196.6	---	2.418	6.42	0.463	66.7	294.4	7.8	0.350
4-2170	4-2570	0.600	214.9	-22.6	-4.99	1.154	58.2	0.602	1.531	93.0	198.0	---	2.453	6.56	0.472	66.5	297.9	8.2	0.346
4-2170	4-2590	0.576	216.4	-24.9	-5.68	1.160	59.9	0.589	1.566	88.5	199.2	---	2.488	6.77	0.479	66.4	301.6	8.7	0.342
4-2170	4-2610	0.554	217.9	-27.5	-6.43	1.166	61.5	0.577	1.600	84.2	200.5	---	2.524	7.07	0.486	66.3	305.4	9.3	0.338
4-2170	4-2630	0.533	219.3	-30.4	-7.23	1.171	63.1	0.567	1.634	79.8	201.6	---	2.559	7.48	0.491	66.2	309.2	10.0	0.335
4-2170	4-2650	0.515	220.6	-33.5	-8.11	1.176	64.7	0.557	1.666	75.5	202.7	---	2.595	7.96	0.496	66.1	313.2	10.9	0.332
4-2170	4-2670	0.499	221.7	-37.1	-9.12	1.181	66.1	0.549	1.698	71.3	203.8	---	2.630	8.61	0.500	66.0	317.2	12.0	0.330
4-2170	4-2690	0.487	222.5	-41.2	-10.29	1.186	67.6	0.542	1.728	67.1	204.8	---	2.665	9.43	0.504	65.9	321.3	13.3	0.328
4-2170	4-2710	0.479	222.8	-45.8	-11.69	1.190	69.0	0.536	1.758	63.0	205.8	---	2.700	10.51	0.507	65.8	325.6	14.9	0.328
4-2170	4-2730	0.477	222.1	-51.1	-13.44	1.194	70.4	0.531	1.787	58.9	206.7	---	2.735	11.95	0.510	65.6	330.0	17.0	0.329
4-2170	4-2750	0.486	219.6	-57.2	-15.71	1.197	71.7	0.526	1.815	55.0	207.7	---	2.770	13.92	0.513	65.4	334.6	19.7	0.333
4-2170	4-2770	0.510	212.9	-63.7	-18.82	1.201	73.0	0.523	1.842	51.1	208.6	---	2.805	16.75	0.515	65.2	339.6	23.3	0.341
4-2180	4-2320	1.182	197.4	-3.2	13.57	1.048	19.0	0.946	1.136	158.8	176.8	---	---	18.73	0.221	133.6	280.7	5.1	0.583
4-2180	4-2340	1.110	199.5	-4.8	8.48	1.046	23.5	0.918	1.129	153.9	178.1	---	---	13.98	0.209	110.0	279.2	5.1	0.528
4-2180	4-2360	1.050	201.6	-6.4	5.40	1.050	27.5	0.889	1.140	149.1	179.7	---	---	11.23	0.228	92.3	278.2	5.2	0.490
4-2180	4-2380	0.999	203.6	-7.9	3.30	1.058	31.0	0.859	1.163	144.4	181.5	---	2.162	9.49	0.259	81.2	277.8	5.2	0.463
4-2180	4-2400	0.953	205.6	-9.4	1.75	1.068	34.2	0.831	1.191	139.9	183.3	---	2.181	8.30	0.291	74.5	278.1	5.3	0.443
4-2180	4-2420	0.911	207.5	-10.9	0.54	1.078	37.2	0.804	1.223	135.3	185.1	---	2.206	7.47	0.322	70.4	279.0	5.3	0.428

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2180	4-2440	0.872	209.4	-12.4	-0.46	1.088	39.9	0.778	1.258	130.8	186.8	---	2.236	6.87	0.349	67.9	280.5	5.3	0.416
4-2180	4-2460	0.836	211.2	-13.9	-1.31	1.099	42.4	0.753	1.294	126.2	188.6	---	2.269	6.43	0.373	66.2	282.5	5.4	0.406
4-2180	4-2480	0.802	213.1	-15.4	-2.05	1.108	44.8	0.730	1.332	121.7	190.3	---	2.303	6.12	0.394	65.2	284.9	5.5	0.398
4-2180	4-2500	0.769	214.9	-17.0	-2.73	1.118	47.0	0.708	1.369	117.2	191.9	---	2.338	5.91	0.412	64.6	287.6	5.6	0.391
4-2180	4-2520	0.738	216.6	-18.6	-3.36	1.126	49.2	0.688	1.407	112.8	193.4	---	2.374	5.77	0.427	64.2	290.6	5.8	0.384
4-2180	4-2540	0.709	218.4	-20.3	-3.96	1.135	51.2	0.669	1.444	108.3	194.9	---	2.410	5.70	0.440	64.0	293.8	6.0	0.377
4-2180	4-2560	0.680	220.1	-22.0	-4.55	1.142	53.2	0.651	1.482	103.8	196.3	---	2.447	5.70	0.452	64.0	297.2	6.2	0.371
4-2180	4-2580	0.653	221.9	-23.9	-5.13	1.149	55.0	0.635	1.518	99.4	197.7	---	2.483	5.75	0.462	64.0	300.7	6.5	0.366
4-2180	4-2600	0.628	223.5	-25.9	-5.71	1.156	56.8	0.621	1.554	95.1	198.9	---	2.519	5.87	0.470	64.0	304.3	6.9	0.360
4-2180	4-2620	0.604	225.2	-28.0	-6.32	1.162	58.5	0.608	1.589	90.7	200.1	---	2.555	6.04	0.477	64.0	308.1	7.3	0.355
4-2180	4-2640	0.581	226.9	-30.2	-6.95	1.168	60.2	0.595	1.624	86.4	201.3	---	2.591	6.28	0.484	64.1	311.9	7.8	0.350
4-2180	4-2660	0.560	228.5	-32.7	-7.64	1.173	61.8	0.585	1.657	82.2	202.4	---	2.626	6.60	0.489	64.1	315.8	8.4	0.345
4-2180	4-2680	0.540	230.1	-35.5	-8.39	1.178	63.3	0.575	1.690	78.0	203.5	---	2.662	7.00	0.494	64.1	319.8	9.1	0.341
4-2180	4-2700	0.523	231.5	-38.5	-9.22	1.183	64.8	0.566	1.722	73.8	204.5	---	2.697	7.52	0.498	64.1	323.8	10.0	0.337
4-2180	4-2720	0.509	232.9	-42.0	-10.19	1.187	66.3	0.559	1.753	69.7	205.5	---	2.732	8.18	0.502	64.1	327.9	11.1	0.334
4-2180	4-2740	0.498	233.9	-45.9	-11.33	1.191	67.7	0.552	1.783	65.7	206.5	---	2.766	9.04	0.506	64.0	332.0	12.4	0.332
4-2180	4-2760	0.491	234.5	-50.4	-12.72	1.195	69.1	0.546	1.812	61.7	207.5	---	2.800	10.16	0.509	64.0	336.2	14.1	0.331
4-2180	4-2780	0.491	234.1	-55.6	-14.49	1.198	70.4	0.541	1.840	57.8	208.4	---	2.835	11.66	0.512	63.8	340.6	16.3	0.331
4-2190	4-2330	1.269	202.6	-5.9	19.07	1.038	12.5	0.976	1.113	166.3	178.1	---	---	24.72	0.176	143.1	281.3	4.0	0.633
4-2190	4-2350	1.192	205.0	-7.5	10.19	1.035	17.5	0.954	1.106	161.0	178.9	---	---	16.12	0.157	111.5	280.1	4.0	0.575
4-2190	4-2370	1.128	207.3	-9.1	5.79	1.040	21.9	0.928	1.118	155.9	180.1	---	2.155	12.01	0.182	88.2	279.5	4.1	0.534
4-2190	4-2390	1.073	209.5	-10.6	3.14	1.048	25.8	0.901	1.140	151.0	181.6	---	2.168	9.66	0.221	75.6	279.5	4.1	0.504
4-2190	4-2410	1.025	211.6	-12.1	1.35	1.058	29.4	0.874	1.169	146.3	183.2	---	2.191	8.16	0.260	68.9	280.1	4.1	0.482
4-2190	4-2430	0.980	213.7	-13.5	0.02	1.070	32.6	0.847	1.202	141.6	184.9	---	2.221	7.15	0.295	65.2	281.3	4.1	0.465
4-2190	4-2450	0.939	215.8	-14.9	-1.01	1.081	35.6	0.820	1.238	137.0	186.6	---	2.253	6.44	0.326	63.1	283.0	4.2	0.451
4-2190	4-2470	0.901	217.8	-16.3	-1.86	1.091	38.3	0.795	1.275	132.4	188.2	---	2.289	5.92	0.353	61.9	285.1	4.2	0.439
4-2190	4-2490	0.865	219.7	-17.7	-2.58	1.102	40.9	0.771	1.313	127.9	189.9	---	2.325	5.55	0.376	61.2	287.6	4.3	0.428
4-2190	4-2510	0.831	221.6	-19.2	-3.22	1.112	43.3	0.748	1.352	123.4	191.4	---	2.363	5.28	0.396	60.9	290.4	4.4	0.419
4-2190	4-2530	0.798	223.5	-20.6	-3.79	1.121	45.6	0.726	1.390	118.9	193.0	---	2.400	5.09	0.413	60.8	293.5	4.5	0.410
4-2190	4-2550	0.767	225.4	-22.1	-4.32	1.129	47.7	0.706	1.429	114.5	194.4	---	2.438	4.97	0.427	60.9	296.7	4.6	0.402
4-2190	4-2570	0.737	227.2	-23.6	-4.83	1.137	49.8	0.688	1.467	110.1	195.8	---	2.475	4.91	0.440	61.0	300.1	4.8	0.394
4-2190	4-2590	0.709	229.0	-25.1	-5.32	1.145	51.8	0.670	1.505	105.7	197.2	---	2.513	4.90	0.451	61.2	303.7	5.0	0.387
4-2190	4-2610	0.681	230.9	-26.8	-5.80	1.152	53.6	0.654	1.541	101.4	198.4	---	2.550	4.93	0.460	61.4	307.3	5.3	0.380
4-2190	4-2630	0.656	232.7	-28.5	-6.29	1.158	55.4	0.639	1.578	97.1	199.7	---	2.586	5.02	0.468	61.6	311.0	5.5	0.373
4-2190	4-2650	0.631	234.5	-30.3	-6.79	1.164	57.2	0.626	1.613	92.8	200.8	---	2.623	5.15	0.476	61.8	314.8	5.9	0.366
4-2190	4-2670	0.608	236.3	-32.3	-7.31	1.170	58.8	0.614	1.648	88.6	202.0	---	2.659	5.33	0.482	61.9	318.7	6.3	0.360
4-2190	4-2690	0.586	238.2	-34.4	-7.87	1.175	60.5	0.602	1.681	84.5	203.1	---	2.694	5.58	0.487	62.1	322.6	6.8	0.355
4-2190	4-2710	0.565	240.0	-36.7	-8.48	1.180	62.0	0.592	1.714	80.4	204.1	---	2.729	5.89	0.492	62.2	326.5	7.4	0.349
4-2190	4-2730	0.547	241.8	-39.2	-9.15	1.184	63.5	0.583	1.746	76.3	205.2	---	2.764	6.29	0.497	62.3	330.5	8.0	0.344
4-2190	4-2750	0.530	243.6	-42.0	-9.91	1.189	65.0	0.575	1.777	72.3	206.2	---	2.798	6.79	0.501	62.3	334.5	8.9	0.340
4-2190	4-2770	0.516	245.3	-45.2	-10.80	1.192	66.4	0.568	1.807	68.4	207.2	---	2.832	7.44	0.505	62.4	338.5	9.9	0.336
4-2190	4-2790	0.505	246.8	-48.9	-11.87	1.196	67.8	0.561	1.835	64.5	208.1	---	2.866	8.27	0.508	62.3	342.7	11.2	0.333
4-2200	4-2360	1.273	210.7	-10.2	13.79	1.027	11.4	0.980	1.090	167.8	179.4	---	---	20.10	0.107	117.0	281.8	3.0	0.623
4-2200	4-2380	1.206	213.2	-11.7	6.50	1.031	16.2	0.960	1.101	162.5	180.3	---	2.158	13.04	0.137	82.9	281.4	3.0	0.579
4-2200	4-2400	1.148	215.6	-13.2	2.94	1.040	20.6	0.937	1.123	157.3	181.5	---	2.175	9.71	0.184	68.5	281.7	3.0	0.547
4-2200	4-2420	1.096	217.9	-14.6	0.81	1.051	24.5	0.912	1.152	152.4	183.0	---	2.202	7.82	0.230	62.2	282.6	3.0	0.522
4-2200	4-2440	1.050	220.2	-15.9	-0.63	1.062	28.0	0.886	1.185	147.7	184.5	---	2.234	6.62	0.269	59.2	284.0	3.0	0.502
4-2200	4-2460	1.007	222.4	-17.3	-1.69	1.074	31.2	0.860	1.220	143.0	186.1	---	2.270	5.80	0.304	57.8	285.8	3.1	0.486
4-2200	4-2480	0.966	224.5	-18.6	-2.52	1.085	34.1	0.835	1.258	138.4	187.7	---	2.308	5.23	0.333	57.1	288.1	3.1	0.472
4-2200	4-2500	0.929	226.6	-19.8	-3.20	1.096	36.9	0.810	1.296	133.8	189.3	---	2.347	4.81	0.358	56.9	290.7	3.1	0.459
4-2200	4-2520	0.893	228.6	-21.1	-3.78	1.106	39.5	0.787	1.335	129.3	190.8	---	2.386	4.51	0.380	56.9	293.5	3.2	0.448
4-2200	4-2540	0.859	230.6	-22.4	-4.29	1.116	41.9	0.765	1.375	124.9	192.3	---	2.426	4.29	0.398	57.2	296.6	3.3	0.437
4-2200	4-2560	0.826	232.6	-23.6	-4.74	1.125	44.2	0.744	1.414	120.5	193.8	---	2.465	4.14	0.414	57.5	299.9	3.4	0.428
4-2200	4-2580	0.795	234.5	-24.9	-5.17	1.133	46.4	0.724	1.452	116.1	195.2	---	2.504	4.04	0.428	57.8	303.3	3.5	0.418
4-2200	4-2600	0.765	236.4	-26.2	-5.57	1.141	48.4	0.705	1.491	111.8	196.5	---	2.542	3.98	0.440	58.2	306.8	3.6	0.409
4-2200	4-2620	0.737	238.4	-27.6	-5.96	1.148	50.4	0.688	1.528	107.5	197.8	---	2.580	3.96	0.450	58.6	310.4	3.8	0.401
4-2200	4-2640	0.709	240.3	-29.0	-6.34	1.155	52.3	0.672	1.565	103.2	199.0	---	2.618	3.98	0.459	59.0	314.1	4.0	0.392
4-2200	4-2660	0.683	242.3	-30.4	-6.72	1.161	54.1	0.658	1.602	99.1	200.2	---	2.655	4.04	0.467	59.3	317.9	4.2	0.385
4-2200	4-2680	0.658	244.2	-31.9	-7.11	1.167	55.8	0.644	1.637	94.9	201.4	---	2.691	4.13	0.474	59.6	321.7	4.5	0.377
4-2200	4-2700	0.634	246.2	-33.6	-7.51	1.172	57.5	0.631	1.672	90.8	202.5	---	2.727	4.27	0.480	59.9	325.5	4.8	0.370
4-2200	4-2720	0.612	248.2	-35.3	-7.94	1.177	59.1	0.620	1.705	86.8	203.6	---	2.762	4.44	0.486	60.1	329.4	5.2	0.363
4-2200	4-2740	0.590	250.2	-37.1	-8.40	1.182	60.7	0.610	1.738	82.8	204.6	---	2.797	4.67	0.491	60.3	333.3	5.6	0.357
4-2200	4-2760	0.571	252.3	-39.1	-8.91	1.186	62.2	0.600	1.769	78.8	205.7	---	2.831	4.95	0.496	60.5	337.2	6.1	0.351
4-2200	4-2780	0.552	254.4	-41.3	-9.48	1.190	63.7	0.592	1.800	74.9	206.7	---	2.865	5.32	0.500	60.6	341.2	6.7	0.346
4-2200	4-2800	0.536	256.5	-43.8	-10.14	1.194	65.1	0.584	1.830	71.1	207.7	---	2.898	5.77	0.505	60.7	345.2	7.5	0.341

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2460	4-2660	0.799	319.0	6.6	15.47	1.317	123.7	0.812	3.437	283.1	488.6	0.648	---	-11.29	0.743	142.1	77.8	-9.0	0.572
4-2460	4-2680	0.728	318.8	5.4	13.43	1.279	121.6	0.741	2.565	283.5	494.2	0.665	---	-9.50	0.668	137.7	79.5	-8.8	0.485
4-2460	4-2700	0.675	318.6	4.5	11.96	1.251	119.8	0.687	2.178	283.8	499.6	0.681	---	-8.27	0.608	133.0	80.5	-8.9	0.414
4-2460	4-2720	0.635	318.6	3.6	10.84	1.231	118.5	0.647	1.966	284.0	505.0	0.694	---	-7.38	0.561	128.3	80.7	-9.1	0.357
4-2460	4-2740	0.605	318.6	2.8	9.93	1.217	117.5	0.618	1.839	284.1	510.1	0.703	---	-6.73	0.522	123.5	80.1	-9.5	0.310
4-2460	4-2760	0.584	318.7	2.0	9.18	1.206	116.8	0.597	1.757	284.1	515.1	0.709	---	-6.23	0.492	118.7	78.5	-9.9	0.273
4-2460	4-2780	0.569	318.9	1.2	8.54	1.199	116.4	0.582	1.703	283.9	519.8	0.712	---	-5.84	0.468	113.9	76.0	-10.3	0.244
4-2460	4-2800	0.560	319.3	0.3	7.97	1.194	116.1	0.573	1.667	283.6	524.3	0.713	---	-5.54	0.449	109.1	72.7	-10.6	0.222
4-2460	4-2820	0.556	319.7	-0.5	7.46	1.190	116.1	0.568	1.644	283.0	528.5	0.710	---	-5.31	0.434	104.4	68.7	-10.8	0.207
4-2460	4-2840	0.556	320.3	-1.3	6.99	1.188	116.3	0.567	1.629	282.1	532.4	0.706	---	-5.14	0.423	99.7	64.4	-10.8	0.199
4-2460	4-2860	0.560	321.0	-2.1	6.55	1.186	116.7	0.569	1.621	281.1	536.0	0.699	---	-5.01	0.415	95.2	60.3	-10.6	0.196
4-2460	4-2880	0.567	321.9	-2.9	6.14	1.186	117.3	0.574	1.617	279.8	539.4	0.689	---	-4.92	0.409	90.8	56.7	-10.2	0.198
4-2460	4-2900	0.578	322.8	-3.7	5.74	1.186	118.0	0.581	1.617	278.3	542.5	0.677	2.556	-4.86	0.406	86.5	54.0	-9.7	0.204
4-2460	4-2920	0.592	323.9	-4.4	5.35	1.186	118.8	0.591	1.619	276.5	545.4	0.663	2.576	-4.84	0.405	82.4	52.3	-9.1	0.214
4-2460	4-2940	0.609	325.1	-5.0	4.96	1.187	119.8	0.602	1.624	274.5	548.0	0.646	2.602	-4.84	0.405	78.3	51.4	-8.5	0.225
4-2460	4-2960	0.628	326.4	-5.6	4.57	1.188	121.0	0.616	1.631	272.3	550.3	0.627	2.635	-4.88	0.407	74.4	51.4	-8.0	0.239
4-2460	4-2980	0.651	327.8	-6.2	4.17	1.189	122.3	0.631	1.639	269.8	552.4	0.605	2.673	-4.95	0.410	70.6	52.2	-7.5	0.255
4-2460	4-3000	0.677	329.3	-6.6	3.76	1.191	123.8	0.648	1.648	267.1	554.2	0.580	2.717	-5.06	0.414	66.8	53.6	-7.1	0.273
4-2460	4-3020	0.707	330.9	-7.0	3.33	1.192	125.4	0.667	1.659	264.2	555.8	0.553	2.766	-5.20	0.418	63.1	55.6	-6.7	0.292
4-2460	4-3040	0.739	332.6	-7.3	2.87	1.194	127.3	0.687	1.670	260.9	557.1	0.522	2.818	-5.39	0.424	59.5	58.0	-6.3	0.312
4-2460	4-3060	0.776	334.4	-7.6	2.37	1.196	129.3	0.710	1.682	257.4	558.1	0.488	2.875	-5.63	0.431	55.8	61.0	-6.0	0.334
4-2460	4-3080	0.816	336.3	-7.7	1.81	1.198	131.6	0.733	1.695	253.6	558.9	0.452	2.938	-5.93	0.438	52.2	64.3	-5.7	0.358
4-2460	4-3100	0.860	338.4	-7.8	1.19	1.200	134.1	0.759	1.708	249.4	559.3	0.412	3.004	-6.31	0.446	48.5	68.0	-5.5	0.384
4-2460	4-3120	0.909	340.5	-7.8	0.48	1.202	136.9	0.786	1.722	244.9	559.5	0.369	3.075	-6.79	0.454	44.7	72.0	-5.3	0.412
4-2460	4-3140	0.962	342.8	-7.6	-0.37	1.204	139.9	0.814	1.737	240.1	559.2	0.323	3.151	-7.41	0.463	40.8	76.4	-5.1	0.443
4-2460	4-3160	1.021	345.3	-7.4	-1.40	1.206	143.3	0.843	1.752	234.8	558.6	0.275	3.229	-8.22	0.472	36.8	81.1	-4.9	0.476
4-2470	4-2670	0.823	325.1	18.2	21.60	1.321	121.8	0.813	3.654	287.8	486.3	0.682	---	-18.16	0.752	141.7	80.5	-14.3	0.587
4-2470	4-2690	0.732	324.5	14.8	17.50	1.283	119.6	0.738	2.679	288.3	491.9	0.702	---	-14.32	0.678	137.3	82.8	-13.3	0.495
4-2470	4-2710	0.668	324.3	12.5	14.82	1.256	117.9	0.682	2.255	288.8	497.4	0.718	---	-11.98	0.618	132.8	84.3	-12.8	0.422
4-2470	4-2730	0.621	324.1	10.6	12.92	1.235	116.5	0.639	2.026	289.2	502.8	0.731	---	-10.29	0.571	128.2	84.9	-12.8	0.363
4-2470	4-2750	0.586	324.1	9.0	11.48	1.221	115.5	0.608	1.888	289.4	508.0	0.741	---	-9.13	0.533	123.8	84.7	-12.9	0.315
4-2470	4-2770	0.561	324.3	7.6	10.34	1.210	114.7	0.585	1.799	289.6	513.1	0.747	---	-8.26	0.503	118.9	83.6	-13.2	0.276
4-2470	4-2790	0.543	324.5	6.3	9.40	1.202	114.2	0.568	1.741	289.6	517.9	0.751	---	-7.61	0.479	114.3	81.5	-13.6	0.245
4-2470	4-2810	0.530	324.9	5.0	8.60	1.197	114.0	0.558	1.702	289.3	522.5	0.753	---	-7.10	0.459	109.7	78.6	-13.9	0.222
4-2470	4-2830	0.523	325.4	3.8	7.90	1.193	113.9	0.551	1.676	288.9	526.8	0.752	---	-6.71	0.445	105.2	74.9	-14.1	0.205
4-2470	4-2850	0.521	326.0	2.6	7.28	1.190	114.0	0.548	1.659	288.2	530.8	0.749	---	-6.40	0.434	100.8	70.8	-14.1	0.194
4-2470	4-2870	0.522	326.7	1.5	6.71	1.189	114.2	0.549	1.649	287.3	534.6	0.744	---	-6.18	0.425	96.5	66.7	-13.9	0.189
4-2470	4-2890	0.527	327.6	0.5	6.18	1.188	114.7	0.552	1.643	286.2	538.1	0.736	---	-5.97	0.420	92.3	62.9	-13.4	0.189
4-2470	4-2910	0.534	328.6	-0.5	5.69	1.188	115.2	0.557	1.642	284.8	541.4	0.727	2.557	-5.84	0.416	88.3	59.9	-12.7	0.192
4-2470	4-2930	0.545	329.7	-1.4	5.22	1.188	116.0	0.565	1.643	283.3	544.4	0.715	2.572	-5.75	0.415	84.4	57.7	-12.0	0.199
4-2470	4-2950	0.559	330.9	-2.2	4.76	1.189	116.8	0.575	1.647	281.5	547.1	0.701	2.594	-5.69	0.415	80.6	58.4	-11.2	0.209
4-2470	4-2970	0.575	332.2	-3.0	4.30	1.189	117.8	0.586	1.653	279.4	549.7	0.684	2.621	-5.68	0.416	76.9	55.9	-10.5	0.221
4-2470	4-2990	0.595	333.6	-3.7	3.85	1.191	118.9	0.599	1.660	277.2	551.9	0.666	2.655	-5.70	0.419	73.3	56.3	-9.8	0.234
4-2470	4-3010	0.617	335.1	-4.3	3.39	1.192	120.2	0.614	1.669	274.7	554.0	0.644	2.693	-5.75	0.422	69.8	57.3	-9.2	0.250
4-2470	4-3030	0.642	336.7	-4.8	2.92	1.193	121.6	0.630	1.678	272.0	555.8	0.621	2.735	-5.85	0.427	66.4	58.9	-8.6	0.266
4-2470	4-3050	0.670	338.4	-5.2	2.43	1.195	123.2	0.648	1.688	269.0	557.4	0.594	2.783	-5.98	0.433	63.1	61.0	-8.1	0.284
4-2470	4-3070	0.701	340.1	-5.5	1.91	1.196	125.0	0.668	1.699	265.8	558.7	0.565	2.834	-6.17	0.439	59.7	63.6	-7.7	0.304
4-2470	4-3090	0.736	342.0	-5.7	1.35	1.198	127.0	0.689	1.711	262.3	559.8	0.532	2.891	-6.41	0.445	56.4	66.7	-7.3	0.325
4-2470	4-3110	0.775	343.9	-5.9	0.74	1.200	129.1	0.712	1.724	258.5	560.6	0.496	2.951	-6.71	0.453	53.0	70.1	-7.0	0.348
4-2470	4-3130	0.818	346.0	-5.9	0.06	1.202	131.5	0.737	1.737	254.4	561.2	0.457	3.017	-7.10	0.461	49.6	73.8	-6.7	0.373
4-2470	4-3150	0.865	348.2	-5.9	-0.71	1.204	134.2	0.763	1.750	249.9	561.4	0.414	3.088	-7.58	0.469	46.1	77.9	-6.4	0.400
4-2470	4-3170	0.917	350.5	-5.7	-1.62	1.205	137.1	0.791	1.765	245.1	561.2	0.368	3.161	-8.21	0.478	42.5	82.3	-6.2	0.430
4-2480	4-2680	0.944	333.2	36.8	34.74	1.325	120.0	0.815	3.856	292.2	484.2	0.715	---	-32.05	0.759	141.2	79.9	-23.4	0.637
4-2480	4-2700	0.781	330.2	29.0	25.05	1.287	117.7	0.735	2.783	293.1	489.7	0.737	---	-22.64	0.685	136.9	84.5	-20.3	0.521
4-2480	4-2720	0.684	329.3	23.8	19.65	1.259	115.9	0.676	2.325	293.8	495.3	0.754	---	-17.53	0.627	132.5	87.0	-18.5	0.438
4-2480	4-2740	0.620	329.0	20.1	16.21	1.239	114.5	0.631	2.080	294.4	500.8	0.767	---	-14.39	0.580	128.0	88.3	-17.7	0.374
4-2480	4-2760	0.575	328.9	17.1	13.82	1.224	113.4	0.598	1.933	294.9	506.1	0.777	---	-12.30	0.542	123.5	88.6	-17.3	0.323
4-2480	4-2780	0.543	329.1	14.7	12.04	1.213	112.6	0.573	1.839	295.2	511.2	0.785	---	-10.81	0.512	119.0	88.0	-17.3	0.282
4-2480	4-2800	0.520	329.4	12.5	10.65	1.205	112.1	0.556	1.777	295.3	516.1	0.790	---	-9.72	0.488	114.6	86.4	-17.5	0.250
4-2480	4-2820	0.504	329.8	10.6	9.51	1.199	111.8	0.543	1.734	295.2	520.8	0.792	---	-8.89	0.469	110.1	83.9	-17.7	0.224
4-2480	4-2840	0.493	330.4	8.8	8.56	1.195	111.6	0.536	1.706	294.9	525.2	0.792	---	-8.25	0.454	105.8	80.6	-17.8	0.205
4-2480	4-2860	0.488	331.1	7.2	7.73	1.193	111.7	0.532	1.687	294.4	529.4	0.790	---	-7.75	0.443	101.6	76.8	-17.7	0.193
4-2480	4-2880	0.486	331.9	5.7	7.00	1.191	111.8	0.531	1.675	293.6	533.3	0.786	---	-7.36	0.435	97.5	72.8	-17.4	0.185
4-2480	4-2900	0.488	332.9	4.3	6.34	1.190	112.2	0.532	1.669	292.6	536.9	0.781	---	-7.05	0.429	93.5	68.9	-16.8	0.182
4-2480	4-2920	0.493	333.9	3.0	5.73	1.189	112.7	0.536	1.666	291.4	540.3	0.773	2.560	-6.80	0.426	89.7	65.6	-15.9	0.184
4-2480	4-2940	0.501	335.1	1.8	5.17	1.189	113.3	0.542	1.667	290.0	543.4	0.763	2.570	-6.62	0.424	86.0	63.0	-15.0	0.188
4-2480	4-2960	0.512	336.4	0.7	4.63	1.190	114.0	0.550	1.670	288.4	546.3	0.751	2.588	-6.49	0.424	82.4	61.3	-14.0	0.196
4-2480	4-2980	0.526	337.7	-0.2	4.11	1.191	114.8	0.559	1.674	286.5	549.0	0.738	2.611	-6.40	0.425	78.9	60.5	-13.1	0.205
4-2480	4-3000	0.542	339.2	-1.1	3.60	1.192	115.8	0.570	1.681	284.4	551.5	0.722	2.640	-6.35	0.428	75.6	60.5	-12.2	0.217
4-2480	4-3020	0.561	340.7	-1.8	3.09	1.193	116.9	0.583	1.688	282.1	553.7	0.704	2.673	-6.35	0.431	72.3	61.1	-11.4	0.230
4-2480	4-3040	0.582	342.3	-2.5	2.59	1.194	118.2	0.597	1.697	279.6	555.7	0.684	2.711	-6.38	0.435	69.1	62.4	-10.6	0.245
4-2480	4-3060	0.607	344.0	-3.0	2.07	1.195	119.5	0.613	1.707	276.9	557.5	0.661	2.753	-6.45	0.441	66.0	64.2	-10.0	0.261
4-2480	4-3080	0.634	345.7	-3.4	1.53	1.197	121.1	0.630	1.717	273.9	559.1	0.635	2.799	-6.57	0.447	63.0	66.5	-9.4	0.278
4-2480	4-3100	0.664	347.6	-3.7	0.97	1.198	122.8	0.649	1.728	270.7	560.5	0.607	2.850	-6.74	0.453	59.9	69.3	-8.9	0.297
4-2480	4-3120	0.698	349.5	-4.0	0.37	1.200	124.7	0.669	1.740	267.2	561.6	0.575	2.904	-6.97	0.460	56.9	72.4	-8.5	0.317
4-2480	4-3140	0.735	351.5	-4.1	-0.28	1.202	126.7	0.692	1.752	263.4	562.5	0.540	2.964	-7.26	0.468	53.8	75.9	-8.1	0.340
4-2490	4-3160	0.777	353.6	-4.1	-1.00	1.203	129.1	0.716	1.765	259.3	563.0	0.501	3.028	-7.64	0.476	50.6	79.7	-7.7	0.364
4-2480	4-3180	0.823	355.8	-4.0	-1.80	1.205	131.6	0.742	1.778	254.8	563.3	0.459	3.096	-8.12	0.485	47.4	83.9	-7.4	0.390
4-2490	4-2710	0.982	340.9	50.8	42.25	1.289	115.9	0.732	2.872	297.4	487.9	0.768	---	-40.62	0.691	136.4	80.3	-30.7	0.607
4-2490	4-2730	0.770	334.7	40.7	29.10	1.261	114.0	0.670	2.387	298.7	493.5	0.768	---	-27.77	0.633	132.1	87.0	-27.1	0.481

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2490	4-2750	0.655	333.1	33.5	22.01	1.241	112.5	0.623	2.129	299.6	499.0	0.802	---	-20.99	0.587	I27.7	90.1	-24.6	0.399
4-2490	4-2770	0.584	332.8	28.1	17.65	1.226	111.4	0.588	1.974	300.3	504.4	0.813	---	-16.93	0.549	I23.3	91.5	-23.2	0.339
4-2490	4-2790	0.537	332.9	23.9	14.69	1.215	110.5	0.562	1.875	300.8	509.6	0.821	---	-14.27	0.520	118.9	91.5	-22.5	0.293
4-2490	4-2810	0.504	333.3	20.4	12.53	1.207	110.0	0.543	1.809	301.1	514.6	0.826	---	-12.42	0.496	I14.6	90.5	-22.1	0.258
4-2490	4-2830	0.482	333.9	17.5	10.86	1.201	109.6	0.530	1.764	301.2	519.4	0.829	---	-11.07	0.477	110.4	88.6	-22.0	0.230
4-2490	4-2850	0.467	334.6	14.9	9.52	1.197	109.4	0.521	1.734	301.0	523.9	0.830	---	-10.05	0.463	106.2	85.7	-21.8	0.208
4-2490	4-2870	0.457	335.5	12.5	8.41	1.194	109.4	0.516	1.714	300.6	528.1	0.829	---	-9.27	0.452	102.1	82.2	-21.6	0.193
4-2490	4-2890	0.452	336.4	10.4	7.46	1.192	109.5	0.514	1.700	300.0	532.1	0.827	---	-8.65	0.443	98.2	78.4	-21.1	0.183
4-2490	4-2910	0.452	337.5	8.5	6.63	1.191	109.8	0.514	1.693	299.2	535.8	0.822	---	-8.17	0.438	94.4	74.5	-20.3	0.178
4-2490	4-2930	0.454	338.7	6.8	5.88	1.191	110.1	0.517	1.689	298.1	539.3	0.816	---	-7.78	0.434	90.7	71.0	-19.3	0.177
4-2490	4-2950	0.460	340.0	5.3	5.20	1.191	110.6	0.522	1.689	296.8	542.6	0.808	2.570	-7.48	0.432	87.2	68.2	-18.2	0.180
4-2490	4-2970	0.468	341.4	3.9	4.57	1.191	111.3	0.528	1.691	295.3	545.6	0.799	2.584	-7.24	0.432	83.8	66.2	-17.0	0.185
4-2490	4-2990	0.479	342.8	2.7	3.98	1.191	112.0	0.536	1.695	293.6	548.4	0.787	2.603	-7.06	0.433	80.6	65.0	-15.8	0.193
4-2490	4-3010	0.492	344.4	1.6	3.41	1.192	112.9	0.545	1.701	291.7	551.0	0.774	2.628	-6.93	0.436	77.4	64.7	-14.7	0.203
4-2490	4-3030	0.509	346.0	0.6	2.85	1.193	113.8	0.556	1.708	289.5	553.4	0.759	2.657	-6.85	0.439	74.3	65.0	-13.6	0.214
4-2490	4-3050	0.527	347.6	-0.2	2.31	1.194	114.9	0.568	1.716	287.2	555.6	0.741	2.690	-6.82	0.443	71.4	66.0	-12.7	0.227
4-2490	4-3070	0.548	349.4	-0.8	1.76	1.196	116.1	0.582	1.725	284.6	557.6	0.722	2.728	-6.82	0.448	68.5	67.5	-11.9	0.241
4-2490	4-3090	0.572	351.2	-1.4	1.21	1.197	117.5	0.597	1.735	281.9	559.4	0.700	2.769	-6.87	0.454	65.6	69.6	-11.1	0.256
4-2490	4-3110	0.598	353.0	-1.8	0.64	1.198	119.0	0.613	1.745	278.8	561.0	0.675	2.815	-6.97	0.461	62.8	72.1	-10.5	0.273
4-2490	4-3130	0.628	354.9	-2.1	0.05	1.200	120.6	0.631	1.756	275.6	562.4	0.648	2.864	-7.12	0.468	60.0	75.0	-9.9	0.291
4-2490	4-3150	0.661	356.9	-2.3	-0.57	1.201	122.4	0.651	1.767	272.1	563.5	0.617	2.918	-7.32	0.475	57.2	78.2	-9.4	0.311
4-2490	4-3170	0.697	359.0	-2.4	-1.25	1.203	124.5	0.672	1.779	268.2	564.4	0.583	2.976	-7.59	0.483	54.4	81.8	-9.0	0.332
4-2490	4-3190	0.738	1.2	-2.3	-1.99	1.205	126.7	0.696	1.792	264.1	565.0	0.545	3.038	-7.95	0.491	51.5	85.7	-8.6	0.356
4-2500	4-2740	1.085	353.5	64.9	52.13	1.262	112.3	0.665	2.438	302.9	492.0	0.816	---	-51.58	0.638	I31.7	77.7	-36.8	0.622
4-2500	4-2760	0.795	338.7	53.1	34.14	1.242	110.6	0.616	2.170	304.7	497.4	0.834	---	-33.89	0.592	I27.3	87.6	-34.2	0.467
4-2500	4-2780	0.645	335.8	43.7	24.74	1.227	109.3	0.579	2.010	305.8	502.9	0.846	---	-24.81	0.555	123.0	92.0	-31.3	0.377
4-2500	4-2800	0.559	335.5	36.5	19.19	1.216	108.4	0.552	1.907	306.6	508.2	0.855	---	-19.56	0.526	118.7	93.6	-29.2	0.316
4-2500	4-2820	0.505	336.0	30.9	15.54	1.208	107.8	0.532	1.838	307.1	513.3	0.861	---	-16.22	0.503	114.5	93.6	-27.9	0.273
4-2500	4-2840	0.470	336.8	26.3	12.94	1.202	107.4	0.518	1.791	307.3	518.1	0.864	---	-13.93	0.484	110.4	92.4	-27.1	0.240
4-2500	4-2860	0.447	337.7	22.3	10.98	1.198	107.2	0.508	1.759	307.3	522.7	0.866	---	-12.29	0.470	106.3	90.1	-26.5	0.215
4-2500	4-2880	0.431	338.8	19.0	9.43	1.195	107.1	0.502	1.738	307.1	527.0	0.866	---	-11.06	0.459	102.4	87.0	-25.9	0.197
4-2500	4-2900	0.422	340.0	16.0	8.16	1.193	107.2	0.499	1.724	306.6	531.1	0.864	---	-10.12	0.451	98.7	83.4	-25.1	0.185
4-2500	4-2920	0.418	341.3	13.4	7.09	1.192	107.4	0.498	1.715	305.9	534.9	0.861	---	-9.38	0.445	95.0	79.6	-24.1	0.177
4-2500	4-2940	0.417	342.7	11.0	6.16	1.191	107.7	0.500	1.711	304.9	538.5	0.856	---	-8.80	0.442	91.5	76.1	-22.9	0.174
4-2500	4-2960	0.420	344.2	9.0	5.33	1.191	108.1	0.503	1.710	303.7	541.8	0.850	2.570	-8.34	0.440	88.1	73.1	-21.5	0.174
4-2500	4-2980	0.426	345.8	7.2	4.59	1.191	108.7	0.508	1.711	302.3	545.0	0.842	2.581	-7.97	0.440	84.9	70.9	-20.0	0.178
4-2500	4-3000	0.435	347.4	5.6	3.90	1.192	109.3	0.515	1.715	300.7	547.9	0.832	2.597	-7.68	0.441	81.8	69.4	-18.5	0.184
4-2500	4-3020	0.446	349.1	4.2	3.26	1.193	110.1	0.523	1.720	298.9	550.6	0.821	2.619	-7.45	0.443	78.8	68.8	-17.1	0.192
4-2500	4-3040	0.460	350.9	3.1	2.65	1.194	110.9	0.532	1.726	296.9	553.1	0.809	2.644	-7.29	0.447	75.9	68.8	-15.9	0.201
4-2500	4-3060	0.476	352.6	2.1	2.06	1.195	111.9	0.542	1.734	294.7	555.5	0.794	2.674	-7.17	0.451	73.2	69.5	-14.7	0.212
4-2500	4-3080	0.494	354.5	1.2	1.49	1.196	113.0	0.554	1.742	292.3	557.6	0.777	2.707	-7.10	0.456	70.4	70.9	-13.7	0.224
4-2500	4-3100	0.515	356.4	0.5	0.91	1.197	114.1	0.567	1.752	289.7	559.6	0.759	2.744	-7.07	0.462	67.8	72.7	-12.8	0.238
4-2500	4-3120	0.538	358.3	0.0	0.34	1.198	115.5	0.581	1.761	286.8	561.4	0.738	2.785	-7.10	0.468	65.2	74.9	-12.0	0.253
4-2500	4-3140	0.564	0.3	-0.4	-0.25	1.200	116.9	0.597	1.772	283.8	563.0	0.714	2.830	-7.17	0.475	62.6	77.6	-11.3	0.269
4-2500	4-3160	0.593	2.3	-0.7	-0.85	1.201	118.5	0.614	1.783	280.5	564.3	0.687	2.878	-7.29	0.482	60.1	80.7	-10.7	0.286
4-2500	4-3180	0.625	4.4	-0.8	-1.49	1.203	120.3	0.633	1.794	276.9	565.5	0.658	2.930	-7.47	0.490	57.5	84.0	-10.1	0.306
4-2500	4-3200	0.661	6.5	-0.8	-2.17	1.204	122.3	0.654	1.806	273.0	566.4	0.624	2.987	-7.71	0.498	54.9	87.8	-9.6	0.327
4-2510	4-2710	0.809	33.5	-42.4	-30.76	1.327	111.4	0.798	4.212	311.4	477.5	0.850	---	31.18	0.767	138.3	90.8	25.5	0.614
4-2510	4-2730	0.998	58.3	-44.4	-46.39	1.290	109.1	0.708	2.986	313.3	483.4	0.671	---	46.49	0.696	E34.1	83.4	35.0	0.632
4-2510	4-2790	0.864	342.8	66.1	40.82	1.228	107.4	0.570	2.038	311.0	501.7	0.876	---	-41.65	0.559	122.8	85.9	-40.4	0.483
4-2510	4-2810	0.657	336.9	54.3	28.07	1.217	106.4	0.542	1.933	312.3	507.1	0.886	---	-29.21	0.530	I18.4	92.4	-37.8	0.372
4-2510	4-2830	0.546	336.8	45.2	20.90	1.209	105.6	0.521	1.863	313.2	512.2	0.893	---	-22.34	0.508	I14.2	94.8	-35.3	0.305
4-2510	4-2850	0.480	337.8	37.9	16.39	1.203	105.2	0.506	1.815	313.6	517.1	0.897	---	-18.13	0.490	110.2	94.8	-33.4	0.260
4-2510	4-2870	0.439	339.2	32.0	13.27	1.199	104.9	0.495	1.782	313.8	521.8	0.899	---	-15.32	0.476	106.3	93.4	-32.0	0.228
4-2510	4-2890	0.413	340.8	27.0	10.98	1.196	104.8	0.489	1.759	313.7	526.2	0.899	---	-13.34	0.465	102.5	90.9	-30.7	0.205
4-2510	4-2910	0.397	342.4	22.7	9.21	1.194	104.8	0.485	1.744	313.3	530.3	0.898	---	-11.88	0.457	98.9	87.7	-29.5	0.189
4-2510	4-2930	0.388	344.1	19.0	7.78	1.192	105.0	0.484	1.735	312.7	534.2	0.896	---	-10.78	0.452	95.4	84.1	-28.1	0.179
4-2510	4-2950	0.383	345.8	15.8	6.59	1.192	105.3	0.484	1.730	311.8	537.9	0.892	---	-9.92	0.449	92.0	80.7	-26.5	0.173
4-2510	4-2970	0.383	347.6	13.1	5.57	1.191	105.6	0.487	1.729	310.7	541.3	0.887	2.571	-9.24	0.447	88.8	77.6	-24.8	0.171
4-2510	4-2990	0.387	349.5	10.7	4.68	1.192	106.1	0.491	1.730	309.4	544.5	0.881	2.579	-8.70	0.447	85.7	75.2	-23.0	0.172
4-2510	4-3010	0.393	351.4	8.6	3.88	1.192	106.7	0.496	1.733	307.9	547.5	0.873	2.593	-8.27	0.448	82.7	73.6	-21.2	0.177
4-2510	4-3030	0.402	353.3	6.8	3.15	1.193	107.4	0.503	1.738	306.2	550.3	0.864	2.612	-7.92	0.450	79.9	72.7	-19.6	0.183
4-2510	4-3050	0.414	355.2	5.4	2.47	1.194	108.1	0.511	1.744	304.3	553.0	0.853	2.634	-7.65	0.454	77.2	72.5	-18.0	0.191
4-2510	4-3070	0.427	357.2	4.1	1.84	1.195	109.0	0.520	1.751	302.2	555.4	0.841	2.661	-7.44	0.458	74.5	73.0	-16.6	0.200
4-2510	4-3090	0.443	359.2	3.1	1.23	1.196	110.0	0.530	1.759	299.9	557.7	0.827	2.691	-7.29	0.463	72.0	74.1	-15.4	0.211
4-2510	4-3110	0.462	1.3	2.2	0.63	1.197	111.0	0.541	1.768	297.4	559.8	0.811	2.724	-7.19	0.469	69.5	75.7	-14.3	0.223
4-2510	4-3130	0.482	3.3	1.6	0.05	1.198	112.2	0.553	1.777	294.7	561.7	0.794	2.761	-7.13	0.475	67.1	77.8	-13.3	0.236
4-2510	4-3150	0.505	5.4	1.1	-0.53	1.199	113.5	0.567	1.787	291.8	563.5	0.773	2.801	-7.13	0.482	64.8	80.3	-12.5	0.250
4-2510	4-3170	0.531	7.5	0.7	-1.13	1.201	114.9	0.582	1.798	288.7	565.1	0.751	2.845	-7.17	0.489	62.4	83.2	-11.7	0.266
4-2510	4-3190	0.560	9.6	0.5	-1.74	1.202	116.5	0.599	1.808	285.3	566.4	0.725	2.892	-7.26	0.497	60.1	86.4	-11.1	0.283
4-2510	4-3210	0.591	11.8	0.4	-2.37	1.203	118.3	0.617	1.820	281.6	567.6	0.696	2.943	-7.41	0.505	57.7	90.0	-10.5	0.301
4-2520	4-2700	0.672	16.4	-29.0	-16.52	1.375	111.2	0.912	9.825	315.4	470.1	0.886	---	16.48	0.853	I41.3	97.5	13.7	0.641
4-2520	4-2720	0.653	24.3	-36.5	-20.70	1.325	109.0	0.790	4.204	316.7	476.3	0.883	---	20.34	0.765	137.4	98.2	18.7	0.560
4-2520	4-2740	0.694	37.5	-43.9	-27.20	1.288	107.1	0.701	3.002	318.2	482.5	0.899	---	26.52	0.695	I33.5	97.0	26.0	0.513
4-2520	4-2760	0.834	58.6	-47.6	-38.45	1.261	105.3	0.634	2.494	320.1	488.6	0.913	---	37.47	0.840	129.3	91.6	35.4	0.520
4-2520	4-2780	1.160	83.5	-41.3	-60.09	1.242	103.6	0.582	2.222	322.7	494.5	0.928	---	58.80	0.596	125.1	78.3	41.6	0.629
4-2520	4-2820	0.992	350.9	79.6	50.32	1.217	104.5	0.533	1.953	317.4	506.3	0.912	---	-52.19	0.533	118.0	82.2	-44.0	0.535
4-2520	4-2840	0.698	335.0	65.2	32.43	1.209	103.5	0.511	1.882	319.1	511.5	0.921	---	-34.59	0.511	113.9	91.3	-43.4	0.386
4-2520	4-2860	0.545	335.7	53.8	22.93	1.203	103.0	0.495	1.834	320.0	516.5	0.926	---	-25.38	0.494	109.9	94.9	-40.9	0.304
4-2520	4-2880	0.461	338.0	44.8	17.27	1.199	102.7	0.484	1.800	320.4	521.2	0.929	---	-20.01	0.480	106.1	95.2	-38.5	0.254

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2520	4-2900	0.412	340.5	37.4	13.53	1.196	102.5	0.477	1.778	320.5	525.7	0.930	---	-16.57	0.470	102.4	93.7	-36.3	0.221
4-2520	4-2920	0.382	342.9	31.2	10.87	1.194	102.5	0.473	1.762	320.2	529.9	0.929	---	-14.20	0.463	98.8	91.1	-34.4	0.199
4-2520	4-2940	0.364	345.3	25.9	8.86	1.192	102.6	0.471	1.753	319.7	533.8	0.928	---	-12.49	0.457	95.5	88.0	-32.4	0.184
4-2520	4-2960	0.354	347.6	21.5	7.27	1.192	102.9	0.471	1.748	318.9	537.5	0.925	---	-11.21	0.454	92.2	84.6	-30.4	0.175
4-2520	4-2980	0.350	349.9	17.6	5.97	1.191	103.2	0.473	1.746	317.9	541.0	0.921	2.571	-10.23	0.453	89.1	81.6	-28.2	0.170
4-2520	4-3000	0.350	352.2	14.4	4.87	1.192	103.6	0.476	1.747	316.7	544.3	0.916	2.578	-9.46	0.453	86.2	79.1	-26.0	0.169
4-2520	4-3020	0.354	354.4	11.7	3.92	1.192	104.1	0.480	1.750	315.3	547.3	0.910	2.590	-8.84	0.454	83.3	77.3	-23.9	0.172
4-2520	4-3040	0.361	356.7	9.4	3.08	1.193	104.8	0.486	1.754	313.6	550.2	0.902	2.606	-8.35	0.467	80.6	76.3	-21.8	0.176
4-2520	4-3060	0.371	359.0	7.4	2.32	1.193	105.5	0.492	1.760	311.8	552.9	0.893	2.627	-7.96	0.460	78.1	76.0	-20.0	0.182
4-2520	4-3080	0.382	1.2	5.8	1.62	1.194	106.2	0.500	1.767	309.8	555.4	0.883	2.651	-7.65	0.465	75.6	76.3	-18.3	0.190
4-2520	4-3100	0.396	3.5	4.6	0.97	1.195	107.1	0.509	1.775	307.5	557.8	0.872	2.678	-7.40	0.470	73.2	77.2	-16.9	0.200
4-2520	4-3120	0.413	5.7	3.5	0.35	1.196	108.1	0.519	1.783	305.1	560.0	0.858	2.708	-7.22	0.475	70.9	78.7	-15.6	0.210
4-2520	4-3140	0.431	7.9	2.7	-0.25	1.198	109.2	0.529	1.792	302.6	562.1	0.843	2.741	-7.08	0.481	68.7	80.7	-14.4	0.222
4-2520	4-3160	0.452	10.2	2.1	-0.83	1.199	110.3	0.541	1.802	299.8	564.0	0.826	2.778	-7.00	0.488	66.5	83.0	-13.5	0.234
4-2520	4-3180	0.475	12.4	1.7	-1.41	1.200	111.6	0.555	1.812	296.8	565.7	0.807	2.817	-6.97	0.496	64.3	85.8	-12.6	0.248
4-2520	4-3200	0.500	14.6	1.5	-2.00	1.202	113.0	0.569	1.823	293.5	567.3	0.785	2.860	-6.98	0.503	62.2	88.8	-11.8	0.264
4-2520	4-3220	0.528	16.9	1.4	-2.60	1.203	114.6	0.585	1.833	290.0	568.6	0.760	2.907	-7.04	0.511	60.0	92.2	-11.2	0.280
4-2530	4-2710	0.602	17.2	-25.1	-13.28	1.370	108.3	0.900	9.027	321.2	469.0	0.901	---	12.45	0.866	140.3	101.5	10.9	0.617
4-2530	4-2730	0.564	21.9	-31.7	-15.69	1.321	106.3	0.778	4.124	322.6	475.3	0.916	---	14.54	0.760	136.5	102.9	14.3	0.530
4-2530	4-2750	0.558	28.9	-38.9	-18.99	1.285	104.5	0.689	2.987	324.1	481.7	0.929	---	17.55	0.692	132.6	103.5	19.2	0.467
4-2530	4-2770	0.595	40.0	-45.8	-23.90	1.259	103.1	0.624	2.496	325.7	488.0	0.939	---	22.16	0.639	128.6	102.6	26.1	0.428
4-2530	4-2790	0.697	57.5	-50.5	-31.93	1.240	101.8	0.574	2.230	327.4	494.1	0.949	---	29.90	0.596	124.5	98.7	35.0	0.427
4-2530	4-2810	0.926	81.2	-48.7	-46.77	1.226	100.5	0.537	2.069	329.5	500.1	0.958	---	44.46	0.562	120.4	88.9	43.3	0.495
4-2530	4-2850	1.203	134.1	84.8	64.61	1.208	101.9	0.503	1.896	323.9	511.0	0.942	---	-67.47	0.513	113.5	77.9	-43.5	0.632
4-2530	4-2870	0.779	324.6	76.0	38.62	1.202	100.9	0.485	1.848	326.2	516.1	0.951	---	-41.76	0.496	109.5	88.9	-47.2	0.424
4-2530	4-2890	0.562	330.8	62.2	25.48	1.198	100.4	0.474	1.815	327.1	520.9	0.955	---	-28.88	0.483	105.7	94.0	-45.6	0.315
4-2530	4-2910	0.450	336.0	51.4	18.22	1.195	100.2	0.466	1.792	327.5	525.4	0.956	---	-21.89	0.474	102.1	94.9	-42.8	0.254
4-2530	4-2930	0.388	340.2	42.3	13.69	1.193	100.2	0.462	1.777	327.4	529.7	0.957	---	-17.64	0.467	98.6	93.5	-40.0	0.218
4-2530	4-2950	0.352	344.0	34.7	10.60	1.192	100.3	0.460	1.768	327.0	533.7	0.955	---	-14.82	0.462	95.3	90.9	-37.2	0.195
4-2530	4-2970	0.332	347.3	28.3	8.34	1.191	100.5	0.459	1.763	326.3	537.4	0.953	---	-12.84	0.459	92.2	87.9	-34.5	0.180
4-2530	4-2990	0.321	350.5	23.0	6.60	1.191	100.8	0.460	1.761	325.3	540.9	0.950	2.572	-11.39	0.458	89.2	85.0	-31.7	0.172
4-2530	4-3010	0.318	353.5	18.5	5.20	1.191	101.2	0.463	1.762	324.1	544.2	0.946	2.577	-10.28	0.458	86.4	82.5	-29.0	0.169
4-2530	4-3030	0.319	356.4	14.8	4.04	1.192	101.6	0.467	1.765	322.7	547.3	0.941	2.588	-9.43	0.460	83.7	80.7	-26.4	0.168
4-2530	4-3050	0.323	359.1	11.7	3.05	1.192	102.2	0.471	1.769	321.1	550.2	0.935	2.603	-8.75	0.463	81.1	79.5	-24.0	0.171
4-2530	4-3070	0.331	1.8	9.2	2.18	1.193	102.9	0.477	1.775	319.3	553.0	0.928	2.621	-8.21	0.466	78.7	79.1	-21.8	0.176
4-2530	4-3090	0.341	4.5	7.2	1.41	1.194	103.6	0.484	1.781	317.4	555.6	0.920	2.643	-7.77	0.471	76.3	79.3	-19.8	0.183
4-2530	4-3110	0.353	7.1	5.6	0.71	1.195	104.4	0.491	1.789	315.2	558.0	0.910	2.668	-7.43	0.476	74.1	80.2	-18.1	0.191
4-2530	4-3130	0.367	9.6	4.3	0.05	1.196	105.3	0.500	1.797	312.9	560.3	0.900	2.695	-7.15	0.481	71.9	81.5	-16.6	0.200
4-2530	4-3150	0.384	12.1	3.4	-0.56	1.197	106.3	0.509	1.806	310.4	562.5	0.887	2.728	-6.94	0.488	69.8	83.4	-15.3	0.210
4-2530	4-3170	0.402	14.5	2.7	-1.15	1.198	107.3	0.519	1.816	307.7	564.5	0.873	2.759	-6.78	0.495	67.8	85.6	-14.1	0.221
4-2530	4-3190	0.423	17.0	2.2	-1.72	1.200	108.5	0.531	1.826	304.7	566.3	0.857	2.795	-6.67	0.502	65.8	88.3	-13.1	0.234
4-2530	4-3210	0.446	19.4	1.9	-2.29	1.201	109.8	0.544	1.836	301.6	568.0	0.838	2.834	-6.62	0.510	63.8	91.2	-12.3	0.248
4-2530	4-3230	0.471	21.8	1.8	-2.85	1.202	111.2	0.558	1.847	298.3	569.6	0.817	2.876	-6.60	0.518	61.9	94.5	-11.5	0.263
4-2540	4-2700	0.613	16.2	-17.9	-10.02	1.429	107.4	1.055	16.805	326.1	461.8	0.921	---	8.69	0.943	142.8	103.1	7.0	0.705
4-2540	4-2720	0.542	18.5	-22.9	-11.25	1.363	105.3	0.883	8.003	327.4	468.2	0.935	---	9.61	0.835	139.2	105.1	8.8	0.594
4-2540	4-2740	0.497	21.4	-28.7	-12.75	1.316	103.4	0.762	3.978	328.9	474.7	0.947	---	10.81	0.752	135.5	106.7	11.3	0.507
4-2540	4-2760	0.476	25.4	-35.1	-14.67	1.281	101.8	0.675	2.941	330.6	481.3	0.957	---	12.44	0.686	131.6	107.8	14.6	0.439
4-2540	4-2780	0.478	31.3	-41.8	-17.22	1.256	100.5	0.611	2.479	332.2	487.7	0.965	---	14.72	0.634	127.6	108.1	19.2	0.388
4-2540	4-2800	0.508	40.4	-48.2	-20.87	1.238	99.4	0.563	2.226	333.9	494.0	0.972	---	18.10	0.593	123.6	107.3	25.6	0.356
4-2540	4-2820	0.582	54.7	-53.3	-26.52	1.224	98.4	0.528	2.071	335.4	500.1	0.978	---	23.49	0.560	119.7	104.4	33.9	0.348
4-2540	4-2840	0.736	75.7	-54.5	-36.40	1.214	97.6	0.501	1.971	337.0	505.9	0.982	---	33.11	0.534	115.7	97.5	42.9	0.386
4-2540	4-2860	1.059	100.1	-47.4	-56.20	1.207	96.7	0.481	1.903	339.1	511.5	0.988	---	52.67	0.514	111.7	85.0	47.1	0.518
4-2540	4-2900	0.928	260.8	83.9	48.36	1.197	98.4	0.466	1.825	333.3	520.9	0.975	---	-52.39	0.485	105.2	86.0	-48.3	0.497
4-2540	4-2920	0.602	318.5	69.8	28.99	1.195	97.9	0.457	1.803	334.5	525.5	0.978	---	-33.26	0.476	101.6	92.7	-49.0	0.339
4-2540	4-2940	0.446	330.9	57.1	19.30	1.193	97.8	0.453	1.789	334.7	529.8	0.979	---	-23.82	0.470	98.2	94.1	-46.3	0.260
4-2540	4-2960	0.366	338.3	46.3	13.73	1.192	97.9	0.450	1.780	334.4	533.8	0.978	---	-18.50	0.466	95.0	92.8	-42.7	0.217
4-2540	4-2980	0.324	344.0	37.2	10.14	1.191	98.1	0.450	1.775	333.8	537.6	0.977	---	-15.16	0.463	92.0	90.4	-39.1	0.192
4-2540	4-3000	0.301	348.7	29.5	7.62	1.191	98.3	0.450	1.773	332.9	541.1	0.975	2.572	-12.89	0.462	89.1	87.7	-35.5	0.178
4-2540	4-3020	0.290	352.9	23.1	5.74	1.191	98.7	0.452	1.774	331.7	544.4	0.972	2.577	-11.26	0.463	86.4	85.3	-32.0	0.170
4-2540	4-3040	0.287	356.7	17.9	4.26	1.191	99.2	0.455	1.777	330.4	547.5	0.968	2.587	-10.05	0.465	83.8	83.5	-28.8	0.167
4-2540	4-3060	0.289	0.2	13.8	3.06	1.192	99.7	0.459	1.782	328.8	550.5	0.963	2.600	-9.12	0.468	81.3	82.3	-25.9	0.168
4-2540	4-3080	0.294	3.6	10.5	2.05	1.193	100.3	0.464	1.788	327.0	553.3	0.958	2.617	-8.40	0.472	79.0	81.8	-23.2	0.171
4-2540	4-3100	0.302	6.7	7.9	1.18	1.194	101.0	0.470	1.794	325.1	555.9	0.951	2.638	-7.82	0.476	76.8	82.0	-20.9	0.177
4-2540	4-3120	0.313	9.8	5.9	0.41	1.195	101.7	0.476	1.802	323.0	558.4	0.943	2.661	-7.36	0.481	74.7	82.8	-18.9	0.183
4-2540	4-3140	0.326	12.7	4.4	-0.28	1.196	102.6	0.484	1.810	320.7	560.7	0.935	2.686	-6.99	0.487	72.6	84.1	-17.2	0.191
4-2540	4-3160	0.341	15.6	3.3	-0.91	1.197	103.5	0.492	1.819	318.2	563.0	0.924	2.714	-8.69	0.494	70.7	85.9	-15.7	0.201
4-2540	4-3180	0.357	18.3	2.5	-1.51	1.198	104.5	0.501	1.829	315.5	565.0	0.913	2.745	-6.46	0.501	68.8	88.1	-14.4	0.211
4-2540	4-3200	0.376	21.0	2.0	-2.07	1.199	105.6	0.511	1.839	312.7	567.0	0.899	2.778	-6.29	0.508	66.9	90.7	-13.3	0.222
4-2540	4-3220	0.397	23.7	1.7	-2.61	1.200	106.8	0.522	1.849	309.6	568.8	0.884	2.813	-6.16	0.516	65.1	93.6	-12.4	0.234
4-2540	4-3240	0.420	26.3	1.7	-3.15	1.202	108.1	0.534	1.859	306.4	570.5	0.866	2.852	-6.09	0.524	63.4	96.8	-11.5	0.248
4-2550	4-2710	0.555	18.0	-17.2	-9.04	1.417	104.0	1.029	32.465	332.5	461.3	0.953	---	6.85	0.926	141.6	106.2	5.8	0.678
4-2550	4-2730	0.487	19.3	-22.0	-9.88	1.354	102.0	0.861	6.929	334.1	467.9	0.964	---	7.40	0.822	138.1	108.2	7.1	0.570
4-2550	4-2750	0.442	21.0	-27.4	-10.87	1.309	100.3	0.742	3.781	335.8	474.7	0.974	---	8.12	0.741	134.4	109.8	8.9	0.485
4-2550	4-2770	0.415	23.1	-33.3	-12.05	1.276	98.8	0.658	2.866	337.7	481.4	0.981	---	9.04	0.678	130.5	111.0	11.2	0.416
4-2550	4-2790	0.405	26.2	-39.3	-13.52	1.252	97.6	0.596	2.444	339.5	488.0	0.987	---	10.26	0.628	126.6	111.7	14.3	0.363
4-2550	4-2810	0.410	30.9	-45.3	-15.44	1.235	96.7	0.551	2.208	341.1	494.4	0.992	---	11.94	0.588	122.6	111.7	18.6	0.321
4-2550	4-2830	0.435	38.1	-51.0	-18.08	1.222	95.9	0.517	2.063	342.6	500.6	0.996	---	14.35	0.557	118.7	110.8	24.4	0.293
4-2550	4-2850	0.486	49.3	-56.0	-21.99	1.212	95.3	0.493	1.968	343.9	506.5	0.998	---	18.03	0.532	114.8	108.3	31.9	0.283
4-2550	4-2870	0.586	66.8	-58.9	-28.41	1.205	94.8	0.475	1.904	345.1	512.0	1.000	---	24.23	0.512	111.0	103.5	40.8	0.300
4-2550	4-2890	0.791	91.2	-57.1	-40.67	1.200	94.3	0.461	1.860	346.3	517.2	1.002	---	36.27	0.497	107.3	94.7	48.3	0.376

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2580	4-2800	0.314	6.8	-35.7	-8.26	1.254	88.8	0.598	2.525	3.2	125.9	---	---	2.85	0.636	126.7	116.9	4.1	0.355
4-2580	4-2820	0.301	4.7	-39.6	-8.56	1.235	88.1	0.549	2.251	5.4	132.9	---	---	3.03	0.594	122.7	117.3	5.0	0.305
4-2580	4-2840	0.294	3.2	-43.0	-8.90	1.221	87.5	0.515	2.087	7.3	139.6	---	---	3.24	0.560	118.7	117.1	6.1	0.264
4-2580	4-2860	0.291	2.3	-45.9	-9.29	1.210	87.1	0.490	1.983	8.9	145.8	---	---	3.52	0.534	114.8	116.3	7.4	0.230
4-2580	4-2880	0.291	2.1	-48.6	-9.75	1.203	86.8	0.472	1.915	9.9	151.6	---	---	3.87	0.514	111.0	114.9	9.2	0.203
4-2580	4-2900	0.295	2.9	-51.1	-10.32	1.197	86.7	0.459	1.869	10.6	158.9	---	---	4.33	0.498	107.3	112.7	11.4	0.181
4-2580	4-2920	0.301	4.7	-53.6	-11.03	1.194	86.6	0.450	1.837	10.9	161.8	---	---	4.94	0.487	103.8	109.9	14.2	0.166
4-2580	4-2940	0.311	7.9	-56.2	-11.98	1.191	86.7	0.444	1.817	10.9	166.3	---	---	5.76	0.479	100.4	106.5	17.8	0.155
4-2580	4-2960	0.329	12.9	-59.1	-13.33	1.189	86.8	0.440	1.803	10.6	170.6	---	---	7.03	0.473	97.3	102.8	22.4	0.151
4-2580	4-2980	0.358	21.0	-62.7	-15.42	1.188	87.0	0.437	1.796	10.0	174.5	---	---	9.03	0.470	94.3	98.9	28.4	0.154
4-2580	4-3000	0.416	36.1	-67.1	-19.17	1.188	87.2	0.435	1.792	9.2	178.1	---	---	12.68	0.469	91.4	95.5	36.6	0.173
4-2580	4-3020	0.560	70.8	-71.0	-27.87	1.188	87.5	0.435	1.792	8.2	181.6	---	2.571	21.28	0.469	88.8	93.1	47.0	0.233
4-2580	4-3040	1.146	136.8	-57.8	-62.88	1.188	87.6	0.435	1.794	7.9	185.0	---	2.576	56.19	0.471	86.2	95.8	49.3	0.515
4-2580	4-3060	0.633	274.2	64.6	32.18	1.189	88.8	0.435	1.798	3.9	187.7	---	2.582	-38.96	0.473	84.1	95.8	-51.8	0.377
4-2580	4-3080	0.289	327.6	41.7	10.77	1.189	89.2	0.437	1.804	2.7	190.7	---	2.593	-17.65	0.477	81.9	90.7	-42.5	0.212
4-2580	4-3100	0.221	344.9	19.2	4.25	1.190	89.7	0.439	1.811	1.1	193.5	---	2.606	-11.23	0.481	79.9	88.8	-31.9	0.175
4-2580	4-3120	0.208	355.0	5.1	1.16	1.191	90.3	0.441	1.819	359.2	556.2	1.016	2.622	-8.23	0.487	78.0	88.5	-24.4	0.165
4-2580	4-3140	0.210	2.5	-3.0	-0.66	1.192	90.9	0.444	1.828	357.1	558.7	1.016	2.639	-6.52	0.493	76.2	89.0	-19.2	0.165
4-2580	4-3160	0.215	8.7	-7.5	-1.86	1.193	91.6	0.448	1.837	354.8	561.2	1.015	2.659	-5.41	0.499	74.5	90.1	-15.7	0.168
4-2580	4-3180	0.222	14.3	-10.0	-2.73	1.195	92.4	0.451	1.846	352.4	563.5	1.013	2.680	-4.65	0.506	72.9	91.7	-13.1	0.173
4-2580	4-3200	0.231	19.3	-11.2	-3.40	1.196	93.2	0.455	1.857	349.9	565.8	1.011	2.702	-4.10	0.513	71.4	93.8	-11.1	0.180
4-2580	4-3220	0.240	24.1	-11.5	-3.93	1.197	94.0	0.460	1.867	347.2	568.0	1.008	2.726	-3.68	0.521	70.0	96.2	-9.6	0.187
4-2580	4-3240	0.250	28.6	-11.1	-4.37	1.198	95.0	0.465	1.878	344.4	570.1	1.004	2.751	-3.35	0.529	68.7	99.0	-8.5	0.196
4-2580	4-3260	0.262	32.8	-10.4	-4.75	1.200	95.9	0.471	1.888	341.4	572.1	0.999	2.778	-3.10	0.537	67.4	102.0	-7.5	0.205
4-2580	4-3280	0.275	36.9	-9.3	-5.08	1.201	97.0	0.478	1.900	338.2	574.0	0.992	2.807	-2.90	0.545	66.2	105.3	-6.8	0.215
4-2590	4-2710	0.561	12.5	-15.8	-7.04	1.524	90.2	1.361	-2.820	359.6	450.4	1.017	---	1.26	1.087	143.9	112.0	1.0	0.824
4-2590	4-2730	0.462	10.3	-20.2	-7.15	1.421	89.0	1.054	18.949	2.0	97.9	---	---	1.26	0.934	140.7	113.6	1.1	0.672
4-2590	4-2750	0.398	7.2	-24.7	-7.26	1.352	87.8	0.858	7.146	4.8	105.7	---	---	1.28	0.821	137.1	115.0	1.3	0.556
4-2590	4-2770	0.357	3.8	-29.1	-7.38	1.303	86.7	0.728	3.725	7.8	113.7	---	---	1.31	0.735	133.3	116.2	1.5	0.465
4-2590	4-2790	0.330	0.2	-33.0	-7.50	1.269	85.8	0.640	2.805	10.7	121.5	---	---	1.35	0.669	129.4	117.0	1.8	0.393
4-2590	4-2810	0.314	356.8	-36.3	-7.62	1.245	85.1	0.579	2.392	13.4	129.1	---	---	1.39	0.617	125.3	117.5	2.1	0.335
4-2590	4-2830	0.303	353.9	-39.0	-7.76	1.227	84.5	0.537	2.166	15.8	136.2	---	---	1.46	0.577	121.2	117.5	2.5	0.287
4-2590	4-2850	0.297	351.7	-41.1	-7.91	1.214	84.1	0.507	2.029	17.6	142.8	---	---	1.54	0.546	117.2	116.9	3.0	0.248
4-2590	4-2870	0.293	350.2	-42.9	-8.07	1.205	83.8	0.486	1.942	19.0	148.9	---	---	1.64	0.522	113.3	115.7	3.6	0.217
4-2590	4-2890	0.290	349.4	-44.4	-8.26	1.199	83.6	0.471	1.883	19.9	154.5	---	---	1.76	0.504	109.4	113.9	4.4	0.191
4-2590	4-2910	0.289	349.3	-45.7	-8.48	1.194	83.6	0.460	1.845	20.4	159.6	---	---	1.92	0.490	105.7	111.4	5.3	0.171
4-2590	4-2930	0.289	349.9	-46.8	-8.74	1.191	83.6	0.452	1.819	20.5	164.3	---	---	2.13	0.480	102.2	108.3	6.4	0.155
4-2590	4-2950	0.290	351.1	-48.0	-9.06	1.189	83.8	0.447	1.802	20.3	168.6	---	---	2.40	0.474	98.9	104.9	7.8	0.144
4-2590	4-2970	0.292	353.2	-49.2	-9.48	1.187	84.0	0.443	1.793	19.7	172.6	---	---	2.78	0.469	95.8	101.2	9.4	0.137
4-2590	4-2990	0.297	356.0	-50.9	-10.05	1.187	84.2	0.441	1.788	18.9	176.4	---	---	3.28	0.467	92.9	97.6	11.5	0.134
4-2590	4-3010	0.305	360.0	-53.0	-10.90	1.186	84.6	0.439	1.786	17.8	179.9	---	---	4.08	0.467	90.1	94.4	14.4	0.134
4-2590	4-3030	0.321	5.8	-56.1	-12.29	1.187	85.0	0.439	1.788	16.6	183.1	---	2.573	5.42	0.468	87.6	91.7	18.7	0.138
4-2590	4-3050	0.359	16.2	-61.4	-15.09	1.187	85.4	0.439	1.792	15.1	186.2	---	2.578	8.17	0.470	85.2	90.0	26.2	0.151
4-2590	4-3070	0.493	48.0	-71.0	-23.63	1.188	85.9	0.439	1.798	13.6	189.2	---	2.587	16.65	0.474	82.9	90.5	41.4	0.204
4-2590	4-3090	1.184	227.2	53.3	65.22	1.189	86.8	0.439	1.804	10.5	191.8	---	2.597	-72.25	0.478	81.0	104.3	-44.5	0.642
4-2590	4-3110	0.250	334.0	27.3	6.95	1.190	87.1	0.441	1.812	9.5	194.6	---	2.612	-14.03	0.483	79.0	90.2	-36.4	0.194
4-2590	4-3130	0.211	351.8	-1.8	0.29	1.191	87.7	0.443	1.821	7.5	197.2	---	2.628	-7.42	0.489	77.2	89.1	-22.0	0.165
4-2590	4-3150	0.214	0.7	-12.8	-2.14	1.192	88.4	0.445	1.831	5.3	199.7	---	2.646	-5.04	0.495	75.5	89.8	-15.0	0.163
4-2590	4-3170	0.220	7.3	-17.4	-3.41	1.193	89.1	0.448	1.841	2.9	202.1	---	2.665	-3.83	0.502	73.9	91.2	-11.2	0.166
4-2590	4-3190	0.225	13.0	-19.3	-4.19	1.195	89.9	0.451	1.851	0.5	204.5	---	2.685	-3.09	0.509	72.4	93.0	-8.8	0.172
4-2590	4-3210	0.231	18.2	-19.8	-4.74	1.196	90.7	0.454	1.862	357.9	566.7	1.018	2.707	-2.61	0.517	71.1	95.3	-7.1	0.179
4-2590	4-3230	0.237	23.1	-19.4	-5.14	1.197	91.5	0.458	1.873	355.1	568.9	1.015	2.730	-2.26	0.525	69.8	97.9	-6.0	0.186
4-2590	4-3250	0.244	27.9	-18.5	-5.45	1.199	92.5	0.462	1.884	352.2	570.9	1.014	2.754	-2.01	0.533	68.5	100.8	-5.1	0.194
4-2590	4-3270	0.251	32.5	-17.1	-5.71	1.200	93.4	0.467	1.895	349.2	573.0	1.011	2.780	-1.82	0.541	67.4	103.9	-4.5	0.203
4-2590	4-3290	0.260	37.0	-15.5	-5.92	1.201	94.5	0.472	1.907	346.0	574.9	1.007	2.806	-1.67	0.550	66.2	107.3	-4.0	0.212
4-2600	4-2720	0.539	7.0	-18.8	-7.12	1.490	85.0	1.254	-3.970	9.0	92.9	---	---	0.08	1.037	143.2	113.4	0.1	0.777
4-2600	4-2740	0.454	3.3	-23.0	-7.13	1.395	84.1	0.980	50.581	12.0	101.0	---	---	0.08	0.893	139.8	114.7	0.1	0.633
4-2600	4-2760	0.400	359.1	-27.0	-7.14	1.332	83.1	0.806	5.166	15.4	109.3	---	---	0.08	0.786	136.1	115.8	0.1	0.523
4-2600	4-2780	0.367	354.7	-30.4	-7.14	1.288	82.3	0.693	3.236	18.8	117.7	---	---	0.08	0.705	132.1	116.6	0.1	0.438
4-2600	4-2800	0.346	350.6	-33.1	-7.15	1.257	81.7	0.617	2.578	21.9	125.7	---	---	0.08	0.643	128.0	117.1	0.1	0.370
4-2600	4-2820	0.333	347.2	-35.2	-7.16	1.235	81.1	0.565	2.259	24.7	133.3	---	---	0.08	0.595	123.9	117.2	0.1	0.315
4-2600	4-2840	0.325	344.4	-36.7	-7.17	1.219	80.7	0.529	2.078	27.0	140.3	---	---	0.09	0.558	119.7	116.7	0.2	0.271
4-2600	4-2860	0.319	342.4	-37.8	-7.17	1.208	80.5	0.504	1.966	28.6	146.7	---	---	0.09	0.530	115.6	115.7	0.2	0.235
4-2600	4-2880	0.314	341.0	-38.6	-7.18	1.200	80.3	0.486	1.894	29.8	152.6	---	---	0.10	0.508	111.5	114.0	0.2	0.206
4-2600	4-2900	0.310	340.3	-39.1	-7.19	1.194	80.3	0.474	1.847	30.5	157.9	---	---	0.10	0.492	107.7	111.7	0.3	0.182
4-2600	4-2920	0.307	340.2	-39.5	-7.20	1.190	80.4	0.465	1.816	30.7	162.7	---	---	0.11	0.480	104.0	108.8	0.3	0.164
4-2600	4-2940	0.303	340.6	-39.8	-7.22	1.188	80.5	0.459	1.796	30.5	167.1	---	---	0.12	0.472	100.5	105.4	0.4	0.151
4-2600	4-2960	0.300	341.4	-39.9	-7.23	1.186	80.7	0.454	1.784	30.0	171.2	---	---	0.13	0.467	97.2	101.9	0.4	0.142
4-2600	4-2980	0.296	342.6	-40.0	-7.25	1.185	81.0	0.451	1.778	29.2	175.0	---	---	0.14	0.464	94.1	98.3	0.5	0.136
4-2600	4-3000	0.293	344.2	-40.0	-7.27	1.185	81.4	0.448	1.776	28.1	178.5	---	---	0.16	0.463	91.2	95.0	0.6	0.132
4-2600	4-3020	0.289	346.1	-40.0	-7.30	1.185	81.8	0.447	1.777	26.9	181.8	---	2.572	0.19	0.464	88.6	92.2	0.7	0.132
4-2600	4-3040	0.285	348.3	-39.9	-7.35	1.186	82.2	0.446	1.781	25.4	184.9	---	2.578	0.23	0.466	86.1	90.0	0.8	0.133
4-2600	4-3060	0.282	350.9	-39.8	-7.41	1.186	82.7	0.446	1.787	23.8	187.8	---	2.583	0.29	0.469	83.8	88.5	1.0	0.135
4-2600	4-3080	0.279	353.8	-39.8	-7.53	1.187	83.3	0.446	1.794	22.0	190.6	---	2.594	0.41	0.474	81.7	87.7	1.4	0.139
4-2600	4-3100	0.278	357.4	-40.2	-7.81	1.188	83.8	0.446	1.802	20.1	193.3	---	2.606	0.68	0.479	79.7	87.6	2.2	0.144
4-2600	4-3120	0.290	3.8	-44.4	-9.33	1.190	84.5	0.447	1.811	18.0	195.9	---	2.621	2.19	0.484	77.9	88.0	6.9	0.150
4-2600	4-3140	0.249	359.0	-29.5	-5.36	1.191	85.1	0.448	1.821	15.8	198.4	---	2.637	-1.77	0.491	76.2	88.9	-5.5	0.155
4-2600	4-3160	0.255	5.0	-33.0	-6.51	1.192	85.8	0.450	1.832	13.5	200.8	---	2.655	-0.63	0.497	74.6	90.3	-1.9	0.160
4-2600	4-3180	0.254	9.4	-32.8	-6.76	1.193	86.6	0.451	1.842	11.0	203.1	---	2.674	-0.38	0.505	73.1	92.1	-1.1	0.167
4-2600	4-3200	0.253	13.7	-31.8	-6.87	1.195	87.4	0.453	1.854	8.5	205.4	---	2.694	-0.28	0.512	71.8	94.2	-0.8	0.173

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2600	4-3220	0.252	18.0	-30.5	-6.93	1.196	88.2	0.456	1.865	5.8	207.6	---	2.715	-0.22	0.520	70.5	96.7	-0.6	0.180
4-2600	4-3240	0.252	22.4	-28.9	-6.97	1.198	89.1	0.458	1.877	3.0	209.7	---	2.737	-0.18	0.528	69.3	99.5	-0.5	0.188
4-2600	4-3260	0.253	26.9	-27.0	-7.00	1.199	90.0	0.462	1.889	0.1	211.8	---	2.760	-0.15	0.537	68.2	102.5	-0.4	0.196
4-2600	4-3280	0.255	31.5	-24.9	-7.02	1.200	91.0	0.465	1.901	357.0	573.8	1.016	2.785	-0.13	0.546	67.1	105.8	-0.3	0.204
4-2600	4-3300	0.259	36.1	-22.6	-7.04	1.202	92.0	0.469	1.913	353.8	575.7	1.015	2.810	-0.12	0.554	66.1	109.3	-0.3	0.213
4-2610	4-2730	0.543	0.2	-21.3	-7.30	1.454	79.4	1.145	-6.794	19.8	96.8	---	---	-1.13	0.983	142.7	114.1	-0.9	0.731
4-2610	4-2750	0.471	355.5	-24.9	-7.20	1.368	78.8	0.907	10.516	23.5	105.5	---	---	-1.11	0.848	139.1	115.1	-1.0	0.595
4-2610	4-2770	0.427	350.8	-27.8	-7.11	1.311	78.2	0.758	4.004	27.3	114.3	---	---	-1.10	0.747	135.1	115.8	-1.2	0.492
4-2610	4-2790	0.400	346.5	-30.1	-7.01	1.271	77.7	0.662	2.840	31.0	122.9	---	---	-1.10	0.672	131.0	116.3	-1.4	0.412
4-2610	4-2810	0.383	342.9	-31.6	-6.92	1.243	77.3	0.599	2.371	34.3	131.0	---	---	-1.11	0.614	126.7	116.3	-1.6	0.348
4-2610	4-2830	0.372	340.0	-32.7	-6.82	1.224	77.0	0.557	2.129	36.9	138.4	---	---	-1.12	0.570	122.3	115.8	-1.8	0.297
4-2610	4-2850	0.363	337.9	-33.4	-6.73	1.210	76.8	0.528	1.987	38.9	145.1	---	---	-1.15	0.536	118.0	114.8	-2.1	0.256
4-2610	4-2870	0.357	336.5	-33.7	-6.63	1.201	76.7	0.507	1.899	40.3	151.2	---	---	-1.18	0.511	113.8	113.2	-2.5	0.223
4-2610	4-2890	0.351	335.7	-33.9	-6.52	1.194	76.7	0.493	1.843	41.1	156.7	---	---	-1.22	0.492	109.7	111.0	-2.9	0.197
4-2610	4-2910	0.346	335.4	-33.8	-6.41	1.189	76.8	0.483	1.806	41.4	161.6	---	---	-1.27	0.478	105.7	108.2	-3.3	0.177
4-2610	4-2930	0.341	335.4	-33.7	-6.28	1.186	77.0	0.475	1.783	41.2	166.1	---	---	-1.34	0.469	102.0	104.9	-3.8	0.162
4-2610	4-2950	0.335	335.9	-33.4	-6.14	1.184	77.3	0.470	1.769	40.7	170.1	---	---	-1.42	0.462	98.5	101.5	-4.3	0.151
4-2610	4-2970	0.329	336.6	-32.9	-5.99	1.183	77.6	0.466	1.762	39.9	173.9	---	---	-1.53	0.459	95.3	98.0	-4.9	0.144
4-2610	4-2990	0.323	337.6	-32.3	-5.80	1.183	78.0	0.463	1.760	38.8	177.4	---	---	-1.66	0.458	92.2	94.7	-5.4	0.140
4-2610	4-3010	0.316	338.7	-31.5	-5.58	1.183	78.4	0.460	1.761	37.4	180.7	---	2.571	-1.83	0.468	89.4	91.9	-6.1	0.138
4-2610	4-3030	0.308	340.1	-30.5	-5.31	1.184	78.9	0.459	1.765	36.1	183.8	---	2.574	-2.06	0.460	86.8	89.7	-6.8	0.139
4-2610	4-3050	0.300	341.5	-29.0	-4.96	1.184	79.4	0.458	1.771	34.4	186.7	---	2.581	-2.36	0.483	84.4	88.2	-7.7	0.141
4-2610	4-3070	0.292	342.9	-27.0	-4.48	1.186	79.9	0.457	1.778	32.8	189.4	---	2.591	-2.80	0.467	82.2	87.3	-9.0	0.145
4-2610	4-3090	0.282	344.1	-24.0	-3.77	1.187	80.5	0.456	1.787	30.7	192.1	---	2.603	-3.46	0.473	80.2	87.1	-10.8	0.150
4-2610	4-3110	0.271	344.7	-18.9	-2.61	1.188	81.1	0.456	1.797	28.6	194.7	---	2.617	-4.57	0.478	78.3	87.6	-13.8	0.156
4-2610	4-3130	0.259	343.3	-8.6	-0.30	1.189	81.8	0.456	1.808	26.4	197.1	---	2.632	-6.83	0.485	76.6	88.8	-19.5	0.168
4-2610	4-3150	0.282	333.0	19.9	6.62	1.191	82.5	0.457	1.819	24.2	199.5	---	2.649	-13.71	0.492	75.0	92.0	-33.1	0.206
4-2610	4-3190	0.435	29.5	-62.4	-10.34	1.194	84.1	0.458	1.842	19.0	204.1	---	2.685	12.34	0.507	72.2	95.5	29.6	0.208
4-2610	4-3210	0.343	21.2	-50.4	-10.33	1.195	84.9	0.459	1.854	16.4	206.3	---	2.705	6.38	0.515	70.9	96.2	16.6	0.189
4-2610	4-3230	0.312	21.3	-44.2	-11.20	1.197	85.7	0.460	1.867	13.7	208.5	---	2.728	4.30	0.523	69.8	98.5	11.2	0.190
4-2610	4-3250	0.295	23.6	-39.9	-10.10	1.198	86.6	0.462	1.879	10.8	210.6	---	2.748	3.25	0.532	68.7	101.3	8.3	0.195
4-2610	4-3270	0.285	26.8	-36.4	-9.42	1.200	87.5	0.464	1.892	7.8	212.6	---	2.770	2.62	0.541	67.6	104.4	6.5	0.201
4-2610	4-3290	0.278	30.7	-33.3	-8.96	1.201	88.5	0.467	1.904	4.7	214.6	---	2.793	2.20	0.550	66.7	107.8	5.3	0.209
4-2610	4-3310	0.273	34.9	-30.2	-8.61	1.203	89.5	0.470	1.917	1.4	216.6	---	2.818	1.91	0.559	65.8	111.4	4.5	0.216
4-2620	4-2740	0.575	353.3	-22.8	-7.59	1.419	73.6	1.040	23.272	32.2	102.2	---	---	-2.39	0.927	142.5	114.0	-2.0	0.688
4-2620	4-2760	0.513	348.6	-25.3	-7.37	1.341	73.4	0.842	5.836	36.5	111.6	---	---	-2.33	0.800	138.6	114.6	-2.2	0.560
4-2620	4-2780	0.475	344.3	-27.2	-7.17	1.289	73.1	0.719	3.252	40.8	120.8	---	---	-2.29	0.706	134.4	115.0	-2.5	0.463
4-2620	4-2800	0.452	340.8	-28.4	-6.97	1.254	72.8	0.642	2.518	44.5	129.4	---	---	-2.26	0.636	129.9	114.9	-2.8	0.388
4-2620	4-2820	0.436	338.1	-29.2	-6.78	1.230	72.7	0.592	2.186	47.5	137.2	---	---	-2.25	0.582	125.4	114.4	-3.3	0.329
4-2620	4-2840	0.425	336.1	-29.6	-6.60	1.213	72.6	0.558	2.006	49.8	144.2	---	---	-2.26	0.542	120.8	113.3	-3.7	0.282
4-2620	4-2860	0.416	334.8	-29.7	-6.41	1.201	72.6	0.535	1.898	51.3	150.5	---	---	-2.28	0.512	116.3	111.7	-4.3	0.244
4-2620	4-2880	0.409	334.0	-29.6	-6.22	1.193	72.7	0.519	1.831	52.2	156.0	---	---	-2.32	0.490	111.8	109.5	-4.9	0.215
4-2620	4-2900	0.401	333.6	-29.4	-6.02	1.188	72.9	0.507	1.789	52.5	161.0	---	---	-2.37	0.474	107.6	106.7	-5.6	0.193
4-2620	4-2920	0.394	333.6	-29.1	-5.81	1.184	73.2	0.498	1.763	52.4	165.4	---	---	-2.45	0.483	103.6	103.6	-6.3	0.175
4-2620	4-2940	0.387	333.9	-28.6	-5.59	1.182	73.5	0.492	1.747	51.9	169.5	---	---	-2.54	0.455	99.8	100.2	-7.0	0.163
4-2620	4-2960	0.379	334.5	-28.0	-5.35	1.181	73.8	0.487	1.739	51.0	173.2	---	---	-2.66	0.451	96.3	96.8	-7.7	0.155
4-2620	4-2980	0.372	335.2	-27.2	-5.09	1.180	74.3	0.483	1.737	49.9	176.7	---	---	-2.81	0.450	93.1	93.7	-8.4	0.150
4-2620	4-3000	0.363	336.1	-26.3	-4.79	1.181	74.7	0.480	1.738	48.5	179.9	---	---	-3.00	0.450	90.1	91.0	-9.2	0.148
4-2620	4-3020	0.354	337.1	-25.2	-4.45	1.181	75.3	0.477	1.743	47.0	182.9	---	2.574	-3.23	0.462	87.4	88.9	-9.9	0.148
4-2620	4-3040	0.345	338.2	-23.7	-4.04	1.182	75.8	0.475	1.749	45.3	185.7	---	2.580	-3.54	0.455	84.9	87.4	-10.8	0.150
4-2620	4-3060	0.335	339.3	-21.9	-3.55	1.183	76.4	0.473	1.758	43.4	188.5	---	2.589	-3.93	0.459	82.6	86.5	-11.8	0.153
4-2620	4-3080	0.325	340.3	-19.6	-2.93	1.185	77.0	0.471	1.767	41.4	191.1	---	2.601	-4.45	0.465	80.4	86.3	-13.1	0.157
4-2620	4-3100	0.315	341.2	-16.3	-2.10	1.186	77.7	0.470	1.778	39.3	193.6	---	2.614	-5.18	0.471	78.5	86.7	-14.8	0.163
4-2620	4-3120	0.304	341.7	-11.6	-0.94	1.188	78.3	0.469	1.790	37.1	196.0	---	2.629	-6.25	0.477	76.7	87.6	-17.3	0.170
4-2620	4-3140	0.296	341.2	-4.3	0.85	1.189	79.1	0.469	1.802	34.9	198.4	---	2.648	-7.95	0.485	75.1	89.2	-21.0	0.181
4-2620	4-3160	0.297	338.2	8.3	4.04	1.191	79.8	0.468	1.814	32.5	200.7	---	2.664	-11.03	0.492	73.6	91.7	-27.0	0.199
4-2620	4-3180	0.350	326.8	31.0	11.32	1.192	80.5	0.468	1.827	30.1	202.9	---	2.682	-18.23	0.500	72.2	96.5	-37.4	0.245
4-2620	4-3200	0.805	272.5	51.2	41.17	1.194	81.1	0.469	1.840	28.2	205.2	---	2.703	-47.98	0.508	70.9	114.1	-48.4	0.478
4-2620	4-3220	0.866	104.9	-80.6	-45.02	1.196	82.6	0.466	1.853	23.5	207.2	---	2.718	38.30	0.517	70.0	112.9	48.1	0.405
4-2620	4-3240	0.496	36.1	-64.4	-22.78	1.197	83.3	0.468	1.867	21.2	209.3	---	2.739	16.16	0.526	68.9	103.8	33.5	0.247
4-2620	4-3260	0.397	29.6	-54.0	-16.57	1.199	84.2	0.469	1.880	18.4	211.4	---	2.761	10.05	0.535	67.9	104.5	23.0	0.222
4-2620	4-3280	0.352	29.4	-47.2	-13.71	1.200	85.1	0.470	1.893	15.4	213.4	---	2.783	7.29	0.544	67.0	107.0	16.9	0.218
4-2620	4-3300	0.325	31.3	-42.2	-12.04	1.202	86.1	0.471	1.907	12.2	215.4	---	2.805	5.73	0.553	66.1	110.2	13.2	0.220
4-2620	4-3320	0.308	34.3	-38.0	-10.94	1.204	87.1	0.473	1.920	8.9	217.3	---	2.829	4.74	0.562	65.3	113.8	10.8	0.225
4-2630	4-2750	0.633	347.8	-23.0	-8.00	1.383	67.4	0.949	17.002	46.4	109.5	---	---	-3.75	0.869	142.7	113.0	-3.0	0.650
4-2630	4-2770	0.577	343.7	-24.6	-7.65	1.313	67.6	0.791	4.046	51.3	119.3	---	---	-3.60	0.749	138.4	113.2	-3.4	0.529
4-2630	4-2790	0.542	340.4	-25.6	-7.33	1.267	67.6	0.695	2.734	55.5	128.5	---	---	-3.50	0.662	133.8	113.0	-3.8	0.438
4-2630	4-2810	0.519	337.8	-26.2	-7.03	1.236	67.7	0.635	2.257	58.9	136.7	---	---	-3.42	0.596	129.0	112.4	-4.3	0.368
4-2630	4-2830	0.503	336.0	-26.4	-6.74	1.215	67.8	0.596	2.023	61.4	144.0	---	---	-3.37	0.548	124.1	111.3	-4.9	0.313
4-2630	4-2850	0.490	334.9	-26.4	-6.46	1.201	68.0	0.570	1.891	63.1	150.3	---	---	-3.35	0.512	119.2	109.6	-5.5	0.271
4-2630	4-2870	0.479	334.2	-26.2	-6.19	1.192	68.2	0.552	1.812	64.0	155.9	---	---	-3.34	0.485	114.4	107.4	-6.2	0.237
4-2630	4-2890	0.470	333.9	-25.8	-5.92	1.185	68.5	0.539	1.763	64.2	160.8	---	---	-3.36	0.487	109.8	104.6	-7.0	0.212
4-2630	4-2910	0.460	333.9	-25.4	-5.64	1.181	68.9	0.529	1.734	64.0	165.3	---	---	-3.41	0.454	105.4	101.6	-7.8	0.193
4-2630	4-2930	0.451	334.2	-24.8	-5.36	1.179	69.3	0.521	1.717	63.4	169.2	---	---	-3.47	0.445	101.3	98.3	-8.5	0.179
4-2630	4-2950	0.442	334.7	-24.2	-5.06	1.177	69.8	0.515	1.709	62.4	172.8	---	---	-3.57	0.440	97.5	95.0	-9.2	0.169
4-2630	4-2970	0.433	335.3	-23.4	-4.75	1.177	70.3	0.510	1.706	61.2	176.2	---	---	-3.69	0.438	93.9	92.1	-9.9	0.163
4-2630	4-2990	0.423	336.1	-22.5	-4.41	1.177	70.8	0.505	1.709	59.8	179.3	---	---	-3.84	0.439	90.7	89.5	-10.6	0.160
4-2630	4-3010	0.413	336.9	-21.5	-4.04	1.178	71.4	0.501	1.714	58.1	182.2	---	2.573	-4.04	0.441	87.8	87.5	-11.2	0.160
4-2630	4-3030	0.402	337.8	-20.2	-3.63	1.179	72.0	0.498	1.722	56.3	185.0	---	2.579	-4.28	0.444	85.1	86.1	-11.9	0.161
4-2630	4-3050	0.392	338.8	-18.7	-3.16	1.181	72.6	0.495	1.731	54.4	187.6	---	2.588	-4.59	0.449	82.7	85.3	-12.6	0.163

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2660	4-2960	0.657	343.3	-14.4	-4.55	1.162	56.7	0.627	1.580	94.4	178.3	---	---	-6.00	0.382	92.8	84.0	-10.4	0.220
4-2660	4-2980	0.641	344.1	-13.5	-4.07	1.164	57.7	0.618	1.590	92.3	180.8	---	2.571	-5.97	0.386	88.8	82.5	-10.7	0.216
4-2660	4-3000	0.625	345.0	-12.6	-3.60	1.166	58.6	0.609	1.602	90.1	183.1	---	2.578	-5.98	0.392	85.2	81.5	-11.0	0.214
4-2660	4-3020	0.609	345.8	-11.7	-3.12	1.168	59.6	0.601	1.616	87.8	185.4	---	2.588	-6.02	0.399	82.0	81.0	-11.2	0.213
4-2660	4-3040	0.593	346.7	-10.6	-2.63	1.171	60.5	0.594	1.631	85.5	187.6	---	2.601	-6.10	0.407	79.2	81.1	-11.5	0.213
4-2660	4-3060	0.578	347.6	-9.4	-2.12	1.173	61.4	0.587	1.648	83.1	189.7	---	2.616	-6.23	0.416	76.8	81.6	-11.8	0.215
4-2660	4-3080	0.562	348.5	-8.1	-1.59	1.176	62.4	0.580	1.666	80.6	191.7	---	2.632	-6.40	0.426	74.7	82.5	-12.2	0.217
4-2660	4-3100	0.547	349.4	-6.7	-1.02	1.179	63.4	0.574	1.684	78.0	193.8	---	2.650	-6.63	0.436	72.8	83.8	-12.7	0.220
4-2660	4-3120	0.531	350.3	-5.1	-0.39	1.181	64.3	0.568	1.702	75.4	195.8	---	2.669	-6.92	0.446	71.2	85.5	-13.2	0.223
4-2660	4-3140	0.516	351.1	-3.2	0.30	1.184	65.3	0.562	1.721	72.7	197.8	---	2.688	-7.30	0.457	69.7	87.5	-13.9	0.226
4-2660	4-3160	0.501	351.8	-1.0	1.08	1.187	66.3	0.557	1.739	70.0	199.8	---	2.707	-7.77	0.467	68.4	89.8	-14.8	0.231
4-2660	4-3180	0.487	352.4	1.6	1.98	1.189	67.3	0.551	1.758	67.3	201.7	---	2.727	-8.38	0.478	67.3	92.3	-15.8	0.236
4-2660	4-3200	0.474	352.7	4.6	3.05	1.192	68.3	0.546	1.776	64.4	203.7	---	2.747	-9.16	0.489	66.3	95.2	-17.2	0.242
4-2660	4-3220	0.462	352.8	8.5	4.38	1.194	69.3	0.542	1.795	61.6	205.6	---	2.767	-10.20	0.500	65.4	98.3	-18.9	0.249
4-2660	4-3240	0.453	352.2	13.2	6.07	1.197	70.3	0.537	1.813	58.7	207.6	---	2.787	-11.61	0.510	64.6	101.8	-21.1	0.258
4-2660	4-3260	0.451	350.6	19.4	8.35	1.199	71.3	0.533	1.831	55.7	209.5	---	2.807	-13.61	0.521	63.9	105.7	-24.1	0.270
4-2660	4-3280	0.462	347.1	27.2	11.64	1.201	72.3	0.529	1.849	52.7	211.4	---	2.828	-16.63	0.532	63.3	110.3	-28.1	0.289
4-2660	4-3300	0.504	339.2	36.9	16.86	1.203	73.3	0.526	1.867	49.8	213.4	---	2.849	-21.57	0.543	62.7	116.1	-33.4	0.322
4-2660	4-3320	0.620	321.9	46.1	26.39	1.205	74.3	0.523	1.885	47.0	215.3	---	2.871	-30.83	0.554	62.2	124.9	-40.0	0.390
4-2660	4-3340	0.940	291.7	45.4	47.39	1.207	75.0	0.523	1.902	44.8	217.1	---	2.896	-51.55	0.584	61.6	140.7	-44.3	0.556
4-2670	4-2790	1.026	344.0	-17.2	-12.34	1.260	39.4	0.860	2.487	114.6	149.4	---	---	-11.51	0.634	149.4	100.7	-6.3	0.587
4-2670	4-2810	0.961	343.5	-16.8	-10.82	1.214	41.4	0.815	1.947	115.5	155.1	---	---	-10.30	0.534	142.8	99.0	-6.8	0.488
4-2670	4-2830	0.913	343.4	-16.3	-9.60	1.187	43.2	0.783	1.727	115.5	159.7	---	---	-9.39	0.464	135.7	96.9	-7.3	0.416
4-2670	4-2850	0.875	343.6	-15.7	-8.57	1.171	44.7	0.759	1.620	114.7	163.7	---	---	-8.69	0.416	128.1	94.4	-7.8	0.363
4-2670	4-2870	0.845	344.1	-15.1	-7.69	1.161	46.1	0.739	1.564	113.5	167.2	---	---	-8.14	0.385	120.5	91.8	-8.3	0.325
4-2670	4-2890	0.818	344.6	-14.4	-6.92	1.156	47.4	0.723	1.535	112.0	170.2	---	---	-7.70	0.365	113.1	89.2	-8.7	0.296
4-2670	4-2910	0.794	345.3	-13.6	-6.22	1.154	48.7	0.708	1.524	110.2	173.0	---	---	-7.36	0.355	106.1	86.6	-9.1	0.276
4-2670	4-2930	0.773	346.1	-12.9	-5.58	1.154	49.9	0.695	1.522	108.2	175.6	---	---	-7.09	0.352	99.9	84.4	-9.4	0.261
4-2670	4-2950	0.752	346.9	-12.1	-4.99	1.155	51.0	0.683	1.528	106.1	178.0	---	---	-6.88	0.353	94.3	82.6	-9.7	0.251
4-2670	4-2970	0.733	347.7	-11.3	-4.42	1.157	52.2	0.671	1.538	103.8	180.3	---	2.570	-6.73	0.358	89.4	81.2	-9.9	0.244
4-2670	4-2990	0.714	348.6	-10.4	-3.88	1.159	53.3	0.661	1.551	101.4	182.5	---	2.576	-6.62	0.365	85.2	80.3	-10.1	0.240
4-2670	4-3010	0.696	349.5	-9.5	-3.36	1.162	54.4	0.651	1.567	99.0	184.6	---	2.587	-6.56	0.374	81.6	79.9	-10.2	0.238
4-2670	4-3030	0.678	350.4	-8.5	-2.83	1.165	55.5	0.641	1.584	96.5	186.6	---	2.600	-6.54	0.384	78.5	80.0	-10.4	0.237
4-2670	4-3050	0.660	351.4	-7.4	-2.31	1.168	56.6	0.632	1.603	94.0	188.6	---	2.616	-6.56	0.394	75.8	80.5	-10.6	0.237
4-2670	4-3070	0.643	352.3	-6.3	-1.78	1.171	57.7	0.624	1.622	91.4	190.6	---	2.634	-6.63	0.405	73.5	81.5	-10.9	0.238
4-2670	4-3090	0.626	353.2	-5.1	-1.23	1.174	58.7	0.616	1.642	88.7	192.5	---	2.652	-6.74	0.417	71.5	82.8	-11.2	0.239
4-2670	4-3110	0.608	354.1	-3.8	-0.66	1.178	59.8	0.608	1.662	86.1	194.4	---	2.671	-6.90	0.428	69.8	84.4	-11.5	0.241
4-2670	4-3130	0.591	355.0	-2.3	-0.05	1.181	60.9	0.600	1.682	83.3	196.3	---	2.691	-7.11	0.440	68.3	86.4	-12.0	0.244
4-2670	4-3150	0.575	355.8	-0.6	0.60	1.184	61.9	0.593	1.702	80.6	198.2	---	2.712	-7.39	0.452	67.0	88.6	-12.5	0.247
4-2670	4-3170	0.558	356.6	1.3	1.33	1.187	63.0	0.586	1.723	77.7	200.1	---	2.732	-7.75	0.463	65.9	91.0	-13.2	0.250
4-2670	4-3190	0.542	357.2	3.4	2.14	1.189	64.1	0.579	1.743	74.9	202.0	---	2.752	-8.22	0.475	64.9	93.8	-14.0	0.254
4-2670	4-3210	0.527	357.8	5.9	3.07	1.192	65.2	0.573	1.763	72.0	203.9	---	2.773	-8.81	0.487	64.0	96.7	-15.0	0.258
4-2670	4-3230	0.512	358.1	8.9	4.16	1.195	66.3	0.567	1.783	69.0	205.8	---	2.793	-9.58	0.498	63.3	99.9	-16.3	0.264
4-2670	4-3250	0.500	358.1	12.5	5.50	1.197	67.3	0.561	1.802	66.0	207.7	---	2.814	-10.59	0.510	62.6	103.4	-17.9	0.270
4-2670	4-3270	0.491	357.6	17.0	7.18	1.200	68.4	0.555	1.822	63.0	209.6	---	2.834	-11.95	0.522	62.0	107.1	-20.0	0.278
4-2670	4-3290	0.487	356.1	22.6	9.41	1.202	69.5	0.550	1.841	59.9	211.5	---	2.855	-13.87	0.533	61.5	111.3	-22.8	0.290
4-2670	4-3310	0.496	352.8	29.7	12.55	1.205	70.6	0.546	1.860	56.8	213.4	---	2.875	-16.70	0.544	61.1	116.0	-26.4	0.307
4-2670	4-3330	0.531	345.7	38.1	17.37	1.207	71.7	0.541	1.879	53.7	215.3	---	2.896	-21.21	0.555	60.7	121.8	-31.4	0.337
4-2670	4-3350	0.627	330.6	46.4	25.72	1.209	72.8	0.538	1.898	50.7	217.2	---	2.918	-29.24	0.566	60.4	130.0	-37.6	0.394
4-2670	4-3370	0.878	303.7	47.4	42.80	1.211	73.6	0.536	1.916	48.1	219.0	---	2.942	-46.01	0.577	60.0	144.0	-43.1	0.526
4-2680	4-2800	1.145	346.3	-15.1	-15.08	1.238	31.6	0.897	2.167	130.1	157.8	---	---	-15.05	0.583	153.4	96.9	-6.4	0.604
4-2680	4-2820	1.072	346.4	-14.4	-12.75	1.196	34.2	0.863	1.775	129.4	161.7	---	---	-13.03	0.483	146.2	94.9	-6.9	0.507
4-2680	4-2840	1.018	346.8	-13.8	-10.97	1.172	36.4	0.835	1.609	128.1	165.1	---	---	-11.56	0.414	138.1	92.6	-7.3	0.437
4-2680	4-2860	0.976	347.4	-13.0	-9.55	1.158	38.3	0.813	1.529	126.4	168.1	---	---	-10.46	0.368	129.4	90.2	-7.7	0.386
4-2680	4-2880	0.940	348.1	-12.3	-8.37	1.150	40.1	0.793	1.490	124.5	170.7	---	---	-9.62	0.339	120.4	87.7	-8.0	0.349
4-2680	4-2900	0.909	348.9	-11.5	-7.37	1.147	41.8	0.776	1.473	122.4	173.2	---	---	-8.95	0.323	111.8	85.4	-8.3	0.322
4-2680	4-2920	0.882	349.7	-10.7	-6.50	1.146	43.3	0.760	1.469	120.1	175.5	---	---	-8.43	0.317	103.8	83.3	-8.6	0.303
4-2680	4-2940	0.857	350.6	-9.9	-5.72	1.147	44.7	0.745	1.473	117.7	177.7	---	---	-8.01	0.318	96.8	81.6	-8.8	0.289
4-2680	4-2960	0.834	351.6	-9.1	-5.02	1.149	46.1	0.731	1.484	115.3	179.7	---	---	-7.68	0.323	90.7	80.3	-8.9	0.279
4-2680	4-2980	0.812	352.5	-8.2	-4.36	1.152	47.5	0.718	1.498	112.7	181.7	---	2.574	-7.43	0.332	85.6	79.5	-9.0	0.272
4-2680	4-3000	0.790	353.5	-7.3	-3.75	1.155	48.8	0.706	1.515	110.1	183.7	---	2.584	-7.23	0.343	81.3	79.2	-9.2	0.268
4-2680	4-3020	0.770	354.5	-6.4	-3.16	1.158	50.0	0.695	1.533	107.5	185.6	---	2.598	-7.08	0.355	77.6	79.3	-9.3	0.265
4-2680	4-3040	0.750	355.4	-5.4	-2.59	1.162	51.3	0.684	1.553	104.9	187.5	---	2.615	-6.99	0.367	74.6	79.8	-9.4	0.263
4-2680	4-3060	0.730	356.4	-4.4	-2.04	1.166	52.5	0.673	1.574	102.1	189.3	---	2.633	-6.94	0.380	72.1	80.7	-9.6	0.263
4-2680	4-3080	0.710	357.3	-3.3	-1.48	1.169	53.7	0.663	1.595	99.4	191.1	---	2.653	-6.93	0.394	69.9	82.0	-9.8	0.263
4-2680	4-3100	0.691	358.3	-2.1	-0.92	1.173	54.9	0.653	1.617	96.6	192.9	---	2.673	-6.97	0.407	68.1	83.6	-10.0	0.264
4-2680	4-3120	0.672	359.2	-0.9	-0.35	1.176	56.1	0.644	1.639	93.8	194.8	---	2.694	-7.06	0.420	66.5	85.5	-10.3	0.265
4-2680	4-3140	0.654	0.1	0.5	0.25	1.180	57.3	0.635	1.661	91.0	196.6	---	2.715	-7.20	0.433	65.2	87.6	-10.7	0.266
4-2680	4-3160	0.635	1.0	2.0	0.88	1.183	58.5	0.626	1.683	88.1	198.4	---	2.737	-7.39	0.446	64.0	90.0	-11.1	0.268
4-2680	4-3180	0.617	1.8	3.6	1.56	1.186	59.7	0.618	1.705	85.2	200.2	---	2.758	-7.65	0.459	63.1	92.7	-11.6	0.271
4-2680	4-3200	0.599	2.6	5.5	2.30	1.189	60.8	0.610	1.727	82.3	202.1	---	2.779	-7.99	0.472	62.2	95.5	-12.3	0.274
4-2680	4-3220	0.582	3.3	7.6	3.12	1.192	62.0	0.602	1.748	79.3	203.9	---	2.800	-8.43	0.485	61.5	98.5	-13.0	0.277
4-2680	4-3240	0.565	3.8	10.0	4.06	1.195	63.2	0.594	1.770	76.3	205.8	---	2.821	-8.99	0.497	60.9	101.8	-14.0	0.281
4-2680	4-3260	0.550	4.2	12.9	5.15	1.198	64.3	0.587	1.791	73.2	207.6	---	2.842	-9.73	0.509	60.4	105.3	-15.2	0.285
4-2680	4-3280	0.536	4.2	16.3	6.47	1.201	65.5	0.580	1.811	70.1	209.5	---	2.862	-10.69	0.521	60.0	109.0	-16.7	0.291
4-2680	4-3300	0.526	3.7	20.5	8.12	1.203	66.7	0.574	1.832	66.9	211.4	---	2.883	-11.99	0.533	59.7	113.0	-18.7	0.299
4-2680	4-3320	0.521	2.4	25.6	10.27	1.206	67.9	0.567	1.852	63.7	213.3	---	2.903	-13.79	0.545	59.4	117.3	-21.2	0.309
4-2680	4-3340	0.527	359.4	32.0	13.24	1.208	69.1	0.562	1.872	60.4	215.1	---	2.924	-16.43	0.557	59.1	122.1	-24.6	0.325
4-2680	4-3360	0.556	353.0	39.7	17.70	1.210	70.3	0.556	1.892	57.1	217.0	---	2.944	-20.54	0.568	58.9	127.9	-29.1	0.350
4-2680	4-3380	0.635	339.6	47.4	25.14	1.213	71.4	0.552	1.911	54.0	218.9	---	2.966	-27.65	0.579	58.7	135.6	-35.1	0.399

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2920	4-3140	0.811	57.2	19.6	-0.34	1.282	128.6	0.811	3.009	271.2	497.0	0.568	---	-6.89	0.676	143.7	193.0	-4.5	0.614
4-2920	4-3160	0.747	57.2	18.6	-1.07	1.244	126.2	0.747	2.341	271.6	502.1	0.591	---	-6.40	0.605	138.2	194.5	-4.9	0.530
4-2920	4-3180	0.696	57.2	17.5	-1.72	1.217	124.2	0.697	2.018	272.0	507.3	0.611	---	-6.01	0.549	132.3	195.4	-5.3	0.460
4-2920	4-3200	0.658	57.3	16.4	-2.30	1.196	122.6	0.658	1.833	272.3	512.4	0.627	---	-5.70	0.506	126.2	195.8	-5.8	0.401
4-2920	4-3220	0.628	57.4	15.4	-2.83	1.181	121.4	0.628	1.718	272.6	517.5	0.639	---	-5.45	0.474	119.8	195.4	-6.4	0.352
4-2920	4-3240	0.607	57.6	14.4	-3.33	1.169	120.5	0.605	1.643	272.7	522.5	0.648	---	-5.26	0.451	113.3	194.2	-7.0	0.311
4-2920	4-3260	0.593	57.9	13.5	-3.81	1.161	119.8	0.589	1.592	272.6	527.4	0.654	---	-5.12	0.435	106.8	191.9	-7.7	0.278
4-2920	4-3280	0.585	58.3	12.7	-4.27	1.155	119.5	0.579	1.557	272.2	532.2	0.656	---	-5.02	0.426	100.5	188.6	-8.3	0.253
4-2920	4-3300	0.583	58.8	12.0	-4.72	1.151	119.4	0.574	1.534	271.6	536.7	0.654	---	-4.96	0.422	94.4	184.3	-8.9	0.236
4-2920	4-3320	0.586	59.5	11.5	-5.17	1.148	119.7	0.574	1.519	270.7	541.0	0.648	2.390	-4.94	0.423	88.7	179.5	-9.2	0.228
4-2920	4-3340	0.595	60.3	11.0	-5.64	1.146	120.2	0.578	1.510	269.4	545.0	0.638	2.382	-4.96	0.426	83.3	174.7	-9.3	0.227
4-2920	4-3360	0.609	61.3	10.8	-6.11	1.145	121.0	0.586	1.505	267.7	548.7	0.623	2.388	-5.03	0.432	78.1	170.5	-9.1	0.235
4-2920	4-3380	0.629	62.5	10.6	-6.62	1.145	122.1	0.599	1.505	265.5	552.0	0.604	2.406	-5.15	0.440	73.3	167.4	-8.7	0.250
4-2920	4-3400	0.656	63.9	10.6	-7.16	1.145	123.5	0.616	1.507	262.9	554.9	0.579	2.435	-5.33	0.450	68.6	165.7	-8.3	0.271
4-2920	4-3420	0.688	65.5	10.8	-7.76	1.146	125.3	0.638	1.512	259.7	557.4	0.548	2.476	-5.58	0.460	64.0	165.4	-7.8	0.298
4-2920	4-3440	0.728	67.3	11.1	-8.43	1.148	127.5	0.664	1.518	255.9	559.4	0.510	2.527	-5.93	0.471	59.4	166.3	-7.3	0.331
4-2920	4-3460	0.777	69.5	11.6	-9.22	1.149	130.3	0.696	1.527	251.4	560.8	0.465	2.589	-6.39	0.482	54.8	168.4	-6.8	0.369
4-2920	4-3480	0.834	71.9	12.2	-10.16	1.151	133.5	0.732	1.537	246.2	561.5	0.412	2.662	-7.03	0.494	49.9	171.6	-6.4	0.413
4-2920	4-3500	0.903	74.7	12.9	-11.35	1.153	137.5	0.773	1.549	240.2	561.5	0.351	2.747	-7.92	0.506	44.7	175.7	-6.1	0.463
4-2920	4-3520	0.983	77.9	13.7	-12.93	1.156	142.1	0.819	1.563	233.2	560.6	0.284	2.842	-9.21	0.517	39.1	180.8	-5.7	0.521
4-2920	4-3540	1.076	81.6	14.5	-15.17	1.159	147.6	0.866	1.579	225.2	558.8	0.211	2.948	-11.16	0.528	32.8	186.8	-5.4	0.586
4-2930	4-3150	0.776	64.8	20.3	-0.86	1.286	126.5	0.806	3.139	275.9	494.5	0.608	---	-6.44	0.688	142.9	196.7	-4.3	0.615
4-2930	4-3170	0.711	64.7	19.0	-1.63	1.248	124.1	0.738	2.413	276.4	499.7	0.632	---	-5.86	0.617	137.5	198.3	-4.6	0.531
4-2930	4-3190	0.661	64.7	17.8	-2.29	1.220	122.1	0.685	2.068	276.9	505.0	0.652	---	-5.40	0.562	131.8	199.5	-4.9	0.461
4-2930	4-3210	0.621	64.7	16.6	-2.86	1.199	120.5	0.643	1.872	277.4	510.3	0.668	---	-5.03	0.520	125.8	200.1	-5.3	0.401
4-2930	4-3230	0.591	64.7	15.4	-3.37	1.184	119.2	0.611	1.750	277.7	515.6	0.681	---	-4.74	0.488	119.6	200.1	-5.7	0.351
4-2930	4-3250	0.569	64.8	14.4	-3.83	1.172	118.2	0.586	1.670	278.0	520.7	0.691	---	-4.51	0.465	113.4	199.2	-6.2	0.309
4-2930	4-3270	0.554	65.0	13.4	-4.26	1.163	117.5	0.568	1.616	278.0	525.8	0.698	---	-4.34	0.450	107.3	197.3	-6.8	0.275
4-2930	4-3290	0.545	65.3	12.5	-4.66	1.157	117.1	0.556	1.579	277.8	530.7	0.701	---	-4.20	0.440	101.3	194.3	-7.3	0.248
4-2930	4-3310	0.541	65.8	11.8	-5.05	1.153	117.0	0.549	1.554	277.3	535.4	0.700	---	-4.10	0.436	95.5	190.3	-7.8	0.229
4-2930	4-3330	0.543	66.3	11.2	-5.43	1.150	117.1	0.547	1.538	276.5	539.9	0.696	---	-4.04	0.436	90.1	185.6	-8.1	0.218
4-2930	4-3350	0.549	67.1	10.8	-5.81	1.148	117.5	0.549	1.528	275.4	544.1	0.688	2.367	-4.01	0.439	85.0	180.7	-8.2	0.215
4-2930	4-3370	0.561	68.0	10.5	-6.19	1.147	118.1	0.556	1.522	273.9	548.0	0.676	2.369	-4.02	0.445	80.2	176.2	-8.0	0.220
4-2930	4-3390	0.577	69.0	10.4	-6.59	1.147	119.1	0.566	1.521	271.9	551.6	0.660	2.382	-4.07	0.452	75.6	172.6	-7.7	0.231
4-2930	4-3410	0.600	70.3	10.5	-7.00	1.147	120.3	0.581	1.522	269.5	554.8	0.638	2.407	-4.16	0.461	71.3	170.4	-7.3	0.249
4-2930	4-3430	0.628	71.8	10.7	-7.45	1.148	121.8	0.600	1.526	266.5	557.6	0.611	2.441	-4.30	0.471	67.0	169.5	-6.8	0.273
4-2930	4-3450	0.662	73.5	11.0	-7.94	1.149	123.8	0.623	1.532	263.0	560.0	0.578	2.487	-4.50	0.481	62.8	170.0	-6.4	0.302
4-2930	4-3470	0.704	75.5	11.5	-8.50	1.150	126.2	0.651	1.540	258.9	561.8	0.537	2.543	-4.78	0.492	58.6	171.7	-6.0	0.336
4-2930	4-3490	0.755	77.8	12.1	-9.14	1.152	129.0	0.684	1.549	254.1	562.9	0.489	2.610	-5.16	0.502	54.2	174.4	-5.6	0.376
4-2930	4-3510	0.815	80.5	12.8	-9.92	1.154	132.5	0.723	1.560	248.5	563.4	0.433	2.688	-5.68	0.513	49.5	178.1	-5.3	0.421
4-2930	4-3530	0.886	83.5	13.5	10.89	1.156	136.6	0.766	1.573	242.0	563.2	0.368	2.778	-6.40	0.524	44.4	182.7	-5.0	0.473
4-2930	4-3550	0.969	86.9	14.4	-12.19	1.159	141.5	0.814	1.587	234.6	562.0	0.295	2.879	-7.46	0.534	38.9	188.2	-4.7	0.532
4-2930	4-3570	1.065	90.8	15.2	-14.05	1.161	147.2	0.864	1.603	226.1	559.8	0.218	2.988	-9.07	0.544	32.6	194.6	-4.4	0.599
4-2940	4-3160	0.740	72.3	20.1	-1.59	1.289	124.4	0.801	3.252	280.7	492.1	0.648	---	-5.73	0.697	142.1	200.3	-4.0	0.614
4-2940	4-3180	0.675	72.2	18.6	-2.40	1.251	122.0	0.729	2.476	281.3	497.5	0.672	---	-5.06	0.627	136.8	202.0	-4.1	0.530
4-2940	4-3200	0.625	72.0	17.2	-3.04	1.223	120.0	0.672	2.111	282.0	502.9	0.692	---	-4.55	0.573	131.2	203.4	-4.3	0.459
4-2940	4-3220	0.586	71.9	15.9	-3.58	1.202	118.4	0.628	1.906	282.5	508.3	0.709	---	-4.16	0.531	125.3	204.2	-4.5	0.400
4-2940	4-3240	0.555	71.8	14.6	-4.04	1.186	117.0	0.594	1.778	283.0	513.7	0.722	---	-3.85	0.500	119.4	204.4	-4.8	0.349
4-2940	4-3260	0.533	71.8	13.5	-4.45	1.175	116.0	0.568	1.695	283.3	519.1	0.733	---	-3.61	0.477	113.4	203.8	-5.2	0.307
4-2940	4-3280	0.517	71.9	12.5	-4.82	1.166	115.3	0.549	1.639	283.5	524.3	0.740	---	-3.41	0.462	107.5	202.2	-5.5	0.272
4-2940	4-3300	0.507	72.2	11.6	-5.15	1.160	114.8	0.535	1.600	283.4	529.4	0.744	---	-3.28	0.453	101.7	199.6	-5.9	0.244
4-2940	4-3320	0.502	72.5	10.9	-5.47	1.155	114.6	0.527	1.574	283.1	534.3	0.744	---	-3.15	0.449	96.3	195.8	-6.3	0.223
4-2940	4-3340	0.502	73.0	10.3	-5.77	1.152	114.7	0.523	1.556	282.4	539.0	0.742	---	-3.06	0.449	91.1	191.3	-6.5	0.210
4-2940	4-3360	0.506	73.6	10.0	-6.06	1.150	114.9	0.524	1.545	281.4	543.4	0.736	2.354	-3.01	0.451	86.3	186.3	-6.6	0.205
4-2940	4-3380	0.516	74.4	9.7	-6.35	1.149	115.5	0.529	1.539	280.0	547.5	0.726	2.352	-2.98	0.457	81.8	181.6	-6.5	0.207
4-2940	4-3400	0.530	75.4	9.7	-6.64	1.148	116.3	0.537	1.537	278.2	551.3	0.711	2.362	-2.98	0.464	77.5	177.7	-6.3	0.216
4-2940	4-3420	0.549	76.6	9.8	-6.94	1.149	117.3	0.549	1.537	276.0	554.7	0.693	2.382	-3.01	0.472	73.4	175.0	-5.9	0.232
4-2940	4-3440	0.573	78.1	10.1	-7.25	1.149	118.7	0.566	1.541	273.2	557.7	0.669	2.412	-3.08	0.481	69.5	173.7	-5.5	0.252
4-2940	4-3460	0.603	79.7	10.5	-7.59	1.150	120.4	0.586	1.546	269.9	560.3	0.640	2.452	-3.18	0.491	65.7	173.8	-5.1	0.278
4-2940	4-3480	0.639	81.6	11.1	-7.96	1.151	122.5	0.611	1.553	266.1	562.5	0.604	2.502	-3.33	0.501	61.8	175.0	-4.7	0.309
4-2940	4-3500	0.683	83.8	11.7	-8.38	1.153	125.0	0.641	1.562	261.6	564.0	0.561	2.563	-3.53	0.511	57.8	177.4	-4.4	0.345
4-2940	4-3520	0.736	86.3	12.4	-8.86	1.155	128.0	0.676	1.572	256.4	565.0	0.509	2.635	-3.81	0.521	53.6	180.7	-4.1	0.386
4-2940	4-3540	0.799	89.1	13.2	-9.45	1.157	131.6	0.716	1.584	250.4	565.2	0.449	2.718	-4.20	0.530	49.1	185.0	-3.9	0.432
4-2940	4-3560	0.873	92.4	14.0	-10.18	1.159	135.9	0.762	1.597	243.5	564.6	0.380	2.814	-4.75	0.540	44.1	190.0	-3.7	0.485
4-2940	4-3580	0.959	96.1	14.8	-11.17	1.162	141.0	0.812	1.612	235.6	563.1	0.304	2.920	-5.55	0.549	38.5	195.9	-3.5	0.545
4-2940	4-3600	1.058	100.2	15.6	-12.57	1.164	147.0	0.864	1.628	226.7	560.6	0.222	3.034	-6.78	0.558	32.2	202.6	-3.3	0.613
4-2950	4-3170	0.702	79.6	18.8	-2.73	1.292	122.2	0.794	3.340	285.7	489.9	0.688	---	-4.55	0.704	141.1	203.8	-3.3	0.610
4-2950	4-3190	0.639	79.4	17.1	-3.52	1.254	119.8	0.718	2.527	286.4	495.4	0.711	---	-3.85	0.635	135.9	205.7	-3.2	0.527
4-2950	4-3210	0.589	79.2	15.5	-4.10	1.226	117.8	0.660	2.147	287.1	500.9	0.731	---	-3.35	0.582	130.4	207.1	-3.3	0.456
4-2950	4-3230	0.550	78.9	14.0	-4.56	1.205	116.2	0.613	1.935	287.8	506.5	0.748	---	-2.98	0.541	124.7	208.1	-3.3	0.397
4-2950	4-3250	0.520	78.8	12.7	-4.93	1.189	114.9	0.578	1.803	288.4	512.1	0.762	---	-2.70	0.510	118.9	208.5	-3.5	0.346
4-2950	4-3270	0.498	78.6	11.6	-5.25	1.177	113.9	0.550	1.717	288.9	517.6	0.772	---	-2.48	0.488	113.1	208.0	-3.7	0.304
4-2950	4-3290	0.481	78.6	10.6	-5.52	1.168	113.1	0.530	1.659	289.1	523.0	0.780	---	-2.31	0.473	107.4	206.7	-3.9	0.268
4-2950	4-3310	0.471	78.7	9.8	-5.77	1.162	112.6	0.515	1.618	289.2	528.3	0.784	---	-2.17	0.464	102.0	204.4	-4.1	0.239
4-2950	4-3330	0.465	78.9	9.1	-5.99	1.157	112.3	0.506	1.591	289.0	533.3	0.786	---	-2.07	0.460	96.8	200.9	-4.3	0.218
4-2950	4-3350	0.464	79.3	8.6	-6.20	1.154	112.3	0.501	1.573	288.4	538.1	0.784	---	-1.99	0.460	91.9	196.5	-4.5	0.203
4-2950	4-3370	0.467	79.9	8.4	-6.39	1.152	112.5	0.501	1.561	287.5	542.7	0.779	2.343	-1.93	0.463	87.3	191.5	-4.5	0.196
4-2950	4-3390	0.474	80.7	8.3	-6.58	1.151	113.0	0.504	1.554	286.3	547.0	0.771	2.337	-1.89	0.468	83.0	186.7	-4.5	0.196
4-2950	4-3410	0.486	81.6	8.4	-6.77	1.150	113.7	0.511	1.552	284.6	550.9	0.759	2.344	-1.87	0.474	79.0	182.5	-4.3	0.204
4-2950	4-3430	0.502	82.8	8.6	-6.95	1.150	114.6	0.521	1.552	282.4	554.6	0.743	2.361	-1.87	0.482	75.2	179.5	-4.0	0.217

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

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ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2950	4-3450	0.523	84.1	9.0	-7.15	1.151	115.8	0.535	1.555	279.8	557.8	0.722	2.387	-1.88	0.491	71.5	177.9	-3.7	0.235
4-2950	4-3470	0.549	85.8	9.6	-7.35	1.152	117.3	0.553	1.560	276.7	560.6	0.697	2.423	-1.92	0.500	68.0	177.6	-3.4	0.259
4-2950	4-3490	0.581	87.6	10.2	-7.56	1.153	119.1	0.576	1.566	273.1	563.0	0.665	2.468	-1.98	0.509	64.4	178.5	-3.2	0.286
4-2950	4-3510	0.619	89.7	11.0	-7.80	1.155	121.4	0.602	1.575	268.8	564.9	0.626	2.523	-2.08	0.519	60.8	180.6	-3.0	0.319
4-2950	4-3530	0.666	92.2	11.8	-8.06	1.156	124.0	0.634	1.584	263.9	566.2	0.580	2.588	-2.21	0.528	57.0	183.6	-2.7	0.355
4-2950	4-3550	0.721	94.9	12.6	-8.37	1.158	127.2	0.670	1.595	258.3	566.9	0.526	2.665	-2.38	0.537	53.0	187.5	-2.6	0.397
4-2950	4-3570	0.786	98.0	13.5	-8.74	1.160	131.0	0.713	1.608	251.9	566.8	0.462	2.753	-2.63	0.546	48.6	192.2	-2.4	0.445
4-2950	4-3590	0.862	101.5	14.3	-9.21	1.162	135.5	0.760	1.621	244.6	565.9	0.389	2.854	-2.98	0.554	43.6	197.7	-2.3	0.499
4-2950	4-3610	0.952	105.4	15.1	-9.84	1.165	140.8	0.812	1.637	236.3	564.0	0.308	2.965	-3.49	0.562	38.1	203.9	-2.2	0.560
4-2950	4-3630	1.055	109.8	15.7	-10.75	1.168	147.1	0.865	1.654	226.9	561.1	0.223	3.085	-4.29	0.569	31.7	211.0	-2.0	0.628
4-2960	4-3180	0.666	86.8	15.3	-4.81	1.293	119.9	0.786	3.397	290.7	487.8	0.728	---	-2.39	0.709	140.1	207.2	-1.8	0.604
4-2960	4-3200	0.604	86.4	13.5	-5.35	1.256	117.6	0.707	2.562	291.6	493.5	0.750	---	-1.88	0.642	135.0	209.1	-1.6	0.521
4-2960	4-3220	0.556	86.1	12.0	-5.71	1.228	115.6	0.646	2.175	292.4	499.2	0.770	---	-1.56	0.589	129.6	210.7	-1.6	0.452
4-2960	4-3240	0.517	85.7	10.6	-5.96	1.207	114.0	0.598	1.957	293.2	504.9	0.786	---	-1.33	0.549	124.0	211.8	-1.5	0.393
4-2960	4-3260	0.488	85.3	9.4	-6.16	1.191	112.7	0.561	1.823	294.0	510.7	0.800	---	-1.17	0.519	118.3	212.2	-1.6	0.342
4-2960	4-3280	0.465	85.1	8.3	-6.31	1.179	111.7	0.533	1.735	294.5	516.4	0.810	---	-1.05	0.498	112.7	212.0	-1.6	0.300
4-2960	4-3300	0.448	84.9	7.5	-6.44	1.171	110.9	0.512	1.676	295.0	521.9	0.818	---	-0.96	0.483	107.2	210.9	-1.7	0.264
4-2960	4-3320	0.437	84.9	6.8	-6.55	1.164	110.4	0.497	1.635	295.1	527.3	0.822	---	0.89	0.475	102.8	208.7	-1.8	0.235
4-2960	4-3340	0.430	85.0	6.3	-6.65	1.160	110.1	0.487	1.607	295.0	532.5	0.824	---	-0.83	0.471	97.0	205.4	-1.8	0.213
4-2960	4-3360	0.428	85.3	6.0	-6.74	1.156	110.0	0.481	1.588	294.5	537.5	0.824	---	-0.79	0.470	92.3	201.1	-1.9	0.197
4-2960	4-3380	0.430	85.8	6.0	-6.82	1.154	110.2	0.480	1.576	293.7	542.2	0.820	2.332	-0.75	0.473	88.0	196.2	-1.9	0.189
4-2960	4-3400	0.436	86.5	6.1	-6.90	1.153	110.6	0.482	1.569	292.6	546.6	0.813	2.324	-0.73	0.478	83.9	191.3	-1.8	0.188
4-2960	4-3420	0.445	87.4	6.4	-6.97	1.153	111.2	0.487	1.566	290.9	550.7	0.803	2.329	-0.71	0.484	80.1	186.9	-1.8	0.193
4-2960	4-3440	0.459	88.6	6.9	-7.04	1.153	112.0	0.496	1.566	288.9	554.5	0.789	2.343	-0.70	0.492	76.6	183.7	-1.6	0.205
4-2960	4-3460	0.477	90.0	7.5	-7.12	1.153	113.1	0.509	1.568	286.4	557.9	0.771	2.366	-0.70	0.500	73.2	181.8	-1.5	0.221
4-2960	4-3480	0.500	91.6	8.2	-7.19	1.154	114.5	0.524	1.573	283.4	560.9	0.748	2.398	-0.71	0.509	69.9	181.3	-1.4	0.242
4-2960	4-3500	0.528	93.4	9.0	-7.27	1.155	116.1	0.544	1.579	279.9	563.5	0.720	2.439	-0.72	0.518	66.6	182.0	-1.3	0.268
4-2960	4-3520	0.562	95.6	9.9	-7.35	1.156	118.1	0.568	1.587	275.9	565.6	0.686	2.489	-0.74	0.526	63.3	183.8	-1.2	0.297
4-2960	4-3540	0.602	97.9	10.8	-7.44	1.158	120.5	0.596	1.597	271.2	567.2	0.645	2.548	-0.78	0.535	59.9	186.6	-1.1	0.330
4-2960	4-3560	0.651	100.6	11.8	-7.54	1.160	123.3	0.629	1.607	265.9	568.2	0.596	2.618	-0.83	0.543	56.3	190.2	-1.0	0.368
4-2960	4-3580	0.708	103.6	12.7	-7.66	1.162	126.7	0.667	1.619	259.9	568.6	0.538	2.700	-0.90	0.551	52.4	194.6	-1.0	0.411
4-2960	4-3600	0.776	107.0	13.6	-7.80	1.164	130.6	0.711	1.632	253.1	568.2	0.471	2.793	-0.99	0.559	48.0	199.8	-0.9	0.460
4-2960	4-3620	0.855	110.8	14.3	-7.98	1.166	135.3	0.760	1.647	245.4	566.9	0.395	2.898	-1.13	0.566	43.1	205.7	-0.8	0.514
4-2960	4-3640	0.948	114.9	15.0	-8.22	1.169	140.8	0.813	1.662	236.7	564.8	0.310	3.014	-1.32	0.572	37.5	212.2	-0.8	0.576
4-2960	4-3660	1.053	119.5	15.4	-8.57	1.171	147.3	0.868	1.680	227.0	561.5	0.222	3.138	-1.63	0.578	31.2	219.5	-0.8	0.644
4-2970	4-3190	0.644	94.1	5.7	-9.84	1.294	117.5	0.776	3.418	296.0	486.0	0.767	---	2.77	0.712	139.1	210.5	2.2	0.597
4-2970	4-3210	0.580	93.3	5.7	-8.93	1.257	115.2	0.694	2.581	296.9	491.8	0.789	---	1.87	0.646	133.9	212.4	1.7	0.515
4-2970	4-3230	0.529	92.7	5.2	-8.45	1.229	113.3	0.632	2.192	297.9	497.7	0.807	---	1.42	0.594	128.6	214.0	1.5	0.446
4-2970	4-3250	0.490	92.0	4.5	-8.16	1.209	111.7	0.583	1.973	298.9	503.6	0.823	---	1.15	0.555	123.1	215.2	1.4	0.387
4-2970	4-3270	0.460	91.5	3.8	-7.96	1.193	110.4	0.545	1.838	299.7	509.5	0.836	---	0.97	0.526	117.6	215.7	1.3	0.337
4-2970	4-3290	0.437	91.0	3.2	-7.80	1.181	109.4	0.517	1.750	300.4	515.4	0.846	---	0.84	0.506	112.1	215.6	1.3	0.295
4-2970	4-3310	0.419	90.7	2.7	-7.69	1.173	108.7	0.495	1.690	301.0	521.1	0.853	---	0.75	0.492	106.8	214.6	1.4	0.259
4-2970	4-3330	0.407	90.5	2.4	-7.59	1.167	108.2	0.480	1.649	301.2	526.6	0.858	---	0.68	0.484	101.7	212.5	1.4	0.230
4-2970	4-3350	0.400	90.5	2.3	-7.51	1.162	107.9	0.469	1.620	301.2	532.0	0.860	---	0.62	0.480	97.0	209.4	1.4	0.208
4-2970	4-3370	0.396	90.7	2.3	-7.44	1.159	107.8	0.463	1.601	300.8	537.1	0.860	---	0.58	0.480	92.5	205.2	1.4	0.192
4-2970	4-3390	0.397	91.1	2.6	-7.37	1.157	107.9	0.461	1.589	300.1	541.9	0.857	2.321	0.55	0.482	88.4	200.3	1.4	0.183
4-2970	4-3410	0.401	91.8	3.0	-7.32	1.155	108.3	0.462	1.582	299.0	546.4	0.851	2.313	0.52	0.487	84.5	195.4	1.4	0.181
4-2970	4-3430	0.408	92.7	3.6	-7.26	1.155	108.8	0.466	1.579	297.4	550.6	0.842	2.315	0.50	0.493	81.0	190.9	1.3	0.185
4-2970	4-3450	0.420	93.9	4.4	-7.21	1.155	109.6	0.474	1.579	295.5	554.5	0.830	2.327	0.49	0.501	77.6	187.6	1.2	0.195
4-2970	4-3470	0.435	95.3	5.3	-7.16	1.155	110.6	0.485	1.581	293.0	558.0	0.815	2.348	0.48	0.509	74.5	185.5	1.1	0.210
4-2970	4-3490	0.455	97.0	6.3	-7.11	1.156	111.8	0.499	1.586	290.1	561.2	0.795	2.377	0.48	0.517	71.4	184.8	1.0	0.230
4-2970	4-3510	0.480	99.0	7.4	-7.06	1.157	113.3	0.516	1.592	286.7	563.9	0.770	2.414	0.48	0.525	68.4	185.3	0.9	0.253
4-2970	4-3530	0.509	101.1	8.5	-7.00	1.159	115.1	0.537	1.600	282.8	566.2	0.740	2.460	0.49	0.534	65.4	187.0	0.9	0.280
4-2970	4-3550	0.545	103.6	9.6	-6.94	1.160	117.2	0.563	1.609	278.4	568.0	0.704	2.514	0.51	0.542	62.3	189.6	0.8	0.310
4-2970	4-3570	0.588	106.3	10.7	-6.88	1.162	119.8	0.592	1.619	273.3	569.3	0.660	2.578	0.54	0.550	59.1	193.0	0.7	0.344
4-2970	4-3590	0.639	109.3	11.7	-6.81	1.164	122.7	0.627	1.631	267.6	570.0	0.609	2.653	0.57	0.557	55.6	197.2	0.7	0.383
4-2970	4-3610	0.699	112.6	12.6	-6.73	1.166	126.3	0.667	1.643	261.2	570.0	0.548	2.739	0.62	0.564	51.7	202.1	0.6	0.426
4-2970	4-3630	0.769	116.2	13.5	-6.63	1.168	130.4	0.712	1.657	254.0	569.3	0.477	2.837	0.68	0.570	47.4	207.7	0.6	0.475
4-2970	4-3650	0.851	120.2	14.1	-6.50	1.170	135.3	0.762	1.672	245.9	567.8	0.398	2.947	0.78	0.576	42.5	213.9	0.6	0.530
4-2970	4-3670	0.946	124.6	14.6	-6.34	1.173	141.0	0.816	1.689	236.9	565.3	0.310	3.067	0.92	0.581	36.9	220.8	0.5	0.591
4-2980	4-3200	0.880	112.2	-30.6	-36.08	1.294	115.1	0.764	3.399	301.1	484.5	0.803	---	29.18	0.713	138.0	208.0	21.0	0.648
4-2980	4-3220	0.621	101.9	-14.0	-18.76	1.257	112.8	0.680	2.581	302.4	490.4	0.825	---	11.93	0.648	132.8	214.5	10.9	0.519
4-2980	4-3240	0.535	99.5	-8.7	-14.18	1.230	111.0	0.616	2.198	303.6	496.4	0.843	---	7.42	0.598	127.5	216.7	7.9	0.444
4-2980	4-3260	0.482	98.2	-6.5	-12.07	1.210	109.4	0.567	1.982	304.7	502.6	0.858	---	5.39	0.560	122.1	218.1	6.7	0.384
4-2980	4-3280	0.445	97.2	-5.4	-10.85	1.195	108.2	0.529	1.848	305.7	508.7	0.870	---	4.24	0.532	116.7	218.7	6.0	0.333
4-2980	4-3300	0.418	96.4	-4.8	-10.04	1.183	107.2	0.500	1.760	306.6	514.7	0.879	---	3.51	0.512	111.4	218.7	5.8	0.291
4-2980	4-3320	0.398	95.8	-4.4	-9.45	1.175	106.5	0.479	1.701	307.2	520.6	0.886	---	3.01	0.499	106.2	217.8	5.6	0.256
4-2980	4-3340	0.384	95.4	-3.9	-9.01	1.169	106.0	0.463	1.660	307.6	526.2	0.891	---	2.64	0.491	101.3	215.8	5.6	0.227
4-2980	4-3360	0.374	95.2	-3.4	-8.65	1.164	105.7	0.453	1.632	307.7	531.7	0.893	---	2.37	0.488	96.7	212.7	5.6	0.204
4-2980	4-3380	0.369	95.4	-2.8	-8.35	1.161	105.6	0.446	1.613	307.4	536.9	0.893	---	2.17	0.488	92.5	208.6	5.6	0.188
4-2980	4-3400	0.367	95.8	-2.0	-8.09	1.159	105.7	0.444	1.601	306.7	541.8	0.890	2.311	2.01	0.491	88.5	203.8	5.5	0.179
4-2980	4-3420	0.370	96.4	-1.0	-7.86	1.158	106.0	0.444	1.594	305.6	546.4	0.885	2.302	1.89	0.496	84.9	198.9	5.3	0.176
4-2980	4-3440	0.375	97.4	0.0	-7.65	1.157	106.5	0.448	1.591	304.1	550.7	0.878	2.304	1.80	0.502	81.5	194.4	5.0	0.179
4-2980	4-3460	0.384	98.7	1.2	-7.46	1.157	107.2	0.455	1.591	302.1	554.7	0.867	2.314	1.73	0.509	78.4	191.0	4.6	0.189
4-2980	4-3480	0.397	100.2	2.5	-7.27	1.158	108.2	0.464	1.593	299.7	558.2	0.854	2.333	1.68	0.517	75.4	188.9	4.2	0.202
4-2980	4-3500	0.414	102.0	3.9	-7.10	1.159	109.3	0.477	1.598	296.9	561.5	0.836	2.360	1.66	0.525	72.6	188.1	3.8	0.220
4-2980	4-3520	0.435	104.1	5.3	-6.92	1.160	110.7	0.492	1.605	293.5	564.3	0.815	2.394	1.65	0.533	69.8	188.6	3.4	0.241
4-2980	4-3540	0.462	106.4	6.6	-6.74	1.161	112.3	0.511	1.612	289.7	566.7	0.788	2.436	1.66	0.541	67.1	190.1	3.1	0.266
4-2980	4-3560	0.493	109.0	8.0	-6.55	1.163	114.3	0.533	1.621	285.4	568.7	0.756	2.486	1.70	0.548	64.3	192.6	2.9	0.294
4-2980	4-3580	0.531	111.8	9.3	-6.35	1.164	116.5	0.560	1.632	280.5	570.2	0.718	2.545	1.75	0.556	61.4	196.0	2.6	0.325

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-2980	4-3600	0.576	114.8	10.5	-6.13	1.166	119.2	0.591	1.643	275.1	571.2	0.672	2.614	1.84	0.562	58.2	200.0	2.4	0.360
4-2980	4-3620	0.629	118.2	11.5	-5.88	1.168	122.4	0.627	1.655	269.0	571.6	0.617	2.693	1.96	0.569	54.8	204.7	2.3	0.399
4-2980	4-3640	0.692	121.8	12.4	-5.60	1.170	126.1	0.668	1.668	262.2	571.3	0.554	2.783	2.13	0.574	51.0	210.0	2.1	0.442
4-2980	4-3660	0.765	125.6	13.1	-5.25	1.172	130.4	0.714	1.683	254.7	570.3	0.481	2.885	2.36	0.579	46.8	215.9	2.0	0.491
4-2980	4-3680	0.850	129.8	13.6	-4.82	1.175	135.4	0.765	1.699	246.3	568.4	0.398	2.999	2.69	0.583	41.9	222.4	1.9	0.546
4-2990	4-3190	0.632	110.8	42.9	10.52	1.341	114.7	0.858	5.809	306.3	476.9	0.824	---	-17.31	0.792	141.4	212.7	-12.3	0.690
4-2990	4-3250	0.731	113.6	-37.6	-32.14	1.231	108.7	0.601	2.192	309.2	495.6	0.875	---	25.71	0.599	126.4	214.3	25.1	0.494
4-2990	4-3270	0.547	105.8	-26.4	-20.79	1.211	107.1	0.551	1.982	310.7	501.9	0.890	---	14.48	0.562	121.0	219.1	17.7	0.397
4-2990	4-3290	0.469	102.9	-20.5	-16.19	1.196	105.9	0.513	1.852	312.0	508.2	0.901	---	10.01	0.536	115.7	220.7	14.4	0.337
4-2990	4-3310	0.423	101.3	-17.0	-13.71	1.185	104.9	0.485	1.766	313.0	514.3	0.910	---	7.66	0.517	110.5	221.0	12.8	0.292
4-2990	4-3330	0.392	100.1	-14.7	-12.14	1.177	104.2	0.464	1.708	313.8	520.4	0.916	---	6.22	0.505	105.5	220.3	11.9	0.255
4-2990	4-3350	0.372	99.4	-12.8	-11.04	1.171	103.7	0.448	1.668	314.3	526.2	0.920	---	5.26	0.498	100.7	218.4	11.5	0.225
4-2990	4-3370	0.358	99.1	-11.1	-10.21	1.166	103.5	0.438	1.641	314.4	531.7	0.922	---	4.58	0.495	96.3	215.4	11.2	0.202
4-2990	4-3390	0.349	99.1	-9.5	-9.56	1.164	103.4	0.432	1.622	314.1	537.0	0.922	---	4.08	0.496	92.3	211.4	10.9	0.186
4-2990	4-3410	0.344	99.5	-7.9	-9.03	1.162	103.5	0.429	1.611	313.5	542.0	0.920	2.301	3.71	0.499	88.5	206.6	10.5	0.177
4-2990	4-3430	0.343	100.2	-6.2	-8.57	1.161	103.8	0.429	1.604	312.4	546.7	0.916	2.293	3.42	0.503	85.0	201.8	9.9	0.173
4-2990	4-3450	0.346	101.2	-4.5	-8.17	1.160	104.3	0.432	1.602	310.9	551.0	0.909	2.294	3.20	0.510	81.9	197.4	9.2	0.176
4-2990	4-3470	0.353	102.6	-2.7	-7.81	1.160	105.0	0.438	1.602	308.9	555.0	0.900	2.304	3.04	0.517	78.9	194.0	8.4	0.184
4-2990	4-3490	0.363	104.3	-0.9	-7.47	1.161	105.8	0.447	1.605	306.5	558.6	0.888	2.321	2.92	0.524	76.1	192.0	7.6	0.197
4-2990	4-3510	0.377	106.4	0.9	-7.15	1.161	106.9	0.458	1.610	303.7	561.9	0.873	2.346	2.84	0.532	73.5	191.2	6.8	0.214
4-2990	4-3530	0.395	108.6	2.7	-6.84	1.163	108.2	0.471	1.616	300.4	564.8	0.854	2.378	2.79	0.540	70.9	191.7	6.1	0.233
4-2990	4-3550	0.418	111.2	4.5	-6.54	1.164	109.7	0.488	1.624	296.6	567.3	0.831	2.417	2.78	0.547	68.4	193.2	5.5	0.256
4-2990	4-3570	0.446	114.0	6.1	-6.23	1.165	111.5	0.508	1.633	292.4	569.4	0.803	2.464	2.80	0.555	65.9	195.6	5.0	0.281
4-2990	4-3590	0.480	117.0	7.6	-5.91	1.167	113.6	0.532	1.644	287.6	571.0	0.769	2.518	2.86	0.561	63.3	198.9	4.6	0.310
4-2990	4-3610	0.520	120.2	9.0	-5.57	1.169	116.0	0.560	1.655	282.3	572.2	0.729	2.581	2.95	0.568	60.5	202.8	4.3	0.341
4-2990	4-3630	0.567	123.6	10.2	-5.20	1.171	118.9	0.592	1.667	276.5	572.8	0.680	2.654	3.10	0.573	57.4	207.4	4.0	0.376
4-2990	4-3650	0.622	127.3	11.2	-4.78	1.173	122.1	0.629	1.680	270.1	572.9	0.624	2.737	3.31	0.578	54.1	212.5	3.7	0.415
4-2990	4-3670	0.687	131.1	11.9	-4.29	1.175	126.0	0.671	1.694	263.0	572.3	0.558	2.831	3.59	0.582	50.4	218.1	3.5	0.459
4-2990	4-3690	0.763	135.2	12.4	-3.71	1.177	130.4	0.718	1.709	255.1	571.0	0.482	2.937	3.99	0.586	46.1	224.3	3.3	0.507
4-3000	4-3180	0.645	113.1	29.6	3.90	1.401	114.5	0.99208	.991	310.9	469.6	0.839	---	-10.63	0.888	144.5	214.5	-7.1	0.775
4-3000	4-3200	0.565	114.3	37.4	7.03	1.337	111.7	0.841	5.410	312.2	475.7	0.862	---	-13.59	0.786	140.0	216.2	-10.3	0.667
4-3000	4-3220	0.534	119.6	51.2	12.63	1.290	109.3	0.728	3.247	313.7	481.9	0.882	---	-19.03	0.706	135.2	216.9	-16.0	0.589
4-3000	4-3240	0.635	155.9	70.3	25.36	1.256	107.1	0.643	2.526	315.6	488.3	0.901	---	-31.59	0.645	130.0	213.4	-27.1	0.568
4-3000	4-3280	0.988	135.4	-56.2	-50.85	1.211	105.0	0.537	1.975	316.2	501.6	0.915	---	44.96	0.564	119.9	206.5	38.2	0.559
4-3000	4-3300	0.625	112.9	-43.7	-28.88	1.197	103.6	0.498	1.850	318.3	508.0	0.928	---	23.16	0.538	114.6	218.5	29.9	0.386
4-3000	4-3320	0.490	106.9	-34.9	-20.76	1.186	102.6	0.470	1.767	319.7	514.4	0.937	---	15.22	0.521	109.4	221.4	24.4	0.312
4-3000	4-3340	0.422	104.1	-29.1	-16.66	1.178	101.9	0.449	1.711	320.6	520.6	0.942	---	11.30	0.509	104.6	221.5	21.4	0.265
4-3000	4-3360	0.382	102.7	-24.8	-14.17	1.173	101.5	0.435	1.673	321.2	526.5	0.946	---	9.00	0.503	100.0	220.0	19.6	0.231
4-3000	4-3380	0.356	101.9	-21.3	-12.49	1.169	101.2	0.425	1.647	321.4	532.1	0.948	---	7.51	0.501	95.7	217.2	18.5	0.206
4-3000	4-3400	0.339	101.7	-18.3	-11.25	1.166	101.2	0.419	1.630	321.2	537.5	0.948	---	6.48	0.502	91.8	213.3	17.5	0.188
4-3000	4-3420	0.329	102.0	-15.5	-10.29	1.164	101.3	0.416	1.619	320.5	542.5	0.946	2.292	5.73	0.505	88.2	208.7	16.5	0.178
4-3000	4-3440	0.324	102.8	-12.8	-9.51	1.163	101.6	0.416	1.613	319.4	547.1	0.942	2.284	5.18	0.510	85.0	204.0	15.3	0.174
4-3000	4-3460	0.323	104.0	-10.1	-8.85	1.163	102.1	0.419	1.611	317.9	551.5	0.936	2.286	4.76	0.517	82.0	199.8	14.0	0.176
4-3000	4-3480	0.326	105.6	-7.6	-8.27	1.163	102.8	0.424	1.612	315.9	555.5	0.929	2.295	4.44	0.524	79.2	196.6	12.6	0.183
4-3000	4-3500	0.333	107.6	-5.0	-7.76	1.164	103.6	0.431	1.615	313.5	559.1	0.918	2.312	4.20	0.531	76.6	194.7	11.2	0.195
4-3000	4-3520	0.344	109.9	-2.6	-7.28	1.164	104.6	0.441	1.621	310.6	562.4	0.905	2.336	4.03	0.539	74.1	194.0	10.0	0.210
4-3000	4-3540	0.359	112.5	-0.3	-6.84	1.166	105.8	0.454	1.628	307.3	565.3	0.889	2.366	3.92	0.546	71.8	194.5	8.9	0.228
4-3000	4-3560	0.379	115.4	1.9	-6.40	1.167	107.2	0.469	1.636	303.5	567.9	0.869	2.403	3.85	0.553	69.5	196.1	8.0	0.249
4-3000	4-3580	0.403	118.5	4.0	-5.98	1.168	108.9	0.487	1.645	299.3	570.0	0.844	2.446	3.83	0.560	67.2	198.6	7.3	0.272
4-3000	4-3600	0.433	121.8	5.8	-5.54	1.170	110.8	0.508	1.656	294.7	571.8	0.815	2.496	3.86	0.567	64.8	201.8	6.6	0.298
4-3000	4-3620	0.468	125.3	7.4	-5.10	1.172	113.1	0.533	1.667	289.5	573.1	0.779	2.555	3.94	0.572	62.3	205.7	6.1	0.327
4-3000	4-3640	0.510	128.9	8.7	-4.62	1.174	115.7	0.561	1.679	283.9	573.9	0.737	2.621	4.08	0.577	59.6	210.1	5.7	0.358
4-3000	4-3660	0.560	132.7	9.8	-4.10	1.176	118.6	0.594	1.692	277.7	574.2	0.686	2.698	4.28	0.582	56.7	215.1	5.3	0.393
4-3000	4-3680	0.618	136.6	10.6	-3.53	1.178	122.0	0.632	1.706	270.9	574.0	0.628	2.784	4.57	0.586	53.4	220.5	5.0	0.432
4-3000	4-3700	0.686	140.7	11.2	-2.86	1.180	126.0	0.675	1.721	263.6	573.1	0.560	2.882	4.97	0.589	49.7	226.5	4.7	0.475
4-3010	4-3190	0.587	117.8	29.1	3.58	1.394	111.2	0.97129	.986	317.0	468.5	0.878	---	-10.07	0.875	143.1	217.4	-7.0	0.752
4-3010	4-3210	0.508	118.2	35.4	5.69	1.332	108.6	0.819	4.951	318.5	474.8	0.898	---	-11.97	0.776	138.5	219.2	-9.5	0.645
4-3010	4-3230	0.461	120.2	45.4	8.83	1.287	106.3	0.707	3.124	320.3	481.4	0.915	---	-14.90	0.699	133.7	220.5	-13.4	0.561
4-3010	4-3250	0.461	128.7	60.0	14.06	1.254	104.4	0.624	2.472	322.2	488.1	0.930	---	-19.92	0.641	128.6	220.6	-19.8	0.504
4-3010	4-3270	0.569	175.5	74.0	24.45	1.229	102.6	0.560	2.148	324.4	494.9	0.944	---	-30.10	0.596	123.3	216.9	-30.3	0.495
4-3010	4-3290	0.980	234.6	56.4	51.06	1.211	100.9	0.511	1.960	327.5	501.7	0.958	---	-56.50	0.563	117.9	201.1	-40.9	0.634
4-3010	4-3330	0.755	121.9	-58.3	-38.30	1.187	100.5	0.457	1.764	326.1	514.8	0.958	---	33.30	0.523	108.3	214.2	40.6	0.419
4-3010	4-3350	0.540	109.7	-47.8	-25.61	1.180	99.7	0.497	1.711	327.6	521.1	0.964	---	20.84	0.513	103.5	219.6	34.9	0.311
4-3010	4-3370	0.439	105.5	-40.1	-19.56	1.175	99.2	0.422	1.675	328.4	527.2	0.967	---	15.03	0.508	99.1	219.9	30.7	0.255
4-3010	4-3390	0.383	103.7	-34.1	-16.04	1.171	99.0	0.413	1.651	328.7	532.9	0.969	---	11.75	0.506	95.0	217.9	27.8	0.220
4-3010	4-3410	0.349	103.0	-29.1	-13.72	1.168	99.0	0.407	1.635	328.5	538.2	0.969	---	9.68	0.508	91.2	214.4	25.6	0.198
4-3010	4-3430	0.327	103.2	-24.7	-12.06	1.167	99.1	0.405	1.625	327.8	543.2	0.967	2.283	8.27	0.511	87.8	210.0	23.5	0.184
4-3010	4-3450	0.314	104.0	-20.7	-10.78	1.166	99.4	0.405	1.620	326.7	547.9	0.964	2.277	7.27	0.517	84.7	205.6	21.4	0.179
4-3010	4-3470	0.307	105.4	-16.9	-9.76	1.166	99.9	0.408	1.619	325.1	552.2	0.959	2.279	6.53	0.523	81.9	201.6	19.2	0.179
4-3010	4-3490	0.305	107.3	-13.3	-8.90	1.166	100.6	0.412	1.621	323.0	556.1	0.953	2.289	5.98	0.530	79.3	198.7	17.0	0.185
4-3010	4-3510	0.308	109.7	-9.9	-8.16	1.167	101.4	0.419	1.625	320.6	559.7	0.944	2.306	5.57	0.537	76.8	197.0	15.1	0.195
4-3010	4-3530	0.315	112.5	-6.7	-7.50	1.168	102.4	0.428	1.631	317.6	563.0	0.933	2.329	5.26	0.545	74.6	196.5	13.3	0.209
4-3010	4-3550	0.327	115.5	-3.7	-6.89	1.169	103.5	0.439	1.638	314.3	565.9	0.919	2.357	5.04	0.552	72.4	197.2	11.8	0.226
4-3010	4-3570	0.343	118.9	-0.9	-6.32	1.170	104.9	0.453	1.647	310.5	568.5	0.901	2.392	4.89	0.559	70.3	198.9	10.6	0.245
4-3010	4-3590	0.364	122.4	1.5	-5.78	1.172	106.5	0.469	1.656	306.3	570.7	0.880	2.433	4.80	0.565	68.2	201.4	9.5	0.266
4-3010	4-3610	0.390	126.2	3.7	-5.24	1.173	108.3	0.487	1.667	301.7	572.5	0.855	2.480	4.78	0.571	66.0	204.6	8.6	0.290
4-3010	4-3630	0.422	130.0	5.6	-4.69	1.175	110.3	0.509	1.679	296.6	573.9	0.823	2.534	4.82	0.577	63.8	208.5	7.9	0.316
4-3010	4-3650	0.459	133.9	7.1	-4.13	1.177	112.7	0.535	1.691	291.1	574.8	0.786	2.596	4.92	0.581	61.4	212.9	7.3	0.344
4-3010	4-3670	0.504	137.9	8.4	-3.54	1.179	115.4	0.564	1.704	285.1	575.3	0.742	2.666	5.09	0.585	58.8	217.7	6.8	0.375
4-3010	4-3690	0.556	142.0	9.3	-2.89	1.181	118.5	0.598	1.718	278.7	575.4	0.690	2.746	5.35	0.589	55.9	223.1	6.4	0.410

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3010	4-3710	0.616	146.1	9.8	-2.17	1.183	122.0	0.636	1.733	271.7	574.8	0.630	2.835	5.71	0.591	52.7	228.8	6.0	0.447
4-3020	4-3180	0.631	121.6	25.1	2.18	1.467	110.4	1.154	-5.824	322.0	461.6	0.895	---	-8.65	0.984	145.8	218.0	-5.6	0.859
4-3020	4-3200	0.528	121.3	29.1	3.42	1.385	107.7	0.942	15.863	323.5	467.8	0.914	---	-9.63	0.860	141.6	220.1	-7.1	0.727
4-3020	4-3220	0.453	121.0	34.9	5.01	1.326	105.3	0.792	4.475	325.3	474.4	0.930	---	-10.96	0.764	137.0	222.0	-9.2	0.621
4-3020	4-3240	0.405	121.5	43.4	7.14	1.283	103.2	0.683	2.977	327.3	481.3	0.945	---	-12.83	0.690	132.1	223.4	-12.2	0.538
4-3020	4-3260	0.386	124.5	55.1	10.22	1.251	101.4	0.602	2.404	329.5	488.3	0.957	---	-15.66	0.634	127.0	224.1	-16.7	0.474
4-3020	4-3280	0.411	138.0	69.4	15.09	1.228	99.8	0.541	2.110	331.8	495.4	0.968	---	-20.27	0.592	121.7	223.4	-23.7	0.434
4-3020	4-3300	0.524	202.4	77.0	23.96	1.210	98.5	0.496	1.937	334.2	502.5	0.976	---	-28.89	0.560	116.5	219.4	-33.8	0.436
4-3020	4-3320	0.843	245.3	59.7	43.75	1.197	97.2	0.461	1.828	337.1	509.6	0.985	---	-48.41	0.538	111.2	206.6	-43.4	0.547
4-3020	4-3360	0.914	134.5	-70.0	-48.49	1.181	97.7	0.426	1.707	334.0	522.1	0.979	---	44.35	0.515	102.5	208.2	46.2	0.487
4-3020	4-3380	0.607	110.9	-58.4	-30.52	1.176	97.0	0.412	1.674	335.6	528.2	0.984	---	26.65	0.511	98.0	215.9	43.1	0.332
4-3020	4-3400	0.467	104.9	-49.1	-22.26	1.173	96.8	0.404	1.652	336.2	533.9	0.985	---	18.66	0.510	94.1	216.6	38.7	0.260
4-3020	4-3420	0.391	103.0	-41.7	-17.63	1.171	96.8	0.399	1.638	336.1	539.3	0.985	---	14.33	0.512	90.5	214.3	34.9	0.222
4-3020	4-3440	0.347	102.8	-35.4	-14.66	1.169	96.9	0.396	1.630	335.4	544.3	0.984	2.276	11.66	0.517	87.2	210.5	31.4	0.200
4-3020	4-3460	0.319	103.6	-29.8	-12.57	1.169	97.3	0.397	1.626	334.2	548.9	0.981	2.271	9.88	0.522	84.3	206.5	28.0	0.190
4-3020	4-3480	0.302	105.3	-24.7	-11.00	1.169	97.7	0.399	1.626	332.5	553.1	0.977	2.274	8.63	0.529	81.6	203.0	24.8	0.187
4-3020	4-3500	0.292	107.6	-20.0	-9.74	1.169	98.4	0.403	1.628	330.4	557.0	0.972	2.285	7.72	0.536	79.1	200.4	21.7	0.191
4-3020	4-3520	0.289	110.4	-15.5	-8.71	1.170	99.2	0.409	1.633	327.8	560.5	0.965	2.302	7.04	0.543	76.9	199.0	19.0	0.199
4-3020	4-3540	0.291	113.8	-11.4	-7.81	1.171	100.2	0.417	1.640	324.8	563.7	0.955	2.324	6.54	0.550	74.8	198.8	16.7	0.211
4-3020	4-3560	0.299	117.5	-7.6	-7.02	1.172	101.3	0.427	1.648	321.4	566.6	0.944	2.352	6.17	0.557	72.8	199.7	14.7	0.226
4-3020	4-3580	0.311	121.4	-4.1	-6.30	1.174	102.6	0.439	1.657	317.6	569.1	0.929	2.385	5.90	0.564	70.9	201.5	13.0	0.243
4-3020	4-3600	0.328	125.6	-1.1	-5.63	1.175	104.1	0.454	1.667	313.4	571.3	0.911	2.424	5.73	0.570	68.9	204.2	11.7	0.263
4-3020	4-3620	0.351	129.9	1.6	-4.98	1.177	105.8	0.470	1.678	308.8	573.1	0.889	2.468	5.63	0.576	67.0	207.4	10.5	0.284
4-3020	4-3640	0.379	134.3	3.8	-4.34	1.179	107.8	0.490	1.690	303.7	574.6	0.862	2.519	5.60	0.581	65.0	211.3	9.6	0.307
4-3020	4-3660	0.413	138.6	5.5	-3.70	1.181	110.0	0.513	1.703	298.3	575.7	0.830	2.576	5.65	0.585	62.9	215.7	8.8	0.333
4-3020	4-3680	0.453	143.0	6.9	-3.04	1.182	112.4	0.539	1.716	292.5	576.3	0.791	2.641	5.77	0.589	60.6	220.5	8.2	0.361
4-3020	4-3700	0.500	147.3	7.8	-2.35	1.184	115.2	0.569	1.730	286.2	576.5	0.746	2.714	5.97	0.591	58.1	225.7	7.7	0.392
4-3020	4-3720	0.554	151.5	8.5	-1.60	1.186	118.4	0.603	1.745	279.5	576.3	0.693	2.797	6.27	0.593	55.2	231.2	7.2	0.425
4-3030	4-3190	0.565	124.1	25.6	2.30	1.452	106.5	1.114	-8.133	328.8	461.0	0.930	---	-8.47	0.961	144.3	220.6	-5.7	0.827
4-3030	4-3210	0.470	123.2	29.7	3.35	1.374	104.0	0.907	10.199	330.6	467.6	0.946	---	-9.21	0.840	140.0	222.6	-7.1	0.698
4-3030	4-3230	0.401	122.1	35.5	4.62	1.318	101.8	0.761	4.013	332.7	474.6	0.959	---	-10.18	0.748	135.4	224.4	-9.0	0.596
4-3030	4-3250	0.356	121.1	43.4	6.22	1.277	99.8	0.656	2.817	335.1	481.8	0.970	---	-11.48	0.678	130.4	225.8	-11.5	0.514
4-3030	4-3270	0.333	121.1	53.7	8.34	1.247	98.2	0.579	2.324	337.5	489.2	0.979	---	-13.30	0.625	125.3	226.7	-15.2	0.449
4-3030	4-3290	0.338	124.6	66.1	11.31	1.225	96.8	0.522	2.063	340.0	496.6	0.986	---	-15.98	0.585	120.0	226.7	-20.3	0.401
4-3030	4-3310	0.382	147.3	79.0	15.84	1.209	95.7	0.480	1.908	342.3	503.9	0.992	---	-20.21	0.556	114.8	225.2	-27.7	0.376
4-3030	4-3330	0.496	235.4	78.4	23.64	1.197	94.7	0.449	1.809	344.7	511.1	0.996	---	-27.72	0.536	109.7	220.5	-37.3	0.388
4-3030	4-3350	0.761	257.1	61.4	39.54	1.188	93.8	0.427	1.743	347.2	518.1	1.000	---	-43.32	0.523	104.8	209.7	-45.6	0.486
4-3030	4-3390	1.075	156.5	-79.3	-58.60	1.178	95.2	0.405	1.670	341.8	529.4	0.993	---	55.42	0.513	97.1	204.4	47.1	0.573
4-3030	4-3410	0.680	108.8	-66.7	-35.18	1.175	94.7	0.397	1.650	343.5	535.3	0.996	---	32.31	0.513	93.1	212.0	48.0	0.369
4-3030	4-3430	0.497	102.1	-55.8	-24.57	1.173	94.6	0.392	1.639	343.8	540.7	0.996	2.281	22.02	0.516	89.6	212.8	44.2	0.278
4-3030	4-3450	0.402	100.8	-47.1	-18.83	1.172	94.7	0.390	1.632	343.1	545.6	0.995	2.269	16.61	0.521	86.5	210.4	39.6	0.233
4-3030	4-3470	0.346	101.5	-39.8	-15.24	1.171	95.1	0.391	1.630	341.9	550.1	0.993	2.267	13.36	0.527	83.7	207.1	35.0	0.211
4-3030	4-3490	0.311	103.3	-33.3	-12.75	1.172	95.6	0.393	1.631	340.1	554.2	0.990	2.272	11.23	0.534	81.1	204.0	30.6	0.202
4-3030	4-3510	0.290	106.1	-27.3	-10.91	1.172	96.2	0.397	1.635	337.9	558.0	0.986	2.283	9.75	0.541	78.9	201.9	26.8	0.201
4-3030	4-3530	0.278	109.5	-21.7	-9.45	1.173	97.0	0.402	1.641	335.2	561.5	0.981	2.300	8.69	0.548	76.8	200.8	23.0	0.206
4-3030	4-3550	0.274	113.6	-16.5	-8.26	1.174	98.0	0.409	1.648	332.1	564.6	0.973	2.323	7.91	0.555	74.8	200.9	20.0	0.216
4-3030	4-3570	0.276	118.1	-11.8	-7.24	1.176	99.1	0.418	1.657	328.6	567.4	0.964	2.350	7.33	0.562	73.0	202.1	17.5	0.229
4-3030	4-3590	0.283	122.8	-7.5	-6.34	1.177	100.4	0.429	1.667	324.7	569.8	0.952	2.381	6.91	0.569	71.2	204.0	15.4	0.244
4-3030	4-3610	0.297	127.8	-3.8	-5.52	1.179	101.8	0.442	1.678	320.5	572.0	0.937	2.418	6.61	0.575	69.5	206.8	13.7	0.261
4-3030	4-3630	0.316	132.9	-0.6	-4.76	1.181	103.5	0.456	1.689	315.8	573.8	0.918	2.460	6.40	0.580	67.7	210.2	12.3	0.281
4-3030	4-3650	0.340	137.9	1.9	-4.03	1.182	105.3	0.474	1.702	310.8	575.3	0.895	2.508	6.29	0.584	65.9	214.1	11.2	0.302
4-3030	4-3670	0.370	142.9	3.9	-3.32	1.184	107.4	0.494	1.715	305.5	576.4	0.868	2.562	6.26	0.588	64.1	218.4	10.2	0.325
4-3030	4-3690	0.407	147.7	5.4	-2.60	1.186	109.7	0.517	1.728	299.8	577.1	0.834	2.622	6.32	0.591	62.0	223.2	9.5	0.350
4-3030	4-3710	0.449	152.3	6.5	-1.87	1.188	112.2	0.544	1.742	293.7	577.5	0.795	2.690	6.45	0.594	59.8	228.3	8.8	0.377
4-3030	4-3730	0.498	156.8	7.1	-1.10	1.190	115.1	0.574	1.757	287.2	577.4	0.748	2.766	6.68	0.596	57.3	233.7	8.2	0.406
4-3040	4-3180	0.622	126.1	23.3	1.63	1.540	104.8	1.360	-2.631	334.4	454.6	0.948	---	-7.81	1.085	146.7	221.0	-4.9	0.949
4-3040	4-3200	0.502	124.9	26.6	2.43	1.435	102.3	1.065	14.688	336.2	461.1	0.960	---	-8.24	0.933	142.7	223.0	-5.9	0.791
4-3040	4-3220	0.415	123.0	31.1	3.34	1.361	100.0	0.866	7.243	338.3	468.1	0.972	---	-8.79	0.818	138.4	224.9	-7.1	0.667
4-3040	4-3240	0.354	120.4	37.1	4.40	1.308	98.0	0.726	3.585	340.9	475.5	0.981	---	-9.50	0.730	133.6	226.6	-8.8	0.568
4-3040	4-3260	0.315	117.5	44.8	5.67	1.270	96.3	0.627	2.649	343.6	483.1	0.989	---	-10.44	0.864	128.6	227.9	-11.1	0.489
4-3040	4-3280	0.294	114.3	54.2	7.26	1.242	94.9	0.555	2.235	346.3	490.8	0.994	---	-11.69	0.814	123.4	228.7	-14.1	0.425
4-3040	4-3300	0.294	111.6	64.8	9.32	1.222	93.7	0.503	2.009	349.0	498.5	0.998	---	-13.42	0.577	118.1	228.8	-18.3	0.375
4-3040	4-3320	0.316	111.1	76.3	12.16	1.207	92.7	0.465	1.873	351.4	506.1	1.001	---	-15.93	0.550	112.9	227.9	-24.1	0.341
4-3040	4-3340	0.370	153.5	87.8	16.37	1.196	92.0	0.438	1.785	353.6	513.3	1.003	---	-19.82	0.533	107.9	225.3	-31.6	0.328
4-3040	4-3360	0.480	267.6	78.1	23.35	1.188	91.3	0.419	1.727	355.5	520.2	1.004	---	-26.47	0.522	103.2	220.1	-40.5	0.348
4-3040	4-3380	0.709	269.4	62.7	36.75	1.183	90.7	0.405	1.688	357.4	526.8	1.004	---	-39.55	0.516	98.7	210.9	-47.6	0.440
4-3040	4-3440	0.749	100.8	-72.7	-39.31	1.175	92.5	0.388	1.637	351.1	542.2	1.001	2.273	37.53	0.519	88.6	209.7	50.0	0.413
4-3040	4-3460	0.525	96.9	-60.0	-26.35	1.174	92.5	0.387	1.633	350.9	547.1	1.001	2.264	24.92	0.524	85.6	209.8	47.0	0.301
4-3040	4-3480	0.410	97.5	-50.3	-19.54	1.174	92.9	0.387	1.632	349.7	551.5	1.000	2.264	18.47	0.531	82.9	207.5	42.0	0.250
4-3040	4-3500	0.343	99.6	-42.1	-15.39	1.174	93.4	0.389	1.635	347.9	555.5	0.998	2.271	14.70	0.538	80.5	205.0	36.8	0.226
4-3040	4-3520	0.303	102.8	-34.8	-12.57	1.175	94.1	0.393	1.640	345.6	559.2	0.996	2.284	12.26	0.545	78.4	203.2	31.5	0.217
4-3040	4-3540	0.278	106.9	-28.1	-10.50	1.176	94.9	0.398	1.647	342.8	562.5	0.992	2.302	10.60	0.553	76.5	202.5	27.0	0.218
4-3040	4-3560	0.264	111.7	-21.9	-8.88	1.178	95.8	0.404	1.655	339.6	565.5	0.986	2.324	9.41	0.560	74.7	202.9	23.2	0.224
4-3040	4-3580	0.259	117.1	-16.1	-7.56	1.179	97.0	0.412	1.665	336.0	568.2	0.979	2.350	8.55	0.567	73.0	204.3	20.1	0.234
4-3040	4-3600	0.261	122.9	-11.0	-6.45	1.181	98.2	0.421	1.676	332.0	570.6	0.970	2.381	7.91	0.573	71.4	206.5	17.6	0.247
4-3040	4-3620	0.269	128.9	-6.5	-5.47	1.182	99.6	0.432	1.687	327.7	572.7	0.958	2.417	7.45	0.579	69.8	209.3	15.6	0.263
4-3040	4-3640	0.284	134.9	-2.8	-4.58	1.184	101.2	0.446	1.699	323.0	574.5	0.942	2.457	7.12	0.584	68.3	212.8	13.9	0.280
4-3040	4-3660	0.305	140.8	0.2	-3.75	1.186	102.9	0.461	1.712	318.0	575.9	0.923	2.502	6.90	0.588	66.7	216.8	12.5	0.299
4-3040	4-3680	0.332	146.5	2.5	-2.97	1.188	104.9	0.479	1.726	312.7	577.1	0.900	2.552	6.78	0.591	65.0	221.1	11.4	0.319
4-3040	4-3700	0.364	151.9	4.2	-2.20	1.190	107.0	0.499	1.740	307.0	577.9	0.871	2.609	6.75	0.594	63.2	225.9	10.5	0.341

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3040	4-3720	0.403	157.1	5.3	-1.44	1.192	109.4	0.523	1.755	301.0	578.3	0.837	2.672	6.81	0.596	61.2	231.0	9.8	0.365
4-3040	4-3740	0.447	161.9	5.9	-0.65	1.194	112.1	0.549	1.770	294.7	578.4	0.797	2.742	6.95	0.597	59.1	236.3	9.1	0.391
4-3050	4-3190	0.553	125.5	24.6	1.85	1.514	100.1	1.288	-3.388	342.1	454.8	0.975	---	-7.64	1.046	145.2	223.3	-5.0	0.904
4-3050	4-3210	0.445	123.1	28.3	2.57	1.416	97.9	1.007	34.308	344.3	461.8	0.983	---	-7.95	0.901	141.2	225.2	-6.0	0.752
4-3050	4-3230	0.369	119.5	33.3	3.38	1.347	95.9	0.819	5.477	346.9	469.3	0.990	---	-8.35	0.792	136.7	226.9	-7.2	0.634
4-3050	4-3250	0.318	114.9	39.5	4.28	1.298	94.1	0.689	3.201	349.9	477.2	0.995	---	-8.87	0.709	131.8	228.3	-8.7	0.539
4-3050	4-3270	0.286	109.3	46.7	5.33	1.262	92.6	0.597	2.482	353.0	485.3	0.999	---	-9.54	0.646	126.7	229.5	-10.7	0.462
4-3050	4-3290	0.271	102.6	54.7	6.59	1.237	91.4	0.532	2.141	356.0	493.4	1.001	---	-10.42	0.600	121.4	230.1	-13.4	0.400
4-3050	4-3310	0.270	94.9	63.0	8.13	1.218	90.4	0.486	1.950	358.9	501.3	1.002	---	-11.61	0.566	116.1	230.1	-17.0	0.351
4-3050	4-3330	0.284	84.9	71.6	10.11	1.204	89.6	0.453	1.832	1.3	148.9	---	---	-13.23	0.543	110.9	229.2	-21.7	0.314
4-3050	4-3350	0.315	66.2	80.0	12.80	1.195	89.0	0.430	1.757	3.4	156.2	---	---	-15.57	0.527	106.0	227.1	-27.7	0.292
4-3050	4-3370	0.372	351.7	84.8	16.71	1.188	88.6	0.414	1.707	4.9	162.9	---	---	-19.13	0.518	101.3	223.5	-35.2	0.289
4-3050	4-3390	0.474	294.4	77.0	23.01	1.183	88.3	0.402	1.674	6.1	169.3	---	---	-25.08	0.514	97.1	217.9	-43.1	0.317
4-3050	4-3410	0.674	281.9	64.1	34.66	1.180	88.0	0.395	1.653	7.1	175.2	---	---	-36.38	0.514	93.1	210.6	-48.9	0.404
4-3050	4-3430	1.097	277.8	44.9	59.77	1.178	87.5	0.391	1.640	9.0	180.9	---	2.281	-61.13	0.517	89.4	204.5	-46.8	0.620
4-3050	4-3470	0.808	84.8	-75.9	-42.65	1.176	90.5	0.386	1.631	358.1	548.7	1.002	2.261	42.01	0.527	84.6	209.8	50.3	0.457
4-3050	4-3490	0.544	90.5	-61.7	-27.45	1.176	90.7	0.387	1.633	357.4	553.0	1.002	2.264	27.19	0.536	82.0	208.6	47.9	0.326
4-3050	4-3510	0.412	94.0	-51.2	-19.70	1.177	91.2	0.388	1.637	355.7	556.9	1.001	2.273	19.83	0.542	79.8	206.3	42.4	0.268
4-3050	4-3530	0.337	98.0	-42.3	-15.08	1.178	91.9	0.392	1.643	353.3	560.4	1.000	2.287	15.61	0.549	77.8	204.7	36.5	0.243
4-3050	4-3550	0.292	102.8	-34.4	-12.00	1.179	92.7	0.396	1.652	350.4	563.6	0.998	2.305	12.94	0.557	76.0	204.3	31.0	0.235
4-3050	4-3570	0.265	108.3	-27.2	-9.77	1.181	93.7	0.401	1.661	347.1	566.5	0.995	2.328	11.14	0.564	74.4	204.9	26.4	0.236
4-3050	4-3590	0.250	114.6	-20.5	-8.04	1.183	94.8	0.408	1.672	343.4	569.1	0.990	2.354	9.86	0.570	72.9	206.4	22.7	0.242
4-3050	4-3610	0.244	121.4	-14.4	-6.64	1.184	96.0	0.416	1.684	339.3	571.4	0.983	2.384	8.94	0.577	71.4	208.8	19.6	0.253
4-3050	4-3630	0.247	128.6	-9.1	-5.46	1.186	97.4	0.426	1.696	334.9	573.4	0.974	2.419	8.27	0.582	70.0	211.8	17.2	0.266
4-3050	4-3650	0.257	135.7	-4.7	-4.43	1.188	99.0	0.437	1.709	330.2	575.1	0.981	2.457	7.78	0.587	68.6	215.4	15.3	0.281
4-3050	4-3670	0.274	142.7	-1.2	-3.50	1.190	100.7	0.451	1.723	325.2	576.6	0.946	2.500	7.43	0.591	67.2	219.4	13.7	0.297
4-3050	4-3690	0.297	149.4	1.4	-2.64	1.192	102.5	0.467	1.737	319.8	577.7	0.927	2.547	7.21	0.594	65.7	223.8	12.4	0.315
4-3050	4-3710	0.326	155.7	3.2	-1.83	1.194	104.5	0.485	1.752	314.2	578.5	0.903	2.600	7.08	0.596	64.1	228.6	11.4	0.335
4-3050	4-3730	0.361	161.4	4.3	-1.03	1.196	106.8	0.505	1.766	308.3	579.0	0.874	2.659	7.04	0.598	62.4	233.6	10.5	0.356
4-3050	4-3750	0.401	166.9	4.9	-0.24	1.198	109.2	0.529	1.782	302.2	579.2	0.840	2.724	7.10	0.599	60.5	238.9	9.8	0.379
4-3060	4-3180	0.633	125.0	23.3	1.44	1.619	97.1	1.610	-1.618	348.8	449.1	0.987	---	-7.25	1.190	147.5	223.6	-4.4	1.045
4-3060	4-3200	0.494	122.3	26.5	2.07	1.485	95.1	1.203	-4.894	350.7	455.9	0.992	---	-7.39	1.003	143.8	225.3	-5.1	0.856
4-3060	4-3220	0.400	117.9	30.7	2.73	1.394	93.2	0.943	17.339	353.4	463.5	0.996	---	-7.60	0.866	139.6	226.9	-6.0	0.711
4-3060	4-3240	0.337	112.1	35.8	3.45	1.331	91.5	0.769	4.329	356.6	471.6	0.998	---	-7.87	0.762	134.9	228.4	-7.1	0.598
4-3060	4-3260	0.297	104.9	41.5	4.25	1.286	90.0	0.651	2.865	0.0	120.0	---	---	-8.24	0.685	129.9	229.7	-8.5	0.507
4-3060	4-3280	0.275	96.7	47.4	5.13	1.253	88.7	0.570	2.319	3.5	128.5	---	---	-8.72	0.627	124.6	230.5	-10.4	0.434
4-3060	4-3300	0.266	87.8	53.2	6.16	1.230	87.7	0.513	2.045	6.8	138.9	---	---	-9.34	0.584	119.2	230.9	-12.8	0.375
4-3060	4-3320	0.267	78.6	58.8	7.36	1.213	86.9	0.473	1.886	9.7	144.9	---	---	-10.16	0.554	113.9	230.5	-15.8	0.327
4-3060	4-3340	0.277	68.9	64.3	8.84	1.201	86.3	0.445	1.788	12.1	152.6	---	---	-11.25	0.534	108.7	229.4	-19.8	0.291
4-3060	4-3360	0.296	57.1	70.0	10.72	1.193	85.9	0.426	1.724	13.8	159.6	---	---	-12.76	0.521	103.8	227.2	-24.8	0.266
4-3060	4-3380	0.328	38.7	75.5	13.24	1.187	85.6	0.412	1.683	15.0	166.2	---	---	-14.91	0.514	99.3	223.9	-30.8	0.255
4-3060	4-3400	0.381	2.4	79.0	16.85	1.183	85.5	0.403	1.656	15.7	172.2	---	---	-18.16	0.512	95.2	219.4	-37.6	0.260
4-3060	4-3420	0.472	317.0	76.0	22.57	1.180	85.5	0.397	1.640	15.9	177.8	---	---	-23.51	0.513	91.5	214.2	-44.3	0.293
4-3060	4-3440	0.647	294.4	66.0	32.87	1.179	85.5	0.394	1.631	16.0	183.0	---	2.274	-33.45	0.517	88.1	209.4	-49.2	0.376
4-3060	4-3460	1.019	286.8	48.9	54.81	1.178	85.3	0.393	1.627	16.6	187.9	---	2.267	-55.02	0.523	84.9	207.5	-48.2	0.572
4-3060	4-3500	0.851	66.2	-75.7	-45.01	1.179	88.7	0.388	1.631	4.5	194.5	---	2.265	45.56	0.537	81.1	212.0	49.8	0.496
4-3060	4-3520	0.552	84.9	-61.2	-27.76	1.180	89.1	0.390	1.638	3.4	198.4	---	2.277	28.69	0.544	79.0	209.2	47.6	0.347
4-3060	4-3540	0.406	91.7	-50.0	-19.25	1.181	89.7	0.393	1.646	1.1	201.7	---	2.292	20.58	0.552	77.1	207.0	41.6	0.285
4-3060	4-3560	0.326	97.5	-40.5	-14.31	1.182	90.5	0.397	1.655	358.1	564.8	0.999	2.312	18.05	0.560	75.4	206.3	35.2	0.260
4-3060	4-3580	0.279	103.8	-32.1	-11.06	1.184	91.5	0.401	1.666	354.7	567.5	0.998	2.335	13.23	0.567	73.9	206.9	29.7	0.252
4-3060	4-3600	0.250	110.8	-24.5	-8.73	1.186	92.6	0.407	1.678	350.9	570.0	0.995	2.361	11.34	0.574	72.6	208.6	25.1	0.253
4-3060	4-3620	0.235	118.6	-17.5	-6.95	1.188	93.9	0.414	1.691	346.7	572.2	0.991	2.391	10.02	0.580	71.3	211.1	21.5	0.260
4-3060	4-3640	0.231	126.8	-11.4	-5.52	1.190	95.3	0.422	1.704	342.2	574.1	0.985	2.424	9.08	0.585	70.0	214.2	18.7	0.270
4-3060	4-3660	0.235	135.3	-6.3	-4.31	1.192	96.8	0.432	1.718	337.4	575.8	0.976	2.461	8.39	0.589	68.7	217.9	16.4	0.283
4-3060	4-3680	0.247	143.6	-2.3	-3.27	1.194	98.4	0.444	1.733	332.4	577.2	0.964	2.501	7.89	0.593	67.5	222.0	14.6	0.297
4-3060	4-3700	0.266	151.4	0.7	-2.33	1.196	100.2	0.457	1.747	327.0	578.3	0.948	2.548	7.53	0.596	66.2	226.5	13.2	0.313
4-3060	4-3720	0.292	158.7	2.6	-1.46	1.198	102.1	0.473	1.763	321.5	579.1	0.929	2.596	7.30	0.598	64.8	231.2	12.0	0.331
4-3060	4-3740	0.323	165.3	3.8	-0.64	1.200	104.3	0.491	1.778	315.6	579.7	0.905	2.651	7.17	0.600	63.3	236.2	11.0	0.349
4-3060	4-3760	0.359	171.2	4.3	0.16	1.202	106.6	0.512	1.794	309.6	580.0	0.876	2.712	7.13	0.600	61.6	241.5	10.2	0.369
4-3070	4-3190	0.575	120.5	25.3	1.71	1.578	91.5	1.480	-2.075	357.5	450.5	0.996	---	-7.02	1.132	146.3	225.3	-4.5	0.986
4-3070	4-3210	0.454	115.7	28.9	2.30	1.455	89.9	1.109	-9.164	0.3	98.1	---	---	-7.07	0.956	142.4	226.8	-5.1	0.806
4-3070	4-3230	0.376	109.1	33.1	2.92	1.372	88.3	0.874	7.888	3.6	106.3	---	---	-7.18	0.826	138.0	228.2	-5.9	0.669
4-3070	4-3250	0.328	101.0	37.5	3.57	1.314	86.9	0.719	3.537	7.5	115.1	---	---	-7.35	0.730	133.1	229.5	-7.0	0.561
4-3070	4-3270	0.300	92.2	41.8	4.27	1.273	85.7	0.616	2.574	11.4	124.0	---	---	-7.59	0.657	127.9	230.4	-8.3	0.475
4-3070	4-3290	0.286	83.5	45.6	5.04	1.243	84.7	0.546	2.165	15.2	132.9	---	---	-7.92	0.604	122.5	230.9	-10.0	0.406
4-3070	4-3310	0.282	75.4	49.2	5.89	1.223	83.9	0.498	1.949	18.6	141.4	---	---	-8.35	0.566	116.9	230.8	-12.1	0.350
4-3070	4-3330	0.284	68.2	52.6	6.86	1.208	83.3	0.465	1.821	21.4	149.4	---	---	-8.91	0.540	111.5	230.0	-14.8	0.305
4-3070	4-3350	0.291	61.6	56.3	8.00	1.197	82.9	0.442	1.741	23.5	156.8	---	---	-9.66	0.523	106.4	228.4	-18.1	0.270
4-3070	4-3370	0.302	55.1	60.4	9.39	1.190	82.6	0.427	1.690	24.9	163.6	---	---	-10.66	0.513	101.5	225.8	-22.3	0.245
4-3070	4-3390	0.321	47.6	65.1	11.14	1.185	82.5	0.416	1.657	25.6	169.8	---	---	-12.03	0.508	97.1	222.3	-27.1	0.231
4-3070	4-3410	0.349	36.2	70.2	13.48	1.182	82.6	0.409	1.636	25.8	175.5	---	---	-13.99	0.508	93.1	218.1	-32.5	0.228
4-3070	4-3430	0.394	14.9	74.8	16.79	1.180	82.8	0.404	1.625	25.4	180.6	---	2.281	-16.93	0.511	89.6	213.6	-38.2	0.241
4-3070	4-3450	0.473	338.1	75.5	21.96	1.179	83.0	0.401	1.620	24.6	185.4	---	2.269	-21.73	0.516	86.4	209.7	-43.8	0.276
4-3070	4-3470	0.625	307.5	68.4	31.15	1.179	83.3	0.400	1.619	23.7	189.8	---	2.266	-30.54	0.523	83.6	207.7	-48.4	0.353
4-3070	4-3490	0.955	295.5	53.0	50.66	1.180	83.4	0.400	1.622	23.2	194.0	---	2.272	-49.69	0.531	81.0	209.8	-48.8	0.531
4-3070	4-3530	0.877	55.0	-72.8	-46.30	1.182	87.1	0.394	1.637	10.3	199.7	---	2.282	48.03	0.547	78.1	215.6	48.9	0.528
4-3070	4-3550	0.547	81.8	-58.8	-27.22	1.183	87.6	0.397	1.647	8.6	203.0	---	2.300	29.34	0.555	76.2	211.2	46.5	0.364
4-3070	4-3570	0.393	91.2	-47.0	-18.19	1.185	88.4	0.400	1.658	5.8	206.0	---	2.321	20.70	0.563	74.7	209.2	39.8	0.299
4-3070	4-3590	0.310	98.7	-36.9	-13.07	1.187	89.3	0.404	1.670	2.3	208.6	---	2.344	15.99	0.570	73.3	209.3	33.2	0.275
4-3070	4-3610	0.263	106.3	-28.0	-9.77	1.189	90.5	0.408	1.683	358.4	570.9	0.996	2.371	13.11	0.576	72.1	210.9	27.7	0.268

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3070	4-3630	0.235	114.7	-20.1	-7.43	1.191	91.7	0.414	1.697	354.1	573.0	0.995	2.400	11.21	0.582	70.9	213.4	23.3	0.270
4-3070	4-3650	0.222	123.9	-13.1	-5.65	1.193	93.1	0.421	1.712	349.6	574.8	0.991	2.432	9.89	0.587	69.8	216.6	20.0	0.277
4-3070	4-3670	0.219	133.5	-7.2	-4.23	1.195	94.6	0.429	1.727	344.7	576.4	0.985	2.468	8.94	0.592	68.7	220.4	17.4	0.287
4-3070	4-3690	0.226	143.2	-2.6	-3.04	1.197	96.2	0.439	1.742	339.6	577.7	0.977	2.507	8.26	0.595	67.6	224.6	15.3	0.299
4-3070	4-3710	0.240	152.4	0.7	-2.01	1.200	97.9	0.451	1.758	334.3	578.8	0.965	2.550	7.76	0.598	66.5	229.1	13.7	0.313
4-3070	4-3730	0.262	160.9	2.8	-1.09	1.202	99.8	0.464	1.773	328.7	579.6	0.950	2.597	7.41	0.600	65.2	233.8	12.4	0.328
4-3070	4-3750	0.289	168.5	3.9	-0.24	1.204	101.8	0.480	1.789	322.9	580.2	0.931	2.648	7.18	0.601	63.9	238.8	11.3	0.344
4-3070	4-3770	0.322	175.2	4.3	0.55	1.206	104.0	0.498	1.806	316.9	580.6	0.907	2.705	7.05	0.602	62.5	244.0	10.4	0.361
4-3080	4-3200	0.543	113.3	27.4	2.00	1.535	85.6	1.340	-2.910	7.7	93.1	---	---	-6.69	1.070	145.3	226.5	-4.4	0.925
4-3080	4-3220	0.441	106.3	30.9	2.57	1.423	84.3	1.011	88.322	11.2	101.5	---	---	-6.67	0.905	141.1	227.8	-5.0	0.755
4-3080	4-3240	0.380	98.1	34.4	3.14	1.347	83.1	0.806	5.038	15.4	110.6	---	---	-6.70	0.783	136.5	228.9	-5.8	0.626
4-3080	4-3260	0.346	89.4	37.4	3.74	1.295	82.0	0.673	2.969	19.8	120.0	---	--	-6.77	0.694	131.3	229.8	-6.7	0.524
4-3080	4-3280	0.327	81.2	40.0	4.36	1.258	81.1	0.586	2.324	24.1	129.3	---	---	-6.91	0.627	125.8	230.3	-7.9	0.443
4-3080	4-3300	0.319	74.2	42.2	5.02	1.233	80.4	0.529	2.023	28.0	138.4	---	---	-7.11	0.580	120.2	230.4	-9.4	0.378
4-3080	4-3320	0.317	68.4	44.4	5.74	1.214	79.8	0.490	1.855	31.3	146.8	---	---	-7.39	0.546	114.5	229.8	-11.3	0.326
4-3080	4-3340	0.318	63.7	46.7	6.53	1.202	79.5	0.464	1.755	33.7	154.5	---	---	-7.77	0.524	109.0	228.4	-13.6	0.284
4-3080	4-3360	0.322	59.9	49.3	7.44	1.193	79.3	0.446	1.692	35.3	161.5	---	---	-8.27	0.510	103.8	226.2	-16.5	0.252
4-3080	4-3380	0.328	56.5	52.5	8.50	1.187	79.2	0.434	1.653	36.2	167.9	---	---	-8.94	0.503	99.0	223.1	-19.7	0.228
4-3080	4-3400	0.336	53.0	56.3	9.78	1.183	79.3	0.425	1.628	36.4	173.6	---	---	-9.83	0.502	94.7	219.3	-23.5	0.214
4-3080	4-3420	0.350	48.8	60.8	11.38	1.181	79.6	0.419	1.614	36.0	178.8	---	---	-11.06	0.504	90.9	215.0	-27.5	0.209
4-3080	4-3440	0.372	42.1	66.0	13.51	1.180	79.9	0.415	1.607	35.1	183.5	---	2.275	-12.82	0.508	87.5	210.9	-31.8	0.214
4-3080	4-3460	0.408	28.9	71.6	16.50	1.179	80.3	0.412	1.606	33.7	187.9	---	2.268	-15.45	0.515	84.5	207.5	-36.4	0.230
4-3080	4-3480	0.473	0.0	75.2	21.13	1.180	80.8	0.410	1.609	32.0	191.9	---	2.269	-19.72	0.523	82.0	205.6	-41.3	0.265
4-3080	4-3500	0.603	322.3	71.5	29.31	1.181	81.4	0.409	1.615	30.2	195.6	---	2.277	-27.53	0.531	79.7	206.3	-46.2	0.335
4-3080	4-3520	0.897	304.2	57.7	46.80	1.182	81.8	0.410	1.624	28.7	199.2	---	2.290	-44.66	0.540	77.6	211.7	-48.5	0.495
4-3080	4-3560	0.884	52.0	-68.7	-46.44	1.186	85.6	0.403	1.646	15.4	204.2	---	2.309	49.31	0.557	75.4	220.1	48.0	0.550
4-3080	4-3580	0.528	81.9	-54.9	-25.80	1.188	86.2	0.406	1.659	13.2	207.1	---	2.332	29.05	0.565	73.9	214.2	44.7	0.374
4-3080	4-3600	0.371	93.1	-42.4	-16.52	1.190	87.1	0.409	1.673	9.8	209.5	---	2.357	20.15	0.572	72.6	212.5	37.3	0.310
4-3080	4-3620	0.290	101.8	-31.6	-11.41	1.192	88.3	0.412	1.687	5.9	211.8	---	2.383	15.43	0.579	71.5	213.5	30.5	0.288
4-3080	4-3640	0.245	110.7	-22.2	-8.17	1.194	89.5	0.417	1.703	1.6	213.7	---	2.412	12.59	0.584	70.5	215.8	25.2	0.283
4-3080	4-3660	0.221	120.4	-14.1	-5.90	1.196	90.9	0.422	1.718	356.9	575.5	0.993	2.443	10.74	0.589	69.5	219.1	21.1	0.285
4-3080	4-3680	0.210	130.8	-7.3	-4.18	1.199	92.4	0.429	1.734	352.0	577.0	0.990	2.478	9.46	0.594	68.6	222.9	18.1	0.293
4-3080	4-3700	0.210	141.6	-2.1	-2.82	1.201	94.0	0.437	1.750	346.9	578.3	0.985	2.516	8.54	0.597	67.6	227.1	15.7	0.302
4-3080	4-3720	0.219	152.2	1.6	-1.68	1.203	95.7	0.447	1.767	341.5	579.3	0.977	2.556	7.89	0.599	66.6	231.6	13.9	0.314
4-3080	4-3740	0.236	162.1	3.8	-0.71	1.205	97.5	0.458	1.784	335.9	580.1	0.966	2.601	7.41	0.601	65.6	236.4	12.5	0.326
4-3080	4-3760	0.260	170.8	4.8	0.17	1.208	99.4	0.472	1.800	330.2	580.7	0.951	2.650	7.07	0.602	64.4	241.4	11.3	0.340
4-3080	4-3780	0.289	178.5	4.9	0.96	1.210	101.5	0.487	1.817	324.3	581.1	0.932	2.702	6.85	0.602	63.2	246.6	10.4	0.355
4-3090	4-3210	0.543	104.4	29.1	2.33	1.491	79.4	1.197	-4.867	19.4	97.3	---	---	-6.27	1.005	144.5	227.1	-4.2	0.865
4-3090	4-3230	0.461	96.4	31.9	2.87	1.390	78.6	0.917	11.498	23.9	106.6	---	---	-6.18	0.850	140.0	228.1	-4.8	0.705
4-3090	4-3250	0.414	88.2	34.1	3.41	1.322	77.7	0.745	3.683	28.9	116.5	---	---	-6.13	0.737	135.0	228.9	-5.5	0.583
550																			
4-3090	4-3270	0.389	80.8	35.9	3.95	1.275	77.0	0.637	2.549	33.7	126.4	---	---	-6.13	0.655	129.5	229.4	-6.3	0.488
4-3090	4-3290	0.376	74.7	37.4	4.50	1.243	76.4	0.567	2.112	38.2	135.9	---	---	-6.18	0.595	123.7	229.4	-7.4	0.412
4-3090	4-3310	0.370	69.8	38.8	5.07	1.221	75.9	0.522	1.892	41.8	144.8	---	---	-6.29	0.552	117.7	228.8	-8.8	0.352
4-3090	4-3330	0.367	66.2	40.3	5.68	1.205	75.7	0.492	1.766	44.6	152.8	---	---	-6.45	0.524	111.8	227.6	-10.4	0.304
4-3090	4-3350	0.366	63.4	42.0	6.34	1.195	75.5	0.472	1.690	46.4	159.9	---	---	-6.68	0.506	106.2	225.5	-12.3	0.266
4-3090	4-3370	0.366	61.4	44.0	7.06	1.187	75.6	0.458	1.643	47.4	166.4	---	---	-7.00	0.496	101.0	222.7	-14.5	0.237
4-3090	4-3390	0.366	59.8	46.5	7.89	1.183	75.7	0.448	1.614	47.7	172.1	---	---	-7.44	0.493	96.3	219.1	-17.0	0.217
4-3090	4-3410	0.368	58.4	49.5	8.84	1.180	76.0	0.441	1.598	47.2	177.3	---	---	-8.02	0.494	92.1	215.0	-19.7	0.204
4-3090	4-3430	0.372	57.0	53.2	9.99	1.179	76.4	0.435	1.590	46.3	182.0	---	2.282	-8.80	0.498	88.4	210.9	-22.5	0.199
4-3090	4-3450	0.380	55.1	57.5	11.42	1.179	76.9	0.431	1.588	44.8	186.3	---	2.273	-9.88	0.504	85.2	207.2	-25.4	0.201
4-3090	4-3470	0.394	51.6	62.8	13.31	1.179	77.5	0.427	1.591	42.9	190.3	---	2.272	-11.41	0.513	82.5	204.4	-28.6	0.210
4-3090	4-3490	0.420	44.0	68.8	15.96	1.180	78.2	0.425	1.598	40.7	194.0	---	2.276	-13.72	0.521	80.1	202.9	-32.3	0.228
4-3090	4-3510	0.472	23.9	74.7	20.04	1.182	78.9	0.423	1.607	38.2	197.4	---	2.286	-17.46	0.531	78.1	203.1	-36.9	0.259
4-3090	4-3530	0.580	341.3	75.0	27.23	1.183	79.7	0.421	1.618	35.6	200.5	---	2.300	-24.31	0.540	76.3	205.7	-42.5	0.320
4-3090	4-3550	0.837	313.1	63.1	42.84	1.185	80.3	0.422	1.630	33.2	203.5	---	2.318	-39.58	0.549	74.6	213.4	-47.2	0.460
4-3090	4-3590	0.871	54.4	-64.3	-45.35	1.190	84.2	0.413	1.659	19.9	208.0	---	2.344	49.29	0.566	73.0	225.0	47.1	0.560
4-3090	4-3610	0.495	85.1	-49.9	-23.49	1.192	85.0	0.416	1.674	17.2	210.4	---	2.371	27.79	0.574	71.8	217.8	42.3	0.377
4-3090	4-3630	0.342	97.4	-36.2	-14.28	1.195	86.1	0.419	1.691	13.3	212.6	---	2.398	18.93	0.580	70.8	216.7	34.0	0.318
4-3090	4-3650	0.268	107.0	-24.5	-9.37	1.197	87.3	0.422	1.707	9.0	214.4	---	2.427	14.38	0.586	69.9	218.5	27.2	0.299
4-3090	4-3670	0.229	117.0	-14.7	-6.31	1.199	88.7	0.426	1.724	4.3	216.1	---	2.458	11.68	0.591	69.1	221.5	22.2	0.296
4-3090	4-3690	0.209	127.8	-6.7	-4.18	1.202	90.2	0.431	1.741	359.3	577.5	0.991	2.491	9.94	0.595	68.3	225.3	18.6	0.299
4-3090	4-3710	0.202	139.3	-0.6	-2.59	1.204	91.8	0.437	1.758	354.1	578.7	0.989	2.527	8.74	0.598	67.4	229.6	15.9	0.306
4-3090	4-3730	0.205	151.0	3.5	-1.33	1.206	93.5	0.445	1.776	348.7	579.7	0.985	2.566	7.89	0.600	66.6	234.1	13.9	0.316
4-3090	4-3750	0.217	162.2	5.9	-0.28	1.209	95.2	0.455	1.793	343.2	580.5	0.978	2.609	7.28	0.602	65.7	239.0	12.3	0.326
4-3090	4-3770	0.236	172.3	6.7	0.61	1.211	97.1	0.466	1.811	337.5	581.1	0.967	2.655	6.84	0.603	64.7	243.9	11.1	0.338
4-3090	4-3790	0.261	181.1	6.6	1.41	1.213	99.1	0.479	1.828	331.6	581.5	0.952	2.705	6.52	0.603	63.6	249.1	10.1	0.351
4-3100	4-3220	0.577	96.0	29.9	2.73	1.447	72.9	1.064	14.235	33.2	103.4	---	---	-5.73	0.937	143.9	227.0	-3.9	0.807
4-3100	4-3240	0.510	88.5	31.7	3.24	1.356	72.5	0.836	5.418	38.6	113.7	---	---	-5.58	0.792	139.1	227.6	-4.4	0.657
4-3100	4-3260	0.473	81.8	33.0	3.73	1.296	72.1	0.699	2.902	44.1	124.2	---	---	-5.47	0.688	133.6	228.0	-5.0	0.543
4-3100	4-3280	0.452	76.4	34.1	4.22	1.255	71.7	0.615	2.230	49.0	134.2	---	---	-5.41	0.613	127.6	227.9	-5.8	0.455
4-3100	4-3300	0.440	72.3	35.1	4.70	1.227	71.4	0.562	1.932	53.1	143.4	---	---	-5.39	0.559	121.4	227.3	-6.7	0.385
4-3100	4-3320	0.432	69.3	36.1	5.20	1.208	71.3	0.528	1.774	56.1	151.6	---	---	-5.42	0.523	115.1	226.1	-7.8	0.329
4-3100	4-3340	0.427	67.1	37.3	5.71	1.195	71.3	0.505	1.682	58.0	158.9	---	---	-5.49	0.500	109.0	224.1	-9.1	0.285
4-3100	4-3360	0.422	65.7	38.7	6.25	1.187	71.4	0.490	1.627	59.1	165.3	---	---	-5.62	0.486	103.3	221.3	-10.6	0.252
4-3100	4-3380	0.418	64.9	40.3	6.83	1.182	71.7	0.478	1.594	59.3	171.0	---	---	-5.81	0.481	98.0	217.9	-12.2	0.227
4-3100	4-3400	0.414	64.4	42.3	7.47	1.178	72.1	0.469	1.575	58.9	176.2	---	---	-6.07	0.481	93.4	214.0	-13.9	0.211
4-3100	4-3420	0.411	64.2	44.6	8.18	1.177	72.6	0.462	1.567	57.8	180.8	---	2.291	-6.43	0.485	89.3	210.0	-15.7	0.201
4-3100	4-3440	0.408	64.2	47.4	9.02	1.177	73.1	0.456	1.565	56.3	185.0	---	2.279	-6.92	0.491	85.8	206.3	-17.4	0.197
4-3100	4-3460	0.406	64.3	50.8	10.01	1.177	73.8	0.451	1.568	54.3	188.9	---	2.276	-7.58	0.500	82.8	203.4	-19.2	0.199
4-3100	4-3480	0.407	64.0	54.8	11.25	1.178	74.6	0.447	1.575	52.0	192.5	---	2.279	-8.50	0.509	80.3	201.4	-21.2	0.205

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3100	4-3500	0.414	63.0	59.8	12.87	1.180	75.4	0.443	1.585	49.3	195.8	---	2.287	-9.80	0.520	78.1	200.5	-23.6	0.216
4-3100	4-3520	0.430	59.8	65.9	15.15	1.182	76.3	0.440	1.597	46.4	199.0	---	2.299	-11.77	0.530	76.3	200.9	-26.8	0.233
4-3100	4-3540	0.467	49.1	73.1	18.64	1.184	77.2	0.437	1.610	43.2	201.9	---	2.314	-14.95	0.540	74.7	202.6	-31.2	0.260
4-3100	4-3560	0.552	10.5	78.2	24.80	1.187	78.2	0.435	1.625	39.9	204.6	---	2.332	-20.81	0.550	73.3	206.4	-37.4	0.308
4-3100	4-3580	0.770	323.2	69.5	38.44	1.189	79.1	0.434	1.641	36.8	207.1	---	2.353	-34.15	0.559	72.1	215.0	-44.6	0.425
4-3100	4-3620	0.835	60.2	-59.7	-42.93	1.194	82.9	0.425	1.675	23.9	211.2	---	2.386	47.83	0.575	70.9	229.9	46.2	0.558
4-3100	4-3640	0.448	91.0	-43.6	-20.30	1.197	83.9	0.427	1.693	20.6	213.2	---	2.415	25.52	0.581	70.0	221.8	39.0	0.374
4-3100	4-3660	0.309	103.8	-28.1	-11.53	1.199	85.1	0.429	1.710	16.3	215.0	---	2.444	17.06	0.587	69.2	221.6	30.0	0.323
4-3100	4-3680	0.247	114.4	-15.4	-7.01	1.202	86.5	0.432	1.729	11.6	216.6	---	2.475	12.85	0.592	68.5	224.2	23.4	0.308
4-3100	4-3700	0.216	125.2	-5.5	-4.24	1.205	88.0	0.435	1.747	6.6	217.9	---	2.507	10.40	0.596	67.8	227.8	18.9	0.307
4-3100	4-3720	0.202	137.0	1.8	-2.33	1.207	89.6	0.440	1.765	1.4	219.1	---	2.542	8.83	0.599	67.1	232.1	15.8	0.312
4-3100	4-3740	0.199	149.3	6.6	-0.91	1.209	91.2	0.446	1.784	356.0	580.1	0.988	2.580	7.76	0.601	66.4	236.7	13.5	0.319
4-3100	4-3760	0.205	161.5	9.1	0.20	1.212	93.0	0.454	1.802	350.4	580.9	0.984	2.620	7.00	0.603	65.7	241.5	11.8	0.327
4-3100	4-3780	0.219	172.8	9.9	1.12	1.214	94.8	0.463	1.821	344.7	581.5	0.978	2.664	6.45	0.603	64.8	246.5	10.5	0.337
4-3100	4-3800	0.239	182.7	9.4	1.91	1.216	96.7	0.474	1.839	338.9	581.9	0.967	2.711	6.06	0.603	63.9	251.6	9.5	0.348
4-3110	4-3230	0.642	89.9	29.9	3.21	1.403	66.1	0.952	16.916	49.2	111.7	---	---	-5.06	0.866	143.8	226.0	-3.4	0.755
4-3110	4-3250	0.583	83.9	31.0	3.69	1.322	66.2	0.776	3.578	55.2	122.8	---	---	-4.86	0.732	138.4	226.2	-3.8	0.614
4-3110	4-3270	0.549	79.1	31.9	4.13	1.269	66.2	0.674	2.402	60.7	133.3	---	---	-4.71	0.636	132.3	226.0	-4.4	0.508
4-3110	4-3290	0.528	75.5	32.6	4.56	1.234	66.2	0.612	1.983	65.1	142.7	---	---	-4.60	0.568	125.8	225.3	-5.0	0.426
4-3110	4-3310	0.514	72.9	33.4	4.98	1.211	66.3	0.573	1.781	68.2	151.1	---	---	-4.52	0.522	119.1	224.0	-5.7	0.362
4-3110	4-3330	0.503	71.2	34.2	5.40	1.195	66.5	0.547	1.669	70.2	158.3	---	---	-4.49	0.491	112.3	222.1	-6.6	0.311
4-3110	4-3350	0.494	70.2	35.2	5.82	1.185	66.8	0.529	1.604	71.2	164.7	---	---	-4.50	0.474	105.9	219.4	-7.5	0.273
4-3110	4-3370	0.486	69.8	36.4	6.25	1.179	67.2	0.516	1.567	71.4	170.3	---	---	-4.54	0.465	100.0	216.0	-8.5	0.244
4-3110	4-3390	0.477	69.7	37.7	6.71	1.175	67.7	0.506	1.546	70.8	175.3	---	---	-4.64	0.464	94.8	212.3	-9.6	0.224
4-3110	4-3410	0.469	70.0	39.3	7.19	1.173	68.3	0.497	1.537	69.7	179.8	---	---	-4.78	0.468	90.2	208.4	-10.6	0.212
4-3110	4-3430	0.460	70.5	41.1	7.73	1.173	69.0	0.489	1.535	68.0	183.9	---	2.286	-4.99	0.475	86.3	204.9	-11.6	0.205
4-3110	4-3450	0.452	71.3	43.2	8.32	1.174	69.8	0.483	1.539	66.0	187.6	---	2.281	-5.28	0.484	83.0	202.0	-12.5	0.203
4-3110	4-3470	0.444	72.3	45.7	9.01	1.175	70.6	0.476	1.546	63.6	191.1	---	2.283	-5.67	0.494	80.2	199.9	-13.5	0.206
4-3110	4-3490	0.437	73.4	48.6	9.83	1.177	71.5	0.470	1.557	60.8	194.4	---	2.290	-6.20	0.506	77.9	198.8	-14.6	0.211
4-3110	4-3510	0.431	74.5	52.2	10.85	1.179	72.5	0.465	1.570	57.8	197.5	---	2.301	-6.94	0.517	75.9	198.7	-16.0	0.219
4-3110	4-3530	0.430	75.4	56.7	12.18	1.182	73.5	0.460	1.585	54.5	200.3	---	2.314	-8.01	0.528	74.3	199.6	-17.9	0.230
4-3110	4-3550	0.437	75.6	62.4	14.04	1.184	74.6	0.455	1.602	51.0	203.0	---	2.331	-9.60	0.539	72.9	201.4	-20.6	0.244
4-3110	4-3570	0.459	72.7	69.7	16.90	1.187	75.7	0.452	1.619	47.3	205.5	---	2.350	-12.20	0.549	71.8	204.1	-24.6	0.265
4-3110	4-3590	0.519	53.9	78.4	21.95	1.190	76.9	0.448	1.637	43.4	207.9	---	2.370	-16.99	0.559	70.8	208.4	-30.9	0.301
4-3110	4-3610	0.693	338.7	77.2	33.36	1.193	78.0	0.446	1.655	39.7	210.1	---	2.394	-28.15	0.568	70.0	216.8	-40.2	0.390
4-3110	4-3650	0.773	69.0	-55.1	-38.93	1.199	81.8	0.437	1.693	27.3	213.7	---	2.434	44.68	0.582	69.1	234.3	44.9	0.541
4-3110	4-3670	0.392	99.4	-35.3	-16.25	1.201	82.9	0.439	1.713	23.5	215.5	---	2.464	22.23	0.588	68.4	226.1	34.5	0.365
4-3110	4-3690	0.277	112.6	-17.5	-8.33	1.204	84.3	0.440	1.732	18.8	217.0	---	2.494	14.57	0.593	67.8	227.0	25.1	0.325
4-3110	4-3710	0.230	123.8	-4.4	-4.39	1.207	85.8	0.442	1.752	13.8	218.3	---	2.526	10.90	0.596	67.3	230.4	19.2	0.316
4-3110	4-3730	0.209	135.4	4.7	-2.01	1.209	87.4	0.445	1.771	8.6	219.4	---	2.560	8.79	0.599	66.7	234.6	15.4	0.317
4-3110	4-3750	0.201	147.7	10.5	-0.40	1.212	89.0	0.449	1.791	3.2	220.3	---	2.596	7.46	0.601	66.1	239.2	12.8	0.322
4-3110	4-3770	0.202	160.3	13.5	0.80	1.214	90.7	0.455	1.810	357.6	581.1	0.986	2.634	6.53	0.603	65.5	244.0	10.9	0.329
4-3110	4-3790	0.210	172.5	14.3	1.73	1.217	92.5	0.462	1.830	352.0	581.7	0.984	2.676	5.89	0.603	64.8	249.0	9.6	0.337
4-3110	4-3810	0.224	183.5	13.5	2.50	1.219	94.4	0.471	1.849	346.2	582.1	0.978	2.720	5.42	0.603	64.1	254.1	8.5	0.346
4-3120	4-3260	0.672	82.3	30.3	4.25	1.289	59.6	0.747	2.705	73.2	133.1	---	---	-3.98	0.669	138.1	223.8	-3.1	0.579
4-3120	4-3280	0.637	79.1	31.0	4.64	1.243	60.0	0.674	2.060	77.8	142.8	---	---	-3.80	0.582	131.3	223.0	-3.5	0.480
4-3120	4-3300	0.613	77.0	31.6	5.00	1.213	60.5	0.629	1.790	81.0	151.1	---	---	-3.66	0.521	124.1	221.6	-3.9	0.404
4-3120	4-3320	0.595	75.6	32.3	5.35	1.194	61.0	0.600	1.653	82.9	158.3	---	---	-3.58	0.482	116.6	219.6	-4.4	0.346
4-3120	4-3340	0.580	74.9	33.0	5.68	1.182	61.6	0.579	1.576	83.7	164.4	---	---	-3.49	0.458	109.4	217.0	-5.0	0.301
4-3120	4-3360	0.566	74.7	33.8	6.01	1.174	62.2	0.564	1.533	83.7	169.8	---	---	-3.45	0.446	102.6	213.7	-5.6	0.268
4-3120	4-3380	0.554	74.9	34.8	6.35	1.170	62.9	0.551	1.510	83.0	174.6	---	---	-3.45	0.443	96.6	210.1	-6.2	0.245
4-3120	4-3400	0.541	75.4	35.8	6.68	1.168	63.6	0.540	1.500	81.7	178.9	---	---	-3.47	0.446	91.3	206.5	-6.8	0.229
4-3120	4-3420	0.528	76.2	37.1	7.04	1.168	64.5	0.531	1.499	79.9	182.8	---	2.294	-3.53	0.454	86.8	203.1	-7.3	0.220
4-3120	4-3440	0.515	77.3	38.4	7.41	1.168	65.3	0.522	1.503	77.7	186.4	---	2.287	-3.64	0.464	83.1	200.3	-7.8	0.216
4-3120	4-3460	0.502	78.6	40.0	7.82	1.170	66.3	0.513	1.512	75.2	189.8	---	2.288	-3.79	0.476	80.0	198.3	-8.2	0.216
4-3120	4-3480	0.488	80.0	41.8	8.28	1.172	67.3	0.505	1.524	72.4	193.0	---	2.294	-4.00	0.488	77.4	197.2	-8.7	0.219
4-3120	4-3500	0.475	81.7	43.9	8.81	1.175	68.4	0.497	1.539	69.3	195.9	---	2.304	-4.29	0.501	75.3	197.1	-9.3	0.225
4-3120	4-3520	0.463	83.6	46.3	9.44	1.178	69.5	0.490	1.555	66.0	198.8	---	2.318	-4.69	0.514	73.6	197.7	-10.0	0.232
4-3120	4-3540	0.452	85.8	49.3	10.21	1.181	70.7	0.483	1.573	62.5	201.4	---	2.333	-5.25	0.526	72.2	199.2	-11.0	0.240
4-3120	4-3560	0.444	88.1	53.0	11.23	1.184	71.9	0.477	1.592	58.7	203.9	---	2.351	-6.05	0.538	71.0	201.3	-12.4	0.249
4-3120	4-3580	0.441	90.4	57.8	12.64	1.187	73.2	0.471	1.611	54.7	206.3	---	2.370	-7.26	0.549	70.1	204.0	-14.5	0.260
4-3120	4-3600	0.449	92.4	64.2	14.80	1.191	74.5	0.466	1.631	50.6	208.5	---	2.392	-9.21	0.559	69.3	207.5	-17.7	0.275
4-3120	4-3620	0.483	91.1	73.3	18.63	1.194	75.8	0.462	1.652	46.3	210.6	---	2.414	-12.84	0.567	68.7	211.9	-23.2	0.298
4-3120	4-3640	0.604	34.7	84.2	27.44	1.197	77.1	0.459	1.672	42.0	212.5	---	2.439	-21.45	0.575	68.1	219.1	-33.2	0.357
4-3120	4-3660	1.172	330.2	59.1	62.53	1.200	78.2	0.458	1.693	38.5	214.3	---	2.469	-56.35	0.582	67.4	241.4	-43.6	0.649
4-3120	4-3680	0.676	80.9	-49.7	-32.92	1.203	80.7	0.450	1.714	30.3	215.8	---	2.485	39.29	0.588	67.5	237.7	42.8	0.506
4-3120	4-3700	0.332	110.4	-23.5	-11.36	1.206	82.0	0.450	1.735	26.0	217.2	---	2.516	17.93	0.593	67.0	230.7	28.4	0.353
4-3120	4-3720	0.252	123.6	-3.9	-4.74	1.209	83.5	0.451	1.756	21.0	218.5	---	2.547	11.51	0.596	66.6	233.0	19.5	0.327
4-3120	4-3740	0.224	135.2	8.1	-1.57	1.211	85.1	0.452	1.777	15.7	219.6	---	2.580	8.54	0.599	66.1	237.1	14.6	0.324
4-3120	4-3760	0.211	147.2	15.1	0.31	1.214	86.8	0.455	1.797	10.3	220.5	---	2.615	6.86	0.601	65.7	241.7	11.6	0.327
4-3120	4-3780	0.207	159.6	18.6	1.58	1.217	88.5	0.459	1.818	4.8	221.3	---	2.652	5.80	0.603	65.2	246.5	9.6	0.332
4-3120	4-3800	0.210	171.9	19.6	2.51	1.219	90.3	0.464	1.838	359.2	581.9	0.985	2.691	5.08	0.603	64.7	251.5	8.2	0.339
4-3120	4-3820	0.218	183.5	18.6	3.23	1.222	92.1	0.471	1.858	353.5	582.3	0.983	2.733	4.58	0.603	64.1	256.6	7.2	0.346
4-3130	4-3270	0.772	83.1	29.8	4.99	1.257	52.7	0.749	2.204	91.3	143.6	---	---	-2.89	0.606	138.2	220.3	-2.1	0.553
4-3130	4-3290	0.732	81.2	30.3	5.29	1.217	53.7	0.698	1.815	94.3	151.8	---	---	-2.72	0.526	130.6	218.9	-2.4	0.461
4-3130	4-3310	0.703	80.2	30.9	5.57	1.192	54.6	0.664	1.638	96.0	158.6	---	---	-2.58	0.472	122.4	216.9	-2.6	0.391
4-3130	4-3330	0.680	79.7	31.5	5.83	1.177	55.5	0.640	1.545	96.6	164.5	---	---	-2.47	0.440	114.1	214.3	-2.9	0.339
4-3130	4-3350	0.660	79.8	32.1	6.07	1.168	56.5	0.622	1.495	96.3	169.5	---	---	-2.39	0.423	106.2	211.2	-3.2	0.300
4-3130	4-3370	0.642	80.2	32.8	6.30	1.163	57.4	0.606	1.469	95.3	174.0	---	---	-2.34	0.417	99.0	207.8	-3.5	0.273
4-3130	4-3390	0.624	80.9	33.6	6.53	1.160	58.4	0.593	1.458	93.8	178.1	---	---	-2.30	0.420	92.8	204.4	-3.8	0.254

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

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DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3160	4-3300	1.093	93.7	28.6	9.54	1.174	30.9	0.877	1.529	I37.0	166.7	---	---	2.94	0.420	144.0	207.5	1.3	0.555
4-3160	4-3320	1.033	94.5	29.0	9.07	1.149	33.7	0.849	1.403	135.1	178.0	---	---	2.54	0.352	I31.9	205.0	1.4	0.478
4-3160	4-3340	0.985	95.5	29.3	8.70	1.135	36.1	0.823	1.344	132.8	173.0	---	---	2.25	0.316	I18.6	202.3	1.5	0.424
4-3160	4-3360	0.944	96.8	29.5	8.40	1.129	38.4	0.800	1.319	130.3	175.9	---	---	2.03	0.305	105.7	199.5	1.5	0.385
4-3160	4-3380	0.909	98.2	29.8	8.15	1.127	40.4	0.778	1.312	127.5	178.7	---	---	1.87	0.310	94.6	197.0	1.6	0.358
4-3160	4-3400	0.876	99.7	30.1	7.94	1.128	42.4	0.757	1.316	124.6	181.3	---	2.312	1.74	0.325	85.8	194.9	1.7	0.340
4-3160	4-3420	0.845	101.4	30.3	7.74	1.131	44.3	0.738	1.327	121.5	183.9	---	2.308	1.64	0.346	79.1	193.4	1.7	0.329
4-3160	4-3440	0.815	103.2	30.5	7.56	1.135	46.2	0.719	1.343	I18.2	186.5	---	2.309	1.57	0.369	74.2	192.5	1.7	0.323
4-3160	4-3460	0.786	105.0	30.7	7.40	1.140	48.0	0.700	1.363	114.8	189.0	---	2.317	1.51	0.392	70.5	192.3	1.7	0.320
4-3160	4-3480	0.758	106.9	30.9	7.24	1.145	49.8	0.682	1.385	111.2	191.4	---	2.331	1.48	0.416	67.9	192.8	1.8	0.319
4-3160	4-3500	0.730	108.9	31.1	7.08	1.150	51.6	0.665	1.409	107.6	193.8	---	2.347	1.46	0.438	65.9	194.0	1.8	0.320
4-3160	4-3520	0.702	111.0	31.3	6.92	1.156	53.3	0.648	1.435	103.8	196.1	---	2.365	1.46	0.458	64.5	195.7	1.9	0.321
4-3160	4-3540	0.674	113.2	31.4	6.76	1.161	55.1	0.632	1.461	99.8	198.4	---	2.385	1.47	0.478	63.5	198.0	1.9	0.324
4-3160	4-3560	0.646	115.5	31.5	6.59	1.167	56.8	0.616	1.488	95.7	200.7	---	2.406	1.50	0.496	62.8	200.7	2.0	0.327
4-3160	4-3580	0.618	117.9	31.6	6.42	1.172	58.6	0.601	1.516	91.5	202.9	---	2.427	1.56	0.512	62.3	203.8	2.1	0.330
4-3160	4-3600	0.590	120.4	31.6	6.22	1.177	60.3	0.587	1.544	87.2	205.0	---	2.450	1.64	0.526	62.1	207.2	2.3	0.333
4-3160	4-3620	0.561	123.1	31.5	5.99	1.182	62.0	0.574	1.572	82.8	207.0	---	2.473	1.76	0.540	62.0	210.9	2.5	0.336
4-3160	4-3640	0.533	125.8	31.2	5.73	1.187	63.8	0.561	1.599	78.2	208.9	---	2.498	1.92	0.551	61.9	214.9	2.8	0.338
4-3160	4-3660	0.504	128.8	30.8	5.41	1.191	65.5	0.549	1.627	73.5	210.8	---	2.521	2.14	0.561	62.0	219.1	3.1	0.341
4-3160	4-3680	0.476	131.8	30.0	5.00	1.195	67.2	0.538	1.655	68.8	212.5	---	2.546	2.48	0.570	62.1	223.5	3.6	0.344
4-3160	4-3700	0.447	135.0	28.7	4.44	1.199	69.0	0.528	1.682	63.9	214.1	---	2.571	2.93	0.577	62.2	228.1	4.3	0.346
4-3160	4-3720	0.417	138.1	26.5	3.61	1.203	70.7	0.520	1.709	58.9	215.6	---	2.597	3.68	0.583	62.4	232.8	5.4	0.349
4-3160	4-3740	0.387	140.9	22.1	2.19	1.207	72.4	0.512	1.736	53.8	216.9	---	2.625	5.01	0.588	62.5	237.7	7.4	0.353
4-3160	4-3760	0.360	141.9	12.1	-0.86	1.211	74.1	0.505	1.762	48.6	218.1	---	2.653	7.97	0.592	62.6	243.0	11.7	0.361
4-3160	4-3780	0.410	130.7	-21.6	-12.43	1.214	75.8	0.500	1.788	43.5	219.2	---	2.683	19.47	0.595	62.7	251.3	25.6	0.408
4-3160	4-3800	0.833	267.8	86.3	41.23	1.217	77.8	0.495	1.814	37.5	220.1	---	2.711	-34.27	0.597	62.8	263.8	-36.5	0.503
4-3160	4-3820	0.432	182.6	60.1	16.84	1.220	79.4	0.493	1.839	32.5	220.9	---	2.745	-9.96	0.598	62.8	258.3	-14.4	0.371
4-3160	4-3840	0.361	184.7	50.8	12.63	1.223	81.1	0.491	1.863	27.1	221.6	---	2.778	-5.83	0.599	62.7	262.6	-8.6	0.362
4-3160	4-3860	0.326	190.4	45.4	10.89	1.226	82.9	0.491	1.887	21.7	222.2	---	2.814	-4.17	0.599	62.6	267.5	-6.1	0.362
4-3170	4-3310	1.200	98.8	28.2	13.13	1.154	23.4	0.926	1.428	148.9	171.2	---	---	7.03	0.365	149.0	204.0	2.3	0.583
4-3170	4-3330	1.133	100.2	28.4	11.73	1.131	26.8	0.900	1.329	145.8	173.3	---	---	5.76	0.296	I34.7	201.5	2.4	0.509
4-3170	4-3350	1.078	101.7	28.5	10.74	1.119	29.7	0.876	1.285	142.6	175.5	---	---	4.90	0.263	118.2	199.0	2.5	0.456
4-3170	4-3370	1.032	103.3	28.7	9.99	1.115	32.4	0.852	1.269	I39.5	177.8	---	---	4.29	0.258	I02.5	196.6	2.6	0.419
4-3170	4-3390	0.991	105.0	28.8	9.39	1.115	34.9	0.830	1.268	136.2	180.1	---	2.320	3.84	0.271	89.6	194.6	2.6	0.394
4-3170	4-3410	0.954	106.8	28.9	8.89	1.117	37.3	0.808	1.277	I32.8	182.4	---	2.309	3.50	0.294	80.2	193.1	2.7	0.377
4-3170	4-3430	0.919	108.7	29.0	8.47	1.121	39.5	0.786	1.292	129.4	184.7	---	2.309	3.24	0.321	73.6	192.2	2.7	0.366
4-3170	4-3450	0.885	110.6	29.0	8.09	1.127	41.6	0.765	1.312	I25.8	186.9	---	2.317	3.04	0.349	68.9	192.0	2.8	0.359
4-3170	4-3470	0.853	112.6	29.0	7.75	1.132	43.7	0.745	1.335	I22.2	189.2	---	2.330	2.89	0.377	65.7	192.4	2.8	0.355
4-3170	4-3490	0.821	114.6	29.0	7.43	1.138	45.7	0.725	1.360	118.4	191.5	---	2.348	2.78	0.403	63.4	193.5	2.8	0.354
4-3170	4-3510	0.790	116.6	29.0	7.13	1.144	47.7	0.706	1.386	114.6	193.8	---	2.365	2.71	0.428	61.8	195.1	2.9	0.353
4-3170	4-3530	0.759	118.7	28.9	6.83	1.151	49.7	0.687	1.414	I10.6	196.0	---	2.388	2.67	0.450	60.8	197.2	3.0	0.354
4-3170	4-3550	0.728	120.9	28.7	6.54	1.157	51.6	0.669	1.442	106.6	198.2	---	2.408	2.68	0.471	60.1	199.8	3.1	0.355
4-3170	4-3570	0.698	123.1	28.5	6.24	1.163	53.5	0.652	1.471	102.4	200.4	---	2.430	2.69	0.490	59.7	202.7	3.2	0.357
4-3170	4-3590	0.667	125.4	28.3	5.93	1.168	55.4	0.635	1.501	98.1	202.5	---	2.453	2.75	0.507	59.5	206.1	3.4	0.358
4-3170	4-3610	0.636	127.8	27.9	5.60	1.174	57.2	0.619	1.530	93.7	204.6	---	2.477	2.86	0.522	59.5	209.7	3.6	0.360
4-3170	4-3630	0.606	130.2	27.4	5.24	1.179	59.1	0.603	1.560	89.3	206.6	---	2.501	3.00	0.536	59.6	213.6	3.8	0.361
4-3170	4-3650	0.575	132.7	26.7	4.83	1.184	60.9	0.589	1.590	84.7	208.5	---	2.526	3.21	0.548	59.8	217.7	4.2	0.363
4-3170	4-3670	0.545	135.3	25.8	4.36	1.189	62.8	0.575	1.619	80.0	210.3	---	2.551	3.49	0.558	60.0	222.0	4.6	0.364
4-3170	4-3690	0.514	137.9	24.5	3.78	1.194	64.6	0.563	1.648	75.2	212.0	---	2.576	3.89	0.567	60.3	226.5	5.3	0.365
4-3170	4-3710	0.484	140.6	22.7	3.04	1.198	66.4	0.551	1.677	70.3	213.6	---	2.602	4.46	0.575	60.6	231.1	6.1	0.367
4-3170	4-3730	0.453	143.1	19.9	2.05	1.202	68.2	0.541	1.706	65.3	215.1	---	2.628	5.29	0.581	60.9	235.9	7.3	0.369
4-3170	4-3750	0.424	145.2	15.6	0.59	1.206	69.9	0.532	1.734	60.3	216.4	---	2.656	6.59	0.586	61.1	240.9	9.1	0.371
4-3170	4-3770	0.398	146.2	8.0	-1.82	1.210	71.7	0.523	1.762	55.2	217.6	---	2.684	8.85	0.590	61.4	246.1	12.2	0.377
4-3170	4-3790	0.391	143.7	-7.1	-6.71	1.213	73.4	0.517	1.789	50.1	218.7	---	2.713	13.59	0.593	61.6	252.1	18.2	0.393
4-3170	4-3810	0.541	123.8	-36.5	-21.94	1.217	75.0	0.512	1.815	45.2	219.7	---	2.745	28.67	0.595	61.7	263.3	32.1	0.472
4-3170	4-3850	0.586	202.9	70.3	26.55	1.223	79.0	0.502	1.867	33.5	221.3	---	2.804	-20.10	0.597	62.0	269.5	-25.5	0.421
4-3170	4-3870	0.438	199.2	57.2	17.78	1.226	80.6	0.500	1.892	28.4	221.9	---	2.839	-11.47	0.597	62.0	271.6	-15.8	0.385
4-3180	4-3320	1.306	104.4	27.6	20.20	1.137	16.0	0.964	1.360	159.5	174.6	---	---	14.64	0.319	156.1	201.4	3.0	0.623
4-3180	4-3340	1.230	106.2	27.6	16.33	1.115	19.9	0.944	1.275	155.4	175.8	---	---	10.95	0.244	139.7	199.1	3.1	0.549
4-3180	4-3360	1.170	108.1	27.6	13.96	1.105	23.4	0.922	1.239	151.6	177.3	---	---	8.76	0.210	I18.9	196.9	3.2	0.497
4-3180	4-3380	1.118	110.0	27.6	12.34	1.102	26.5	0.899	1.228	147.9	179.0	---	---	7.33	0.211	98.8	194.9	3.3	0.460
4-3180	4-3400	1.072	112.0	27.6	11.14	1.103	29.4	0.877	1.232	I44.2	180.9	---	2.312	6.34	0.233	83.7	193.4	3.4	0.435
4-3180	4-3420	1.030	114.0	27.5	10.21	1.107	32.1	0.854	1.244	140.5	182.9	---	2.307	5.62	0.264	73.8	192.5	3.4	0.417
4-3180	4-3440	0.992	116.0	27.4	9.45	1.112	34.6	0.832	1.262	136.8	184.9	---	2.313	5.08	0.297	67.3	192.2	3.4	0.406
4-3180	4-3460	0.955	118.0	27.3	8.80	1.118	37.1	0.810	1.285	133.0	187.0	---	2.325	4.68	0.330	63.2	192.5	3.5	0.398
4-3180	4-3480	0.919	120.1	27.1	8.24	1.125	39.4	0.789	1.309	129.2	189.2	---	2.342	4.37	0.362	60.5	193.4	3.5	0.393
4-3180	4-3500	0.884	122.1	26.9	7.73	1.131	41.6	0.767	1.336	125.2	191.3	---	2.362	4.14	0.391	58.7	194.8	3.5	0.391
4-3180	4-3520	0.850	124.2	26.6	7.27	1.138	43.8	0.747	1.365	121.3	193.5	---	2.384	3.97	0.418	57.6	196.8	3.6	0.389
4-3180	4-3540	0.817	126.3	26.3	6.82	1.145	46.0	0.726	1.394	117.2	195.6	---	2.407	3.86	0.442	56.9	199.2	3.7	0.388
4-3180	4-3560	0.783	128.5	26.0	6.40	1.152	48.1	0.706	1.424	113.0	197.8	---	2.431	3.80	0.464	56.6	202.0	3.8	0.388
4-3180	4-3580	0.750	130.6	25.5	5.98	1.158	50.1	0.687	1.455	108.8	199.9	---	2.455	3.79	0.484	56.5	205.2	3.9	0.388
4-3180	4-3600	0.718	132.8	25.0	5.55	1.164	52.1	0.669	1.486	I04.5	202.0	---	2.480	3.82	0.502	56.6	208.7	4.1	0.388
4-3180	4-3620	0.685	135.1	24.4	5.11	1.170	54.1	0.651	1.517	100.0	204.0	---	2.505	3.90	0.518	56.8	212.5	4.4	0.388
4-3180	4-3640	0.653	137.3	23.6	4.63	1.176	56.1	0.634	1.548	95.5	206.0	---	2.530	4.04	0.532	57.1	216.5	4.7	0.388
4-3180	4-3660	0.620	139.6	22.7	4.12	1.181	58.0	0.618	1.580	90.9	207.9	---	2.555	4.25	0.544	57.5	220.7	5.0	0.388
4-3180	4-3680	0.588	141.9	21.5	3.54	1.186	60.0	0.603	1.610	86.2	209.7	---	2.581	4.54	0.555	57.9	225.0	5.5	0.388
4-3180	4-3700	0.556	144.2	20.0	2.87	1.191	61.9	0.589	1.641	81.4	211.4	---	2.607	4.94	0.564	58.4	229.6	6.1	0.388
4-3180	4-3720	0.525	146.5	17.9	2.07	1.196	63.7	0.575	1.671	76.6	213.0	---	2.633	5.49	0.572	58.8	234.3	6.9	0.388
4-3180	4-3740	0.494	148.6	15.2	1.05	1.200	65.6	0.564	1.701	71.6	214.4	---	2.660	6.27	0.578	59.2	239.1	8.0	0.388
4-3180	4-3760	0.464	150.4	11.3	-0.31	1.204	67.4	0.553	1.731	66.7	215.8	---	2.687	7.39	0.583	59.6	244.0	9.6	0.389

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3420	4-3620	0.740	187.3	-12.4	-6.41	1.236	127.2	0.737	2.125	267.6	498.3	0.558	---	9.21	0.676	137.5	319.9	7.3	0.578
4-3420	4-3640	0.675	187.7	-11.5	-5.17	1.199	124.9	0.676	1.784	267.4	504.4	0.578	---	8.48	0.607	131.1	320.7	8.0	0.486
4-3420	4-3660	0.628	188.1	-10.5	-4.10	1.174	123.1	0.631	1.610	267.1	510.6	0.593	---	7.95	0.555	124.6	320.4	8.8	0.413
4-3420	4-3680	0.597	188.8	-9.4	-3.15	1.156	121.9	0.601	1.511	266.7	516.6	0.603	---	7.57	0.517	118.0	318.6	9.7	0.355
4-3420	4-3700	0.577	189.5	-8.3	-2.27	1.145	121.2	0.582	1.451	266.1	522.5	0.607	---	7.32	0.488	111.5	315.4	10.7	0.313
4-3420	4-3720	0.568	190.4	-7.2	-1.44	1.137	120.9	0.572	1.415	265.2	528.0	0.606	---	7.17	0.468	105.1	310.7	11.4	0.285
4-3420	4-3740	0.569	191.5	-6.1	-0.64	1.132	121.1	0.571	1.394	264.0	533.2	0.599	---	7.11	0.452	98.9	305.3	11.8	0.272
4-3420	4-3760	0.579	192.8	-5.2	0.16	1.130	121.8	0.577	1.383	262.3	537.9	0.586	---	7.15	0.442	92.8	300.1	11.7	0.271
4-3420	4-3780	0.597	194.2	-4.4	0.96	1.129	122.8	0.589	1.380	260.3	542.1	0.567	2.192	7.27	0.434	87.0	296.0	11.3	0.281
4-3420	4-3800	0.624	195.9	-3.9	1.79	1.129	124.3	0.608	1.381	257.7	545.8	0.542	2.221	7.48	0.429	81.2	293.4	10.6	0.300
4-3420	4-3820	0.658	197.7	-3.5	2.67	1.131	126.2	0.632	1.387	254.7	548.8	0.511	2.264	7.80	0.425	75.5	292.6	9.9	0.325
4-3420	4-3840	0.700	199.7	-3.3	3.62	1.133	128.5	0.661	1.396	251.1	551.3	0.473	2.319	8.23	0.423	69.8	293.2	9.2	0.356
4-3420	4-3860	0.750	201.8	-3.4	4.68	1.135	131.3	0.694	1.408	247.0	553.1	0.430	2.385	8.82	0.422	64.0	295.1	8.6	0.390
4-3420	4-3880	0.808	204.1	-3.7	5.90	1.138	134.4	0.732	1.422	242.4	554.3	0.382	2.462	9.58	0.422	58.2	298.0	8.0	0.428
4-3420	4-3900	0.873	206.6	-4.1	7.33	1.142	138.1	0.771	1.438	237.2	554.9	0.329	2.547	10.59	0.422	52.1	301.8	7.5	0.468
4-3420	4-3920	0.946	209.3	-4.8	9.09	1.146	142.2	0.813	1.456	231.5	554.8	0.273	2.639	11.95	0.424	46.0	306.4	7.1	0.511
4-3420	4-3940	1.025	212.1	-5.6	11.32	1.150	146.7	0.854	1.476	225.3	554.1	0.216	2.735	13.80	0.426	39.6	311.5	6.7	0.555
4-3420	4-3960	1.109	215.1	-6.5	14.33	1.154	151.5	0.893	1.497	218.7	552.8	0.160	2.834	16.45	0.429	33.2	317.1	6.4	0.600
4-3420	4-3980	1.198	218.2	-7.6	18.66	1.158	156.6	0.928	1.520	211.8	551.0	0.110	2.931	20.43	0.432	26.7	323.1	6.0	0.646
4-3430	4-3630	0.715	194.2	-16.4	-6.70	1.244	125.4	0.730	2.190	272.0	498.0	0.591	---	10.24	0.687	136.9	324.0	8.3	0.575
4-3430	4-3650	0.649	194.7	-15.1	-5.21	1.208	123.1	0.666	1.830	271.8	502.3	0.612	---	9.22	0.619	130.7	325.1	9.0	0.483
4-3430	4-3670	0.602	195.2	-13.7	-3.96	1.182	121.3	0.620	1.647	271.6	508.5	0.627	---	8.48	0.588	124.4	325.0	9.7	0.409
4-3430	4-3690	0.570	195.9	-12.3	-2.89	1.165	120.1	0.587	1.543	271.3	514.7	0.637	---	7.95	0.530	118.2	323.6	10.6	0.352
4-3430	4-3710	0.549	196.7	-10.9	-1.94	1.153	119.3	0.566	1.480	270.8	520.6	0.642	---	7.57	0.501	112.0	320.6	11.4	0.308
4-3430	4-3730	0.539	197.6	-9.6	-1.06	1.145	119.0	0.555	1.442	270.1	526.2	0.642	---	7.31	0.480	106.0	316.3	12.2	0.279
4-3430	4-3750	0.539	198.7	-8.4	-0.24	1.140	119.1	0.552	1.420	269.0	531.5	0.636	---	7.16	0.464	100.2	311.0	12.5	0.263
4-3430	4-3770	0.546	200.0	-7.4	0.55	1.138	119.6	0.556	1.408	267.5	536.3	0.626	---	7.10	0.453	94.6	305.8	12.5	0.259
4-3430	4-3790	0.562	201.4	-6.5	1.33	1.137	120.5	0.566	1.403	265.6	540.7	0.610	2.197	7.13	0.445	89.1	301.4	12.0	0.265
4-3430	4-3810	0.584	202.9	-5.8	2.11	1.137	121.8	0.581	1.404	263.3	544.5	0.588	2.220	7.24	0.439	83.8	298.5	11.3	0.280
4-3430	4-3830	0.614	204.7	-5.4	2.92	1.138	123.4	0.602	1.409	260.5	547.8	0.561	2.258	7.44	0.434	78.5	297.2	10.5	0.302
4-3430	4-3850	0.651	206.5	-5.2	3.77	1.140	125.4	0.628	1.417	257.2	550.5	0.528	2.307	7.73	0.431	73.3	297.3	9.7	0.328
4-3430	4-3870	0.695	208.5	-5.2	4.69	1.142	127.8	0.657	1.428	253.5	552.7	0.489	2.367	8.14	0.429	68.1	298.8	9.0	0.359
4-3430	4-3890	0.745	210.7	-5.4	5.70	1.145	130.5	0.691	1.441	249.3	554.3	0.446	2.436	8.68	0.428	62.8	301.3	8.4	0.392
4-3430	4-3910	0.803	213.0	-5.8	6.84	1.148	133.7	0.727	1.456	244.6	555.3	0.397	2.515	9.38	0.428	57.3	304.6	7.9	0.427
4-3430	4-3930	0.867	215.4	-6.3	8.17	1.152	137.2	0.766	1.473	239.4	555.7	0.345	2.601	10.30	0.429	51.7	308.6	7.4	0.465
4-3430	4-3950	0.937	218.0	-7.0	9.78	1.155	141.1	0.806	1.491	233.8	555.5	0.289	2.692	11.51	0.430	46.0	313.3	7.0	0.505
4-3430	4-3970	1.013	220.7	-7.8	11.79	1.159	145.4	0.846	1.511	227.7	554.8	0.233	2.788	13.14	0.431	40.1	318.4	6.7	0.545
4-3430	4-3990	1.094	223.6	-8.7	14.42	1.163	150.1	0.884	1.532	221.3	553.6	0.178	2.886	15.42	0.434	34.1	324.0	6.3	0.587
4-3430	4-4010	1.179	226.6	-9.7	18.07	1.167	154.9	0.918	1.555	214.6	552.0	0.127	2.983	18.73	0.437	28.1	329.9	6.0	0.629
4-3440	4-3640	0.689	201.1	-20.6	-7.16	1.252	123.6	0.723	2.250	276.5	493.8	0.624	---	11.37	0.696	136.2	328.1	9.6	0.571
4-3440	4-3660	0.623	201.7	-18.7	-5.31	1.215	121.3	0.656	1.874	276.4	500.2	0.645	---	9.96	0.629	130.3	329.3	10.0	0.479
4-3440	4-3680	0.576	202.4	-16.8	-3.85	1.190	119.5	0.608	1.683	276.3	506.5	0.660	---	8.96	0.579	124.2	329.5	10.6	0.405
4-3440	4-3700	0.543	203.1	-15.1	-2.64	1.173	118.3	0.574	1.575	276.1	512.7	0.671	---	8.24	0.541	118.2	328.3	11.3	0.347
4-3440	4-3720	0.522	204.0	-13.4	-1.60	1.161	117.5	0.552	1.509	275.7	518.8	0.676	---	7.71	0.513	112.4	325.7	12.1	0.303
4-3440	4-3740	0.511	204.9	-11.8	-0.68	1.153	117.1	0.539	1.469	275.1	524.5	0.677	---	7.34	0.491	106.7	321.6	12.8	0.272
4-3440	4-3760	0.509	206.0	-10.4	0.16	1.148	117.2	0.534	1.445	274.1	529.8	0.673	---	7.09	0.476	101.2	316.5	13.1	0.254
4-3440	4-3780	0.515	207.3	-9.2	0.95	1.146	117.6	0.536	1.432	272.7	534.8	0.664	---	6.94	0.464	96.0	311.3	13.0	0.248
4-3440	4-3800	0.528	208.6	-8.3	1.70	1.145	118.3	0.544	1.427	271.0	539.3	0.650	---	6.87	0.455	90.9	306.7	12.5	0.251
4-3440	4-3820	0.548	210.1	-7.5	2.44	1.145	119.4	0.557	1.427	268.9	543.2	0.632	2.223	6.89	0.448	86.0	303.5	11.8	0.263
4-3440	4-3840	0.574	211.8	-7.1	3.18	1.145	120.8	0.575	1.431	266.3	546.7	0.608	2.255	6.99	0.443	81.1	301.8	10.9	0.281
4-3440	4-3860	0.606	213.5	-6.8	3.94	1.147	122.5	0.598	1.439	263.3	549.6	0.579	2.299	7.16	0.440	76.3	301.6	10.1	0.304
4-3440	4-3880	0.645	215.4	-6.7	4.74	1.149	124.6	0.624	1.449	259.8	552.1	0.545	2.353	7.43	0.437	71.5	302.6	9.3	0.331
4-3440	4-3900	0.689	217.4	-6.9	5.59	1.152	127.0	0.654	1.461	256.0	553.9	0.506	2.416	7.79	0.435	66.7	304.7	8.7	0.360
4-3440	4-3920	0.739	219.5	-7.2	6.51	1.154	129.7	0.686	1.475	251.7	555.3	0.463	2.488	8.26	0.434	61.8	307.6	8.1	0.391
4-3440	4-3940	0.795	221.8	-7.7	7.55	1.158	132.8	0.722	1.491	247.0	556.2	0.415	2.567	8.88	0.434	56.8	311.2	7.6	0.424
4-3440	4-3960	0.858	224.2	-8.3	8.75	1.161	136.2	0.759	1.508	241.9	556.5	0.363	2.653	9.68	0.434	51.6	315.4	7.2	0.459
4-3440	4-3980	0.925	226.7	-9.0	10.16	1.164	140.0	0.798	1.526	236.3	556.3	0.309	2.744	10.72	0.435	46.3	320.1	6.8	0.496
4-3440	4-4000	0.998	229.3	-9.8	11.90	1.168	144.1	0.836	1.546	230.4	555.6	0.253	2.839	12.10	0.437	40.8	325.2	6.4	0.533
4-3440	4-4020	1.075	232.1	-10.7	14.12	1.172	148.5	0.873	1.567	224.2	554.5	0.198	2.936	13.98	0.439	35.2	330.7	6.1	0.572
4-3440	4-4040	1.156	235.0	-11.6	17.11	1.175	153.1	0.908	1.589	217.6	552.9	0.147	3.032	16.64	0.442	29.6	336.5	5.9	0.611
4-3450	4-3650	0.664	208.1	-25.2	-7.89	1.258	121.7	0.715	2.306	281.1	491.7	0.658	---	12.70	0.704	135.5	332.0	11.1	0.566
4-3450	4-3670	0.596	208.8	-22.4	-5.51	1.222	119.4	0.646	1.915	281.1	498.2	0.678	---	10.72	0.638	129.7	333.5	11.1	0.474
4-3450	4-3690	0.548	209.6	-19.8	-3.76	1.197	117.7	0.597	1.718	281.2	504.6	0.693	---	9.38	0.588	123.9	333.8	11.5	0.400
4-3450	4-3710	0.515	210.4	-17.6	-2.38	1.180	116.5	0.562	1.605	281.1	510.9	0.704	---	8.43	0.551	118.2	332.9	12.0	0.342
4-3450	4-3730	0.494	211.3	-15.5	-1.24	1.169	115.7	0.538	1.538	280.8	517.0	0.730	---	7.75	0.523	112.6	330.5	12.6	0.298
4-3450	4-3750	0.483	212.3	-13.7	-0.27	1.161	115.3	0.525	1.496	280.2	522.8	0.711	---	7.25	0.502	107.3	326.7	13.1	0.266
4-3450	4-3770	0.480	213.4	-12.1	0.59	1.156	115.3	0.518	1.471	279.3	528.3	0.708	---	6.90	0.486	102.1	321.8	13.4	0.246
4-3450	4-3790	0.485	214.6	-10.7	1.37	1.153	115.6	0.519	1.457	278.1	533.3	0.701	---	6.66	0.473	97.1	316.6	13.3	0.237
4-3450	4-3810	0.496	216.0	-9.7	2.10	1.152	116.2	0.525	1.451	276.5	537.8	0.689	---	6.51	0.464	92.4	311.9	12.7	0.239
4-3450	4-3830	0.513	217.4	-8.9	2.79	1.152	117.2	0.536	1.450	274.5	541.9	0.673	2.228	6.44	0.457	87.8	308.4	11.9	0.248
4-3450	4-3850	0.536	219.0	-8.4	3.47	1.153	118.4	0.551	1.454	272.1	545.5	0.652	2.256	6.45	0.452	83.3	308.4	11.0	0.263
4-3450	4-3870	0.565	220.7	-8.1	4.14	1.154	119.9	0.571	1.461	269.3	548.6	0.627	2.295	6.52	0.447	78.9	305.8	10.2	0.283
4-3450	4-3890	0.599	222.4	-8.0	4.83	1.156	121.7	0.594	1.470	266.1	551.3	0.597	2.344	6.67	0.444	74.5	306.5	9.4	0.306
4-3450	4-3910	0.638	224.3	-8.1	5.55	1.158	123.8	0.620	1.482	262.5	553.4	0.563	2.401	6.89	0.442	70.1	308.2	8.7	0.331
4-3450	4-3930	0.682	226.3	-8.4	6.31	1.161	126.2	0.649	1.495	258.8	555.1	0.524	2.466	7.20	0.440	65.6	310.7	8.0	0.359
4-3450	4-3950	0.731	228.4	-8.8	7.13	1.164	128.8	0.681	1.510	254.3	556.3	0.481	2.539	7.60	0.439	61.1	314.0	7.5	0.388
4-3450	4-3970	0.786	230.6	-9.3	8.04	1.167	131.8	0.716	1.526	249.6	557.0	0.434	2.618	8.12	0.439	56.4	317.8	7.1	0.419
4-3450	4-3990	0.846	232.9	-10.0	9.07	1.170	135.1	0.752	1.543	244.5	557.3	0.383	2.703	8.78	0.439	51.6	322.1	6.7	0.451
4-3450	4-4010	0.911	235.3	-10.7	10.28	1.173	138.7	0.789	1.562	239.1	557.1	0.330	2.793	9.64	0.440	46.7	326.8	6.4	0.485
4-3450	4-4030	0.980	237.9	-11.5	11.73	1.176	142.6	0.826	1.581	233.4	556.5	0.276	2.887	10.76	0.442	41.6	331.9	6.1	0.520

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3450	4-4050	1.054	240.6	-12.3	13.54	1.180	146.7	0.862	1.602	227.3	555.4	0.221	2.982	12.26	0.444	36.4	337.3	5.8	0.556
4-3450	4-4070	1.131	243.5	-13.1	15.91	1.183	151.2	0.896	1.623	220.9	554.0	0.169	3.078	14.33	0.447	31.1	343.0	5.5	0.592
4-3450	4-4090	1.211	246.4	-14.0	19.17	1.187	155.8	0.927	1.646	214.3	552.2	0.121	3.171	17.30	0.450	25.8	348.9	5.3	0.629
4-3460	4-3660	0.640	215.0	-30.6	-9.10	1.263	119.7	0.706	2.355	285.8	489.7	0.692	---	14.45	0.710	134.7	335.7	13.0	0.562
4-3460	4-3680	0.569	215.9	-26.2	-5.87	1.228	117.5	0.636	1.953	286.0	496.3	0.711	---	11.57	0.646	129.1	337.5	12.4	0.468
4-3460	4-3700	0.520	216.8	-22.7	-3.69	1.204	115.8	0.585	1.750	286.2	502.8	0.726	---	9.75	0.597	123.5	338.0	12.3	0.395
4-3460	4-3720	0.487	217.7	-19.7	-2.09	1.187	114.6	0.549	1.635	286.2	509.2	0.737	---	8.52	0.580	118.0	337.3	12.6	0.336
4-3460	4-3740	0.466	218.7	-17.2	-0.84	1.176	113.8	0.525	1.565	286.0	515.4	0.743	---	7.65	0.532	112.7	335.1	12.9	0.291
4-3460	4-3760	0.455	219.7	-15.0	0.19	1.168	113.4	0.511	1.522	285.5	521.3	0.745	---	7.02	0.511	107.6	331.5	13.3	0.259
4-3460	4-3780	0.452	220.8	-13.2	1.06	1.163	113.4	0.504	1.496	284.7	526.8	0.743	---	6.57	0.495	102.8	326.8	13.4	0.238
4-3460	4-3800	0.456	222.0	-11.7	1.83	1.160	113.6	0.503	1.481	283.6	531.8	0.736	---	6.25	0.482	98.1	321.6	13.2	0.228
4-3460	4-3820	0.465	223.3	-10.6	2.53	1.159	114.2	0.507	1.475	282.1	536.5	0.726	---	6.02	0.473	93.6	316.9	12.6	0.227
4-3460	4-3840	0.481	224.8	-9.7	3.18	1.159	115.0	0.517	1.473	280.2	540.6	0.712	2.235	5.88	0.465	89.3	313.2	11.8	0.234
4-3460	4-3860	0.501	226.3	-9.2	3.79	1.159	116.1	0.530	1.477	278.0	544.3	0.694	2.259	5.81	0.459	85.1	310.9	10.8	0.246
4-3460	4-3880	0.527	227.9	-8.9	4.39	1.160	117.4	0.547	1.483	275.3	547.6	0.672	2.294	5.80	0.455	81.0	310.0	9.9	0.263
4-3460	4-3900	0.557	229.5	-8.8	4.98	1.162	119.0	0.567	1.492	272.3	550.4	0.646	2.338	5.86	0.451	77.0	310.3	9.1	0.283
4-3460	4-3920	0.591	231.3	-8.9	5.58	1.164	120.8	0.590	1.503	269.0	552.7	0.616	2.398	5.97	0.448	73.0	311.7	8.4	0.306
4-3460	4-3940	0.630	233.2	-9.2	6.20	1.167	122.9	0.616	1.516	265.4	554.7	0.582	2.450	6.15	0.446	68.9	314.0	7.8	0.330
4-3460	4-3960	0.674	235.1	-9.6	6.85	1.169	125.2	0.645	1.530	261.4	556.1	0.543	2.516	6.39	0.445	64.8	316.9	7.2	0.356
4-3460	4-3980	0.722	237.2	-10.1	7.54	1.172	127.8	0.676	1.545	257.0	557.2	0.501	2.589	6.71	0.444	60.6	320.4	6.8	0.383
4-3460	4-4000	0.774	239.4	-10.7	8.31	1.175	130.7	0.709	1.561	252.4	557.9	0.455	2.668	7.13	0.444	56.3	324.3	6.4	0.412
4-3460	4-4020	0.832	241.6	-11.3	9.17	1.178	133.8	0.743	1.579	247.4	558.1	0.406	2.752	7.66	0.444	51.8	328.7	6.1	0.441
4-3460	4-4040	0.893	244.0	-12.0	10.15	1.181	137.2	0.778	1.597	242.1	557.9	0.354	2.840	8.34	0.445	47.3	333.4	5.8	0.472
4-3460	4-4060	0.959	246.5	-12.8	11.32	1.184	140.9	0.814	1.616	236.5	557.4	0.301	2.932	9.21	0.447	42.6	338.4	5.5	0.505
4-3460	4-4080	1.029	249.2	-13.6	12.75	1.187	144.9	0.849	1.636	230.6	556.4	0.247	3.026	10.35	0.449	37.7	343.8	5.3	0.538
4-3460	4-4100	1.102	251.9	-14.3	14.56	1.191	149.1	0.883	1.657	224.5	555.1	0.195	3.120	11.89	0.452	32.7	349.3	5.0	0.572
4-3460	4-4120	1.179	254.8	-15.1	16.97	1.194	153.5	0.914	1.679	218.0	553.4	0.145	3.214	14.05	0.455	27.7	355.1	4.8	0.607
4-3460	4-4140	1.257	257.7	-15.8	20.40	1.197	158.1	0.941	1.702	211.4	551.5	0.100	3.304	17.22	0.459	22.6	1.1	4.7	0.642
4-3470	4-3670	0.623	221.8	-37.9	-11.35	1.268	117.6	0.697	2.394	290.8	487.9	0.726	---	17.18	0.715	133.9	339.1	15.8	0.560
4-3470	4-3690	0.542	222.9	-30.6	-6.51	1.234	115.5	0.625	1.986	291.1	494.5	0.745	---	12.63	0.652	128.4	341.3	14.0	0.463
4-3470	4-3710	0.491	224.0	-25.4	-3.66	1.210	113.8	0.574	1.780	291.4	501.2	0.759	---	10.08	0.604	123.0	342.1	13.2	0.388
4-3470	4-3730	0.458	225.1	-21.4	-1.75	1.193	112.7	0.537	1.662	291.5	507.6	0.749	---	8.47	0.568	117.8	341.5	13.0	0.329
4-3470	4-3750	0.438	226.1	-18.3	-0.35	1.182	111.9	0.513	1.591	291.4	513.9	0.775	---	7.39	0.540	112.7	339.5	13.0	0.284
4-3470	4-3770	0.427	227.1	-15.7	0.73	1.174	111.5	0.498	1.547	291.0	519.8	0.777	---	6.63	0.519	107.9	336.1	13.1	0.251
4-3470	4-3790	0.424	228.3	-13.6	1.61	1.169	111.4	0.490	1.520	290.3	525.4	0.776	---	6.08	0.503	103.2	331.5	13.1	0.230
4-3470	4-3810	0.427	229.4	-12.0	2.36	1.167	111.6	0.488	1.505	289.3	530.5	0.771	---	5.69	0.490	98.8	326.4	12.7	0.218
4-3470	4-3830	0.436	230.7	-10.8	3.02	1.165	112.1	0.491	1.498	287.9	535.2	0.762	---	5.40	0.480	94.6	321.6	12.1	0.216
4-3470	4-3850	0.450	232.1	-10.0	3.61	1.165	112.8	0.499	1.496	286.1	539.4	0.750	---	5.20	0.473	90.6	317.8	11.2	0.221
4-3470	4-3870	0.468	233.5	-9.4	4.16	1.165	113.8	0.510	1.499	283.9	543.2	0.734	2.264	5.07	0.467	86.7	315.2	10.3	0.231
4-3470	4-3890	0.491	235.1	-9.2	4.68	1.167	115.0	0.525	1.505	281.4	546.5	0.715	2.296	5.00	0.482	82.9	314.1	9.3	0.246
4-3470	4-3910	0.518	236.7	-9.1	5.18	1.168	116.4	0.543	1.514	278.6	549.5	0.692	2.336	4.98	0.458	79.1	314.2	8.5	0.264
4-3470	4-3930	0.548	238.4	-9.3	5.68	1.170	118.0	0.563	1.524	275.5	552.0	0.666	2.383	5.02	0.455	75.4	315.3	7.8	0.283
4-3470	4-3950	0.583	240.1	-9.6	6.17	1.172	119.9	0.586	1.537	272.0	554.1	0.636	2.438	5.10	0.452	71.7	317.3	7.2	0.305
4-3470	4-3970	0.621	242.0	-10.0	6.68	1.175	121.9	0.612	1.550	268.3	555.8	0.602	2.499	5.23	0.451	67.9	319.9	6.7	0.328
4-3470	4-3990	0.663	243.9	-10.5	7.21	1.177	124.2	0.640	1.565	264.3	557.1	0.564	2.565	5.41	0.449	64.1	323.1	6.2	0.352
4-3470	4-4010	0.710	246.0	-11.1	7.78	1.180	126.7	0.669	1.580	260.0	558.1	0.523	2.636	5.65	0.449	60.3	326.8	5.8	0.377
4-3470	4-4030	0.760	248.1	-11.7	8.39	1.183	129.5	0.700	1.597	255.4	558.7	0.478	2.715	5.97	0.449	56.3	330.8	5.5	0.403
4-3470	4-4050	0.814	250.3	-12.4	9.07	1.186	132.4	0.733	1.614	250.6	559.0	0.431	2.798	6.38	0.449	52.2	335.2	5.2	0.431
4-3470	4-4070	0.873	252.7	-13.1	9.84	1.189	135.7	0.767	1.632	245.4	558.8	0.381	2.884	6.87	0.450	47.9	339.9	5.0	0.459
4-3470	4-4090	0.935	255.1	-13.8	10.74	1.192	139.2	0.801	1.651	240.0	558.3	0.329	2.974	7.51	0.452	43.6	344.9	4.8	0.489
4-3470	4-4110	1.002	257.7	-14.5	11.81	1.194	142.9	0.835	1.671	234.3	557.5	0.276	3.068	8.34	0.454	39.1	350.1	4.6	0.520
4-3470	4-4130	1.071	260.4	-15.2	13.14	1.197	146.9	0.868	1.691	228.3	556.3	0.223	3.159	9.44	0.457	34.4	355.5	4.4	0.552
4-3470	4-4150	1.144	263.2	-15.8	14.85	1.201	151.1	0.899	1.712	222.0	554.7	0.172	3.252	10.94	0.460	29.7	1.1	4.2	0.585
4-3470	4-4170	1.219	266.1	-16.5	17.20	1.204	155.6	0.928	1.734	215.5	552.9	0.125	3.343	13.06	0.464	24.8	7.0	4.1	0.618
4-3480	4-3680	0.636	229.1	-50.6	-16.70	1.271	115.4	0.687	2.424	295.8	486.2	0.759	---	22.94	0.719	133.0	341.1	21.0	0.572
4-3480	4-3700	0.518	229.8	-36.2	-7.77	1.238	113.4	0.614	2.014	296.4	492.9	0.778	---	14.24	0.657	127.7	344.8	16.2	0.458
4-3480	4-3720	0.462	231.2	-28.0	-3.67	1.215	111.8	0.562	1.806	296.8	499.7	0.791	---	10.38	0.610	122.5	345.9	14.1	0.380
4-3480	4-3740	0.429	232.4	-22.5	-1.30	1.198	110.7	0.526	1.688	297.0	506.2	0.801	---	8.24	0.574	117.4	345.5	13.1	0.321
4-3480	4-3760	0.410	233.5	-18.5	0.27	1.187	110.0	0.501	1.616	297.0	512.6	0.806	---	8.91	0.547	112.6	343.7	12.7	0.276
4-3480	4-3780	0.400	234.5	-15.4	1.41	1.180	109.6	0.485	1.571	296.7	518.6	0.809	---	8.02	0.526	107.9	340.4	12.5	0.243
4-3480	4-3800	0.397	235.6	-13.1	2.29	1.175	109.5	0.477	1.544	296.1	524.1	0.808	---	5.40	0.510	103.5	335.9	12.2	0.221
4-3480	4-3820	0.400	236.8	-11.4	3.00	1.172	109.7	0.474	1.528	295.1	529.3	0.803	---	4.95	0.497	99.4	330.9	11.7	0.209
4-3480	4-3840	0.408	238.0	-10.2	3.61	1.171	110.1	0.477	1.521	293.8	534.0	0.796	---	4.62	0.487	95.4	326.1	11.0	0.205
4-3480	4-3860	0.421	239.3	-9.4	4.13	1.171	110.8	0.483	1.519	292.1	538.3	0.785	---	4.38	0.479	91.6	322.1	10.1	0.209
4-3480	4-3880	0.437	240.7	-9.0	4.61	1.171	111.6	0.493	1.522	290.0	542.1	0.772	2.271	4.21	0.473	87.9	319.4	9.2	0.218
4-3480	4-3900	0.458	242.2	-8.8	5.04	1.172	112.7	0.506	1.527	287.6	545.5	0.755	2.300	4.10	0.468	84.4	318.1	8.3	0.230
4-3480	4-3920	0.481	243.8	-8.8	5.45	1.174	113.9	0.521	1.536	284.9	548.5	0.735	2.336	4.03	0.464	80.9	318.0	7.5	0.246
4-3480	4-3940	0.509	245.4	-9.1	5.85	1.176	115.4	0.539	1.546	282.0	551.2	0.712	2.380	4.01	0.461	77.5	318.8	6.9	0.264
4-3480	4-3960	0.539	247.1	-9.4	6.23	1.178	117.0	0.560	1.558	278.7	553.4	0.686	2.430	4.02	0.458	74.1	320.6	6.3	0.283
4-3480	4-3980	0.573	248.9	-9.9	6.62	1.180	118.9	0.582	1.571	275.2	555.3	0.656	2.486	4.07	0.456	70.6	323.0	5.8	0.303
4-3480	4-4000	0.610	250.7	-10.4	7.01	1.182	120.9	0.607	1.585	271.5	556.9	0.623	2.547	4.16	0.455	67.2	325.9	5.4	0.324
4-3480	4-4020	0.651	252.7	-11.1	7.42	1.185	123.1	0.633	1.600	267.4	558.1	0.586	2.613	4.29	0.454	63.7	329.3	5.0	0.346
4-3480	4-4040	0.695	254.7	-11.7	7.85	1.187	125.5	0.662	1.616	263.2	559.0	0.547	2.685	4.46	0.453	60.1	333.1	4.7	0.369
4-3480	4-4060	0.743	256.8	-12.4	8.31	1.190	128.1	0.691	1.632	258.7	559.6	0.504	2.761	4.67	0.454	56.4	337.2	4.5	0.394
4-3480	4-4080	0.795	259.0	-13.0	8.81	1.193	131.0	0.722	1.650	253.9	559.8	0.458	2.841	4.95	0.454	52.6	341.6	4.3	0.419
4-3480	4-4100	0.850	261.3	-13.7	9.38	1.195	134.0	0.754	1.667	248.9	559.8	0.409	2.925	5.30	0.456	48.7	346.3	4.1	0.445
4-3480	4-4120	0.909	263.7	-14.4	10.02	1.198	137.3	0.787	1.686	243.6	559.3	0.359	3.013	5.75	0.457	44.6	351.2	3.9	0.473
4-3480	4-4140	0.971	266.2	-15.0	10.78	1.201	140.9	0.820	1.705	238.1	558.6	0.307	3.103	6.31	0.460	40.4	356.3	3.7	0.501
4-3480	4-4160	1.037	268.8	-15.6	11.70	1.204	144.6	0.852	1.725	232.3	557.5	0.255	3.194	7.05	0.462	36.1	1.6	3.6	0.531
4-3480	4-4180	1.107	271.5	-16.2	12.86	1.207	148.7	0.883	1.745	226.2	556.1	0.203	3.287	8.02	0.466	31.7	7.1	3.5	0.562

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3480	4-4200	1.179	274.4	-16.7	14.38	1.209	152.9	0.913	1.766	219.9	554.4	0.154	3.378	9.37	0.470	27.1	12.8	3.4	0.594
4-3480	4-4220	1.253	277.3	-17.2	16.51	1.212	157.3	0.939	1.788	213.3	552.4	0.109	8.468	11.33	0.474	22.4	18.7	3.2	0.627
4-3490	4-3710	0.508	236.5	-46.2	-10.95	1.241	111.2	0.602	2.035	301.9	491.5	0.810	---	17.69	0.860	126.9	347.5	20.4	0.461
4-3490	4-3730	0.431	238.1	-30.5	-3.77	1.218	109.7	0.550	1.828	302.5	498.4	0.823	---	10.68	0.814	121.8	349.6	15.1	0.372
4-3490	4-3750	0.399	239.5	-22.3	-0.63	1.203	108.7	0.514	1.710	302.8	505.0	0.831	---	7.71	0.579	117.0	349.4	12.9	0.311
4-3490	4-3770	0.381	240.7	-17.2	1.15	1.192	108.0	0.489	1.638	302.9	511.4	0.837	---	6.10	0.552	112.3	347.6	11.8	0.267
4-3490	4-3790	0.373	241.7	-13.7	2.32	1.185	107.6	0.473	1.593	302.7	517.5	0.839	---	5.10	0.532	107.9	344.4	11.1	0.234
4-3490	4-3810	0.371	242.8	-11.3	3.16	1.180	107.5	0.465	1.566	302.1	520.1	0.838	---	4.44	0.516	103.7	340.0	10.5	0.212
4-3490	4-3830	0.374	243.9	-9.6	3.81	1.178	107.7	0.462	1.550	301.2	520.3	0.834	---	3.97	0.503	99.7	335.1	9.9	0.199
4-3490	4-3850	0.382	245.0	-8.5	4.33	1.176	108.1	0.463	1.543	299.9	523.0	0.828	---	3.64	0.493	96.0	330.2	9.2	0.195
4-3490	4-3870	0.393	246.3	-7.9	4.77	1.176	108.7	0.469	1.541	298.2	537.3	0.819	---	3.39	0.485	92.4	326.2	8.3	0.198
4-3490	4-3890	0.408	247.7	-7.6	5.15	1.176	109.5	0.477	1.543	296.2	541.1	0.807	2.280	3.21	0.479	89.0	323.4	7.5	0.205
4-3490	4-3910	0.426	249.1	-7.6	5.49	1.177	110.4	0.488	1.549	293.9	544.6	0.792	2.306	3.08	0.474	85.6	321.9	6.7	0.217
4-3490	4-3930	0.448	250.7	-7.8	5.81	1.179	111.6	0.502	1.557	291.4	547.7	0.775	2.339	2.99	0.470	82.4	321.6	6.1	0.230
4-3490	4-3950	0.472	252.3	-8.2	6.10	1.180	112.9	0.518	1.567	288.5	550.4	0.755	2.379	2.94	0.466	79.2	322.3	5.5	0.246
4-3490	4-3970	0.499	253.9	-8.7	6.38	1.182	114.3	0.536	1.579	285.4	552.7	0.732	2.425	2.91	0.463	76.1	323.9	5.0	0.263
4-3490	4-3990	0.529	255.7	-9.2	6.65	1.185	116.0	0.556	1.591	282.1	554.8	0.706	2.477	2.91	0.461	72.9	326.1	4.6	0.281
4-3490	4-4010	0.562	257.5	-9.9	6.92	1.187	117.8	0.578	1.605	278.5	556.5	0.677	2.533	2.94	0.460	69.8	328.8	4.2	0.300
4-3490	4-4030	0.598	259.3	-10.5	7.20	1.189	119.7	0.602	1.620	274.8	558.0	0.645	2.594	2.99	0.459	66.6	332.0	3.9	0.320
4-3490	4-4050	0.637	261.3	-11.2	7.48	1.192	121.9	0.627	1.635	270.8	559.1	0.610	2.660	3.06	0.458	63.3	335.6	3.7	0.340
4-3490	4-4070	0.679	263.3	-11.9	7.77	1.194	124.2	0.653	1.651	266.6	559.9	0.572	2.730	3.17	0.458	60.0	339.4	3.5	0.361
4-3490	4-4090	0.724	265.4	-12.6	8.08	1.197	126.7	0.682	1.668	262.2	560.5	0.531	2.804	3.30	0.458	56.6	343.6	3.3	0.383
4-3490	4-4110	0.773	267.5	-13.3	8.42	1.199	129.4	0.711	1.685	257.5	560.8	0.487	2.882	3.48	0.459	53.1	348.0	3.1	0.407
4-3490	4-4130	0.825	269.8	-13.9	8.80	1.202	132.3	0.741	1.702	252.6	560.7	0.440	2.964	3.70	0.461	49.5	352.6	3.0	0.431
4-3490	4-4150	0.880	272.2	-14.6	9.22	1.204	135.4	0.772	1.720	247.5	560.4	0.391	3.049	3.97	0.463	45.7	357.4	2.9	0.456
4-3490	4-4170	0.939	274.6	-15.2	9.71	1.207	138.7	0.804	1.739	242.1	559.8	0.341	3.138	4.32	0.465	41.8	2.4	2.8	0.483
4-3490	4-4190	1.002	277.2	-15.7	10.29	1.209	142.3	0.836	1.758	236.5	558.8	0.289	3.226	4.76	0.468	37.8	7.6	2.7	0.511
4-3490	4-4210	1.067	279.9	-16.2	11.00	1.212	146.1	0.866	1.777	230.6	557.6	0.237	3.317	5.34	0.472	33.8	13.0	2.6	0.540
4-3490	4-4230	1.136	282.6	-16.6	11.90	1.215	150.1	0.896	1.797	224.4	556.0	0.187	3.408	6.12	0.476	29.3	18.6	2.5	0.571
4-3490	4-4250	1.208	285.5	-17.0	13.12	1.217	154.4	0.923	1.818	218.0	554.2	0.139	3.497	7.21	0.481	24.9	24.4	2.4	0.603
4-3490	4-4270	1.282	288.5	-17.3	14.86	1.220	158.9	0.948	1.840	211.3	552.0	0.096	3.584	8.84	0.486	20.3	30.3	2.3	0.636
4-3500	4-3680	0.626	255.8	9.6	15.93	1.320	112.7	0.762	3.422	306.8	476.0	0.813	---	-9.16	0.798	135.8	350.3	-8.6	0.595
4-3500	4-3700	0.730	267.8	29.3	29.12	1.274	110.4	0.660	2.443	307.8	483.1	0.831	---	-22.26	0.720	130.8	348.5	-22.3	0.543
4-3500	4-3720	0.711	270.3	-79.1	-29.98	1.243	109.0	0.590	2.049	307.5	490.3	0.841	---	36.94	0.661	126.0	342.0	34.7	0.565
4-3500	4-3740	0.401	244.6	-33.6	-4.12	1.221	107.5	0.538	1.846	308.4	497.3	0.853	---	11.17	0.617	121.1	353.0	16.4	0.363
4-3500	4-3760	0.368	246.5	-19.8	0.60	1.206	106.6	0.502	1.729	308.9	504.1	0.861	---	6.55	0.583	116.4	353.2	11.5	0.299
4-3500	4-3780	0.354	247.7	-13.4	2.56	1.196	105.9	0.478	1.658	309.0	510.5	0.866	---	4.68	0.557	111.9	351.4	9.5	0.255
4-3500	4-3800	0.348	248.7	-9.8	3.66	1.189	105.6	0.462	1.614	308.9	516.6	0.868	---	3.69	0.537	107.7	348.2	8.4	0.224
4-3500	4-3820	0.347	249.6	-7.5	4.37	1.185	105.5	0.454	1.587	308.3	522.2	0.867	---	3.08	0.521	103.7	345.8	7.7	0.202
4-3500	4-3840	0.351	250.7	-6.1	4.88	1.182	105.7	0.450	1.571	307.4	527.4	0.864	---	2.67	0.509	100.0	338.9	7.0	0.190
4-3500	4-3860	0.358	251.8	-5.3	5.27	1.181	106.1	0.451	1.564	306.2	532.1	0.858	---	2.39	0.499	96.4	334.0	6.4	0.186
4-3500	4-3880	0.368	253.0	-5.0	5.58	1.180	106.6	0.456	1.562	304.5	536.4	0.850	---	2.18	0.491	93.0	330.0	5.7	0.188
4-3500	4-3900	0.381	254.3	-5.1	5.84	1.181	107.3	0.463	1.564	302.6	540.3	0.840	2.289	2.03	0.484	89.8	327.2	5.1	0.194
4-3500	4-3920	0.398	255.7	-5.4	6.06	1.182	108.2	0.473	1.570	300.4	543.7	0.827	2.313	1.92	0.479	86.7	325.6	4.5	0.204
4-3500	4-3940	0.416	257.2	-5.8	6.26	1.183	109.3	0.485	1.578	297.9	546.9	0.813	2.344	1.84	0.475	83.6	325.1	4.0	0.217
4-3500	4-3960	0.438	258.8	-6.5	6.45	1.185	110.5	0.499	1.588	295.1	549.6	0.795	2.381	1.78	0.471	80.7	325.7	3.6	0.231
4-3500	4-3980	0.462	260.5	-7.2	6.62	1.187	111.8	0.515	1.600	292.2	552.1	0.775	2.424	1.74	0.468	77.7	327.1	3.2	0.246
4-3500	4-4000	0.488	262.2	-7.9	6.78	1.189	113.3	0.533	1.612	289.0	554.2	0.753	2.471	1.72	0.466	74.8	329.1	3.0	0.262
4-3500	4-4020	0.517	264.0	-8.7	6.94	1.191	114.9	0.552	1.626	285.6	556.1	0.728	2.523	1.71	0.464	71.9	331.7	2.7	0.279
4-3500	4-4040	0.549	265.8	-9.5	7.09	1.193	116.6	0.573	1.640	282.0	557.7	0.700	2.580	1.72	0.463	69.0	334.7	2.5	0.296
4-3500	4-4060	0.583	267.8	-10.3	7.25	1.195	118.5	0.596	1.655	278.3	559.0	0.669	2.640	1.75	0.463	66.1	338.1	2.3	0.314
4-3500	4-4080	0.620	269.7	-11.1	7.41	1.198	120.5	0.619	1.670	274.3	560.1	0.636	2.705	1.78	0.462	63.1	341.8	2.2	0.333
4-3500	4-4100	0.660	271.7	-11.8	7.57	1.200	122.8	0.645	1.686	270.2	560.9	0.599	2.773	1.83	0.463	60.0	345.7	2.1	0.353
4-3500	4-4120	0.702	273.8	-12.5	7.75	1.202	125.1	0.671	1.702	265.8	561.4	0.560	2.845	1.90	0.464	56.8	349.9	2.0	0.373
4-3500	4-4140	0.748	276.0	-13.2	7.93	1.205	127.7	0.699	1.719	261.3	561.7	0.518	2.920	1.99	0.465	53.6	354.3	1.9	0.394
4-3500	4-4160	0.797	278.2	-13.8	8.13	1.207	130.4	0.727	1.736	256.6	561.8	0.473	2.999	2.10	0.467	50.3	358.8	1.8	0.417
4-3500	4-4180	0.849	280.6	-14.4	8.36	1.210	133.3	0.757	1.754	251.6	561.5	0.426	3.082	2.24	0.469	46.8	3.6	1.7	0.440
4-3500	4-4200	0.905	283.0	-14.9	8.62	1.212	136.5	0.787	1.772	246.4	561.0	0.377	3.167	2.41	0.472	43.2	8.5	1.7	0.465
4-3500	4-4220	0.964	285.5	-15.4	8.92	1.214	139.9	0.818	1.790	240.9	560.2	0.326	3.254	2.63	0.475	39.5	13.6	1.6	0.491
4-3500	4-4240	1.027	288.1	-15.8	9.27	1.217	143.5	0.848	1.809	235.2	559.1	0.275	3.344	2.91	0.479	35.6	18.9	1.6	0.519
4-3500	4-4260	1.092	290.8	-16.2	9.72	1.219	147.3	0.878	1.829	229.2	557.7	0.223	3.434	3.28	0.483	31.5	24.4	1.5	0.548
4-3500	4-4280	1.161	293.7	-16.4	10.30	1.222	151.4	0.906	1.848	222.9	556.0	0.174	3.529	3.78	0.488	27.3	30.1	1.5	0.579
4-3500	4-4300	1.233	296.6	-16.6	11.09	1.224	155.7	0.932	1.869	216.3	553.9	0.127	3.611	4.50	0.493	23.0	35.9	1.4	0.612
4-3510	4-3670	0.612	256.4	-5.6	8.16	1.380	112.7	0.893	7.745	311.8	467.7	0.828	---	-1.14	0.895	139.4	352.1	-1.0	0.689
4-3510	4-3690	0.531	256.9	-2.5	8.59	1.317	110.1	0.747	3.344	312.4	474.8	0.846	---	-1.54	0.793	134.6	354.5	-1.5	0.567
4-3510	4-3710	0.477	257.6	1.9	9.50	1.274	108.1	0.646	2.432	313.2	482.1	0.862	---	-2.43	0.718	129.8	356.4	-2.8	0.471
4-3510	4-3730	0.465	259.9	11.9	12.87	1.244	106.5	0.575	2.054	314.0	489.4	0.874	---	-5.78	0.861	125.0	357.2	-7.9	0.398
4-3510	4-3750	0.387	250.2	-45.5	-7.37	1.223	105.3	0.525	1.858	314.7	496.5	0.883	---	14.50	0.618	120.3	355.4	21.5	0.365
4-3510	4-3770	0.345	253.9	-9.3	3.87	1.209	104.4	0.490	1.744	315.2	503.4	0.889	---	3.28	0.585	115.7	356.8	6.1	0.283
4-3510	4-3790	0.337	254.9	-4.0	5.31	1.199	103.8	0.467	1.675	315.4	509.9	0.893	---	1.87	0.560	111.4	356.8	4.0	0.243
4-3510	4-3810	0.332	255.5	-1.7	5.88	1.192	103.5	0.452	1.632	315.3	516.0	0.895	---	1.32	0.540	107.4	351.5	3.2	0.213
4-3510	4-3830	0.331	256.2	-0.6	6.19	1.188	103.5	0.443	1.606	314.8	521.6	0.894	---	1.03	0.525	103.6	347.1	2.7	0.193
4-3510	4-3850	0.333	257.0	-0.1	6.40	1.185	103.6	0.440	1.591	313.9	526.7	0.891	---	0.88	0.513	100.0	342.2	2.4	0.182
4-3510	4-3870	0.338	258.0	-0.2	6.54	1.184	104.0	0.440	1.583	312.6	531.4	0.886	---	0.74	0.503	96.6	337.5	2.1	0.178
4-3510	4-3890	0.347	259.1	-0.5	6.65	1.184	104.5	0.444	1.582	311.1	535.7	0.880	---	0.68	0.495	93.4	333.5	1.8	0.179
4-3510	4-3910	0.358	260.4	-1.1	6.73	1.184	105.2	0.451	1.585	309.2	539.6	0.871	---	0.60	0.489	90.4	330.6	1.6	0.185
4-3510	4-3930	0.372	261.8	-1.9	6.80	1.185	106.0	0.459	1.590	307.0	543.0	0.860	2.321	0.56	0.484	87.4	329.0	1.4	0.194
4-3510	4-3950	0.388	263.4	-2.8	6.87	1.187	107.0	0.470	1.599	304.5	546.1	0.847	2.350	0.53	0.479	84.6	328.5	1.2	0.205
4-3510	4-3970	0.407	265.0	-3.8	6.92	1.188	108.1	0.483	1.608	301.8	548.9	0.832	2.385	0.51	0.476	81.8	329.0	1.1	0.218
4-3510	4-3990	0.427	266.7	-4.8	6.97	1.190	109.3	0.497	1.620	299.0	551.4	0.815	2.425	0.49	0.473	79.1	330.3	1.0	0.232

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3510	4-4010	0.451	268.4	-5.8	7.02	1.192	110.6	0.513	1.632	295.9	553.7	0.796	2.469	0.48	0.471	76.4	332.2	0.9	0.246
4-3510	4-4030	0.476	270.2	-6.8	7.06	1.194	112.1	0.530	1.646	292.7	555.6	0.774	2.517	0.47	0.469	73.8	334.6	0.8	0.261
4-3510	4-4050	0.504	272.1	-7.8	7.10	1.196	113.7	0.548	1.660	289.2	557.4	0.750	2.569	0.47	0.468	71.1	337.5	0.7	0.276
4-3510	4-4070	0.534	274.0	-8.8	7.14	1.199	115.4	0.568	1.674	285.7	558.8	0.723	2.625	0.47	0.467	68.4	340.7	0.7	0.292
4-3510	4-4090	0.566	275.9	-9.7	7.18	1.201	117.2	0.589	1.689	281.9	560.1	0.694	2.685	0.47	0.467	65.6	344.2	0.6	0.309
4-3510	4-4110	0.601	278.0	-10.5	7.22	1.203	119.2	0.612	1.705	278.0	561.1	0.662	2.747	0.48	0.467	62.9	348.0	0.6	0.326
4-3510	4-4130	0.638	280.0	-11.3	7.27	1.205	121.3	0.635	1.721	274.0	561.9	0.628	2.814	0.49	0.468	60.0	352.0	0.6	0.344
4-3510	4-4150	0.679	282.1	-12.1	7.31	1.208	123.5	0.660	1.737	269.7	562.4	0.591	2.883	0.50	0.469	57.1	356.1	0.5	0.363
4-3510	4-4170	0.722	284.3	-12.7	7.36	1.210	125.9	0.686	1.753	265.3	562.8	0.550	2.956	0.53	0.471	54.1	0.5	0.5	0.382
4-3510	4-4190	0.768	286.5	-13.3	7.41	1.212	128.5	0.713	1.770	260.7	562.9	0.508	3.033	0.55	0.473	51.1	5.0	0.5	0.403
4-3510	4-4210	0.817	288.8	-13.9	7.47	1.214	131.3	0.741	1.787	255.9	562.7	0.463	3.112	0.58	0.475	47.9	9.7	0.5	0.425
4-3510	4-4230	0.869	291.2	-14.4	7.53	1.217	134.2	0.770	1.805	250.8	562.3	0.415	3.194	0.62	0.478	44.5	14.6	0.5	0.448
4-3510	4-4250	0.925	293.7	-14.8	7.60	1.219	137.4	0.799	1.823	245.5	561.6	0.365	3.280	0.67	0.482	41.1	19.6	0.4	0.473
4-3510	4-4270	0.984	296.3	-15.1	7.69	1.221	140.8	0.829	1.841	240.0	560.7	0.315	3.367	0.74	0.486	37.5	24.8	0.4	0.499
4-3510	4-4290	1.047	298.9	-15.4	7.79	1.223	144.5	0.859	1.859	234.1	559.4	0.263	3.456	0.82	0.490	33.7	30.2	0.4	0.527
4-3510	4-4310	1.113	301.7	-15.6	7.92	1.225	148.4	0.887	1.878	228.0	557.8	0.212	3.545	0.93	0.495	29.8	35.8	0.4	0.557
4-3520	4-3680	0.554	260.8	-9.6	5.76	1.373	109.7	0.873	6.783	317.5	466.6	0.863	---	1.55	0.884	138.1	355.7	1.4	0.663
4-3520	4-3700	0.472	260.6	-8.9	5.33	1.313	107.4	0.728	3.236	318.4	473.9	0.879	---	1.93	0.787	133.4	358.0	2.0	0.546
4-3520	4-3720	0.411	260.0	-9.2	4.63	1.272	105.5	0.629	2.405	319.4	481.4	0.892	---	2.59	0.714	128.6	359.7	3.2	0.453
4-3520	4-3740	0.363	258.9	-12.4	3.18	1.243	104.0	0.560	2.051	320.4	488.8	0.902	---	3.99	0.659	123.9	0.6	5.7	0.380
4-3520	4-3760	0.329	256.5	-29.2	-1.73	1.224	102.9	0.512	1.864	321.3	496.1	0.910	---	8.86	0.618	119.3	359.9	14.5	0.331
4-3520	4-3780	0.823	292.7	49.9	40.76	1.210	102.2	0.479	1.755	321.6	503.0	0.915	---	-33.68	0.586	115.0	347.8	-41.5	0.444
4-3520	4-3800	0.385	264.7	20.8	13.16	1.201	101.7	0.456	1.688	322.1	509.6	0.918	---	-6.13	0.562	110.9	357.2	-13.4	0.242
4-3520	4-3820	0.346	262.8	14.3	10.37	1.194	101.4	0.442	1.647	322.0	515.6	0.920	---	-3.38	0.543	107.0	354.2	-8.5	0.208
4-3520	4-3840	0.332	262.5	11.4	9.31	1.190	101.4	0.434	1.622	321.5	521.2	0.919	---	-2.36	0.528	103.3	349.9	-6.5	0.188
4-3520	4-3860	0.328	262.9	9.5	8.74	1.188	101.6	0.430	1.608	320.6	526.3	0.916	---	-1.84	0.516	99.9	345.1	-5.3	0.176
4-3520	4-3880	0.328	263.6	7.8	8.38	1.187	101.9	0.431	1.602	319.4	531.0	0.912	---	-1.52	0.507	96.7	340.4	-4.5	0.172
4-3520	4-3900	0.333	264.6	6.2	8.13	1.187	102.4	0.434	1.601	317.8	535.2	0.906	---	-1.31	0.499	93.7	336.5	-3.8	0.173
4-3520	4-3920	0.340	265.8	4.6	7.94	1.187	103.1	0.440	1.604	315.9	539.0	0.899	---	-1.17	0.493	90.8	333.8	-3.2	0.178
4-3520	4-3940	0.351	267.3	3.0	7.79	1.188	103.9	0.447	1.610	313.7	542.5	0.890	2.330	-1.06	0.488	88.0	332.2	-2.8	0.186
4-3520	4-3960	0.364	268.8	1.5	7.66	1.190	104.8	0.457	1.618	311.3	545.6	0.879	2.357	-0.98	0.483	85.3	331.7	-2.4	0.196
4-3520	4-3980	0.379	270.5	-0.0	7.55	1.191	105.8	0.468	1.628	308.7	548.4	0.866	2.390	-0.92	0.480	82.8	332.1	-2.1	0.207
4-3520	4-4000	0.397	272.3	-1.5	7.46	1.193	106.9	0.481	1.640	305.9	550.9	0.851	2.428	-0.88	0.477	80.2	333.3	-1.9	0.220
4-3520	4-4020	0.416	274.1	-2.9	7.37	1.195	108.1	0.495	1.652	302.9	553.2	0.835	2.469	-0.85	0.475	77.7	335.1	-1.7	0.232
4-3520	4-4040	0.438	276.0	-4.2	7.29	1.197	109.5	0.510	1.665	299.8	555.2	0.816	2.514	-0.82	0.473	75.3	337.5	-1.5	0.246
4-3520	4-4060	0.462	277.9	-5.5	7.22	1.199	110.9	0.526	1.679	296.5	557.0	0.796	2.563	-0.81	0.472	72.8	340.2	-1.4	0.260
4-3520	4-4080	0.488	279.9	-6.7	7.15	1.201	112.4	0.544	1.694	293.1	558.6	0.773	2.614	-0.80	0.471	70.3	343.3	-1.3	0.274
4-3520	4-4100	0.517	281.9	-7.7	7.08	1.203	114.1	0.562	1.708	289.5	560.0	0.748	2.669	-0.80	0.471	67.8	346.7	-1.2	0.288
4-3520	4-4120	0.547	283.9	-8.8	7.01	1.206	115.8	0.582	1.724	285.8	561.2	0.720	2.727	-0.80	0.471	65.3	350.3	-1.1	0.303
4-3520	4-4140	0.580	286.0	-9.7	6.94	1.208	117.7	0.603	1.739	281.9	562.2	0.690	2.788	-0.81	0.472	62.7	354.1	-1.1	0.319
4-3520	4-4160	0.615	288.1	-10.5	6.87	1.210	119.7	0.625	1.755	277.9	562.9	0.657	2.852	-0.83	0.473	60.1	358.2	-1.0	0.336
4-3520	4-4180	0.653	290.2	-11.3	6.80	1.212	121.8	0.649	1.771	273.8	563.5	0.622	2.919	-0.85	0.475	57.4	2.3	-1.0	0.353
4-3520	4-4200	0.694	292.4	-12.0	6.73	1.214	124.1	0.673	1.787	269.5	563.9	0.584	2.990	-0.88	0.477	54.7	6.7	-0.9	0.371
4-3520	4-4220	0.737	294.6	-12.6	6.64	1.216	126.5	0.699	1.803	265.0	564.0	0.544	3.063	-0.91	0.479	51.8	11.2	-0.9	0.390
4-3520	4-4240	0.783	297.0	-13.1	6.56	1.218	129.2	0.725	1.820	260.3	564.0	0.500	3.140	-0.96	0.482	48.9	15.8	-0.8	0.410
4-3520	4-4260	0.833	299.3	-13.5	6.46	1.220	131.9	0.752	1.837	255.4	563.7	0.455	3.219	-1.02	0.486	45.8	20.6	-0.8	0.432
4-3520	4-4280	0.885	301.8	-13.9	6.35	1.222	134.9	0.781	1.854	250.3	563.1	0.407	3.302	-1.09	0.489	42.6	25.6	-0.8	0.455
4-3520	4-4300	0.942	304.3	-14.2	6.22	1.225	138.2	0.809	1.872	244.9	562.3	0.357	3.387	-1.18	0.494	39.3	30.7	-0.8	0.480
4-3520	4-4320	1.001	307.0	-14.4	6.07	1.227	141.6	0.838	1.890	239.2	561.2	0.305	3.474	-1.30	0.499	35.8	36.0	-0.7	0.507
4-3530	4-3670	0.604	264.9	-12.5	4.75	1.449	109.1	1.05915.028		322.8	458.5	0.881	---	2.91	0.998	141.2	358.6	2.3	0.780
4-3530	4-3690	0.499	264.8	-12.2	4.21	1.365	106.6	0.848	5.888	323.7	465.8	0.896	---	3.32	0.871	136.7	359.1	3.1	0.636
4-3530	4-3710	0.422	264.2	-12.8	3.49	1.308	104.5	0.707	3.104	324.8	473.4	0.909	---	3.91	0.777	132.1	1.2	4.3	0.524
4-3530	4-3730	0.365	263.1	-14.9	2.45	1.269	102.8	0.611	2.365	326.0	481.1	0.920	---	4.84	0.708	127.4	2.6	6.2	0.436
4-3530	4-3750	0.322	261.7	-20.4	0.75	1.242	101.4	0.544	2.038	327.2	488.7	0.929	---	6.42	0.655	122.8	3.2	9.6	0.368
4-3530	4-3770	0.298	260.0	-33.7	-2.59	1.223	100.4	0.498	1.863	328.3	496.0	0.935	---	9.65	0.616	118.3	2.4	16.4	0.321
4-3530	4-3790	0.364	261.2	-68.5	-12.50	1.210	99.7	0.466	1.761	329.2	503.1	0.940	---	19.44	0.585	114.1	357.6	32.6	0.330
4-3530	4-3830	0.523	277.4	43.4	23.98	1.196	99.3	0.433	1.660	328.7	515.6	0.941	---	-17.26	0.544	106.5	353.3	-35.4	0.267
4-3530	4-3850	0.395	270.4	31.1	15.86	1.192	99.3	0.425	1.636	328.4	521.2	0.941	---	-9.24	0.530	102.9	351.5	-24.0	0.204
4-3530	4-3870	0.354	268.8	24.2	12.87	1.190	99.5	0.422	1.623	327.5	526.2	0.939	---	-6.37	0.518	99.7	347.2	-18.2	0.182
4-3530	4-3890	0.338	268.7	19.5	11.31	1.189	99.8	0.422	1.618	326.3	530.8	0.935	---	-4.91	0.509	96.6	342.9	-14.5	0.173
4-3530	4-3910	0.332	269.4	15.8	10.33	1.189	100.3	0.425	1.618	324.7	534.9	0.930	---	-4.04	0.502	93.7	339.2	-11.9	0.172
4-3530	4-3930	0.332	270.5	12.7	9.65	1.190	101.0	0.430	1.621	322.8	538.7	0.924	---	-3.47	0.496	91.0	336.6	-9.9	0.175
4-3530	4-3950	0.337	271.9	9.9	9.14	1.191	101.7	0.437	1.628	320.6	542.1	0.916	2.339	-3.08	0.491	88.4	335.1	-8.3	0.182
4-3530	4-3970	0.345	273.5	7.4	8.74	1.192	102.6	0.446	1.636	318.2	545.2	0.907	2.366	-2.79	0.487	85.9	334.6	-7.1	0.190
4-3530	4-3990	0.356	275.2	5.1	8.41	1.194	103.5	0.456	1.647	315.7	548.0	0.896	2.397	-2.57	0.484	83.5	335.1	-6.2	0.200
4-3530	4-4010	0.370	277.1	3.0	8.13	1.196	104.5	0.467	1.658	312.9	550.5	0.884	2.432	-2.41	0.481	81.1	336.2	-5.4	0.211
4-3530	4-4030	0.386	279.0	1.0	7.88	1.197	105.7	0.479	1.671	310.0	552.8	0.870	2.472	-2.29	0.479	78.8	338.0	-4.8	0.222
4-3530	4-4050	0.404	281.1	-0.7	7.66	1.199	106.9	0.493	1.684	306.9	554.8	0.855	2.514	-2.20	0.477	76.5	340.3	-4.4	0.234
4-3530	4-4070	0.425	283.1	-2.4	7.46	1.201	108.2	0.507	1.698	303.8	556.7	0.837	2.559	-2.13	0.476	74.2	343.0	-4.0	0.246
4-3530	4-4090	0.447	285.2	-3.9	7.27	1.203	109.6	0.523	1.712	300.4	558.4	0.818	2.607	-2.08	0.475	71.9	346.0	-3.6	0.258
4-3530	4-4110	0.471	287.3	-5.2	7.09	1.206	111.1	0.539	1.727	297.0	559.9	0.796	2.658	-2.05	0.475	69.6	349.2	-3.4	0.271
4-3530	4-4130	0.498	289.4	-6.5	6.92	1.208	112.7	0.557	1.742	293.5	561.2	0.772	2.712	-2.04	0.475	67.3	352.7	-3.1	0.284
4-3530	4-4150	0.527	291.5	-7.6	6.75	1.210	114.4	0.575	1.757	289.8	562.3	0.747	2.768	-2.04	0.476	65.0	356.4	-2.9	0.298
4-3530	4-4170	0.557	293.7	-8.6	6.58	1.212	116.2	0.595	1.773	286.0	562.3	0.718	2.827	-2.05	0.477	62.6	0.3	-2.8	0.312
4-3530	4-4190	0.590	295.9	-9.5	6.41	1.214	118.1	0.615	1.788	282.1	564.0	0.688	2.889	-2.08	0.479	60.2	4.3	-2.6	0.327
4-3530	4-4210	0.626	298.1	-10.2	6.23	1.216	120.1	0.637	1.804	278.0	564.7	0.655	2.954	-2.12	0.481	57.7	8.5	-2.5	0.343
4-3530	4-4230	0.664	300.3	-10.9	6.05	1.218	122.2	0.660	1.820	273.8	565.1	0.619	3.021	-2.18	0.483	55.2	12.8	-2.4	0.360
4-3530	4-4250	0.705	302.6	-11.5	5.85	1.220	124.5	0.684	1.836	269.4	565.3	0.580	3.092	-2.26	0.486	52.6	17.3	-2.3	0.378
4-3530	4-4270	0.748	304.9	-12.0	5.64	1.222	127.0	0.709	1.852	264.9	565.3	0.539	3.165	-2.36	0.489	49.9	21.9	-2.2	0.397
4-3530	4-4290	0.795	307.3	-12.4	5.41	1.224	129.7	0.735	1.869	260.1	565.1	0.495	3.242	-2.49	0.493	47.0	26.7	-2.2	0.417

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3530	4-4310	0.845	309.7	-12.7	5.15	1.226	132.5	0.762	1.885	255.1	566.7	0.449	3.322	-2.64	0.497	44.1	31.6	-2.1	0.439
4-3530	4-4330	0.898	312.3	-13.0	4.86	1.227	135.5	0.790	1.902	249.8	564.0	0.400	3.404	-2.84	0.502	41.0	36.7	-2.0	0.463
4-3540	4-3680	0.543	268.4	-13.8	3.79	1.433	105.6	1.02241.201		329.1	457.9	0.915	---	4.12	0.976	139.7	360.0	3.5	0.744
4-3540	4-3700	0.446	267.9	-14.1	3.13	1.354	103.4	0.818	5.093	330.2	465.5	0.927	---	4.56	0.855	135.3	2.3	4.5	0.606
4-3540	4-3720	0.375	266.8	-15.6	2.30	1.301	101.5	0.683	2.953	331.8	473.3	0.937	---	5.18	0.766	130.7	4.1	6.0	0.500
4-3540	4-3740	0.323	265.3	-18.7	1.20	1.264	99.9	0.591	2.311	333.1	481.2	0.946	---	6.08	0.700	126.1	5.3	8.3	0.417
4-3540	4-3760	0.287	263.6	-24.9	-0.36	1.239	98.7	0.528	2.017	334.5	489.0	0.952	---	7.46	0.650	121.6	5.6	11.8	0.353
4-3540	4-3780	0.268	261.7	-36.2	-2.85	1.221	97.9	0.485	1.857	335.6	496.5	0.957	---	9.76	0.612	117.2	4.7	17.5	0.307
4-3540	4-3800	0.284	260.3	-56.7	-7.49	1.209	97.2	0.455	1.762	336.7	503.5	0.960	---	14.23	0.583	113.1	1.7	27.2	0.289
4-3540	4-3820	0.439	322.2	-87.4	-19.45	1.201	96.8	0.435	1.704	337.4	510.1	0.962	---	26.01	0.561	109.2	353.9	42.3	0.345
4-3540	4-3860	0.726	293.6	58.0	36.58	1.193	97.3	0.418	1.648	335.0	521.3	0.958	---	-30.38	0.530	102.5	348.1	-47.3	0.356
4-3540	4-3880	0.476	277.6	44.6	21.89	1.191	97.4	0.415	1.636	334.5	526.3	0.957	---	-15.84	0.520	99.3	348.2	-37.3	0.231
4-3540	4-3900	0.394	274.2	35.5	16.62	1.190	97.7	0.415	1.632	333.3	530.8	0.955	---	-10.73	0.511	96.4	344.9	-29.1	0.194
4-3540	4-3920	0.359	273.6	28.8	13.91	1.191	98.2	0.418	1.633	331.8	534.9	0.951	---	-8.19	0.504	93.7	341.6	-23.2	0.182
4-3540	4-3940	0.342	274.2	23.5	12.25	1.191	98.8	0.422	1.637	329.9	538.6	0.946	---	-6.69	0.498	91.1	339.2	-18.9	0.179
4-3540	4-3960	0.336	275.4	19.1	11.11	1.192	99.5	0.429	1.644	327.7	541.9	0.940	2.349	-5.72	0.494	88.6	337.8	-15.6	0.182
4-3540	4-3980	0.336	277.1	15.2	10.26	1.194	100.3	0.436	1.654	325.3	544.9	0.932	2.375	-5.04	0.490	86.2	337.4	-13.2	0.188
4-3540	4-4000	0.341	278.9	11.9	9.60	1.195	101.2	0.445	1.664	322.8	547.7	0.924	2.405	-4.56	0.487	83.9	337.9	-11.3	0.196
4-3540	4-4020	0.349	281.0	8.8	9.06	1.197	102.2	0.455	1.676	320.1	550.2	0.913	2.439	-4.18	0.484	81.7	339.1	-9.8	0.205
4-3540	4-4040	0.361	283.1	6.2	8.60	1.199	103.3	0.466	1.689	317.2	552.5	0.902	2.478	-3.90	0.482	79.5	340.8	-8.7	0.214
4-3540	4-4060	0.375	285.3	3.7	8.20	1.201	104.4	0.478	1.702	314.2	554.6	0.889	2.518	-3.69	0.481	77.4	343.1	-7.7	0.224
4-3540	4-4080	0.391	287.5	1.6	7.85	1.203	105.6	0.491	1.716	311.1	556.5	0.874	2.558	-3.53	0.480	75.3	345.7	-7.0	0.235
4-3540	4-4100	0.410	289.8	-0.4	7.52	1.205	106.9	0.504	1.731	307.9	558.2	0.858	2.603	-3.41	0.479	73.2	348.6	-6.4	0.246
4-3540	4-4120	0.430	292.1	-2.1	7.22	1.207	108.3	0.519	1.745	304.6	559.8	0.840	2.651	-3.32	0.479	71.1	351.8	-5.9	0.257
4-3540	4-4140	0.453	294.3	-3.6	6.94	1.209	109.7	0.534	1.760	301.1	561.2	0.820	2.701	-3.26	0.479	69.0	355.2	-5.4	0.269
4-3540	4-4160	0.478	296.6	-5.0	6.67	1.211	111.2	0.551	1.775	297.6	562.4	0.798	2.753	-3.22	0.480	66.9	358.8	-5.1	0.281
4-3540	4-4180	0.504	298.9	-6.2	6.40	1.213	112.9	0.568	1.790	294.0	563.5	0.774	2.807	-3.21	0.481	64.7	2.5	-4.8	0.293
4-3540	4-4200	0.533	301.2	-7.3	6.14	1.215	114.6	0.586	1.806	290.3	564.4	0.747	2.864	-3.22	0.483	62.5	6.4	-4.5	0.306
4-3540	4-4220	0.564	303.4	-8.2	5.87	1.217	116.4	0.605	1.821	286.4	565.2	0.719	2.924	-3.25	0.485	60.3	10.5	-4.3	0.320
4-3540	4-4240	0.598	305.7	-9.0	5.61	1.219	118.3	0.626	1.837	282.4	565.9	0.688	2.986	-3.30	0.487	58.0	14.7	-4.1	0.335
4-3540	4-4260	0.633	308.0	-9.7	5.33	1.221	120.4	0.647	1.852	278.3	566.3	0.654	3.051	-3.37	0.490	55.7	19.0	-3.9	0.350
4-3540	4-4280	0.672	310.4	-10.3	5.04	1.223	122.5	0.669	1.868	274.0	566.6	0.618	3.118	-3.47	0.494	53.3	23.4	-3.8	0.366
4-3540	4-4300	0.713	312.7	-10.7	4.72	1.224	124.9	0.693	1.884	269.5	566.7	0.579	3.189	-3.61	0.497	50.8	28.0	-3.6	0.384
4-3540	4-4320	0.757	315.1	-11.1	4.39	1.226	127.4	0.717	1.900	264.9	566.6	0.537	3.262	-3.77	0.501	48.1	32.7	-3.5	0.403
4-3540	4-4340	0.804	317.6	-11.4	4.02	1.228	130.0	0.743	1.916	260.0	566.3	0.492	3.339	-3.98	0.506	45.4	37.6	-3.4	0.424
4-3550	4-3670	0.610	270.7	-14.5	3.68	1.527	104.1	1.286-3.269		334.9	450.3	0.985	---	4.74	1.111	142.3	0.7	3.7	0.879
4-3550	4-3690	0.484	270.5	-14.7	3.04	1.416	101.9	0.97944.232		335.9	457.8	0.944	---	5.04	0.952	138.2	3.1	4.5	0.706
4-3550	4-3710	0.395	269.4	-15.7	2.32	1.342	99.9	0.784	4.411	337.3	465.7	0.953	---	5.48	0.837	133.8	5.1	5.7	0.576
4-3550	4-3730	0.331	267.7	-17.8	1.45	1.292	98.3	0.656	2.792	339.0	473.8	0.961	---	6.03	0.752	129.2	6.7	7.4	0.475
4-3550	4-3750	0.286	265.5	-21.7	0.38	1.258	96.9	0.570	2.247	340.8	482.0	0.967	---	6.83	0.689	124.7	7.6	9.8	0.396
4-3550	4-3770	0.256	263.1	-28.2	-1.02	1.234	95.9	0.511	1.987	342.5	489.9	0.971	---	7.97	0.642	120.3	7.6	13.2	0.336
4-3550	4-3790	0.241	260.7	-38.4	-2.99	1.218	95.2	0.471	1.843	343.8	497.5	0.974	---	9.69	0.607	116.0	6.5	18.3	0.293
4-3550	4-3810	0.248	258.2	-53.6	-6.01	1.207	94.7	0.445	1.758	344.7	504.5	0.976	---	12.47	0.579	112.0	3.8	25.6	0.268
4-3550	4-3830	0.303	255.4	-74.3	-11.37	1.200	94.4	0.427	1.706	345.3	511.0	0.977	---	17.59	0.559	108.3	359.0	35.8	0.274
4-3550	4-3850	0.492	71.1	-80.7	-23.50	1.196	94.2	0.416	1.674	345.7	517.0	0.978	---	29.49	0.542	104.8	351.1	46.8	0.354
4-3550	4-3890	0.969	317.1	67.9	51.09	1.191	95.6	0.411	1.647	340.6	528.6	0.971	---	-45.54	0.520	99.0	348.5	-49.5	0.482
4-3550	4-3910	0.584	284.7	55.6	28.71	1.191	95.7	0.410	1.644	340.3	531.1	0.970	---	-23.37	0.512	96.1	346.7	-45.4	0.283
4-3550	4-3930	0.450	278.6	45.2	20.64	1.191	96.1	0.412	1.646	338.9	535.1	0.968	---	-15.51	0.505	93.4	344.2	-37.4	0.222
4-3550	4-3950	0.389	277.5	37.2	16.60	1.192	96.7	0.416	1.651	337.1	538.7	0.964	---	-11.69	0.500	90.9	341.9	-30.4	0.200
4-3550	4-3970	0.359	278.1	30.7	14.16	1.193	97.4	0.422	1.659	334.9	541.9	0.959	2.359	-9.46	0.495	88.6	340.6	-24.9	0.193
4-3550	4-3990	0.343	279.5	25.2	12.51	1.195	98.1	0.429	1.669	332.6	544.9	0.954	2.384	-8.02	0.492	86.4	340.2	-20.8	0.193
4-3550	4-4010	0.337	281.4	20.5	11.30	1.196	99.0	0.437	1.680	330.0	547.6	0.947	2.414	-7.03	0.489	84.2	340.7	-17.6	0.197
4-3550	4-4030	0.338	283.6	16.3	10.36	1.198	99.9	0.445	1.693	327.3	550.0	0.939	2.448	-6.31	0.487	82.1	341.9	-15.1	0.203
4-3550	4-4050	0.342	286.0	12.6	9.60	1.200	100.9	0.455	1.706	324.5	552.3	0.930	2.482	-5.78	0.485	80.1	343.6	-13.2	0.211
4-3550	4-4070	0.351	288.4	9.4	8.96	1.202	102.0	0.466	1.719	321.5	554.4	0.919	2.520	-5.37	0.484	78.1	345.8	-11.7	0.219
4-3550	4-4090	0.363	291.0	6.5	8.41	1.204	103.1	0.477	1.733	318.5	556.3	0.907	2.560	-5.06	0.483	76.1	348.3	-10.5	0.227
4-3550	4-4110	0.377	293.5	4.0	7.92	1.206	104.3	0.489	1.748	315.4	558.1	0.893	2.603	-4.81	0.482	74.2	351.2	-9.5	0.237
4-3550	4-4130	0.393	296.0	1.8	7.48	1.208	105.6	0.502	1.763	312.1	559.7	0.878	2.647	-4.63	0.482	72.2	354.3	-8.7	0.246
4-3550	4-4150	0.412	298.5	-0.2	7.08	1.210	106.9	0.515	1.778	308.8	561.2	0.862	2.694	-4.49	0.483	70.3	357.6	-8.0	0.256
4-3550	4-4170	0.433	301.0	-1.9	6.70	1.212	108.3	0.530	1.793	305.4	562.5	0.843	2.742	-4.39	0.484	68.4	1.1	-7.4	0.267
4-3550	4-4190	0.456	303.5	-3.4	6.33	1.214	109.7	0.545	1.808	301.9	563.7	0.823	2.793	-4.32	0.485	66.4	4.8	-6.9	0.277
4-3550	4-4210	0.481	305.9	-4.7	5.98	1.216	111.3	0.561	1.823	298.3	564.8	0.801	2.845	-4.29	0.487	64.4	8.6	-6.5	0.289
4-3550	4-4230	0.508	308.3	-5.9	5.63	1.218	112.9	0.578	1.838	294.6	565.7	0.776	2.900	-4.28	0.489	62.4	12.6	-6.2	0.301
4-3550	4-4250	0.537	310.8	-6.8	5.29	1.219	114.7	0.596	1.853	290.9	566.5	0.750	2.957	-4.30	0.491	60.4	16.6	-5.9	0.313
4-3550	4-4270	0.568	313.1	-7.7	4.94	1.221	116.5	0.614	1.869	286.9	567.2	0.721	3.016	-4.35	0.494	58.3	20.8	-5.6	0.327
4-3550	4-4290	0.602	315.5	-8.3	4.58	1.223	118.4	0.634	1.884	282.9	567.7	0.689	3.078	-4.42	0.498	56.1	25.1	-5.4	0.341
4-3550	4-4310	0.638	317.9	-8.9	4.21	1.225	120.5	0.655	1.899	278.7	568.0	0.655	3.143	-4.53	0.501	53.9	29.6	-5.2	0.356
4-3550	4-4330	0.677	320.4	-9.4	3.81	1.227	122.7	0.677	1.915	274.3	568.2	0.618	3.211	-4.68	0.505	51.6	34.1	-5.0	0.373
4-3550	4-4350	0.719	322.8	-9.7	3.39	1.228	125.1	0.700	1.930	269.7	568.2	0.578	3.282	-4.87	0.510	49.2	38.8	-4.8	0.391
4-3560	4-3680	0.544	271.7	-14.9	3.12	1.499	100.0	1.217-4.428		341.9	460.4	0.962	---	5.50	1.075	140.9	3.8	4.5	0.831
4-3560	4-3700	0.429	270.7	-15.6	2.43	1.396	98.1	0.92813.501		343.2	458.3	0.969	---	5.75	0.924	136.7	5.9	5.5	0.667
4-3560	4-3720	0.349	268.7	-17.1	1.67	1.327	96.4	0.746	3.837	345.1	466.6	0.975	---	6.12	0.815	132.2	7.7	6.8	0.544
4-3560	4-3740	0.293	265.9	-19.9	0.81	1.281	94.9	0.627	2.626	347.1	475.0	0.979	---	6.61	0.736	127.7	8.9	8.6	0.449
4-3560	4-3760	0.255	262.7	-24.3	-0.22	1.250	93.8	0.548	2.174	349.2	483.4	0.983	---	7.28	0.677	123.2	9.5	11.0	0.375
4-3560	4-3780	0.231	259.4	-31.0	-1.48	1.229	93.0	0.495	1.950	351.0	491.5	0.985	---	8.21	0.633	118.9	9.2	14.4	0.319
4-3560	4-3800	0.220	256.0	-40.2	-3.10	1.214	92.4	0.459	1.824	352.4	499.1	0.986	---	9.52	0.599	114.7	7.7	18.9	0.278
4-3560	4-3820	0.225	252.3	-52.5	-5.32	1.204	92.0	0.436	1.748	353.3	506.1	0.987	---	11.44	0.574	110.8	4.9	25.0	0.252
4-3560	4-3840	0.255	247.1	-67.4	-8.64	1.198	91.8	0.420	1.703	353.8	512.4	0.987	---	14.47	0.555	107.2	0.8	32.6	0.246
4-3560	4-3860	0.331	221.3	-84.0	-14.22	1.194	91.8	0.411	1.676	353.8	518.2	0.987	---	19.77	0.540	103.8	355.4	41.3	0.269
4-3560	4-3880	0.520	84.0	-75.4	-25.53	1.192	91.8	0.405	1.661	353.7	523.5	0.987	---	30.81	0.528	100.7	349.6	48.8	0.353

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3560	4-3900	1.034	72.6	-49.8	-55.23	1.191	91.6	0.403	1.654	354.5	528.4	0.988	---	60.24	0.519	97.6	346.3	47.2	0.609
4-3560	4-3920	1.230	354.2	73.3	67.25	1.191	94.2	0.407	1.653	345.5	531.3	0.980	---	-82.50	0.511	95.9	349.6	-46.5	0.622
4-3560	4-3940	0.719	292.4	65.2	36.67	1.191	94.2	0.408	1.657	345.6	535.4	0.980	---	-32.18	0.505	93.1	348.4	-49.2	0.355
4-3560	4-3960	0.520	281.9	53.8	25.09	1.192	94.6	0.412	1.663	344.2	539.0	0.978	---	-20.85	0.500	90.7	345.7	-43.0	0.261
4-3560	4-3980	0.428	280.1	44.8	19.43	1.194	95.2	0.417	1.672	342.2	542.1	0.975	2.369	-15.44	0.497	88.5	344.0	-35.9	0.225
4-3560	4-4000	0.380	280.8	37.3	16.09	1.195	95.9	0.423	1.683	339.9	545.0	0.971	2.394	-12.35	0.493	86.3	343.3	-29.9	0.211
4-3560	4-4020	0.354	282.6	31.0	13.86	1.197	96.8	0.430	1.695	337.4	547.7	0.966	2.423	-10.38	0.491	84.3	343.6	-25.2	0.207
4-3560	4-4040	0.340	284.9	25.5	12.26	1.199	97.6	0.438	1.707	334.7	550.1	0.960	2.455	-9.03	0.489	82.3	344.7	-21.4	0.208
4-3560	4-4060	0.335	287.5	20.6	11.03	1.201	98.6	0.446	1.721	331.9	552.3	0.953	2.489	-8.06	0.487	80.4	346.4	-18.6	0.212
4-3560	4-4080	0.335	290.2	16.3	10.04	1.203	99.6	0.456	1.735	329.0	554.4	0.945	2.526	-7.33	0.486	78.6	348.5	-16.3	0.217
4-3560	4-4100	0.341	293.1	12.6	9.22	1.205	100.6	0.465	1.750	326.0	556.3	0.935	2.564	-6.78	0.485	76.7	351.0	-14.5	0.224
4-3560	4-4120	0.349	296.0	9.3	8.52	1.207	101.8	0.476	1.764	322.9	558.0	0.924	2.604	-6.36	0.485	74.9	353.8	-13.0	0.231
4-3560	4-4140	0.361	298.9	6.4	7.90	1.209	102.9	0.487	1.779	319.7	559.7	0.912	2.646	-6.02	0.486	73.1	356.9	-11.8	0.239
4-3560	4-4160	0.376	301.7	3.9	7.35	1.210	104.2	0.499	1.794	316.5	561.2	0.899	2.690	-5.77	0.486	71.3	0.1	-10.8	0.247
4-3560	4-4180	0.393	304.5	1.7	6.84	1.212	105.4	0.512	1.809	313.2	562.6	0.883	2.735	-5.57	0.487	69.6	3.5	-10.0	0.256
4-3560	4-4200	0.412	307.3	-0.2	6.37	1.214	106.8	0.525	1.824	309.8	563.9	0.866	2.782	-5.42	0.489	67.8	7.1	-9.3	0.265
4-3560	4-4220	0.433	310.0	-1.8	5.92	1.216	108.2	0.539	1.839	306.4	565.0	0.848	2.831	-5.31	0.490	66.0	10.9	-8.7	0.274
4-3560	4-4240	0.456	312.6	-3.2	5.49	1.218	109.7	0.554	1.854	302.8	566.1	0.827	2.882	-5.25	0.493	64.1	14.7	-8.2	0.285
4-3560	4-4260	0.482	315.3	-4.4	5.07	1.220	111.3	0.569	1.869	299.2	567.0	0.805	2.934	-5.21	0.495	62.3	18.7	-7.7	0.296
4-3560	4-4280	0.509	317.8	-5.4	4.65	1.221	112.9	0.586	1.885	295.4	567.9	0.780	2.989	-5.22	0.498	60.4	22.8	-7.4	0.307
4-3560	4-4300	0.539	320.3	-6.3	4.23	1.223	114.7	0.603	1.900	291.5	568.5	0.753	3.048	-5.25	0.502	58.5	27.0	-7.0	0.319
4-3560	4-4320	0.570	322.9	-6.9	3.81	1.225	116.5	0.622	1.914	287.5	569.1	0.724	3.105	-5.32	0.505	56.5	31.3	-6.7	0.333
4-3560	4-4340	0.605	325.3	-7.5	3.37	1.226	118.5	0.641	1.929	283.4	569.5	0.692	3.167	-5.42	0.510	54.4	35.7	-6.5	0.347
4-3560	4-4360	0.642	327.8	-7.9	2.91	1.228	120.6	0.662	1.944	279.1	569.7	0.657	3.232	-5.57	0.514	52.3	40.3	-6.3	0.363
4-3570	4-3670	0.639	271.4	-15.0	3.33	1.618	97.2	1.589	-1.662	348.3	443.6	0.979	---	6.01	1.237	143.3	4.4	4.5	0.992
4-3570	4-3690	0.484	270.6	-15.4	2.64	1.469	95.6	1.139	-7.068	349.5	451.2	0.982	---	6.11	1.034	139.4	6.4	5.3	0.780
4-3570	4-3710	0.381	268.4	-16.5	1.91	1.374	94.0	0.873	7.736	351.3	459.5	0.986	---	6.30	0.893	135.2	8.3	6.3	0.627
4-3570	4-3730	0.311	265.0	-18.6	1.13	1.311	92.6	0.705	3.357	353.6	468.3	0.989	---	6.58	0.791	130.7	9.7	7.7	0.511
4-3570	4-3750	0.265	260.9	-21.8	0.28	1.269	91.5	0.598	2.461	356.1	477.1	0.990	---	6.98	0.717	126.2	10.7	9.6	0.422
4-3570	4-3770	0.234	256.4	-26.5	-0.69	1.241	90.6	0.527	2.094	358.4	485.7	0.991	---	7.53	0.662	121.7	10.8	12.1	0.353
4-3570	4-3790	0.216	252.0	-32.9	-1.83	1.222	89.9	0.480	1.906	0.3	133.8	---	---	8.27	0.621	117.4	10.1	15.3	0.301
4-3570	4-3810	0.210	247.7	-40.9	-3.20	1.209	89.5	0.449	1.798	1.7	141.4	---	---	9.27	0.590	113.3	8.2	19.4	0.262
4-3570	4-3830	0.214	243.3	-50.7	-4.96	1.200	89.3	0.428	1.734	2.5	148.2	---	---	10.67	0.567	109.5	5.2	24.6	0.238
4-3570	4-3850	0.233	237.5	-62.0	-7.31	1.195	89.2	0.416	1.695	2.7	154.4	---	---	12.68	0.549	106.0	1.1	30.6	0.227
4-3570	4-3870	0.274	225.1	-74.3	-10.71	1.192	89.3	0.408	1.673	2.5	159.9	---	---	15.75	0.536	102.8	356.5	37.3	0.234
4-3570	4-3890	0.357	160.8	-83.2	-16.14	1.190	89.5	0.404	1.662	1.9	164.9	---	---	20.87	0.525	99.8	352.0	44.0	0.266
4-3570	4-3910	0.528	94.4	-72.8	-26.20	1.189	89.7	0.402	1.658	1.2	169.4	---	---	30.63	0.517	97.0	349.0	49.3	0.345
4-3570	4-3930	0.924	81.8	-53.0	-48.85	1.190	89.7	0.403	1.659	1.2	173.7	---	---	52.98	0.510	94.2	349.9	48.9	0.539
4-3570	4-3970	0.884	302.3	74.4	46.31	1.192	92.7	0.410	1.673	350.5	539.4	0.987	---	-42.76	0.500	90.4	353.3	-49.8	0.445
4-3570	4-3990	0.605	283.8	61.6	30.23	1.193	93.1	0.414	1.683	349.2	542.5	0.986	2.380	-28.96	0.497	88.2	349.6	-46.5	0.311
4-3570	4-4010	0.475	281.4	51.6	22.52	1.195	93.8	0.419	1.694	347.2	545.3	0.984	2.405	-19.53	0.494	86.2	347.7	-40.1	0.256
4-3570	4-4030	0.406	282.3	43.4	18.09	1.197	94.5	0.425	1.707	344.8	547.9	0.981	2.434	-15.38	0.492	84.2	347.3	-34.0	0.232
4-3570	4-4050	0.367	284.5	36.3	15.20	1.199	95.4	0.432	1.721	342.2	550.3	0.977	2.465	-12.78	0.490	82.4	347.9	-28.9	0.222
4-3570	4-4070	0.344	287.3	30.2	13.16	1.201	96.3	0.440	1.735	339.4	552.4	0.972	2.498	-11.02	0.489	80.6	349.4	-24.8	0.219
4-3570	4-4090	0.333	290.4	24.7	11.61	1.203	97.2	0.448	1.749	336.5	554.5	0.966	2.533	-9.76	0.488	78.8	351.3	-21.6	0.221
4-3570	4-4110	0.328	293.7	19.9	10.39	1.205	98.2	0.457	1.764	333.8	556.4	0.959	2.570	-8.82	0.488	77.1	353.7	-19.0	0.224
4-3570	4-4130	0.330	297.1	15.6	9.38	1.207	99.3	0.466	1.779	330.5	558.1	0.950	2.608	-8.11	0.488	75.4	356.4	-16.9	0.229
4-3570	4-4150	0.336	300.4	11.9	8.53	1.209	100.4	0.476	1.794	327.4	559.8	0.941	2.648	-7.56	0.488	73.8	359.4	-15.3	0.234
4-3570	4-4170	0.345	303.7	8.7	7.78	1.210	101.5	0.486	1.810	324.2	561.3	0.930	2.689	-7.13	0.489	72.1	2.6	-13.9	0.241
4-3570	4-4190	0.357	306.9	5.9	7.12	1.212	102.7	0.497	1.825	321.0	562.8	0.918	2.732	-6.79	0.490	70.5	6.0	-12.7	0.248
4-3570	4-4210	0.372	310.1	3.5	6.52	1.214	104.0	0.509	1.840	317.7	564.1	0.904	2.776	-6.53	0.492	68.8	9.5	-11.8	0.255
4-3570	4-4230	0.390	313.2	1.4	5.96	1.216	105.3	0.521	1.855	314.3	565.3	0.889	2.821	-6.33	0.494	67.2	13.1	-11.0	0.263
4-3570	4-4250	0.409	316.2	-0.3	5.43	1.218	106.6	0.534	1.870	310.9	566.5	0.872	2.868	-6.18	0.496	65.5	16.9	-10.3	0.272
4-3570	4-4270	0.431	319.1	-1.8	4.93	1.220	108.1	0.547	1.885	307.4	567.5	0.853	2.917	-6.07	0.499	63.8	20.8	-9.7	0.281
4-3570	4-4290	0.455	321.9	-3.1	4.45	1.221	109.6	0.562	1.900	303.8	568.5	0.833	2.967	-6.01	0.502	62.1	24.8	-9.2	0.291
4-3570	4-4310	0.481	324.6	-4.1	3.97	1.223	111.2	0.577	1.915	300.0	569.3	0.810	3.019	-5.98	0.506	60.4	28.9	-8.7	0.302
4-3570	4-4330	0.509	327.3	-4.9	3.49	1.225	112.9	0.593	1.930	296.2	570.0	0.785	3.074	-5.99	0.509	58.6	33.1	-8.3	0.313
4-3570	4-4350	0.539	330.0	-5.6	3.01	1.226	114.6	0.610	1.944	292.3	570.6	0.758	3.130	-6.05	0.514	56.8	37.4	-8.0	0.326
4-3570	4-4370	0.572	332.6	-6.1	2.52	1.228	116.5	0.628	1.959	288.2	571.1	0.728	3.190	-6.14	0.518	54.9	41.9	-7.7	0.339
4-3580	4-3680	0.576	269.2	-15.3	2.96	1.574	92.3	1.461	-2.151	356.2	444.7	0.992	---	8.57	1.181	142.1	6.9	5.1	0.929
4-3580	4-3700	0.436	266.9	-16.1	2.21	1.438	91.1	1.054	18.427	357.9	452.9	0.993	---	6.59	0.991	138.0	8.6	6.0	0.730
4-3580	4-3720	0.346	263.0	-17.6	1.45	1.351	89.8	0.814	5.331	0.3	101.8	---	---	6.70	0.859	133.7	10.2	7.1	0.586
4-3580	4-3740	0.288	258.1	-20.0	0.67	1.294	88.7	0.664	2.959	3.2	111.0	---	---	6.90	0.764	129.1	11.3	8.6	0.477
4-3580	4-3760	0.251	252.6	-23.3	-0.17	1.256	87.8	0.569	2.302	6.0	120.1	---	---	7.20	0.695	124.6	11.7	10.5	0.394
4-3580	4-3780	0.229	247.3	-27.7	-1.09	1.231	87.2	0.508	2.011	8.4	128.9	---	---	7.62	0.645	120.1	11.4	12.9	0.331
4-3580	4-3800	0.217	242.4	-33.2	-2.12	1.214	86.7	0.467	1.856	10.3	137.0	---	---	8.19	0.607	115.9	10.2	16.0	0.283
4-3580	4-3820	0.213	237.9	-39.7	-3.32	1.203	86.5	0.441	1.767	11.6	144.3	---	---	8.96	0.579	111.9	7.9	19.8	0.248
4-3580	4-3840	0.216	233.8	-47.3	-4.75	1.196	86.4	0.424	1.715	12.2	150.9	---	---	9.99	0.558	108.1	4.5	24.2	0.225
4-3580	4-3860	0.229	229.1	-56.0	-6.55	1.191	86.5	0.414	1.684	12.1	156.8	---	---	11.40	0.543	104.7	0.4	29.1	0.213
4-3580	4-3880	0.253	221.9	-65.5	-8.90	1.189	86.6	0.407	1.667	11.6	162.0	---	---	13.39	0.530	101.6	356.0	34.2	0.214
4-3580	4-3900	0.298	204.6	-74.9	-12.21	1.187	86.9	0.404	1.660	10.7	166.7	---	---	16.34	0.521	98.7	352.1	39.4	0.228
4-3580	4-3920	0.376	152.5	-79.8	-17.26	1.187	87.3	0.403	1.659	9.4	170.9	---	---	21.05	0.513	96.1	349.4	44.5	0.262
4-3580	4-3940	0.524	105.1	-72.1	-25.94	1.188	87.6	0.404	1.663	8.2	174.7	---	---	29.40	0.508	93.6	348.9	48.8	0.331
4-3580	4-3960	0.829	90.9	-56.5	-43.37	1.189	87.9	0.406	1.670	7.4	178.3	---	---	46.52	0.503	91.1	352.5	49.7	0.479
4-3580	4-4000	1.083	327.6	83.5	58.28	1.192	91.5	0.413	1.691	354.9	542.9	0.993	2.390	-55.74	0.496	88.0	0.6	-48.0	0.552
4-3580	4-4020	0.712	283.3	69.1	36.45	1.194	91.8	0.418	1.704	354.0	545.8	0.992	2.416	-34.22	0.494	85.9	355.7	-48.4	0.370
4-3580	4-4040	0.533	281.0	57.8	26.03	1.196	92.4	0.423	1.718	352.0	548.3	0.991	2.444	-24.10	0.492	84.0	352.9	-43.3	0.291
4-3580	4-4060	0.437	282.5	48.8	20.23	1.198	93.1	0.429	1.732	349.6	550.6	0.989	2.475	-18.60	0.491	82.2	352.2	-37.4	0.255
4-3580	4-4080	0.382	285.3	41.1	16.56	1.200	94.0	0.436	1.747	346.9	552.7	0.986	2.508	-15.23	0.490	80.5	352.9	-32.1	0.239
4-3580	4-4100	0.350	288.7	34.4	14.01	1.202	94.9	0.443	1.762	344.1	554.7	0.982	2.542	-12.98	0.490	78.9	354.5	-27.7	0.232

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3580	4-4120	0.331	292.5	28.4	12.12	1.204	95.8	0.450	1.777	341.2	558.6	0.977	2.578	-11.39	0.490	77.3	356.6	-24.2	0.230
4-3580	4-4140	0.321	296.3	23.1	10.64	1.206	96.8	0.458	1.793	338.2	558.3	0.971	2.614	-10.22	0.490	75.7	359.2	-21.4	0.231
4-3580	4-4160	0.319	300.2	18.4	9.44	1.208	97.9	0.467	1.808	335.1	560.0	0.964	2.652	-9.33	0.491	74.2	2.0	-19.1	0.234
4-3580	4-4180	0.321	304.1	14.3	8.43	1.210	98.9	0.476	1.824	332.0	561.5	0.956	2.691	-8.65	0.492	72.6	5.1	-17.2	0.238
4-3580	4-4200	0.328	307.9	10.7	7.56	1.212	100.1	0.485	1.839	328.8	563.0	0.947	2.732	-8.11	0.493	71.1	8.4	-15.7	0.243
4-3580	4-4220	0.338	311.6	7.6	6.79	1.214	101.2	0.495	1.855	325.6	564.3	0.936	2.773	-7.69	0.495	69.6	11.8	-14.4	0.249
4-3580	4-4240	0.351	315.2	5.0	6.10	1.216	102.5	0.506	1.870	322.3	565.6	0.924	2.815	-7.35	0.497	68.1	15.4	-13.4	0.255
4-3580	4-4260	0.367	318.7	2.8	5.47	1.217	103.7	0.517	1.885	318.9	566.9	0.911	2.859	-7.09	0.500	66.6	19.1	-12.4	0.262
730																			
4-3580	4-4280	0.385	322.0	0.9	4.88	1.219	105.1	0.529	1.900	315.5	568.0	0.895	2.904	-6.89	0.503	65.0	22.9	-11.7	0.270
4-3580	4-4300	0.405	325.2	-0.6	4.31	1.221	106.4	0.541	1.915	312.0	569.0	0.878	2.951	-6.74	0.506	63.5	26.9	-11.0	0.278
4-3580	4-4320	0.428	328.3	-1.9	3.77	1.222	107.9	0.554	1.930	308.4	570.0	0.860	2.999	-6.64	0.509	61.9	30.9	-10.4	0.287
4-3580	4-4340	0.452	331.3	-2.9	3.24	1.224	109.4	0.568	1.944	304.8	570.8	0.839	3.049	-6.58	0.513	60.4	35.0	-9.9	0.297
4-3580	4-4360	0.479	334.2	-3.7	2.72	1.226	111.0	0.583	1.959	301.0	571.6	0.816	3.101	-6.57	0.518	58.7	39.3	-9.5	0.308
4-3580	4-4380	0.508	337.0	-4.4	2.20	1.227	112.8	0.599	1.973	297.1	572.2	0.791	3.155	-6.59	0.522	57.1	43.6	-9.1	0.319
4-3590	4-3690	0.529	264.7	-15.8	2.61	1.528	87.2	1.326	-3.053	5.0	86.8	---	---	7.02	1.121	141.0	8.8	5.7	0.865
4-3590	4-3710	0.407	260.5	-16.9	1.82	1.404	86.3	0.966	28.950	7.4	95.7	---	---	6.95	0.944	136.8	10.3	6.6	0.680
4-3590	4-3730	0.331	255.0	-18.6	1.03	1.326	85.5	0.754	4.030	10.5	105.2	---	---	6.97	0.822	132.2	11.4	7.8	0.545
4-3590	4-3750	0.285	248.9	-20.9	0.24	1.275	84.7	0.625	2.629	13.8	114.9	---	---	7.08	0.735	127.6	12.1	9.3	0.445
4-3590	4-3770	0.258	243.1	-23.9	-0.58	1.242	84.1	0.544	2.152	16.9	124.3	---	---	7.28	0.672	123.0	12.1	11.2	0.368
4-3590	4-3790	0.242	237.8	-27.6	-1.44	1.220	83.6	0.492	1.926	19.4	133.0	---	---	7.59	0.626	118.5	11.2	13.6	0.309
4-3590	4-3810	0.234	233.5	-31.9	-2.39	1.205	83.4	0.459	1.803	21.1	140.9	---	---	8.01	0.592	114.2	9.4	16.5	0.266
4-3590	4-3830	0.231	230.0	-37.0	-3.44	1.196	83.3	0.438	1.732	22.1	147.9	---	---	8.58	0.567	110.3	6.5	19.8	0.234
4-3590	4-3850	0.233	226.9	-42.9	-4.65	1.190	83.4	0.424	1.691	22.4	154.2	---	---	9.34	0.548	106.6	2.9	23.5	0.214
4-3590	4-3870	0.240	223.9	-49.6	-6.08	1.186	83.6	0.415	1.668	22.0	159.6	---	---	10.35	0.534	103.3	358.7	27.4	0.203
4-3590	4-3890	0.254	219.9	-57.2	-7.84	1.185	83.9	0.410	1.657	21.1	164.5	---	---	11.71	0.523	100.3	354.6	31.4	0.201
4-3590	4-3910	0.279	213.1	-65.3	-10.11	1.184	84.3	0.408	1.654	19.8	168.8	---	---	13.60	0.515	97.5	351.0	35.3	0.208
4-3590	4-3930	0.319	197.5	-73.1	-13.20	1.185	84.8	0.407	1.657	18.2	172.7	---	---	16.32	0.509	95.0	348.6	39.3	0.225
4-3590	4-3950	0.389	159.5	-77.5	-17.72	1.186	85.3	0.408	1.663	16.4	176.2	---	---	20.50	0.504	92.6	347.8	43.4	0.256
4-3590	4-3970	0.511	117.4	-72.8	-25.04	1.187	85.8	0.410	1.673	14.6	179.4	---	---	27.48	0.500	90.4	349.3	47.4	0.314
4-3590	4-3990	0.745	100.2	-60.5	-38.50	1.189	86.2	0.413	1.684	13.2	182.5	---	2.379	40.60	0.497	88.3	354.3	49.5	0.425
4-3590	4-4010	1.202	94.7	-41.1	-65.80	1.191	86.2	0.417	1.697	13.0	185.5	---	2.405	67.58	0.495	86.1	3.5	44.8	0.647
4-3590	4-4050	0.849	276.4	76.6	44.37	1.195	90.4	0.423	1.726	358.6	548.7	0.997	2.458	-43.22	0.492	83.7	3.8	-48.9	0.444
4-3590	4-4070	0.604	278.0	63.5	30.22	1.197	91.0	0.428	1.741	356.8	551.1	0.990	2.487	-29.37	0.491	81.9	359.5	-45.7	0.333
4-3590	4-4090	0.475	281.1	53.6	22.62	1.199	91.7	0.434	1.757	354.4	553.1	0.995	2.519	-22.08	0.491	80.3	358.0	-40.2	0.282
4-3590	4-4110	0.401	284.9	45.3	17.97	1.201	92.5	0.440	1.773	351.7	555.1	0.993	2.552	-17.73	0.491	78.8	358.5	-34.8	0.257
4-3590	4-4130	0.357	289.2	38.1	14.82	1.203	93.4	0.446	1.789	348.8	556.9	0.991	2.587	-14.90	0.491	77.2	360.0	-30.2	0.245
4-3590	4-4150	0.330	293.6	31.6	12.54	1.205	94.4	0.453	1.805	345.9	558.6	0.987	2.623	-12.93	0.492	75.8	2.2	-26.4	0.239
4-3590	4-4170	0.315	298.1	25.8	10.79	1.207	95.4	0.460	1.821	342.9	560.3	0.983	2.659	-11.50	0.493	74.3	4.8	-23.4	0.238
4-3590	4-4190	0.308	302.7	20.7	9.39	1.209	96.4	0.468	1.837	339.8	561.8	0.977	2.696	-10.42	0.494	72.9	7.7	-20.9	0.239
4-3590	4-4210	0.307	307.2	16.2	8.23	1.211	97.5	0.476	1.852	336.7	563.3	0.970	2.734	-9.59	0.496	71.5	10.9	-18.9	0.242
4-3590	4-4230	0.311	311.6	12.3	7.24	1.213	98.6	0.485	1.868	333.5	564.7	0.962	2.774	-8.93	0.498	70.1	14.2	-17.2	0.246
4-3590	4-4250	0.319	315.8	9.0	6.37	1.215	99.7	0.494	1.883	330.3	566.0	0.953	2.814	-8.42	0.500	68.7	17.7	-15.8	0.250
4-3590	4-4270	0.330	319.9	6.1	5.60	1.217	100.9	0.504	1.899	327.0	567.3	0.943	2.856	-8.01	0.503	67.3	21.4	-14.6	0.256
4-3590	4-4290	0.344	323.8	3.8	4.89	1.218	102.2	0.514	1.914	323.6	568.4	0.931	2.897	-7.68	0.506	66.0	25.1	-13.6	0.262
4-3590	4-4310	0.361	327.5	1.8	4.24	1.220	103.5	0.524	1.929	320.2	569.6	0.917	2.940	-7.43	0.509	64.6	29.0	-12.8	0.269
4-3590	4-4330	0.380	331.0	0.3	3.63	1.222	104.8	0.536	1.943	316.7	570.6	0.902	2.985	-7.24	0.513	63.2	33.0	-12.0	0.276
4-3590	4-4350	0.401	334.4	-1.0	3.04	1.223	106.2	0.548	1.958	313.2	571.6	0.885	3.031	-7.09	0.517	61.7	37.0	-11.4	0.284
4-3590	4-4370	0.424	337.7	-2.0	2.47	1.225	107.7	0.561	1.972	309.5	572.4	0.866	3.079	-7.00	0.522	60.3	41.2	-10.8	0.293
4-3590	4-4390	0.450	340.8	-2.8	1.92	1.226	109.3	0.575	1.987	305.7	573.2	0.845	3.128	-6.98	0.526	58.8	45.4	-10.4	0.303
4-3600	4-3700	0.506	258.1	-16.4	2.28	1.481	81.8	1.188	-5.222	15.0	90.2	---	---	7.37	1.058	140.0	10.1	6.2	0.804
4-3600	4-3720	0.402	252.4	-17.6	1.44	1.370	81.4	0.879	8.040	18.4	100.0	---	---	7.20	0.895	135.6	11.2	7.1	0.631
4-3600	4-3740	0.341	246.1	-19.2	0.64	1.300	80.9	0.699	3.224	22.1	110.1	---	---	7.13	0.782	130.9	11.9	8.3	0.506
4-3600	4-3760	0.305	240.1	-21.3	-0.16	1.256	80.5	0.591	2.355	25.8	120.2	---	---	7.14	0.702	126.0	12.1	9.8	0.413
4-3600	4-3780	0.285	235.0	-23.7	-0.96	1.227	80.1	0.525	2.013	28.9	129.5	---	---	7.25	0.645	121.3	11.4	11.7	0.343
4-3600	4-3800	0.273	230.9	-26.6	-1.78	1.208	80.0	0.483	1.842	31.2	138.0	---	---	7.44	0.604	116.8	9.9	14.0	0.290
4-3600	4-3820	0.266	227.8	-30.0	-2.64	1.195	79.9	0.456	1.748	32.6	145.5	---	---	7.74	0.574	112.5	7.5	16.6	0.250
4-3600	4-3840	0.262	225.4	-34.0	-3.58	1.188	80.0	0.439	1.694	33.1	152.1	---	---	8.15	0.552	108.6	4.2	19.4	0.223
4-3600	4-3860	0.262	223.6	-38.6	-4.61	1.183	80.3	0.428	1.664	32.9	157.8	---	---	8.69	0.536	105.0	0.2	22.5	0.205
4-3600	4-3880	0.264	222.0	-43.9	-5.79	1.181	80.6	0.421	1.649	32.1	162.8	---	---	9.41	0.524	101.8	356.1	25.5	0.195
4-3600	4-3900	0.271	220.2	-49.9	-7.16	1.180	81.1	0.417	1.644	30.8	167.3	---	---	10.38	0.515	98.8	352.4	28.4	0.193
4-3600	4-3920	0.283	217.4	-56.6	-8.83	1.180	81.6	0.415	1.645	29.1	171.2	---	---	11.63	0.508	96.1	349.3	31.2	0.196
4-3600	4-3940	0.304	212.1	-63.8	-10.94	1.181	82.1	0.414	1.651	27.2	174.7	---	---	13.35	0.503	93.7	347.4	34.2	0.206
4-3600	4-3960	0.339	200.3	-71.0	-13.73	1.183	82.7	0.415	1.661	25.0	177.9	---	---	15.78	0.500	91.5	346.6	37.5	0.223
4-3600	4-3980	0.396	172.7	-76.0	-17.67	1.185	83.4	0.416	1.672	22.8	180.8	---	2.368	19.37	0.497	89.4	347.4	41.1	0.250
4-3600	4-4000	0.493	132.7	-74.3	-23.72	1.187	84.0	0.418	1.686	20.6	183.6	---	2.391	25.08	0.494	87.4	350.0	45.0	0.296
4-3600	4-4020	0.671	110.5	-65.0	-34.09	1.189	84.5	0.421	1.701	18.6	186.1	---	2.417	35.11	0.493	85.6	355.7	48.3	0.379
4-3600	4-4040	1.011	103.0	-49.5	-54.03	1.191	84.8	0.426	1.716	17.4	188.6	---	2.448	54.73	0.492	83.7	5.5	47.5	0.541
4-3600	4-4080	1.028	240.1	83.1	54.98	1.196	89.2	0.429	1.749	2.7	191.4	---	2.498	-54.91	0.491	81.7	13.4	-47.6	0.538
4-3600	4-4100	0.697	270.7	68.8	35.54	1.198	89.6	0.434	1.765	1.4	193.6	---	2.531	-35.78	0.491	80.0	7.5	-47.2	0.385
4-3600	4-4120	0.522	277.9	57.8	25.41	1.200	90.3	0.439	1.782	359.1	565.5	0.999	2.564	-25.96	0.491	78.5	4.7	-42.5	0.312
4-3600	4-4140	0.424	283.4	48.8	19.49	1.202	91.1	0.445	1.798	356.4	567.3	0.999	2.598	-20.34	0.492	77.0	4.5	-37.1	0.276
4-3600	4-4160	0.366	288.6	41.0	15.62	1.204	92.0	0.450	1.815	353.6	559.0	0.998	2.633	-16.78	0.493	75.7	5.8	-32.3	0.258
4-3600	4-4180	0.330	293.9	34.1	12.89	1.206	92.9	0.457	1.832	350.6	560.6	0.995	2.668	-14.36	0.494	74.3	7.9	-28.3	0.249
4-3600	4-4200	0.308	299.2	27.9	10.84	1.208	93.9	0.463	1.848	347.8	562.2	0.992	2.704	-12.63	0.496	73.0	10.5	-25.0	0.245
4-3600	4-4220	0.297	304.5	22.3	9.23	1.210	94.9	0.470	1.864	344.5	563.6	0.988	2.740	-11.34	0.498	71.7	13.5	-22.3	0.244
4-3600	4-4240	0.292	309.6	17.5	7.91	1.212	96.0	0.477	1.880	341.4	565.0	0.983	2.777	-10.35	0.500	70.4	16.7	-20.2	0.246
4-3600	4-4260	0.294	314.7	13.3	6.80	1.214	97.1	0.485	1.896	338.2	566.4	0.976	2.815	-9.58	0.503	69.1	20.1	-18.4	0.248
4-3600	4-4280	0.300	319.5	9.7	5.85	1.216	98.2	0.493	1.911	335.0	567.7	0.968	2.854	-8.97	0.506	67.9	23.7	-16.9	0.252
4-3600	4-4300	0.309	324.1	6.7	5.00	1.217	99.4	0.502	1.926	331.7	568.9	0.960	2.893	-8.48	0.509	66.6	27.3	-15.6	0.256
4-3600	4-4320	0.322	328.5	4.2	4.24	1.219	100.6	0.511	1.942	328.4	570.1	0.949	2.934	-8.09	0.513	65.3	31.1	-14.5	0.262

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3600	4-4340	0.337	332.7	2.3	3.54	1.221	101.8	0.521	1.956	325.0	571.2	0.937	2.975	-7.78	0.516	64.0	35.0	-13.6	0.268
4-3600	4-4360	0.355	336.6	0.7	2.88	1.222	103.2	0.531	1.971	321.5	572.3	0.924	3.018	-7.54	0.521	62.8	39.0	-12.8	0.274
4-3600	4-4380	0.375	340.4	-0.6	2.26	1.224	104.5	0.542	1.985	317.9	573.2	0.909	3.062	-7.36	0.525	61.5	43.1	-12.1	0.282
4-3600	4-4400	0.397	343.9	-1.5	1.66	1.225	106.0	0.554	2.000	314.3	574.1	0.892	3.108	-7.23	0.530	60.1	47.3	-11.5	0.290
4-3610	4-3710	0.512	250.8	-16.9	1.95	1.434	76.3	1.05616.826		26.7	95.3	---	---	7.61	0.993	139.4	10.7	6.6	0.746
4-3610	4-3730	0.424	244.6	-18.1	1.07	1.335	76.3	0.800	4.686	31.0	105.9	---	---	7.33	0.843	134.6	11.3	7.5	0.585
4-3610	4-3750	0.375	238.7	-19.5	0.24	1.274	76.2	0.654	2.683	35.3	116.6	---	---	7.16	0.740	129.6	11.5	8.7	0.470
4-3610	4-3770	0.346	233.8	-21.3	-0.55	1.235	76.1	0.567	2.128	39.1	126.7	---	---	7.09	0.668	124.5	11.0	10.2	0.384
4-3610	4-3790	0.329	230.0	-23.3	-1.33	1.210	76.0	0.515	1.886	41.9	135.8	---	---	7.10	0.617	119.6	9.7	11.9	0.320
4-3610	4-3810	0.318	227.3	-25.7	-2.10	1.195	76.1	0.482	1.760	43.7	143.8	---	---	7.19	0.580	115.0	7.5	14.0	0.273
4-3610	4-3830	0.310	225.4	-28.4	-2.90	1.185	76.3	0.461	1.691	44.5	150.7	---	---	7.37	0.554	110.7	4.5	16.2	0.238
4-3610	4-3850	0.305	224.1	-31.6	-3.74	1.179	76.6	0.447	1.653	44.5	156.6	---	---	7.65	0.535	106.8	0.8	18.6	0.214
4-3610	4-3870	0.301	223.3	-35.3	-4.63	1.176	77.0	0.438	1.634	43.7	161.7	---	---	8.03	0.522	103.2	356.8	20.9	0.199
4-3610	4-3890	0.299	222.8	-39.5	-5.62	1.175	77.5	0.432	1.626	42.4	166.2	---	---	8.53	0.512	100.1	353.0	23.0	0.191
4-3610	4-3910	0.300	222.2	-44.3	-6.72	1.175	78.1	0.429	1.627	40.7	170.2	---	---	9.19	0.505	97.2	349.7	25.1	0.189
4-3610	4-3930	0.304	221.4	-49.6	-8.00	1.176	78.7	0.426	1.633	38.6	173.7	---	---	10.06	0.500	94.6	347.3	27.1	0.191
4-3610	4-3950	0.312	219.8	-55.6	-9.53	1.178	79.4	0.425	1.642	36.3	176.9	---	---	11.19	0.497	92.3	345.9	29.2	0.197
4-3610	4-3970	0.328	216.3	-62.1	-11.42	1.180	80.1	0.425	1.655	33.9	179.8	---	---	12.71	0.494	90.2	345.5	31.6	0.207
4-3610	4-3990	0.355	208.5	-68.9	-13.87	1.182	80.8	0.426	1.669	31.3	182.4	---	2.380	14.80	0.492	88.2	346.2	34.4	0.222
4-3610	4-4010	0.400	189.7	-74.7	-17.22	1.184	81.5	0.427	1.685	28.7	184.9	---	2.404	17.80	0.491	86.4	348.0	37.8	0.244
4-3610	4-4030	0.474	153.3	-76.2	-22.13	1.186	82.3	0.429	1.701	26.1	187.2	---	2.431	22.38	0.490	84.7	351.3	41.7	0.279
4-3610	4-4050	0.606	123.2	-70.1	-30.07	1.189	82.9	0.431	1.718	23.7	189.4	---	2.460	29.99	0.489	83.0	356.8	45.8	0.339
4-3610	4-4070	0.851	111.5	-57.9	-44.44	1.191	83.5	0.435	1.736	21.7	191.5	---	2.491	44.05	0.489	81.4	6.1	48.0	0.453
4-3610	4-4130	0.822	255.0	73.2	42.76	1.199	88.2	0.440	1.789	5.8	196.0	---	2.578	-44.06	0.491	78.1	16.9	-47.8	0.451
4-3610	4-4150	0.583	272.4	61.3	28.90	1.201	88.8	0.445	1.806	3.8	197.8	---	2.611	-30.50	0.492	76.7	12.2	-44.4	0.347
4-3610	4-4170	0.453	280.8	51.6	21.21	1.203	89.6	0.450	1.823	1.2	199.5	---	2.645	-23.11	0.493	75.4	11.0	-39.1	0.297
4-3610	4-4190	0.377	287.4	43.2	16.42	1.205	90.5	0.455	1.841	358.4	561.1	1.002	2.679	-18.62	0.495	74.1	11.8	-34.1	0.271
4-3610	4-4210	0.330	293.6	35.7	13.16	1.207	91.4	0.461	1.857	355.4	562.6	1.001	2.714	-15.68	0.497	72.9	13.8	-29.8	0.258
4-3610	4-4230	0.302	299.7	29.0	10.77	1.209	92.4	0.467	1.874	352.4	564.1	1.000	2.749	-13.58	0.499	71.7	16.3	-26.2	0.252
4-3610	4-4250	0.286	305.7	23.1	8.94	1.211	93.4	0.473	1.890	349.3	565.5	0.997	2.784	-12.06	0.502	70.5	19.3	-23.4	0.249
4-3610	4-4270	0.279	311.6	17.8	7.47	1.213	94.5	0.479	1.907	346.2	566.8	0.993	2.820	-10.91	0.505	69.3	22.6	-21.0	0.249
4-3610	4-4290	0.277	317.3	13.4	6.25	1.215	95.5	0.486	1.922	343.0	568.1	0.988	2.857	-10.01	0.508	68.1	26.0	-19.1	0.251
4-3610	4-4310	0.281	322.8	9.6	5.21	1.216	96.7	0.493	1.938	339.7	569.4	0.982	2.894	-9.31	0.512	67.0	29.6	-17.5	0.253
4-3610	4-4330	0.289	328.0	6.5	4.30	1.218	97.8	0.501	1.953	336.5	570.6	0.974	2.932	-8.75	0.516	65.8	33.3	-16.2	0.257
4-3610	4-4350	0.301	333.0	4.0	3.49	1.220	99.0	0.509	1.968	333.1	571.8	0.966	2.971	-8.30	0.520	64.7	37.2	-15.0	0.262
4-3610	4-4370	0.315	337.6	2.0	2.75	1.221	100.2	0.518	1.983	329.7	572.9	0.956	3.010	-7.94	0.524	63.5	41.1	-14.0	0.267
4-3610	4-4390	0.331	342.0	0.5	2.07	1.223	101.5	0.527	1.998	326.2	574.0	0.944	3.051	-7.65	0.529	62.3	45.2	-13.2	0.273
4-3610	4-4410	0.350	346.1	-0.7	1.42	1.224	102.9	0.538	2.012	322.6	575.0	0.930	3.093	-7.43	0.534	61.2	49.3	-12.5	0.280
4-3620	4-3720	0.547	244.4	-17.4	1.61	1.387	70.4	0.94014.895		40.4	102.4	---	---	7.75	0.926	139.0	10.3	6.8	0.693
4-3620	4-3740	0.471	238.8	-18.5	0.68	1.300	70.9	0.736	3.329	45.4	113.8	---	---	7.36	0.788	133.8	10.5	7.7	0.544
4-3620	4-3760	0.428	234.1	-19.8	-0.16	1.247	71.2	0.623	2.299	49.9	124.6	---	---	7.09	0.695	128.4	10.0	8.8	0.438
4-3620	4-3780	0.402	230.6	-21.3	-0.95	1.214	71.5	0.556	1.939	53.3	134.3	---	---	6.92	0.630	123.1	8.8	10.2	0.360
4-3620	4-3800	0.385	228.2	-23.1	-1.70	1.194	71.8	0.516	1.770	55.5	142.7	---	---	6.84	0.585	117.9	6.8	11.8	0.302
4-3620	4-3820	0.373	226.6	-25.2	-2.44	1.181	72.1	0.491	1.682	56.5	149.9	---	---	6.85	0.554	113.2	4.0	13.5	0.260
4-3620	4-3840	0.363	225.7	-27.5	-3.17	1.174	72.6	0.474	1.634	56.6	156.0	---	---	6.93	0.532	108.8	0.5	15.3	0.230
4-3620	4-3860	0.355	225.3	-30.1	-3.92	1.170	73.1	0.462	1.611	55.8	161.2	---	---	7.09	0.517	104.9	356.6	17.1	0.210
4-3620	4-3880	0.348	225.2	-33.1	-4.70	1.168	73.7	0.454	1.601	54.5	165.7	---	---	7.33	0.506	101.4	352.9	18.7	0.198
4-3620	4-3900	0.342	225.4	-36.4	-5.53	1.168	74.3	0.449	1.601	52.7	169.6	---	---	7.67	0.499	98.2	349.5	20.1	0.192
4-3620	4-3920	0.338	225.7	-40.2	-6.44	1.169	75.0	0.445	1.607	50.5	173.1	---	---	8.12	0.494	95.5	347.0	21.5	0.190
4-3620	4-3940	0.336	225.9	-44.4	-7.44	1.171	75.8	0.442	1.617	48.1	176.2	---	---	8.70	0.491	93.0	345.3	22.8	0.191
4-3620	4-3960	0.337	226.0	-49.1	-8.59	1.173	76.5	0.440	1.631	45.5	179.1	---	---	9.46	0.488	90.7	344.5	24.3	0.195
4-3620	4-3980	0.341	225.5	-54.4	-9.95	1.176	77.3	0.439	1.646	42.7	181.7	---	2.369	10.44	0.487	88.7	344.6	26.0	0.201
4-3620	4-4000	0.351	223.8	-60.3	-11.60	1.178	78.1	0.438	1.663	39.9	184.0	---	2.392	11.73	0.486	86.8	345.4	28.0	0.210
4-3620	4-4020	0.370	219.4	-66.6	-13.69	1.181	78.9	0.439	1.681	37.0	186.3	---	2.416	13.48	0.486	85.1	347.1	30.5	0.222
4-3620	4-4040	0.402	208.4	-72.8	-16.46	1.184	79.8	0.440	1.699	34.1	188.4	---	2.446	15.93	0.486	83.5	349.6	33.7	0.239
4-3620	4-4060	0.457	181.3	-77.2	-20.38	1.187	80.6	0.441	1.718	31.2	190.4	---	2.475	19.53	0.486	82.0	353.1	37.5	0.264
4-3620	4-4080	0.551	142.2	-75.3	-26.40	1.189	81.4	0.443	1.737	28.5	192.3	---	2.506	25.24	0.487	80.6	358.3	42.0	0.306
4-3620	4-4100	0.722	121.6	-66.2	-36.66	1.192	82.0	0.445	1.756	26.1	194.2	---	2.538	35.20	0.488	79.1	6.3	46.1	0.383
4-3620	4-4120	1.051	116.4	-51.0	-56.29	1.194	82.5	0.449	1.775	24.4	196.0	---	2.572	54.54	0.489	77.7	19.0	46.6	0.535
4-3620	4-4160	1.001	225.1	74.9	53.28	1.199	86.9	0.448	1.812	10.0	198.3	---	2.623	-55.61	0.492	76.3	27.9	-46.8	0.541
4-3620	4-4180	0.665	263.9	64.3	33.56	1.201	87.4	0.453	1.830	8.4	200.0	---	2.658	-36.17	0.494	74.9	20.8	-45.9	0.391
4-3620	4-4200	0.488	277.3	53.7	23.27	1.204	88.1	0.457	1.848	5.9	201.6	---	2.692	-26.16	0.496	73.7	18.0	-40.9	0.320
4-3620	4-4220	0.390	285.8	44.5	17.25	1.206	89.0	0.461	1.865	3.2	203.1	---	2.726	-20.42	0.498	72.5	18.1	-35.5	0.285
4-3620	4-4240	0.332	293.0	36.3	13.33	1.208	89.9	0.466	1.882	0.2	204.6	---	2.760	-16.79	0.501	71.4	19.7	-30.9	0.267
4-3620	4-4260	0.297	299.9	29.1	10.57	1.210	90.9	0.471	1.899	357.2	566.0	1.005	2.794	-14.32	0.504	70.3	22.2	-27.0	0.258
4-3620	4-4280	0.276	306.6	22.7	8.51	1.212	91.9	0.476	1.916	354.1	567.3	1.003	2.828	-12.55	0.507	69.2	25.2	-23.9	0.254
4-3620	4-4300	0.266	313.2	17.1	6.88	1.213	92.9	0.482	1.932	350.9	568.6	1.001	2.863	-11.22	0.510	68.2	28.4	-21.4	0.252
4-3620	4-4320	0.262	319.6	12.3	5.56	1.215	94.0	0.488	1.948	347.7	569.9	0.998	2.898	-10.21	0.514	67.1	31.9	-19.4	0.253
4-3620	4-4340	0.264	325.7	8.4	4.45	1.217	95.1	0.494	1.964	344.5	571.2	0.993	2.934	-9.42	0.518	66.1	35.5	-17.7	0.255
4-3620	4-4360	0.271	331.6	5.2	3.49	1.218	96.3	0.501	1.979	341.2	572.4	0.987	2.970	-8.79	0.523	65.0	39.3	-16.3	0.258
4-3620	4-4380	0.281	337.1	2.8	2.65	1.220	97.4	0.508	1.994	337.8	573.6	0.980	3.008	-8.28	0.527	64.0	43.2	-15.1	0.262
4-3620	4-4400	0.294	342.3	0.9	1.89	1.222	98.6	0.516	2.009	334.4	574.7	0.972	3.048	-7.88	0.532	63.0	47.2	-14.1	0.267
4-3620	4-4420	0.310	347.2	-0.5	1.19	1.223	99.9	0.525	2.023	330.9	575.8	0.961	3.085	-7.56	0.538	61.9	51.3	-13.2	0.272
4-3630	4-3730	0.606	239.8	-18.0	1.25	1.341	64.3	0.850	5.347	56.3	111.7	---	---	7.77	0.858	139.1	9.0	6.7	0.648
4-3630	4-3750	0.537	235.4	-19.1	0.27	1.265	65.3	0.696	2.604	61.5	123.3	---	---	7.26	0.732	133.3	8.5	7.6	0.510
4-3630	4-3770	0.496	232.2	-20.3	-0.59	1.220	66.1	0.611	2.017	65.5	138.6	---	---	6.89	0.648	127.4	7.4	8.6	0.412
4-3630	4-3790	0.469	230.0	-21.7	-1.37	1.193	66.7	0.562	1.781	68.0	142.4	---	---	6.64	0.591	121.7	5.5	9.8	0.341
4-3630	4-3810	0.450	228.7	-23.3	-2.10	1.177	67.3	0.531	1.667	69.2	149.7	---	---	6.48	0.552	116.3	2.8	11.1	0.290
4-3630	4-3830	0.435	228.0	-25.1	-2.79	1.167	68.0	0.510	1.608	69.3	155.9	---	---	6.40	0.526	111.3	359.5	12.5	0.253
4-3630	4-3850	0.422	227.9	-27.1	-3.47	1.163	68.7	0.496	1.579	68.5	161.1	---	---	6.40	0.508	106.8	355.8	13.8	0.228

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3630	4-3870	0.411	228.1	-29.3	-4.14	1.161	69.4	0.485	1.568	67.0	165.6	---	---	6.48	0.497	102.8	352.2	15.0	0.211
4-3630	4-3890	0.401	228.6	-31.7	-4.82	1.160	70.2	0.477	1.567	65.1	169.4	---	---	6.60	0.489	99.3	348.9	16.0	0.201
4-3630	4-3910	0.392	229.3	-34.4	-5.52	1.162	71.0	0.471	1.574	62.8	172.9	---	---	6.81	0.484	96.3	346.3	16.9	0.196
4-3630	4-3930	0.384	230.2	-37.4	-6.26	1.164	71.8	0.466	1.585	60.2	175.9	---	---	7.10	0.481	93.5	344.5	17.7	0.195
4-3630	4-3950	0.377	231.1	-40.7	-7.07	1.166	72.7	0.462	1.600	57.4	178.7	---	---	7.48	0.480	91.1	343.5	18.6	0.196
4-3630	4-3970	0.371	232.0	-44.4	-7.95	1.169	73.6	0.459	1.617	54.5	181.2	---	2.359	7.98	0.479	89.0	343.4	19.6	0.198
4-3630	4-3990	0.368	232.8	-48.5	-8.96	1.172	74.4	0.457	1.635	51.5	183.5	---	2.382	8.61	0.479	87.1	343.9	20.7	0.202
4-3630	4-4010	0.369	233.2	-53.1	-10.12	1.175	75.3	0.455	1.654	48.5	185.7	---	2.407	9.43	0.479	85.3	345.1	22.1	0.208
4-3630	4-4030	0.373	233.1	-58.2	-11.52	1.178	76.2	0.454	1.674	45.4	187.7	---	2.435	10.50	0.480	83.7	346.9	23.9	0.215
4-3630	4-4050	0.384	231.6	-63.9	-13.25	1.181	77.1	0.454	1.695	42.2	189.6	---	2.463	11.91	0.481	82.2	349.2	26.1	0.223
4-3630	4-4070	0.405	226.8	-70.0	-15.49	1.184	78.0	0.454	1.715	39.1	191.4	---	2.493	13.85	0.482	80.8	352.0	28.9	0.235
4-3630	4-4090	0.442	212.9	-76.1	-18.55	1.187	78.9	0.454	1.736	36.1	193.2	---	2.524	16.63	0.483	79.5	355.6	32.5	0.253
4-3630	4-4110	0.506	176.4	-79.3	-23.04	1.190	79.8	0.455	1.756	33.1	194.9	---	2.555	20.84	0.485	78.2	0.3	37.0	0.281
4-3630	4-4130	0.621	137.3	-74.5	-30.29	1.192	80.6	0.457	1.776	30.4	196.6	---	2.587	27.81	0.487	77.0	6.9	42.1	0.330
4-3630	4-4150	0.842	124.0	-62.8	-43.54	1.195	81.3	0.459	1.796	28.0	198.2	---	2.621	40.79	0.489	75.7	17.5	46.2	0.428
4-3630	4-4170	1.271	123.7	-44.2	-70.15	1.197	81.6	0.464	1.815	26.9	199.9	---	2.657	67.13	0.491	74.3	33.0	43.8	0.629
4-3630	4-4210	0.784	250.5	66.4	40.41	1.202	86.0	0.460	1.853	12.8	202.1	---	2.705	-43.95	0.496	73.2	30.9	-46.8	0.452
4-3630	4-4230	0.536	272.9	55.3	25.93	1.204	86.6	0.464	1.871	10.6	203.6	---	2.740	-29.73	0.498	72.1	25.5	-42.5	0.348
4-3630	4-4250	0.407	284.1	45.0	18.15	1.206	87.5	0.468	1.889	7.9	205.1	---	2.773	-22.21	0.502	71.0	24.5	-36.8	0.300
4-3630	4-4270	0.335	292.6	35.9	13.40	1.208	88.4	0.472	1.906	5.0	206.5	---	2.806	-17.73	0.505	70.0	25.7	-31.6	0.276
4-3630	4-4290	0.292	300.3	27.9	10.20	1.210	89.4	0.476	1.923	2.0	207.8	---	2.839	-14.80	0.508	69.0	28.1	-27.4	0.264
4-3630	4-4310	0.268	307.6	20.9	7.89	1.212	90.4	0.481	1.940	358.9	569.1	1.008	2.872	-12.76	0.512	68.0	31.0	-24.0	0.258
4-3630	4-4330	0.254	314.8	14.9	6.13	1.214	91.4	0.485	1.956	355.7	570.5	1.007	2.906	-11.27	0.516	67.1	34.3	-21.4	0.255
4-3630	4-4350	0.249	321.8	9.9	4.72	1.216	92.5	0.491	1.972	352.5	571.7	1.005	2.940	-10.14	0.521	66.1	37.8	-19.2	0.255
4-3630	4-4370	0.250	328.5	5.9	3.55	1.217	93.6	0.496	1.988	349.2	573.0	1.002	2.974	-9.27	0.525	65.2	41.5	-17.4	0.256
4-3630	4-4390	0.255	335.0	2.8	2.56	1.219	94.7	0.502	2.003	345.9	574.2	0.998	3.009	-8.58	0.530	64.2	45.3	-16.0	0.259
4-3630	4-4410	0.264	341.1	0.5	1.70	1.220	95.9	0.508	2.018	342.5	575.4	0.992	3.045	-8.03	0.535	63.3	49.3	-14.8	0.262
4-3630	4-4430	0.276	346.8	-1.2	0.94	1.222	97.1	0.515	2.033	339.1	576.5	0.985	3.081	-7.59	0.541	62.4	53.3	-13.7	0.267
4-3640	4-3740	0.684	237.5	-18.7	0.84	1.297	57.9	0.795	3.355	73.9	122.9	---	---	7.68	0.790	139.6	6.7	6.4	0.613
4-3640	4-3760	0.616	234.5	-19.8	-0.19	1.232	59.5	0.684	2.159	78.4	133.7	---	---	7.02	0.674	133.2	5.6	7.1	0.485
4-3640	4-3780	0.573	232.5	-21.0	-1.07	1.194	60.7	0.622	1.803	81.2	142.8	---	---	6.56	0.599	126.7	3.8	8.0	0.395
4-3640	4-3800	0.544	231.4	-22.3	-1.84	1.172	61.8	0.583	1.650	82.4	150.2	---	---	6.23	0.549	120.4	1.3	8.9	0.330
4-3640	4-3820	0.521	231.0	-23.8	-2.53	1.160	62.8	0.558	1.575	82.4	156.3	---	---	6.00	0.517	114.6	358.1	9.9	0.285
4-3640	4-3840	0.503	231.0	-25.4	-3.18	1.153	63.7	0.540	1.540	81.5	161.4	---	---	5.86	0.496	109.4	354.6	10.9	0.253
4-3640	4-3860	0.487	231.5	-27.1	-3.79	1.151	64.6	0.526	1.526	79.8	165.8	---	---	5.78	0.482	104.7	351.1	11.7	0.232
4-3640	4-3880	0.472	232.2	-29.0	-4.39	1.151	65.6	0.515	1.525	77.7	169.6	---	---	5.77	0.475	100.7	347.9	12.4	0.218
4-3640	4-3900	0.459	233.1	-31.0	-4.97	1.152	66.6	0.506	1.532	75.3	172.9	---	---	5.82	0.470	97.2	345.4	13.0	0.210
4-3640	4-3920	0.446	234.2	-33.2	-5.57	1.154	67.5	0.498	1.545	72.5	175.8	---	---	5.93	0.468	94.1	343.5	13.5	0.206
4-3640	4-3940	0.434	235.4	-35.5	-6.18	1.157	68.5	0.492	1.561	69.6	178.5	---	---	6.10	0.467	91.5	342.5	14.1	0.204
4-3640	4-3960	0.424	236.7	-38.1	-6.82	1.161	69.5	0.487	1.580	66.6	180.9	---	2.348	6.33	0.468	89.1	342.2	14.6	0.205
4-3640	4-3980	0.414	238.1	-41.0	-7.51	1.164	70.5	0.482	1.600	63.4	183.1	---	2.371	6.65	0.469	87.1	342.7	15.2	0.206
4-3640	4-4000	0.406	239.5	-44.1	-8.26	1.168	71.5	0.478	1.621	60.2	185.2	---	2.397	7.05	0.470	85.2	343.7	16.0	0.209
4-3640	4-4020	0.399	240.9	-47.6	-9.11	1.171	72.4	0.475	1.643	56.9	187.2	---	2.424	7.57	0.472	83.6	345.2	16.9	0.212
4-3640	4-4040	0.395	242.2	-51.4	-10.07	1.175	73.4	0.473	1.665	53.7	189.0	---	2.453	8.22	0.473	82.1	347.1	18.1	0.216
4-3640	4-4060	0.395	243.3	-55.8	-11.21	1.178	74.4	0.471	1.688	50.4	190.8	---	2.482	9.07	0.475	80.7	349.5	19.6	0.220
4-3640	4-4080	0.399	243.9	-60.7	-12.60	1.181	75.4	0.470	1.710	47.1	192.5	---	2.513	10.18	0.477	79.4	352.2	21.5	0.226
4-3640	4-4100	0.410	243.2	-66.2	-14.36	1.184	76.3	0.469	1.732	43.9	194.1	---	2.544	11.67	0.479	78.2	355.3	23.9	0.234
4-3640	4-4120	0.432	239.3	-72.3	-16.70	1.187	77.3	0.468	1.753	40.7	195.7	---	2.575	13.74	0.482	77.0	358.8	27.0	0.246
4-3640	4-4140	0.472	224.5	-78.6	-19.99	1.190	78.2	0.469	1.775	37.6	197.2	---	2.608	16.78	0.484	75.9	3.0	31.0	0.263
4-3640	4-4160	0.544	176.0	-81.4	-25.04	1.193	79.1	0.469	1.796	34.6	198.8	---	2.638	21.58	0.487	74.8	8.4	36.2	0.293
4-3640	4-4180	0.682	136.1	-74.3	-33.72	1.196	79.9	0.471	1.816	31.8	200.3	---	2.671	30.03	0.489	73.7	16.4	42.1	0.351
4-3640	4-4200	0.970	128.8	-59.6	-51.09	1.198	80.6	0.473	1.836	29.7	201.8	---	2.705	47.16	0.492	72.6	29.9	46.0	0.479
4-3640	4-4240	0.976	229.7	66.3	51.62	1.203	84.6	0.469	1.875	17.1	204.0	---	2.754	-56.02	0.499	71.5	42.9	-46.0	0.545
4-3640	4-4260	0.604	267.1	56.7	29.70	1.205	85.1	0.473	1.893	15.3	205.5	---	2.788	-34.39	0.502	70.4	33.9	-44.1	0.384
4-3640	4-4280	0.428	282.8	45.1	19.17	1.207	85.9	0.476	1.912	12.7	206.9	---	2.821	-24.04	0.506	69.5	31.1	-37.8	0.315
4-3640	4-4300	0.338	292.8	34.5	13.32	1.209	86.8	0.479	1.929	9.8	208.3	---	2.853	-18.42	0.510	68.6	31.8	-31.9	0.283
4-3640	4-4320	0.288	301.2	25.4	9.62	1.211	87.8	0.482	1.946	6.7	209.6	---	2.885	-14.95	0.514	67.7	33.9	-27.2	0.268
4-3640	4-4340	0.261	309.1	17.6	7.06	1.213	88.8	0.486	1.963	3.6	211.0	---	2.917	-12.63	0.518	66.8	36.8	-23.5	0.261
4-3640	4-4360	0.246	316.7	11.1	5.16	1.214	89.9	0.490	1.980	0.4	212.3	---	2.949	-10.99	0.523	66.0	40.1	-20.7	0.258
4-3640	4-4380	0.239	324.2	6.0	3.69	1.216	90.9	0.494	1.996	357.2	573.5	1.010	2.982	-9.77	0.528	65.1	43.7	-18.4	0.257
4-3640	4-4400	0.239	331.4	2.0	2.50	1.218	92.0	0.499	2.012	353.9	574.8	1.008	3.015	-8.84	0.533	64.3	47.4	-16.6	0.258
4-3640	4-4420	0.243	338.4	-0.9	1.51	1.219	93.2	0.504	2.027	350.6	576.0	1.006	3.048	-8.11	0.538	63.4	51.3	-15.1	0.260
4-3640	4-4440	0.251	345.0	-2.9	0.65	1.221	94.3	0.509	2.042	347.1	577.2	1.002	3.082	-7.54	0.544	62.6	55.4	-13.9	0.263
4-3650	4-3750	0.775	237.1	-19.6	0.35	1.256	51.3	0.780	2.509	92.1	134.6	---	---	7.39	0.722	140.8	3.5	5.7	0.591
4-3650	4-3770	0.704	235.4	-20.7	-0.73	1.200	53.4	0.700	1.864	95.0	143.8	---	---	6.63	0.616	133.5	1.8	6.3	0.471
4-3650	4-3790	0.658	234.5	-21.9	-1.61	1.169	55.1	0.652	1.639	96.1	151.1	---	---	6.08	0.548	126.3	359.5	6.9	0.387
4-3650	4-3810	0.624	234.2	-23.1	-2.36	1.152	56.6	0.620	1.540	95.9	157.1	---	---	5.69	0.505	119.4	356.6	7.6	0.329
4-3650	4-3830	0.597	234.5	-24.5	-3.02	1.143	58.0	0.597	1.495	94.7	162.1	---	---	5.40	0.479	113.0	353.3	8.3	0.289
4-3650	4-3850	0.575	235.1	-25.9	-3.61	1.140	59.2	0.578	1.477	92.9	166.2	---	---	5.20	0.463	107.4	349.9	8.8	0.261
4-3650	4-3870	0.555	236.0	-27.4	-4.16	1.139	60.5	0.564	1.475	90.6	169.8	---	---	5.07	0.455	102.6	346.9	9.3	0.243
4-3650	4-3890	0.537	237.1	-29.0	-4.68	1.141	61.6	0.551	1.483	87.9	173.0	---	---	5.00	0.451	98.4	344.4	9.7	0.231
4-3650	4-3910	0.520	238.3	-30.7	-5.18	1.144	62.8	0.540	1.497	85.0	175.8	---	---	4.98	0.450	94.9	342.6	10.0	0.224
4-3650	4-3930	0.504	239.7	-32.4	-5.68	1.147	63.9	0.531	1.515	81.9	178.4	---	---	5.02	0.450	91.8	341.5	10.3	0.220
4-3650	4-3950	0.490	241.2	-34.3	-6.17	1.151	65.1	0.523	1.536	78.7	180.7	---	2.338	5.10	0.452	89.2	341.2	10.6	0.218
4-3650	4-3970	0.475	242.8	-36.3	-6.68	1.155	66.2	0.516	1.558	75.4	182.9	---	2.361	5.23	0.454	87.0	341.6	10.9	0.218
4-3650	4-3990	0.462	244.4	-38.5	-7.21	1.159	67.3	0.509	1.582	72.0	184.9	---	2.387	5.41	0.457	85.0	342.5	11.3	0.218
4-3650	4-4010	0.450	246.2	-40.9	-7.78	1.163	68.4	0.504	1.606	68.6	186.8	---	2.414	5.65	0.460	83.2	343.9	11.8	0.219
4-3650	4-4030	0.439	248.0	-43.5	-8.39	1.167	69.4	0.499	1.630	65.2	188.5	---	2.443	5.97	0.463	81.7	345.7	12.4	0.221
4-3650	4-4050	0.430	249.9	-46.3	-9.07	1.171	70.5	0.495	1.654	61.8	190.2	---	2.473	6.36	0.466	80.3	347.9	13.2	0.223
4-3650	4-4070	0.422	251.8	-49.4	-9.84	1.175	71.6	0.492	1.678	58.5	191.9	---	2.503	6.87	0.469	79.0	350.3	14.1	0.225

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3650	4-4090	0.417	253.8	-53.0	-10.74	1.178	72.6	0.489	1.702	55.1	193.5	---	2.534	7.51	0.472	77.8	353.0	15.3	0.228
4-3650	4-4110	0.415	255.6	-57.0	-11.81	1.182	73.6	0.487	1.726	51.8	195.0	---	2.565	8.34	0.475	76.6	356.0	16.8	0.231
4-3650	4-4130	0.418	257.3	-61.5	-13.14	1.185	74.6	0.485	1.749	48.5	196.5	---	2.597	9.44	0.478	75.6	359.2	18.8	0.236
4-3650	4-4150	0.428	258.2	-66.8	-14.86	1.188	75.6	0.484	1.771	45.2	197.9	---	2.628	10.94	0.481	74.6	2.7	21.3	0.242
4-3650	4-4170	0.449	257.0	-73.0	-17.20	1.191	76.6	0.483	1.794	42.0	199.4	---	2.659	13.07	0.484	73.6	6.6	24.6	0.252
4-3650	4-4190	0.489	246.7	-79.9	-20.64	1.194	77.6	0.482	1.815	38.8	200.8	---	2.691	16.29	0.487	72.7	11.1	29.1	0.269
4-3650	4-4210	0.569	183.4	-84.1	-26.20	1.196	78.5	0.483	1.836	35.8	202.2	---	2.722	21.65	0.491	71.8	17.0	35.0	0.300
4-3650	4-4230	0.735	136.9	-74.6	-36.66	1.199	79.4	0.484	1.857	33.1	203.6	---	2.754	31.90	0.494	70.8	26.4	42.0	0.368
4-3650	4-4250	1.123	135.7	-56.0	-60.42	1.201	80.0	0.486	1.877	31.1	205.0	---	2.786	55.46	0.498	69.8	43.6	45.2	0.543
4-3650	4-4290	0.712	258.4	58.0	35.79	1.206	83.6	0.482	1.915	19.8	207.4	---	2.837	-41.15	0.506	68.8	43.9	-45.4	0.436
4-3650	4-4310	0.455	281.7	44.8	20.45	1.208	84.4	0.484	1.933	17.3	208.8	---	2.869	-26.01	0.510	68.0	38.0	-38.7	0.332
4-3650	4-4330	0.341	293.9	32.1	13.02	1.210	85.3	0.487	1.951	14.5	210.1	---	2.901	-18.78	0.515	67.1	37.7	-31.8	0.290
4-3650	4-4350	0.285	303.1	21.3	8.73	1.212	86.3	0.489	1.969	11.4	211.4	---	2.931	-14.69	0.520	66.4	39.7	-26.4	0.272
4-3650	4-4370	0.255	311.4	12.6	5.94	1.213	87.3	0.492	1.986	8.3	212.7	---	2.962	-12.10	0.525	65.6	42.6	-22.4	0.263
4-3650	4-4390	0.240	319.4	5.7	3.95	1.215	88.3	0.495	2.002	5.1	214.0	---	2.993	-10.33	0.530	64.8	46.0	-19.4	0.259
4-3650	4-4410	0.234	327.1	0.5	2.46	1.217	89.4	0.499	2.018	1.8	215.3	---	3.024	-9.05	0.535	64.1	49.6	-17.0	0.258
4-3650	4-4430	0.233	334.7	-3.3	1.28	1.218	90.5	0.502	2.034	358.5	576.6	1.012	3.056	-8.10	0.541	63.4	53.5	-15.2	0.259
4-3650	4-4450	0.236	342.0	-5.9	0.31	1.220	91.7	0.507	2.049	355.1	577.8	1.011	3.088	-7.36	0.547	62.6	57.4	-13.8	0.261
4-3660	4-3760	0.875	238.3	-20.5	-0.27	1.219	44.2	0.799	2.053	109.5	145.6	---	---	6.92	0.656	142.9	359.9	4.7	0.584
4-3660	4-3780	0.799	237.6	-21.6	-1.39	1.170	47.1	0.738	1.659	110.2	152.6	---	---	6.04	0.557	134.6	357.8	5.1	0.470
4-3660	4-3800	0.747	237.6	-22.8	-2.27	1.145	49.4	0.698	1.512	109.7	158.2	---	---	5.42	0.496	126.3	355.1	5.5	0.392
4-3660	4-3820	0.708	238.1	-24.0	-2.98	1.132	51.3	0.668	1.449	108.2	162.9	---	---	4.98	0.460	118.5	352.0	6.0	0.338
4-3660	4-3840	0.677	238.9	-25.2	-3.59	1.127	53.0	0.644	1.424	106.0	166.8	---	---	4.66	0.439	111.5	348.9	6.3	0.301
4-3660	4-3860	0.650	239.9	-26.5	-4.12	1.126	54.6	0.624	1.420	103.4	170.2	---	---	4.42	0.429	105.4	346.0	6.6	0.277
4-3660	4-3880	0.627	241.2	-27.8	-4.59	1.128	56.1	0.607	1.428	100.5	173.2	---	---	4.26	0.425	100.3	343.6	6.9	0.260
4-3660	4-3900	0.605	242.6	-29.1	-5.03	1.131	57.5	0.592	1.443	97.4	175.9	---	---	4.15	0.425	96.0	341.8	7.0	0.249
4-3660	4-3920	0.585	244.1	-30.5	-5.45	1.135	58.9	0.579	1.462	94.2	178.3	---	---	4.09	0.427	92.4	340.8	7.2	0.242
4-3660	4-3940	0.566	245.7	-32.0	-5.85	1.140	60.2	0.568	1.485	90.8	180.5	---	2.328	4.06	0.431	89.3	340.4	7.4	0.238
4-3660	4-3960	0.548	247.4	-33.5	-6.24	1.145	61.5	0.558	1.510	87.3	182.6	---	2.351	4.08	0.435	86.8	340.7	7.5	0.236
4-3660	4-3980	0.531	249.2	-35.0	-6.63	1.149	62.8	0.548	1.535	83.9	184.5	---	2.377	4.14	0.439	84.6	341.5	7.7	0.234
4-3660	4-4000	0.515	251.1	-36.7	-7.03	1.154	64.0	0.540	1.561	80.3	186.3	---	2.405	4.23	0.444	82.7	342.9	8.0	0.234
4-3660	4-4020	0.500	253.0	-38.5	-7.45	1.159	65.2	0.533	1.588	76.8	188.0	---	2.434	4.36	0.448	81.0	344.6	8.3	0.234
4-3660	4-4040	0.486	255.0	-40.3	-7.88	1.163	66.3	0.526	1.614	73.3	189.7	---	2.464	4.54	0.453	79.6	346.6	8.7	0.234
4-3660	4-4060	0.472	257.1	-42.4	-8.35	1.167	67.5	0.521	1.641	69.8	191.3	---	2.495	4.76	0.457	78.2	349.0	9.1	0.234
4-3660	4-4080	0.460	259.3	-44.6	-8.87	1.172	68.6	0.516	1.667	66.4	192.8	---	2.526	5.05	0.461	77.1	351.6	9.7	0.235
4-3660	4-4100	0.449	261.6	-47.0	-9.45	1.175	69.7	0.511	1.692	62.9	194.3	---	2.558	5.42	0.465	76.0	354.4	10.4	0.236
4-3660	4-4120	0.440	264.0	-49.8	-10.12	1.179	70.8	0.508	1.717	59.5	195.7	---	2.589	5.88	0.469	74.9	357.3	11.3	0.237
4-3660	4-4140	0.433	266.6	-52.8	-10.90	1.183	71.9	0.504	1.742	56.1	197.2	---	2.620	6.47	0.473	74.0	0.4	12.4	0.238
4-3660	4-4160	0.429	269.2	-56.3	-11.86	1.186	73.0	0.502	1.766	52.8	198.5	---	2.652	7.24	0.477	73.1	3.7	13.8	0.240
4-3660	4-4180	0.429	272.0	-60.4	-13.06	1.189	74.0	0.499	1.789	49.5	199.9	---	2.683	8.26	0.481	72.2	7.2	15.7	0.243
4-3660	4-4200	0.436	274.7	-65.3	-14.66	1.192	75.0	0.498	1.812	46.2	201.3	---	2.714	9.68	0.485	71.4	10.9	18.1	0.248
4-3660	4-4220	0.455	276.9	-71.3	-16.91	1.195	76.1	0.496	1.834	43.0	202.6	---	2.744	11.76	0.489	70.6	14.9	21.5	0.256
4-3660	4-4240	0.494	276.0	-78.7	-20.36	1.197	77.0	0.496	1.855	39.8	204.0	---	2.775	15.04	0.493	69.8	19.5	26.3	0.271
4-3660	4-4260	0.578	221.0	-87.0	-26.37	1.200	78.0	0.495	1.876	36.8	205.3	---	2.806	20.89	0.497	69.0	25.7	33.2	0.302
4-3660	4-4280	0.782	138.7	-75.6	-39.22	1.202	78.9	0.496	1.897	34.1	206.7	---	2.837	33.57	0.502	68.2	36.7	42.0	0.385
4-3660	4-4300	1.342	145.4	-50.3	-74.66	1.204	79.3	0.498	1.916	32.4	208.1	---	2.871	68.85	0.506	67.3	59.4	42.7	0.642
4-3660	4-4320	0.917	242.2	58.2	47.75	1.207	82.1	0.491	1.935	24.1	209.2	---	2.886	-53.72	0.511	67.3	57.1	-45.5	0.533
4-3660	4-4340	0.492	280.8	44.7	22.26	1.209	82.8	0.493	1.954	22.0	210.5	---	2.918	-28.39	0.516	66.4	45.3	-39.7	0.352
4-3660	4-4360	0.343	296.3	28.6	12.40	1.211	83.7	0.495	1.972	19.1	211.9	---	2.949	-18.69	0.521	65.7	43.6	-31.1	0.295
4-3660	4-4380	0.282	306.5	15.5	7.43	1.212	84.7	0.497	1.990	16.0	213.2	---	2.978	-13.89	0.526	65.0	45.4	-24.8	0.273
4-3660	4-4400	0.253	315.1	5.6	4.44	1.214	85.7	0.499	2.007	12.8	214.5	---	3.008	-11.07	0.532	64.4	48.4	-20.4	0.264
4-3660	4-4420	0.240	323.1	-1.5	2.43	1.216	86.8	0.501	2.024	9.6	215.8	---	3.038	-9.24	0.538	63.7	51.8	-17.3	0.261
4-3660	4-4440	0.234	330.9	-6.5	0.98	1.217	87.9	0.504	2.040	6.3	217.1	---	3.068	-7.96	0.544	63.1	55.6	-14.9	0.260
4-3660	4-4460	0.233	338.6	-9.8	-0.13	1.219	89.0	0.507	2.056	2.9	218.3	---	3.098	-7.02	0.550	62.4	59.5	-13.2	0.261
4-3670	4-3770	0.980	240.7	-21.5	-1.11	1.186	36.9	0.840	1.778	125.2	154.8	---	---	6.14	0.594	146.1	356.3	3.4	0.592
4-3670	4-3790	0.898	240.9	-22.7	-2.26	1.144	40.5	0.790	1.512	123.9	159.8	---	---	5.18	0.499	136.6	353.9	3.7	0.482
4-3670	4-3810	0.839	241.6	-23.8	-3.09	1.123	43.3	0.752	1.412	121.8	163.9	---	---	4.53	0.443	127.0	351.1	3.9	0.408
4-3670	4-3830	0.795	242.7	-24.9	-3.74	1.114	45.8	0.722	1.373	119.2	167.4	---	---	4.07	0.413	118.0	348.2	4.2	0.357
4-3670	4-3850	0.759	243.9	-26.0	-4.27	1.112	47.9	0.697	1.363	116.3	170.5	---	---	3.74	0.398	110.1	345.5	4.3	0.322
4-3670	4-3870	0.728	245.4	-27.1	-4.72	1.113	49.8	0.674	1.369	113.1	173.3	---	---	3.50	0.393	103.4	343.2	4.5	0.299
4-3670	4-3890	0.700	247.0	-28.2	-5.11	1.117	51.6	0.655	1.384	109.8	175.8	---	---	3.32	0.394	97.9	341.4	4.6	0.283
4-3670	4-3910	0.676	248.6	-29.3	-5.46	1.122	53.3	0.638	1.405	106.3	178.1	---	---	3.19	0.398	93.3	340.3	4.7	0.272
4-3670	4-3930	0.652	250.4	-30.5	-5.78	1.127	54.9	0.622	1.429	102.8	180.2	---	2.318	3.11	0.404	89.6	339.9	4.7	0.265
4-3670	4-3950	0.631	252.2	-31.6	-6.08	1.133	56.4	0.609	1.455	99.2	182.2	---	2.341	3.06	0.410	86.6	340.1	4.8	0.260
4-3670	4-3970	0.610	254.0	-32.8	-6.37	1.138	57.8	0.596	1.483	95.6	184.0	---	2.367	3.04	0.417	84.1	340.9	4.9	0.257
4-3670	4-3990	0.590	255.9	-34.0	-6.66	1.144	59.2	0.585	1.511	92.0	185.8	---	2.395	3.04	0.424	82.0	342.1	5.0	0.254
4-3670	4-4010	0.572	257.9	-35.2	-6.94	1.149	60.5	0.574	1.540	88.4	187.5	---	2.425	3.07	0.430	80.2	343.8	5.2	0.252
4-3670	4-4030	0.554	259.9	-36.5	-7.23	1.154	61.8	0.565	1.569	84.8	189.1	---	2.456	3.13	0.436	78.6	345.7	5.3	0.251
4-3670	4-4050	0.537	262.0	-37.9	-7.53	1.159	63.1	0.557	1.598	81.2	190.6	---	2.487	3.22	0.442	77.2	348.0	5.6	0.250
4-3670	4-4070	0.520	264.2	-39.3	-7.84	1.164	64.4	0.549	1.626	77.6	192.1	---	2.519	3.33	0.448	76.0	350.5	5.8	0.249
4-3670	4-4090	0.505	266.4	-40.8	-8.17	1.168	65.6	0.543	1.653	74.1	193.5	---	2.551	3.48	0.453	75.0	353.2	6.2	0.248
4-3670	4-4110	0.490	268.8	-42.5	-8.53	1.173	66.7	0.537	1.681	70.6	194.9	---	2.583	3.68	0.458	74.0	356.0	6.5	0.247
4-3670	4-4130	0.477	271.2	-44.2	-8.93	1.176	67.9	0.531	1.707	67.1	196.3	---	2.614	3.92	0.463	73.0	359.0	7.0	0.247
4-3670	4-4150	0.464	273.9	-46.2	-9.39	1.180	69.0	0.527	1.733	63.7	197.7	---	2.648	4.22	0.468	72.2	2.2	7.6	0.247
4-3670	4-4170	0.453	276.6	-48.4	-9.92	1.184	70.2	0.523	1.758	60.3	199.0	---	2.677	4.60	0.472	71.4	5.4	8.4	0.247
4-3670	4-4190	0.444	279.6	-50.8	-10.55	1.187	71.3	0.519	1.783	57.0	200.4	---	2.708	5.09	0.477	70.6	8.8	9.3	0.247
4-3670	4-4210	0.437	282.8	-53.7	-11.33	1.190	72.3	0.516	1.807	53.6	201.7	---	2.739	5.74	0.482	69.9	12.2	10.5	0.248
4-3670	4-4230	0.434	286.3	-57.1	-12.34	1.193	73.4	0.513	1.830	50.4	203.0	---	2.769	6.62	0.486	69.2	15.8	12.1	0.250
4-3670	4-4250	0.437	290.2	-61.3	-13.72	1.196	74.5	0.511	1.852	47.1	204.3	---	2.799	7.87	0.491	68.5	19.5	14.3	0.253
4-3670	4-4270	0.450	294.6	-66.7	-15.73	1.198	75.5	0.509	1.874	43.9	205.7	---	2.828	9.75	0.496	67.8	23.6	17.5	0.258

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3700	4-3840	1.127	257.2	-26.1	-8.12	1.075	24.1	0.915	1.234	151.4	174.1	---	---	-1.09	0.290	136.5	345.3	-0.4	0.511
4-3700	4-3860	1.065	259.5	-26.8	-7.89	1.072	28.1	0.885	1.223	146.7	175.4	---	---	-0.87	0.266	120.9	343.5	-0.4	0.460
4-3700	4-3880	1.015	261.8	-27.5	-7.73	1.075	31.5	0.857	1.233	142.3	177.0	---	---	-0.74	0.264	107.5	342.2	-0.4	0.423
4-3700	4-3900	0.972	264.1	-28.1	-7.61	1.081	34.5	0.831	1.252	138.1	178.5	---	---	-0.65	0.274	97.1	341.4	-0.4	0.397
4-3700	4-3920	0.933	266.4	-28.7	-7.52	1.089	37.2	0.806	1.278	134.0	180.1	---	2.308	-0.58	0.290	89.5	341.2	-0.4	0.378
4-3700	4-3940	0.899	268.6	-29.2	-7.45	1.097	39.6	0.783	1.308	129.9	181.7	---	2.332	-0.54	0.307	83.9	341.5	-0.4	0.363
4-3700	4-3960	0.867	270.7	-29.7	-7.39	1.105	41.9	0.762	1.340	125.9	183.2	---	2.360	-0.50	0.324	79.8	342.3	-0.5	0.352
4-3700	4-3980	0.838	272.9	-30.2	-7.34	1.113	43.9	0.742	1.373	122.0	184.7	---	2.391	-0.47	0.341	76.8	343.5	-0.5	0.343
4-3700	4-4000	0.810	275.0	-30.6	-7.29	1.121	45.9	0.724	1.406	118.1	186.2	---	2.424	-0.45	0.356	74.4	345.1	-0.5	0.335
4-3700	4-4020	0.783	277.1	-31.0	-7.25	1.128	47.7	0.707	1.440	114.3	187.6	---	2.459	-0.44	0.370	72.6	347.0	-0.5	0.328
4-3700	4-4040	0.758	279.1	-31.4	-7.21	1.135	49.5	0.691	1.474	110.6	189.0	---	2.493	-0.43	0.382	71.1	349.2	-0.5	0.323
4-3700	4-4060	0.734	281.2	-31.8	-7.17	1.142	51.1	0.677	1.508	106.9	190.4	---	2.528	-0.42	0.394	69.9	351.6	-0.5	0.317
4-3700	4-4080	0.710	283.3	-32.1	-7.13	1.148	52.7	0.663	1.541	103.2	191.8	---	2.563	-0.42	0.405	68.9	354.2	-0.5	0.312
4-3700	4-4100	0.688	285.3	-32.4	-7.09	1.154	54.3	0.651	1.573	99.6	193.1	---	2.598	-0.42	0.414	68.1	357.0	-0.5	0.308
4-3700	4-4120	0.666	287.4	-32.7	-7.06	1.159	55.7	0.639	1.605	96.0	194.4	---	2.632	-0.42	0.423	67.3	359.8	-0.5	0.304
4-3700	4-4140	0.645	289.5	-33.0	-7.02	1.165	57.2	0.629	1.636	92.5	195.7	---	2.665	-0.43	0.432	66.7	2.8	-0.6	0.300
4-3700	4-4160	0.624	291.6	-33.3	-6.98	1.169	58.5	0.619	1.667	89.0	197.0	---	2.698	-0.44	0.440	66.1	5.9	-0.6	0.296
4-3700	4-4180	0.604	293.7	-33.5	-6.94	1.174	59.9	0.610	1.696	85.5	198.3	---	2.731	-0.46	0.448	65.6	9.1	-0.6	0.293
4-3700	4-4200	0.584	295.8	-33.8	-6.90	1.178	61.2	0.602	1.725	82.1	199.5	---	2.762	-0.47	0.455	65.1	12.4	-0.7	0.290
4-3700	4-4220	0.565	298.0	-34.0	-6.86	1.182	62.4	0.594	1.753	78.7	200.8	---	2.793	-0.50	0.462	64.6	15.7	-0.7	0.287
4-3700	4-4240	0.547	300.3	-34.1	-6.81	1.186	63.7	0.587	1.780	75.4	202.1	---	2.824	-0.52	0.469	64.2	19.1	-0.8	0.284
4-3700	4-4260	0.528	302.6	-34.3	-6.75	1.189	64.9	0.580	1.806	72.0	203.4	---	2.854	-0.56	0.476	63.8	22.6	-0.8	0.282
4-3700	4-4280	0.510	304.9	-34.4	-6.69	1.192	66.1	0.574	1.832	68.7	204.6	---	2.883	-0.60	0.483	63.4	26.1	-0.9	0.280
4-3700	4-4300	0.493	307.4	-34.4	-6.61	1.195	67.3	0.568	1.856	65.5	205.9	---	2.911	-0.66	0.489	63.0	29.6	-1.0	0.278
4-3700	4-4320	0.476	309.9	-34.4	-6.52	1.198	68.5	0.563	1.880	62.2	207.2	---	2.939	-0.73	0.496	62.7	33.3	-1.2	0.276
4-3700	4-4340	0.459	312.5	-34.2	-6.40	1.201	69.6	0.559	1.903	59.0	208.5	---	2.967	-0.83	0.503	62.3	36.9	-1.3	0.274
4-3700	4-4360	0.442	315.2	-34.0	-6.25	1.203	70.8	0.554	1.926	55.7	209.9	---	2.994	-0.96	0.509	62.0	40.7	-1.6	0.273
4-3700	4-4380	0.425	317.9	-33.5	-6.04	1.206	71.9	0.550	1.948	52.5	211.2	---	3.020	-1.16	0.516	61.7	44.4	-1.9	0.272
4-3700	4-4400	0.408	320.7	-32.6	-5.72	1.208	73.0	0.547	1.969	49.2	212.6	---	3.046	-1.47	0.523	61.4	48.3	-2.5	0.272
4-3700	4-4420	0.390	323.3	-30.9	-5.15	1.210	74.2	0.544	1.990	46.0	213.9	---	3.072	-2.01	0.530	61.0	52.2	-3.4	0.272
4-3700	4-4440	0.370	325.4	-27.0	-3.89	1.212	75.3	0.541	2.009	42.7	215.3	---	3.097	-3.26	0.537	60.7	56.2	-5.6	0.273
4-3700	4-4460	0.349	322.6	-9.0	1.62	1.214	76.4	0.539	2.029	39.4	216.7	---	3.122	-8.75	0.544	60.5	61.1	-14.7	0.283
4-3700	4-4480	0.489	350.1	-63.9	-19.08	1.216	77.6	0.537	2.048	36.0	218.1	---	3.148	11.97	0.551	60.2	66.1	19.7	0.294
4-3700	4-4500	0.378	344.9	-45.8	-10.67	1.218	78.7	0.535	2.066	32.7	219.5	---	3.171	3.58	0.559	59.9	68.5	6.3	0.275
4-3710	4-3830	1.311	260.5	-25.8	-15.70	1.082	12.1	0.979	1.255	165.6	175.9	---	---	-8.89	0.319	161.1	347.4	-1.4	0.639
4-3710	4-3850	1.225	263.2	-26.5	-12.39	1.067	17.5	0.955	1.205	159.7	176.1	---	---	-5.66	0.248	144.2	345.5	-1.5	0.559
4-3710	4-3870	1.157	265.8	-27.1	-10.84	1.064	22.0	0.929	1.195	154.6	176.9	---	---	-4.20	0.218	125.0	344.1	-1.5	0.504
4-3710	4-3890	1.102	268.4	-27.6	-9.93	1.067	25.8	0.903	1.205	149.9	178.0	---	---	-3.38	0.217	107.8	343.1	-1.5	0.465
4-3710	4-3910	1.055	270.9	-28.0	-9.32	1.073	29.1	0.877	1.225	145.4	179.3	---	---	-2.86	0.232	95.0	342.7	-1.5	0.437
4-3710	4-3930	1.014	273.2	-28.4	-8.88	1.081	32.1	0.853	1.252	141.1	180.7	---	2.319	-2.50	0.253	86.1	342.7	-1.5	0.415
4-3710	4-3950	0.976	275.6	-28.8	-8.54	1.090	34.8	0.830	1.282	137.0	182.1	---	2.348	-2.25	0.275	80.0	343.3	-1.5	0.399
4-3710	4-3970	0.942	277.8	-29.1	-8.26	1.099	37.3	0.808	1.315	132.9	183.5	---	2.377	-2.06	0.296	75.8	344.3	-1.5	0.386
4-3710	4-3990	0.910	280.0	-29.4	-8.03	1.108	39.5	0.787	1.349	129.0	184.9	---	2.410	-1.92	0.316	72.7	345.7	-1.5	0.375
4-3710	4-4010	0.880	282.2	-29.6	-7.83	1.116	41.7	0.768	1.383	125.1	186.3	---	2.445	-1.82	0.334	70.5	347.5	-1.6	0.365
4-3710	4-4030	0.852	284.3	-29.8	-7.65	1.124	43.6	0.750	1.418	121.2	187.7	---	2.481	-1.74	0.350	68.8	349.5	-1.6	0.357
4-3710	4-4050	0.824	286.3	-30.0	-7.48	1.131	45.5	0.733	1.453	117.4	189.0	---	2.517	-1.68	0.365	67.5	351.8	-1.6	0.350
4-3710	4-4070	0.798	288.4	-30.1	-7.33	1.138	47.3	0.717	1.487	113.7	190.3	---	2.553	-1.64	0.378	66.4	354.2	-1.7	0.343
4-3710	4-4090	0.773	290.4	-30.2	-7.19	1.145	49.0	0.702	1.521	110.1	191.6	---	2.589	-1.61	0.391	65.6	356.9	-1.7	0.337
4-3710	4-4110	0.749	292.4	-30.3	-7.05	1.151	50.7	0.688	1.555	106.4	192.9	---	2.625	-1.59	0.402	64.9	359.6	-1.8	0.331
4-3710	4-4130	0.726	294.3	-30.4	-6.92	1.157	52.2	0.675	1.588	102.9	194.2	---	2.660	-1.59	0.412	64.3	2.6	-1.8	0.326
4-3710	4-4150	0.703	296.3	-30.4	-6.78	1.162	53.7	0.663	1.620	99.4	195.5	---	2.694	-1.60	0.422	63.8	5.6	-1.9	0.321
4-3710	4-4170	0.681	298.3	-30.5	-6.65	1.167	55.2	0.652	1.651	95.9	196.8	---	2.728	-1.62	0.431	63.4	8.7	-2.0	0.317
4-3710	4-4190	0.659	300.2	-30.4	-6.51	1.172	56.6	0.642	1.681	92.4	198.0	---	2.761	-1.65	0.440	63.0	11.9	-2.1	0.313
4-3710	4-4210	0.638	302.2	-30.4	-6.36	1.176	58.0	0.632	1.711	89.0	199.3	---	2.793	-1.70	0.448	62.6	15.1	-2.2	0.309
4-3710	4-4230	0.617	304.2	-30.3	-6.21	1.180	59.3	0.623	1.740	85.7	200.6	---	2.824	-1.75	0.456	62.3	18.5	-2.3	0.305
4-3710	4-4250	0.597	306.2	-30.1	-6.05	1.184	60.6	0.615	1.768	82.3	201.9	---	2.855	-1.83	0.464	61.9	21.9	-2.5	0.302
4-3710	4-4270	0.577	308.2	-29.9	-5.87	1.188	61.9	0.607	1.795	79.0	203.1	---	2.885	-1.92	0.472	61.6	25.3	-2.7	0.299
4-3710	4-4290	0.557	310.3	-29.6	-5.68	1.191	63.1	0.600	1.821	75.7	204.4	---	2.914	-2.04	0.479	61.4	28.8	-2.9	0.296
4-3710	4-4310	0.538	312.3	-29.2	-5.45	1.195	64.4	0.593	1.847	72.5	205.7	---	2.942	-2.19	0.486	61.1	32.4	-3.2	0.293
4-3710	4-4330	0.519	314.4	-28.6	-5.20	1.198	65.6	0.587	1.872	69.2	207.0	---	2.970	-2.37	0.494	60.8	36.0	-3.5	0.291
4-3710	4-4350	0.500	316.5	-27.9	-4.89	1.200	66.8	0.581	1.896	66.0	208.3	---	2.997	-2.61	0.501	60.6	39.7	-3.9	0.289
4-3710	4-4370	0.481	318.6	-27.0	-4.51	1.203	68.0	0.575	1.919	62.7	209.7	---	3.024	-2.92	0.508	60.3	43.4	-4.5	0.287
4-3710	4-4390	0.462	320.7	-25.7	-4.02	1.206	69.1	0.570	1.942	59.5	211.0	---	3.050	-3.34	0.515	60.1	47.2	-5.2	0.286
4-3710	4-4410	0.443	322.7	-23.8	-3.35	1.208	70.3	0.566	1.964	56.3	212.4	---	3.075	-3.93	0.523	59.9	51.1	-6.2	0.286
4-3710	4-4430	0.424	324.4	-21.0	-2.39	1.210	71.5	0.562	1.985	53.0	213.8	---	3.100	-4.83	0.530	59.7	55.1	-7.7	0.286
4-3710	4-4450	0.406	325.6	-16.3	-0.84	1.212	72.6	0.558	2.006	49.8	215.2	---	3.125	-6.31	0.537	59.4	59.2	-10.2	0.288
4-3710	4-4470	0.391	325.1	-7.2	2.14	1.214	73.8	0.554	2.026	46.5	216.6	---	3.150	-9.23	0.545	59.2	63.8	-14.8	0.295
4-3710	4-4490	0.420	317.5	15.2	10.29	1.216	74.9	0.551	2.046	43.3	218.0	---	3.174	-17.32	0.553	59.0	70.5	-25.7	0.325
4-3720	4-3860	1.322	269.4	-26.7	-22.00	1.062	10.9	0.982	1.189	167.5	177.7	---	---	-15.64	0.217	155.3	346.6	-2.3	0.611
4-3720	4-3880	1.249	272.3	-27.1	-16.19	1.058	15.8	0.963	1.176	162.0	177.9	---	---	-9.97	0.175	132.6	345.4	-2.3	0.552
4-3720	4-3900	1.190	275.1	-27.4	-13.47	1.061	20.0	0.941	1.184	157.1	178.7	---	---	-7.39	0.171	109.7	344.7	-2.3	0.510
4-3720	4-3920	1.139	277.7	-27.7	-11.87	1.067	23.7	0.918	1.204	152.4	179.7	---	---	-5.94	0.189	92.9	344.5	-2.3	0.479
4-3720	4-3940	1.095	280.2	-27.9	-10.81	1.076	26.9	0.895	1.230	148.0	180.9	---	2.331	-5.01	0.214	82.2	344.9	-2.3	0.455
4-3720	4-3960	1.055	282.6	-28.1	-10.03	1.085	29.9	0.873	1.260	143.8	182.2	---	2.360	-4.38	0.241	75.5	345.6	-2.3	0.436
4-3720	4-3980	1.018	285.0	-28.2	-9.43	1.094	32.5	0.851	1.293	139.7	183.5	---	2.393	-3.93	0.267	71.1	346.8	-2.4	0.421
4-3720	4-4000	0.984	287.2	-28.3	-8.95	1.103	35.0	0.830	1.327	135.6	184.8	---	2.429	-3.60	0.290	68.1	348.3	-2.4	0.408
4-3720	4-4020	0.952	289.4	-28.3	-8.55	1.112	37.3	0.810	1.362	131.7	186.1	---	2.466	-3.35	0.311	66.1	350.2	-2.4	0.397
4-3720	4-4040	0.922	291.5	-28.4	-8.20	1.120	39.4	0.792	1.397	127.9	187.4	---	2.503	-3.16	0.330	64.6	352.3	-2.4	0.387
4-3720	4-4060	0.893	293.5	-28.4	-7.89	1.128	41.5	0.774	1.432	124.1	188.7	---	2.541	-3.01	0.347	63.4	354.6	-2.5	0.378
4-3720	4-4080	0.865	295.5	-28.3	-7.61	1.135	43.4	0.757	1.467	120.4	190.0	---	2.579	-2.90	0.362	62.6	357.1	-2.5	0.370

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3960	4-4160	0.873	356.8	16.2	13.18	1.344	127.7	0.881	5.026	278.4	488.9	0.599	---	-14.03	0.771	146.9	124.1	-9.0	0.650
4-3960	4-4180	0.793	356.7	15.0	11.19	1.299	125.2	0.802	3.148	278.9	494.0	0.622	---	-12.35	0.687	142.5	126.0	-9.2	0.557
4-3960	4-4200	0.732	356.6	13.8	9.62	1.266	123.1	0.742	2.487	279.4	499.0	0.642	---	-11.10	0.620	137.9	127.4	-9.6	0.481
4-3960	4-4220	0.684	356.7	12.7	8.34	1.241	121.5	0.695	2.158	279.8	504.0	0.658	---	-10.14	0.566	133.0	128.3	-10.1	0.417
4-3960	4-4240	0.647	356.8	11.6	7.26	1.223	120.2	0.659	1.968	280.2	509.0	0.672	---	-9.40	0.523	128.0	128.6	-10.7	0.364
4-3960	4-4260	0.618	356.9	10.5	6.32	1.210	119.1	0.631	1.849	280.4	513.8	0.682	---	-8.81	0.489	122.8	128.1	-11.3	0.321
4-3960	4-4280	0.597	357.2	9.4	5.49	1.200	118.4	0.611	1.769	280.6	518.4	0.689	---	-8.34	0.462	117.5	126.9	-12.1	0.285
4-3960	4-4300	0.582	357.6	8.4	4.74	1.192	117.9	0.596	1.716	280.5	522.9	0.693	---	-7.97	0.442	112.1	124.8	-12.8	0.256
4-3960	4-4320	0.573	358.1	7.3	4.06	1.187	117.6	0.586	1.679	280.3	527.2	0.695	---	-7.68	0.427	106.8	121.9	-13.5	0.233
4-3960	4-4340	0.568	358.7	6.3	3.41	1.183	117.5	0.580	1.653	279.9	531.3	0.694	---	-7.45	0.416	101.6	118.3	-14.1	0.217
4-3960	4-4360	0.567	359.4	5.4	2.80	1.180	117.6	0.578	1.636	279.2	535.2	0.691	---	-7.28	0.409	96.6	114.3	-14.4	0.207
4-3960	4-4380	0.570	0.3	4.5	2.22	1.179	117.9	0.579	1.625	278.3	538.8	0.685	---	-7.16	0.405	91.7	110.1	-14.4	0.202
4-3960	4-4400	0.577	1.2	3.7	1.64	1.178	118.3	0.582	1.619	277.1	542.2	0.676	2.563	-7.08	0.405	86.9	106.3	-14.2	0.203
4-3960	4-4420	0.588	2.3	3.0	1.07	1.177	119.0	0.589	1.617	275.7	545.4	0.665	2.569	-7.06	0.406	82.4	103.1	-13.7	0.208
4-3960	4-4440	0.602	3.4	2.4	0.50	1.177	119.8	0.598	1.618	274.0	548.3	0.651	2.584	-7.08	0.409	78.1	100.8	-13.1	0.218
4-3960	4-4460	0.619	4.7	1.9	-0.08	1.178	120.8	0.609	1.621	272.1	551.0	0.634	2.607	-7.14	0.414	74.0	99.4	-12.4	0.230
4-3960	4-4480	0.641	6.1	1.5	-0.68	1.179	122.0	0.622	1.625	269.8	553.4	0.614	2.637	-7.26	0.421	70.0	98.9	-11.7	0.246
4-3960	4-4500	0.666	7.6	1.2	-1.31	1.180	123.3	0.638	1.632	267.2	555.5	0.590	2.673	-7.44	0.428	66.1	99.4	-11.0	0.264
4-3960	4-4520	0.695	9.2	1.0	-1.99	1.181	124.9	0.656	1.639	264.3	557.4	0.563	2.716	-7.67	0.437	62.3	100.6	-10.4	0.285
4-3960	4-4540	0.728	11.0	0.9	-2.72	1.182	126.8	0.677	1.648	261.0	558.9	0.532	2.764	-7.99	0.446	58.6	102.5	-9.9	0.309
4-3960	4-4560	0.766	12.9	0.9	-3.54	1.184	128.9	0.700	1.658	257.4	560.1	0.497	2.819	-8.40	0.456	54.9	105.1	-9.3	0.335
4-3960	4-4580	0.810	14.9	1.0	-4.46	1.185	131.3	0.726	1.669	253.3	561.0	0.458	2.881	-8.93	0.466	51.1	108.2	-8.9	0.364
4-3960	4-4600	0.860	17.1	1.3	-5.52	1.187	134.0	0.754	1.681	248.8	561.4	0.414	2.949	-9.62	0.477	47.3	111.9	-8.5	0.397
4-3970	4-4190	0.776	2.2	22.0	13.58	1.303	123.2	0.801	3.326	283.8	491.5	0.661	---	-15.48	0.698	142.0	129.3	-11.7	0.565
4-3970	4-4210	0.708	2.1	20.0	11.24	1.270	121.1	0.737	2.587	284.4	496.6	0.682	---	-13.46	0.632	137.4	131.0	-11.8	0.487
4-3970	4-4230	0.656	2.2	18.1	9.44	1.245	119.4	0.687	2.228	285.0	501.7	0.699	---	-11.97	0.578	132.7	132.2	-12.0	0.423
4-3970	4-4250	0.616	2.4	16.5	7.99	1.226	118.0	0.648	2.022	285.5	506.7	0.712	---	-10.84	0.535	127.8	132.8	-12.4	0.369
4-3970	4-4270	0.585	2.6	14.9	6.79	1.213	117.0	0.618	1.893	285.9	511.7	0.723	---	-9.97	0.501	122.8	132.7	-13.0	0.324
4-3970	4-4290	0.562	2.9	13.4	5.76	1.202	116.1	0.596	1.808	286.1	516.5	0.731	---	-9.28	0.475	117.7	131.9	-13.7	0.287
4-3970	4-4310	0.545	3.4	12.0	4.86	1.195	115.6	0.579	1.750	286.3	521.1	0.737	---	-8.73	0.454	112.6	130.3	-14.4	0.257
4-3970	4-4330	0.534	3.9	10.6	4.05	1.189	115.2	0.567	1.709	286.2	525.5	0.739	---	-8.30	0.439	107.5	127.8	-15.0	0.233
4-3970	4-4350	0.527	4.5	9.3	3.32	1.185	115.0	0.560	1.681	285.9	529.7	0.740	---	-7.95	0.428	102.5	124.6	-15.6	0.215
4-3970	4-4370	0.524	5.3	8.2	2.64	1.182	115.0	0.556	1.662	285.4	533.8	0.738	---	-7.67	0.421	97.7	120.7	-16.0	0.202
4-3970	4-4390	0.525	6.1	7.1	2.00	1.180	115.2	0.555	1.650	284.6	537.6	0.734	---	-7.46	0.417	93.0	116.6	-16.1	0.195
4-3970	4-4410	0.530	7.1	6.1	1.39	1.179	115.6	0.557	1.642	283.7	541.1	0.727	2.558	-7.30	0.416	88.6	112.6	-15.9	0.193
4-3970	4-4430	0.538	8.2	5.2	0.80	1.178	116.1	0.562	1.639	282.4	544.5	0.718	2.559	-7.20	0.417	84.3	109.1	-15.4	0.196
4-3970	4-4450	0.550	9.3	4.5	0.21	1.178	116.8	0.569	1.638	280.9	547.6	0.707	2.570	-7.14	0.421	80.2	106.3	-14.7	0.203
4-3970	4-4470	0.564	10.6	3.8	-0.37	1.178	117.6	0.578	1.640	279.1	550.5	0.692	2.588	-7.13	0.425	76.3	104.4	-13.9	0.213
4-3970	4-4490	0.583	12.0	3.3	-0.96	1.179	118.6	0.589	1.644	277.1	553.1	0.675	2.612	-7.17	0.431	72.6	103.5	-13.1	0.226
4-3970	4-4510	0.604	13.5	2.9	-1.57	1.180	119.8	0.603	1.649	274.7	555.5	0.655	2.643	-7.26	0.438	69.0	103.5	-12.3	0.242
4-3970	4-4530	0.629	15.1	2.6	-2.20	1.181	121.2	0.618	1.656	272.0	557.6	0.632	2.681	-7.40	0.446	65.5	104.3	-11.6	0.260
4-3970	4-4550	0.658	16.8	2.4	-2.87	1.182	122.8	0.637	1.664	269.0	559.5	0.605	2.724	-7.61	0.455	62.0	105.8	-10.9	0.281
4-3970	4-4570	0.692	18.6	2.4	-3.60	1.184	124.6	0.657	1.673	265.7	561.0	0.574	2.773	-7.89	0.464	58.6	108.0	-10.3	0.305
4-3970	4-4590	0.730	20.5	2.5	-4.40	1.185	126.7	0.680	1.683	261.9	562.3	0.539	2.828	-8.27	0.474	55.2	110.8	-9.8	0.331
4-3970	4-4610	0.773	22.6	2.7	-5.30	1.187	129.0	0.706	1.694	257.7	563.1	0.499	2.898	-8.76	0.485	51.7	114.1	-9.3	0.360
4-3980	4-4200	0.774	7.2	31.8	17.75	1.306	121.1	0.799	3.489	288.6	489.1	0.700	---	-20.36	0.707	141.4	131.8	-15.4	0.578
4-3980	4-4220	0.693	7.1	27.9	13.90	1.273	119.0	0.731	2.679	289.4	494.3	0.721	---	-16.81	0.641	136.9	134.1	-14.8	0.496
4-3980	4-4240	0.633	7.3	24.8	11.18	1.248	117.3	0.678	2.292	290.2	499.5	0.738	---	-14.38	0.588	132.3	135.7	-14.6	0.430
4-3980	4-4260	0.588	7.5	22.2	9.13	1.229	115.9	0.637	2.072	290.9	504.7	0.752	---	-12.63	0.545	127.5	136.6	-14.6	0.374
4-3980	4-4280	0.553	7.8	19.9	7.51	1.215	114.8	0.605	1.934	291.4	509.7	0.763	---	-11.32	0.512	122.6	136.9	-14.9	0.328
4-3980	4-4300	0.528	8.2	17.7	6.19	1.204	113.9	0.581	1.843	291.8	514.6	0.772	---	-10.32	0.485	117.7	136.5	-15.4	0.290
4-3980	4-4320	0.509	8.8	15.8	5.08	1.196	113.3	0.563	1.781	292.1	519.4	0.778	---	-9.53	0.465	112.7	135.2	-16.0	0.258
4-3980	4-4340	0.495	9.4	14.0	4.12	1.191	112.9	0.550	1.738	292.2	524.0	0.782	---	-8.91	0.450	107.9	133.2	-16.5	0.233
4-3980	4-4360	0.487	10.1	12.3	3.27	1.186	112.6	0.541	1.707	292.0	528.3	0.783	---	-8.41	0.439	103.1	130.3	-17.1	0.213
4-3980	4-4380	0.483	10.9	10.8	2.50	1.183	112.6	0.536	1.687	291.7	532.5	0.783	---	-8.01	0.432	98.5	126.7	-17.4	0.199
4-3980	4-4400	0.482	11.8	9.5	1.80	1.181	112.7	0.534	1.673	291.1	536.5	0.780	---	-7.69	0.428	94.0	122.7	-17.5	0.190
4-3980	4-4420	0.485	12.8	8.3	1.14	1.180	112.9	0.534	1.664	290.2	540.2	0.775	2.553	-7.44	0.427	89.8	118.7	-17.3	0.186
4-3980	4-4440	0.491	13.9	7.2	0.52	1.179	113.4	0.537	1.659	289.1	543.7	0.768	2.551	-7.25	0.428	85.7	114.9	-16.8	0.186
4-3980	4-4460	0.501	15.1	6.3	-0.08	1.179	113.9	0.543	1.658	287.8	547.0	0.758	2.550	-7.12	0.431	81.9	111.8	-16.1	0.190
4-3980	4-4480	0.513	16.4	5.5	-0.67	1.179	114.6	0.550	1.659	286.1	550.0	0.746	2.571	-7.03	0.435	78.2	109.5	-15.2	0.198
4-3980	4-4500	0.529	17.8	4.8	-1.25	1.179	115.5	0.559	1.662	284.2	552.9	0.732	2.592	-6.99	0.441	74.7	108.1	-14.3	0.209
4-3980	4-4520	0.547	19.3	4.3	-1.83	1.180	116.5	0.571	1.667	282.1	555.4	0.715	2.618	-7.00	0.448	71.3	107.7	-13.4	0.223
4-3980	4-4540	0.569	20.9	4.0	-2.43	1.181	117.7	0.584	1.673	279.6	557.8	0.695	2.650	-7.06	0.456	68.1	108.1	-12.5	0.239
4-3980	4-4560	0.595	22.6	3.7	-3.05	1.182	119.1	0.600	1.680	276.8	559.9	0.672	2.688	-7.18	0.464	64.9	109.2	-11.8	0.258
4-3980	4-4580	0.624	24.3	3.6	-3.71	1.183	120.7	0.618	1.688	273.7	561.7	0.645	2.732	-7.35	0.473	61.8	111.1	-11.0	0.278
4-3980	4-4600	0.657	26.2	3.7	-4.41	1.185	122.5	0.638	1.698	270.2	563.3	0.614	2.781	-7.60	0.483	58.6	113.5	-10.4	0.302
4-3980	4-4620	0.696	28.3	3.8	-5.18	1.186	124.6	0.661	1.708	266.3	564.5	0.578	2.837	-7.93	0.493	55.5	116.6	-9.8	0.328
4-3990	4-4210	0.826	12.3	47.2	26.39	1.308	119.0	0.797	3.628	293.5	487.0	0.738	---	-29.67	0.714	140.7	132.3	-21.6	0.609
4-3990	4-4230	0.701	11.4	39.5	18.83	1.275	116.9	0.725	2.758	294.6	492.3	0.759	---	-22.38	0.648	136.3	136.1	-19.4	0.513
4-3990	4-4250	0.620	11.5	33.9	14.15	1.250	115.1	0.669	2.347	295.5	497.6	0.777	---	-17.97	0.596	131.7	138.4	-18.2	0.440
4-3990	4-4270	0.565	11.9	29.5	10.97	1.231	113.7	0.628	2.115	296.4	502.8	0.791	---	-15.07	0.554	127.0	139.9	-17.6	0.381
4-3990	4-4290	0.524	12.4	25.8	8.65	1.217	112.6	0.593	1.970	297.1	508.0	0.802	---	-13.04	0.520	122.3	140.6	-17.4	0.333
4-3990	4-4310	0.494	13.0	22.7	6.87	1.206	111.7	0.567	1.875	297.7	513.0	0.811	---	-11.55	0.494	117.5	140.5	-17.4	0.293
4-3990	4-4330	0.473	13.7	19.9	5.45	1.198	111.0	0.548	1.809	298.1	517.9	0.818	---	-10.42	0.474	112.7	139.7	-17.7	0.260
4-3990	4-4350	0.458	14.4	17.5	4.27	1.192	110.6	0.534	1.763	298.3	522.6	0.822	---	-9.54	0.459	108.0	138.0	-18.1	0.233
4-3990	4-4370	0.448	15.2	15.3	3.26	1.187	110.3	0.524	1.731	298.3	527.1	0.824	---	-8.85	0.449	103.4	135.5	-18.5	0.212
4-3990	4-4390	0.442	16.1	13.4	2.39	1.184	110.2	0.518	1.709	298.0	531.4	0.824	---	-8.30	0.442	99.0	132.2	-18.7	0.196
4-3990	4-4410	0.440	17.1	11.6	1.60	1.182	110.2	0.514	1.694	297.6	535.5	0.823	---	-7.85	0.438	94.7	128.3	-18.8	0.185
4-3990	4-4430	0.442	18.2	10.1	0.89	1.181	110.4	0.514	1.684	296.8	539.4	0.819	---	-7.50	0.437	90.7	124.3	-18.5	0.179
4-3990	4-4450	0.447	19.4	8.8	0.23	1.180	110.7	0.515	1.679	295.9	543.0	0.813	2.544	-7.22	0.438	86.8	120.4	-18.0	0.178

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-3990	4-4470	0.455	20.7	7.7	-0.39	1.179	111.2	0.519	1.676	294.6	548.4	0.806	2.547	-7.00	0.440	83.2	117.0	-17.2	0.180
4-3990	4-4490	0.465	22.0	6.7	-0.98	1.179	111.8	0.525	1.677	293.1	549.6	0.796	2.557	-6.84	0.445	79.7	114.4	-16.2	0.186
4-3990	4-4510	0.479	23.4	6.0	-1.56	1.180	112.6	0.533	1.679	291.4	552.6	0.784	2.574	-6.73	0.450	76.4	112.6	-15.2	0.195
4-3990	4-4530	0.495	25.0	5.4	-2.13	1.180	113.5	0.543	1.683	289.3	555.4	0.770	2.597	-6.66	0.457	73.2	111.8	-14.2	0.207
4-3990	4-4550	0.514	26.6	4.9	-2.69	1.181	114.5	0.554	1.689	287.0	557.9	0.753	2.625	-6.65	0.465	70.1	111.9	-13.2	0.221
4-3990	4-4570	0.537	28.3	4.7	-3.27	1.182	115.7	0.568	1.695	284.4	560.2	0.733	2.658	-6.68	0.473	67.2	112.7	-12.3	0.238
4-3990	4-4590	0.563	30.0	4.5	-3.86	1.183	117.1	0.584	1.703	281.5	562.3	0.709	2.697	-6.77	0.482	64.3	114.2	-11.5	0.256
4-3990	4-4610	0.592	31.9	4.5	-4.49	1.185	118.7	0.601	1.712	278.2	564.1	0.682	2.741	-6.91	0.491	61.4	116.4	-10.8	0.277
4-3990	4-4630	0.626	33.9	4.7	-5.15	1.186	120.6	0.622	1.721	274.5	565.6	0.651	2.792	-7.12	0.501	58.6	119.2	-10.2	0.300
4-4000	4-4240	0.801	16.6	59.1	30.25	1.276	114.7	0.718	2.818	299.6	490.5	0.796	---	-34.41	0.653	135.6	134.5	-27.3	0.563
4-4000	4-4260	0.645	14.7	48.0	20.09	1.251	112.9	0.660	2.391	300.9	495.8	0.814	---	-24.50	0.602	131.1	139.6	-24.0	0.463
4-4000	4-4280	0.557	15.2	39.9	14.30	1.232	111.5	0.615	2.150	302.0	501.2	0.829	---	-18.95	0.560	126.5	142.3	-21.8	0.393
4-4000	4-4300	0.502	16.0	33.7	10.58	1.218	110.3	0.580	2.000	303.0	506.5	0.840	---	-15.49	0.527	121.8	143.6	-20.6	0.340
4-4000	4-4320	0.465	17.0	28.8	7.98	1.207	109.4	0.554	1.901	303.7	511.7	0.849	---	-13.14	0.502	117.1	144.0	-20.0	0.297
4-4000	4-4340	0.439	17.9	24.7	6.05	1.199	108.7	0.533	1.834	304.3	516.7	0.856	---	-11.47	0.482	112.5	143.6	-19.8	0.262
4-4000	4-4360	0.421	18.9	21.3	4.53	1.193	108.2	0.518	1.786	304.6	521.5	0.860	---	-10.22	0.468	107.9	142.2	-19.8	0.233
4-4000	4-4380	0.409	19.9	18.3	3.31	1.188	107.9	0.508	1.753	304.7	526.1	0.863	---	-9.27	0.457	103.5	140.0	-19.9	0.211
4-4000	4-4400	0.403	20.9	15.7	2.28	1.185	107.8	0.501	1.729	304.6	530.5	0.863	---	-8.53	0.450	99.2	137.0	-19.9	0.193
4-4000	4-4420	0.400	22.1	13.5	1.39	1.183	107.8	0.497	1.713	304.2	534.7	0.862	---	-7.94	0.447	95.2	133.4	-19.8	0.181
4-4000	4-4440	0.401	23.3	11.6	0.61	1.181	107.9	0.495	1.703	303.6	538.7	0.860	---	-7.46	0.446	91.3	129.4	-19.5	0.174
4-4000	4-4460	0.404	24.5	9.9	-0.09	1.180	108.2	0.496	1.696	302.7	542.5	0.855	2.538	-7.09	0.447	87.6	125.4	-18.8	0.171
4-4000	4-4480	0.411	25.9	8.6	-0.73	1.180	108.6	0.499	1.694	301.6	546.0	0.849	2.538	-6.78	0.449	84.1	121.8	-17.9	0.171
4-4000	4-4500	0.420	27.3	7.5	-1.34	1.180	109.1	0.503	1.693	300.2	549.4	0.841	2.548	-6.55	0.454	80.8	118.9	-16.9	0.176
4-4000	4-4520	0.432	28.8	6.6	-1.91	1.180	109.8	0.510	1.695	298.5	552.5	0.831	2.559	-6.37	0.459	77.6	116.9	-15.7	0.183
4-4000	4-4540	0.447	30.4	5.9	-2.45	1.181	110.6	0.518	1.699	296.6	555.4	0.819	2.579	-6.24	0.466	74.6	115.8	-14.6	0.194
4-4000	4-4560	0.464	32.1	5.4	-2.99	1.181	111.5	0.528	1.704	294.4	558.1	0.804	2.604	-6.15	0.473	71.8	115.5	-13.5	0.206
4-4000	4-4580	0.484	33.8	5.1	-3.53	1.182	112.6	0.540	1.710	291.9	560.6	0.787	2.633	-6.12	0.481	69.0	116.1	-12.5	0.221
4-4000	4-4600	0.507	35.6	5.0	-4.07	1.183	113.9	0.553	1.718	289.1	562.8	0.767	2.668	-6.13	0.490	66.4	117.4	-11.6	0.237
4-4000	4-4620	0.533	37.5	5.0	-4.62	1.184	115.3	0.569	1.726	286.0	564.8	0.744	2.707	-6.19	0.499	63.7	119.4	-10.9	0.256
4-4000	4-4640	0.563	39.5	5.1	-5.20	1.186	116.9	0.587	1.735	282.6	566.5	0.717	2.753	-6.30	0.509	61.1	121.9	-10.2	0.277
4-4010	4-4270	0.830	21.9	73.0	36.26	1.251	110.8	0.650	2.422	306.2	496.4	0.848	---	-41.21	0.605	130.4	134.4	-33.7	0.547
4-4010	4-4290	0.606	16.3	57.1	21.69	1.232	109.2	0.603	2.177	307.8	499.9	0.864	---	-26.85	0.585	125.8	142.2	-29.0	0.427
4-4010	4-4310	0.501	17.7	45.7	14.31	1.218	108.0	0.567	2.024	309.0	505.3	0.876	---	-19.69	0.533	121.2	145.5	-25.7	0.355
4-4010	4-4330	0.443	19.5	37.3	9.95	1.207	107.1	0.540	1.923	310.0	510.6	0.884	---	-15.55	0.508	116.6	146.8	-23.6	0.304
4-4010	4-4350	0.408	21.0	30.7	7.06	1.199	106.4	0.519	1.853	310.7	515.7	0.891	---	-12.88	0.488	112.1	146.9	-22.4	0.265
4-4010	4-4370	0.386	22.5	25.5	4.99	1.193	105.9	0.504	1.805	311.1	520.7	0.895	---	-11.04	0.474	107.7	145.9	-21.7	0.234
4-4010	4-4390	0.372	23.8	21.3	3.42	1.189	105.6	0.493	1.771	311.4	525.4	0.898	---	-9.71	0.464	103.4	144.0	-21.3	0.210
4-4010	4-4410	0.364	25.1	17.8	2.18	1.186	105.4	0.485	1.747	311.3	529.9	0.899	---	-8.71	0.458	99.2	141.3	-21.0	0.191
4-4010	4-4430	0.361	26.5	14.8	1.15	1.183	105.4	0.481	1.730	311.1	534.2	0.899	---	-7.93	0.454	95.3	137.8	-20.6	0.177
4-4010	4-4450	0.361	27.8	12.4	0.29	1.182	105.5	0.478	1.719	310.5	538.3	0.897	---	-7.32	0.453	91.6	133.9	-20.0	0.169
4-4010	4-4470	0.364	29.3	10.4	-0.47	1.181	105.7	0.478	1.712	309.7	542.2	0.893	2.532	-6.84	0.454	88.0	129.9	-19.2	0.164
4-4010	4-4490	0.370	30.7	8.8	-1.14	1.180	106.1	0.480	1.709	308.7	545.8	0.888	2.530	-6.45	0.457	84.7	126.2	-18.2	0.164
4-4010	4-4510	0.378	32.3	7.5	-1.75	1.180	106.6	0.484	1.709	307.4	549.2	0.881	2.536	-6.14	0.462	81.5	123.1	-17.0	0.167
4-4010	4-4530	0.389	33.9	6.5	-2.31	1.180	107.2	0.489	1.710	305.8	552.5	0.873	2.547	-5.90	0.467	78.6	120.9	-15.8	0.173
4-4010	4-4550	0.402	35.6	5.7	-2.84	1.181	107.9	0.496	1.713	303.9	555.5	0.863	2.564	-5.71	0.474	75.7	119.5	-14.5	0.182
4-4010	4-4570	0.417	37.3	5.2	-3.34	1.182	108.7	0.505	1.718	301.8	558.3	0.851	2.580	-5.57	0.481	73.1	119.0	-13.4	0.193
4-4010	4-4590	0.435	39.-1	4.9	-3.84	1.182	109.7	0.515	1.724	299.4	560.9	0.836	2.612	-5.47	0.489	70.5	119.4	-12.3	0.206
4-4010	4-4610	0.456	40.9	4.8	-4.32	1.183	110.8	0.527	1.731	296.7	563.3	0.819	2.643	-5.42	0.498	68.0	120.5	-11.4	0.222
4-4010	4-4630	0.479	42.9	4.9	-4.81	1.184	112.1	0.540	1.739	293.7	565.5	0.799	2.679	-5.42	0.507	65.6	122.3	-10.5	0.239
4-4010	4-4650	0.506	44.9	5.1	-5.31	1.186	113.6	0.556	1.748	290.4	567.4	0.776	2.720	-5.45	0.516	63.2	124.7	-9.8	0.258
4-4020	4-4220	0.730	55.8	-21.5	-22.11	1.352	112.8	0.875	6.824	310.9	475.4	0.850	---	17.22	0.799	141.7	144.3	13.4	0.634
4-4020	4-4240	0.763	64.9	-31.0	-29.13	1.308	110.5	0.771	3.789	312.4	481.1	0.869	---	24.06	0.720	137.6	144.0	20.3	0.571
4-4020	4-4260	0.945	84.3	-39.6	-44.05	1.275	108.5	0.691	2.870	314.2	486.9	0.888	---	38.79	0.657	133.3	138.2	31.4	0.575
4-4020	4-4300	0.961	103.3	87.7	47.30	1.232	107.1	0.592	2.192	313.2	498.9	0.894	---	-52.93	0.567	125.1	130.1	-39.4	0.583
4-4020	4-4320	0.591	14.5	67.0	23.96	1.218	105.7	0.555	2.039	315.2	504.4	0.908	---	-29.77	0.536	120.5	143.5	-34.5	0.405
4-4020	4-4340	0.451	18.8	51.0	14.13	1.208	104.7	0.527	1.938	316.4	509.8	0.917	---	-20.12	0.512	115.9	148.1	-29.5	0.322
4-4020	4-4360	0.387	22.1	39.5	8.97	1.200	104.0	0.506	1.869	317.4	515.1	0.923	---	-15.14	0.493	111.5	149.4	-26.2	0.271
4-4020	4-4380	0.355	24.6	31.0	5.80	1.194	103.5	0.490	1.820	318.0	520.1	0.927	---	-12.16	0.480	107.2	149.0	-24.2	0.235
4-4020	4-4400	0.337	26.6	24.5	3.65	1.189	103.2	0.479	1.785	318.3	525.0	0.930	---	-10.20	0.470	103.0	147.4	-22.9	0.208
4-4020	4-4420	0.327	28.4	19.5	2.07	1.186	103.0	0.471	1.761	318.4	529.6	0.931	---	-8.82	0.464	99.0	144.9	-22.0	0.188
4-4020	4-4440	0.323	30.1	15.5	0.86	1.184	103.0	0.466	1.744	318.2	534.0	0.931	---	-7.81	0.461	95.2	141.6	-21.1	0.173
4-4020	4-4460	0.323	31.7	12.4	-0.12	1.182	103.1	0.464	1.733	317.7	538.2	0.929	---	-7.04	0.460	91.6	137.7	-20.2	0.163
4-4020	4-4480	0.326	33.3	9.9	-0.93	1.181	103.3	0.463	1.726	316.9	542.1	0.927	2.526	-6.44	0.462	88.2	133.7	-19.1	0.158
4-4020	4-4500	0.331	35.0	8.0	-1.63	1.181	103.6	0.464	1.723	315.9	545.8	0.923	2.523	-5.97	0.465	85.0	130.0	-17.9	0.157
4-4020	4-4520	0.339	36.7	6.5	-2.24	1.180	104.1	0.467	1.722	314.6	549.3	0.917	2.527	-5.60	0.469	82.0	126.8	-16.5	0.159
4-4020	4-4540	0.349	38.4	5.4	-2.79	1.181	104.6	0.472	1.724	313.1	552.6	0.910	2.537	-5.30	0.475	79.2	124.4	-15.2	0.164
4-4020	4-4560	0.361	40.2	4.7	-3.30	1.181	105.3	0.478	1.727	311.3	555.7	0.902	2.552	-5.05	0.481	76.5	122.9	-13.9	0.172
4-4020	4-4580	0.375	42.1	4.2	-3.77	1.182	106.0	0.485	1.731	309.2	558.6	0.892	2.571	-4.88	0.488	74.0	122.3	-12.6	0.182
4-4020	4-4600	0.391	44.0	3.9	-4.21	1.183	106.9	0.494	1.737	306.9	561.3	0.879	2.596	-4.74	0.497	71.6	122.5	-11.5	0.194
4-4020	4-4620	0.409	45.9	3.9	-4.64	1.184	108.0	0.504	1.744	304.3	563.8	0.865	2.623	-4.64	0.505	69.3	123.5	-10.6	0.208
4-4020	4-4640	0.430	48.0	4.1	-5.07	1.185	109.2	0.516	1.752	301.4	566.1	0.848	2.656	-4.58	0.514	67.1	125.1	-9.7	0.224
4-4020	4-4660	0.454	50.1	4.4	-5.49	1.186	110.5	0.530	1.760	298.1	568.2	0.828	2.693	-4.56	0.523	64.9	127.4	-9.0	0.241
4-4030	4-4230	0.620	53.4	-13.5	-14.90	1.348	110.1	0.864	6.529	316.6	474.1	0.886	---	9.43	0.794	140.7	148.7	7.8	0.607
4-4030	4-4250	0.588	56.4	-20.4	-17.35	1.305	108.0	0.759	3.737	318.0	480.1	0.902	---	11.74	0.717	136.6	150.2	10.9	0.527
4-4030	4-4270	0.595	61.7	-28.8	-21.37	1.273	106.2	0.679	2.857	319.6	486.1	0.917	---	15.61	0.655	132.5	150.8	16.1	0.468
4-4030	4-4290	0.676	72.7	-38.9	-29.16	1.249	104.7	0.619	2.436	321.2	492.1	0.929	---	23.26	0.607	128.1	149.1	25.3	0.441
4-4030	4-4310	0.975	99.9	-45.9	-49.30	1.231	103.2	0.571	2.197	323.2	498.0	0.941	---	43.25	0.568	123.6	138.0	39.0	0.515
4-4030	4-4350	0.614	0.7	77.9	27.79	1.207	102.4	0.514	1.947	323.0	509.5	0.945	---	-34.13	0.514	115.1	142.9	-40.3	0.404
4-4030	4-4370	0.404	17.8	55.2	13.59	1.199	101.6	0.493	1.878	324.3	514.8	0.952	---	-20.07	0.497	110.8	150.0	-33.0	0.293
4-4030	4-4390	0.333	24.1	39.4	7.47	1.194	101.1	0.478	1.830	325.1	520.0	0.956	---	-14.09	0.484	106.5	151.1	-28.0	0.240

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4030	4-4410	0.304	27.8	28.5	4.09	1.189	100.8	0.467	1.796	325.5	524.9	0.958	---	-10.86	0.475	102.4	150.1	-24.9	0.207
4-4030	4-4430	0.292	30.5	20.7	1.94	1.186	100.6	0.459	1.772	325.7	529.6	0.959	---	-8.87	0.469	98.6	147.9	-22.8	0.185
4-4030	4-4450	0.288	32.8	15.1	0.44	1.184	100.6	0.454	1.755	325.5	534.1	0.959	---	-7.52	0.466	94.9	144.6	-21.2	0.169
4-4030	4-4470	0.288	34.7	11.0	-0.68	1.182	100.7	0.451	1.744	325.1	538.3	0.958	---	-6.56	0.466	91.4	140.8	-19.7	0.158
4-4030	4-4490	0.291	36.6	8.0	-1.55	1.181	100.9	0.450	1.738	324.3	542.3	0.956	2.520	-5.84	0.468	88.1	136.8	-18.2	0.152
4-4030	4-4510	0.296	38.5	5.7	-2.27	1.181	101.2	0.451	1.734	323.3	546.0	0.952	2.517	-5.29	0.471	85.1	133.1	-16.8	0.150
4-4030	4-4530	0.304	40.4	4.1	-2.88	1.181	101.6	0.453	1.734	322.1	549.6	0.948	2.520	-4.87	0.476	82.2	129.8	-15.3	0.152
4-4030	4-4550	0.313	42.3	3.0	-3.40	1.181	102.1	0.457	1.735	320.6	552.9	0.942	2.528	-4.53	0.481	79.5	127.4	-13.8	0.157
4-4030	4-4570	0.324	44.2	2.4	-3.86	1.182	102.7	0.462	1.739	318.8	556.1	0.935	2.542	-4.26	0.488	77.0	125.8	-12.5	0.164
4-4030	4-4590	0.337	46.2	2.0	-4.29	1.182	103.5	0.468	1.743	316.7	559.1	0.927	2.560	-4.05	0.495	74.6	125.1	-11.2	0.173
4-4030	4-4610	0.351	48.3	1.9	-4.67	1.183	104.3	0.476	1.749	314.4	561.8	0.917	2.582	-3.89	0.504	72.4	125.3	-10.1	0.185
4-4030	4-4630	0.368	50.4	2.1	-5.04	1.184	105.3	0.485	1.756	311.8	564.4	0.904	2.607	-3.76	0.512	70.2	126.2	-9.2	0.198
4-4030	4-4650	0.387	52.5	2.5	-5.39	1.185	106.4	0.495	1.764	309.0	566.8	0.890	2.637	-3.67	0.521	68.2	127.8	-8.4	0.212
4-4030	4-4670	0.408	54.8	3.0	-5.74	1.186	107.6	0.507	1.772	305.8	569.0	0.873	2.671	-3.61	0.530	66.2	130.0	-7.7	0.228
4-4040	4-4220	0.613	53.2	-4.5	-10.40	1.400	109.3	0.99323	3.568	321.3	467.2	0.905	---	4.49	0.881	143.3	149.9	3.4	0.688
4-4040	4-4240	0.545	53.7	-8.6	-11.13	1.343	107.1	0.849	6.076	322.7	473.2	0.921	---	5.12	0.786	139.5	152.0	4.4	0.587
4-4040	4-4260	0.498	54.5	-13.5	-12.11	1.301	105.1	0.743	3.634	324.3	479.4	0.934	---	5.99	0.711	135.5	153.7	5.9	0.506
4-4040	4-4280	0.470	55.8	-19.2	-13.48	1.270	103.5	0.664	2.817	326.0	485.6	0.946	---	7.25	0.651	131.4	155.2	8.1	0.439
4-4040	4-4300	0.464	58.3	-26.1	-15.60	1.247	102.1	0.605	2.419	327.6	491.8	0.956	---	9.27	0.604	127.1	156.1	11.6	0.386
4-4040	4-4320	0.491	63.4	-34.7	-19.34	1.230	100.9	0.559	2.190	329.2	497.9	0.965	---	12.91	0.567	122.7	156.0	17.8	0.348
4-4040	4-4340	0.603	76.4	-45.5	-27.77	1.217	100.0	0.525	2.045	330.8	503.8	0.971	---	21.24	0.537	118.3	152.9	29.7	0.346
4-4040	4-4360	1.108	119.4	-49.8	-59.28	1.207	99.0	0.498	1.948	332.8	509.6	0.979	---	52.64	0.515	113.8	133.2	44.7	0.532
4-4040	4-4380	0.736	262.2	82.3	36.73	1.199	99.2	0.482	1.882	331.3	515.0	0.975	---	-43.47	0.498	109.9	138.3	-45.7	0.451
4-4040	4-4400	0.355	15.0	56.8	12.36	1.193	98.6	0.466	1.835	332.6	520.3	0.980	---	-19.19	0.486	105.7	151.1	-35.6	0.265
4-4040	4-4420	0.279	26.0	34.6	5.12	1.189	98.3	0.455	1.802	333.2	525.3	0.982	---	-12.06	0.478	101.7	152.0	-27.9	0.209
4-4040	4-4440	0.260	31.0	21.0	1.75	1.186	98.2	0.448	1.779	333.3	530.0	0.982	---	-8.79	0.473	97.9	150.1	-23.4	0.180
4-4040	4-4460	0.256	34.3	12.7	-0.22	1.184	98.2	0.443	1.763	333.2	534.5	0.982	---	-6.93	0.471	94.3	147.0	-20.4	0.163
4-4040	4-4480	0.257	36.8	7.3	-1.51	1.183	98.2	0.440	1.753	332.7	538.7	0.981	---	-5.74	0.471	91.0	143.2	-18.1	0.152
4-4040	4-4500	0.261	39.0	3.7	-2.44	1.182	98.5	0.439	1.747	332.0	542.8	0.980	2.514	-4.92	0.473	87.8	139.2	-16.2	0.146
4-4040	4-4520	0.267	41.1	1.3	-3.15	1.181	98.8	0.440	1.744	331.0	546.5	0.977	2.511	-4.33	0.477	84.9	135.4	-14.4	0.144
4-4040	4-4540	0.274	43.2	-0.2	-3.72	1.181	99.2	0.442	1.744	329.7	550.1	0.973	2.514	-3.88	0.482	82.2	132.2	-12.8	0.146
4-4040	4-4560	0.283	45.3	-1.1	-4.18	1.182	99.7	0.445	1.745	328.2	553.5	0.969	2.522	-3.54	0.487	79.6	129.8	-11.4	0.150
4-4040	4-4580	0.293	47.4	-1.5	-4.58	1.182	100.3	0.449	1.749	326.4	556.7	0.963	2.534	-3.27	0.494	77.3	128.2	-10.1	0.157
4-4040	4-4600	0.305	49.6	-1.6	-4.94	1.183	101.0	0.455	1.754	324.3	559.7	0.956	2.551	-3.06	0.502	75.0	127.6	-9.0	0.166
4-4040	4-4620	0.317	51.8	-1.3	-5.25	1.183	101.8	0.461	1.760	322.0	562.5	0.948	2.571	-2.89	0.510	72.9	127.8	-8.0	0.177
4-4040	4-4640	0.332	54.1	-0.8	-5.54	1.184	102.7	0.469	1.767	319.4	565.1	0.938	2.595	-2.76	0.519	70.9	128.7	-7.2	0.189
4-4040	4-4660	0.349	56.5	-0.2	-5.81	1.185	103.7	0.478	1.774	316.8	567.6	0.926	2.623	-2.68	0.528	69.0	130.3	-6.5	0.203
4-4040	4-4680	0.367	58.9	0.7	-6.07	1.187	104.9	0.489	1.783	313.5	569.8	0.912	2.654	-2.59	0.537	67.1	132.5	-5.9	0.218
4-4050	4-4210	0.641	54.8	0.6	-8.34	1.468	108.3	1.172	-5.374	326.2	460.4	0.924	---	1.92	0.986	145.6	150.6	1.4	0.790
4-4050	4-4230	0.550	54.6	-2.4	-8.57	1.392	105.9	0.97132	.233	327.7	466.5	0.939	---	2.09	0.867	142.1	152.8	1.7	0.667
4-4050	4-4250	0.483	54.2	-5.8	-8.85	1.337	103.8	0.828	5.530	329.3	472.8	0.952	---	2.31	0.775	138.3	154.7	2.1	0.568
4-4050	4-4270	0.433	53.7	-9.5	-9.20	1.296	102.1	0.724	3.487	331.2	479.2	0.964	---	2.60	0.702	134.3	156.5	2.7	0.488
4-4050	4-4290	0.398	53.3	-13.6	-9.65	1.267	100.5	0.647	2.753	333.0	485.6	0.973	---	2.99	0.644	130.1	158.0	3.5	0.421
4-4050	4-4310	0.374	53.1	-18.0	-10.27	1.244	99.3	0.589	2.385	334.8	492.0	0.981	---	3.55	0.599	125.8	159.2	4.7	0.366
4-4050	4-4330	0.361	53.4	-22.9	-11.17	1.228	98.2	0.545	2.171	336.6	498.3	0.987	---	4.39	0.563	121.5	159.9	6.6	0.320
4-4050	4-4350	0.363	54.8	-28.8	-12.63	1.215	97.4	0.513	2.034	338.1	504.3	0.992	---	5.80	0.535	117.1	160.1	9.8	0.282
4-4050	4-4370	0.390	58.8	-36.7	-15.52	1.205	96.7	0.488	1.943	339.4	510.2	0.995	---	8.63	0.514	112.8	159.3	16.1	0.256
4-4050	4-4390	0.511	72.8	-49.4	-23.87	1.198	96.2	0.469	1.880	340.5	515.8	0.998	---	16.93	0.498	108.6	155.3	31.2	0.265
4-4050	4-4430	0.292	14.4	51.3	9.28	1.189	95.8	0.446	1.805	341.2	528.1	1.000	---	-16.34	0.480	100.7	151.9	-35.5	0.229
4-4050	4-4450	0.231	29.8	19.2	1.29	1.186	95.7	0.439	1.783	341.4	530.8	1.000	---	-8.40	0.476	97.1	151.7	-23.2	0.175
4-4050	4-4470	0.230	35.1	5.8	-1.52	1.184	95.7	0.434	1.768	341.2	535.3	1.000	---	-5.65	0.474	93.6	148.6	-17.5	0.155
4-4050	4-4490	0.235	38.2	-0.8	-2.96	1.183	95.8	0.432	1.759	340.7	539.5	0.999	---	-4.27	0.475	90.4	144.7	-14.2	0.144
4-4050	4-4510	0.241	40.7	-4.3	-3.85	1.182	96.0	0.431	1.753	339.9	543.5	0.998	2.509	-3.44	0.478	87.3	140.7	-11.9	0.139
4-4050	4-4530	0.247	42.9	-6.2	-4.46	1.182	96.3	0.431	1.751	338.9	547.3	0.996	2.508	-2.89	0.481	84.5	137.0	-10.1	0.138
4-4050	4-4550	0.254	45.1	-7.2	-4.90	1.182	96.7	0.433	1.751	337.5	550.9	0.993	2.509	-2.51	0.487	81.9	133.9	-8.6	0.140
4-4050	4-4570	0.262	47.4	-7.5	-5.25	1.182	97.2	0.436	1.753	335.9	554.2	0.990	2.517	-2.22	0.493	79.5	131.6	-7.4	0.145
4-4050	4-4590	0.270	49.6	-7.4	-5.54	1.183	97.8	0.439	1.757	334.1	557.4	0.985	2.529	-2.01	0.500	77.2	130.2	-6.4	0.152
4-4050	4-4610	0.280	52.0	-6.9	-5.78	1.183	98.5	0.444	1.763	332.0	560.4	0.980	2.546	-1.84	0.508	75.1	129.6	-5.6	0.161
4-4050	4-4630	0.290	54.4	-6.1	-5.98	1.184	99.3	0.450	1.769	329.7	563.3	0.973	2.564	-1.71	0.516	73.2	129.9	-4.9	0.171
4-4050	4-4650	0.303	56.9	-5.1	-6.17	1.185	100.2	0.456	1.776	327.1	565.9	0.965	2.587	-1.61	0.525	71.3	131.0	-4.4	0.183
4-4050	4-4670	0.317	59.5	-4.0	-6.33	1.186	101.2	0.464	1.784	324.2	568.4	0.956	2.612	-1.53	0.534	69.5	132.6	-3.9	0.196
4-4050	4-4690	0.333	62.2	-2.7	-6.49	1.187	102.3	0.473	1.793	321.1	570.7	0.944	2.641	-1.47	0.543	67.8	134.9	-3.5	0.210
4-4060	4-4220	0.578	55.9	1.3	-7.28	1.454	104.5	1.139	-6.865	332.9	480.0	0.957	---	0.25	0.964	144.4	153.3	0.2	0.762
4-4060	4-4240	0.492	55.0	-1.4	-7.31	1.381	102.3	0.94216	.735	334.6	486.3	0.969	---	0.27	0.850	140.9	155.3	0.2	0.643
4-4060	4-4260	0.428	53.7	-4.4	-7.34	1.329	100.4	0.802	4.955	336.6	472.8	0.979	---	0.29	0.761	137.0	157.2	0.3	0.548
4-4060	4-4280	0.380	52.2	-7.4	-7.38	1.290	98.8	0.701	3.308	338.8	479.5	0.988	---	0.32	0.690	133.0	158.8	0.3	0.470
4-4060	4-4300	0.345	50.5	-10.5	-7.42	1.262	97.4	0.627	2.668	340.8	486.2	0.995	---	0.36	0.635	128.8	160.2	0.4	0.405
4-4060	4-4320	0.318	48.7	-13.5	-7.48	1.241	96.2	0.572	2.337	342.8	492.8	1.000	---	0.40	0.591	124.5	161.3	0.6	0.351
4-4060	4-4340	0.299	47.1	-16.2	-7.55	1.225	95.3	0.531	2.141	344.7	499.2	1.004	---	0.47	0.557	120.1	162.0	0.7	0.305
4-4060	4-4360	0.285	45.7	-18.8	-7.66	1.213	94.6	0.500	2.015	346.3	505.4	1.007	---	0.57	0.531	115.8	162.2	1.0	0.267
4-4060	4-4380	0.276	44.7	-21.1	-7.82	1.204	94.0	0.477	1.931	347.6	511.4	1.009	---	0.72	0.512	111.5	161.8	1.5	0.234
4-4060	4-4400	0.271	44.2	-23.5	-8.10	1.197	93.6	0.460	1.872	348.7	517.0	1.011	---	0.99	0.497	107.3	160.8	2.3	0.207
4-4060	4-4420	0.273	44.7	-26.7	-8.75	1.192	93.3	0.448	1.831	349.4	522.3	1.011	---	1.64	0.487	103.4	159.0	4.2	0.185
4-4060	4-4440	0.309	50.1	-36.4	-11.86	1.188	93.1	0.439	1.803	349.7	527.3	1.012	---	4.73	0.481	99.6	156.1	13.2	0.171
4-4060	4-4460	0.214	32.1	1.2	-1.99	1.186	93.1	0.432	1.783	349.8	532.0	1.012	---	-5.14	0.477	96.0	152.9	-15.5	0.159
4-4060	4-4480	0.233	39.1	-15.3	-5.48	1.184	93.1	0.428	1.770	349.5	536.5	1.012	---	-1.66	0.477	92.6	149.4	-5.6	0.143
4-4060	4-4500	0.239	41.1	-17.8	-6.16	1.183	93.3	0.426	1.762	348.9	540.6	1.011	2.512	-0.99	0.478	89.5	145.4	-3.5	0.136
4-4060	4-4520	0.242	42.8	-18.5	-6.45	1.182	93.6	0.425	1.757	348.1	544.6	1.010	2.504	-0.71	0.481	86.6	141.4	-2.6	0.133
4-4060	4-4540	0.246	44.6	-18.3	-6.61	1.182	93.9	0.425	1.756	346.9	548.3	1.009	2.503	-0.55	0.486	83.9	137.8	-2.0	0.134
4-4060	4-4560	0.249	46.5	-17.7	-6.72	1.182	94.3	0.427	1.757	345.5	551.8	1.007	2.506	-0.45	0.491	81.5	134.9	-1.6	0.137

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4060	4-4580	0.253	48.6	-16.8	-6.80	1.183	94.8	0.429	1.760	343.9	565.2	1.005	2.515	-0.39	0.498	79.2	132.8	-1.3	0.142
4-4060	4-4600	0.259	50.9	-15.6	-6.86	1.183	95.4	0.432	1.764	342.0	558.3	1.002	2.526	-0.34	0.505	77.0	131.6	-1.1	0.150
4-4060	4-4620	0.265	53.3	-14.2	-6.90	1.184	96.1	0.436	1.770	339.8	551.3	0.998	2.542	-0.30	0.513	75.0	131.3	-1.0	0.159
4-4060	4-4640	0.273	55.9	-12.6	-6.94	1.185	96.9	0.441	1.777	337.4	564.1	0.993	2.560	-0.28	0.522	73.2	131.8	-0.8	0.169
4-4060	4-4660	0.282	58.6	-10.9	-6.97	1.186	97.7	0.447	1.784	334.8	568.8	0.987	2.582	-0.26	0.531	71.5	133.0	-0.7	0.180
4-4060	4-4680	0.292	61.5	-9.0	-7.00	1.187	98.7	0.454	1.793	331.9	569.3	0.979	2.608	-0.24	0.540	69.8	134.8	-0.6	0.192
4-4060	4-4700	0.305	64.4	-7.1	-7.03	1.188	99.7	0.461	1.802	328.7	571.6	0.970	2.633	-0.23	0.549	68.3	137.1	-0.6	0.206
4-4070	4-4210	0.627	56.8	3.6	-6.60	1.535	102.5	1.378	-2.578	338.4	453.7	0.975	---	-1.08	1.083	146.5	153.7	-0.7	0.878
4-4070	4-4230	0.518	55.6	1.2	-6.50	1.438	100.4	1.097	10.121	340.1	460.0	0.985	---	-1.13	0.939	143.2	155.7	-0.9	0.732
4-4070	4-4250	0.439	53.7	-1.4	-6.39	1.369	98.5	0.907	10.633	342.2	466.7	0.993	---	-1.19	0.829	139.6	157.5	-1.0	0.617
4-4070	4-4270	0.381	51.3	-4.1	-6.27	1.319	96.8	0.773	4.399	344.5	473.6	1.000	---	-1.26	0.743	135.7	159.2	-1.2	0.525
4-4070	4-4290	0.338	48.6	-6.7	-6.13	1.283	95.3	0.676	3.109	346.9	480.5	1.006	---	-1.35	0.676	131.6	160.7	-1.5	0.450
4-4070	4-4310	0.306	45.7	-9.1	-5.97	1.256	94.1	0.607	2.566	349.2	487.5	1.010	---	-1.47	0.623	127.3	161.9	-1.9	0.388
4-4070	4-4330	0.281	42.7	-11.1	-5.77	1.236	93.0	0.555	2.276	351.5	494.3	1.013	---	-1.62	0.582	123.0	162.8	-2.4	0.336
4-4070	4-4350	0.263	39.8	-12.5	-5.53	1.221	92.2	0.517	2.101	353.5	500.9	1.014	---	-1.82	0.550	118.6	163.2	-3.0	0.292
4-4070	4-4370	0.249	37.1	-13.2	-5.23	1.210	91.6	0.489	1.988	355.2	507.2	1.015	---	-2.08	0.525	114.3	163.1	-3.9	0.256
4-4070	4-4390	0.237	34.5	-12.9	-4.81	1.202	91.1	0.468	1.911	356.6	513.1	1.016	---	-2.46	0.507	110.0	162.5	-5.2	0.225
4-4070	4-4410	0.227	32.0	-11.3	-4.20	1.196	90.7	0.453	1.859	357.6	518.7	1.016	---	-3.03	0.494	105.9	161.1	-7.2	0.200
4-4070	4-4430	0.216	29.2	-7.2	-3.21	1.191	90.5	0.442	1.822	358.3	524.0	1.016	---	-3.98	0.485	102.0	158.9	-10.5	0.181
4-4070	4-4450	0.206	24.8	2.4	-1.27	1.188	90.4	0.434	1.796	358.6	529.0	1.016	---	-5.87	0.480	98.2	155.8	-16.7	0.169
4-4070	4-4470	0.217	12.0	31.4	4.28	1.186	90.4	0.429	1.779	358.6	533.6	1.016	---	-11.39	0.478	94.7	151.2	-31.1	0.182
4-4070	4-4510	0.407	60.4	-53.3	-18.93	1.183	90.8	0.423	1.761	357.3	542.0	1.016	2.508	11.91	0.480	88.5	144.2	34.5	0.175
4-4070	4-4530	0.314	50.4	-41.9	-12.90	1.183	91.1	0.422	1.758	356.4	545.9	1.016	2.500	5.92	0.484	85.7	141.1	20.3	0.144
4-4070	4-4550	0.286	48.3	-36.0	-10.88	1.183	91.4	0.422	1.758	355.1	549.6	1.015	2.501	3.94	0.489	83.1	137.9	13.9	0.139
4-4070	4-4570	0.274	48.4	-32.0	-9.85	1.183	91.9	0.423	1.760	353.6	553.0	1.015	2.505	2.96	0.495	80.8	135.3	10.4	0.140
4-4070	4-4590	0.268	49.6	-28.8	-9.23	1.184	92.4	0.425	1.764	351.9	556.3	1.014	2.514	2.37	0.502	78.6	133.6	8.1	0.145
4-4070	4-4610	0.265	51.4	-26.0	-8.80	1.184	93.0	0.428	1.769	349.9	559.4	1.012	2.526	1.99	0.510	76.6	132.7	6.5	0.151
4-4070	4-4630	0.265	53.7	-23.3	-8.48	1.185	93.7	0.431	1.775	347.7	562.3	1.009	2.541	1.72	0.518	74.7	132.7	5.4	0.160
4-4070	4-4650	0.267	56.3	-20.7	-8.24	1.186	94.5	0.436	1.783	345.2	565.1	1.006	2.559	1.53	0.527	73.0	133.4	4.5	0.169
4-4070	4-4670	0.271	59.1	-18.0	-8.04	1.187	95.3	0.440	1.791	342.5	567.8	1.002	2.580	1.38	0.536	71.4	134.8	3.9	0.180
4-4070	4-4690	0.277	62.2	-15.4	-7.87	1.188	96.3	0.446	1.800	339.6	570.3	0.997	2.603	1.27	0.545	69.9	136.8	3.4	0.191
4-4070	4-4710	0.286	65.4	-12.7	-7.72	1.190	97.3	0.453	1.809	336.4	572.6	0.990	2.629	1.18	0.554	68.5	139.2	3.0	0.204
4-4080	4-4220	0.566	55.3	2.8	-6.11	1.511	97.9	1.313	-3.187	346.0	454.1	0.999	---	-2.25	1.048	145.3	155.9	-1.6	0.839
4-4080	4-4240	0.467	53.0	0.4	-5.91	1.419	96.1	1.046	21.910	348.1	460.8	1.005	---	-2.31	0.910	142.0	157.7	-1.9	0.699
4-4080	4-4260	0.396	50.0	-2.1	-5.70	1.355	94.4	0.865	7.495	350.5	467.9	1.009	---	-2.40	0.804	138.3	159.4	-2.2	0.589
4-4080	4-4280	0.345	46.4	-4.6	-5.48	1.308	92.9	0.740	3.889	353.2	475.1	1.013	---	-2.51	0.722	134.3	160.9	-2.6	0.501
4-4080	4-4300	0.309	42.4	-6.9	-5.23	1.275	91.6	0.650	2.902	355.9	482.4	1.015	---	-2.65	0.658	130.1	162.1	-3.1	0.430
4-4080	4-4320	0.282	38.4	-8.6	-4.95	1.250	90.5	0.586	2.453	358.6	489.6	1.016	---	-2.83	0.608	125.8	163.1	-3.8	0.370
4-4080	4-4340	0.263	34.4	-9.8	-4.63	1.231	89.6	0.539	2.205	1.0	136.6	---	---	-3.05	0.570	121.4	163.7	-4.6	0.321
4-4080	4-4360	0.248	30.8	-10.2	-4.25	1.217	89.0	0.505	2.053	3.1	143.3	---	---	-3.33	0.540	116.9	163.8	-5.7	0.279
4-4080	4-4380	0.237	27.4	-9.8	-3.79	1.207	88.4	0.481	1.953	4.9	149.6	---	---	-3.70	0.517	112.6	163.3	-7.2	0.245
4-4080	4-4400	0.228	24.3	-8.3	-3.21	1.200	88.0	0.462	1.886	6.2	155.5	---	---	-4.18	0.501	108.3	162.2	-9.2	0.217
4-4080	4-4420	0.220	21.4	-5.4	-2.44	1.194	87.8	0.449	1.840	7.1	161.0	---	---	-4.86	0.490	104.2	160.4	-11.9	0.195
4-4080	4-4440	0.213	18.4	-0.5	-1.37	1.190	87.7	0.440	1.808	7.7	166.2	---	---	-5.84	0.482	100.4	157.8	-15.7	0.178
4-4080	4-4460	0.209	14.6	7.9	0.27	1.187	87.6	0.433	1.786	7.9	171.0	---	---	-7.39	0.478	96.7	154.4	-21.1	0.169
4-4080	4-4480	0.215	8.1	22.7	3.14	1.185	87.7	0.428	1.771	7.7	175.6	---	---	-10.18	0.477	93.3	150.3	-29.2	0.173
4-4080	4-4500	0.273	350.6	47.5	9.56	1.184	87.8	0.425	1.763	7.3	179.8	---	---	-16.50	0.478	90.1	145.4	-41.1	0.207
4-4080	4-4520	0.674	273.0	62.5	34.61	1.183	87.9	0.423	1.758	7.1	183.9	---	2.502	-41.48	0.481	87.2	139.7	-51.5	0.407
4-4080	4-4540	0.899	122.2	-72.2	-47.89	1.183	88.8	0.422	1.757	4.1	187.3	---	2.498	41.13	0.486	84.7	140.6	51.6	0.406
4-4080	4-4560	0.472	64.2	-59.8	-22.87	1.183	89.0	0.422	1.758	3.3	190.9	---	2.500	16.20	0.492	82.2	138.4	41.5	0.205
4-4080	4-4580	0.368	54.7	-49.9	-16.45	1.184	89.5	0.423	1.761	1.8	194.3	---	2.508	9.88	0.498	79.9	135.9	30.0	0.168
4-4080	4-4600	0.324	52.2	-43.2	-13.57	1.184	90.0	0.425	1.766	360.0	557.5	1.016	2.516	7.10	0.506	77.9	134.4	22.4	0.161
4-4080	4-4620	0.301	52.3	-38.0	-11.93	1.185	90.6	0.427	1.772	357.9	560.6	1.016	2.529	5.55	0.514	76.0	133.8	17.3	0.162
4-4080	4-4640	0.288	53.7	-33.7	-10.85	1.186	91.3	0.430	1.779	355.8	563.4	1.015	2.544	4.57	0.523	74.2	134.0	13.9	0.167
4-4080	4-4660	0.280	55.8	-29.8	-10.08	1.187	92.1	0.433	1.788	353.0	566.2	1.014	2.561	3.91	0.532	72.6	135.0	11.4	0.175
4-4080	4-4680	0.276	58.6	-26.2	-9.49	1.188	93.0	0.437	1.796	350.3	568.8	1.011	2.582	3.43	0.541	71.2	136.6	9.6	0.184
4-4080	4-4700	0.275	61.7	-22.7	-9.02	1.190	93.9	0.442	1.806	347.3	571.3	1.008	2.604	3.07	0.550	69.8	138.7	8.2	0.194
4-4080	4-4720	0.277	65.2	-19.2	-8.63	1.191	94.9	0.447	1.816	344.0	573.6	1.004	2.628	2.80	0.559	68.5	141.3	7.1	0.206
4-4090	4-4210	0.644	54.3	3.9	-6.00	1.609	94.7	1.623	-1.620	352.3	448.6	1.009	---	-3.25	1.184	147.4	156.1	-2.1	0.973
4-4090	4-4230	0.517	51.7	1.6	-5.74	1.485	93.1	1.236	-4.289	354.4	455.3	1.012	---	-3.29	1.008	144.3	157.7	-2.4	0.798
4-4090	4-4250	0.429	48.0	-0.9	-5.46	1.400	91.5	0.987	78.698	357.0	462.5	1.014	---	-3.36	0.877	140.8	159.3	-2.8	0.664
4-4090	4-4270	0.369	43.6	-3.3	-5.18	1.339	90.0	0.820	5.640	359.9	470.0	1.015	---	-3.44	0.776	137.0	160.8	-3.3	0.560
4-4090	4-4290	0.327	38.8	-5.5	-4.87	1.296	88.8	0.705	3.439	3.0	117.6	---	---	-3.56	0.698	132.9	162.0	-3.8	0.476
4-4090	4-4310	0.298	34.0	-7.2	-4.55	1.265	87.7	0.624	2.696	6.0	125.2	---	---	-3.71	0.638	128.6	163.0	-4.5	0.408
4-4090	4-4330	0.278	29.3	-8.4	-4.20	1.242	86.8	0.567	2.334	8.9	132.7	---	---	-3.89	0.591	124.1	163.6	-5.4	0.351
4-4090	4-4350	0.264	25.0	-8.8	-3.80	1.225	86.1	0.526	2.127	11.4	139.7	---	---	-4.12	0.555	119.6	163.8	-6.5	0.305
4-4090	4-4370	0.254	21.3	-8.5	-3.35	1.213	85.5	0.497	1.998	13.5	146.4	---	---	-4.41	0.528	115.1	163.5	-7.9	0.266
4-4090	4-4390	0.247	18.0	-7.4	-2.83	1.204	85.1	0.476	1.913	15.2	152.7	---	---	-4.78	0.508	110.7	162.6	-9.7	0.234
4-4090	4-4410	0.240	15.3	-5.4	-2.21	1.197	84.8	0.460	1.855	16.4	158.5	---	---	-5.26	0.493	106.5	161.1	-12.0	0.209
4-4090	4-4430	0.235	12.8	-2.4	-1.44	1.192	84.7	0.449	1.816	17.2	163.8	---	---	-5.89	0.484	102.4	158.8	-14.9	0.189
4-4090	4-4450	0.231	10.3	2.0	-0.44	1.188	84.7	0.441	1.789	17.5	168.8	---	---	-6.74	0.478	98.6	155.8	-18.5	0.175
4-4090	4-4470	0.229	7.5	8.4	0.91	1.186	84.7	0.435	1.771	17.5	173.5	---	---	-7.95	0.475	95.0	152.2	-23.0	0.168
4-4090	4-4490	0.232	3.7	17.7	2.88	1.185	84.8	0.431	1.760	17.2	177.8	---	---	-9.78	0.476	91.7	148.2	-28.6	0.169
4-4090	4-4510	0.251	356.7	31.5	6.08	1.184	85.1	0.429	1.754	16.6	181.9	---	2.508	-12.85	0.478	88.6	144.2	-35.7	0.182
4-4090	4-4530	0.319	340.0	49.4	12.26	1.183	85.3	0.427	1.752	15.7	185.7	---	2.500	-18.89	0.482	85.8	140.9	-44.2	0.223
4-4090	4-4550	0.576	291.5	60.5	28.62	1.183	85.5	0.427	1.752	15.0	189.4	---	2.500	-35.11	0.487	83.1	140.0	-51.3	0.357
4-4090	4-4590	0.721	87.3	-72.8	-37.31	1.185	87.2	0.426	1.760	9.4	195.7	---	2.509	31.10	0.501	79.0	140.9	50.3	0.330
4-4090	4-4610	0.483	61.4	-60.5	-23.33	1.185	87.7	0.427	1.766	7.9	198.8	---	2.520	17.26	0.509	77.0	137.1	41.0	0.224
4-4090	4-4630	0.391	55.6	-51.6	-17.74	1.186	88.3	0.429	1.773	5.8	201.8	---	2.533	11.83	0.517	75.2	135.7	31.8	0.195
4-4090	4-4650	0.345	54.5	-45.0	-14.76	1.187	89.0	0.431	1.782	3.4	204.6	---	2.549	8.99	0.526	73.6	135.8	24.9	0.187

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4090	4-4670	0.317	55.4	-39.5	-12.88	1.189	89.7	0.433	1.791	0.8	207.3	---	2.567	7.28	0.536	72.1	136.8	20.0	0.189
4-4090	4-4690	0.299	57.4	-34.7	-11.58	1.190	90.6	0.437	1.800	358.0	569.8	1.014	2.586	6.14	0.545	70.7	138.4	16.5	0.194
4-4090	4-4710	0.288	60.3	-30.3	-10.61	1.191	91.6	0.440	1.811	354.9	572.3	1.013	2.608	5.33	0.555	69.5	140.7	13.8	0.202
4-4090	4-4730	0.281	63.8	-26.1	-9.84	1.193	92.6	0.445	1.821	351.6	574.5	1.011	2.632	4.75	0.564	68.3	143.5	11.8	0.212
4-4100	4-4220	0.599	49.7	2.4	-5.81	1.572	89.3	1.503	-2.014	1.2	90.2	---	---	-4.25	1.132	146.5	157.6	-2.9	0.922
4-4100	4-4240	0.486	45.6	-0.0	-5.46	1.457	88.0	1.149	-6.787	3.8	97.5	---	---	-4.25	0.964	143.3	159.1	-3.2	0.755
4-4100	4-4260	0.412	40.7	-2.4	-5.12	1.378	86.7	0.924	13.207	7.0	105.2	---	---	-4.29	0.839	139.6	160.4	-3.7	0.629
4-4100	4-4280	0.363	35.3	-4.5	-4.77	1.323	85.5	0.774	4.444	10.4	113.2	---	---	-4.35	0.744	135.7	161.6	-4.3	0.529
4-4100	4-4300	0.331	29.9	-6.2	-4.40	1.283	84.4	0.672	3.050	13.9	121.3	---	---	-4.45	0.671	131.4	162.5	-5.0	0.450
4-4100	4-4320	0.311	24.9	-7.2	-4.02	1.255	83.5	0.601	2.499	17.2	129.2	---	---	-4.58	0.614	126.9	163.2	-5.8	0.385
4-4100	4-4340	0.297	20.5	-7.7	-3.62	1.234	82.8	0.552	2.213	20.2	136.7	---	---	-4.74	0.571	122.4	163.4	-6.9	0.332
4-4100	4-4360	0.287	16.7	-7.5	-3.18	1.219	82.3	0.518	2.045	22.7	143.7	---	---	-4.96	0.538	117.7	163.2	-8.2	0.289
4-4100	4-4380	0.280	13.6	-6.7	-2.69	1.208	81.9	0.493	1.938	24.7	150.3	---	---	-5.22	0.513	113.1	162.4	-9.8	0.253
4-4100	4-4400	0.275	11.0	-5.4	-2.14	1.200	81.6	0.475	1.867	26.2	156.3	---	---	-5.56	0.496	108.7	160.9	-11.7	0.224
4-4100	4-4420	0.271	8.9	-3.4	-1.51	1.194	81.5	0.463	1.820	27.1	161.9	---	---	-5.99	0.484	104.4	158.8	-14.1	0.201
4-4100	4-4440	0.267	7.0	-0.7	-0.77	1.190	81.5	0.454	1.788	27.6	167.0	---	---	-6.53	0.476	100.4	156.1	-16.8	0.184
4-4100	4-4460	0.263	5.3	3.0	0.13	1.187	81.5	0.447	1.767	27.7	171.7	---	---	-7.24	0.472	96.6	152.7	-20.0	0.173
4-4100	4-4480	0.261	3.5	7.8	1.28	1.185	81.7	0.442	1.753	27.4	176.1	---	---	-8.19	0.471	93.1	149.0	-23.7	0.167
4-4100	4-4500	0.262	1.2	14.3	2.79	1.184	81.9	0.439	1.746	26.8	180.2	---	2.512	-9.52	0.473	89.8	145.2	-27.9	0.167
4-4100	4-4520	0.269	357.6	23.0	4.92	1.183	82.2	0.436	1.742	25.9	184.1	---	2.503	-11.46	0.476	86.9	141.7	-32.6	0.175
4-4100	4-4540	0.292	351.0	34.6	8.20	1.183	82.5	0.435	1.743	24.8	187.7	---	2.500	-14.55	0.481	84.2	139.0	-38.1	0.195
4-4100	4-4560	0.358	336.6	48.4	13.95	1.184	82.9	0.434	1.745	23.6	191.1	---	2.503	-20.12	0.487	81.7	137.8	-44.5	0.237
4-4100	4-4580	0.549	302.4	57.7	26.47	1.184	83.3	0.434	1.750	22.4	194.4	---	2.510	-32.45	0.495	79.4	139.8	-50.1	0.340
4-4100	4-4600	1.154	258.3	42.9	63.10	1.185	83.3	0.436	1.756	22.3	197.8	---	2.522	-68.89	0.503	77.2	148.1	-45.0	0.646
4-4100	4-4620	1.042	142.7	-81.0	-56.21	1.186	85.6	0.431	1.764	14.5	200.0	---	2.524	50.60	0.511	76.1	148.6	49.6	0.504
4-4100	4-4640	0.627	67.4	-68.9	-31.52	1.188	86.0	0.433	1.772	13.3	203.0	---	2.540	26.10	0.520	74.3	141.8	46.8	0.303
4-4100	4-4660	0.470	58.0	-57.9	-22.25	1.189	86.6	0.435	1.782	11.1	205.7	---	2.557	17.04	0.530	72.8	139.3	38.1	0.240
4-4100	4-4680	0.393	55.9	-49.9	-17.60	1.190	87.4	0.437	1.792	8.5	208.4	---	2.575	12.59	0.539	71.4	139.4	30.5	0.220
4-4100	4-4700	0.349	56.6	-43.5	-14.80	1.192	88.3	0.439	1.803	5.6	210.9	---	2.594	10.00	0.549	70.1	140.8	24.7	0.215
4-4100	4-4720	0.320	58.7	-37.9	-12.91	1.193	89.2	0.442	1.814	2.5	213.2	---	2.615	8.33	0.559	69.0	143.0	20.4	0.217
4-4100	4-4740	0.301	61.8	-32.9	-11.52	1.194	90.3	0.445	1.826	359.1	575.5	1.013	2.638	7.17	0.569	67.9	145.8	17.2	0.223
4-4110	4-4230	0.579	43.3	0.7	-5.69	1.533	83.5	1.372	-2.686	11.2	93.0	---	---	-5.20	1.075	145.9	158.6	-3.6	0.870
4-4110	4-4250	0.482	38.1	-1.5	-5.27	1.427	82.5	1.058	17.075	14.6	100.9	---	---	-5.15	0.916	142.4	159.8	-4.0	0.712
4-4110	4-4270	0.422	32.4	-3.5	-4.86	1.355	81.5	0.860	7.046	10.4	109.3	---	---	-5.14	0.798	138.6	160.9	-4.6	0.593
4-4110	4-4290	0.384	26.9	-5.1	-4.45	1.305	80.6	0.730	3.626	22.3	117.8	---	---	-5.17	0.709	134.4	161.7	-5.2	0.499
4-4110	4-4310	0.360	21.8	-6.0	-4.03	1.269	79.8	0.643	2.720	26.1	126.2	---	---	-5.22	0.640	129.9	162.3	-6.1	0.424
4-4110	4-4330	0.345	17.5	-6.5	-3.60	1.244	79.2	0.584	2.315	29.5	134.2	---	---	-5.32	0.588	125.3	162.5	-7.0	0.363
4-4110	4-4350	0.335	13.9	-6.4	-3.16	1.225	78.7	0.544	2.094	32.4	141.6	---	---	-5.45	0.548	120.5	162.2	-8.2	0.314
4-4110	4-4370	0.329	11.0	-5.8	-2.68	1.212	78.3	0.516	1.960	34.7	148.5	---	---	-5.62	0.519	115.7	161.5	-9.6	0.273
4-4110	4-4390	0.323	8.8	-4.9	-2.17	1.202	78.1	0.496	1.875	36.4	154.7	---	---	-5.84	0.497	111.0	160.1	-11.3	0.241
4-4110	4-4410	0.318	7.0	-3.5	-1.62	1.195	78.0	0.482	1.818	37.6	160.4	---	---	-6.13	0.482	106.5	158.1	-13.3	0.215
4-4110	4-4430	0.314	5.5	-1.6	-0.99	1.190	78.0	0.471	1.781	38.2	165.6	---	---	-6.48	0.472	102.1	155.4	-15.5	0.195
4-4110	4-4450	0.310	4.4	0.7	-0.29	1.187	78.1	0.464	1.757	38.3	170.4	---	---	-6.94	0.467	98.1	152.2	-18.0	0.181
4-4110	4-4470	0.306	3.3	3.7	0.54	1.185	78.3	0.458	1.741	38.1	174.8	---	---	-7.52	0.465	94.4	148.7	-20.7	0.171
4-4110	4-4490	0.303	2.2	7.4	1.53	1.184	78.5	0.454	1.732	37.5	178.9	---	---	-8.27	0.466	90.9	145.0	-23.6	0.167
4-4110	4-4510	0.301	0.9	12.1	2.77	1.183	78.8	0.451	1.728	36.6	182.7	---	2.507	-9.26	0.469	87.8	141.5	-26.6	0.188
4-4110	4-4530	0.302	359.0	18.2	4.36	1.183	79.2	0.448	1.728	35.4	186.3	---	2.503	-10.63	0.474	84.9	138.6	-30.0	0.174
4-4110	4-4550	0.310	355.8	26.0	6.55	1.183	79.7	0.447	1.731	34.0	189.7	---	2.504	-12.59	0.480	82.3	136.5	-33.7	0.187
4-4110	4-4570	0.334	349.8	35.9	9.79	1.184	80.2	0.445	1.736	32.4	192.9	---	2.509	-15.59	0.487	80.0	135.5	-38.1	0.209
4-4110	4-4590	0.393	337.6	47.1	15.11	1.185	80.7	0.445	1.742	30.7	196.0	---	2.518	-20.68	0.495	77.9	136.3	-43.3	0.249
4-4110	4-4610	0.544	311.2	55.3	25.43	1.186	81.1	0.445	1.751	29.1	199.0	---	2.529	-30.77	0.504	76.0	140.1	-48.4	0.335
4-4110	4-4630	0.959	274.0	47.8	50.61	1.187	81.4	0.446	1.760	28.2	202.0	---	2.545	-55.72	0.513	74.1	149.9	-47.9	0.550
4-4110	4-4670	0.789	69.9	-76.1	-40.73	1.190	84.5	0.441	1.781	18.0	206.8	---	2.565	36.10	0.533	71.9	149.4	48.8	0.397
4-4110	4-4690	0.554	58.7	-62.5	-26.92	1.192	85.2	0.442	1.792	15.8	209.4	---	2.585	22.54	0.543	70.6	145.0	42.0	0.293
4-4110	4-4710	0.443	56.7	-53.0	-20.32	1.193	86.0	0.444	1.804	13.1	211.8	---	2.605	16.19	0.553	69.4	144.6	34.3	0.256
4-4110	4-4730	0.380	57.5	-45.7	-16.50	1.195	86.9	0.446	1.816	9.9	214.1	---	2.626	12.63	0.563	68.4	146.0	28.0	0.243
4-4110	4-4750	0.340	59.8	-39.5	-13.98	1.196	88.0	0.448	1.829	6.6	216.4	---	2.648	10.39	0.573	67.4	148.5	23.2	0.242
4-4120	4-4240	0.589	36.2	-0.6	-5.66	1.493	77.4	1.239	-4.041	22.7	97.2	---	---	-6.12	1.015	145.5	159.0	-4.3	0.820
4-4120	4-4260	0.508	30.5	-2.4	-5.16	1.397	76.8	0.970	31.465	26.9	105.9	---	---	-6.01	0.865	141.8	159.9	-4.8	0.671
4-4120	4-4280	0.459	25.1	-3.8	-4.68	1.331	76.1	0.802	4.757	31.3	114.9	---	---	-5.94	0.754	137.7	160.6	-5.4	0.558
4-4120	4-4300	0.429	20.2	-4.7	-4.20	1.286	75.5	0.694	3.043	35.7	123.8	---	---	-5.90	0.670	133.2	161.0	-6.1	0.469
4-4120	4-4320	0.411	16.1	-5.1	-3.73	1.254	75.0	0.623	2.442	39.6	132.3	---	---	-5.91	0.607	128.5	161.1	-7.0	0.399
4-4120	4-4340	0.399	12.8	-5.1	-3.26	1.232	74.6	0.576	2.147	42.9	140.1	---	---	-5.95	0.559	123.5	160.8	-8.1	0.342
4-4120	4-4360	0.390	10.3	-4.7	-2.78	1.216	74.3	0.544	1.980	45.4	147.2	---	---	-6.03	0.523	118.5	160.0	-9.4	0.297
4-4120	4-4380	0.384	8.3	-3.9	-2.28	1.204	74.2	0.522	1.877	47.3	153.7	---	---	-6.15	0.497	113.5	158.6	-10.8	0.260
4-4120	4-4400	0.378	6.8	-2.9	-1.75	1.196	74.1	0.506	1.810	48.6	159.5	---	---	-6.32	0.478	108.7	156.6	-12.5	0.231
4-4120	4-4420	0.373	5.7	-1.5	-1.19	1.190	74.2	0.495	1.767	49.2	164.7	---	---	-6.54	0.466	104.0	154.0	-14.3	0.208
4-4120	4-4440	0.367	4.8	0.1	-0.58	1.187	74.3	0.486	1.740	49.4	169.5	---	---	-6.82	0.459	99.7	150.9	-16.3	0.191
4-4120	4-4460	0.362	4.2	2.1	0.10	1.184	74.6	0.480	1.722	49.1	173.8	---	---	-7.19	0.456	95.6	147.5	-18.4	0.180
4-4120	4-4480	0.357	3.6	4.6	0.86	1.183	74.9	0.475	1.713	48.5	177.9	---	---	-7.65	0.456	91.9	143.9	-20.5	0.173
4-4120	4-4500	0.351	3.1	7.5	1.74	1.182	75.2	0.471	1.708	47.5	181.6	---	2.513	-8.23	0.459	88.6	140.5	-22.7	0.170
4-4120	4-4520	0.347	2.4	11.1	2.78	1.182	75.7	0.468	1.708	46.3	185.1	---	2.507	-8.99	0.464	85.5	137.6	-24.9	0.172
4-4120	4-4540	0.344	1.4	15.5	4.07	1.183	76.2	0.465	1.711	44.8	188.5	---	2.507	-9.99	0.470	82.8	135.3	-27.2	0.177
4-4120	4-4560	0.345	359.8	21.1	5.70	1.183	76.7	0.463	1.717	43.1	191.6	---	2.511	-11.35	0.478	80.3	133.9	-29.8	0.187
4-4120	4-4580	0.352	356.9	28.0	7.89	1.184	77.3	0.461	1.724	41.3	194.6	---	2.518	-13.27	0.486	78.1	133.5	-32.8	0.201
4-4120	4-4600	0.374	351.7	36.6	11.03	1.186	77.9	0.459	1.733	39.3	197.5	---	2.529	-16.13	0.495	76.2	134.1	-36.6	0.224
4-4120	4-4620	0.426	341.1	46.2	15.96	1.187	78.5	0.458	1.743	37.2	200.3	---	2.541	-20.79	0.505	74.4	136.4	-41.2	0.262
4-4120	4-4640	0.549	319.6	53.8	24.82	1.189	79.1	0.458	1.754	35.2	203.1	---	2.557	-29.38	0.515	72.8	141.4	-46.2	0.334
4-4120	4-4660	0.859	287.4	50.2	44.07	1.190	79.6	0.459	1.765	33.6	205.7	---	2.575	-48.35	0.525	71.2	151.6	-48.1	0.499
4-4120	4-4700	0.955	59.2	-82.2	-50.35	1.193	83.2	0.449	1.790	22.1	210.2	---	2.595	46.62	0.546	69.7	158.7	48.3	0.498

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4120	4-4720	0.637	57.3	-65.6	-31.49	1.195	83.8	0.451	1.803	20.0	212.7	---	2.617	28.05	0.556	68.6	152.1	44.1	0.350
4-4120	4-4740	0.490	57.0	-54.7	-22.75	1.197	84.7	0.452	1.817	17.1	215.0	---	2.639	19.61	0.566	67.6	150.8	36.7	0.294
4-4120	4-4760	0.408	58.4	-46.4	-17.87	1.199	85.7	0.454	1.830	13.8	217.2	---	2.661	15.03	0.576	66.8	152.1	30.2	0.273
4-4130	4-4250	0.631	29.7	-1.2	-5.71	1.453	71.0	1.112	-8.040	36.1	103.2	---	---	-7.05	0.952	145.4	158.5	-4.9	0.772
4-4130	4-4270	0.562	24.5	-2.5	-5.12	1.366	70.7	0.891	8.179	41.1	112.7	---	---	-6.84	0.811	141.4	159.1	-5.5	0.632
4-4130	4-4290	0.520	19.9	-3.3	-4.56	1.307	70.4	0.756	3.583	46.0	122.2	---	---	-6.69	0.707	137.0	159.4	-6.1	0.525
4-4130	4-4310	0.494	16.1	-3.7	-4.02	1.267	70.1	0.671	2.613	50.4	131.1	---	---	-6.58	0.629	132.1	159.4	-6.9	0.442
4-4130	4-4330	0.477	13.1	-3.7	-3.50	1.239	69.9	0.616	2.209	54.0	139.3	---	---	-6.51	0.570	127.0	158.9	-7.9	0.377
4-4130	4-4350	0.466	10.9	-3.3	-2.98	1.219	69.8	0.580	1.997	56.8	146.6	---	---	-6.49	0.527	121.7	158.0	-9.0	0.325
4-4130	4-4370	0.456	9.2	-2.7	-2.46	1.206	69.7	0.555	1.872	58.8	153.2	---	---	-6.51	0.495	116.4	156.6	-10.2	0.283
4-4130	4-4390	0.449	7.9	-1.9	-1.94	1.196	69.8	0.538	1.795	60.1	159.0	---	---	-6.57	0.473	111.2	154.5	-11.6	0.250
4-4130	4-4410	0.442	7.0	-0.8	-1.40	1.190	70.0	0.525	1.746	60.7	164.2	---	---	-6.68	0.458	106.1	152.0	-13.2	0.224
4-4130	4-4430	0.434	6.4	0.5	-0.83	1.185	70.2	0.516	1.715	60.8	168.9	---	---	-6.83	0.449	101.4	148.9	-14.8	0.205
4-4130	4-4450	0.427	6.0	2.0	-0.23	1.183	70.5	0.508	1.697	60.5	173.2	---	---	-7.04	0.445	96.9	145.6	-16.4	0.191
4-4130	4-4470	0.420	5.8	3.7	0.42	1.181	70.9	0.502	1.686	59.8	177.1	---	---	-7.31	0.444	92.9	142.1	-18.0	0.183
4-4130	4-4490	0.413	5.6	5.7	1.13	1.180	71.3	0.497	1.682	58.7	180.8	---	2.518	-7.67	0.447	89.3	138.9	-19.6	0.178
4-4130	4-4510	0.406	5.4	8.1	1.92	1.180	71.8	0.493	1.682	57.4	184.2	---	2.512	-8.12	0.452	86.0	136.1	-21.1	0.177
4-4130	4-4530	0.399	5.2	11.0	2.83	1.181	72.4	0.489	1.686	55.8	187.4	---	2.511	-8.69	0.458	83.0	133.8	-22.5	0.179
4-4130	4-4550	0.393	4.8	14.4	3.91	1.182	73.0	0.486	1.692	54.0	190.4	---	2.514	-9.44	0.466	80.4	132.3	-24.1	0.184
4-4130	4-4570	0.389	4.1	18.5	5.20	1.183	73.6	0.483	1.701	52.1	193.4	---	2.521	-10.42	0.475	78.1	131.6	-25.9	0.192
4-4130	4-4590	0.388	2.7	23.6	6.84	1.185	74.3	0.480	1.710	50.0	196.2	---	2.531	-11.73	0.484	76.1	131.7	-28.1	0.203
4-4130	4-4610	0.393	0.3	29.9	8.99	1.186	75.0	0.477	1.721	47.7	198.9	---	2.543	-13.57	0.494	74.2	132.7	-30.8	0.218
4-4130	4-4630	0.411	355.6	37.4	11.99	1.188	75.8	0.475	1.733	45.4	201.6	---	2.557	-16.27	0.505	72.6	134.6	-34.2	0.240
4-4130	4-4650	0.456	346.4	45.9	16.57	1.190	76.5	0.473	1.746	42.9	204.1	---	2.572	-20.54	0.516	71.2	137.9	-38.6	0.275
4-4130	4-4670	0.558	328.1	53.0	24.38	1.191	77.3	0.472	1.759	40.5	206.6	---	2.590	-28.04	0.526	69.9	143.5	-43.6	0.337
4-4130	4-4690	0.804	299.4	51.7	40.10	1.193	77.9	0.472	1.773	38.5	209.1	---	2.610	-43.46	0.537	68.7	153.9	-47.1	0.470
4-4130	4-4730	1.110	11.3	-84.2	-59.59	1.197	82.0	0.459	1.801	25.6	213.4	---	2.628	56.87	0.559	67.8	168.4	46.5	0.597
4-4130	4-4750	0.714	53.8	-67.3	-35.67	1.199	82.6	0.461	1.816	23.8	215.7	---	2.653	33.28	0.569	66.8	160.2	45.0	0.406
4-4130	4-4770	0.529	57.1	-55.0	-24.73	1.201	83.5	0.462	1.831	20.8	217.8	---	2.676	22.68	0.579	66.0	157.7	38.1	0.331
4-4140	4-4280	0.638	20.6	-1.9	-5.16	1.335	64.3	0.833	4.748	57.1	121.3	---	---	-7.67	0.754	141.4	157.4	-6.0	0.597
4-4140	4-4300	0.599	17.1	-2.2	-4.51	1.283	64.4	0.729	2.879	62.0	130.7	---	---	-7.41	0.656	136.5	157.2	-6.7	0.497
4-4140	4-4320	0.574	14.5	-2.1	-3.90	1.248	64.4	0.666	2.290	65.9	139.2	---	---	-7.21	0.584	131.2	156.6	-7.5	0.420
4-4140	4-4340	0.556	12.4	-1.8	-3.31	1.223	64.6	0.625	2.015	68.9	146.7	---	---	-7.06	0.531	125.6	155.6	-8.5	0.359
4-4140	4-4360	0.542	11.0	-1.3	-2.75	1.207	64.7	0.597	1.863	70.9	153.3	---	---	-6.96	0.492	119.9	154.0	-9.6	0.311
4-4140	4-4380	0.531	10.0	-0.6	-2.19	1.196	65.0	0.578	1.773	72.2	159.0	---	---	-6.91	0.464	114.2	152.0	-10.7	0.274
4-4140	4-4400	0.521	9.3	0.3	-1.64	1.188	65.3	0.564	1.718	72.7	164.1	---	---	-6.90	0.446	108.6	149.4	-12.0	0.245
4-4140	4-4420	0.511	8.9	1.4	-1.08	1.183	65.6	0.553	1.684	72.7	168.7	---	---	-6.94	0.435	103.3	146.4	-13.3	0.223
4-4140	4-4440	0.502	8.7	2.6	-0.51	1.180	66.0	0.544	1.664	72.2	172.8	---	---	-7.02	0.430	98.4	143.1	-14.5	0.207
4-4140	4-4460	0.493	8.6	3.9	0.08	1.178	66.5	0.537	1.653	71.3	178.6	---	---	-7.15	0.429	94.0	139.9	-15.7	0.196
4-4140	4-4480	0.483	8.7	5.5	0.70	1.178	67.1	0.531	1.649	70.1	180.1	---	2.524	-7.34	0.431	89.9	136.8	-16.8	0.190
4-4140	4-4500	0.474	8.8	7.2	1.37	1.178	67.7	0.525	1.650	68.7	183.3	---	2.517	-7.60	0.436	86.3	134.1	-17.9	0.187
4-4140	4-4520	0.464	8.9	9.2	2.10	1.179	68.3	0.520	1.655	67.0	186.4	---	2.516	-7.93	0.443	83.1	132.0	-18.9	0.188
4-4140	4-4540	0.455	9.0	11.6	2.91	1.180	69.0	0.515	1.662	65.1	189.4	---	2.518	-8.35	0.451	80.3	130.5	-19.9	0.190
4-4140	4-4560	0.446	9.0	14.3	3.83	1.181	69.7	0.511	1.672	63.1	192.2	---	2.526	-8.91	0.461	77.9	129.8	-21.0	0.195
4-4140	4-4580	0.438	8.8	17.5	4.91	1.183	70.5	0.507	1.683	60.9	194.9	---	2.536	-9.62	0.471	75.7	129.8	-22.2	0.202
4-4140	4-4600	0.432	8.3	21.4	6.19	1.185	71.3	0.503	1.695	58.5	197.5	---	2.547	-10.56	0.482	73.8	130.4	-23.8	0.210
4-4140	4-4620	0.429	7.3	26.0	7.80	1.187	72.1	0.499	1.708	56.0	200.1	---	2.560	-11.81	0.493	72.1	131.8	-25.7	0.222
4-4140	4-4640	0.432	5.1	31.7	9.88	1.189	72.9	0.495	1.722	53.4	202.6	---	2.575	-13.55	0.504	70.7	133.8	-28.2	0.236
4-4140	4-4660	0.446	1.1	38.5	12.73	1.191	73.8	0.492	1.737	50.7	205.0	---	2.591	-16.07	0.516	69.4	136.6	-31.4	0.256
4-4140	4-4680	0.483	353.0	46.2	16.98	1.193	74.7	0.489	1.752	48.0	207.4	---	2.609	-19.97	0.527	68.3	140.6	-35.6	0.288
4-4140	4-4700	0.569	337.1	53.0	23.97	1.195	75.5	0.487	1.767	45.3	209.7	---	2.628	-26.63	0.539	67.3	146.6	-40.7	0.342
4-4140	4-4720	0.770	310.6	53.3	37.36	1.197	76.3	0.486	1.782	42.9	212.0	---	2.649	-39.68	0.550	66.3	156.7	-45.3	0.453
4-4140	4-4780	0.781	49.6	-67.3	-39.21	1.203	81.4	0.471	1.830	27.1	218.3	---	2.692	37.94	0.582	65.1	168.6	45.1	0.459
4-4150	4-4290	0.730	18.9	-0.6	-5.30	1.305	57.6	0.801	3.390	74.4	131.1	---	---	-8.51	0.695	141.9	154.7	-6.4	0.569
4-4150	4-4310	0.691	16.5	-0.6	-4.53	1.259	58.1	0.726	2.420	78.7	139.9	---	---	-8.11	0.604	136.5	154.0	-7.1	0.475
4-4150	4-4330	0.664	14.7	-0.3	-3.82	1.229	58.5	0.680	2.043	81.7	147.4	---	---	-7.80	0.537	130.6	152.8	-7.9	0.403
4-4150	4-4350	0.643	13.5	0.2	-3.17	1.208	59.0	0.649	1.853	83.6	153.9	---	---	-7.55	0.488	124.4	151.2	-8.8	0.347
4-4150	4-4370	0.626	12.7	0.9	-2.54	1.194	59.4	0.627	1.746	84.7	159.5	---	---	-7.37	0.454	118.1	149.1	-9.7	0.304
4-4150	4-4390	0.612	12.2	1.7	-1.95	1.185	60.0	0.612	1.683	85.0	164.4	---	---	-7.23	0.432	111.9	146.5	-10.7	0.271
4-4150	4-4410	0.599	12.0	2.6	-1.37	1.179	60.5	0.599	1.645	84.8	168.7	---	---	-7.15	0.418	105.9	143.6	-11.7	0.246
4-4150	4-4430	0.586	11.9	3.6	-0.79	1.176	61.1	0.589	1.624	84.1	172.6	---	---	-7.11	0.411	100.3	140.5	-12.7	0.228
4-4150	4-4450	0.574	12.0	4.8	-0.21	1.174	61.7	0.580	1.613	83.1	176.2	---	---	-7.12	0.409	95.2	137.3	-13.6	0.215
4-4150	4-4470	0.562	12.2	6.0	0.37	1.174	62.4	0.572	1.610	81.7	179.5	---	---	-7.17	0.411	90.7	134.5	-14.4	0.207
4-4150	4-4490	0.550	12.5	7.4	0.98	1.174	63.1	0.565	1.612	80.1	182.6	---	2.522	-7.28	0.417	86.7	132.0	-15.1	0.202
4-4150	4-4510	0.538	12.9	9.0	1.61	1.175	63.9	0.558	1.617	78.3	185.5	---	2.520	-7.44	0.424	83.1	130.0	-15.7	0.201
4-4150	4-4530	0.526	13.2	10.7	2.29	1.176	64.6	0.552	1.626	76.3	188.3	---	2.523	-7.67	0.434	80.1	128.7	-16.4	0.202
4-4150	4-4550	0.514	13.6	12.7	3.02	1.178	65.5	0.545	1.637	74.1	191.0	---	2.530	-7.97	0.444	77.4	128.0	-17.0	0.205
4-4150	4-4570	0.502	13.9	14.9	3.83	1.180	66.3	0.540	1.649	71.8	193.6	---	2.540	-8.37	0.455	75.1	128.0	-17.8	0.209
4-4150	4-4590	0.491	14.1	17.5	4.74	1.182	67.2	0.534	1.663	69.4	196.1	---	2.552	-8.88	0.467	73.1	128.6	-18.7	0.215
4-4150	4-4610	0.481	14.1	20.5	5.79	1.184	68.1	0.529	1.678	66.8	198.6	---	2.565	-9.55	0.479	71.3	129.7	-19.8	0.222
4-4150	4-4630	0.473	13.8	24.1	7.05	1.187	69.0	0.524	1.693	64.1	201.0	---	2.580	-10.43	0.491	69.8	131.4	-21.2	0.231
4-4150	4-4650	0.468	13.0	28.4	8.59	1.189	70.0	0.519	1.709	61.3	203.4	---	2.596	-11.60	0.503	68.6	133.7	-23.0	0.242
4-4150	4-4670	0.468	11.3	33.5	10.58	1.191	71.0	0.514	1.726	58.4	205.7	---	2.613	-13.22	0.516	67.5	136.5	-25.3	0.255
4-4150	4-4690	0.478	7.8	39.8	13.27	1.194	72.0	0.510	1.743	55.5	208.0	---	2.631	-15.56	0.528	66.5	140.0	-28.3	0.273
4-4150	4-4710	0.508	0.8	46.9	17.20	1.196	73.0	0.506	1.759	52.4	210.2	---	2.649	-19.12	0.540	65.7	144.4	-32.4	0.301
4-4150	4-4730	0.579	346.7	53.7	23.51	1.198	74.0	0.503	1.777	49.4	212.4	---	2.669	-25.08	0.552	64.9	150.5	-37.6	0.348
4-4150	4-4750	0.747	321.7	55.2	35.22	1.201	74.9	0.500	1.794	46.6	214.6	---	2.691	-36.43	0.563	64.2	160.3	-43.0	0.441
4-4160	4-4300	0.834	19.0	0.9	-5.56	1.277	50.5	0.799	2.678	92.2	141.3	---	---	-9.41	0.836	143.0	151.2	-6.5	0.551
4-4160	4-4320	0.791	17.4	1.3	-4.64	1.237	51.5	0.746	2.102	95.1	148.7	---	---	-8.84	0.550	136.9	149.9	-7.2	0.463
4-4160	4-4340	0.760	16.4	1.8	-3.81	1.210	52.3	0.712	1.851	96.8	154.9	---	---	-8.37	0.487	130.3	148.2	-7.9	0.396

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

DEPARTURE PLANET= EARTH
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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4420	4-4640	0.777	98.6	15.1	-6.44	1.245	128.1	0.765	2.394	268.2	499.9	0.562	---	-1.05	0.846	139.9	233.8	-0.7	0.594
4-4420	4-4660	0.715	98.4	14.2	-6.55	1.209	125.7	0.704	1.980	268.5	505.4	0.585	---	-0.98	0.580	133.6	235.1	-0.8	0.509
4-4420	4-4680	0.668	98.3	13.4	-6.65	1.183	123.7	0.658	1.763	268.6	511.0	0.604	---	-0.93	0.531	126.9	235.7	-0.9	0.439
4-4420	4-4700	0.633	98.2	12.7	-6.75	1.164	122.2	0.622	1.635	268.7	516.6	0.618	---	-0.89	0.495	119.9	235.4	-1.0	0.380
4-4420	4-4720	0.608	98.2	12.1	-6.84	1.151	121.1	0.596	1.554	268.7	522.1	0.628	---	-0.86	0.469	112.9	234.0	-1.1	0.332
4-4420	4-4740	0.591	98.3	11.6	-6.93	1.141	120.4	0.578	1.502	268.4	527.5	0.634	---	-0.84	0.453	106.0	231.4	-1.2	0.294
4-4420	4-4760	0.582	98.6	11.3	-7.01	1.134	120.1	0.567	1.468	267.9	532.8	0.635	---	-0.83	0.444	99.3	227.5	-1.4	0.266
4-4420	4-4780	0.581	99.0	11.2	-7.10	1.129	120.1	0.564	1.446	267.0	537.8	0.631	---	-0.82	0.440	92.9	222.4	-1.4	0.250
4-4420	4-4800	0.587	99.7	11.2	-7.18	1.127	120.5	0.566	1.432	265.7	542.4	0.622	2.243	-0.83	0.441	86.9	216.9	-1.5	0.244
4-4420	4-4820	0.600	100.6	11.4	-7.27	1.125	121.3	0.575	1.425	263.9	546.7	0.606	2.245	-0.84	0.445	81.1	211.9	-1.5	0.250
4-4420	4-4840	0.620	101.7	11.7	-7.37	1.125	122.5	0.589	1.423	261.6	550.5	0.585	2.262	-0.87	0.450	75.7	208.0	-1.4	0.266
4-4420	4-4860	0.648	103.2	12.1	-7.47	1.125	124.2	0.610	1.425	258.7	553.8	0.556	2.294	-0.91	0.458	70.4	205.8	-1.3	0.291
4-4420	4-4880	0.685	105.0	12.6	-7.59	1.126	126.4	0.637	1.430	255.0	556.5	0.519	2.340	-0.96	0.466	65.1	205.3	-1.3	0.323
4-4420	4-4900	0.732	107.2	13.2	-7.72	1.128	129.1	0.670	1.437	250.7	558.5	0.474	2.401	-1.04	0.474	59.7	206.3	-1.2	0.363
4-4420	4-4920	0.789	109.7	13.8	-7.88	1.130	132.5	0.710	1.447	245.5	559.7	0.419	2.475	-1.15	0.483	54.1	208.8	-1.1	0.410
4-4420	4-4940	0.859	112.7	14.4	-8.09	1.132	136.6	0.756	1.459	239.3	560.0	0.355	2.562	-1.30	0.491	48.2	212.6	-1.0	0.464
4-4420	4-4960	0.942	116.2	14.9	-8.36	1.135	141.6	0.807	1.473	232.1	559.3	0.284	2.662	-1.52	0.500	41.7	217.5	-1.0	0.525
4-4420	4-4980	1.038	120.2	15.3	-8.75	1.138	147.5	0.861	1.489	223.9	557.6	0.207	2.772	-1.85	0.508	34.6	223.4	-0.9	0.593
4-4430	4-4650	0.746	105.9	12.4	-7.48	1.249	126.1	0.756	2.459	272.7	497.6	0.600	---	0.51	0.657	139.1	237.6	0.4	0.593
4-4430	4-4670	0.685	105.7	11.6	-7.42	1.214	123.7	0.692	2.022	273.0	503.3	0.623	---	0.47	0.592	132.9	239.1	0.4	0.508
4-4430	4-4690	0.637	105.4	10.9	-7.37	1.188	121.7	0.642	1.795	273.3	509.0	0.642	---	0.44	0.544	126.4	239.9	0.4	0.437
4-4430	4-4710	0.601	105.3	10.3	-7.32	1.169	120.2	0.605	1.662	273.5	514.7	0.657	---	0.41	0.508	119.7	239.8	0.5	0.378
4-4430	4-4730	0.574	105.2	9.8	-7.28	1.155	119.1	0.577	1.578	273.6	520.4	0.668	---	0.39	0.483	113.0	238.8	0.5	0.329
4-4430	4-4750	0.556	105.2	9.4	-7.24	1.145	118.3	0.557	1.523	273.4	526.0	0.675	---	0.38	0.467	106.4	236.5	0.6	0.290
4-4430	4-4770	0.546	105.4	9.3	-7.20	1.138	117.9	0.545	1.488	273.0	531.4	0.677	---	0.37	0.458	100.1	232.9	0.6	0.261
4-4430	4-4790	0.542	105.7	9.3	-7.16	1.133	117.8	0.539	1.464	272.3	536.5	0.674	---	0.36	0.454	94.1	228.0	0.7	0.242
4-4430	4-4810	0.546	106.3	9.4	-7.12	1.130	118.1	0.540	1.450	271.1	541.4	0.667	2.233	0.36	0.454	88.4	222.6	0.7	0.234
4-4430	4-4830	0.555	107.2	9.7	-7.08	1.129	118.8	0.546	1.442	269.5	545.9	0.654	2.230	0.36	0.457	83.0	217.4	0.7	0.237
4-4430	4-4850	0.572	108.3	10.2	-7.04	1.128	119.8	0.559	1.439	267.3	549.9	0.635	2.243	0.37	0.462	77.9	213.2	0.7	0.250
4-4430	4-4870	0.596	109.7	10.7	-7.00	1.128	121.2	0.576	1.440	264.6	553.5	0.610	2.271	0.38	0.469	73.0	210.5	0.6	0.271
4-4430	4-4890	0.628	111.4	11.4	-6.95	1.129	123.1	0.600	1.445	261.3	556.5	0.578	2.311	0.40	0.476	68.2	209.5	0.6	0.300
4-4430	4-4910	0.668	113.4	12.0	-6.90	1.131	125.5	0.630	1.451	257.3	558.8	0.537	2.365	0.42	0.483	63.3	210.1	0.5	0.335
4-4430	4-4930	0.718	115.9	12.7	-6.84	1.132	128.5	0.666	1.460	252.5	560.5	0.488	2.433	0.46	0.491	58.2	212.1	0.5	0.377
4-4430	4-4950	0.779	118.7	13.4	-6.77	1.135	132.1	0.708	1.471	246.8	561.3	0.429	2.513	0.50	0.498	52.9	215.4	0.5	0.426
4-4430	4-4970	0.852	122.0	13.9	-6.68	1.137	136.4	0.756	1.484	240.3	561.3	0.362	2.607	0.57	0.505	47.1	219.8	0.4	0.480
4-4430	4-4990	0.939	125.7	14.3	-6.56	1.140	141.6	0.809	1.500	232.7	560.2	0.287	2.712	0.67	0.512	40.8	225.2	0.4	0.542
4-4430	5-5010	1.038	129.9	14.5	-6.39	1.144	147.7	0.863	1.517	224.1	558.1	0.207	2.827	0.82	0.519	33.8	231.5	0.4	0.609
4-4440	4-4660	0.717	112.9	8.6	-8.92	1.253	124.1	0.746	2.513	277.3	495.4	0.637	---	2.48	0.666	138.2	241.3	1.9	0.590
4-4440	4-4680	0.655	112.6	8.0	-8.58	1.218	121.7	0.679	2.059	277.7	501.2	0.660	---	2.23	0.603	132.1	242.9	2.0	0.505
4-4440	4-4700	0.607	112.2	7.4	-8.30	1.192	119.7	0.628	1.824	278.1	507.0	0.679	---	2.03	0.555	125.8	243.8	2.1	0.435
4-4440	4-4720	0.570	112.0	7.0	-8.06	1.173	118.2	0.588	1.686	278.4	512.9	0.695	---	1.88	0.520	119.3	244.0	2.3	0.375
4-4440	4-4740	0.542	111.8	6.7	-7.84	1.159	117.0	0.559	1.600	278.6	518.8	0.706	---	1.77	0.496	112.9	243.2	2.5	0.326
4-4440	4-4760	0.523	111.7	6.6	-7.65	1.149	116.2	0.538	1.543	278.5	524.5	0.714	---	1.68	0.480	106.6	241.2	2.7	0.287
4-4440	4-4780	0.511	111.9	6.6	-7.47	1.142	115.8	0.524	1.506	278.2	530.1	0.717	---	1.61	0.471	100.6	237.8	2.9	0.257
4-4440	4-4800	0.506	112.2	6.8	-7.30	1.137	115.6	0.517	1.482	277.6	535.4	0.716	---	1.57	0.467	94.9	233.2	3.1	0.236
4-4440	4-4820	0.507	112.7	7.2	-7.13	1.134	115.8	0.516	1.467	276.6	540.4	0.710	2.224	1.54	0.466	89.6	227.9	3.2	0.226
4-4440	4-4840	0.515	113.5	7.7	-6.97	1.133	116.4	0.521	1.459	275.1	545.1	0.699	2.218	1.53	0.469	84.5	222.5	3.2	0.227
4-4440	4-4860	0.528	114.6	8.3	-6.80	1.132	117.3	0.531	1.455	273.1	549.3	0.683	2.228	1.54	0.473	79.8	218.1	3.0	0.237
4-4440	4-4880	0.548	116.0	9.0	-6.63	1.132	118.5	0.546	1.456	270.6	553.1	0.661	2.251	1.57	0.479	75.2	215.1	2.9	0.255
4-4440	4-4900	0.576	117.7	9.8	-6.44	1.133	120.2	0.567	1.459	267.4	556.3	0.632	2.287	1.62	0.485	70.8	213.7	2.6	0.280
4-4440	4-4920	0.611	119.7	10.6	-6.24	1.134	122.3	0.593	1.466	263.7	559.0	0.596	2.335	1.69	0.492	66.3	214.0	2.4	0.312
4-4440	4-4940	0.655	122.1	11.4	-6.02	1.136	124.8	0.626	1.474	259.2	561.0	0.552	2.396	1.80	0.498	61.7	215.6	2.3	0.350
4-4440	4-4960	0.708	124.8	12.1	-5.76	1.138	128.0	0.664	1.485	254.0	562.2	0.499	2.470	1.95	0.505	56.9	218.5	2.1	0.393
4-4440	4-4980	0.772	127.9	12.7	-5.45	1.140	131.8	0.708	1.497	248.0	562.7	0.437	2.557	2.16	0.511	51.7	222.5	2.0	0.442
4-4440	4-5000	0.849	131.4	13.2	-5.06	1.143	136.3	0.758	1.511	241.0	562.3	0.366	2.656	2.45	0.517	46.1	227.4	1.8	0.497
4-4440	4-5020	0.938	135.2	13.4	-4.54	1.146	141.7	0.811	1.527	233.2	560.9	0.288	2.766	2.87	0.523	39.9	233.2	1.7	0.558
4-4440	4-5040	1.039	139.5	13.4	-3.79	1.149	147.9	0.866	1.545	224.3	558.5	0.207	2.883	3.53	0.528	33.0	239.9	1.6	0.624
4-4450	4-4670	0.692	119.5	3.3	-11.00	1.256	122.0	0.736	2.554	282.0	493.3	0.674	---	5.12	0.674	137.3	244.7	4.0	0.586
4-4450	4-4690	0.628	119.0	3.0	-10.19	1.221	119.6	0.666	2.088	282.5	499.3	0.697	---	4.45	0.611	131.3	246.4	4.1	0.502
4-4450	4-4710	0.579	118.6	2.9	-9.55	1.195	117.7	0.612	1.848	283.0	505.3	0.716	---	3.96	0.565	125.1	247.6	4.2	0.432
4-4450	4-4730	0.541	118.2	2.7	-9.03	1.177	116.1	0.572	1.707	283.4	511.3	0.732	---	3.59	0.531	118.8	247.9	4.5	0.372
4-4450	4-4750	0.513	118.0	2.8	-8.58	1.163	115.0	0.541	1.619	283.7	517.3	0.743	---	3.31	0.507	112.6	247.3	4.8	0.323
4-4450	4-4770	0.492	117.9	2.9	-8.19	1.153	114.2	0.519	1.561	283.8	523.2	0.751	---	3.09	0.492	106.6	245.5	5.1	0.283
4-4450	4-4790	0.479	117.9	3.2	-7.84	1.146	113.7	0.505	1.523	283.6	528.9	0.755	---	2.93	0.482	100.9	242.4	5.5	0.253
4-4450	4-4810	0.472	118.2	3.7	-7.52	1.141	113.5	0.497	1.499	283.0	534.4	0.754	---	2.81	0.478	95.5	238.0	5.8	0.231
4-4450	4-4830	0.471	118.8	4.4	-7.21	1.138	113.7	0.494	1.483	282.1	539.5	0.750	---	2.73	0.478	90.4	232.7	5.9	0.220
4-4450	4-4850	0.476	119.6	5.2	-6.92	1.137	114.1	0.498	1.474	280.7	544.3	0.741	2.208	2.68	0.480	85.7	227.4	5.9	0.219
4-4450	4-4870	0.487	120.7	6.0	-6.62	1.136	114.9	0.506	1.471	278.9	548.7	0.727	2.215	2.66	0.484	81.3	222.8	5.6	0.226
4-4450	4-4890	0.504	122.1	7.0	-6.33	1.136	116.0	0.519	1.471	276.5	552.7	0.707	2.235	2.68	0.489	77.0	219.5	5.3	0.242
4-4450	4-4910	0.528	123.8	8.0	-6.02	1.137	117.4	0.537	1.474	273.5	556.1	0.682	2.267	2.73	0.494	72.9	217.9	4.9	0.265
4-4450	4-4930	0.559	125.8	8.9	-5.70	1.138	119.3	0.561	1.480	269.9	559.0	0.650	2.311	2.82	0.500	68.8	217.8	4.5	0.293
4-4450	4-4950	0.597	128.2	9.8	-5.35	1.139	121.6	0.590	1.488	265.8	561.2	0.611	2.366	2.95	0.506	64.6	219.2	4.1	0.327
4-4450	4-4970	0.644	130.9	10.6	-4.95	1.141	124.4	0.624	1.498	260.9	562.9	0.563	2.433	3.14	0.512	60.3	221.8	3.8	0.366
4-4450	4-4990	0.701	133.8	11.3	-4.50	1.144	127.7	0.664	1.510	255.3	563.8	0.507	2.513	3.40	0.517	55.7	225.4	3.6	0.409
4-4450	5-5010	0.768	137.2	11.8	-3.95	1.146	131.7	0.710	1.523	248.9	563.9	0.442	2.605	3.77	0.522	50.7	230.0	3.3	0.458
4-4450	4-5030	0.847	140.8	12.1	-3.27	1.149	136.3	0.760	1.539	241.7	563.2	0.369	2.708	4.28	0.527	45.2	235.3	3.1	0.513
4-4450	5-5050	0.939	144.8	12.1	-2.36	1.152	141.7	0.814	1.556	233.6	561.5	0.289	2.822	5.02	0.531	39.1	241.5	2.9	0.573
4-4450	5-5070	1.042	149.2	11.9	-1.07	1.155	148.0	0.868	1.574	224.6	558.9	0.207	2.942	6.16	0.535	32.4	248.4	2.8	0.637
4-4460	4-4680	0.677	125.6	-4.6	-14.22	1.259	119.9	0.724	2.580	286.8	491.5	0.711	---	8.95	0.679	136.2	247.9	7.2	0.584
4-4460	4-4700	0.609	124.9	-3.8	-12.53	1.224	117.5	0.652	2.110	287.4	497.5	0.733	---	7.44	0.618	130.3	249.7	7.0	0.499

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4460	4-4720	0.556	124.4	-3.3	-11.29	1.199	115.6	0.597	1.867	288.0	503.7	0.752	---	6.40	0.573	124.3	251.0	7.1	0.429
4-4460	4-4740	0.516	123.9	-2.8	-10.33	1.180	114.1	0.555	1.725	288.6	509.9	0.767	---	5.65	0.540	118.2	251.5	7.3	0.370
4-4460	4-4760	0.486	123.6	-2.3	-9.56	1.167	112.9	0.524	1.636	289.0	516.0	0.779	---	5.09	0.517	112.2	251.0	7.6	0.320
4-4460	4-4780	0.464	123.4	-1.6	-8.91	1.157	112.1	0.501	1.577	289.2	522.1	0.787	---	4.67	0.502	106.4	249.4	8.0	0.281
4-4460	4-4800	0.449	123.5	-0.9	-8.34	1.150	111.6	0.486	1.539	289.1	527.9	0.791	---	4.35	0.493	101.0	246.5	8.5	0.250
4-4460	4-4820	0.440	123.8	0.0	-7.83	1.146	111.4	0.478	1.514	288.6	533.5	0.791	---	4.12	0.489	95.8	242.3	8.8	0.228
4-4460	4-4840	0.437	124.4	1.0	-7.37	1.142	111.5	0.475	1.498	287.8	538.8	0.787	---	3.94	0.488	91.1	237.1	9.0	0.215
4-4460	4-4860	0.441	125.2	2.2	-6.93	1.141	111.9	0.477	1.489	286.5	543.7	0.780	2.199	3.82	0.490	86.6	231.8	8.8	0.212
4-4460	4-4880	0.449	126.4	3.4	-6.51	1.140	112.6	0.483	1.486	284.7	548.2	0.767	2.204	3.75	0.493	82.4	227.1	8.4	0.218
4-4460	4-4900	0.464	127.9	4.6	-6.09	1.140	113.6	0.495	1.486	282.4	552.3	0.750	2.221	3.73	0.498	78.5	223.7	7.9	0.232
4-4460	4-4920	0.484	129.7	5.8	-5.68	1.141	114.9	0.511	1.489	279.6	555.9	0.728	2.250	3.75	0.503	74.6	221.9	7.2	0.252
4-4460	4-4940	0.511	131.8	7.0	-5.24	1.142	116.6	0.532	1.495	276.2	558.9	0.700	2.290	3.82	0.508	70.9	221.6	6.6	0.278
4-4460	4-4960	0.545	134.2	8.1	-4.79	1.143	118.6	0.558	1.503	272.2	561.4	0.685	2.341	3.95	0.513	67.1	222.8	6.1	0.308
4-4460	4-4980	0.587	136.9	9.0	-4.29	1.145	121.1	0.588	1.513	267.6	563.3	0.623	2.402	4.14	0.518	63.1	225.1	5.6	0.343
4-4460	4-5000	0.637	139.9	9.8	-3.74	1.147	124.0	0.625	1.524	262.3	564.5	0.572	2.476	4.40	0.523	59.0	228.5	5.2	0.382
4-4460	4-5020	0.697	143.1	10.3	-3.10	1.150	127.5	0.666	1.537	256.4	565.1	0.513	2.560	4.77	0.527	54.6	232.7	4.8	0.426
4-4460	4-5040	0.767	146.6	10.6	-2.33	1.152	131.6	0.713	1.551	249.7	564.9	0.446	2.656	5.29	0.530	49.7	237.7	4.5	0.474
4-4460	4-5060	0.848	150.4	10.7	-1.38	1.155	136.3	0.763	1.567	242.3	563.8	0.371	2.763	6.00	0.534	44.4	243.4	4.2	0.527
4-4460	4-5080	0.940	154.4	10.5	-0.12	1.158	141.8	0.817	1.585	234.0	562.0	0.290	2.879	7.03	0.537	38.5	249.9	4.0	0.585
4-4460	4-5100	1.044	158.7	10.0	1.66	1.162	148.0	0.870	1.604	225.0	559.2	0.209	3.000	8.59	0.540	32.0	256.9	3.8	0.647
4-4470	4-4690	0.691	131.3	-16.6	-19.84	1.261	117.7	0.712	2.589	291.6	489.8	0.746	---	15.18	0.683	135.1	250.2	12.4	0.587
4-4470	4-4710	0.605	130.3	-13.7	-16.22	1.227	115.4	0.638	2.122	292.4	496.0	0.768	---	11.80	0.623	129.3	252.5	11.4	0.499
4-4470	4-4730	0.543	129.5	-11.6	-13.85	1.202	113.5	0.582	1.880	293.2	502.3	0.787	---	9.68	0.579	123.4	254.0	11.0	0.427
4-4470	4-4750	0.497	128.9	-10.1	-12.17	1.184	112.0	0.539	1.739	293.9	508.7	0.801	---	8.24	0.547	117.4	254.7	10.9	0.368
4-4470	4-4770	0.463	128.5	-8.7	-10.89	1.170	110.9	0.507	1.649	294.5	515.0	0.813	---	7.23	0.525	111.6	254.4	11.1	0.319
4-4470	4-4790	0.438	128.3	-7.3	-9.86	1.161	110.1	0.485	1.591	294.8	521.2	0.820	---	6.48	0.511	106.1	252.9	11.5	0.278
4-4470	4-4810	0.421	128.4	-5.9	-9.01	1.154	109.6	0.469	1.553	294.8	527.2	0.825	---	5.92	0.502	100.9	250.1	11.9	0.247
4-4470	4-4830	0.411	128.8	-4.4	-8.27	1.150	109.4	0.460	1.528	294.5	532.9	0.825	---	5.50	0.498	96.0	246.0	12.2	0.225
4-4470	4-4850	0.406	129.4	-2.9	-7.61	1.147	109.5	0.456	1.512	293.7	538.3	0.822	---	5.19	0.497	91.5	241.0	12.3	0.212
4-4470	4-4870	0.407	130.4	-1.3	-7.01	1.145	109.8	0.458	1.504	292.4	543.3	0.816	2.192	4.96	0.499	87.3	235.7	12.0	0.208
4-4470	4-4890	0.414	131.7	0.3	-6.45	1.144	110.4	0.463	1.500	290.7	547.8	0.805	2.195	4.81	0.502	83.3	231.0	11.3	0.212
4-4470	4-4910	0.426	133.4	1.9	-5.92	1.144	111.3	0.473	1.500	288.5	552.0	0.790	2.210	4.72	0.506	79.6	227.6	10.5	0.224
4-4470	4-4930	0.443	135.3	3.4	-5.39	1.145	112.5	0.488	1.504	285.7	555.6	0.770	2.237	4.69	0.510	76.1	225.7	9.6	0.242
4-4470	4-4950	0.467	137.6	4.9	-4.86	1.146	114.0	0.506	1.509	282.4	558.8	0.745	2.274	4.72	0.515	72.6	225.3	8.8	0.265
4-4470	4-4970	0.497	140.1	6.1	-4.31	1.148	115.9	0.529	1.517	278.6	561.5	0.714	2.320	4.81	0.520	69.1	226.3	8.0	0.293
4-4470	4-4990	0.534	142.9	7.2	-3.73	1.149	118.1	0.557	1.527	274.2	563.6	0.677	2.377	4.97	0.524	65.6	228.4	7.3	0.324
4-4470	4-5010	0.579	145.8	8.1	-3.10	1.152	120.7	0.589	1.538	269.2	565.1	0.632	2.444	5.21	0.528	61.8	231.6	6.8	0.359
4-4470	4-5030	0.632	149.0	8.7	-2.41	1.154	123.8	0.627	1.551	263.6	566.0	0.579	2.522	5.55	0.531	57.9	235.6	6.3	0.398
4-4470	4-5050	0.695	152.4	9.1	-1.61	1.156	127.4	0.669	1.564	257.4	566.2	0.518	2.611	6.02	0.534	53.6	240.3	5.9	0.441
4-4470	4-5070	0.767	156.1	9.2	-0.65	1.159	131.5	0.716	1.580	250.5	565.7	0.449	2.710	6.65	0.537	48.9	245.7	5.5	0.488
4-4470	4-5090	0.849	159.9	9.0	0.53	1.162	136.3	0.766	1.597	242.9	564.4	0.373	2.820	7.54	0.539	43.7	251.7	5.2	0.539
4-4470	4-5110	0.942	163.9	8.6	2.07	1.165	141.8	0.819	1.615	234.6	562.4	0.293	2.937	8.80	0.541	38.0	258.2	4.9	0.595
4-4480	4-4700	0.797	138.9	-35.6	-31.51	1.262	115.5	0.698	2.580	296.4	488.4	0.779	---	27.51	0.885	134.0	249.8	21.5	0.620
4-4480	4-4720	0.644	135.5	-28.1	-22.76	1.229	113.2	0.623	2.125	297.6	494.7	0.802	---	19.03	0.827	128.2	253.9	18.3	0.512
4-4480	4-4740	0.553	133.9	-23.2	-17.95	1.204	111.3	0.566	1.888	298.6	501.2	0.820	---	14.50	0.584	122.4	256.2	16.6	0.433
4-4480	4-4760	0.492	133.1	-19.7	-14.90	1.187	109.9	0.523	1.748	299.5	507.8	0.834	---	11.74	0.553	116.6	257.3	15.8	0.370
4-4480	4-4780	0.450	132.6	-16.8	-12.76	1.174	108.8	0.491	1.660	300.2	514.2	0.845	---	9.91	0.532	111.0	257.2	15.6	0.319
4-4480	4-4800	0.419	132.4	-14.3	-11.17	1.165	108.0	0.468	1.603	300.7	520.5	0.852	---	8.63	0.518	105.6	255.9	15.6	0.278
4-4480	4-4820	0.398	132.5	-12.0	-9.90	1.158	107.5	0.453	1.565	300.8	526.6	0.856	---	7.70	0.510	100.6	253.2	15.8	0.247
4-4480	4-4840	0.384	133.0	-9.7	-8.86	1.154	107.3	0.444	1.541	300.5	532.5	0.857	---	7.02	0.506	95.9	249.3	16.0	0.224
4-4480	4-4860	0.377	133.8	-7.4	-7.96	1.151	107.4	0.440	1.525	299.8	537.9	0.855	---	6.50	0.506	91.7	244.4	15.8	0.210
4-4480	4-4880	0.376	135.0	-5.2	-7.18	1.149	107.7	0.440	1.517	298.6	543.0	0.849	2.185	6.12	0.507	87.7	239.2	15.3	0.205
4-4480	4-4900	0.380	136.5	-3.1	-6.46	1.149	108.3	0.445	1.514	298.9	547.6	0.839	2.188	5.85	0.510	84.0	234.6	14.4	0.208
4-4480	4-4920	0.390	138.4	-1.0	-5.79	1.149	109.1	0.454	1.514	294.7	551.8	0.826	2.202	5.66	0.513	80.5	231.1	13.2	0.219
4-4480	4-4940	0.405	140.6	0.9	-5.15	1.150	110.3	0.467	1.518	291.9	555.5	0.809	2.227	5.56	0.518	77.2	229.2	12.0	0.235
4-4480	4-4960	0.426	143.1	2.6	-4.52	1.151	111.6	0.484	1.524	288.7	558.7	0.786	2.261	5.52	0.522	74.0	228.8	10.9	0.256
4-4480	4-4980	0.453	145.8	4.1	-3.89	1.152	113.3	0.504	1.531	285.0	561.5	0.759	2.304	5.56	0.526	70.8	229.7	9.9	0.280
4-4480	4-5000	0.487	148.7	5.3	-3.24	1.154	115.3	0.529	1.541	280.7	563.7	0.726	2.357	5.67	0.530	67.6	231.7	9.0	0.309
4-4480	4-5020	0.527	151.7	6.3	-2.56	1.156	117.7	0.558	1.552	276.0	565.4	0.686	2.419	5.88	0.533	64.2	234.7	8.3	0.340
4-4480	4-5040	0.574	155.0	7.0	-1.83	1.158	120.4	0.592	1.565	270.7	566.6	0.639	2.490	6.14	0.536	60.7	238.5	7.7	0.375
4-4480	4-5060	0.630	158.4	7.4	-1.02	1.161	123.6	0.630	1.578	264.8	567.1	0.584	2.572	6.54	0.538	56.8	243.0	7.1	0.413
4-4480	4-5080	0.694	161.9	7.6	-0.08	1.163	127.3	0.672	1.593	258.4	567.1	0.522	2.664	7.08	0.540	52.7	248.1	6.7	0.455
4-4480	4-5100	0.768	165.5	7.4	1.02	1.166	131.5	0.719	1.609	251.4	566.3	0.453	2.766	7.82	0.541	48.1	253.8	6.3	0.500
4-4480	4-5120	0.851	169.3	7.0	2.38	1.169	136.2	0.768	1.627	243.7	564.9	0.377	2.877	8.83	0.543	43.1	259.9	6.0	0.549
4-4480	4-5140	0.944	173.3	6.4	4.13	1.172	141.6	0.819	1.646	235.5	562.7	0.297	2.994	10.25	0.544	37.6	266.6	5.6	0.601
4-4490	4-4730	0.811	144.1	-48.9	-36.68	1.230	111.1	0.607	2.117	302.6	493.8	0.832	---	33.66	0.629	127.1	251.0	29.0	0.573
4-4490	4-4750	0.620	138.3	-39.3	-25.33	1.206	109.2	0.550	1.888	304.1	500.4	0.851	---	22.62	0.588	121.3	256.5	24.9	0.458
4-4490	4-4770	0.517	136.3	-32.5	-19.30	1.189	107.7	0.507	1.753	305.3	507.1	0.865	---	16.92	0.558	115.6	258.7	22.5	0.382
4-4490	4-4790	0.452	135.5	-27.4	-15.57	1.177	106.7	0.475	1.667	306.2	513.7	0.875	---	13.53	0.538	110.1	259.2	21.3	0.325
4-4490	4-4810	0.410	135.3	-23.1	-13.02	1.168	105.9	0.453	1.612	306.8	520.2	0.882	---	11.33	0.525	105.0	258.2	20.7	0.282
4-4490	4-4830	0.381	135.6	-19.4	-11.14	1.162	105.5	0.438	1.575	307.0	526.4	0.885	---	9.81	0.517	100.2	255.7	20.4	0.248
4-4490	4-4850	0.362	136.2	-16.0	-9.66	1.158	105.3	0.429	1.552	306.8	532.3	0.886	---	8.72	0.514	95.7	251.9	20.2	0.225
4-4490	4-4870	0.351	137.3	-12.8	-8.46	1.155	105.4	0.425	1.537	306.1	537.8	0.884	---	7.92	0.513	91.7	247.2	19.6	0.210
4-4490	4-4890	0.347	138.8	-9.7	-7.43	1.154	105.7	0.425	1.529	304.9	542.8	0.879	2.179	7.32	0.514	87.9	242.1	18.7	0.204
4-4490	4-4910	0.349	140.7	-6.9	-6.53	1.153	106.2	0.430	1.526	303.2	547.5	0.871	2.182	8.89	0.517	84.4	237.7	17.4	0.206
4-4490	4-4930	0.357	142.9	-4.3	-5.71	1.153	107.0	0.438	1.527	301.0	551.7	0.859	2.196	6.57	0.520	81.2	234.3	15.9	0.215
4-4490	4-4950	0.370	145.4	-1.9	-4.95	1.154	108.1	0.449	1.531	298.3	555.4	0.843	2.219	6.36	0.524	78.1	232.5	14.3	0.229
4-4490	4-4970	0.388	148.2	0.2	-4.23	1.155	109.4	0.464	1.537	295.1	558.7	0.824	2.251	6.24	0.528	75.1	232.1	12.9	0.248
4-4490	4-4990	0.413	151.2	1.9	-3.52	1.157	110.9	0.483	1.546	291.4	561.5	0.799	2.292	6.20	0.531	72.2	233.0	11.7	0.271
4-4490	5-5010	0.443	154.3	3.4	-2.81	1.159	112.7	0.505	1.555	287.3	563.8	0.770	2.341	6.24	0.535	69.2	235.0	10.6	0.296

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4490	4-5030	0.479	157.5	4.5	-2.09	1.161	114.9	0.531	1.567	282.7	565.7	0.735	2.398	6.37	0.537	66.2	237.9	9.7	0.324
4-4490	4-5050	0.522	160.9	5.2	-1.33	1.163	117.4	0.561	1.579	277.6	567.0	0.693	2.465	6.58	0.540	63.0	241.5	8.9	0.355
4-4490	4-5070	0.572	164.3	5.7	-0.51	1.165	120.2	0.595	1.593	272.0	567.8	0.645	2.540	6.89	0.542	59.6	245.8	8.3	0.389
4-4490	4-5090	0.629	167.8	5.9	0.39	1.167	123.5	0.633	1.607	266.0	568.1	0.589	2.625	7.33	0.543	55.9	250.7	7.7	0.426
4-4490	4-5110	0.695	171.3	5.8	1.41	1.170	127.2	0.676	1.623	259.4	567.8	0.528	2.719	7.92	0.544	51.9	256.1	7.3	0.466
4-4490	4-5130	0.770	175.0	5.4	2.62	1.173	131.4	0.721	1.640	252.3	566.9	0.457	2.823	8.72	0.545	47.6	261.9	6.9	0.509
4-4490	4-5150	0.853	178.7	4.8	4.09	1.176	136.1	0.770	1.658	244.7	565.3	0.382	2.934	9.81	0.545	42.8	268.1	6.5	0.555
4-4500	4-4760	0.845	148.4	-60.8	-41.35	1.208	107.1	0.534	1.883	309.4	508.0	0.677	---	39.41	0.589	120.2	250.6	35.8	0.553
4-4500	4-4780	0.610	139.3	-49.4	-27.37	1.192	105.6	0.491	1.753	311.2	506.8	0.892	---	25.78	0.561	114.5	257.6	31.7	0.422
4-4500	4-4800	0.489	137.1	-40.9	-20.16	1.180	104.5	0.460	1.671	312.5	513.6	0.902	---	18.93	0.542	109.2	259.9	28.8	0.345
4-4500	4-4820	0.419	136.8	-34.1	-15.83	1.171	103.8	0.438	1.618	313.3	520.2	0.908	---	14.96	0.530	104.2	259.6	27.0	0.292
4-4500	4-4840	0.375	137.2	-28.5	-12.91	1.166	103.4	0.424	1.583	313.6	526.4	0.912	---	12.43	0.523	99.6	257.5	25.8	0.255
4-4500	4-4860	0.347	138.2	-23.5	-10.78	1.162	103.2	0.415	1.561	313.4	532.4	0.913	---	10.70	0.520	95.4	259.9	24.9	0.229
4-4500	4-4880	0.330	139.7	-19.0	-9.14	1.159	103.3	0.411	1.547	312.7	537.9	0.911	---	9.48	0.520	91.5	249.4	23.7	0.212
4-4500	4-4900	0.322	141.7	-14.9	-7.80	1.158	103.6	0.412	1.540	311.5	543.0	0.906	2.175	8.59	0.521	87.9	244.5	22.3	0.205
4-4500	4-4920	0.321	144.0	-11.1	-6.67	1.158	104.2	0.416	1.538	309.8	547.6	0.899	2.178	7.93	0.523	84.7	240.3	20.4	0.206
4-4500	4-4940	0.326	146.7	-7.8	-5.68	1.158	104.9	0.423	1.540	307.5	551.8	0.888	2.191	7.46	0.527	81.6	237.2	18.5	0.213
4-4500	4-4960	0.336	149.7	-4.8	-4.79	1.159	105.9	0.434	1.544	304.8	555.5	0.875	2.214	7.11	0.530	78.8	235.5	16.6	0.226
4-4500	4-4980	0.353	152.9	-2.3	-3.97	1.160	107.1	0.447	1.551	301.6	558.8	0.857	2.244	6.88	0.533	76.0	235.1	14.8	0.243
4-4500	4-5000	0.374	156.3	-0.2	-3.18	1.162	108.6	0.464	1.559	298.0	561.6	0.836	2.283	6.75	0.537	73.3	236.1	13.3	0.263
4-4500	4-5020	0.402	159.7	1.5	-2.42	1.163	110.3	0.484	1.569	293.9	564.0	0.810	2.329	6.71	0.539	70.6	238.1	12.0	0.286
4-4500	4-5040	0.435	163.2	2.7	-1.66	1.165	112.3	0.507	1.581	289.4	565.9	0.779	2.383	6.75	0.542	67.8	240.9	10.9	0.311
4-4500	4-5060	0.474	166.7	3.6	-0.88	1.167	114.5	0.534	1.593	284.5	567.4	0.742	2.445	6.88	0.544	65.0	244.5	10.0	0.339
4-4500	4-5080	0.519	170.2	4.1	-0.07	1.170	117.1	0.565	1.607	279.1	568.4	0.700	2.515	7.11	0.545	61.9	248.6	9.3	0.369
4-4500	4-5100	0.571	173.7	4.3	0.80	1.172	120.0	0.599	1.622	273.3	568.9	0.650	2.593	7.44	0.546	58.7	253.3	8.6	0.402
4-4500	4-5120	0.630	177.2	4.2	1.75	1.175	123.3	0.637	1.637	267.1	568.9	0.594	2.680	7.90	0.546	55.2	258.5	8.1	0.437
4-4500	4-5140	0.696	180.7	3.9	2.83	1.177	127.0	0.679	1.654	260.5	568.4	0.531	2.776	8.51	0.546	51.3	264.0	7.7	0.474
4-4500	4-5160	0.771	184.3	3.3	4.08	1.180	131.1	0.723	1.671	253.4	567.3	0.463	2.879	9.34	0.546	47.1	270.0	7.2	0.515
4-4510	4-4690	0.634	176.9	38.4	16.08	1.359	111.5	0.872	6.706	313.7	471.2	0.858	---	-18.66	0.839	139.9	257.9	-13.6	0.734
4-4510	4-4710	0.629	190.9	48.3	22.03	1.301	108.7	0.734	3.308	315.3	478.0	0.879	---	-24.25	0.747	134.7	258.2	-19.7	0.646
4-4510	4-4730	0.738	218.4	54.3	32.84	1.260	106.3	0.633	2.451	317.4	485.0	0.900	---	-34.72	0.678	129.1	254.9	-29.1	0.615
4-4510	4-4790	0.884	150.1	-70.9	-45.24	1.193	103.6	0.477	1.749	316.8	506.9	0.914	---	44.44	0.563	113.5	249.4	41.0	0.551
4-4510	4-4810	0.604	137.4	-57.7	-28.73	1.182	102.4	0.446	1.671	318.9	513.8	0.926	---	28.30	0.546	108.2	257.5	37.8	0.401
4-4510	4-4830	0.466	136.0	-47.6	-20.46	1.174	101.7	0.425	1.621	320.0	520.5	0.932	---	20.42	0.534	103.3	259.5	34.5	0.320
4-4510	4-4850	0.389	136.8	-39.5	-15.61	1.169	101.2	0.411	1.589	320.4	526.8	0.935	---	15.96	0.528	98.9	258.4	32.1	0.270
4-4510	4-4870	0.343	138.4	-32.5	-12.41	1.165	101.1	0.403	1.568	320.3	532.8	0.936	---	13.17	0.525	94.8	255.2	30.1	0.238
4-4510	4-4890	0.316	140.5	-26.3	-10.11	1.163	101.2	0.400	1.556	319.6	538.3	0.934	---	11.29	0.525	91.1	251.0	28.1	0.218
4-4510	4-4910	0.301	143.2	-20.8	-8.34	1.162	101.6	0.400	1.550	318.4	543.3	0.930	2.170	9.97	0.527	87.8	246.4	25.9	0.209
4-4510	4-4930	0.295	146.2	-15.8	-6.91	1.162	102.1	0.404	1.549	316.8	547.9	0.923	2.175	9.02	0.529	84.7	242.5	23.4	0.208
4-4510	4-4950	0.297	149.7	-11.5	-5.71	1.162	102.9	0.411	1.551	314.3	552.0	0.914	2.188	8.32	0.532	81.9	239.6	20.9	0.213
4-4510	4-4970	0.305	153.3	-7.8	-4.67	1.163	103.8	0.420	1.556	311.5	555.7	0.902	2.211	7.81	0.535	79.2	238.1	18.6	0.224
4-4510	4-4990	0.319	157.1	-4.7	-3.73	1.165	105.0	0.433	1.564	308.3	558.9	0.887	2.240	7.45	0.538	76.6	238.0	16.5	0.239
4-4510	4-5010	0.339	161.0	-2.2	-2.87	1.166	106.4	0.448	1.573	304.7	561.7	0.868	2.277	7.21	0.541	74.2	239.0	14.7	0.257
4-4510	4-5030	0.364	164.8	-0.3	-2.05	1.168	108.0	0.466	1.583	300.8	564.1	0.846	2.321	7.07	0.544	71.7	241.0	13.2	0.278
4-4510	4-5050	0.394	168.6	1.1	-1.25	1.170	109.8	0.487	1.595	296.1	566.1	0.818	2.372	7.02	0.546	69.2	243.9	12.0	0.301
4-4510	4-5070	0.430	172.4	2.0	-0.46	1.172	111.9	0.511	1.608	291.3	567.6	0.786	2.429	7.07	0.547	66.6	247.4	10.9	0.325
4-4510	4-5090	0.471	176.0	2.6	0.34	1.174	114.2	0.538	1.622	286.1	568.7	0.749	2.494	7.20	0.548	63.9	251.4	10.1	0.352
4-4510	4-5110	0.518	179.6	2.8	1.17	1.177	116.9	0.569	1.636	280.6	569.4	0.705	2.567	7.42	0.548	61.0	256.0	9.4	0.381
4-4510	4-5130	0.571	183.1	2.7	2.06	1.179	119.8	0.603	1.652	274.7	569.7	0.656	2.647	7.76	0.549	57.9	261.0	8.8	0.412
4-4510	4-5150	0.631	186.6	2.3	3.03	1.182	123.1	0.640	1.668	268.4	569.5	0.600	2.736	8.21	0.548	54.5	266.3	8.2	0.445
4-4510	4-5170	0.697	190.0	1.8	4.11	1.184	126.8	0.681	1.685	261.7	568.9	0.538	2.832	8.82	0.548	50.8	271.9	7.8	0.480
4-4520	4-4680	0.635	173.0	27.4	10.39	1.429	111.1	1.03624.525		318.5	463.8	0.872	---	-12.60	0.943	143.2	259.7	-8.6	0.828
4-4520	4-4700	0.557	177.7	34.9	12.83	1.352	108.3	0.844	5.722	319.9	478.5	0.892	---	-14.66	0.826	138.3	261.6	-11.5	0.700
4-4520	4-4720	0.524	186.0	44.1	16.30	1.297	105.8	0.709	3.124	321.6	477.6	0.910	---	-17.77	0.737	133.1	262.8	-15.8	0.603
4-4520	4-4740	0.546	201.9	53.3	21.70	1.258	103.6	0.611	2.379	323.7	485.0	0.926	---	-22.81	0.671	127.6	262.6	-22.5	0.540
4-4520	4-4760	0.668	229.8	57.2	31.29	1.229	101.7	0.539	2.039	326.1	492.6	0.940	---	-32.03	0.623	122.0	258.8	-32.1	0.526
4-4520	4-4780	0.983	259.1	48.4	51.33	1.209	99.9	0.485	1.852	329.3	500.2	0.954	---	-51.70	0.588	116.3	246.7	-41.3	0.627
4-4520	4-4820	0.918	143.6	-79.3	-48.15	1.184	100.5	0.434	1.668	324.8	514.4	0.944	---	48.53	0.547	107.2	248.3	44.4	0.560
4-4520	4-4840	0.595	131.8	-63.7	-29.29	1.177	99.5	0.413	1.622	326.8	521.2	0.952	---	30.05	0.537	102.3	256.5	42.6	0.388
4-4520	4-4860	0.441	133.1	-52.3	-20.15	1.172	99.1	0.400	1.592	327.8	527.6	0.955	---	21.30	0.532	98.0	257.9	39.1	0.303
4-4520	4-4880	0.359	135.9	-42.9	-14.92	1.169	99.0	0.393	1.574	327.8	533.5	0.955	---	16.48	0.530	94.2	255.8	35.9	0.256
4-4520	4-4900	0.313	139.2	-34.7	-11.53	1.167	99.1	0.390	1.563	326.9	539.0	0.954	---	13.51	0.530	90.7	252.0	32.8	0.229
4-4520	4-4920	0.287	142.9	-27.4	-9.11	1.166	99.5	0.390	1.559	325.6	543.9	0.950	2.167	11.54	0.532	87.5	247.9	29.6	0.215
4-4520	4-4940	0.274	147.0	-21.0	-7.28	1.166	100.0	0.394	1.559	323.7	548.4	0.944	2.173	10.16	0.534	84.6	244.2	26.4	0.211
4-4520	4-4960	0.271	151.4	-15.4	-5.81	1.167	100.8	0.400	1.562	321.3	552.4	0.937	2.187	9.16	0.537	82.0	241.7	23.3	0.215
4-4520	4-4980	0.277	156.0	-10.7	-4.58	1.168	101.7	0.409	1.568	318.4	556.0	0.926	2.210	8.46	0.540	79.5	240.5	20.4	0.224
4-4520	4-5000	0.288	160.6	-7.0	-3.52	1.169	102.9	0.421	1.576	315.2	559.2	0.913	2.239	7.94	0.543	77.1	240.5	18.0	0.237
4-4520	4-5020	0.306	165.1	-4.0	-2.57	1.171	104.2	0.434	1.586	311.5	561.9	0.897	2.274	7.57	0.545	74.8	241.7	15.9	0.253
4-4520	4-5040	0.328	169.5	-1.8	-1.69	1.173	105.7	0.451	1.597	307.4	564.3	0.877	2.316	7.32	0.547	72.6	243.8	14.2	0.271
4-4520	4-5060	0.356	173.8	-0.3	-0.86	1.175	107.4	0.469	1.609	303.0	566.2	0.854	2.364	7.18	0.549	70.3	246.7	12.8	0.292
4-4520	4-5080	0.389	177.8	0.7	-0.07	1.177	109.4	0.491	1.622	298.2	567.8	0.826	2.419	7.13	0.550	68.0	250.2	11.6	0.314
4-4520	4-5100	0.427	181.7	1.3	0.72	1.179	111.5	0.515	1.636	293.1	569.0	0.793	2.479	7.17	0.551	65.5	254.2	10.7	0.338
4-4520	4-5120	0.470	185.4	1.5	1.52	1.181	113.9	0.543	1.651	287.7	569.9	0.755	2.547	7.30	0.551	62.9	258.7	9.9	0.363
4-4520	4-5140	0.518	189.0	1.3	2.35	1.184	116.6	0.573	1.666	282.1	570.3	0.711	2.621	7.51	0.551	60.2	263.5	9.2	0.390
4-4520	4-5160	0.572	192.5	1.0	3.23	1.186	119.5	0.607	1.682	276.1	570.4	0.862	2.703	7.83	0.550	57.2	268.6	8.7	0.419
4-4520	4-5180	0.632	195.9	0.4	4.18	1.189	122.8	0.643	1.699	269.8	570.1	0.607	2.792	8.27	0.549	54.0	274.1	8.2	0.450
4-4530	4-4690	0.568	175.7	26.2	9.15	1.416	107.5	0.99846.318		325.0	463.2	0.906	---	-10.58	0.922	141.5	262.8	-7.6	0.792
4-4530	4-4710	0.491	179.0	33.3	10.86	1.343	104.9	0.811	4.886	326.7	470.3	0.923	---	-11.91	0.810	136.6	264.8	-9.9	0.666
4-4530	4-4730	0.450	184.4	41.9	13.12	1.291	102.6	0.680	2.931	328.6	477.8	0.937	---	-13.80	0.725	131.4	266.3	-13.2	0.568
4-4530	4-4750	0.445	194.2	51.2	16.30	1.254	100.7	0.587	2.298	330.9	485.5	0.950	---	-16.61	0.663	125.9	267.0	-18.0	0.495

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4530	4-4770	0.490	212.2	59.0	21.20	1.227	99.1	0.519	1.997	333.2	493.4	0.960	---	-21.14	0.617	120.4	266.0	-25.2	0.450
4-4530	4-4790	0.613	240.5	60.7	29.76	1.209	97.7	0.471	1.829	335.7	501.3	0.968	---	-29.33	0.585	114.9	261.7	-35.1	0.452
4-4530	4-4810	0.907	267.5	51.7	47.53	1.195	96.4	0.435	1.726	338.7	509.1	0.976	---	-46.73	0.563	109.6	250.3	-44.0	0.556
4-4530	4-4850	0.940	105.4	-84.2	-49.99	1.179	97.6	0.404	1.619	333.2	522.2	0.966	---	51.55	0.539	101.4	248.0	46.4	0.572
4-4530	4-4870	0.579	122.6	-66.9	-28.97	1.175	97.0	0.391	1.593	334.9	520.7	0.970	---	30.92	0.535	97.1	255.1	45.9	0.380
4-4530	4-4890	0.413	129.2	-54.5	-19.19	1.172	96.8	0.385	1.577	335.1	534.6	0.971	---	21.53	0.533	93.4	255.3	42.0	0.292
4-4530	4-4910	0.328	134.8	-44.1	-13.75	1.170	97.0	0.382	1.569	334.4	539.9	0.969	---	16.49	0.534	90.0	252.5	37.8	0.248
4-4530	4-4930	0.283	140.3	-34.8	-10.28	1.170	97.4	0.383	1.566	333.0	544.8	0.966	2.165	13.44	0.536	87.1	248.8	33.4	0.226
4-4530	4-4950	0.259	146.0	-26.6	-7.84	1.170	98.0	0.386	1.567	331.0	549.1	0.962	2.173	11.44	0.538	84.3	245.6	29.3	0.217
4-4530	4-4970	0.250	151.7	-19.5	-6.00	1.171	98.7	0.392	1.572	328.5	553.0	0.955	2.188	10.06	0.541	81.9	243.4	25.4	0.218
4-4530	4-4990	0.251	157.5	-13.6	-4.54	1.172	99.7	0.400	1.579	325.6	556.5	0.946	2.211	9.07	0.544	79.6	242.5	22.0	0.225
4-4530	4-5010	0.260	163.1	-9.0	-3.32	1.174	100.8	0.411	1.587	322.2	559.5	0.935	2.240	8.36	0.547	77.4	242.9	19.2	0.236
4-4530	4-5030	0.275	168.6	-5.4	-2.27	1.175	102.0	0.423	1.598	318.4	562.2	0.922	2.274	7.84	0.549	75.3	244.2	16.8	0.250
4-4530	4-5050	0.296	173.7	-2.9	-1.33	1.177	103.5	0.438	1.610	314.3	564.5	0.905	2.314	7.47	0.551	73.2	246.4	14.9	0.267
4-4530	4-5070	0.321	178.6	-1.2	-0.47	1.179	105.1	0.455	1.622	309.9	566.4	0.885	2.360	7.23	0.552	71.1	249.4	13.3	0.285
4-4530	4-5090	0.352	183.1	-0.2	0.33	1.182	106.9	0.474	1.636	305.1	568.0	0.860	2.412	7.08	0.553	69.0	252.9	12.1	0.304
4-4530	4-5110	0.386	187.3	0.4	1.11	1.184	108.9	0.496	1.650	300.2	569.3	0.832	2.469	7.03	0.553	66.9	256.9	11.0	0.326
4-4530	4-5130	0.426	191.2	0.5	1.87	1.186	111.2	0.520	1.665	294.9	570.2	0.799	2.532	7.06	0.553	64.6	261.3	10.2	0.348
4-4530	4-5150	0.470	194.9	0.3	2.64	1.189	113.6	0.547	1.681	289.4	570.8	0.761	2.601	7.17	0.553	62.1	266.0	9.4	0.372
4-4530	4-5170	0.519	198.4	-0.1	3.44	1.191	116.3	0.577	1.697	283.6	571.1	0.718	2.677	7.37	0.552	59.5	271.0	8.8	0.397
4-4530	4-5190	0.572	201.8	-0.8	4.27	1.193	119.2	0.610	1.714	277.6	571.0	0.669	2.759	7.66	0.551	56.7	276.3	8.3	0.423
4-4540	4-4680	0.613	175.8	20.7	7.26	1.501	106.3	1.220	-4.185	330.5	456.1	0.923	---	-8.27	1.043	144.4	263.5	-5.5	0.911
4-4540	4-4700	0.504	177.5	26.2	8.31	1.401	103.6	0.953	20.072	332.0	463.1	0.937	---	-8.92	0.898	139.8	265.7	-6.8	0.754
4-4540	4-4720	0.432	179.6	33.4	9.56	1.332	101.3	0.773	4.192	334.0	470.6	0.950	---	-9.79	0.791	134.9	267.6	-8.7	0.632
4-4540	4-4740	0.390	183.0	41.8	11.14	1.284	99.3	0.649	2.736	336.4	478.5	0.961	---	-10.99	0.711	129.6	269.1	-11.2	0.536
4-4540	4-4760	0.377	189.0	50.8	13.20	1.249	97.6	0.561	2.209	338.9	486.7	0.970	---	-12.68	0.652	124.1	270.0	-14.9	0.460
4-4540	4-4780	0.393	200.3	59.3	16.09	1.225	96.2	0.499	1.948	341.4	494.9	0.976	---	-15.20	0.610	118.6	269.9	-20.3	0.406
4-4540	4-4800	0.447	220.7	65.1	20.49	1.207	95.1	0.455	1.800	343.7	503.0	0.981	---	-19.24	0.580	113.3	268.1	-27.9	0.376
4-4540	4-4820	0.568	249.6	64.9	28.12	1.195	94.2	0.424	1.709	345.9	510.8	0.985	---	-26.51	0.560	108.2	263.2	-37.8	0.388
4-4540	4-4840	0.839	275.1	55.6	43.99	1.186	93.3	0.402	1.651	348.3	518.3	0.988	---	-42.01	0.548	103.4	252.7	-46.2	0.494
4-4540	4-4880	0.948	57.3	-81.7	-50.68	1.177	95.1	0.385	1.592	341.6	529.9	0.979	---	53.39	0.537	96.2	248.9	47.4	0.582
4-4540	4-4900	0.551	113.0	-67.1	-27.73	1.175	94.7	0.378	1.579	342.7	535.9	0.981	---	30.82	0.536	92.5	253.6	47.7	0.371
4-4540	4-4920	0.379	125.8	-54.1	-17.59	1.173	94.8	0.376	1.573	342.2	541.2	0.981	2.164	21.06	0.537	89.3	252.5	43.0	0.283
4-4540	4-4940	0.295	134.6	-42.8	-12.12	1.173	95.2	0.377	1.572	340.7	545.9	0.978	2.165	15.98	0.539	86.5	249.5	37.5	0.243
4-4540	4-4960	0.253	142.5	-32.6	-8.70	1.174	95.8	0.381	1.574	338.6	550.0	0.975	2.174	12.96	0.542	83.9	246.7	32.2	0.227
4-4540	4-4980	0.233	150.2	-23.7	-6.32	1.175	96.6	0.386	1.580	336.0	553.8	0.970	2.191	11.00	0.545	81.6	244.9	27.4	0.223
4-4540	4-5000	0.229	157.5	-16.3	-4.54	1.176	97.6	0.394	1.588	332.9	557.1	0.963	2.214	9.65	0.547	79.5	244.4	23.4	0.227
4-4540	4-5020	0.234	164.6	-10.5	-3.13	1.178	98.7	0.403	1.598	329.4	560.0	0.954	2.243	8.70	0.550	77.5	245.0	20.1	0.236
4-4540	4-5040	0.247	171.2	-6.3	-1.96	1.180	99.9	0.414	1.610	325.5	562.6	0.942	2.277	8.01	0.552	75.6	246.5	17.4	0.248
4-4540	4-5060	0.265	177.3	-3.4	-0.96	1.182	101.3	0.428	1.622	321.4	564.8	0.928	2.316	7.51	0.554	73.7	248.9	15.3	0.263
4-4540	4-5080	0.289	182.8	-1.5	-0.07	1.184	102.9	0.443	1.636	316.9	566.7	0.911	2.360	7.16	0.555	71.8	252.0	13.6	0.279
4-4540	4-5100	0.317	187.9	-0.5	0.74	1.186	104.6	0.460	1.650	312.2	568.2	0.891	2.409	6.92	0.555	69.9	255.5	12.2	0.297
4-4540	4-5120	0.349	192.5	-0.0	1.50	1.188	106.5	0.479	1.665	307.2	569.5	0.866	2.463	6.77	0.555	67.9	259.5	11.1	0.315
4-4540	4-5140	0.386	196.7	-0.0	2.23	1.191	108.5	0.501	1.680	302.1	570.5	0.838	2.522	6.71	0.555	65.9	263.9	10.2	0.335
4-4540	4-5160	0.426	200.7	-0.3	2.95	1.193	110.8	0.525	1.696	296.7	571.2	0.805	2.587	6.73	0.554	63.7	268.5	9.4	0.356
4-4540	4-5180	0.470	204.3	-0.9	3.67	1.195	113.2	0.552	1.712	291.1	571.6	0.768	2.657	6.83	0.553	61.4	273.4	8.8	0.378
4-4540	4-5200	0.519	207.7	-1.6	4.40	1.198	115.9	0.581	1.729	285.3	571.7	0.725	2.733	7.00	0.552	58.9	278.5	8.3	0.401
4-4550	4-4690	0.544	177.0	21.7	6.92	1.477	101.9	1.155	-6.134	337.8	456.2	0.952	---	-7.04	1.008	142.7	266.2	-5.0	0.864
4-4550	4-4710	0.445	177.7	27.7	7.73	1.384	99.6	0.901	9.760	339.8	463.7	0.962	---	-7.47	0.870	138.1	268.2	-6.1	0.714
4-4550	4-4730	0.381	178.4	35.1	8.68	1.320	97.5	0.732	3.621	342.2	471.7	0.971	---	-8.03	0.769	133.0	270.0	-7.6	0.596
4-4550	4-4750	0.343	179.8	43.5	9.81	1.275	95.7	0.616	2.546	344.9	480.1	0.978	---	-8.80	0.694	127.6	271.5	-9.6	0.503
4-4550	4-4770	0.328	182.6	52.3	11.22	1.243	94.3	0.535	2.116	347.7	488.6	0.983	---	-9.85	0.640	122.1	272.3	-12.5	0.429
4-4550	4-4790	0.332	188.8	60.6	13.06	1.221	93.1	0.479	1.895	350.4	497.1	0.987	---	-11.33	0.601	116.7	272.3	-16.5	0.372
4-4550	4-4810	0.359	201.4	67.5	15.63	1.205	92.2	0.440	1.766	352.7	505.3	0.989	---	-13.55	0.574	111.4	271.2	-22.2	0.331
4-4550	4-4830	0.416	225.0	71.4	19.52	1.194	91.6	0.413	1.687	354.7	513.1	0.990	---	-17.10	0.557	106.5	268.3	-30.0	0.313
4-4550	4-4850	0.527	256.0	69.7	26.24	1.186	91.1	0.395	1.638	356.1	520.4	0.990	---	-23.47	0.546	101.9	262.8	-39.7	0.333
4-4550	4-4870	0.773	281.3	60.2	40.35	1.181	90.7	0.383	1.607	357.5	527.3	0.991	---	-37.25	0.540	97.7	253.9	-47.8	0.437
4-4550	4-4910	0.939	47.9	-76.5	-50.18	1.177	92.8	0.375	1.578	349.7	537.4	0.987	---	53.98	0.537	91.6	250.9	47.9	0.585
4-4550	4-4930	0.511	107.3	-64.6	-25.55	1.176	92.7	0.373	1.575	350.1	542.6	0.987	2.162	29.69	0.539	88.4	252.5	48.0	0.359
4-4550	4-4950	0.339	124.7	-51.2	-15.39	1.176	93.1	0.374	1.576	348.7	547.2	0.986	2.168	19.89	0.541	85.8	250.2	42.0	0.275
4-4550	4-4970	0.261	136.4	-38.9	-10.10	1.177	93.7	0.378	1.580	346.5	551.1	0.984	2.177	14.96	0.544	83.4	247.7	35.3	0.242
4-4550	4-4990	0.225	146.5	-27.8	-6.84	1.178	94.5	0.383	1.588	343.7	554.7	0.980	2.195	12.07	0.547	81.2	246.3	29.4	0.231
4-4550	4-5010	0.211	155.9	-18.5	-4.60	1.180	95.5	0.390	1.597	340.4	557.8	0.975	2.219	10.22	0.550	79.3	246.0	24.5	0.231
4-4550	4-5030	0.212	164.7	-11.4	-2.94	1.182	96.6	0.398	1.608	336.8	560.6	0.968	2.248	8.96	0.553	77.4	246.9	20.7	0.238
4-4550	4-5050	0.222	172.7	-6.3	-1.63	1.184	97.8	0.408	1.620	332.8	563.0	0.959	2.282	8.07	0.555	75.7	248.7	17.7	0.248
4-4550	4-5070	0.238	180.0	-3.0	-0.55	1.186	99.2	0.420	1.634	328.5	565.1	0.948	2.320	7.42	0.556	74.0	251.3	15.4	0.260
4-4550	4-5090	0.260	186.5	-1.0	0.37	1.188	100.7	0.433	1.648	324.0	566.9	0.934	2.362	6.96	0.557	72.3	254.4	13.5	0.275
4-4550	4-5110	0.286	192.3	-0.0	1.19	1.190	102.3	0.449	1.663	319.3	568.5	0.917	2.409	6.62	0.557	70.5	258.0	12.1	0.290
4-4550	4-5130	0.315	197.4	0.3	1.93	1.193	104.1	0.466	1.678	314.4	569.7	0.896	2.460	6.40	0.557	68.8	262.1	10.9	0.307
4-4550	4-5150	0.349	202.0	0.1	2.62	1.195	106.0	0.485	1.694	309.3	570.8	0.872	2.516	6.26	0.557	66.9	266.4	9.9	0.324
4-4550	4-5170	0.386	206.2	-0.4	3.28	1.197	108.1	0.507	1.710	304.0	571.5	0.844	2.577	6.20	0.556	65.0	271.0	9.1	0.342
4-4550	4-5190	0.426	210.0	-1.1	3.93	1.200	110.4	0.530	1.727	298.5	572.0	0.812	2.642	6.20	0.555	63.0	275.8	8.5	0.361
4-4550	4-5210	0.470	213.6	-2.0	4.57	1.202	112.8	0.556	1.744	292.9	572.3	0.775	2.713	6.27	0.553	60.8	280.8	8.0	0.381
4-4560	4-4680	0.614	176.1	18.8	6.12	1.579	99.5	1.453	-2.133	344.0	449.8	0.966	---	-5.69	1.148	145.3	266.6	-3.7	1.004
4-4560	4-4700	0.483	176.1	24.0	6.71	1.451	97.3	1.080	12.098	345.9	457.1	0.973	---	-5.87	0.969	141.0	268.6	-4.4	0.815
4-4560	4-4720	0.396	175.4	30.6	7.35	1.365	95.3	0.844	6.285	348.4	465.1	0.979	---	-6.13	0.839	136.3	270.4	-5.3	0.672
4-4560	4-4740	0.341	174.2	38.3	8.06	1.306	93.5	0.688	3.155	351.3	473.7	0.984	---	-6.49	0.744	131.1	272.0	-6.5	0.560
4-4560	4-4760	0.309	172.9	46.5	8.89	1.265	92.0	0.583	2.366	354.5	482.6	0.987	---	-6.97	0.675	125.6	273.2	-8.1	0.470
4-4560	4-4780	0.296	172.3	54.5	9.88	1.236	90.8	0.511	2.021	357.6	491.5	0.988	---	-7.61	0.625	120.1	273.8	-10.4	0.399
4-4560	4-4800	0.297	173.4	62.0	11.10	1.216	89.9	0.462	1.837	0.4	140.2	---	---	-8.51	0.590	114.6	273.6	-13.4	0.342

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4560	4-4820	0.311	178.2	68.6	12.69	1.202	89.2	0.428	1.729	2.7	148.5	---	---	-9.78	0.587	109.4	272.4	-17.6	0.299
4-4560	4-4840	0.339	191.0	74.1	14.90	1.192	88.8	0.406	1.663	4.3	158.2	---	---	-11.67	0.551	104.6	269.9	-23.4	0.271
4-4560	4-4860	0.391	218.6	77.3	18.24	1.186	88.5	0.391	1.621	5.3	163.2	---	---	-14.70	0.543	100.2	265.9	-31.0	0.263
4-4560	4-4880	0.488	256.9	75.2	24.02	1.182	88.4	0.381	1.596	5.7	169.6	---	---	-20.17	0.538	96.3	260.3	-40.1	0.286
4-4560	4-4900	0.703	285.4	65.8	36.33	1.179	88.4	0.376	1.582	5.9	175.5	---	---	-32.17	0.537	92.7	253.8	-48.1	0.384
4-4560	4-4940	0.910	50.7	-71.4	-48.40	1.178	90.7	0.372	1.575	357.3	544.1	0.988	2.161	53.18	0.540	87.6	253.7	48.2	0.579
4-4560	4-4960	0.456	107.2	-60.2	-22.42	1.179	90.9	0.374	1.578	356.7	548.6	0.988	2.168	27.50	0.543	84.9	251.7	46.9	0.342
4-4560	4-4980	0.294	127.1	-45.6	-12.63	1.180	91.5	0.377	1.585	354.5	552.4	0.988	2.182	18.04	0.546	82.7	248.9	39.0	0.267
4-4560	4-5000	0.227	140.8	-31.9	-7.72	1.181	92.3	0.382	1.594	351.5	555.7	0.986	2.202	13.45	0.549	80.7	247.5	31.5	0.242
4-4560	4-5020	0.201	152.6	-20.2	-4.75	1.183	93.3	0.388	1.605	348.1	558.7	0.983	2.227	10.81	0.552	78.9	247.5	25.5	0.236
4-4560	4-5040	0.195	163.4	-11.2	-2.74	1.185	94.4	0.395	1.617	344.3	561.3	0.978	2.258	9.13	0.565	77.2	248.7	21.0	0.240
4-4560	4-5060	0.201	173.1	-5.0	-1.25	1.187	95.7	0.404	1.631	340.2	563.6	0.972	2.289	7.99	0.557	75.6	250.7	17.6	0.248
4-4560	4-5080	0.215	181.8	-1.3	-0.09	1.190	97.0	0.414	1.645	335.8	565.5	0.963	2.326	7.19	0.558	74.1	253.4	15.0	0.259
4-4560	4-5100	0.235	189.4	0.7	0.87	1.192	98.5	0.426	1.660	331.3	567.3	0.952	2.367	6.61	0.559	72.5	256.7	13.1	0.272
4-4560	4-5120	0.258	196.0	1.5	1.68	1.194	100.1	0.440	1.676	326.5	568.7	0.939	2.412	6.19	0.559	71.0	260.4	11.5	0.285
4-4560	4-5140	0.285	201.8	1.5	2.40	1.197	101.8	0.455	1.692	321.6	570.0	0.922	2.461	5.89	0.559	69.4	264.5	10.3	0.300
4-4560	4-5160	0.316	206.9	1.0	3.05	1.199	103.6	0.472	1.708	316.5	571.0	0.902	2.514	5.68	0.558	67.8	268.8	9.4	0.315
4-4560	4-5180	0.349	211.4	0.2	3.65	1.201	105.6	0.491	1.725	311.3	571.8	0.878	2.571	5.55	0.557	66.1	273.4	8.6	0.331
4-4560	4-5200	0.386	215.5	-0.7	4.23	1.204	107.7	0.512	1.742	306.0	572.3	0.851	2.633	5.49	0.556	64.3	278.2	7.9	0.347
4-4560	4-5220	0.426	219.2	-1.8	4.79	1.206	109.9	0.534	1.759	300.5	572.7	0.819	2.698	5.48	0.554	62.3	283.1	7.4	0.365
4-4570	4-4690	0.550	174.0	21.6	6.15	1.540	94.3	1.339	-2.895	352.5	450.9	0.982	---	-4.64	1.095	143.8	268.8	-3.2	0.943
4-4570	4-4710	0.434	172.4	27.5	6.61	1.423	92.5	0.99903	0.009	354.9	458.9	0.985	---	-4.73	0.927	139.4	270.6	-3.7	0.765
4-4570	4-4730	0.361	169.5	34.5	7.10	1.345	90.9	0.784	4.566	358.0	467.6	0.987	---	-4.87	0.805	134.4	272.2	-4.5	0.629
4-4570	4-4750	0.317	165.7	41.9	7.63	1.291	89.4	0.644	2.774	1.6	116.8	---	---	-5.07	0.717	129.0	273.5	-5.4	0.522
4-4570	4-4770	0.294	161.5	49.1	8.23	1.254	88.2	0.552	2.198	5.2	126.2	---	---	-5.38	0.653	123.4	274.3	-6.7	0.438
4-4570	4-4790	0.284	157.4	55.6	8.92	1.228	87.2	0.490	1.927	8.5	135.4	---	---	-5.74	0.608	117.8	274.5	-8.4	0.369
4-4570	4-4810	0.283	154.3	61.3	9.74	1.210	86.5	0.448	1.778	11.3	144.2	---	---	-6.27	0.578	112.4	273.9	-10.7	0.315
4-4570	4-4830	0.290	153.3	66.3	10.75	1.198	86.0	0.421	1.690	13.4	152.3	---	---	-7.00	0.557	107.3	272.3	-13.7	0.273
4-4570	4-4850	0.304	155.7	71.1	12.07	1.190	85.8	0.402	1.635	14.7	159.8	---	---	-8.04	0.545	102.6	269.5	-17.8	0.243
4-4570	4-4870	0.328	164.3	75.9	13.89	1.184	85.7	0.390	1.602	15.2	166.5	---	---	-9.58	0.538	98.4	265.6	-23.1	0.226
4-4570	4-4890	0.369	188.3	80.2	16.64	1.181	85.9	0.383	1.583	15.0	172.5	---	---	-12.07	0.536	94.6	260.8	-29.8	0.225
4-4570	4-4910	0.446	241.1	80.7	21.39	1.180	86.1	0.378	1.574	14.2	177.9	---	---	-16.56	0.536	91.3	255.9	-37.9	0.248
4-4570	4-4930	0.624	284.6	72.5	31.70	1.179	86.4	0.376	1.571	13.1	182.8	---	2.162	-28.60	0.538	88.3	252.3	-46.6	0.331
4-4570	4-4950	1.181	311.4	50.9	64.56	1.180	86.5	0.377	1.573	12.8	187.4	---	2.166	-59.20	0.541	85.5	254.2	-46.8	0.635
4-4570	4-4970	0.856	58.4	-66.7	-45.12	1.181	88.9	0.376	1.579	4.1	190.0	---	2.172	50.74	0.544	84.1	256.8	48.4	0.560
4-4570	4-4990	0.388	112.3	-53.9	-18.34	1.182	89.3	0.379	1.588	2.5	193.7	---	2.189	24.22	0.547	81.9	251.3	43.9	0.320
4-4570	4-5010	0.247	133.2	-36.6	-9.39	1.184	90.1	0.383	1.599	359.5	556.9	0.987	2.211	15.53	0.551	80.1	249.0	34.1	0.259
4-4570	4-5030	0.198	148.1	-21.2	-5.07	1.186	91.1	0.388	1.611	355.9	559.6	0.986	2.230	11.48	0.554	78.4	249.0	26.3	0.243
4-4570	4-5050	0.184	160.9	-9.6	-2.50	1.188	92.3	0.394	1.625	351.9	562.0	0.984	2.268	9.19	0.556	76.9	250.3	20.9	0.243
4-4570	4-5070	0.186	172.4	-2.1	-0.78	1.190	93.5	0.402	1.640	347.7	564.2	0.980	2.299	7.74	0.558	75.4	252.6	17.0	0.249
4-4570	4-5090	0.197	182.5	2.1	0.48	1.193	94.9	0.411	1.655	343.3	566.0	0.975	2.335	6.77	0.559	74.0	255.5	14.2	0.258
4-4570	4-5110	0.214	191.4	4.0	1.47	1.195	96.3	0.422	1.671	338.6	567.6	0.967	2.375	6.08	0.560	72.7	258.9	12.1	0.269
4-4570	4-5130	0.235	199.0	4.4	2.27	1.198	97.8	0.433	1.687	333.8	569.0	0.956	2.419	5.59	0.560	71.3	262.8	10.6	0.281
4-4570	4-5150	0.259	205.5	4.0	2.95	1.200	99.5	0.447	1.704	328.9	570.2	0.943	2.466	5.23	0.560	69.9	266.9	9.4	0.294
4-4570	4-5170	0.287	211.2	3.1	3.55	1.202	101.2	0.462	1.721	323.8	571.2	0.927	2.516	4.97	0.559	68.4	271.2	8.4	0.307
4-4570	4-5190	0.317	216.1	1.8	4.09	1.205	103.1	0.478	1.739	318.7	572.0	0.907	2.570	4.79	0.558	66.9	275.8	7.7	0.321
4-4570	4-5210	0.350	220.6	0.5	4.59	1.207	105.1	0.496	1.756	313.4	572.6	0.884	2.628	4.67	0.557	65.3	280.5	7.0	0.336
4-4570	4-5230	0.386	224.6	-0.9	5.06	1.210	107.1	0.516	1.774	308.1	573.1	0.858	2.689	4.61	0.555	63.6	285.4	6.5	0.351
4-4580	4-4700	0.504	169.2	25.3	6.25	1.500	88.9	1.216	-4.549	2.0	93.1	---	---	-3.56	1.037	142.4	270.5	-2.6	0.881
4-4580	4-4720	0.407	165.3	31.5	6.60	1.394	87.5	0.91311	1.325	5.2	101.9	---	---	-3.58	0.881	137.7	272.0	-3.0	0.714
4-4580	4-4740	0.349	159.9	38.1	6.96	1.322	86.2	0.724	3.556	9.1	111.4	---	---	-3.64	0.768	132.5	273.3	-3.5	0.585
4-4580	4-4760	0.316	153.8	44.2	7.35	1.274	85.1	0.604	2.461	13.2	121.2	---	---	-3.74	0.687	126.9	274.2	-4.2	0.485
4-4580	4-4780	0.299	147.6	49.4	7.77	1.241	84.1	0.525	2.044	17.1	131.0	---	---	-3.89	0.630	121.2	274.6	-5.2	0.405
4-4580	4-4800	0.292	142.2	53.6	8.23	1.219	83.5	0.474	1.836	20.5	140.3	---	---	-4.10	0.590	115.5	274.3	-6.4	0.342
4-4580	4-4820	0.291	138.1	57.1	8.77	1.203	83.0	0.441	1.718	23.1	149.0	---	---	-4.39	0.583	110.0	273.1	-8.0	0.291
4-4580	4-4840	0.293	135.9	60.3	9.40	1.193	82.8	0.418	1.648	24.8	156.8	---	---	-4.79	0.546	105.0	270.8	-10.1	0.252
4-4580	4-4860	0.298	135.7	63.5	10.18	1.186	82.7	0.404	1.606	25.6	163.8	---	---	-5.35	0.537	100.4	267.5	-12.7	0.224
4-4580	4-4880	0.307	137.9	67.1	11.19	1.182	82.8	0.394	1.581	25.6	170.1	---	---	-6.13	0.533	96.3	263.3	-16.0	0.205
4-4580	4-4900	0.322	143.4	71.2	12.58	1.180	83.1	0.388	1.568	24.8	175.6	---	---	-7.31	0.532	92.8	258.6	-20.0	0.197
4-4580	4-4920	0.349	155.4	76.1	14.68	1.179	83.6	0.384	1.563	23.4	180.6	---	2.164	-9.20	0.533	89.7	254.1	-25.2	0.201
4-4580	4-4940	0.403	187.9	81.3	18.32	1.179	84.1	0.382	1.565	21.5	185.0	---	2.163	-12.64	0.536	86.9	250.7	-32.0	0.221
4-4580	4-4960	0.535	266.6	79.8	26.32	1.180	84.7	0.382	1.570	19.2	188.9	---	2.170	-20.44	0.540	84.5	249.7	-41.6	0.283
4-4580	4-4980	1.031	313.6	59.8	55.14	1.182	85.2	0.384	1.579	17.4	192.7	---	2.184	-49.05	0.544	82.3	256.8	-48.1	0.547
4-4580	4-5000	0.768	10.0	-62.5	-39.86	1.184	87.2	0.383	1.590	10.1	195.1	---	2.198	46.15	0.548	81.0	259.4	48.3	0.523
4-4580	4-5020	0.310	122.3	-44.1	-13.33	1.186	87.9	0.387	1.602	7.5	198.1	---	2.222	19.82	0.551	79.3	251.4	38.5	0.295
4-4580	4-5040	0.207	143.0	-22.4	-5.71	1.188	88.9	0.391	1.616	3.8	200.6	---	2.248	12.41	0.554	77.8	250.5	27.4	0.253
4-4580	4-5060	0.181	158.1	-6.5	-2.19	1.191	90.1	0.396	1.632	359.7	562.8	0.985	2.278	9.09	0.557	76.4	251.9	20.3	0.246
4-4580	4-5080	0.179	171.1	2.9	-0.13	1.193	91.3	0.403	1.648	355.3	564.8	0.984	2.311	7.25	0.559	75.1	254.4	15.8	0.250
4-4580	4-5100	0.187	182.5	7.5	1.23	1.196	92.7	0.410	1.664	350.8	566.5	0.982	2.347	6.10	0.560	73.9	257.5	12.8	0.258
4-4580	4-5120	0.201	192.5	9.2	2.23	1.198	94.1	0.419	1.681	346.0	568.0	0.977	2.386	5.32	0.561	72.6	261.1	10.7	0.268
4-4580	4-5140	0.218	201.0	9.1	3.00	1.201	95.6	0.429	1.699	341.2	569.4	0.969	2.428	4.78	0.561	71.4	265.0	9.1	0.279
4-4580	4-5160	0.239	208.4	8.0	3.62	1.203	97.2	0.441	1.716	336.2	570.5	0.960	2.473	4.38	0.561	70.2	269.2	8.0	0.290
4-4580	4-5180	0.263	214.7	6.4	4.15	1.206	98.9	0.454	1.734	331.2	571.5	0.947	2.521	4.10	0.560	68.9	273.6	7.1	0.302
4-4580	4-5200	0.290	220.2	4.6	4.61	1.208	100.7	0.468	1.752	326.1	572.2	0.932	2.572	3.89	0.559	67.5	278.1	6.4	0.314
4-4580	4-5220	0.319	225.1	2.7	5.03	1.210	102.5	0.484	1.770	320.9	572.9	0.913	2.627	3.74	0.558	66.1	282.8	5.9	0.326
4-4580	4-5240	0.351	229.4	0.8	5.41	1.213	104.5	0.501	1.788	315.6	573.4	0.891	2.684	3.64	0.556	64.6	287.6	5.4	0.339
4-4590	4-4690	0.623	166.1	23.5	6.21	1.608	84.1	1.539	-1.811	9.7	87.9	---	---	-2.46	1.185	145.5	270.3	-1.6	1.036
4-4590	4-4710	0.486	161.6	29.0	6.45	1.458	83.3	1.091	10.641	12.9	96.7	---	---	-2.43	0.977	141.1	271.6	-1.8	0.820
4-4590	4-4730	0.407	155.6	34.6	6.69	1.362	82.3	0.830	5.672	17.0	106.4	---	---	-2.41	0.831	136.1	272.8	-2.1	0.663
4-4590	4-4750	0.362	148.7	39.7	6.93	1.299	81.3	0.670	2.900	21.6	116.7	---	---	-2.42	0.728	130.6	273.7	-2.5	0.543

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4590	4-4770	0.338	142.0	43.8	7.18	1.257	80.5	0.570	2.205	26.2	127.1	---	---	-2.46	0.655	124.7	274.1	-2.9	0.449
4-4590	4-4790	0.326	136.2	46.9	7.44	1.228	80.0	0.507	1.905	30.2	137.0	---	---	-2.52	0.604	118.8	273.9	-3.6	0.375
4-4590	4-4810	0.319	131.8	49.2	7.73	1.208	79.6	0.466	1.748	33.3	146.1	---	---	-2.62	0.569	113.0	273.0	-4.3	0.316
4-4590	4-4830	0.316	129.0	51.2	8.05	1.196	79.4	0.440	1.658	35.4	154.4	---	---	-2.76	0.547	107.5	271.0	-5.3	0.270
4-4590	4-4850	0.314	127.8	53.0	8.41	1.187	79.3	0.423	1.605	36.6	161.7	---	---	-2.95	0.534	102.5	268.0	-6.5	0.236
4-4590	4-4870	0.313	127.9	54.9	8.84	1.182	79.5	0.411	1.574	36.8	168.1	---	---	-3.21	0.528	98.1	264.1	-8.0	0.211
4-4590	4-4890	0.313	129.5	57.1	9.36	1.179	79.8	0.403	1.558	36.1	173.8	---	---	-3.58	0.526	94.2	259.6	-9.7	0.195
4-4590	4-4910	0.314	132.5	59.7	10.04	1.178	80.3	0.398	1.551	34.8	178.8	---	---	-4.11	0.527	90.8	255.1	-11.7	0.187
4-4590	4-4930	0.319	137.4	63.0	10.98	1.178	80.9	0.394	1.551	32.8	183.3	---	2.163	-4.90	0.530	87.9	251.2	-14.1	0.186
4-4590	4-4950	0.331	145.0	67.1	12.39	1.179	81.6	0.392	1.556	30.4	187.3	---	2.167	-6.16	0.534	85.4	248.3	-17.3	0.192
4-4590	4-4970	0.359	158.5	72.8	14.82	1.180	82.4	0.391	1.565	27.5	190.8	---	2.177	-8.46	0.539	83.2	246.8	-22.4	0.207
4-4590	4-4990	0.439	197.1	80.2	20.21	1.182	83.2	0.391	1.576	24.3	194.0	---	2.193	-13.70	0.543	81.3	247.4	-31.6	0.243
4-4590	4-5010	0.807	305.6	71.5	41.75	1.185	84.1	0.393	1.590	21.2	197.0	---	2.214	-35.11	0.547	79.6	256.1	-46.8	0.425
4-4590	4-5030	0.626	87.3	-58.0	-31.49	1.187	85.7	0.393	1.604	15.3	199.2	---	2.235	38.27	0.551	78.4	260.5	47.0	0.457
4-4590	4-5050	0.234	137.2	-26.4	-7.36	1.190	86.7	0.396	1.620	11.8	201.6	---	2.263	14.28	0.555	77.0	252.3	29.6	0.270
4-4590	4-5070	0.185	156.2	-1.6	-1.66	1.192	87.9	0.400	1.637	7.5	203.6	---	2.293	8.71	0.557	75.8	253.4	19.1	0.250
4-4590	4-5090	0.181	170.3	10.4	0.86	1.195	89.1	0.405	1.655	3.0	205.5	---	2.326	6.33	0.559	74.6	256.1	13.6	0.252
4-4590	4-5110	0.187	182.5	15.2	2.31	1.198	90.5	0.412	1.673	358.3	567.1	0.984	2.361	5.02	0.560	73.5	259.4	10.5	0.259
4-4590	4-5130	0.197	193.1	16.4	3.26	1.200	91.9	0.419	1.691	353.5	568.5	0.982	2.399	4.21	0.561	72.5	263.2	8.4	0.268
4-4590	4-5150	0.211	202.4	15.6	3.94	1.203	93.4	0.428	1.709	348.6	569.7	0.978	2.440	3.67	0.561	71.4	267.2	7.1	0.277
4-4590	4-5170	0.227	210.4	13.7	4.47	1.206	95.0	0.437	1.728	343.8	570.8	0.972	2.483	3.29	0.561	70.3	271.5	6.1	0.287
4-4590	4-5190	0.246	217.4	11.3	4.90	1.208	96.6	0.448	1.746	338.6	571.7	0.963	2.529	3.02	0.560	69.1	275.9	5.3	0.297
4-4590	4-5210	0.268	223.5	8.7	5.26	1.211	98.3	0.461	1.765	333.5	572.5	0.951	2.578	2.82	0.559	68.0	280.5	4.7	0.308
4-4590	4-5230	0.293	228.8	6.1	5.58	1.213	100.1	0.475	1.783	328.3	573.1	0.937	2.629	2.67	0.558	66.7	285.1	4.3	0.318
4-4590	4-5250	0.321	233.6	3.7	5.86	1.215	101.9	0.490	1.802	323.2	573.6	0.920	2.684	2.56	0.557	65.4	289.9	3.9	0.329
4-4600	4-4700	0.615	159.0	26.6	6.62	1.550	77.8	1.348	-2.713	21.3	92.1	---	---	-1.26	1.107	144.8	271.0	-0.8	0.963
4-4600	4-4720	0.500	152.9	31.5	6.75	1.416	77.4	0.972	33.856	25.6	102.0	---	---	-1.22	0.913	140.0	272.0	-0.9	0.761
4-4600	4-4740	0.436	146.0	35.8	6.87	1.330	76.8	0.756	3.789	30.7	112.8	---	---	-1.20	0.779	134.6	272.8	-1.1	0.614
4-4600	4-4760	0.400	139.4	39.0	6.99	1.275	76.3	0.627	2.445	35.9	123.8	---	---	-1.19	0.685	128.7	273.2	-1.3	0.502
4-4600	4-4780	0.381	133.9	41.3	7.11	1.238	75.9	0.549	1.993	40.5	134.3	---	---	-1.19	0.620	122.5	273.0	-1.5	0.416
4-4600	4-4800	0.369	129.8	42.9	7.24	1.213	75.6	0.500	1.781	44.2	143.9	---	---	-1.21	0.575	116.3	272.1	-1.8	0.348
4-4600	4-4820	0.362	127.2	44.1	7.37	1.197	75.5	0.469	1.665	46.7	152.5	---	---	-1.24	0.547	110.3	270.3	-2.2	0.295
4-4600	4-4840	0.355	125.8	45.2	7.51	1.187	75.6	0.448	1.600	48.1	160.0	---	---	-1.28	0.529	104.8	267.6	-2.6	0.254
4-4600	4-4860	0.349	125.5	46.1	7.67	1.181	75.8	0.435	1.562	48.5	166.6	---	---	-1.35	0.521	99.9	263.9	-3.1	0.225
4-4600	4-4880	0.343	126.3	47.2	7.85	1.177	76.2	0.425	1.542	47.9	172.4	---	---	-1.44	0.517	95.6	259.6	-3.6	0.205
4-4600	4-4900	0.337	127.9	48.3	8.06	1.175	76.7	0.418	1.533	46.6	177.4	---	---	-1.57	0.518	91.8	255.2	-4.2	0.193
4-4600	4-4920	0.330	130.4	49.6	8.32	1.175	77.3	0.413	1.533	44.7	181.9	---	2.165	-1.75	0.521	88.6	251.2	-4.9	0.187
4-4600	4-4940	0.324	133.8	51.2	8.65	1.176	78.1	0.409	1.538	42.3	185.9	---	2.168	-2.01	0.526	85.9	248.1	-5.6	0.187
4-4600	4-4960	0.318	138.3	53.1	9.11	1.178	78.9	0.406	1.547	39.4	189.5	---	2.174	-2.39	0.531	83.6	246.0	-6.6	0.191
4-4600	4-4980	0.316	144.1	55.7	9.79	1.180	79.8	0.404	1.558	38.1	192.7	---	2.188	-3.00	0.536	81.7	245.2	-8.1	0.198
4-4600	4-5000	0.320	152.1	59.3	10.97	1.182	80.8	0.403	1.573	32.4	195.6	---	2.206	-4.11	0.542	80.0	245.5	-10.6	0.208
4-4600	4-5020	0.346	165.3	65.8	13.55	1.185	81.9	0.402	1.588	28.6	198.2	---	2.227	-6.63	0.546	78.5	247.0	-16.0	0.224
4-4600	4-5040	0.511	222.5	79.4	24.33	1.188	83.0	0.403	1.605	24.5	200.5	---	2.252	-17.34	0.550	77.2	252.0	-33.6	0.289
4-4600	4-5060	0.389	117.3	-46.0	-17.29	1.191	84.4	0.404	1.623	19.6	202.5	---	2.279	24.35	0.554	76.1	258.0	39.7	0.347
4-4600	4-5080	0.197	157.0	6.9	-0.41	1.194	85.6	0.407	1.642	15.3	204.4	---	2.310	7.54	0.557	75.0	254.8	16.2	0.253
4-4600	4-5100	0.197	171.9	21.6	2.71	1.196	86.9	0.411	1.660	10.7	206.1	---	2.342	4.48	0.559	74.0	257.7	9.5	0.253
4-4600	4-5120	0.202	183.7	25.5	4.04	1.199	88.3	0.415	1.680	5.9	207.6	---	2.377	3.22	0.560	73.1	261.3	6.6	0.260
4-4600	4-5140	0.207	194.1	25.6	4.78	1.202	89.7	0.421	1.699	1.0	208.9	---	2.415	2.55	0.561	72.1	265.2	5.1	0.269
4-4600	4-5160	0.215	203.4	23.8	5.27	1.205	91.2	0.428	1.718	356.1	570.0	0.983	2.454	2.13	0.561	71.2	269.4	4.1	0.277
4-4600	4-5180	0.225	211.8	21.0	5.61	1.208	92.7	0.436	1.738	351.1	571.1	0.980	2.496	1.85	0.561	70.2	273.7	3.4	0.286
4-4600	4-5200	0.239	219.2	17.7	5.88	1.210	94.3	0.445	1.757	346.0	571.9	0.974	2.540	1.66	0.560	69.2	278.2	2.9	0.295
4-4600	4-5220	0.255	225.8	14.2	6.09	1.213	95.9	0.456	1.777	340.9	572.7	0.967	2.587	1.52	0.559	68.2	282.8	2.6	0.304
4-4600	4-5240	0.274	231.7	10.9	6.27	1.215	97.6	0.468	1.796	335.8	573.3	0.956	2.636	1.41	0.558	67.1	287.5	2.3	0.313
4-4600	4-5260	0.297	236.9	7.7	6.43	1.218	99.4	0.481	1.815	330.7	573.9	0.943	2.687	1.33	0.557	66.0	292.2	2.1	0.322
4-4610	4-4710	0.641	151.6	28.7	7.17	1.492	71.1	1.171	-5.184	34.9	98.4	---	---	0.08	1.026	144.4	270.9	0.1	0.894
4-4610	4-4730	0.543	145.2	32.3	7.16	1.373	71.3	0.869	6.694	40.4	109.6	---	---	0.07	0.847	139.1	271.5	0.1	0.706
4-4610	4-4750	0.489	139.0	35.0	7.15	1.298	71.2	0.700	2.859	46.3	121.1	---	---	0.07	0.725	133.2	271.8	0.1	0.569
4-4610	4-4770	0.458	134.0	36.9	7.14	1.250	71.1	0.601	2.116	51.6	132.2	---	---	0.07	0.640	126.8	271.6	0.1	0.466
4-4610	4-4790	0.439	130.3	38.0	7.14	1.218	71.0	0.542	1.819	55.7	142.3	---	---	0.07	0.582	120.2	270.7	0.1	0.387
4-4610	4-4810	0.425	127.9	38.8	7.13	1.198	71.1	0.506	1.670	58.6	151.2	---	---	0.07	0.545	113.6	269.0	0.1	0.325
4-4610	4-4830	0.415	126.6	39.4	7.12	1.185	71.4	0.482	1.589	60.2	158.9	---	---	0.07	0.522	107.5	266.4	0.1	0.279
4-4610	4-4850	0.405	126.2	39.9	7.11	1.177	71.7	0.466	1.543	60.6	165.5	---	---	0.07	0.510	102.0	262.9	0.1	0.245
4-4610	4-4870	0.395	126.7	40.3	7.10	1.173	72.2	0.454	1.519	60.1	171.3	---	---	0.07	0.506	97.1	258.8	0.2	0.221
4-4610	4-4890	0.384	127.8	40.7	7.10	1.171	72.8	0.445	1.509	58.9	176.4	---	---	0.08	0.506	92.9	254.6	0.2	0.206
4-4610	4-4910	0.373	129.5	41.1	7.09	1.171	73.5	0.438	1.508	56.9	180.8	---	2.168	0.08	0.509	89.4	250.6	0.2	0.198
4-4610	4-4930	0.360	131.8	41.5	7.07	1.172	74.3	0.432	1.513	54.5	184.8	---	2.165	0.09	0.514	86.4	247.4	0.2	0.196
4-4610	4-4950	0.348	134.6	41.8	7.06	1.174	75.2	0.427	1.522	51.6	188.4	---	2.173	0.10	0.521	83.9	245.3	0.3	0.197
4-4610	4-4970	0.334	138.0	42.2	7.04	1.176	76.2	0.423	1.535	48.3	191.6	---	2.185	0.12	0.527	81.8	244.3	0.3	0.202
4-4610	4-4990	0.321	141.9	42.4	7.01	1.179	77.2	0.420	1.550	44.8	194.5	---	2.201	0.14	0.533	80.0	244.4	0.3	0.209
4-4610	4-5010	0.307	146.4	42.5	6.97	1.182	78.3	0.417	1.567	40.7	197.1	---	2.221	0.17	0.539	78.5	245.3	0.4	0.216
4-4610	4-5030	0.292	151.6	42.4	6.91	1.185	79.5	0.416	1.585	36.6	199.4	---	2.244	0.23	0.544	77.2	247.1	0.6	0.224
4-4610	4-5050	0.278	157.2	41.8	6.77	1.188	80.7	0.415	1.605	32.2	201.5	---	2.270	0.37	0.549	76.1	249.5	0.9	0.232
4-4610	4-5070	0.261	162.8	39.2	6.21	1.191	82.0	0.415	1.624	27.7	203.4	---	2.298	0.93	0.553	75.1	252.4	2.1	0.240
4-4610	4-5090	0.279	175.9	48.4	9.02	1.194	83.3	0.416	1.644	23.1	205.2	---	2.329	-1.89	0.556	74.2	255.8	-4.1	0.249
4-4610	4-5110	0.254	180.8	42.3	7.60	1.197	84.6	0.418	1.665	18.3	206.7	---	2.361	-0.47	0.558	73.3	259.4	-1.0	0.256
4-4610	4-5130	0.244	188.6	39.6	7.40	1.200	86.0	0.421	1.686	13.4	208.1	---	2.396	-0.27	0.560	72.5	263.3	-0.6	0.264
4-4610	4-5150	0.239	196.9	36.7	7.31	1.203	87.5	0.426	1.706	8.5	209.3	---	2.432	-0.20	0.560	71.7	267.4	-0.4	0.272
4-4610	4-5170	0.237	205.1	33.3	7.27	1.206	88.9	0.431	1.727	3.5	210.4	---	2.471	-0.15	0.561	70.9	271.6	-0.3	0.279
4-4610	4-5190	0.238	213.0	29.5	7.24	1.209	90.5	0.437	1.747	358.5	571.3	0.983	2.511	-0.13	0.561	70.1	276.1	-0.2	0.287
4-4610	4-5210	0.243	220.4	25.4	7.22	1.212	92.0	0.445	1.768	353.4	572.2	0.981	2.554	-0.11	0.560	69.2	280.6	-0.2	0.294

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4610	4-5230	0.252	227.2	21.1	7.20	1.214	93.6	0.453	1.788	348.4	572.9	0.977	2.598	-0.10	0.559	68.3	285.2	-0.2	0.302
4-4610	4-5250	0.265	233.5	16.9	7.19	1.217	95.3	0.463	1.808	343.3	573.5	0.970	2.645	-0.09	0.558	67.4	289.8	-0.2	0.309
4-4610	4-5270	0.281	239.2	13.0	7.18	1.219	96.9	0.474	1.827	338.3	574.1	0.961	2.694	-0.08	0.557	66.4	294.5	-0.1	0.317
4-4620	4-4740	0.610	140.1	31.7	7.72	1.330	64.9	0.794	3.797	57.4	119.3	---	---	1.50	0.780	138.5	270.1	1.2	0.658
4-4620	4-4760	0.560	135.5	33.3	7.55	1.265	65.3	0.668	2.312	63.3	131.0	---	---	1.43	0.688	131.9	269.8	1.3	0.531
4-4620	4-4780	0.528	132.1	34.2	7.40	1.224	65.7	0.597	1.870	67.9	141.5	---	---	1.38	0.592	124.9	268.8	1.5	0.436
4-4620	4-4800	0.507	130.0	34.8	7.25	1.198	66.1	0.554	1.674	71.0	150.5	---	---	1.35	0.543	117.7	267.1	1.8	0.364
4-4620	4-4820	0.490	128.9	35.1	7.11	1.182	66.5	0.526	1.573	72.7	158.2	---	---	1.33	0.513	110.9	264.6	2.1	0.310
4-4620	4-4840	0.475	128.5	35.3	6.97	1.172	67.1	0.507	1.518	73.2	164.9	---	---	1.33	0.497	104.5	261.3	2.4	0.270
4-4620	4-4860	0.461	128.9	35.4	6.82	1.167	67.7	0.493	1.490	72.7	170.6	---	---	1.34	0.490	98.9	257.4	2.7	0.242
4-4620	4-4880	0.447	129.8	35.4	6.67	1.165	68.4	0.481	1.478	71.3	175.5	---	---	1.37	0.489	94.1	253.3	3.0	0.224
4-4620	4-4900	0.432	131.2	35.3	6.51	1.164	69.3	0.472	1.476	69.3	179.9	---	---	1.42	0.493	90.1	249.5	3.3	0.214
4-4620	4-4920	0.416	133.0	35.2	6.33	1.165	70.2	0.464	1.481	66.8	183.8	---	2.168	1.49	0.499	86.7	246.4	3.5	0.210
4-4620	4-4940	0.400	135.1	34.9	6.13	1.167	71.2	0.456	1.492	63.9	187.3	---	2.173	1.59	0.507	83.9	244.3	3.8	0.210
4-4620	4-4960	0.383	137.5	34.5	5.90	1.170	72.2	0.450	1.506	60.6	190.5	---	2.183	1.73	0.514	81.6	249.2	4.1	0.213
4-4620	4-4980	0.365	140.3	33.9	5.61	1.173	73.3	0.444	1.522	56.9	193.4	---	2.199	1.93	0.522	79.7	243.2	4.5	0.218
4-4620	4-5000	0.347	143.3	32.9	5.25	1.177	74.5	0.439	1.541	53.0	196.0	---	2.218	2.20	0.529	78.2	244.1	5.1	0.225
4-4620	4-5020	0.327	146.6	31.3	4.76	1.180	75.7	0.435	1.560	48.9	198.4	---	2.239	2.61	0.536	76.9	245.8	5.9	0.232
4-4620	4-5040	0.307	149.8	28.7	4.04	1.184	76.9	0.432	1.581	44.6	200.5	---	2.264	3.25	0.542	75.7	248.1	7.1	0.240
4-4620	4-5060	0.285	152.7	23.7	2.83	1.187	78.2	0.429	1.602	40.1	202.5	---	2.291	4.38	0.547	74.8	251.0	9.3	0.249
4-4620	4-5080	0.263	153.6	12.5	0.34	1.191	79.6	0.428	1.624	35.5	204.2	---	2.319	6.80	0.561	73.9	254.6	13.8	0.262
4-4620	4-5100	0.293	142.7	-22.8	-8.25	1.194	80.9	0.428	1.646	30.9	205.8	---	2.350	15.31	0.554	73.1	260.6	27.3	0.305
4-4620	4-5120	0.957	320.5	77.0	50.04	1.197	82.5	0.427	1.668	25.2	207.2	---	2.381	-43.05	0.557	72.5	279.0	-44.3	0.518
4-4620	4-5140	0.389	206.0	61.4	16.83	1.201	83.8	0.429	1.690	20.8	208.5	---	2.416	-9.91	0.558	71.8	266.8	-18.3	0.291
4-4620	4-5160	0.316	204.5	50.9	12.42	1.204	85.2	0.432	1.712	15.9	209.6	---	2.452	-5.57	0.559	71.1	270.1	-10.4	0.284
4-4620	4-5180	0.287	208.9	44.4	10.70	1.207	86.7	0.436	1.734	10.9	210.7	---	2.490	-3.92	0.560	70.4	274.2	-7.2	0.287
4-4620	4-5200	0.272	215.0	39.0	9.76	1.210	88.2	0.441	1.756	5.9	211.6	---	2.529	-3.06	0.560	69.7	278.6	-5.5	0.291
4-4620	4-5220	0.265	221.5	33.9	9.17	1.213	89.7	0.446	1.777	0.8	212.4	---	2.570	-2.54	0.560	69.0	283.1	-4.5	0.297
4-4620	4-5240	0.263	228.0	29.0	8.75	1.215	91.3	0.453	1.798	355.8	573.1	0.983	2.613	-2.19	0.559	68.2	287.6	-3.8	0.302
4-4620	4-5260	0.266	234.4	24.1	8.44	1.218	92.9	0.461	1.819	350.8	573.7	0.980	2.657	-1.95	0.558	67.4	292.3	-3.3	0.308
4-4620	4-5280	0.274	240.4	19.4	8.18	1.220	94.5	0.470	1.839	345.8	574.3	0.974	2.704	-1.77	0.557	66.6	296.9	-2.9	0.314
4-4630	4-4750	0.693	137.8	30.4	8.47	1.289	58.3	0.754	2.706	75.8	190.5	---	---	3.12	0.711	138.3	267.6	2.4	0.620
4-4630	4-4770	0.642	134.8	31.2	8.11	1.233	59.3	0.666	1.957	80.8	141.3	---	---	2.92	0.609	130.9	286.6	2.7	0.502
4-4630	4-4790	0.607	132.9	31.6	7.78	1.199	60.1	0.614	1.683	84.0	150.4	---	---	2.77	0.543	123.1	284.9	3.0	0.415
4-4630	4-4810	0.581	131.9	31.7	7.47	1.178	60.9	0.582	1.554	85.7	158.1	---	---	2.67	0.502	115.3	282.5	3.5	0.351
4-4630	4-4830	0.560	131.7	31.7	7.18	1.166	61.8	0.559	1.487	86.0	164.5	---	---	2.59	0.480	107.9	259.3	3.9	0.304
4-4630	4-4850	0.540	132.1	31.6	6.90	1.159	62.7	0.541	1.454	85.4	170.0	---	---	2.55	0.470	101.3	255.6	4.3	0.271
4-4630	4-4870	0.522	132.9	31.4	6.62	1.156	63.6	0.527	1.440	83.9	174.9	---	---	2.54	0.468	95.7	251.7	4.8	0.249
4-4630	4-4890	0.503	134.1	31.1	6.34	1.156	64.6	0.515	1.438	81.8	179.1	---	---	2.56	0.472	91.0	248.1	5.1	0.235
4-4630	4-4910	0.485	135.6	30.7	6.05	1.157	65.7	0.504	1.444	79.3	182.9	---	2.171	2.62	0.479	87.1	245.1	5.5	0.229
4-4630	4-4930	0.465	137.4	30.2	5.74	1.159	66.8	0.494	1.455	76.2	186.3	---	2.174	2.71	0.488	83.9	243.1	5.8	0.227
4-4630	4-4950	0.446	139.4	29.5	5.40	1.162	67.9	0.485	1.470	72.9	189.4	---	2.183	2.84	0.498	81.3	242.0	6.1	0.229
4-4630	4-4970	0.425	141.6	28.7	5.01	1.166	69.1	0.476	1.488	69.2	192.3	---	2.197	3.03	0.507	79.3	242.0	6.5	0.233
4-4630	4-4990	0.405	144.0	27.5	4.57	1.170	70.4	0.469	1.509	65.3	194.9	---	2.216	3.30	0.516	77.6	242.8	7.0	0.238
4-4630	4-5010	0.383	146.5	26.0	4.03	1.174	71.7	0.462	1.530	61.2	197.3	---	2.237	3.68	0.525	76.2	244.4	7.7	0.244
4-4630	4-5030	0.361	149.1	23.7	3.35	1.178	73.0	0.456	1.552	56.9	199.4	---	2.260	4.18	0.532	75.1	246.7	8.6	0.251
4-4630	4-5050	0.339	151.6	20.4	2.43	1.182	74.3	0.451	1.575	52.4	201.4	---	2.286	4.94	0.538	74.1	249.5	9.9	0.258
4-4630	4-5070	0.317	153.7	15.2	1.11	1.186	75.7	0.447	1.599	47.9	203.2	---	2.313	6.11	0.544	73.3	252.8	12.0	0.267
4-4630	4-5090	0.297	154.6	6.2	-1.05	1.190	77.1	0.444	1.623	43.2	204.9	---	2.343	8.12	0.548	72.6	256.6	15.4	0.278
4-4630	4-5110	0.296	151.5	-11.2	-5.30	1.193	78.5	0.442	1.646	38.4	206.4	---	2.374	12.23	0.552	72.0	261.4	21.8	0.299
4-4630	4-5130	0.427	130.5	-42.2	-17.74	1.197	79.8	0.441	1.670	33.9	207.7	---	2.407	24.53	0.555	71.4	270.5	35.4	0.377
4-4630	4-5170	0.571	230.2	71.5	27.51	1.204	83.1	0.440	1.717	22.8	209.9	---	2.473	-20.99	0.558	70.4	277.5	-31.7	0.358
4-4630	4-5190	0.405	218.3	58.2	17.87	1.207	84.5	0.443	1.740	18.0	210.9	---	2.510	-11.48	0.559	69.9	278.1	-19.5	0.313
4-4630	4-5210	0.343	219.3	49.8	14.21	1.210	86.0	0.446	1.763	13.1	211.8	---	2.549	-7.96	0.559	69.3	281.7	-13.7	0.305
4-4630	4-5230	0.311	223.5	43.2	12.28	1.213	87.5	0.450	1.785	8.2	212.6	---	2.588	-6.16	0.559	68.7	285.9	-10.5	0.305
4-4630	4-5250	0.293	228.8	37.4	11.06	1.216	89.0	0.455	1.807	3.2	213.3	---	2.630	-5.08	0.558	68.0	290.3	-8.6	0.307
4-4630	4-5270	0.284	234.7	31.9	10.21	1.218	90.6	0.462	1.829	358.3	573.9	0.984	2.673	-4.36	0.557	67.3	294.9	-7.2	0.311
4-4630	4-5290	0.281	240.6	26.7	9.58	1.221	92.1	0.469	1.850	353.3	574.5	0.982	2.717	-3.86	0.556	66.6	299.5	-6.3	0.314
4-4640	4-4760	0.787	137.9	28.6	9.49	1.250	51.5	0.752	2.143	94.3	141.8	---	---	4.98	0.642	138.7	264.1	3.6	0.593
4-4640	4-4780	0.731	136.2	28.9	8.85	1.202	53.1	0.690	1.713	97.4	150.8	---	---	4.58	0.549	130.2	262.4	4.0	0.484
4-4640	4-4800	0.691	135.4	28.9	8.30	1.174	54.4	0.651	1.537	98.9	158.2	---	---	4.27	0.492	121.4	260.1	4.4	0.405
4-4640	4-4820	0.660	135.3	28.8	7.80	1.158	55.7	0.623	1.453	99.1	164.4	---	---	4.04	0.460	112.7	257.1	4.9	0.348
4-4640	4-4840	0.633	135.7	28.6	7.35	1.149	56.9	0.602	1.413	98.2	169.7	---	---	3.87	0.445	104.8	253.6	5.4	0.308
4-4640	4-4860	0.609	136.6	28.2	6.92	1.146	58.1	0.584	1.396	96.6	174.3	---	---	3.76	0.441	97.9	250.0	5.9	0.281
4-4640	4-4880	0.586	137.7	27.8	6.50	1.145	59.4	0.568	1.393	94.3	178.3	---	---	3.69	0.445	92.2	246.6	6.2	0.263
4-4640	4-4900	0.563	139.1	27.2	6.09	1.146	60.7	0.554	1.399	91.8	182.0	---	2.174	3.67	0.454	87.8	243.8	6.6	0.254
4-4640	4-4920	0.541	140.7	26.6	5.68	1.149	61.9	0.540	1.412	88.5	185.3	---	2.175	3.70	0.465	83.9	241.8	6.9	0.250
4-4640	4-4940	0.518	142.5	25.8	5.25	1.153	63.3	0.528	1.429	85.1	188.3	---	2.183	3.77	0.476	80.9	240.8	7.1	0.249
4-4640	4-4960	0.495	144.4	24.9	4.80	1.157	64.6	0.517	1.449	81.4	191.1	---	2.197	3.90	0.488	78.6	240.7	7.4	0.252
4-4640	4-4980	0.472	146.5	23.8	4.31	1.161	66.0	0.506	1.470	77.5	193.7	---	2.218	4.10	0.499	76.7	241.5	7.8	0.255
4-4640	4-5000	0.449	148.6	22.3	3.76	1.166	67.4	0.496	1.494	73.4	196.1	---	2.235	4.37	0.510	75.3	243.0	8.3	0.260
4-4640	4-5020	0.425	150.8	20.5	3.12	1.170	68.8	0.487	1.518	69.1	198.3	---	2.258	4.74	0.519	74.1	245.2	8.9	0.265
4-4640	4-5040	0.401	153.0	18.1	2.35	1.175	70.2	0.479	1.543	64.6	200.3	---	2.283	5.26	0.527	73.2	247.9	9.8	0.271
4-4640	4-5060	0.378	155.1	14.8	1.40	1.179	71.7	0.473	1.569	60.1	202.1	---	2.310	5.98	0.534	72.4	251.1	11.0	0.277
4-4640	4-5080	0.355	156.8	10.1	0.13	1.184	73.1	0.467	1.594	55.4	203.8	---	2.338	7.03	0.540	71.8	254.7	12.8	0.284
4-4640	4-5100	0.336	157.8	3.1	-1.69	1.188	74.6	0.462	1.620	50.7	205.4	---	2.368	8.62	0.545	71.3	258.7	15.3	0.293
4-4640	4-5120	0.325	156.9	-8.0	-4.55	1.192	76.0	0.458	1.645	45.9	206.8	---	2.399	11.27	0.549	70.8	263.2	19.3	0.307
4-4640	4-5140	0.349	150.8	-25.8	-9.88	1.196	77.4	0.455	1.671	41.2	208.0	---	2.432	16.41	0.552	70.3	269.0	26.1	0.334
4-4640	4-5160	0.521	125.8	-47.3	-23.30	1.200	78.7	0.455	1.696	36.7	209.2	---	2.466	29.62	0.554	69.8	279.6	37.5	0.422
4-4640	4-5200	0.788	255.4	79.0	39.92	1.206	82.5	0.451	1.745	24.5	211.0	---	2.531	-33.97	0.557	69.3	291.4	-39.7	0.455

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

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

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

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DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THET1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4670	4-5230	0.472	159.5	-43.1	-17.29	1.202	74.4	0.496	1.751	48.4	211.2	---	2.620	21.61	0.549	65.9	291.6	28.1	0.391
4-4670	4-5250	0.607	138.2	-51.7	-27.32	1.206	75.8	0.494	1.778	44.1	212.0	---	2.657	31.33	0.550	65.7	301.0	35.4	0.450
4-4670	4-5270	0.956	107.3	-46.9	-49.07	1.209	76.8	0.494	1.805	40.7	212.8	---	2.697	52.76	0.551	65.4	318.0	41.2	0.605
4-4670	4-5310	0.944	233.2	79.9	48.85	1.215	81.8	0.482	1.856	25.3	214.0	---	2.751	-45.75	0.562	65.8	324.1	-41.4	0.545
4-4670	4-5330	0.650	240.7	64.9	31.72	1.218	83.0	0.485	1.881	21.7	214.7	---	2.792	-28.91	0.552	65.4	318.4	-34.7	0.426
4-4680	4-4800	1.193	150.3	20.3	21.17	1.127	22.9	0.927	1.352	150.7	170.8	---	---	20.00	0.391	150.1	248.8	6.0	0.637
4-4680	4-4820	1.108	151.7	19.4	16.43	1.099	27.0	0.896	1.247	147.2	173.1	---	---	15.63	0.312	134.5	246.2	6.3	0.546
4-4680	4-4840	1.041	153.3	18.5	13.29	1.087	30.5	0.866	1.208	143.6	175.4	---	---	12.88	0.279	117.0	243.7	6.6	0.484
4-4680	4-4860	0.986	155.0	17.6	11.04	1.085	33.7	0.838	1.199	139.9	177.8	---	---	11.03	0.278	101.2	241.4	6.8	0.443
4-4680	4-4880	0.938	156.8	16.6	9.31	1.087	36.5	0.810	1.206	136.1	180.2	---	2.183	9.73	0.295	89.2	239.6	6.9	0.415
4-4680	4-4900	0.895	158.6	15.6	7.92	1.092	39.2	0.784	1.222	132.2	182.6	---	2.180	8.78	0.320	80.8	238.5	7.0	0.396
4-4680	4-4920	0.856	160.4	14.5	6.75	1.099	41.7	0.758	1.245	128.1	184.9	---	2.189	8.08	0.348	75.2	238.2	7.1	0.384
4-4680	4-4940	0.818	162.2	13.4	5.73	1.106	44.1	0.734	1.271	124.0	187.2	---	2.205	7.57	0.375	71.3	238.5	7.2	0.376
4-4680	4-4960	0.783	164.0	12.2	4.82	1.114	46.3	0.711	1.301	119.8	189.4	---	2.225	7.21	0.400	68.7	239.6	7.2	0.370
4-4680	4-4980	0.748	165.8	10.9	3.98	1.122	48.5	0.689	1.332	115.5	191.6	---	2.249	6.96	0.422	67.0	241.3	7.4	0.367
4-4680	4-5000	0.715	167.6	9.6	3.19	1.130	50.6	0.668	1.364	111.1	193.6	---	2.275	6.81	0.443	65.8	243.5	7.5	0.365
4-4680	4-5020	0.682	169.3	8.1	2.42	1.138	52.7	0.648	1.397	106.7	195.6	---	2.302	6.75	0.461	65.1	246.1	7.8	0.363
4-4680	4-5040	0.651	171.1	6.4	1.65	1.145	54.7	0.629	1.430	102.1	197.5	---	2.330	6.78	0.476	64.6	249.2	8.1	0.362
4-4680	4-5060	0.620	172.8	4.6	0.88	1.152	56.6	0.612	1.464	97.5	199.3	---	2.360	6.90	0.490	64.4	252.6	8.5	0.361
4-4680	4-5080	0.590	174.4	2.5	0.07	1.159	58.5	0.596	1.497	92.8	201.0	---	2.390	7.11	0.501	64.3	256.2	8.9	0.360
4-4680	4-5100	0.561	176.0	0.2	-0.79	1.165	60.3	0.581	1.531	88.1	202.6	---	2.420	7.42	0.511	64.2	260.1	9.5	0.359
4-4680	4-5120	0.534	177.5	-2.6	-1.73	1.171	62.1	0.568	1.564	83.4	204.1	---	2.452	7.86	0.519	64.3	264.1	10.3	0.358
4-4680	4-5140	0.508	178.8	-5.8	-2.79	1.176	63.8	0.556	1.596	78.7	205.5	---	2.483	8.45	0.526	64.4	268.3	11.2	0.357
4-4680	4-5160	0.484	179.8	-9.7	-4.01	1.182	65.6	0.545	1.628	73.9	206.8	---	2.515	9.23	0.532	64.5	272.7	12.4	0.357
4-4680	4-5180	0.463	180.5	-14.4	-5.48	1.186	67.2	0.535	1.660	69.1	207.9	---	2.548	10.28	0.536	64.6	277.2	14.0	0.358
4-4680	4-5200	0.448	180.4	-20.3	-7.30	1.191	68.8	0.527	1.691	64.4	209.0	---	2.581	11.72	0.540	64.6	281.9	15.9	0.361
4-4680	4-5220	0.441	179.1	-27.5	-9.69	1.195	70.4	0.520	1.721	59.7	210.0	---	2.615	13.74	0.543	64.7	286.9	18.6	0.366
4-4680	4-5240	0.451	175.2	-36.3	-13.02	1.200	72.0	0.514	1.750	55.1	210.9	---	2.650	16.71	0.545	64.7	292.3	22.1	0.376
4-4680	4-5260	0.493	166.2	-45.9	-18.05	1.203	73.4	0.510	1.779	50.6	211.8	---	2.685	21.39	0.547	64.6	298.6	27.0	0.397
4-4680	4-5280	0.602	147.2	-53.3	-26.55	1.207	74.8	0.507	1.806	46.4	212.6	---	2.722	29.58	0.548	64.5	307.1	33.5	0.442
4-4680	4-5300	0.863	119.2	-50.9	-43.17	1.210	75.9	0.506	1.834	42.8	213.4	---	2.761	45.86	0.549	64.3	321.1	39.9	0.553
4-4680	4-5340	1.151	186.8	83.2	61.33	1.216	81.3	0.491	1.885	26.7	214.6	---	2.811	-59.27	0.550	64.9	338.9	-41.8	0.643
4-4690	4-4830	1.200	156.8	16.9	21.66	1.081	20.4	0.939	1.198	156.1	175.5	---	---	21.69	0.260	139.3	244.4	6.1	0.589
4-4690	4-4850	1.127	158.7	15.8	16.30	1.071	24.4	0.913	1.166	151.9	177.1	---	---	16.73	0.226	117.4	242.2	6.3	0.527
4-4690	4-4870	1.066	160.6	14.7	12.84	1.070	28.0	0.886	1.162	147.7	179.0	---	---	13.67	0.231	97.7	240.4	6.4	0.485
4-4690	4-4890	1.014	162.5	13.6	10.38	1.073	31.3	0.858	1.173	143.5	181.0	---	2.179	11.64	0.257	84.0	239.2	6.5	0.456
4-4690	4-4910	0.967	164.5	12.4	8.52	1.080	34.3	0.831	1.192	139.3	183.1	---	2.184	10.22	0.290	75.3	238.7	6.5	0.436
4-4690	4-4930	0.924	166.4	11.3	7.03	1.088	37.1	0.805	1.217	135.1	185.2	---	2.197	9.21	0.323	69.8	238.8	6.6	0.422
4-4690	4-4950	0.883	168.2	10.0	5.79	1.096	39.8	0.779	1.246	130.8	187.3	---	2.217	8.46	0.354	66.4	239.7	6.6	0.413
4-4690	4-4970	0.845	170.1	8.8	4.72	1.105	42.3	0.754	1.277	126.5	189.4	---	2.241	7.92	0.383	64.3	241.1	6.7	0.406
4-4690	4-4990	0.808	171.9	7.5	3.76	1.114	44.7	0.731	1.310	122.1	191.4	---	2.268	7.53	0.408	62.9	243.2	6.8	0.401
4-4690	4-5010	0.773	173.7	6.1	2.88	1.123	47.0	0.708	1.344	117.6	193.4	---	2.296	7.27	0.430	62.1	245.6	7.0	0.396
4-4690	4-5030	0.738	175.4	4.6	2.05	1.131	49.2	0.686	1.379	113.1	195.4	---	2.326	7.11	0.450	61.7	248.5	7.2	0.393
4-4690	4-5050	0.705	177.2	2.9	1.25	1.139	51.3	0.666	1.414	108.5	197.2	---	2.356	7.05	0.466	61.6	251.7	7.4	0.390
4-4690	4-5070	0.673	178.9	1.2	0.46	1.147	53.4	0.647	1.449	103.9	199.0	---	2.387	7.08	0.481	61.6	255.2	7.7	0.387
4-4690	4-5090	0.641	180.5	-0.8	-0.34	1.154	55.4	0.629	1.485	99.2	200.6	---	2.419	7.19	0.493	61.7	258.9	8.1	0.384
4-4690	4-5110	0.611	182.1	-2.9	-1.16	1.160	57.3	0.613	1.519	94.5	202.2	---	2.450	7.40	0.504	61.9	262.9	8.6	0.381
4-4690	4-5130	0.582	183.6	-5.4	-2.04	1.167	59.2	0.597	1.554	89.8	203.7	---	2.482	7.71	0.513	62.1	286.9	9.3	0.378
4-4690	4-5150	0.554	184.9	-8.2	-2.99	1.173	61.0	0.583	1.588	85.1	205.0	---	2.515	8.14	0.520	62.3	271.2	10.0	0.376
4-4690	4-5170	0.529	186.2	-11.4	-4.05	1.178	62.8	0.571	1.621	80.4	206.3	---	2.547	8.72	0.526	62.6	275.5	10.9	0.373
4-4690	4-5190	0.506	187.1	-15.3	-5.26	1.183	64.5	0.560	1.654	75.7	207.5	---	2.580	9.48	0.531	62.8	279.9	12.1	0.372
4-4690	4-5210	0.486	187.7	-19.8	-6.70	1.188	66.2	0.550	1.686	71.0	208.6	---	2.613	10.49	0.535	63.0	284.5	13.5	0.371
4-4690	4-5230	0.471	187.5	-25.3	-8.46	1.193	67.8	0.541	1.718	66.3	209.6	---	2.647	11.85	0.538	63.2	289.2	15.4	0.372
4-4690	4-5250	0.465	186.2	-31.9	-10.72	1.197	69.4	0.534	1.748	61.7	210.6	---	2.681	13.73	0.541	63.3	294.1	17.8	0.375
4-4690	4-5270	0.473	182.7	-39.7	-13.77	1.201	71.0	0.528	1.778	57.2	211.5	---	2.716	16.42	0.543	63.4	299.4	21.1	0.382
4-4690	4-5290	0.507	174.7	-48.2	-18.21	1.205	72.4	0.523	1.807	52.8	212.3	---	2.751	20.50	0.545	63.4	305.4	25.4	0.397
4-4690	4-5310	0.592	158.1	-55.1	-25.28	1.208	73.8	0.519	1.835	48.6	213.1	---	2.787	27.23	0.546	63.4	313.0	31.2	0.431
4-4690	4-5330	0.783	132.2	-54.9	-38.01	1.211	75.0	0.517	1.862	44.9	213.8	---	2.825	39.63	0.547	63.2	324.4	37.8	0.508
4-4700	4-4840	1.290	161.9	14.2	31.85	1.067	14.0	0.971	1.164	164.0	177.2	---	---	32.69	0.215	146.9	243.6	5.7	0.638
4-4700	4-4860	1.211	164.1	13.0	21.39	1.057	18.3	0.950	1.135	159.5	178.3	---	---	22.63	0.174	119.5	241.8	5.8	0.574
4-4700	4-4880	1.145	166.3	11.7	15.61	1.057	22.3	0.926	1.133	155.0	179.7	---	---	17.25	0.184	93.7	240.5	5.9	0.530
4-4700	4-4900	1.088	168.4	10.5	11.94	1.061	26.0	0.901	1.146	150.5	181.4	---	2.178	14.00	0.219	77.7	239.7	5.9	0.500
4-4700	4-4920	1.038	170.4	9.3	9.37	1.069	29.3	0.875	1.167	146.1	183.2	---	2.188	11.86	0.260	68.8	239.7	6.0	0.478
4-4700	4-4940	0.992	172.4	8.0	7.44	1.078	32.5	0.848	1.194	141.7	185.1	---	2.204	10.39	0.299	63.9	240.3	6.0	0.463
4-4700	4-4960	0.948	174.3	6.7	5.91	1.087	35.4	0.822	1.224	137.2	187.1	---	2.230	9.34	0.334	61.1	241.5	6.0	0.451
4-4700	4-4980	0.908	176.2	5.4	4.65	1.097	38.1	0.797	1.257	132.8	189.1	---	2.258	8.58	0.366	59.5	243.2	6.1	0.442
4-4700	4-5000	0.869	178.1	4.1	3.56	1.106	40.7	0.772	1.291	128.3	191.0	---	2.287	8.03	0.393	58.6	245.5	6.2	0.435
4-4700	4-5020	0.831	179.9	2.6	2.59	1.116	43.2	0.748	1.326	123.8	193.0	---	2.318	7.63	0.417	58.3	248.2	6.3	0.429
4-4700	4-5040	0.795	181.7	1.1	1.70	1.125	45.6	0.725	1.362	119.2	194.8	---	2.350	7.36	0.438	58.2	251.2	6.5	0.423
4-4700	4-5060	0.760	183.4	-0.4	0.87	1.133	47.9	0.703	1.399	114.6	196.7	---	2.382	7.20	0.456	58.3	254.5	6.7	0.418
4-4700	4-5080	0.726	185.1	-2.1	0.07	1.141	50.1	0.682	1.435	110.0	198.4	---	2.415	7.13	0.472	58.6	258.1	7.0	0.413
4-4700	4-5100	0.693	186.7	-3.9	-0.72	1.149	52.2	0.663	1.472	105.4	200.0	---	2.447	7.15	0.485	58.9	261.9	7.3	0.408
4-4700	4-5120	0.662	188.3	-5.9	-1.52	1.156	54.3	0.645	1.508	100.7	201.6	---	2.480	7.26	0.496	59.3	265.8	7.7	0.403
4-4700	4-5140	0.632	189.9	-8.1	-2.33	1.162	56.2	0.628	1.544	96.0	203.1	---	2.513	7.46	0.505	59.8	269.9	8.2	0.399
4-4700	4-5160	0.603	191.3	-10.6	-3.20	1.169	58.1	0.613	1.579	91.3	204.5	---	2.546	7.76	0.513	60.2	274.1	8.8	0.394
4-4700	4-5180	0.576	192.7	-13.4	-4.12	1.174	60.0	0.599	1.614	86.7	205.7	---	2.579	8.16	0.520	60.6	278.4	9.5	0.390
4-4700	4-5200	0.550	193.8	-16.5	-5.15	1.180	61.8	0.586	1.648	82.0	206.9	---	2.613	8.71	0.525	60.9	282.8	10.4	0.387
4-4700	4-5220	0.527	194.8	-20.2	-6.31	1.185	63.5	0.574	1.681	77.4	208.1	---	2.646	9.42	0.530	61.3	287.3	11.5	0.383
4-4700	4-5240	0.508	195.4	-24.5	-7.67	1.190	65.2	0.564	1.713	72.8	209.1	---	2.680	10.36	0.534	61.6	291.8	12.8	0.381
4-4700	4-5260	0.493	195.4	-29.5	-9.31	1.194	66.9	0.555	1.745	68.2	210.1	---	2.714	11.60	0.537	61.8	296.5	14.5	0.380

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

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPARTURE PLANET= EARTH
ARRIVAL PLANET= VESTA

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THBT1	THBT2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED
4-4700	4-5280	0.486	194.3	-35.5	-11.38	1.198	68.4	0.548	1.776	63.7	211.0	---	2.748	13.29	0.539	62.0	301.3	16.7	0.381
4-4700	4-5300	0.491	191.4	-42.4	-14.09	1.202	70.0	0.541	1.806	59.3	211.9	---	2.782	15.64	0.541	62.1	306.4	19.6	0.385
4-4700	4-5320	0.516	184.8	-50.0	-17.90	1.206	71.5	0.536	1.835	55.0	212.7	---	2.817	19.10	0.543	62.2	312.0	23.4	0.395
4-4700	4-5340	0.578	170.9	-56.9	-23.67	1.209	72.9	0.532	1.863	50.8	213.4	---	2.853	24.54	0.544	62.2	318.8	28.5	0.419
4-4700	4-5360	0.715	147.0	-58.8	-33.40	1.212	74.1	0.529	1.890	47.0	214.2	---	2.890	33.93	0.545	62.2	328.1	34.8	0.471

DEPART	ARRIVE	SPEED	R A	DECL	I 1	V 1	PSI 1	ECCEN	SMA	THBT1	THET2	PERIH	APHEL	I 2	V 2	PSI 2	R A	DECL	SPEED

SECTION 4

PLANETARY POSITION AND VELOCITY DATA

EARTH POSITION AND VELOCITY DATA

FOR THE YEARS 1969-2000

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

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

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

JULIAN DATE	HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG)	LATITUDE B (DEG)	RADIUS R (AU)	CARTESIAN COORDINATES X (AU)	Y (AU)	Z (AU)	HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS)	VY (EMOS)	VZ (EMOS)	COMM DIST D (AU)	JULIAN DATE
244											244
2420.5	106.73	-0.00	0.9833	-0.2830	0.9417	-0.0001	-0.9742	-0.2914	0.0000	0.	2420.5
2430.5	116.92	-0.00	0.9838	-0.4453	0.8772	-0.0000	-0.9081	-0.4563	0.0000	0.	2430.5
2440.5	127.09	-0.00	0.9848	-0.5939	0.7856	-0.0000	-0.8142	-0.6066	0.0000	0.	2440.5
2450.5	137.24	-0.00	0.9862	-0.7240	0.6696	-0.0000	-0.6954	-0.7378	0.0000	0.	2450.5
2460.5	147.35	-0.00	0.9881	-0.8319	0.5331	-0.0000	-0.5559	-0.8456	0.0001	0.	2460.5
2470.5	157.42	-0.00	0.9903	-0.9144	0.3802	-0.0000	-0.4004	-0.9270	0.0001	0.	2470.5
2480.5	167.45	-0.00	0.9928	-0.9690	0.2158	-0.0000	-0.2338	-0.9797	0.0001	0.	2480.5
2490.5	177.42	0.00	0.9955	-0.9945	0.0449	0.0000	-0.0614	-1.0026	0.0001	0.	2490.5
2500.5	187.33	0.00	0.9983	-0.9902	-0.1274	0.0000	0.1113	-0.9955	0.0001	0.	2500.5
2510.5	197.19	0.00	1.0012	-0.9565	-0.2959	0.0000	0.2793	-0.9590	0.0001	0.	2510.5
2520.5	207.00	0.00	1.0040	-0.8946	-0.4558	0.0000	0.4376	-0.8947	0.0000	0.	2520.5
2530.5	216.75	0.00	1.0067	-0.8067	-0.6023	0.0000	0.5820	-0.8049	0.0000	0.	2530.5
2540.5	226.44	0.00	1.0092	-0.6954	-0.7314	0.0000	0.7085	-0.6927	0.0000	0.	2540.5
2550.5	236.10	0.00	1.0115	-0.5642	-0.8395	0.0001	0.8138	-0.5614	0.0000	0.	2550.5
2560.5	245.71	0.00	1.0133	-0.4168	-0.9237	0.0001	0.8953	-0.4149	0.0000	0.	2560.5
2570.5	255.29	0.00	1.0149	-0.2576	-0.9816	0.0001	0.9510	-0.2574	0.0000	0.	2570.5
2580.5	264.85	0.00	1.0159	-0.0912	-1.0118	0.0001	0.9798	-0.0933	-0.0000	0.	2580.5
2590.5	274.39	0.00	1.0166	0.0779	-1.0136	0.0001	0.9809	0.0731	-0.0000	0.	2590.5
2600.5	283.93	0.00	1.0167	0.2447	-0.9868	0.0001	0.9544	0.2372	-0.0000	0.	2600.5
2610.5	293.46	0.00	1.0164	0.4047	-0.9323	0.0001	0.9011	0.3947	-0.0000	0.	2610.5
2620.5	303.01	0.00	1.0156	0.5533	-0.8517	0.0000	0.8224	0.5413	-0.0000	0.	2620.5
2630.5	312.57	0.00	1.0143	0.6863	-0.7470	0.0000	0.7202	0.6731	-0.0000	0.	2630.5
2640.5	322.17	0.00	1.0127	0.7998	-0.6211	0.0000	0.5971	0.7864	-0.0000	0.	2640.5
2650.5	331.80	0.00	1.0107	0.8907	-0.4777	0.0000	0.4563	0.8779	-0.0001	0.	2650.5
2660.5	341.47	0.00	1.0083	0.9560	-0.3205	0.0000	0.3016	0.9447	-0.0001	0.	2660.5
2670.5	351.18	0.00	1.0057	0.9939	-0.1542	0.0000	0.1370	0.9848	-0.0001	0.	2670.5
2680.5	0.95	-0.00	1.0030	1.0028	0.0167	-0.0000	-0.0330	0.9965	-0.0001	0.	2680.5
2690.5	10.78	-0.00	1.0001	0.9825	0.1870	-0.0000	-0.2033	0.9790	-0.0001	0.	2690.5
2700.5	20.66	-0.00	0.9973	0.9331	0.3518	-0.0000	-0.3692	0.9323	-0.0001	0.	2700.5
2710.5	30.59	-0.00	0.9945	0.8560	0.5061	-0.0000	-0.5254	0.8574	-0.0000	0.	2710.5
2720.5	40.59	-0.00	0.9918	0.7532	0.6453	-0.0000	-0.6670	0.7560	-0.0000	0.	2720.5
2730.5	50.63	-0.00	0.9894	0.6277	0.7649	-0.0000	-0.7895	0.6309	-0.0000	0.	2730.5
2740.5	60.72	-0.00	0.9873	0.4830	0.8612	-0.0001	-0.8887	0.4857	-0.0000	0.	2740.5
2750.5	70.84	-0.00	0.9856	0.3234	0.9311	-0.0001	-0.9611	0.3247	-0.0000	0.	2750.5
2760.5	81.00	-0.00	0.9844	0.1540	0.9723	-0.0001	-1.0042	0.1529	-0.0000	0.	2760.5
2770.5	91.18	-0.00	0.9836	-0.0203	0.9834	-0.0001	-1.0163	-0.0241	0.0000	0.	2770.5
2780.5	101.37	-0.00	0.9833	-0.1939	0.9640	-0.0001	-0.9969	-0.2007	0.0000	0.	2780.5
2790.5	111.56	-0.00	0.9835	-0.3614	0.9147	-0.0001	-0.9465	-0.3711	0.0000	0.	2790.5
2800.5	121.74	-0.00	0.9842	-0.5178	0.8370	-0.0000	-0.8669	-0.5297	0.0000	0.	2800.5
2810.5	131.90	-0.00	0.9854	-0.6582	0.7334	-0.0000	-0.7607	-0.6715	0.0000	0.	2810.5
2820.5	142.04	-0.00	0.9871	-0.7782	0.6072	-0.0000	-0.6316	-0.7920	0.0001	0.	2820.5
2830.5	152.13	-0.00	0.9891	-0.8744	0.4623	-0.0000	-0.4838	-0.8877	0.0001	0.	2830.5
2840.5	162.18	-0.00	0.9914	-0.9439	0.3034	-0.0000	-0.3224	-0.9557	0.0001	0.	2840.5
2850.5	172.18	-0.00	0.9940	-0.9848	0.1352	-0.0000	-0.1524	-0.9944	0.0001	0.	2850.5
2860.5	182.13	0.00	0.9968	-0.9961	-0.0370	0.0000	0.0208	-1.0030	0.0001	0.	2860.5
2870.5	192.02	0.00	0.9997	-0.9778	-0.2081	0.0000	0.1919	-0.9817	0.0001	0.	2870.5
2880.5	201.85	0.00	1.0025	-0.9305	-0.3731	0.0000	0.3559	-0.9318	0.0001	0.	2880.5
2890.5	211.63	0.00	1.0053	-0.8560	-0.5272	0.0000	0.5081	-0.8551	0.0000	0.	2890.5
2900.5	221.35	0.00	1.0079	-0.7566	-0.6659	0.0000	0.6444	-0.7543	0.0000	0.	2900.5
2910.5	231.03	0.00	1.0103	-0.6354	-0.7855	0.0001	0.7612	-0.6325	0.0000	0.	2910.5
2920.5	240.66	0.00	1.0124	-0.4960	-0.8826	0.0001	0.8555	-0.4935	0.0000	0.	2920.5
2930.5	250.26	0.00	1.0141	-0.3425	-0.9545	0.0001	0.9250	-0.3413	0.0000	0.	2930.5
2940.5	259.83	0.00	1.0154	-0.1793	-0.9995	0.0001	0.9681	-0.1801	0.0000	0.	2940.5
2950.5	269.38	0.00	1.0163	-0.0110	-1.0162	0.0001	0.9837	-0.0144	-0.0000	0.	2950.5
2960.5	278.92	0.00	1.0167	0.1576	-1.0044	0.0001	0.9717	0.1515	-0.0000	0.	2960.5
2970.5	288.45	0.00	1.0166	0.3217	-0.9644	0.0001	0.9324	0.3130	-0.0000	0.	2970.5
2980.5	297.99	0.00	1.0161	0.4768	-0.8972	0.0001	0.8668	0.4659	-0.0000	0.	2980.5
2990.5	307.54	0.00	1.0151	0.6185	-0.8048	0.0000	0.7767	0.6059	-0.0000	0.	2990.5
3000.5	317.12	0.00	1.0136	0.7428	-0.6897	0.0000	0.6642	0.7294	-0.0000	0.	3000.5
3010.5	326.73	0.00	1.0118	0.8459	-0.5550	0.0000	0.5323	0.8327	-0.0001	0.	3010.5
3020.5	336.38	0.00	1.0096	0.9250	-0.4046	0.0000	0.3844	0.9128	-0.0001	0.	3020.5
3030.5	346.07	0.00	1.0071	0.9775	-0.2425	0.0000	0.2244	0.9672	-0.0001	0.	3030.5
3040.5	355.81	-0.00	1.0044	1.0018	-0.0734	-0.0000	0.0567	0.9939	-0.0001	0.	3040.5
3050.5	5.60	-0.00	1.0016	0.9968	0.0978	-0.0000	-0.1140	0.9918	-0.0001	0.	3050.5
3060.5	15.46	-0.00	0.9988	0.9626	0.2662	-0.0000	-0.2829	0.9604	-0.0001	0.	3060.5
3070.5	25.36	-0.00	0.9959	0.8999	0.4266	-0.0000	-0.4448	0.9002	-0.0001	0.	3070.5
3080.5	35.33	-0.00	0.9932	0.8103	0.5743	-0.0000	-0.5947	0.8125	-0.0000	0.	3080.5
3090.5	45.34	-0.00	0.9907	0.6963	0.7047	-0.0000	-0.7278	0.6994	-0.0000	0.	3090.5
3100.5	55.41	-0.00	0.9884	0.5611	0.8137	-0.0001	-0.8397	0.5643	-0.0000	0.	3100.5
3110.5	65.52	-0.00	0.9865	0.4089	0.8978	-0.0001	-0.9265	0.4110	-0.0000	0.	3110.5
3120.5	75.66	-0.00	0.9850	0.2440	0.9543	-0.0001	-0.9853	0.2442	-0.0000	0.	3120.5
3130.5	85.83	-0.00	0.9839	0.0716	0.9813	-0.0001	-1.0138	0.0693	0.0000	0.	3130.5
3140.5	96.01	-0.00	0.9834	-0.1030	0.9780	-0.0001	-1.0110	-0.1083	0.0000	0.	3140.5
244											244

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

JULIAN DATE	HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG)	LATITUDE B (DEG)	RADIUS R (AU)	CARTESIAN COORDINATES X (AU)	Y (AU)	Z (AU)	HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS)	VY (EMOS)	VZ (EMOS)	COMM DIST D (AU)	JULIAN DATE
244											244
3880.5	105.68	-0.00	0.9833	-0.2658	0.9467	-0.0001	-0.9793	-0.2739	0.0000	0.	3880.5
3890.5	115.87	-0.00	0.9837	-0.4292	0.8852	-0.0001	-0.9163	-0.4399	0.0000	0.	3890.5
3900.5	126.05	-0.00	0.9847	-0.5794	0.7962	-0.0000	-0.8250	-0.5920	0.0000	0.	3900.5
3910.5	136.20	-0.00	0.9861	-0.7116	0.6825	-0.0000	-0.7086	-0.7253	0.0001	0.	3910.5
3920.5	146.31	-0.00	0.9879	-0.8220	0.5479	-0.0000	-0.5711	-0.8357	0.0001	0.	3920.5
3930.5	156.39	-0.00	0.9900	-0.9072	0.3965	-0.0000	-0.4169	-0.9199	0.0001	0.	3930.5
3940.5	166.42	-0.00	0.9925	-0.9648	0.2331	-0.0000	-0.2512	-0.9757	0.0001	0.	3940.5
3950.5	176.40	0.00	0.9952	-0.9932	0.0626	0.0000	-0.0792	-1.0017	0.0001	0.	3950.5
3960.5	186.32	0.00	0.9980	-0.9920	-0.1098	0.0000	0.0937	-0.9976	0.0001	0.	3960.5
3970.5	196.18	0.00	1.0009	-0.9612	-0.2790	0.0000	0.2624	-0.9640	0.0001	0.	3970.5
3980.5	205.99	0.00	1.0037	-0.9022	-0.4399	0.0000	0.4220	-0.9025	0.0001	0.	3980.5
3990.5	215.75	0.00	1.0064	-0.8168	-0.5880	0.0000	0.5680	-0.8152	0.0001	0.	3990.5
4000.5	225.45	0.00	1.0090	-0.7078	-0.7191	0.0001	0.6964	-0.7051	0.0000	0.	4000.5
4010.5	235.11	0.00	1.0112	-0.5784	-0.8295	0.0001	0.8040	-0.5756	0.0000	0.	4010.5
4020.5	244.73	0.00	1.0132	-0.4325	-0.9162	0.0001	0.8881	-0.4305	0.0000	0.	4020.5
4030.5	254.31	0.00	1.0147	-0.2744	-0.9769	0.0001	0.9465	-0.2739	0.0000	0.	4030.5
4040.5	263.87	0.00	1.0158	-0.1084	-1.0100	0.0001	0.9781	-0.1103	0.0000	0.	4040.5
4050.5	273.42	0.00	1.0165	0.0606	-1.0147	0.0001	0.9820	0.0561	-0.0000	0.	4050.5
4060.5	282.95	0.00	1.0167	0.2278	-0.9909	0.0001	0.9584	0.2206	-0.0000	0.	4060.5
4070.5	292.48	0.00	1.0164	0.3887	-0.9392	0.0001	0.9078	0.3790	-0.0000	0.	4070.5
4080.5	302.03	0.00	1.0157	0.5387	-0.8611	0.0001	0.8315	0.5269	-0.0000	0.	4080.5
4090.5	311.59	0.00	1.0145	0.6735	-0.7587	0.0000	0.7316	0.6604	-0.0000	0.	4090.5
4100.5	321.18	0.00	1.0129	0.7892	-0.6349	0.0000	0.6106	0.7757	-0.0001	0.	4100.5
4110.5	330.81	0.00	1.0109	0.8825	-0.4931	0.0000	0.4715	0.8696	-0.0001	0.	4110.5
4120.5	340.47	0.00	1.0086	0.9506	-0.3371	0.0000	0.3180	0.9391	-0.0001	0.	4120.5
4130.5	350.18	0.00	1.0060	0.9913	-0.1715	0.0000	0.1542	0.9820	-0.0001	0.	4130.5
4140.5	359.95	-0.00	1.0033	1.0033	-0.0009	-0.0000	-0.0154	0.9966	-0.0001	0.	4140.5
4150.5	9.77	-0.00	1.0004	0.9859	0.1697	-0.0000	-0.1860	0.9821	-0.0001	0.	4150.5
4160.5	19.64	-0.00	0.9976	0.9395	0.3353	-0.0000	-0.3525	0.9384	-0.0001	0.	4160.5
4170.5	29.57	-0.00	0.9947	0.8652	0.4909	-0.0000	-0.5099	0.8663	-0.0001	0.	4170.5
4180.5	39.56	-0.00	0.9921	0.7649	0.6318	-0.0000	-0.6533	0.7676	-0.0000	0.	4180.5
4190.5	49.60	-0.00	0.9897	0.6415	0.7536	-0.0001	-0.7779	0.6447	-0.0000	0.	4190.5
4200.5	59.68	-0.00	0.9875	0.4986	0.8525	-0.0001	-0.8797	0.5014	-0.0000	0.	4200.5
4210.5	69.80	-0.00	0.9858	0.3404	0.9252	-0.0001	-0.9550	0.3418	-0.0000	0.	4210.5
4220.5	79.96	-0.00	0.9845	0.1717	0.9694	-0.0001	-1.0012	0.1709	-0.0000	0.	4220.5
4230.5	90.13	-0.00	0.9836	-0.0023	0.9836	-0.0001	-1.0165	-0.0059	0.0000	0.	4230.5
4240.5	100.32	-0.00	0.9833	-0.1762	0.9674	-0.0001	-1.0003	-0.1828	0.0000	0.	4240.5
4250.5	110.52	-0.00	0.9835	-0.3447	0.9211	-0.0001	-0.9530	-0.3540	0.0000	0.	4250.5
4260.5	120.70	-0.00	0.9841	-0.5024	0.8462	-0.0001	-0.8763	-0.5141	0.0000	0.	4260.5
4270.5	130.86	-0.00	0.9853	-0.6446	0.7451	-0.0000	-0.7727	-0.6579	0.0001	0.	4270.5
4280.5	141.00	-0.00	0.9869	-0.7669	0.6211	-0.0000	-0.6458	-0.7808	0.0001	0.	4280.5
4290.5	151.10	-0.00	0.9889	-0.8657	0.4779	-0.0000	-0.4997	-0.8791	0.0001	0.	4290.5
4300.5	161.15	-0.00	0.9912	-0.9380	0.3202	-0.0000	-0.3396	-0.9500	0.0001	0.	4300.5
4310.5	171.16	-0.00	0.9938	-0.9820	0.1527	-0.0000	-0.1701	-0.9918	0.0001	0.	4310.5
4320.5	181.11	0.00	0.9965	-0.9963	-0.0193	0.0000	0.0030	-1.0035	0.0001	0.	4320.5
4330.5	191.01	0.00	0.9994	-0.9810	-0.1908	0.0000	0.1746	-0.9853	0.0001	0.	4330.5
4340.5	200.84	0.00	1.0022	-0.9367	-0.3566	0.0000	0.3395	-0.9382	0.0001	0.	4340.5
4350.5	210.63	0.00	1.0050	-0.8648	-0.5120	0.0000	0.4932	-0.8642	0.0001	0.	4350.5
4360.5	220.36	0.00	1.0077	-0.7679	-0.6525	0.0001	0.6313	-0.7657	0.0000	0.	4360.5
4370.5	230.04	0.00	1.0101	-0.6487	-0.7742	0.0001	0.7502	-0.6459	0.0000	0.	4370.5
4380.5	239.68	0.00	1.0122	-0.5110	-0.8737	0.0001	0.8470	-0.5085	0.0000	0.	4380.5
4390.5	249.28	0.00	1.0140	-0.3588	-0.9484	0.0001	0.9191	-0.3574	0.0000	0.	4390.5
4400.5	258.85	0.00	1.0153	-0.1963	-0.9961	0.0001	0.9649	-0.1969	0.0000	0.	4400.5
4410.5	268.40	0.00	1.0162	-0.0284	-1.0158	0.0001	0.9834	-0.0314	-0.0000	0.	4410.5
4420.5	277.94	0.00	1.0167	0.1404	-1.0069	0.0001	0.9742	0.1346	-0.0000	0.	4420.5
4430.5	287.47	0.00	1.0166	0.3052	-0.9697	0.0001	0.9377	0.2968	-0.0000	0.	4430.5
4440.5	297.01	0.00	1.0161	0.4615	-0.9053	0.0001	0.8747	0.4507	-0.0000	0.	4440.5
4450.5	306.56	0.00	1.0152	0.6048	-0.8154	0.0001	0.7870	0.5923	-0.0000	0.	4450.5
4460.5	316.14	0.00	1.0138	0.7309	-0.7025	0.0000	0.6767	0.7176	-0.0001	0.	4460.5
4470.5	325.74	0.00	1.0120	0.8364	-0.5696	0.0000	0.5466	0.8231	-0.0001	0.	4470.5
4480.5	335.39	0.00	1.0098	0.9181	-0.4206	0.0000	0.4002	0.9057	-0.0001	0.	4480.5
4490.5	345.07	0.00	1.0074	0.9734	-0.2595	0.0000	0.2413	0.9629	-0.0001	0.	4490.5
4500.5	354.81	-0.00	1.0047	1.0006	-0.0909	-0.0000	0.0741	0.9925	-0.0001	0.	4500.5
4510.5	4.60	-0.00	1.0019	0.9987	0.0803	-0.0000	-0.0965	0.9934	-0.0001	0.	4510.5
4520.5	14.44	-0.00	0.9991	0.9675	0.2492	-0.0000	-0.2658	0.9650	-0.0001	0.	4520.5
4530.5	24.34	-0.00	0.9962	0.9076	0.4107	-0.0000	-0.4286	0.9077	-0.0001	0.	4530.5
4540.5	34.30	-0.00	0.9935	0.8207	0.5599	-0.0000	-0.5800	0.8227	-0.0001	0.	4540.5
4550.5	44.31	-0.00	0.9909	0.7090	0.6922	-0.0001	-0.7150	0.7121	-0.0000	0.	4550.5
4560.5	54.37	-0.00	0.9886	0.5759	0.8036	-0.0001	-0.8293	0.5791	-0.0000	0.	4560.5
4570.5	64.48	-0.00	0.9867	0.4251	0.8904	-0.0001	-0.9189	0.4274	-0.0000	0.	4570.5
4580.5	74.62	-0.00	0.9851	0.2613	0.9498	-0.0001	-0.9806	0.2618	-0.0000	0.	4580.5
4590.5	84.78	-0.00	0.9840	0.0895	0.9799	-0.0001	-1.0123	0.0874	0.0000	0.	4590.5
4600.5	94.97	-0.00	0.9834	-0.0851	0.9797	-0.0001	-1.0127	-0.0901	0.0000	0.	4600.5
244											244

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

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

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1985 - 1986
244 6070.5 - 244 6790.5

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

JULIAN DATE	HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG)	LATITUDE B (DEG)	RADIUS R (AU)	CARTESIAN COORDINATES X (AU)	Y (AU)	Z (AU)	HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS)	VY (EMOS)	VZ (EMOS)	COMM DIST D (AU)	JULIAN DATE
244											244
6800.5	103.59	-0.00	0.9833	-0.2311	0.9558	-0.0001	-0.9885	-0.2385	0.0000	0.	6800.5
6810.5	113.78	-0.00	0.9836	-0.3966	0.9001	-0.0001	-0.9316	-0.4068	0.0000	0.	6810.5
6820.5	123.96	-0.00	0.9844	-0.5499	0.8165	-0.0001	-0.8459	-0.5622	0.0001	0.	6820.5
6830.5	134.11	-0.00	0.9857	-0.6862	0.7077	-0.0001	-0.7344	-0.6997	0.0001	0.	6830.5
6840.5	144.24	-0.00	0.9875	-0.8013	0.5771	-0.0000	-0.6008	-0.8151	0.0001	0.	6840.5
6850.5	154.33	-0.00	0.9896	-0.8919	0.4287	-0.0000	-0.4497	-0.9049	0.0001	0.	6850.5
6860.5	164.36	-0.00	0.9920	-0.9553	0.2673	-0.0000	-0.2859	-0.9667	0.0001	0.	6860.5
6870.5	174.35	0.00	0.9946	-0.9898	0.0979	0.0000	-0.1147	-0.9988	0.0001	0.	6870.5
6880.5	184.29	0.00	0.9974	-0.9946	-0.0746	0.0000	0.0584	-1.0009	0.0001	0.	6880.5
6890.5	194.16	0.00	1.0003	-0.9699	-0.2448	0.0000	0.2284	-0.9733	0.0001	0.	6890.5
6900.5	203.99	0.00	1.0031	-0.9165	-0.4078	0.0000	0.3902	-0.9173	0.0001	0.	6900.5
6910.5	213.75	0.00	1.0059	-0.8364	-0.5589	0.0001	0.5393	-0.8351	0.0001	0.	6910.5
6920.5	223.47	0.00	1.0085	-0.7319	-0.6937	0.0001	0.6717	-0.7294	0.0001	0.	6920.5
6930.5	233.13	0.00	1.0108	-0.6064	-0.8087	0.0001	0.7838	-0.6036	0.0000	0.	6930.5
6940.5	242.76	0.00	1.0128	-0.4636	-0.9005	0.0001	0.8729	-0.4613	0.0000	0.	6940.5
6950.5	252.35	0.00	1.0144	-0.3076	-0.9667	0.0001	0.9367	-0.3068	0.0000	0.	6950.5
6960.5	261.91	0.00	1.0156	-0.1429	-1.0055	0.0001	0.9739	-0.1442	0.0000	0.	6960.5
6970.5	271.46	0.00	1.0164	0.0259	-1.0161	0.0001	0.9835	0.0219	-0.0000	0.	6970.5
6980.5	280.99	0.00	1.0167	0.1939	-0.9980	0.0001	0.9654	0.1872	-0.0000	0.	6980.5
6990.5	290.53	0.00	1.0165	0.3565	-0.9520	0.0001	0.9203	0.3472	-0.0000	0.	6990.5
7000.5	300.07	0.00	1.0159	0.5090	-0.8791	0.0001	0.8492	0.4976	-0.0000	0.	7000.5
7010.5	309.63	0.00	1.0148	0.6473	-0.7816	0.0001	0.7539	0.6344	-0.0001	0.	7010.5
7020.5	319.21	0.00	1.0132	0.7672	-0.6619	0.0001	0.6370	0.7537	-0.0001	0.	7020.5
7030.5	328.83	0.00	1.0113	0.8653	-0.5234	0.0000	0.5013	0.8522	-0.0001	0.	7030.5
7040.5	338.49	0.00	1.0091	0.9388	-0.3701	0.0000	0.3504	0.9269	-0.0001	0.	7040.5
7050.5	348.19	0.00	1.0066	0.9853	-0.2060	0.0000	0.1884	0.9754	-0.0001	0.	7050.5
7060.5	357.94	-0.00	1.0039	1.0032	-0.0361	-0.0000	0.0196	0.9960	-0.0001	0.	7060.5
7070.5	7.75	-0.00	1.0010	0.9919	0.1349	-0.0000	-0.1512	0.9875	-0.0001	0.	7070.5
7080.5	17.61	-0.00	0.9981	0.9514	0.3020	-0.0000	-0.3189	0.9497	-0.0001	0.	7080.5
7090.5	27.53	-0.00	0.9953	0.8826	0.4601	-0.0000	-0.4786	0.8834	-0.0001	0.	7090.5
7100.5	37.50	-0.00	0.9926	0.7875	0.6043	-0.0001	-0.6253	0.7899	-0.0001	0.	7100.5
7110.5	47.53	-0.00	0.9902	0.6685	0.7304	-0.0001	-0.7541	0.6717	-0.0001	0.	7110.5
7120.5	57.61	-0.00	0.9880	0.5293	0.8342	-0.0001	-0.8608	0.5323	-0.0000	0.	7120.5
7130.5	67.72	-0.00	0.9861	0.3738	0.9125	-0.0001	-0.9418	0.3756	-0.0000	0.	7130.5
7140.5	77.87	-0.00	0.9847	0.2069	0.9627	-0.0001	-0.9942	0.2066	-0.0000	0.	7140.5
7150.5	88.04	-0.00	0.9838	0.0336	0.9832	-0.0001	-1.0159	0.0306	0.0000	0.	7150.5
7160.5	98.23	-0.00	0.9833	-0.1408	0.9732	-0.0001	-1.0062	-0.1467	0.0000	0.	7160.5
7170.5	108.43	-0.00	0.9834	-0.3108	0.9330	-0.0001	-0.9652	-0.3196	0.0000	0.	7170.5
7180.5	118.61	-0.00	0.9839	-0.4712	0.8638	-0.0001	-0.8944	-0.4825	0.0000	0.	7180.5
7190.5	128.78	-0.00	0.9850	-0.6169	0.7679	-0.0001	-0.7960	-0.6299	0.0001	0.	7190.5
7200.5	138.92	-0.00	0.9865	-0.7436	0.6482	-0.0000	-0.6735	-0.7575	0.0001	0.	7200.5
7210.5	149.03	-0.00	0.9884	-0.8475	0.5086	-0.0000	-0.5310	-0.8611	0.0001	0.	7210.5
7220.5	159.09	-0.00	0.9907	-0.9255	0.3535	-0.0000	-0.3732	-0.9378	0.0001	0.	7220.5
7230.5	169.11	-0.00	0.9932	-0.9753	0.1876	-0.0000	-0.2053	-0.9857	0.0001	0.	7230.5
7240.5	179.07	0.00	0.9959	-0.9958	0.0161	-0.0000	-0.0325	-1.0035	0.0001	0.	7240.5
7250.5	188.98	0.00	0.9988	-0.9865	-0.1559	0.0000	0.1398	-0.9914	0.0001	0.	7250.5
7260.5	198.83	0.00	1.0017	-0.9480	-0.3233	0.0000	0.3065	-0.9501	0.0001	0.	7260.5
7270.5	208.62	0.00	1.0045	-0.8817	-0.4812	0.0000	0.4628	-0.8814	0.0001	0.	7270.5
7280.5	218.37	0.00	1.0071	-0.7897	-0.6251	0.0001	0.6044	-0.7877	0.0001	0.	7280.5
7290.5	228.06	0.00	1.0096	-0.6748	-0.7510	0.0001	0.7276	-0.6720	0.0001	0.	7290.5
7300.5	237.70	0.00	1.0118	-0.5406	-0.8553	0.0001	0.8291	-0.5379	0.0000	0.	7300.5
7310.5	247.31	0.00	1.0136	-0.3910	-0.9352	0.0001	0.9064	-0.3893	0.0000	0.	7310.5
7320.5	256.89	0.00	1.0151	-0.2302	-0.9886	0.0001	0.9577	-0.2304	0.0000	0.	7320.5
7330.5	266.44	0.01	1.0161	-0.0630	-1.0141	0.0001	0.9819	-0.0656	-0.0000	0.	7330.5
7340.5	275.98	0.00	1.0166	0.1060	-1.0111	0.0001	0.9784	0.1007	-0.0000	0.	7340.5
7350.5	285.52	0.00	1.0167	0.2720	-0.9796	0.0001	0.9473	0.2640	-0.0000	0.	7350.5
7360.5	295.05	0.00	1.0163	0.4304	-0.9207	0.0001	0.8897	0.4200	-0.0000	0.	7360.5
7370.5	304.60	0.00	1.0154	0.5766	-0.8358	0.0001	0.8069	0.5644	-0.0001	0.	7370.5
7380.5	314.17	0.00	1.0141	0.7067	-0.7274	0.0001	0.7010	0.6934	-0.0001	0.	7380.5
7390.5	323.77	0.00	1.0124	0.8166	-0.5983	0.0000	0.5748	0.8032	-0.0001	0.	7390.5
7400.5	333.41	0.00	1.0103	0.9034	-0.4523	0.0000	0.4314	0.8908	-0.0001	0.	7400.5
7410.5	343.08	0.00	1.0079	0.9643	-0.2933	0.0000	0.2747	0.9533	-0.0001	0.	7410.5
7420.5	352.81	0.00	1.0053	0.9974	-0.1259	0.0000	0.1089	0.9887	-0.0001	0.	7420.5
7430.5	2.59	-0.00	1.0025	1.0015	0.0452	-0.0000	-0.0615	0.9956	-0.0001	0.	7430.5
7440.5	12.42	-0.00	0.9997	0.9763	0.2150	-0.0000	-0.2314	0.9732	-0.0001	0.	7440.5
7450.5	22.31	-0.00	0.9968	0.9222	0.3784	-0.0000	-0.3960	0.9217	-0.0001	0.	7450.5
7460.5	32.26	-0.00	0.9940	0.8406	0.5305	-0.0001	-0.5501	0.8423	-0.0001	0.	7460.5
7470.5	42.26	-0.00	0.9914	0.7338	0.6667	-0.0001	-0.6889	0.7367	-0.0001	0.	7470.5
7480.5	52.31	-0.00	0.9891	0.6048	0.7826	-0.0001	-0.8077	0.6080	-0.0000	0.	7480.5
7490.5	62.40	-0.00	0.9870	0.4573	0.8747	-0.0001	-0.9027	0.4598	-0.0000	0.	7490.5
7500.5	72.53	-0.00	0.9854	0.2958	0.9400	-0.0001	-0.9704	0.2967	-0.0000	0.	7500.5
7510.5	82.69	-0.01	0.9842	0.1251	0.9762	-0.0001	-1.0084	0.1236	-0.0000	0.	7510.5
7520.5	92.88	-0.01	0.9835	-0.0494	0.9823	-0.0001	-1.0152	-0.0537	0.0000	0.	7520.5
244											244

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

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

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244 8990.5 - 244 9710.5

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

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

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

JULIAN DATE	HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG)	LATITUDE B (DEG)	RADIUS R (AU)	CARTESIAN COORDINATES X (AU)	Y (AU)	Z (AU)	HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS)	VY (EMOS)	VZ (EMOS)	COMM DIST D (AU)	JULIAN DATE
245											245
1180.5	100.45	-0.01	0.9833	-0.1784	0.9670	-0.0001	-0.9999	-0.1850	0.0000	0.	1180.5
1190.5	110.64	-0.01	0.9835	-0.3467	0.9203	-0.0001	-0.9523	-0.3562	0.0001	0.	1190.5
1200.5	120.83	-0.01	0.9841	-0.5043	0.8451	-0.0001	-0.8752	-0.5161	0.0001	0.	1200.5
1210.5	130.99	-0.00	0.9853	-0.6463	0.7437	-0.0001	-0.7712	-0.6596	0.0001	0.	1210.5
1220.5	141.13	-0.00	0.9869	-0.7683	0.6194	-0.0001	-0.6440	-0.7822	0.0001	0.	1220.5
1230.5	151.23	-0.00	0.9889	-0.8668	0.4760	-0.0000	-0.4978	-0.8802	0.0001	0.	1230.5
1240.5	161.28	-0.00	0.9912	-0.9388	0.3181	-0.0000	-0.3373	-0.9508	0.0001	0.	1240.5
1250.5	171.28	-0.00	0.9938	-0.9823	0.1506	-0.0000	-0.1679	-0.9921	0.0001	0.	1250.5
1260.5	181.24	0.00	0.9965	-0.9963	-0.0215	0.0000	0.0052	-1.0035	0.0001	0.	1260.5
1270.5	191.13	0.00	0.9994	-0.9806	-0.1929	0.0000	0.1767	-0.9849	0.0001	0.	1270.5
1280.5	200.97	0.00	1.0023	-0.9359	-0.3587	0.0001	0.3416	-0.9374	0.0001	0.	1280.5
1290.5	210.75	0.00	1.0051	-0.8637	-0.5139	0.0001	0.4951	-0.8631	0.0001	0.	1290.5
1300.5	220.48	0.00	1.0077	-0.7665	-0.6542	0.0001	0.6330	-0.7643	0.0001	0.	1300.5
1310.5	230.16	0.01	1.0101	-0.6471	-0.7756	0.0001	0.7516	-0.6442	0.0001	0.	1310.5
1320.5	239.80	0.01	1.0122	-0.5091	-0.8748	0.0001	0.8481	-0.5066	0.0000	0.	1320.5
1330.5	249.40	0.01	1.0140	-0.3567	-0.9491	0.0001	0.9199	-0.3554	0.0000	0.	1330.5
1340.5	258.97	0.01	1.0153	-0.1942	-0.9966	0.0001	0.9653	-0.1948	0.0000	0.	1340.5
1350.5	268.53	0.01	1.0162	-0.0262	-1.0159	0.0001	0.9835	-0.0293	-0.0000	0.	1350.5
1360.5	278.06	0.01	1.0167	0.1426	-1.0066	0.0001	0.9739	0.1367	-0.0000	0.	1360.5
1370.5	287.60	0.01	1.0166	0.3073	-0.9691	0.0001	0.9370	0.2988	-0.0000	0.	1370.5
1380.5	297.14	0.01	1.0161	0.4635	-0.9043	0.0001	0.8737	0.4526	-0.0001	0.	1380.5
1390.5	306.69	0.00	1.0152	0.6065	-0.8141	0.0001	0.7857	0.5940	-0.0001	0.	1390.5
1400.5	316.26	0.00	1.0138	0.7325	-0.7009	0.0001	0.6751	0.7191	-0.0001	0.	1400.5
1410.5	325.87	0.00	1.0120	0.8377	-0.5678	0.0001	0.5448	0.8243	-0.0001	0.	1410.5
1420.5	335.51	0.00	1.0098	0.9190	-0.4186	0.0000	0.3982	0.9066	-0.0001	0.	1420.5
1430.5	345.20	0.00	1.0074	0.9739	-0.2573	0.0000	0.2392	0.9634	-0.0001	0.	1430.5
1440.5	354.94	-0.00	1.0047	1.0008	-0.0887	-0.0000	0.0720	0.9927	-0.0001	0.	1440.5
1450.5	4.72	-0.00	1.0019	0.9985	0.0825	-0.0000	-0.0987	0.9932	-0.0001	0.	1450.5
1460.5	14.57	-0.00	0.9990	0.9669	0.2513	-0.0000	-0.2679	0.9644	-0.0001	0.	1460.5
1470.5	24.47	-0.00	0.9962	0.9067	0.4127	-0.0001	-0.4306	0.9067	-0.0001	0.	1470.5
1480.5	34.43	-0.00	0.9935	0.8194	0.5617	-0.0001	-0.5818	0.8214	-0.0001	0.	1480.5
1490.5	44.44	-0.01	0.9909	0.7075	0.6938	-0.0001	-0.7166	0.7105	-0.0001	0.	1490.5
1500.5	54.50	-0.01	0.9886	0.5741	0.8049	-0.0001	-0.8306	0.5772	-0.0001	0.	1500.5
1510.5	64.60	-0.01	0.9867	0.4231	0.8913	-0.0001	-0.9198	0.4254	-0.0000	0.	1510.5
1520.5	74.74	-0.01	0.9851	0.2592	0.9504	-0.0001	-0.9812	0.2596	-0.0000	0.	1520.5
1530.5	84.91	-0.01	0.9840	0.0873	0.9801	-0.0001	-1.0125	0.0852	0.0000	0.	1530.5
1540.5	95.10	-0.01	0.9834	-0.0873	0.9795	-0.0001	-1.0125	-0.0924	0.0000	0.	1540.5
1550.5	105.29	-0.01	0.9833	-0.2593	0.9485	-0.0001	-0.9811	-0.2672	0.0000	0.	1550.5
1560.5	115.48	-0.01	0.9837	-0.4231	0.8881	-0.0001	-0.9192	-0.4337	0.0001	0.	1560.5
1570.5	125.65	-0.00	0.9846	-0.5739	0.8001	-0.0001	-0.8290	-0.5865	0.0001	0.	1570.5
1580.5	135.80	-0.00	0.9860	-0.7069	0.6874	-0.0001	-0.7136	-0.7206	0.0001	0.	1580.5
1590.5	145.92	-0.00	0.9878	-0.8182	0.5535	-0.0001	-0.5767	-0.8319	0.0001	0.	1590.5
1600.5	156.00	-0.00	0.9899	-0.9044	0.4026	-0.0000	-0.4231	-0.9172	0.0001	0.	1600.5
1610.5	166.03	-0.00	0.9924	-0.9631	0.2395	-0.0000	-0.2577	-0.9741	0.0001	0.	1610.5
1620.5	176.01	0.00	0.9951	-0.9927	0.0692	0.0000	-0.0859	-1.0013	0.0001	0.	1620.5
1630.5	185.94	0.00	0.9979	-0.9925	-0.1032	0.0000	0.0871	-0.9983	0.0001	0.	1630.5
1640.5	195.80	0.00	1.0008	-0.9629	-0.2726	0.0000	0.2561	-0.9659	0.0001	0.	1640.5
1650.5	205.62	0.00	1.0036	-0.9050	-0.4339	0.0001	0.4161	-0.9054	0.0001	0.	1650.5
1660.5	215.37	0.00	1.0063	-0.8206	-0.5826	0.0001	0.5627	-0.8191	0.0001	0.	1660.5
1670.5	225.08	0.01	1.0089	-0.7124	-0.7144	0.0001	0.6919	-0.7098	0.0001	0.	1670.5
1680.5	234.74	0.01	1.0111	-0.5837	-0.8256	0.0001	0.8003	-0.5809	0.0001	0.	1680.5
1690.5	244.36	0.01	1.0131	-0.4384	-0.9133	0.0001	0.8853	-0.4363	0.0000	0.	1690.5
1700.5	253.95	0.01	1.0146	-0.2806	-0.9751	0.0001	0.9448	-0.2801	0.0000	0.	1700.5
1710.5	263.51	0.01	1.0158	-0.1149	-1.0093	0.0001	0.9774	-0.1166	0.0000	0.	1710.5
1720.5	273.05	0.01	1.0165	0.0541	-1.0150	0.0001	0.9824	0.0497	-0.0000	0.	1720.5
1730.5	282.59	0.01	1.0167	0.2215	-0.9923	0.0001	0.9598	0.2144	-0.0000	0.	1730.5
1740.5	292.12	0.01	1.0165	0.3827	-0.9416	0.0001	0.9102	0.3731	-0.0001	0.	1740.5
1750.5	301.66	0.01	1.0157	0.5332	-0.8645	0.0001	0.8349	0.5215	-0.0001	0.	1750.5
1760.5	311.23	0.00	1.0145	0.6686	-0.7630	0.0001	0.7359	0.6556	-0.0001	0.	1760.5
1770.5	320.82	0.00	1.0130	0.7852	-0.6400	0.0001	0.6156	0.7717	-0.0001	0.	1770.5
1780.5	330.44	0.00	1.0110	0.8794	-0.4988	0.0000	0.4771	0.8664	-0.0001	0.	1780.5
1790.5	340.10	0.00	1.0087	0.9485	-0.3433	0.0000	0.3241	0.9369	-0.0001	0.	1790.5
1800.5	349.81	0.00	1.0061	0.9903	-0.1780	0.0000	0.1606	0.9808	-0.0001	0.	1800.5
1810.5	359.57	-0.00	1.0034	1.0034	-0.0075	-0.0000	-0.0089	0.9966	-0.0001	0.	1810.5
1820.5	9.39	-0.00	1.0006	0.9872	0.1632	-0.0000	-0.1795	0.9832	-0.0001	0.	1820.5
1830.5	19.26	-0.00	0.9977	0.9418	0.3291	-0.0000	-0.3462	0.9406	-0.0001	0.	1830.5
1840.5	29.19	-0.00	0.9949	0.8685	0.4852	-0.0001	-0.5041	0.8696	-0.0001	0.	1840.5
1850.5	39.17	-0.00	0.9922	0.7692	0.6267	-0.0001	-0.6481	0.7718	-0.0001	0.	1850.5
1860.5	49.21	-0.01	0.9898	0.6466	0.7493	-0.0001	-0.7735	0.6499	-0.0001	0.	1860.5
1870.5	59.29	-0.01	0.9876	0.5044	0.8491	-0.0001	-0.8762	0.5072	-0.0000	0.	1870.5
1880.5	69.41	-0.01	0.9859	0.3467	0.9229	-0.0001	-0.9526	0.3482	-0.0000	0.	1880.5
1890.5	79.56	-0.01	0.9845	0.1783	0.9683	-0.0001	-0.9999	0.1776	-0.0000	0.	1890.5
1900.5	89.74	-0.01	0.9837	0.0045	0.9837	-0.0001	-1.0165	0.0010	0.0000	0.	1900.5
245											245

JUPITER POSITION AND VELOCITY DATA

FOR THE YEARS 1969-2000

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CERES POSITION AND VELOCITY DATA

FOR THE YEARS 1969-2000

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

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

JULIAN DATE	HELIOCENTRIC ECLIPTIC POSITION LONGITUDE L (DEG)	LATITUDE B (DEG)	RADIUS R (AU)	CARTESIAN COORDINATES X (AU)	Y (AU)	Z (AU)	HELIOCENTRIC ECLIPTIC VELOCITY VX (EMOS)	VY (EMOS)	VZ (EMOS)	COMM DIST D (AU)	JULIAN DATE
244											244
1690.5	218.59	7.13	2.6683	-2.0694	-1.6517	0.3313	0.3435	-0.5137	-0.0793	3.159	1690.5
1700.5	220.88	6.81	2.6756	-2.0087	-1.7387	0.3174	0.3619	-0.4984	-0.0822	3.056	1700.5
1710.5	223.15	6.48	2.6829	-1.9449	-1.8231	0.3030	0.3796	-0.4825	-0.0850	2.945	1710.5
1720.5	225.40	6.15	2.6904	-1.8781	-1.9047	0.2881	0.3966	-0.4660	-0.0876	2.827	1720.5
1730.5	227.64	5.80	2.6979	-1.8085	-1.9834	0.2728	0.4128	-0.4488	-0.0901	2.704	1730.5
1740.5	229.86	5.45	2.7056	-1.7362	-2.0591	0.2571	0.4282	-0.4312	-0.0924	2.578	1740.5
1750.5	232.07	5.10	2.7133	-1.6612	-2.1317	0.2411	0.4429	-0.4131	-0.0946	2.450	1750.5
1760.5	234.26	4.73	2.7210	-1.5838	-2.2012	0.2246	0.4568	-0.3945	-0.0966	2.324	1760.5
1770.5	236.44	4.37	2.7288	-1.5041	-2.2674	0.2078	0.4700	-0.3755	-0.0984	2.202	1770.5
1780.5	238.61	4.00	2.7367	-1.4222	-2.3303	0.1908	0.4823	-0.3561	-0.1001	2.088	1780.5
1790.5	240.75	3.62	2.7445	-1.3382	-2.3899	0.1734	0.4938	-0.3364	-0.1016	1.985	1790.5
1800.5	242.89	3.25	2.7524	-1.2523	-2.4461	0.1558	0.5046	-0.3164	-0.1030	1.898	1800.5
1810.5	245.01	2.87	2.7603	-1.1646	-2.4987	0.1380	0.5145	-0.2961	-0.1042	1.830	1810.5
1820.5	247.12	2.48	2.7681	-1.0753	-2.5479	0.1200	0.5236	-0.2755	-0.1052	1.785	1820.5
1830.5	249.21	2.10	2.7760	-0.9845	-2.5935	0.1018	0.5320	-0.2547	-0.1061	1.766	1830.5
1840.5	251.29	1.72	2.7838	-0.8924	-2.6355	0.0835	0.5395	-0.2338	-0.1069	1.774	1840.5
1850.5	253.36	1.34	2.7915	-0.7990	-2.6740	0.0651	0.5462	-0.2127	-0.1075	1.810	1850.5
1860.5	255.42	0.95	2.7992	-0.7045	-2.7087	0.0465	0.5521	-0.1915	-0.1079	1.872	1860.5
1870.5	257.47	0.57	2.8069	-0.6091	-2.7398	0.0279	0.5572	-0.1702	-0.1082	1.956	1870.5
1880.5	259.50	0.19	2.8144	-0.5128	-2.7673	0.0093	0.5616	-0.1489	-0.1083	2.058	1880.5
1890.5	261.52	-0.19	2.8219	-0.4159	-2.7911	-0.0093	0.5652	-0.1275	-0.1083	2.176	1890.5
1900.5	263.54	-0.57	2.8293	-0.3184	-2.8112	-0.0279	0.5680	-0.1062	-0.1082	2.304	1900.5
1910.5	265.54	-0.94	2.8366	-0.2205	-2.8276	-0.0465	0.5700	-0.0849	-0.1079	2.440	1910.5
1920.5	267.53	-1.31	2.8438	-0.1224	-2.8404	-0.0651	0.5713	-0.0636	-0.1075	2.580	1920.5
1930.5	269.52	-1.68	2.8508	-0.0240	-2.8495	-0.0835	0.5718	-0.0424	-0.1069	2.722	1930.5
1940.5	271.49	-2.04	2.8577	0.0743	-2.8550	-0.1018	0.5716	-0.0213	-0.1062	2.863	1940.5
1950.5	273.46	-2.40	2.8645	0.1726	-2.8568	-0.1201	0.5707	-0.0003	-0.1054	3.002	1950.5
1960.5	275.42	-2.76	2.8712	0.2706	-2.8551	-0.1381	0.5691	0.0205	-0.1045	3.135	1960.5
1970.5	277.37	-3.11	2.8777	0.3684	-2.8498	-0.1560	0.5668	0.0412	-0.1034	3.262	1970.5
1980.5	279.31	-3.45	2.8840	0.4656	-2.8409	-0.1737	0.5638	0.0617	-0.1022	3.381	1980.5
1990.5	281.24	-3.79	2.8902	0.5623	-2.8285	-0.1912	0.5601	0.0819	-0.1009	3.491	1990.5
2000.5	283.17	-4.13	2.8962	0.6583	-2.8127	-0.2084	0.5558	0.1020	-0.0995	3.589	2000.5
2010.5	285.09	-4.45	2.9021	0.7535	-2.7935	-0.2254	0.5508	0.1218	-0.0980	3.676	2010.5
2020.5	287.01	-4.78	2.9077	0.8477	-2.7708	-0.2421	0.5452	0.1413	-0.0963	3.751	2020.5
2030.5	288.92	-5.09	2.9132	0.9410	-2.7449	-0.2585	0.5390	0.1605	-0.0946	3.811	2030.5
2040.5	290.83	-5.40	2.9185	1.0331	-2.7156	-0.2746	0.5321	0.1795	-0.0927	3.858	2040.5
2050.5	292.73	-5.70	2.9235	1.1240	-2.6831	-0.2904	0.5247	0.1981	-0.0908	3.890	2050.5
2060.5	294.63	-6.00	2.9284	1.2136	-2.6475	-0.3059	0.5166	0.2164	-0.0887	3.907	2060.5
2070.5	296.52	-6.28	2.9331	1.3018	-2.6087	-0.3210	0.5080	0.2344	-0.0866	3.909	2070.5
2080.5	298.41	-6.56	2.9375	1.3884	-2.5669	-0.3357	0.4989	0.2520	-0.0844	3.896	2080.5
2090.5	300.29	-6.83	2.9418	1.4734	-2.5220	-0.3500	0.4892	0.2692	-0.0821	3.868	2090.5
2100.5	302.18	-7.10	2.9458	1.5566	-2.4743	-0.3639	0.4790	0.2861	-0.0796	3.826	2100.5
2110.5	304.05	-7.35	2.9496	1.6381	-2.4236	-0.3774	0.4683	0.3025	-0.0772	3.770	2110.5
2120.5	305.93	-7.60	2.9531	1.7177	-2.3702	-0.3904	0.4570	0.3186	-0.0746	3.701	2120.5
2130.5	307.81	-7.84	2.9564	1.7953	-2.3141	-0.4030	0.4453	0.3342	-0.0719	3.619	2130.5
2140.5	309.68	-8.06	2.9595	1.8709	-2.2553	-0.4152	0.4331	0.3494	-0.0692	3.526	2140.5
2150.5	311.55	-8.28	2.9624	1.9443	-2.1939	-0.4268	0.4205	0.3641	-0.0664	3.423	2150.5
2160.5	313.42	-8.50	2.9650	2.0155	-2.1300	-0.4380	0.4074	0.3784	-0.0636	3.310	2160.5
2170.5	315.29	-8.70	2.9674	2.0845	-2.0637	-0.4487	0.3939	0.3922	-0.0606	3.190	2170.5
2180.5	317.15	-8.89	2.9695	2.1510	-1.9951	-0.4589	0.3800	0.4056	-0.0577	3.064	2180.5
2190.5	319.02	-9.07	2.9714	2.2152	-1.9242	-0.4686	0.3656	0.4184	-0.0546	2.933	2190.5
2200.5	320.89	-9.25	2.9730	2.2768	-1.8512	-0.4777	0.3509	0.4308	-0.0515	2.801	2200.5
2210.5	322.75	-9.41	2.9744	2.3359	-1.7760	-0.4863	0.3358	0.4427	-0.0484	2.668	2210.5
2220.5	324.62	-9.56	2.9755	2.3923	-1.6989	-0.4943	0.3204	0.4540	-0.0452	2.539	2220.5
2230.5	326.49	-9.71	2.9764	2.4461	-1.6199	-0.5018	0.3046	0.4648	-0.0419	2.415	2230.5
2240.5	328.35	-9.84	2.9771	2.4971	-1.5390	-0.5087	0.2885	0.4751	-0.0386	2.300	2240.5
2250.5	330.22	-9.96	2.9774	2.5453	-1.4564	-0.5151	0.2720	0.4849	-0.0353	2.198	2250.5
2260.5	332.09	-10.07	2.9776	2.5907	-1.3722	-0.5209	0.2553	0.4941	-0.0319	2.112	2260.5
2270.5	333.96	-10.16	2.9774	2.6331	-1.2865	-0.5261	0.2383	0.5028	-0.0285	2.047	2270.5
2280.5	335.83	-10.27	2.9770	2.6726	-1.1993	-0.5307	0.2210	0.5109	-0.0250	2.006	2280.5
2290.5	337.71	-10.35	2.9764	2.7091	-1.1107	-0.5347	0.2034	0.5184	-0.0216	1.992	2290.5
2300.5	339.58	-10.42	2.9755	2.7426	-1.0209	-0.5381	0.1856	0.5254	-0.0181	2.004	2300.5
2310.5	341.46	-10.48	2.9744	2.7730	-0.9300	-0.5409	0.1676	0.5318	-0.0145	2.044	2310.5
2320.5	343.34	-10.53	2.9730	2.8003	-0.8380	-0.5431	0.1494	0.5375	-0.0110	2.108	2320.5
2330.5	345.22	-10.56	2.9714	2.8244	-0.7451	-0.5447	0.1310	0.5427	-0.0074	2.194	2330.5
2340.5	347.11	-10.59	2.9695	2.8453	-0.6513	-0.5457	0.1124	0.5473	-0.0039	2.297	2340.5
2350.5	348.99	-10.60	2.9673	2.8630	-0.5568	-0.5460	0.0936	0.5513	-0.0003	2.414	2350.5
2360.5	350.88	-10.61	2.9650	2.8775	-0.4617	-0.5458	0.0747	0.5546	0.0033	2.541	2360.5
2370.5	352.78	-10.60	2.9623	2.8887	-0.3660	-0.5449	0.0556	0.5574	0.0069	2.674	2370.5
2380.5	354.68	-10.58	2.9595	2.8966	-0.2700	-0.5434	0.0364	0.5595	0.0105	2.810	2380.5
2390.5	356.58	-10.55	2.9564	2.9012	-0.1736	-0.5412	0.0172	0.5610	0.0141	2.946	2390.5
2400.5	358.48	-10.51	2.9530	2.9025	-0.0770	-0.5385	-0.0022	0.5618	0.0177	3.078	2400.5
2410.5	0.39	-10.45	2.9495	2.9005	0.0196	-0.5351	-0.0216	0.5620	0.0213	3.206	2410.5
244											244

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

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

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

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

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

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

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

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

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

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

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

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

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

VESTA POSITION AND VELOCITY DATA

FOR THE YEARS 1969-2000

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

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

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

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

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

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

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

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

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1985 - 1986
244 6070.5 - 244 6790.5

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

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

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

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

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

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

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

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